10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , §90.691(a)(1)the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

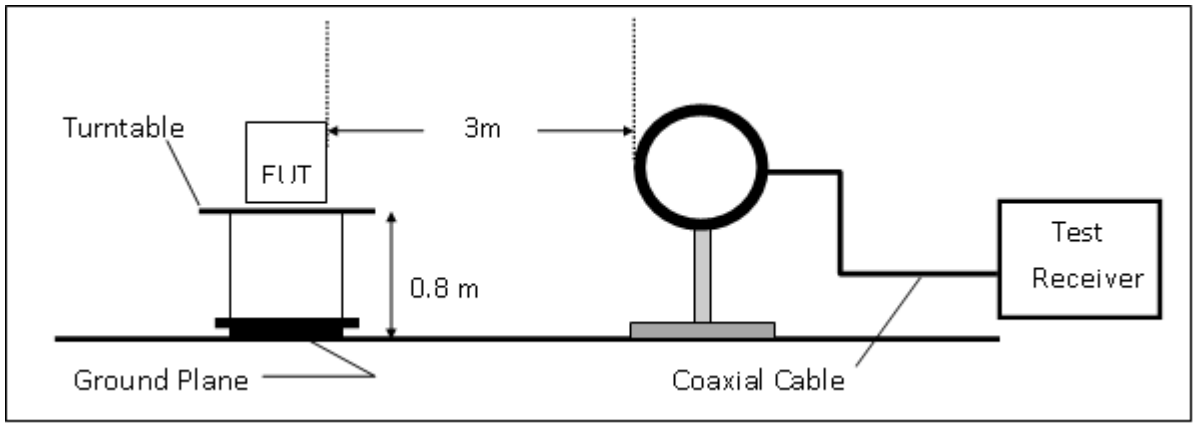
FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c) (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

10.2. EUT Setup

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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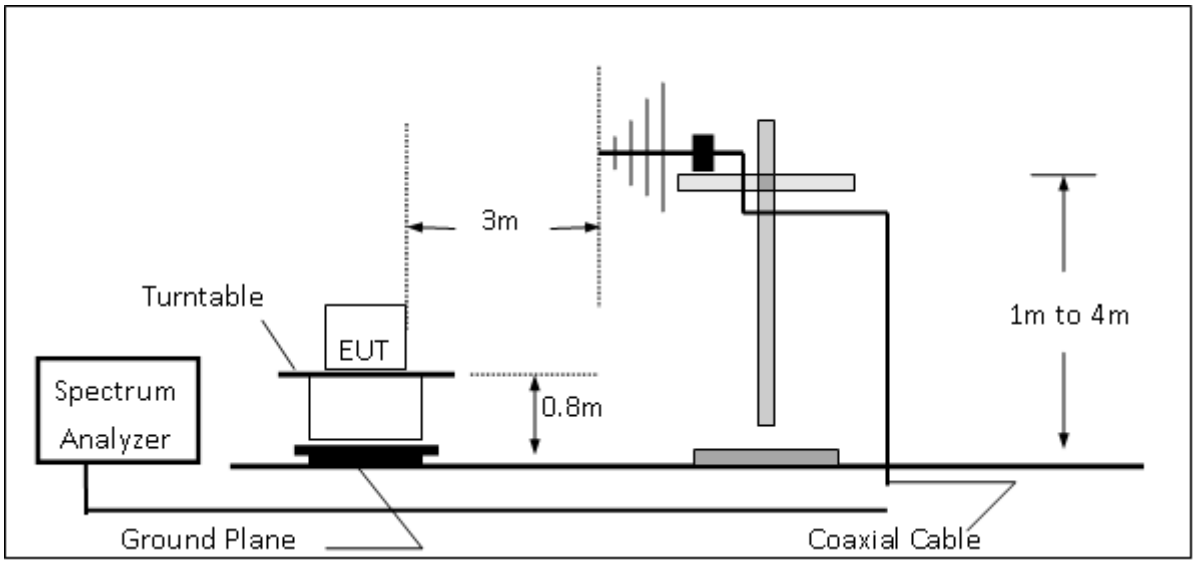
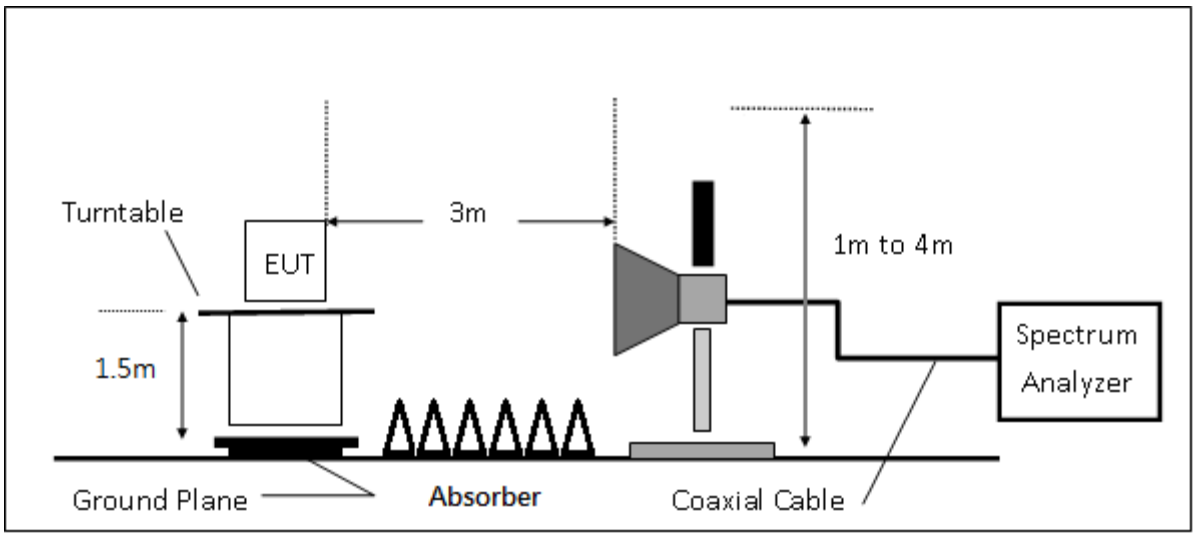
(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/24/2014	05/23/2015
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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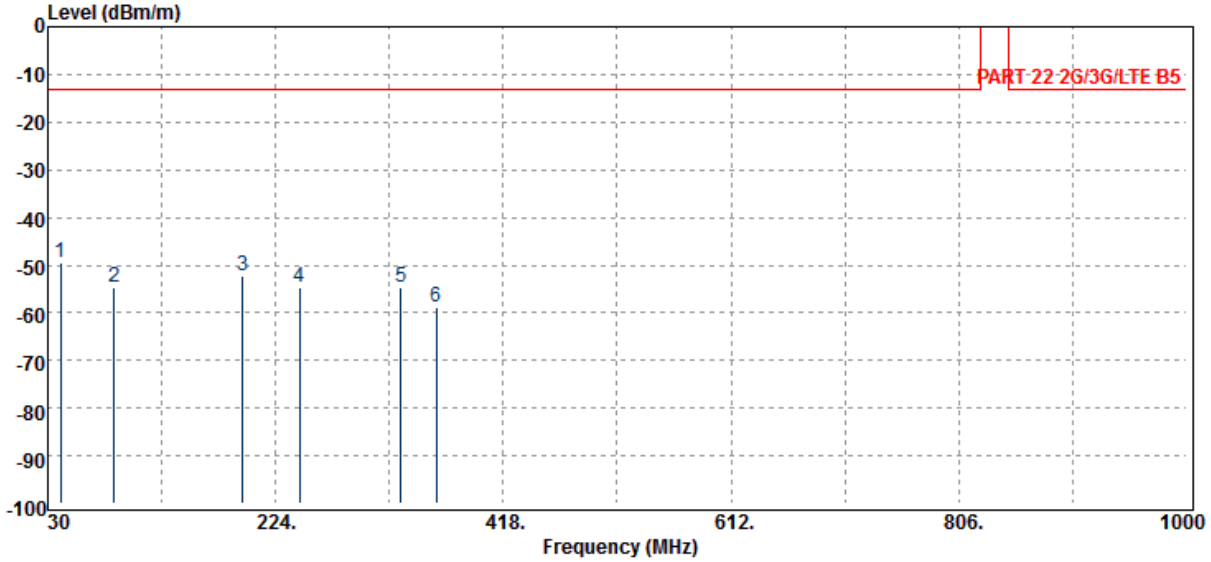
10.5. Measurement Result (Below 1GHz):

***Antenna Model No.: CVL-WLF-2V-BLK-12**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
40.67	S	-49.47	-35.92	-12.72	-0.84	-13.00	-36.47
86.26	S	-54.63	-52.28	-1.27	-1.08	-13.00	-41.63
195.87	S	-52.11	-53.56	2.98	-1.53	-13.00	-39.11
244.37	S	-54.83	-56.56	3.35	-1.62	-13.00	-41.83
330.70	S	-54.60	-56.41	3.71	-1.90	-13.00	-41.60
360.77	S	-58.80	-60.56	3.73	-1.96	-13.00	-45.80

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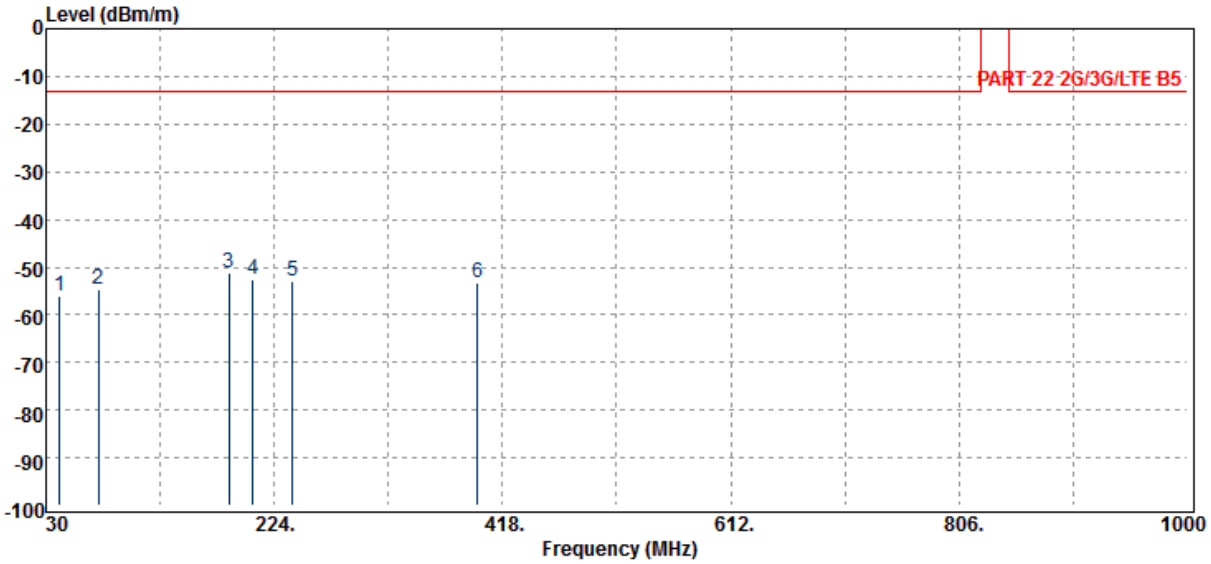
ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-55.95	-42.47	-12.63	-0.84	-13.00	-42.95
74.62	S	-54.53	-49.15	-4.35	-1.03	-13.00	-41.53
185.20	S	-51.16	-51.51	1.86	-1.51	-13.00	-38.16
205.57	S	-52.44	-54.40	3.50	-1.54	-13.00	-39.44
239.52	S	-52.81	-54.49	3.29	-1.61	-13.00	-39.81
396.66	S	-53.27	-54.95	3.63	-1.95	-13.00	-40.27

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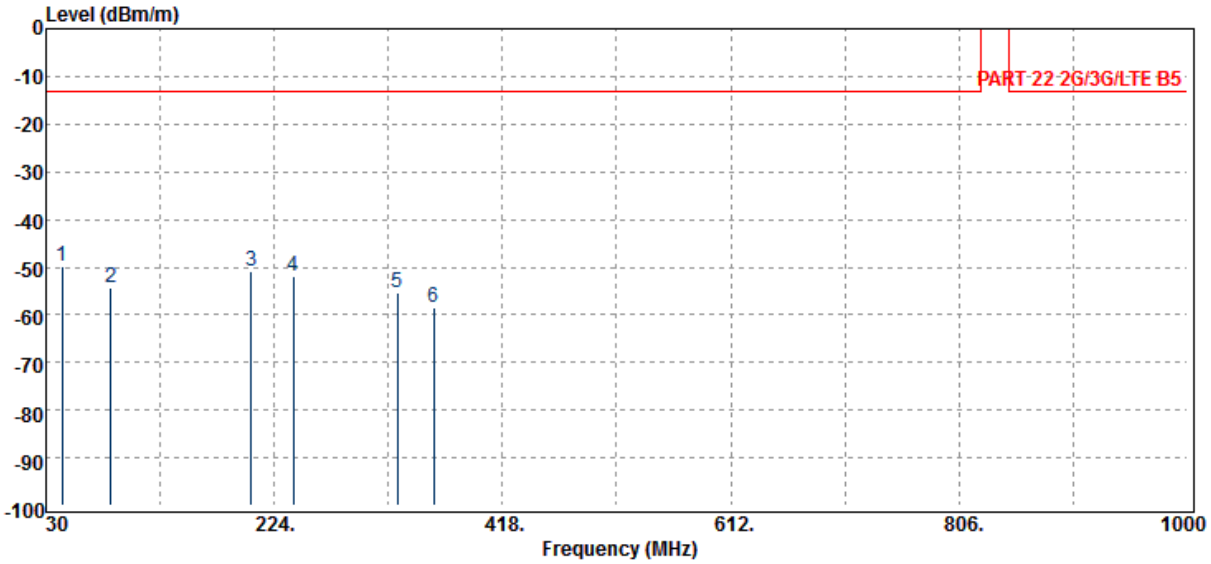
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-49.98	-36.65	-12.47	-0.86	-13.00	-36.98
85.29	S	-54.31	-51.74	-1.50	-1.07	-13.00	-41.31
204.60	S	-50.93	-52.83	3.44	-1.54	-13.00	-37.93
240.49	S	-51.96	-53.64	3.29	-1.61	-13.00	-38.96
328.76	S	-55.51	-57.32	3.70	-1.89	-13.00	-42.51

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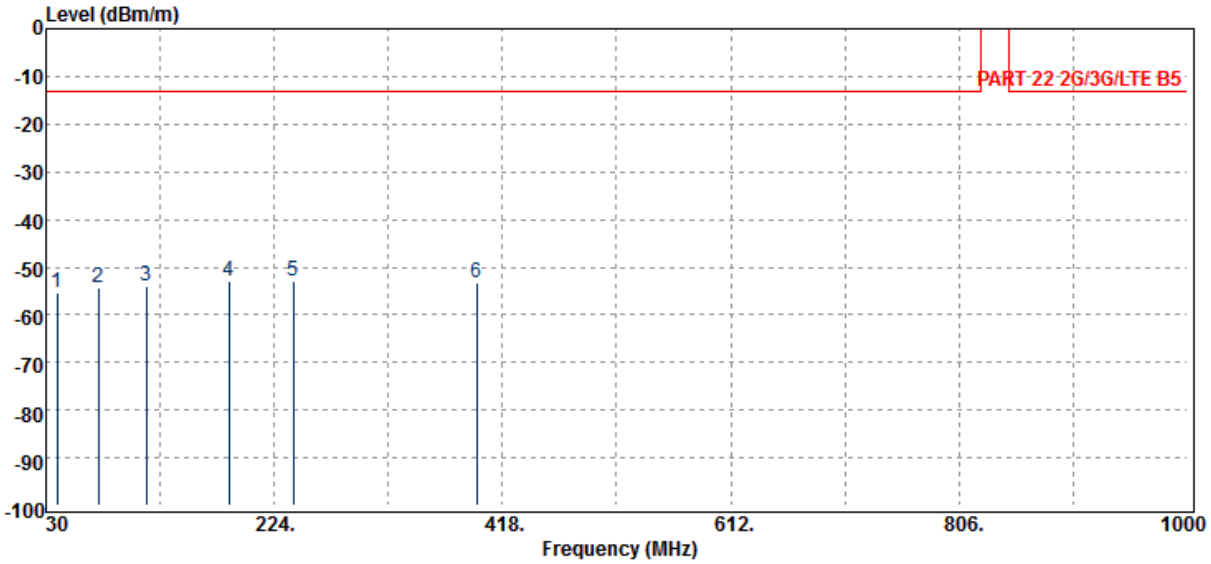
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-55.32	-41.67	-12.83	-0.83	-13.00	-42.32
74.62	S	-54.40	-49.01	-4.35	-1.03	-13.00	-41.40
115.36	S	-53.92	-50.42	-2.32	-1.19	-13.00	-40.92
185.20	S	-53.00	-53.36	1.86	-1.51	-13.00	-40.00
240.49	S	-53.10	-54.79	3.29	-1.61	-13.00	-40.10
395.69	S	-53.29	-54.98	3.63	-1.95	-13.00	-40.29

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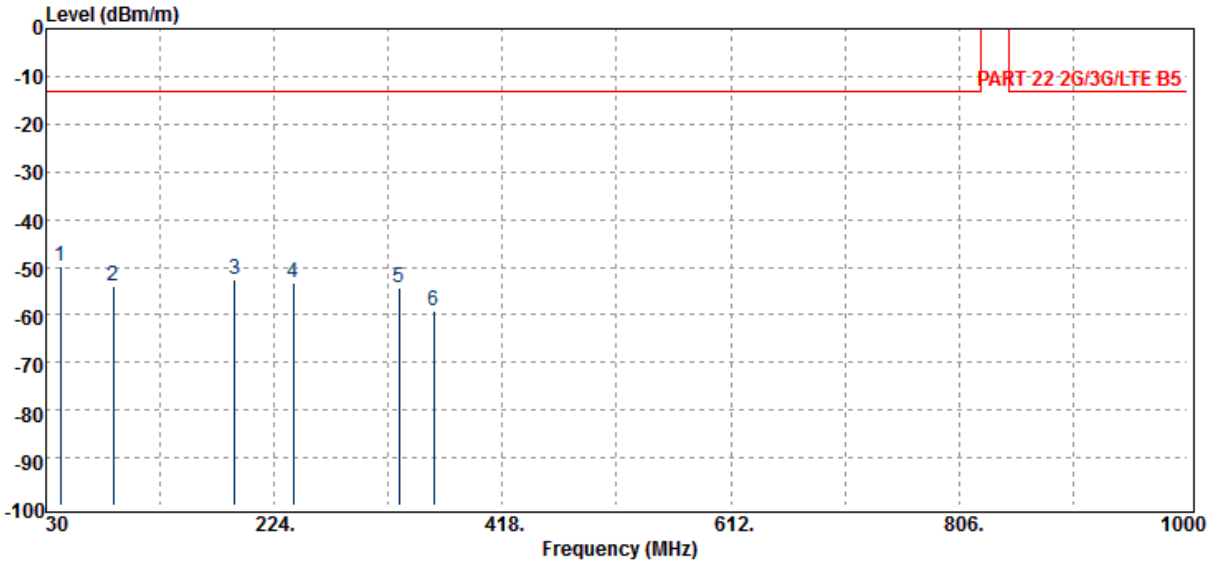
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.91	-36.51	-12.55	-0.85	-13.00	-36.91
87.23	S	-54.12	-51.99	-1.05	-1.08	-13.00	-41.12
190.05	S	-52.43	-53.57	2.66	-1.52	-13.00	-39.43
240.49	S	-53.26	-54.94	3.29	-1.61	-13.00	-40.26
329.73	S	-54.40	-56.21	3.71	-1.90	-13.00	-41.40
359.80	S	-59.01	-60.78	3.73	-1.96	-13.00	-46.01

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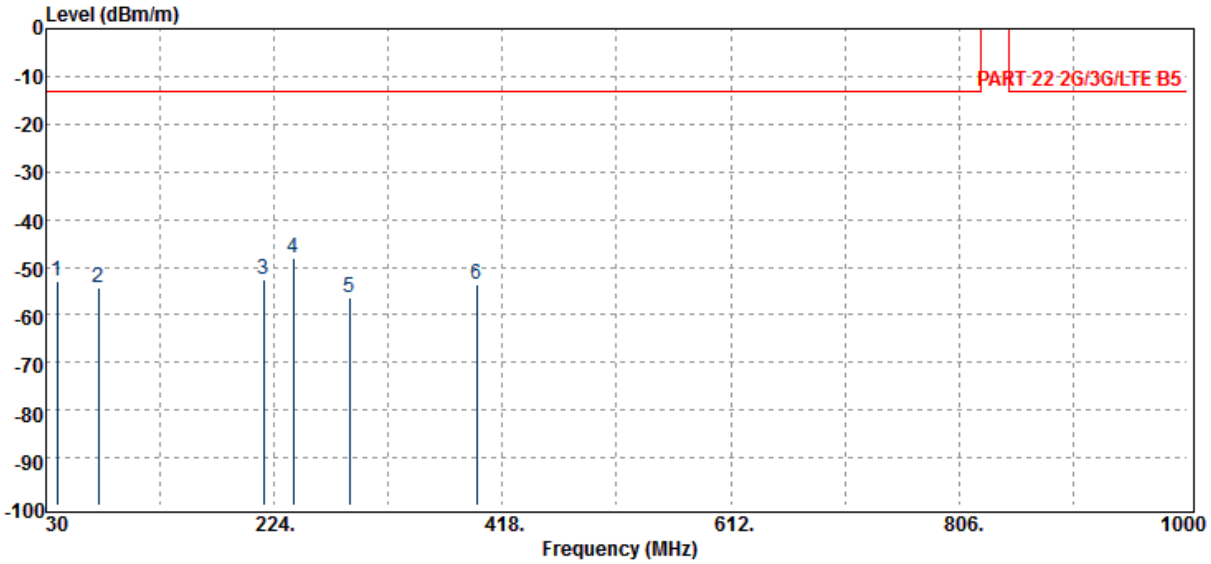
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-52.99	-39.34	-12.83	-0.83	-13.00	-39.99
74.62	S	-54.44	-49.05	-4.35	-1.03	-13.00	-41.44
215.27	S	-52.47	-54.43	3.51	-1.56	-13.00	-39.47
240.49	S	-48.09	-49.77	3.29	-1.61	-13.00	-35.09
288.02	S	-56.46	-58.12	3.41	-1.74	-13.00	-43.46
395.69	S	-53.50	-55.19	3.63	-1.95	-13.00	-40.50

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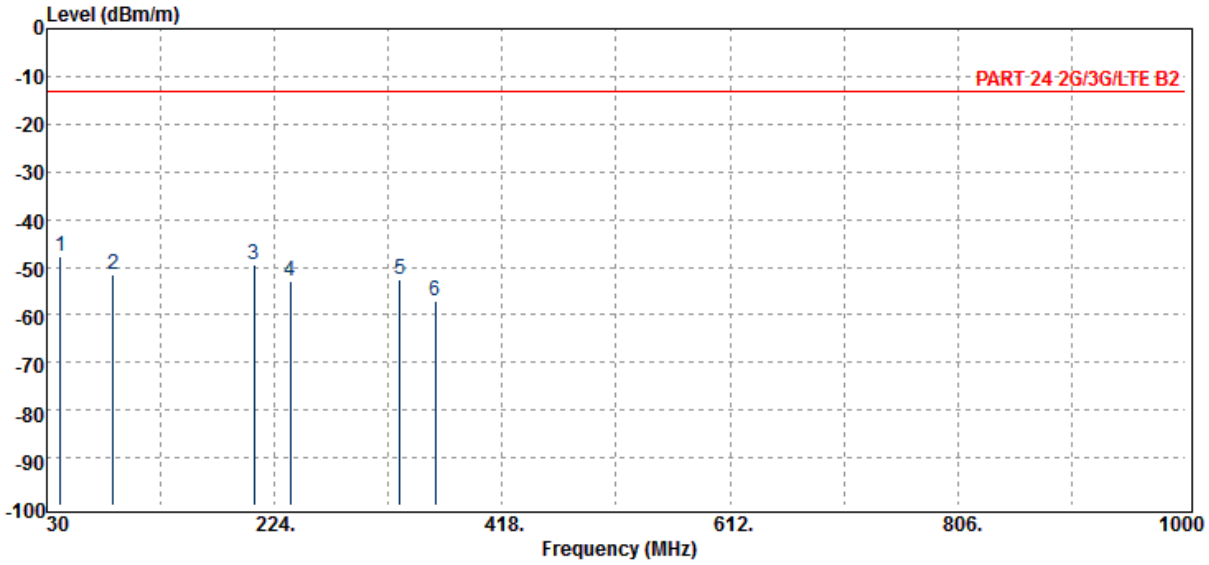
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-47.78	-36.46	-10.48	-0.84	-13.00	-34.78
86.26	S	-51.71	-51.51	0.88	-1.08	-13.00	-38.71
206.54	S	-49.59	-53.74	5.70	-1.54	-13.00	-36.59
237.58	S	-53.10	-56.95	5.44	-1.60	-13.00	-40.10
330.70	S	-52.52	-56.48	5.86	-1.90	-13.00	-39.52
360.77	S	-57.23	-61.15	5.88	-1.96	-13.00	-44.23

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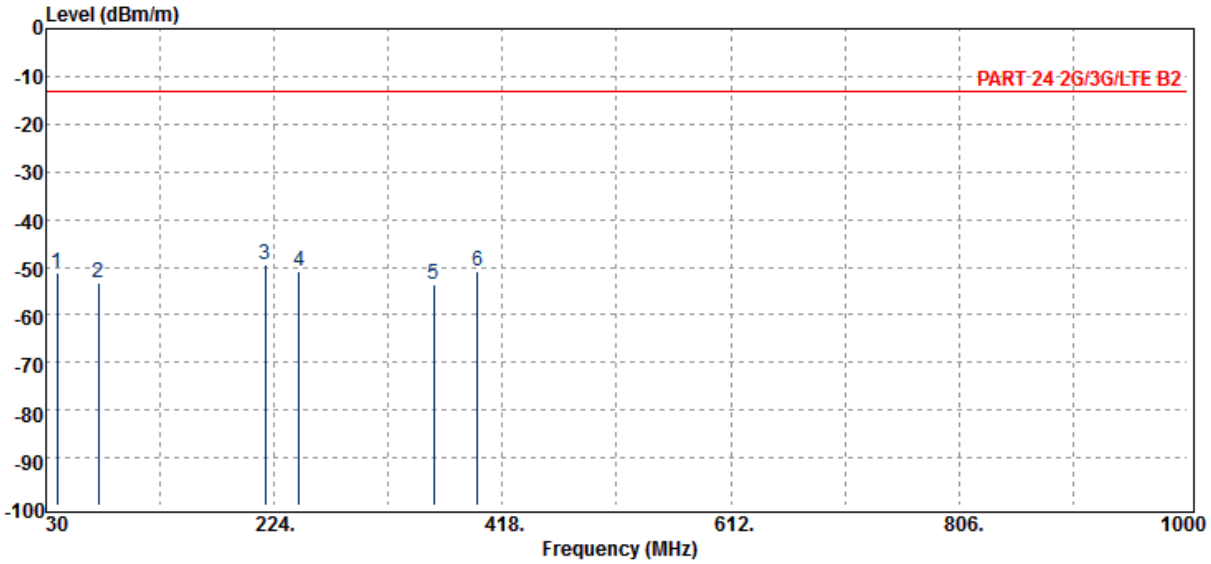
ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-51.29	-39.79	-10.68	-0.83	-13.00	-38.29
74.62	S	-53.44	-50.20	-2.20	-1.03	-13.00	-40.44
216.24	S	-49.39	-53.45	5.63	-1.56	-13.00	-36.39
245.34	S	-51.02	-54.92	5.52	-1.62	-13.00	-38.02
359.80	S	-53.65	-57.57	5.88	-1.96	-13.00	-40.65
396.66	S	-50.98	-54.81	5.78	-1.95	-13.00	-37.98

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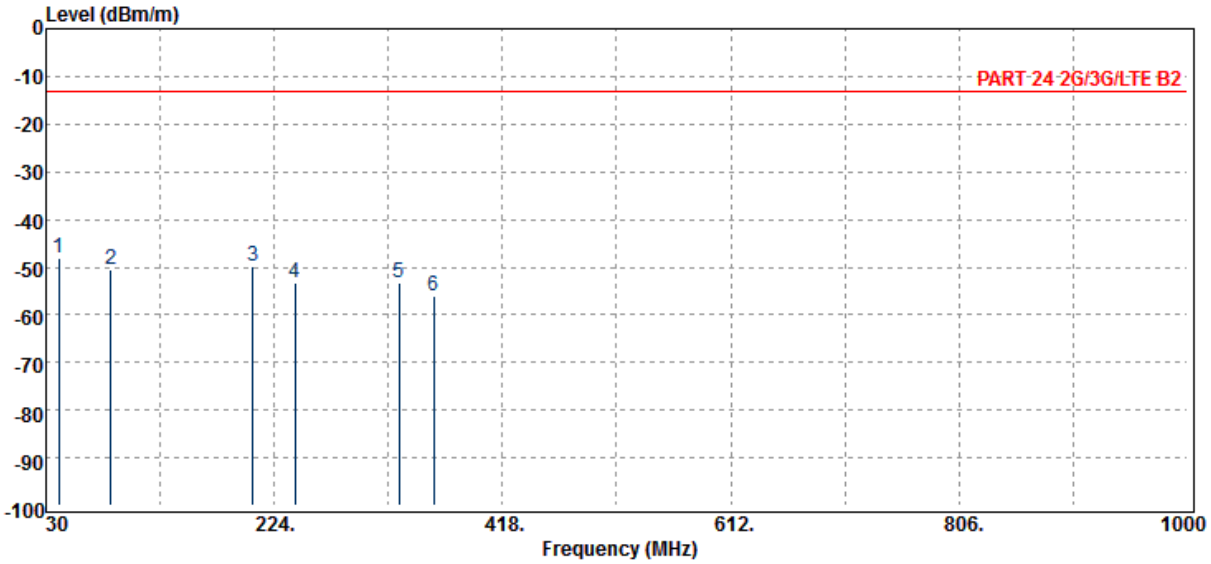
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-48.21	-36.80	-10.57	-0.84	-13.00	-35.21
85.29	S	-50.42	-50.00	0.65	-1.07	-13.00	-37.42
205.57	S	-49.70	-53.80	5.65	-1.54	-13.00	-36.70
241.46	S	-53.17	-57.01	5.46	-1.61	-13.00	-40.17
329.73	S	-53.34	-57.30	5.86	-1.90	-13.00	-40.34
359.80	S	-56.10	-60.02	5.88	-1.96	-13.00	-43.10

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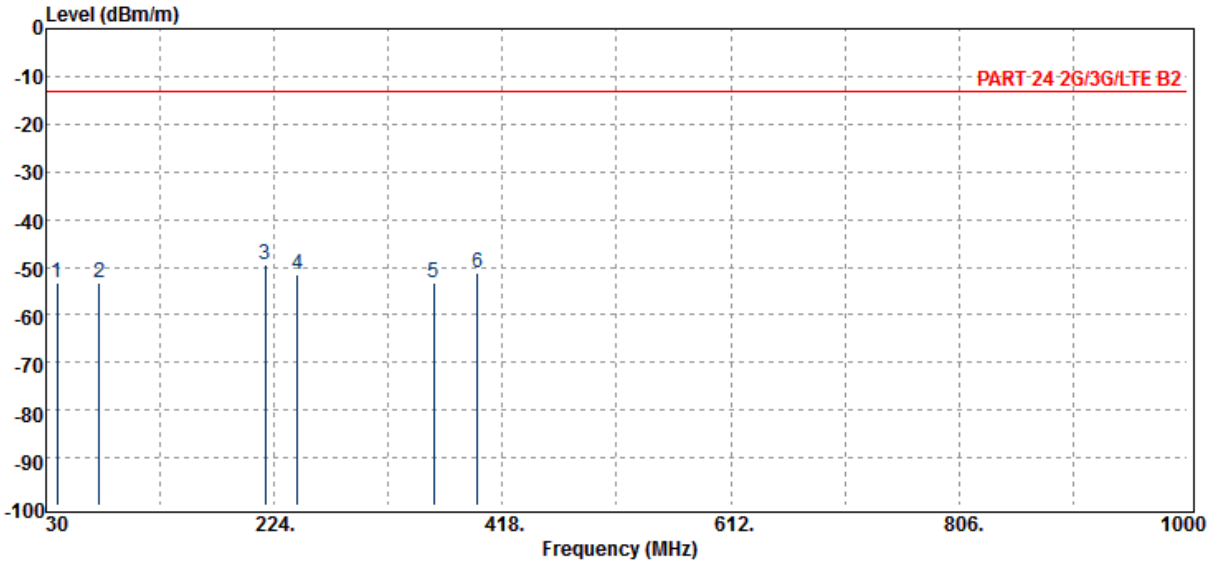
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-53.25	-41.74	-10.68	-0.83	-13.00	-40.25
75.59	S	-53.35	-50.41	-1.91	-1.03	-13.00	-40.35
216.24	S	-49.56	-53.63	5.63	-1.56	-13.00	-36.56
243.40	S	-51.68	-55.55	5.49	-1.62	-13.00	-38.68
359.80	S	-53.35	-57.27	5.88	-1.96	-13.00	-40.35
396.66	S	-51.30	-55.13	5.78	-1.95	-13.00	-38.30

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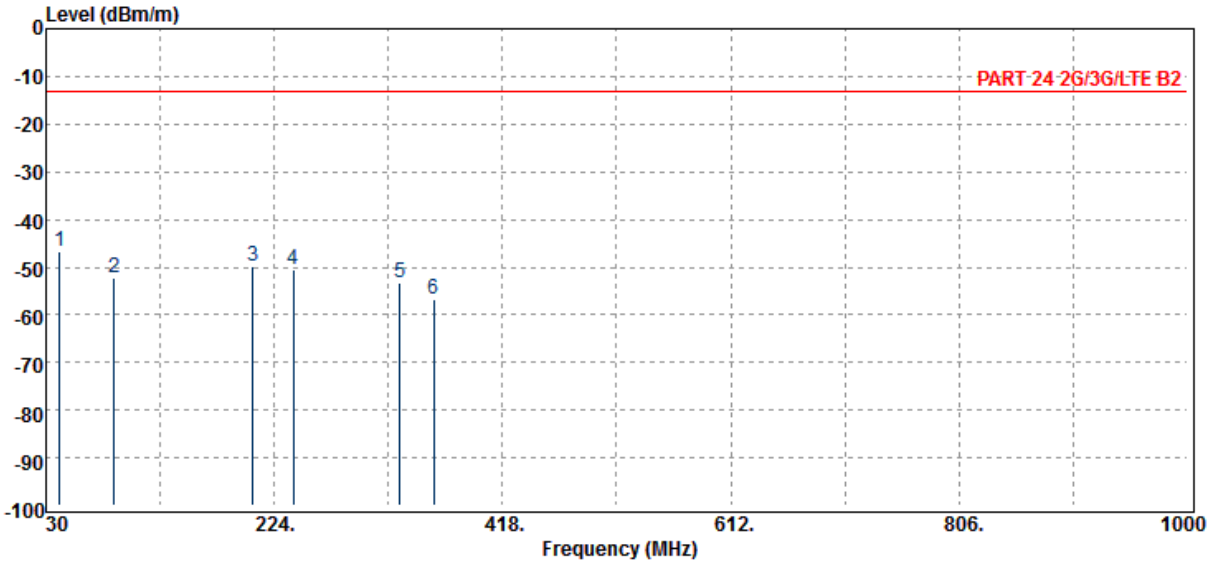
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-46.80	-35.47	-10.48	-0.84	-13.00	-33.80
88.20	S	-52.13	-52.37	1.32	-1.08	-13.00	-39.13
205.57	S	-49.82	-53.92	5.65	-1.54	-13.00	-36.82
240.49	S	-50.61	-54.45	5.44	-1.61	-13.00	-37.61
330.70	S	-53.32	-57.28	5.86	-1.90	-13.00	-40.32
359.80	S	-56.71	-60.63	5.88	-1.96	-13.00	-43.71

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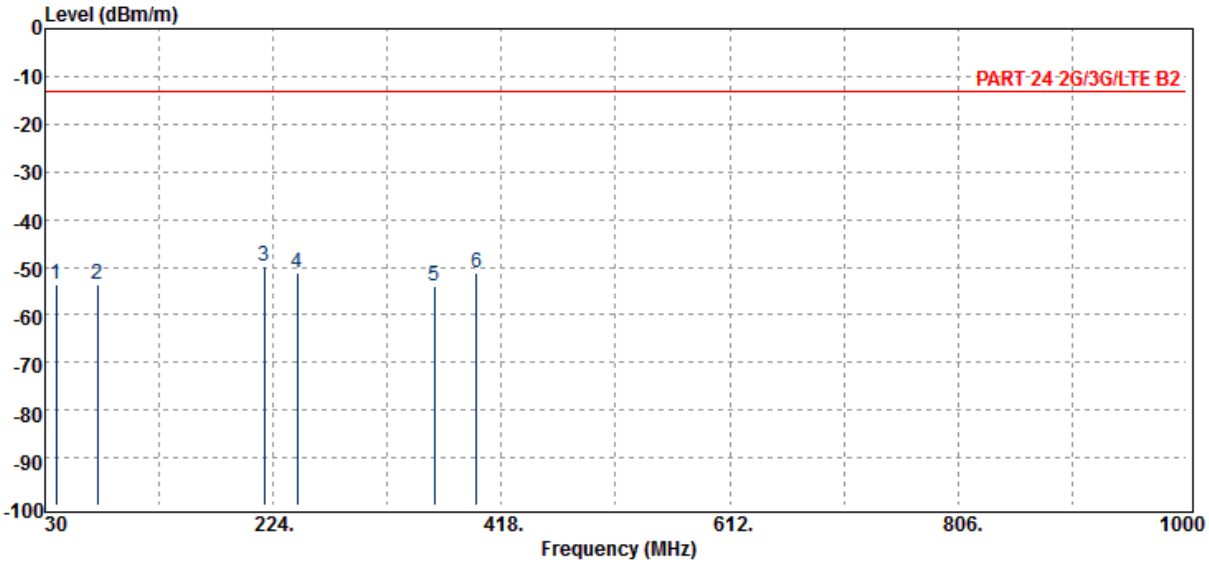
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-53.56	-42.05	-10.68	-0.83	-13.00	-40.56
74.62	S	-53.57	-50.33	-2.20	-1.03	-13.00	-40.57
216.24	S	-49.76	-53.82	5.63	-1.56	-13.00	-36.76
244.37	S	-51.34	-55.22	5.50	-1.62	-13.00	-38.34
360.77	S	-54.05	-57.97	5.88	-1.96	-13.00	-41.05
396.66	S	-51.16	-55.00	5.78	-1.95	-13.00	-38.16

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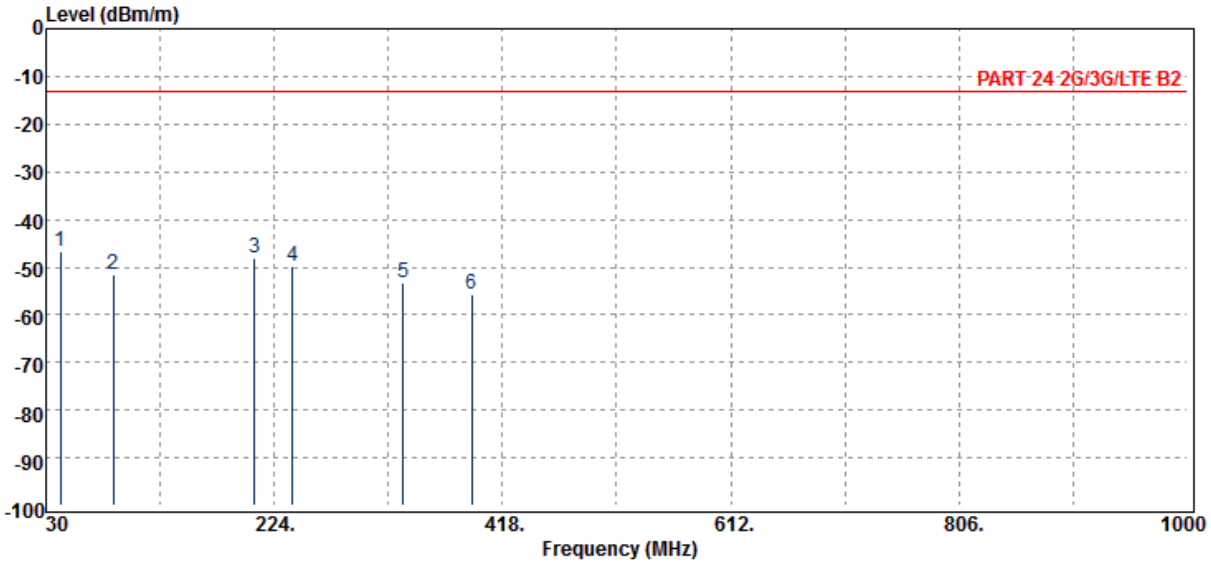
Radiated Spurious Emission Measurement Result: HSDPA II Mode

ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-46.70	-35.45	-10.40	-0.85	-13.00	-33.70
87.23	S	-51.49	-51.50	1.10	-1.08	-13.00	-38.49
207.51	S	-47.96	-52.16	5.75	-1.55	-13.00	-34.96
239.52	S	-49.71	-53.54	5.44	-1.61	-13.00	-36.71
333.61	S	-53.12	-57.08	5.87	-1.91	-13.00	-40.12
391.81	S	-55.67	-59.51	5.79	-1.95	-13.00	-42.67

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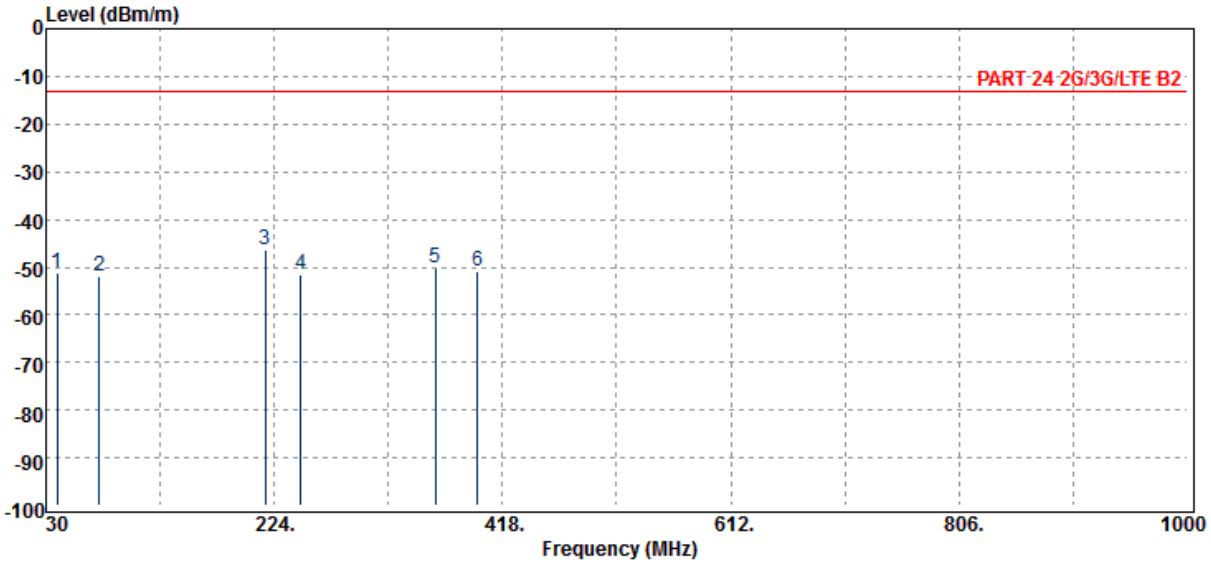
ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-51.17	-39.67	-10.68	-0.83	-13.00	-38.17
75.59	S	-51.82	-48.88	-1.91	-1.03	-13.00	-38.82
216.24	S	-46.49	-50.56	5.63	-1.56	-13.00	-33.49
246.31	S	-51.53	-55.44	5.53	-1.63	-13.00	-38.53
360.77	S	-50.03	-53.95	5.88	-1.96	-13.00	-37.03
396.66	S	-50.70	-54.53	5.78	-1.95	-13.00	-37.70

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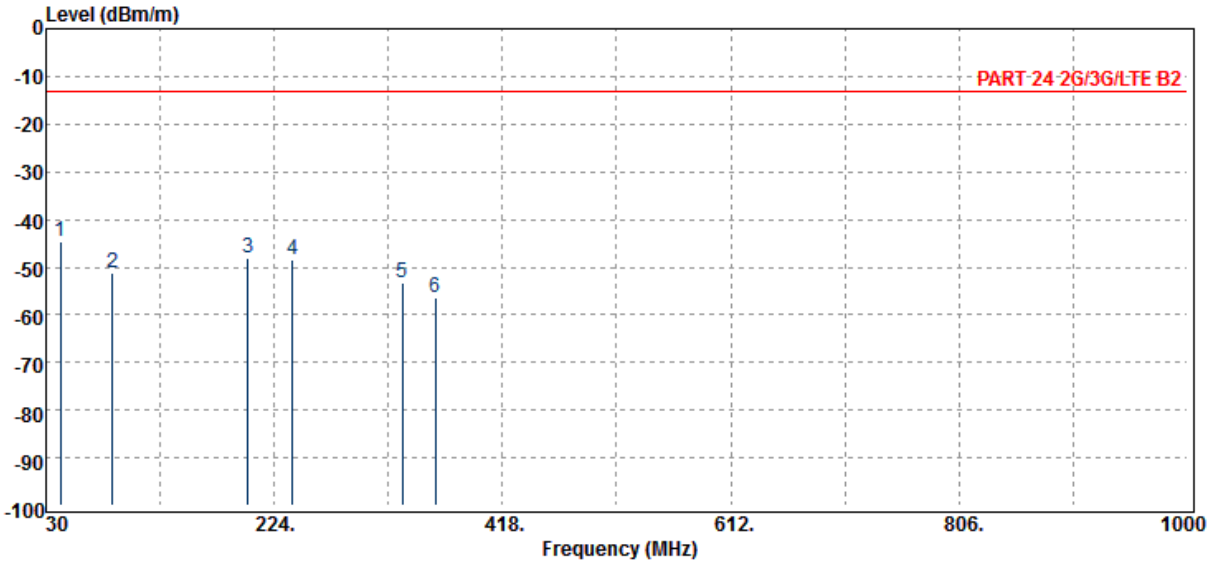
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-44.75	-33.50	-10.40	-0.85	-13.00	-31.75
86.26	S	-51.38	-51.18	0.88	-1.08	-13.00	-38.38
201.69	S	-47.99	-51.89	5.44	-1.54	-13.00	-34.99
239.52	S	-48.47	-52.30	5.44	-1.61	-13.00	-35.47
332.64	S	-53.24	-57.20	5.87	-1.91	-13.00	-40.24
360.77	S	-56.31	-60.23	5.88	-1.96	-13.00	-43.31

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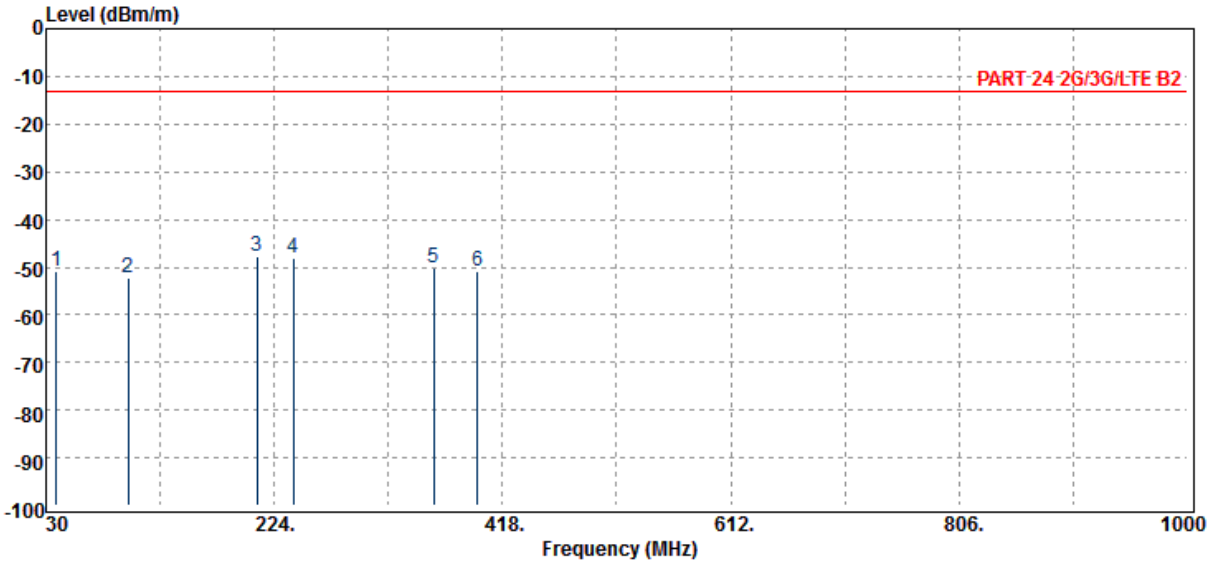
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
38.73	S	-51.01	-39.36	-10.84	-0.82	-13.00	-38.01
99.84	S	-52.40	-51.93	0.65	-1.12	-13.00	-39.40
209.45	S	-47.71	-52.01	5.85	-1.55	-13.00	-34.71
240.49	S	-48.05	-51.88	5.44	-1.61	-13.00	-35.05
359.80	S	-50.05	-53.97	5.88	-1.96	-13.00	-37.05
396.66	S	-50.96	-54.79	5.78	-1.95	-13.00	-37.96

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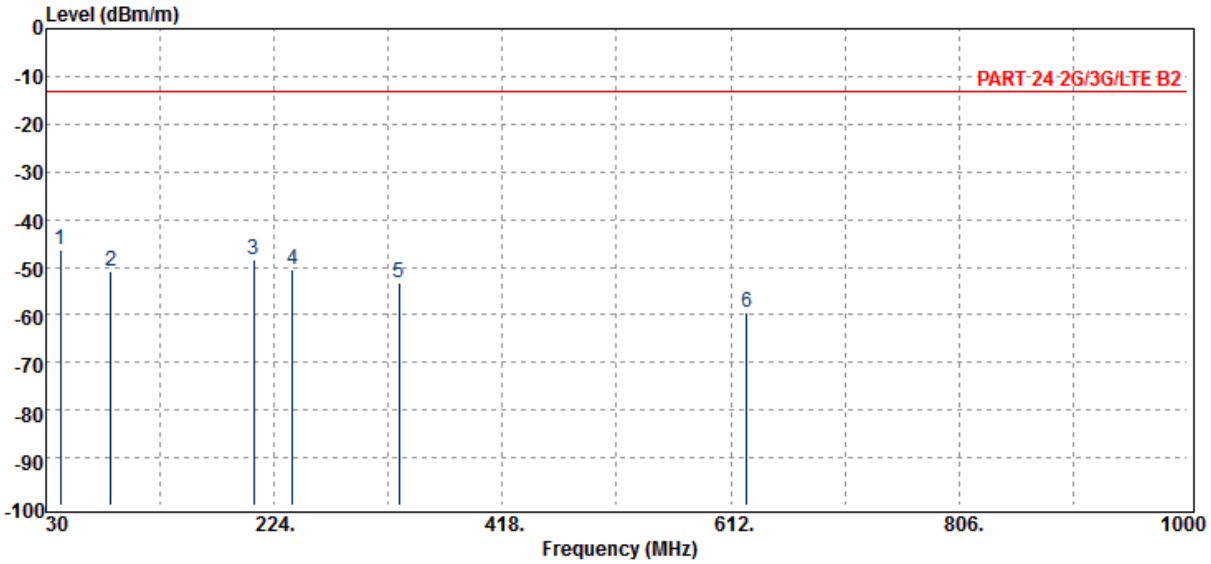
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-46.38	-35.12	-10.40	-0.85	-13.00	-33.38
85.29	S	-50.90	-50.49	0.65	-1.07	-13.00	-37.90
206.54	S	-48.47	-52.62	5.70	-1.54	-13.00	-35.47
239.52	S	-50.46	-54.29	5.44	-1.61	-13.00	-37.46
329.73	S	-53.14	-57.10	5.86	-1.90	-13.00	-40.14
625.58	S	-59.47	-62.46	5.69	-2.70	-13.00	-46.47

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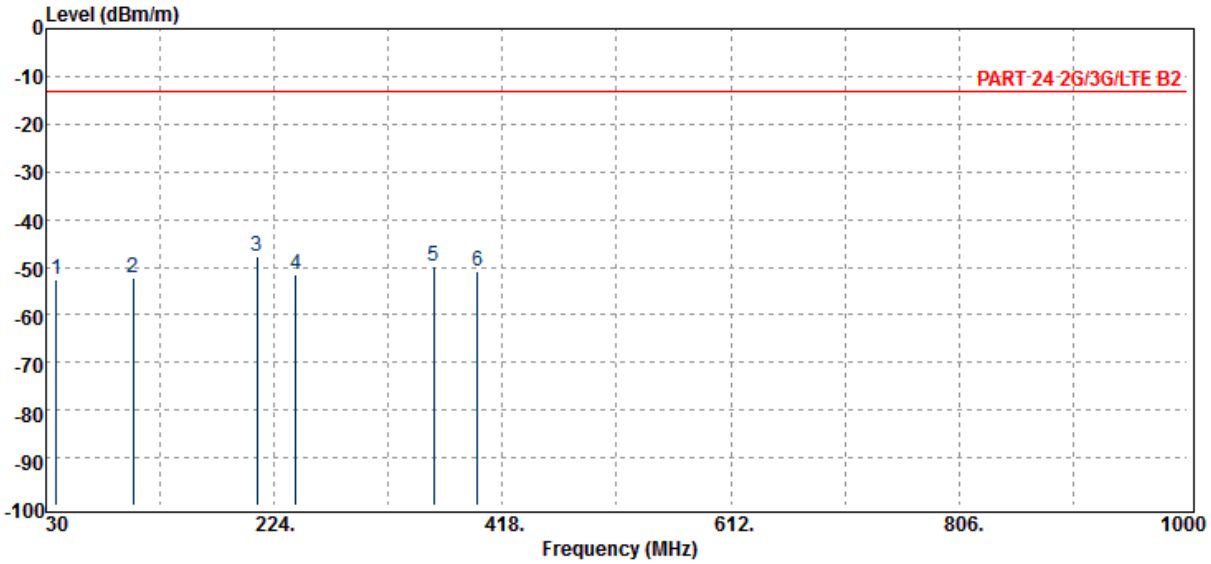
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
38.73	S	-52.47	-40.82	-10.84	-0.82	-13.00	-39.47
103.72	S	-52.18	-51.38	0.33	-1.13	-13.00	-39.18
209.45	S	-47.90	-52.20	5.85	-1.55	-13.00	-34.90
242.43	S	-51.60	-55.45	5.47	-1.62	-13.00	-38.60
359.80	S	-49.95	-53.87	5.88	-1.96	-13.00	-36.95
396.66	S	-51.02	-54.85	5.78	-1.95	-13.00	-38.02

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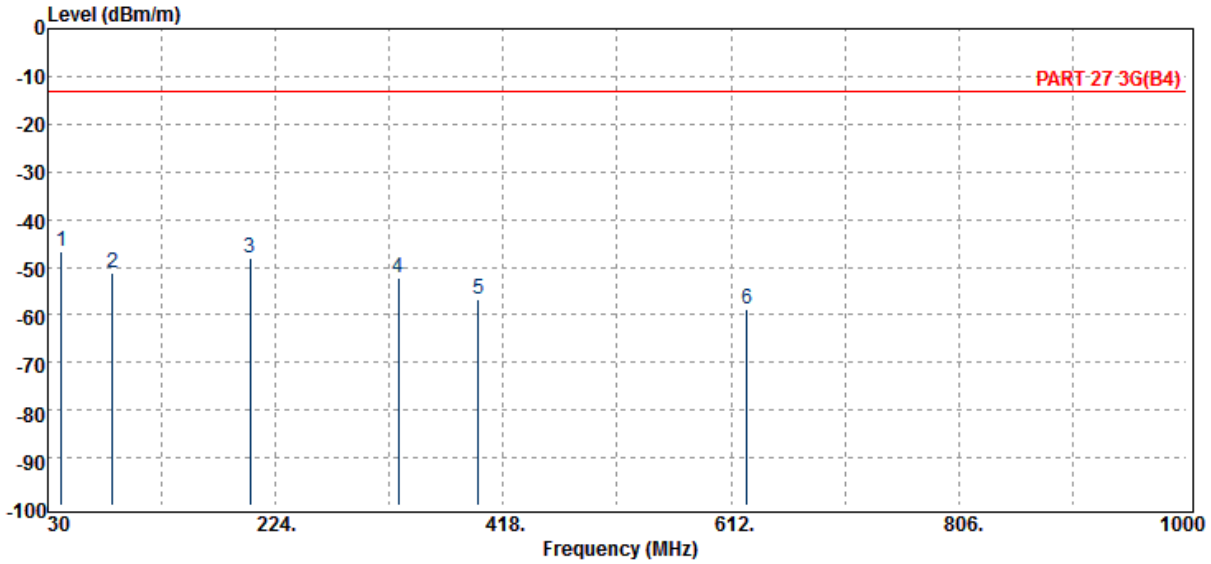
Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-46.76	-35.43	-10.48	-0.84	-13.00	-33.76
85.29	S	-51.08	-50.67	0.65	-1.07	-13.00	-38.08
202.66	S	-48.12	-52.08	5.49	-1.54	-13.00	-35.12
328.76	S	-52.34	-56.30	5.85	-1.89	-13.00	-39.34
396.66	S	-56.58	-60.42	5.78	-1.95	-13.00	-43.58
625.58	S	-58.81	-61.81	5.69	-2.70	-13.00	-45.81

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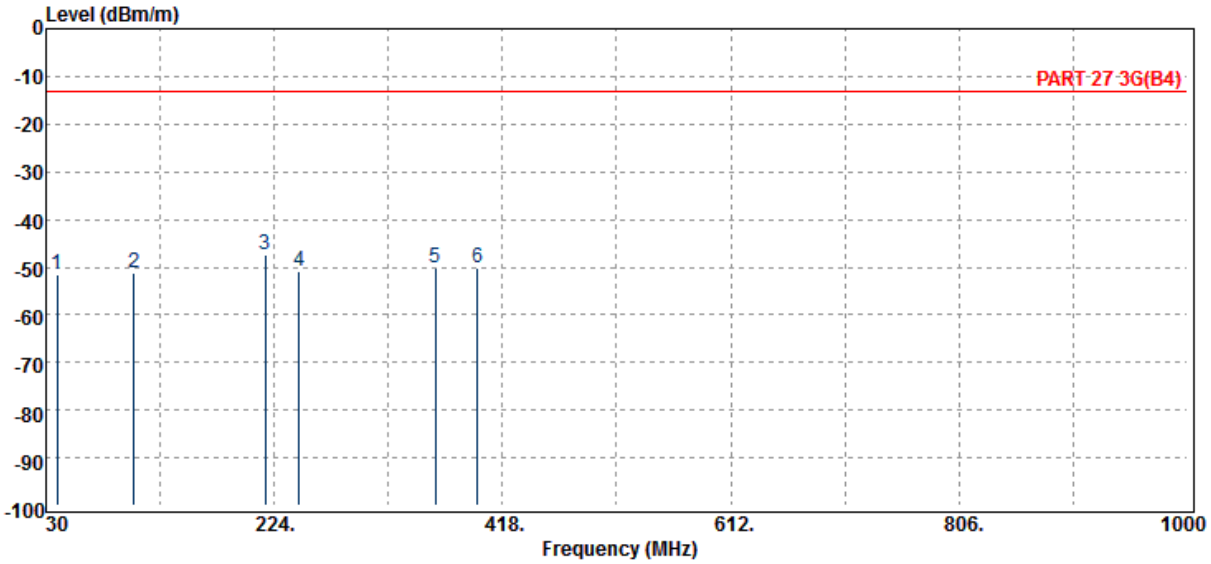
ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-51.39	-39.89	-10.68	-0.83	-13.00	-38.39
104.69	S	-51.09	-50.22	0.26	-1.14	-13.00	-38.09
216.24	S	-47.31	-51.38	5.63	-1.56	-13.00	-34.31
245.34	S	-50.93	-54.82	5.52	-1.62	-13.00	-37.93
360.77	S	-50.08	-54.00	5.88	-1.96	-13.00	-37.08
396.66	S	-50.34	-54.17	5.78	-1.95	-13.00	-37.34

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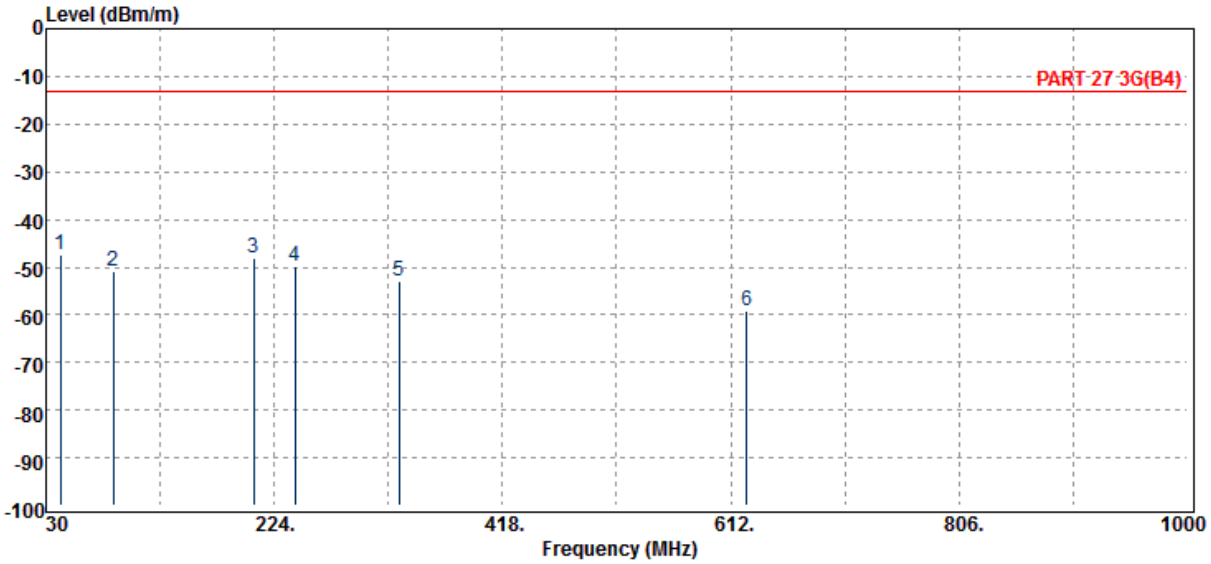
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-47.28	-36.02	-10.40	-0.85	-13.00	-34.28
87.23	S	-50.83	-50.84	1.10	-1.08	-13.00	-37.83
206.54	S	-48.25	-52.40	5.70	-1.54	-13.00	-35.25
241.46	S	-49.82	-53.66	5.46	-1.61	-13.00	-36.82
329.73	S	-53.01	-56.97	5.86	-1.90	-13.00	-40.01
625.58	S	-59.23	-62.22	5.69	-2.70	-13.00	-46.23

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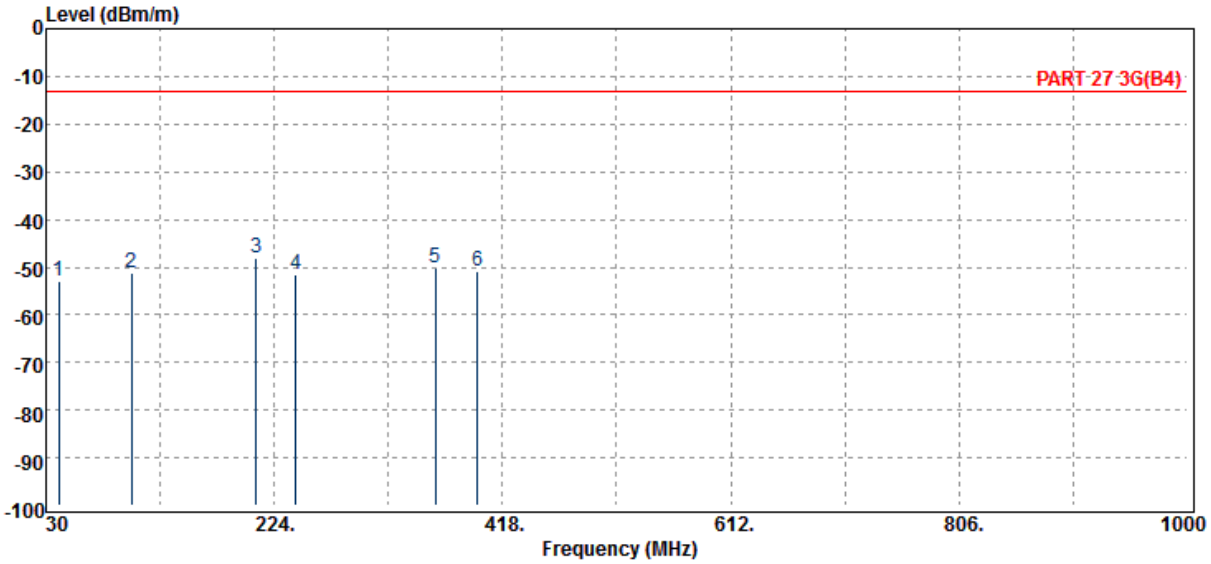
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-52.97	-41.57	-10.57	-0.84	-13.00	-39.97
102.75	S	-51.35	-50.63	0.41	-1.13	-13.00	-38.35
208.48	S	-48.20	-52.45	5.80	-1.55	-13.00	-35.20
242.43	S	-51.42	-55.27	5.47	-1.62	-13.00	-38.42
360.77	S	-50.09	-54.00	5.88	-1.96	-13.00	-37.09
396.66	S	-51.03	-54.86	5.78	-1.95	-13.00	-38.03

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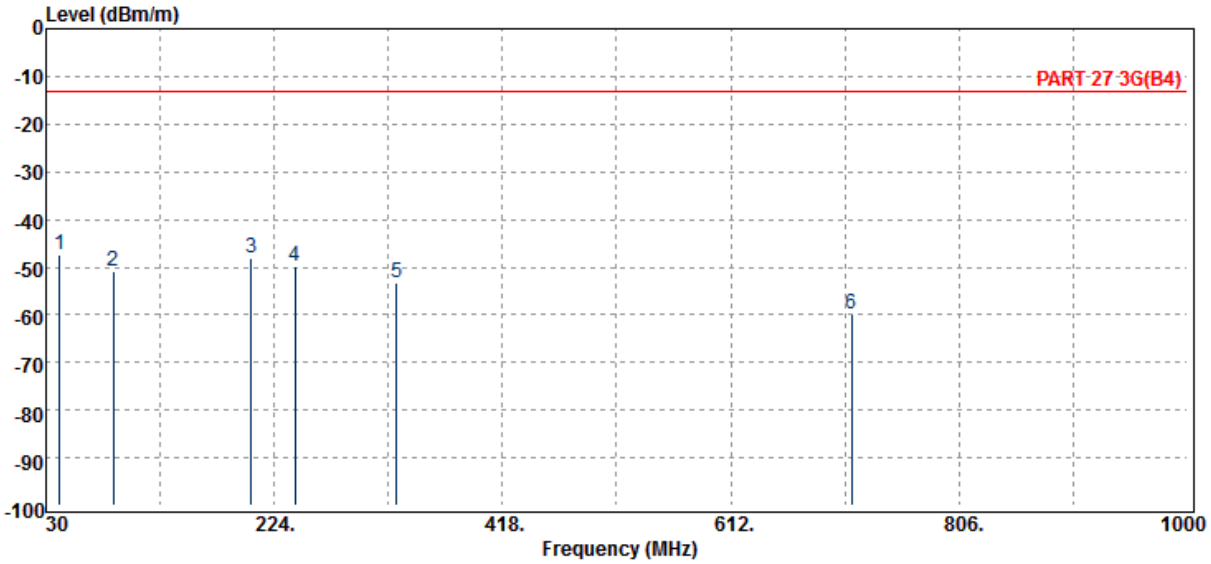
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-47.42	-36.09	-10.48	-0.84	-13.00	-34.42
87.23	S	-50.93	-50.95	1.10	-1.08	-13.00	-37.93
204.60	S	-48.21	-52.27	5.59	-1.54	-13.00	-35.21
241.46	S	-49.75	-53.59	5.46	-1.61	-13.00	-36.75
327.79	S	-53.25	-57.21	5.85	-1.89	-13.00	-40.25
714.82	S	-59.91	-62.80	5.50	-2.61	-13.00	-46.91

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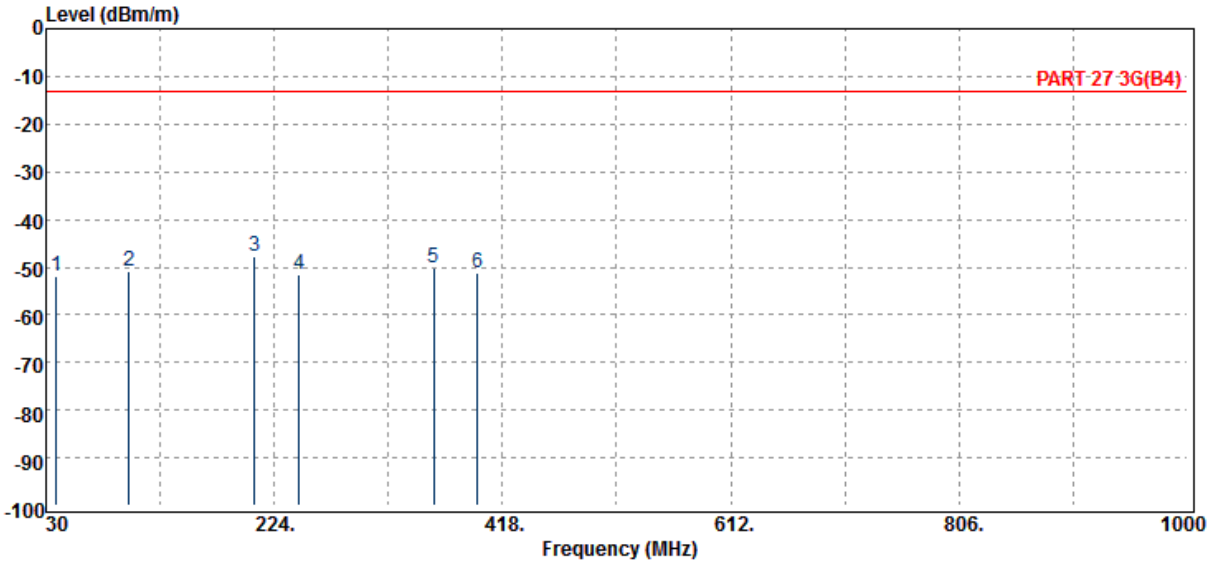
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
38.73	S	-52.00	-40.34	-10.84	-0.82	-13.00	-39.00
100.81	S	-50.89	-50.34	0.56	-1.12	-13.00	-37.89
207.51	S	-47.83	-52.03	5.75	-1.55	-13.00	-34.83
245.34	S	-51.57	-55.47	5.52	-1.62	-13.00	-38.57
359.80	S	-50.25	-54.17	5.88	-1.96	-13.00	-37.25
396.66	S	-51.25	-55.08	5.78	-1.95	-13.00	-38.25

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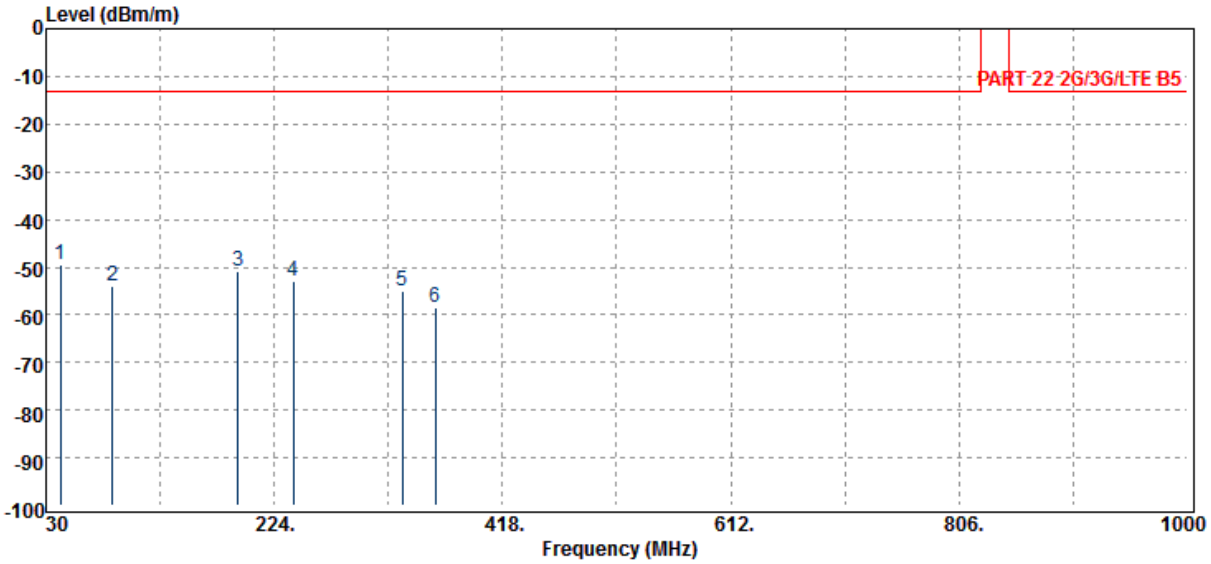
Radiated Spurious Emission Measurement Result: HSDPA V Mode

ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.43	-36.03	-12.55	-0.85	-13.00	-36.43
86.26	S	-53.85	-51.50	-1.27	-1.08	-13.00	-40.85
192.96	S	-50.98	-52.28	2.82	-1.52	-13.00	-37.98
240.49	S	-53.04	-54.72	3.29	-1.61	-13.00	-40.04
332.64	S	-55.08	-56.89	3.72	-1.91	-13.00	-42.08
360.77	S	-58.48	-60.25	3.73	-1.96	-13.00	-45.48

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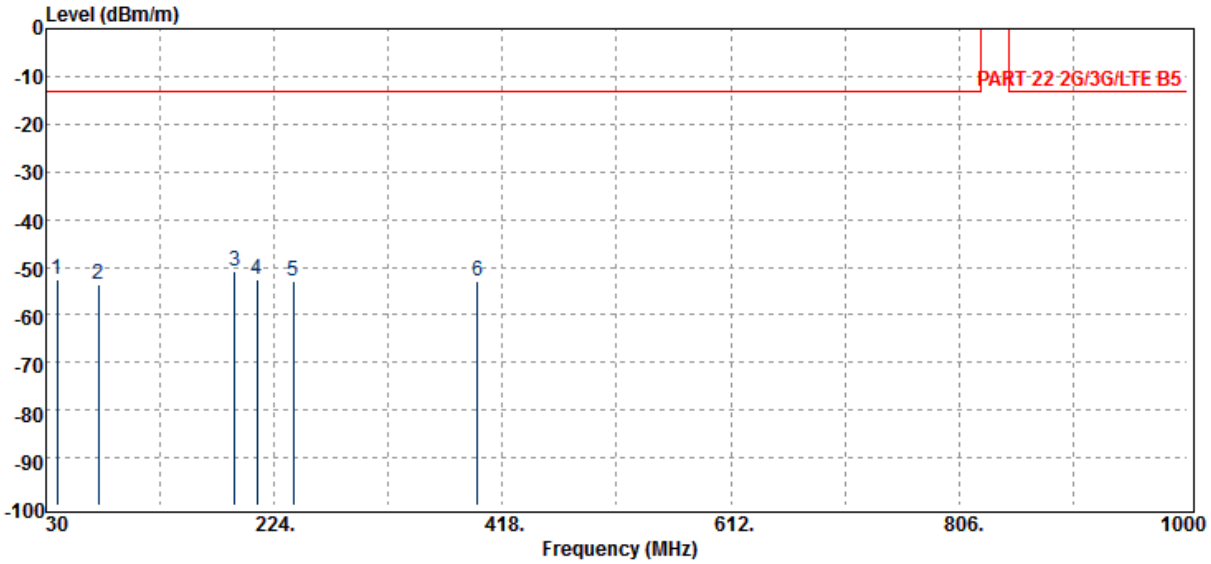
ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-52.75	-39.10	-12.83	-0.83	-13.00	-39.75
74.62	S	-53.75	-48.37	-4.35	-1.03	-13.00	-40.75
190.05	S	-50.87	-52.01	2.66	-1.52	-13.00	-37.87
209.45	S	-52.72	-54.87	3.70	-1.55	-13.00	-39.72
240.49	S	-53.02	-54.70	3.29	-1.61	-13.00	-40.02
396.66	S	-53.02	-54.71	3.63	-1.95	-13.00	-40.02

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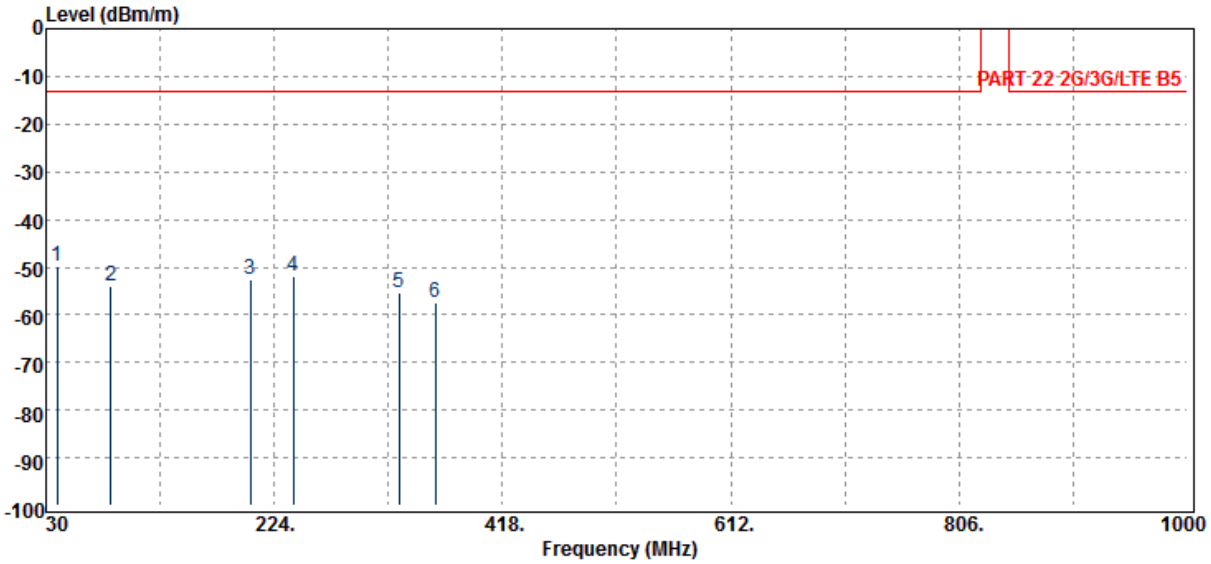
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-49.78	-36.13	-12.83	-0.83	-13.00	-36.78
85.29	S	-53.97	-51.40	-1.50	-1.07	-13.00	-40.97
203.63	S	-52.51	-54.37	3.39	-1.54	-13.00	-39.51
240.49	S	-51.82	-53.50	3.29	-1.61	-13.00	-38.82
329.73	S	-55.29	-57.10	3.71	-1.90	-13.00	-42.29
360.77	S	-57.59	-59.36	3.73	-1.96	-13.00	-44.59

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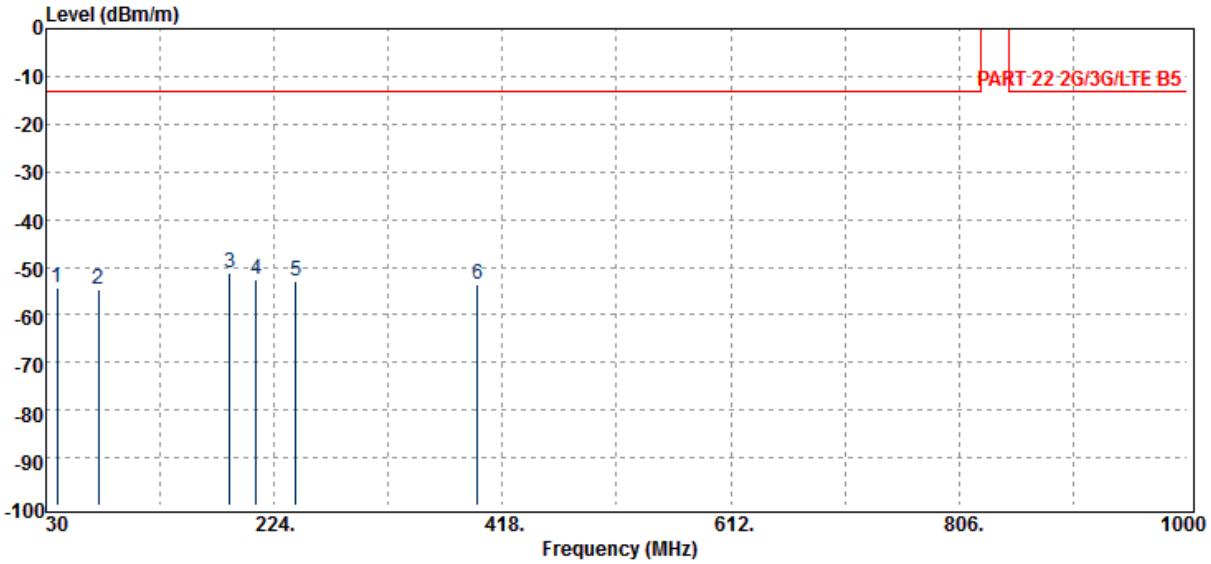
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-54.35	-40.70	-12.83	-0.83	-13.00	-41.35
74.62	S	-54.56	-49.18	-4.35	-1.03	-13.00	-41.56
186.17	S	-51.17	-51.68	2.03	-1.51	-13.00	-38.17
208.48	S	-52.56	-54.66	3.65	-1.55	-13.00	-39.56
242.43	S	-53.10	-54.81	3.32	-1.62	-13.00	-40.10
396.66	S	-53.57	-55.26	3.63	-1.95	-13.00	-40.57

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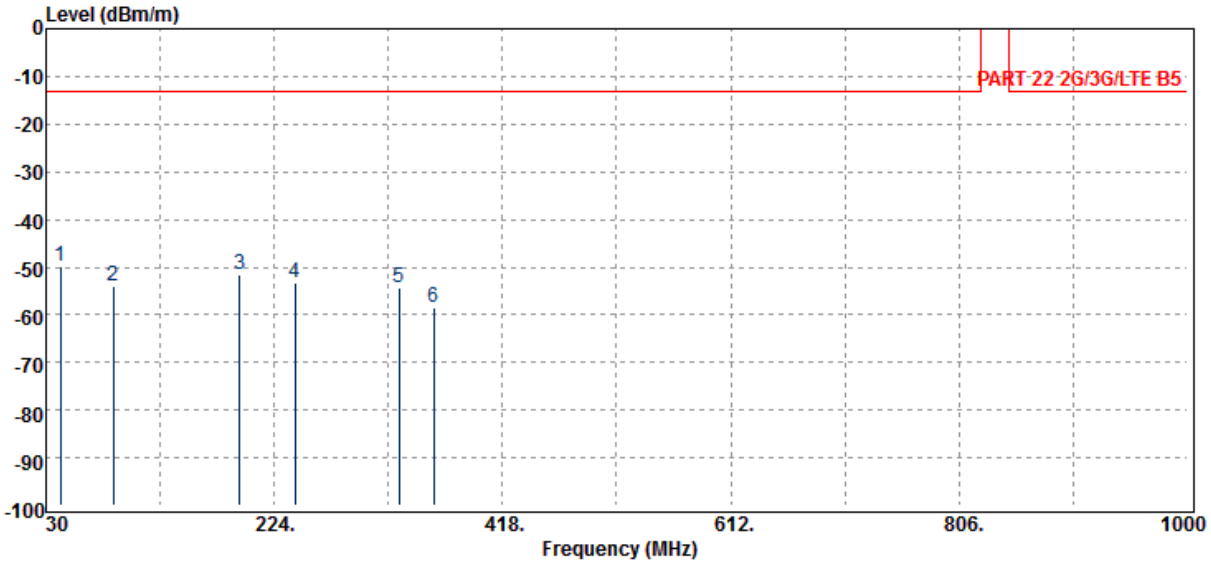
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.78	-36.38	-12.55	-0.85	-13.00	-36.78
87.23	S	-54.08	-51.95	-1.05	-1.08	-13.00	-41.08
194.90	S	-51.61	-53.01	2.93	-1.53	-13.00	-38.61
241.46	S	-53.20	-54.90	3.31	-1.61	-13.00	-40.20
329.73	S	-54.37	-56.18	3.71	-1.90	-13.00	-41.37
359.80	S	-58.61	-60.38	3.73	-1.96	-13.00	-45.61

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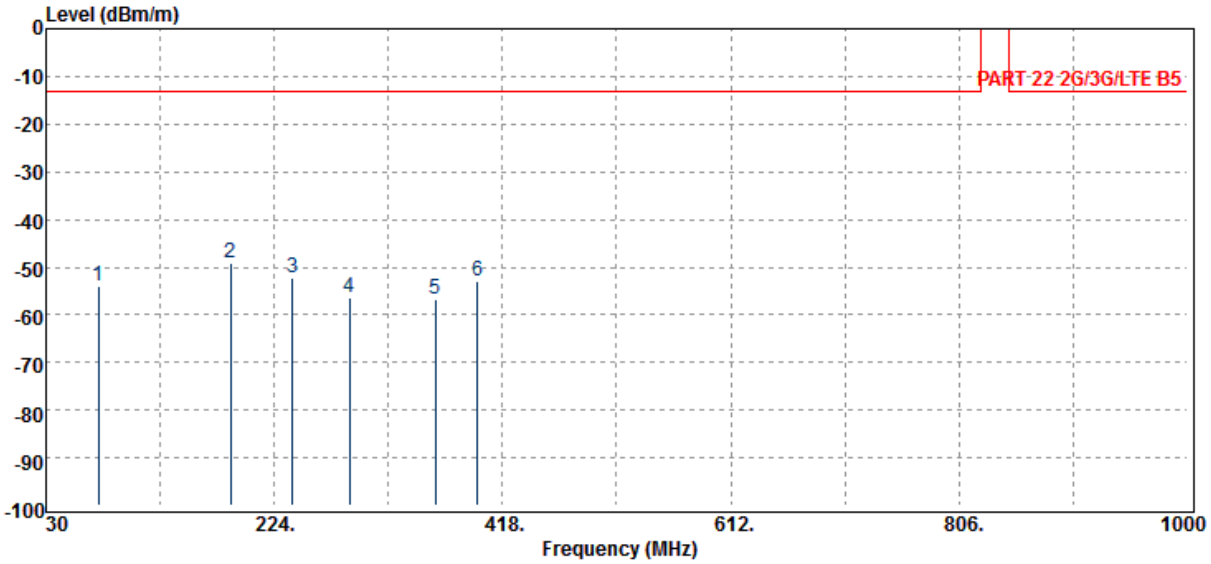
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
74.62	S	-53.88	-48.50	-4.35	-1.03	-13.00	-40.88
187.14	S	-49.15	-49.82	2.19	-1.51	-13.00	-36.15
239.52	S	-52.10	-53.78	3.29	-1.61	-13.00	-39.10
288.02	S	-56.33	-57.99	3.41	-1.74	-13.00	-43.33
360.77	S	-56.72	-58.49	3.73	-1.96	-13.00	-43.72
396.66	S	-52.87	-54.55	3.63	-1.95	-13.00	-39.87

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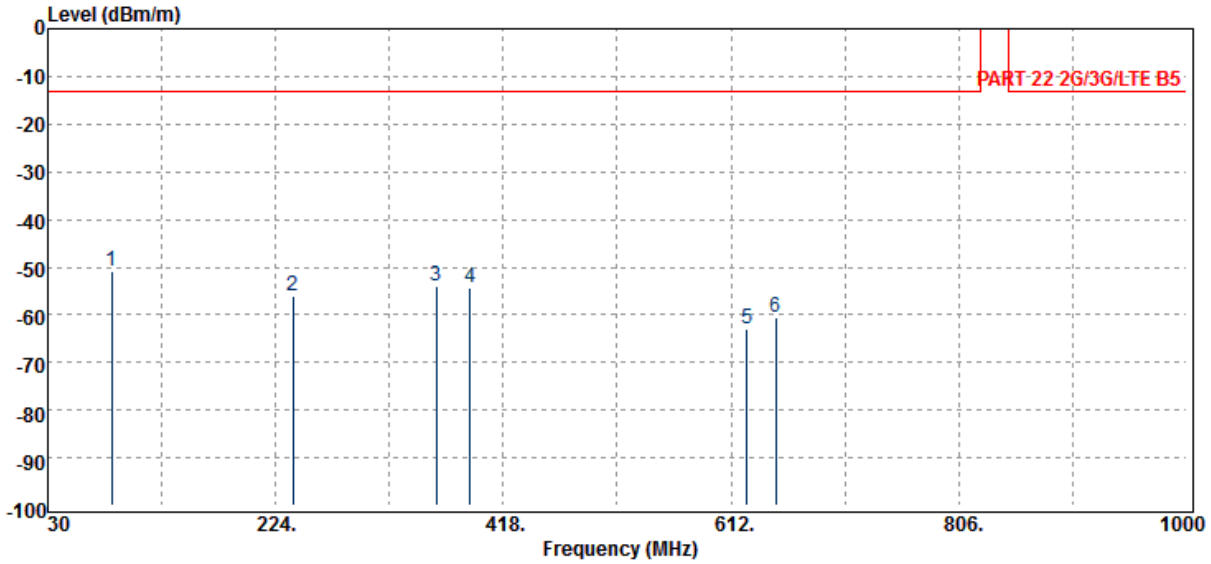
Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
84.32	S	-50.80	-50.17	0.43	-1.07	-13.00	-37.80
238.55	S	-55.90	-59.73	5.44	-1.60	-13.00	-42.90
360.77	S	-53.87	-57.79	5.88	-1.96	-13.00	-40.87
389.87	S	-54.49	-58.33	5.80	-1.95	-13.00	-41.49
625.58	S	-62.99	-65.98	5.69	-2.70	-13.00	-49.99
649.83	S	-60.69	-63.82	5.79	-2.66	-13.00	-47.69

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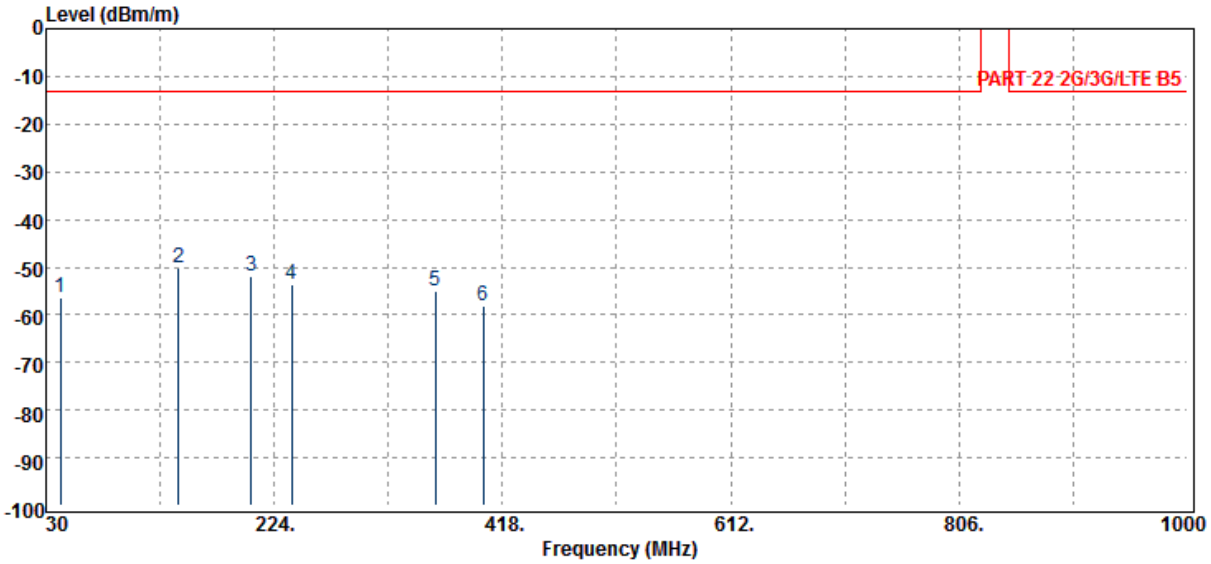
ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-56.24	-44.99	-10.40	-0.85	-13.00	-43.24
142.52	S	-50.33	-48.66	-0.32	-1.35	-13.00	-37.33
204.60	S	-51.74	-55.79	5.59	-1.54	-13.00	-38.74
238.55	S	-53.67	-57.51	5.44	-1.60	-13.00	-40.67
360.77	S	-54.87	-58.79	5.88	-1.96	-13.00	-41.87
401.51	S	-58.27	-62.09	5.76	-1.94	-13.00	-45.27

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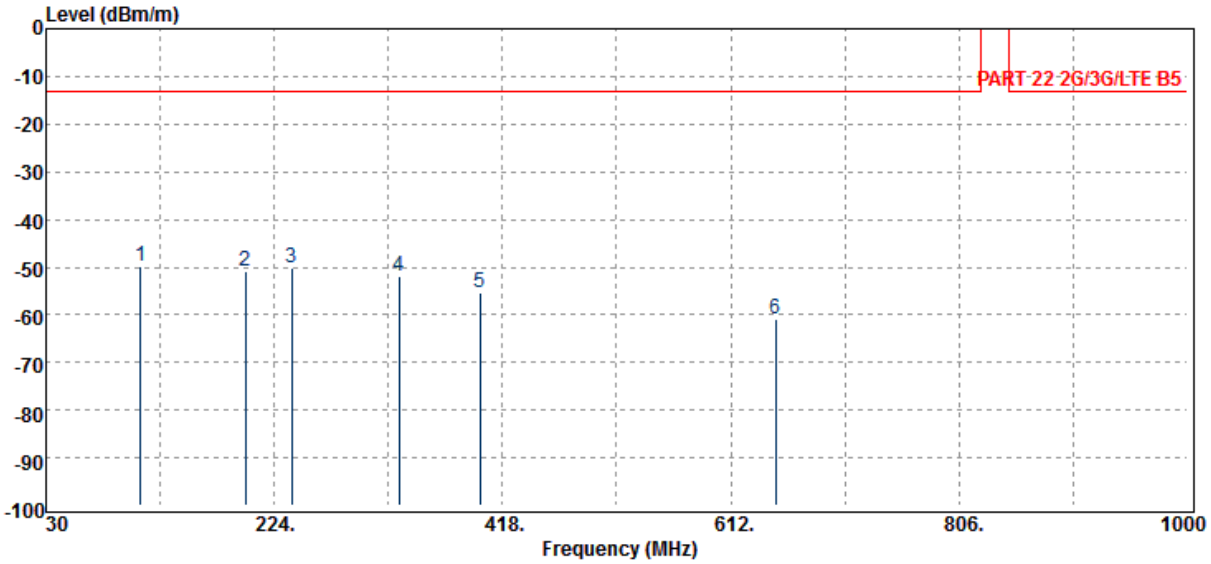
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
110.51	S	-49.95	-48.66	-0.14	-1.15	-13.00	-36.95
199.75	S	-50.97	-54.77	5.34	-1.53	-13.00	-37.97
238.55	S	-50.12	-53.96	5.44	-1.60	-13.00	-37.12
329.73	S	-51.84	-55.80	5.86	-1.90	-13.00	-38.84
398.60	S	-55.29	-59.12	5.77	-1.95	-13.00	-42.29
649.83	S	-60.89	-64.02	5.79	-2.66	-13.00	-47.89

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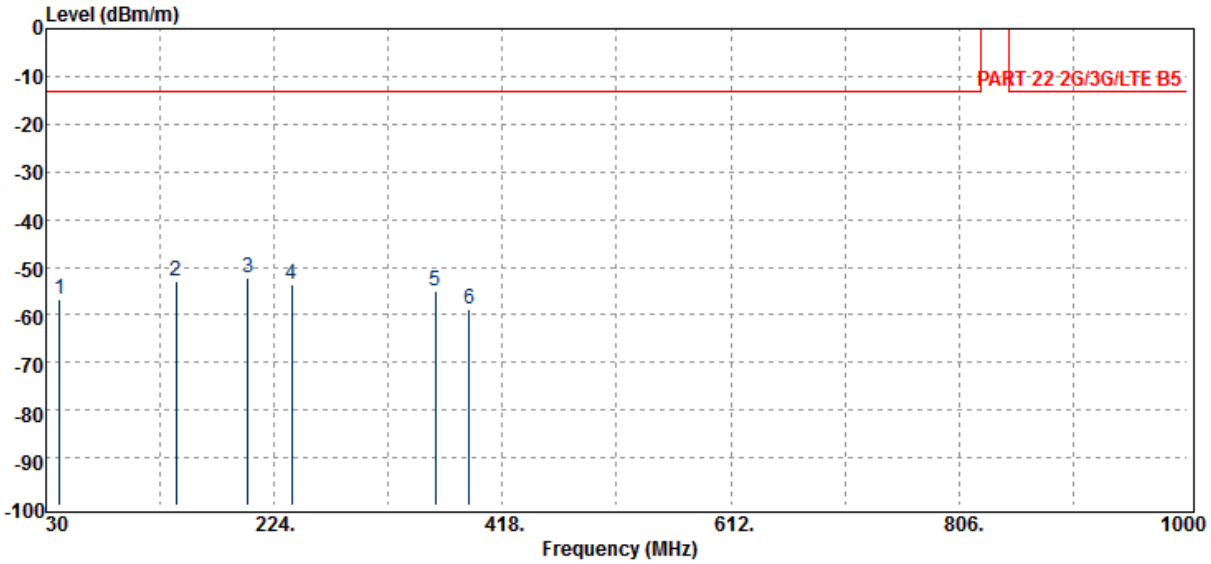
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-56.69	-45.37	-10.48	-0.84	-13.00	-43.69
140.58	S	-52.79	-51.03	-0.42	-1.34	-13.00	-39.79
201.69	S	-52.15	-56.06	5.44	-1.54	-13.00	-39.15
238.55	S	-53.66	-57.49	5.44	-1.60	-13.00	-40.66
360.77	S	-55.06	-58.98	5.88	-1.96	-13.00	-42.06
389.87	S	-58.77	-62.62	5.80	-1.95	-13.00	-45.77

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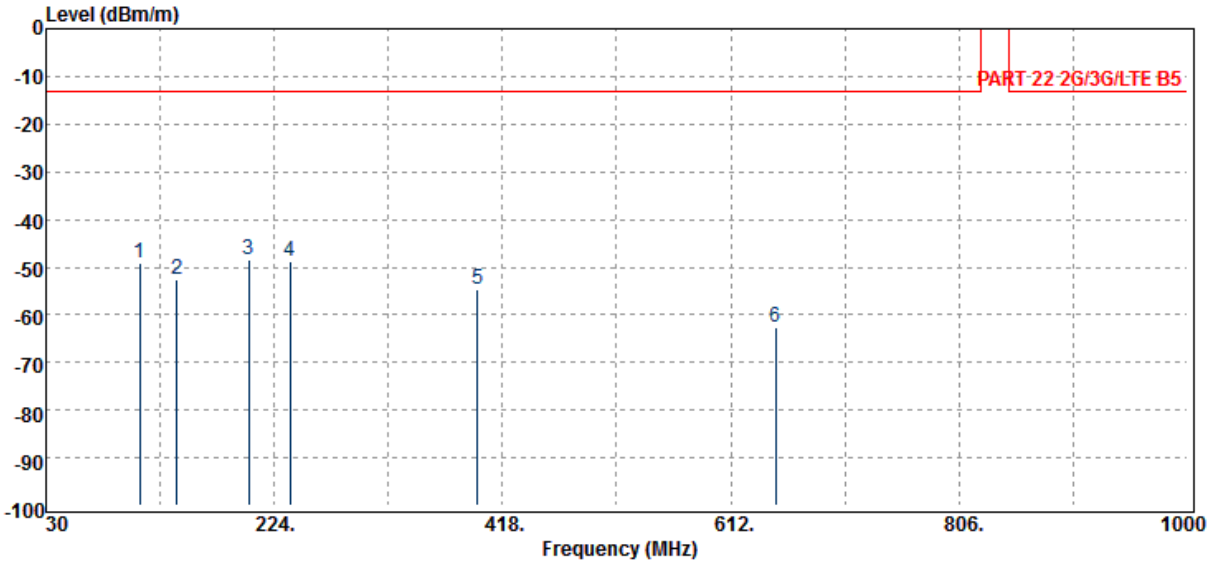
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
109.54	S	-49.11	-47.85	-0.11	-1.15	-13.00	-36.11
141.55	S	-52.44	-50.73	-0.37	-1.34	-13.00	-39.44
202.66	S	-48.41	-52.36	5.49	-1.54	-13.00	-35.41
237.58	S	-48.89	-52.73	5.44	-1.60	-13.00	-35.89
396.66	S	-54.84	-58.68	5.78	-1.95	-13.00	-41.84
649.83	S	-62.54	-65.67	5.79	-2.66	-13.00	-49.54

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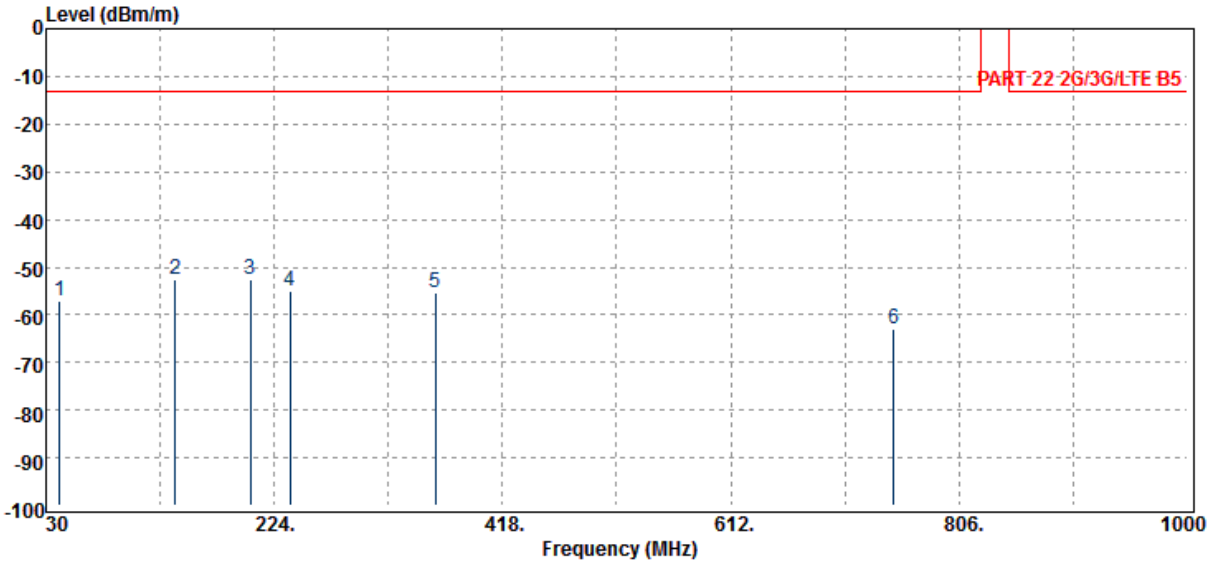
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-57.05	-45.73	-10.48	-0.84	-13.00	-44.05
139.61	S	-52.74	-50.96	-0.45	-1.33	-13.00	-39.74
203.63	S	-52.44	-56.45	5.54	-1.54	-13.00	-39.44
237.58	S	-54.85	-58.69	5.44	-1.60	-13.00	-41.85
360.77	S	-55.24	-59.16	5.88	-1.96	-13.00	-42.24
750.71	S	-63.00	-65.74	5.43	-2.70	-13.00	-50.00

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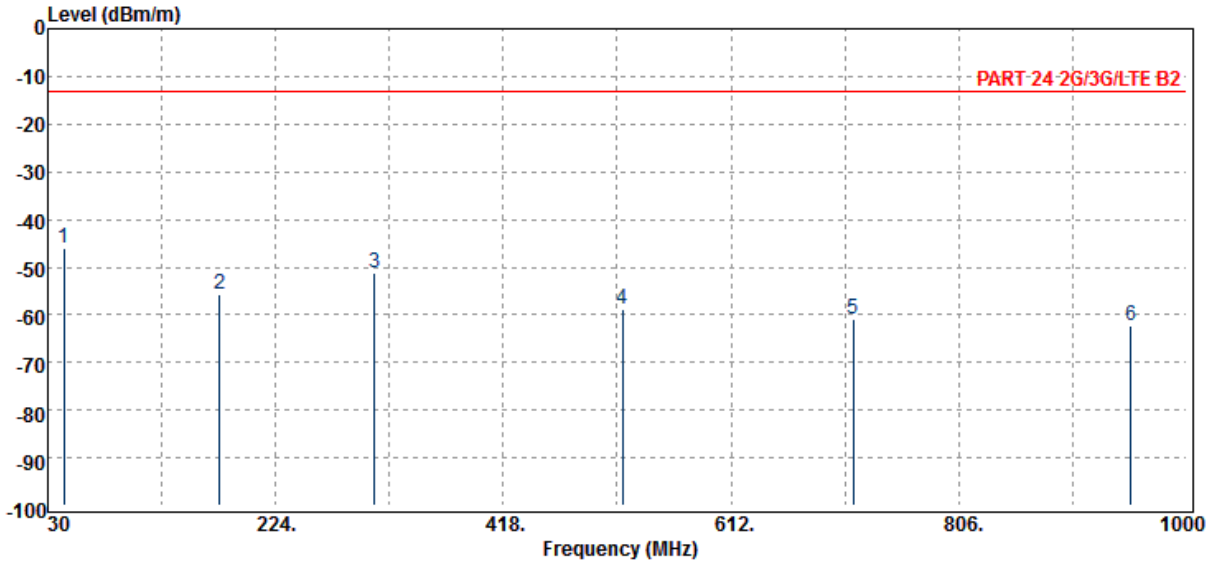
Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-45.86	-34.68	-10.32	-0.86	-13.00	-32.86
176.47	S	-55.55	-56.61	2.55	-1.49	-13.00	-42.55
308.39	S	-51.14	-55.12	5.80	-1.82	-13.00	-38.14
519.85	S	-58.77	-62.20	5.84	-2.41	-13.00	-45.77
715.79	S	-60.74	-63.63	5.50	-2.61	-13.00	-47.74
952.47	S	-62.32	-64.33	5.22	-3.21	-13.00	-49.32

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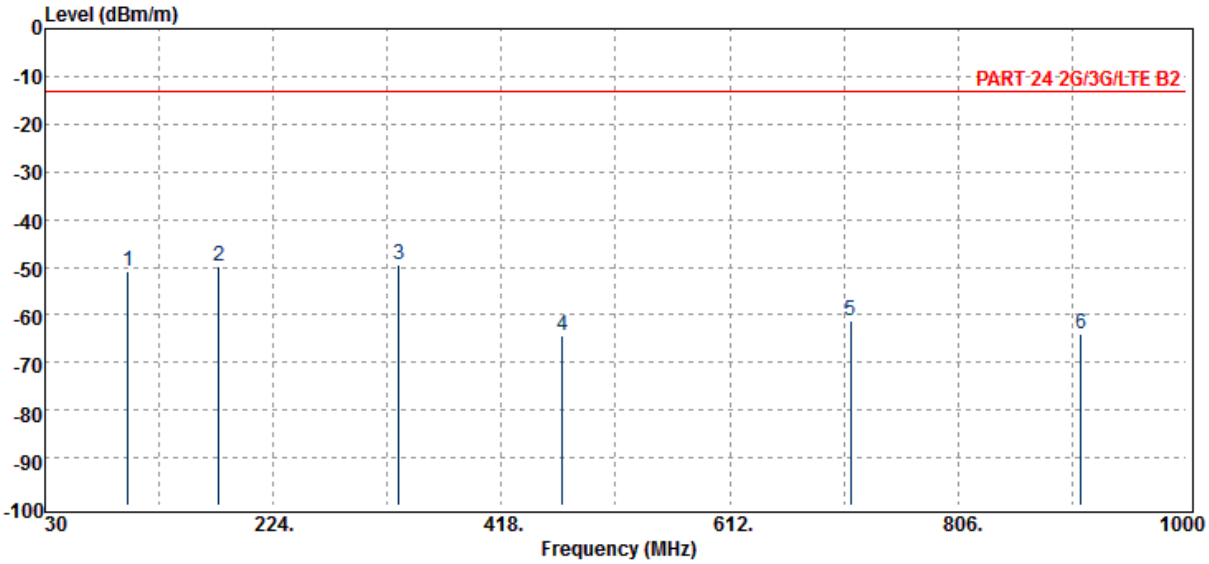
ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
100.81	S	-50.85	-50.29	0.56	-1.12	-13.00	-37.85
177.44	S	-49.79	-51.00	2.71	-1.50	-13.00	-36.79
330.70	S	-49.62	-53.58	5.86	-1.90	-13.00	-36.62
469.41	S	-64.41	-67.95	5.66	-2.12	-13.00	-51.41
714.82	S	-61.28	-64.17	5.50	-2.61	-13.00	-48.28
910.76	S	-63.85	-66.11	5.41	-3.15	-13.00	-50.85

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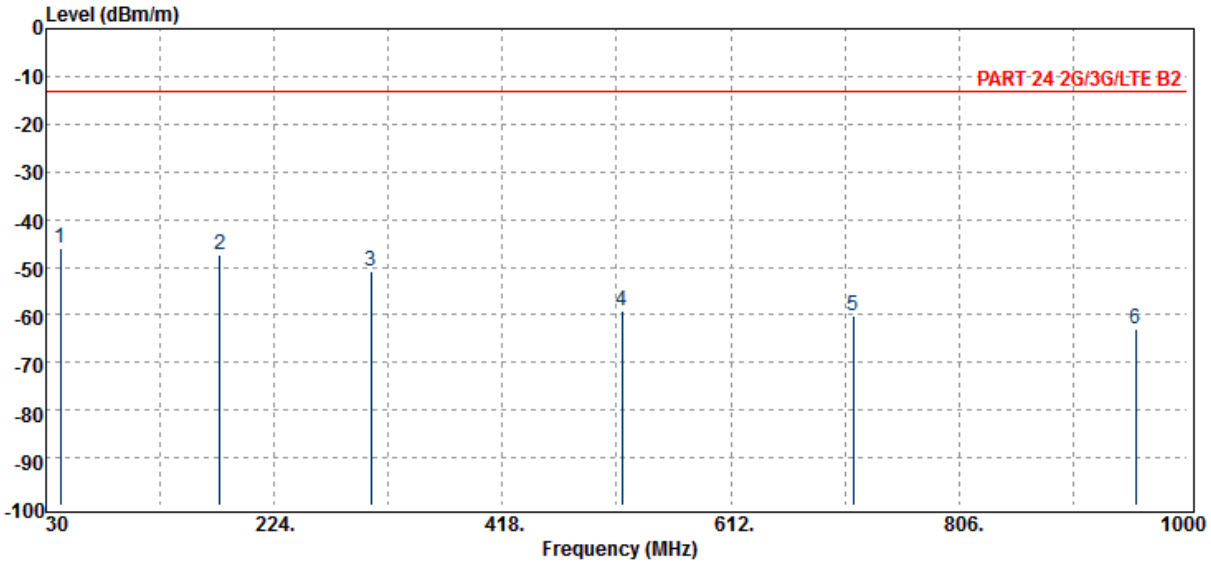
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-45.94	-34.68	-10.40	-0.85	-13.00	-32.94
177.44	S	-47.48	-48.69	2.71	-1.50	-13.00	-34.48
306.45	S	-50.71	-54.69	5.79	-1.81	-13.00	-37.71
519.85	S	-59.23	-62.66	5.84	-2.41	-13.00	-46.23
715.79	S	-60.27	-63.16	5.50	-2.61	-13.00	-47.27
956.35	S	-63.00	-64.75	4.96	-3.21	-13.00	-50.00

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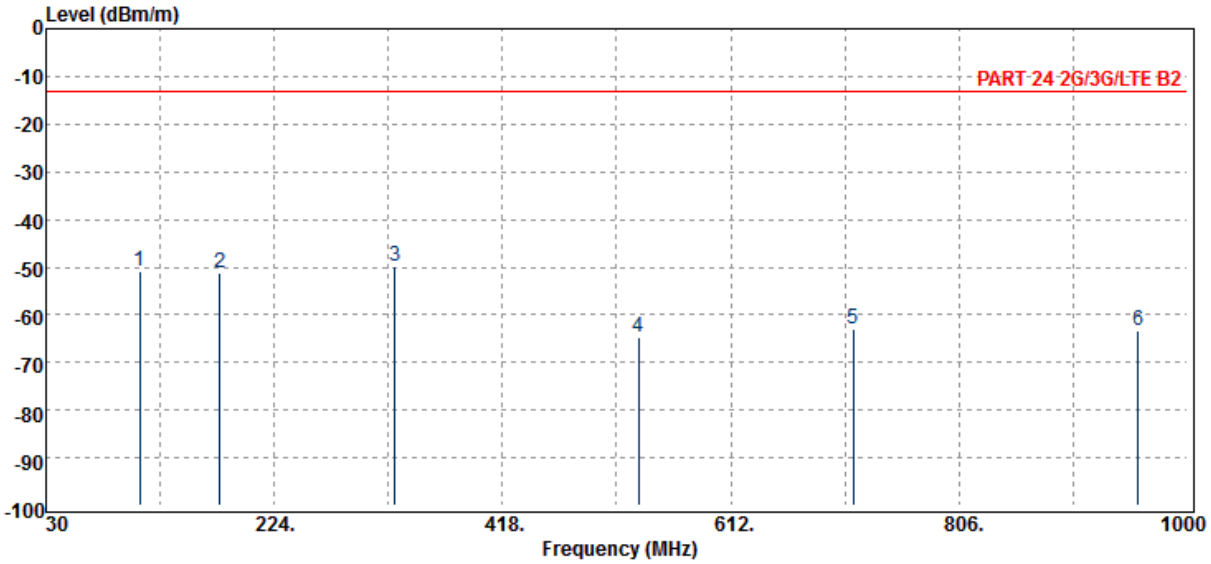
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
109.54	S	-50.77	-49.51	-0.11	-1.15	-13.00	-37.77
177.44	S	-51.07	-52.29	2.71	-1.50	-13.00	-38.07
326.82	S	-49.97	-53.93	5.85	-1.89	-13.00	-36.97
533.43	S	-64.79	-68.10	5.79	-2.49	-13.00	-51.79
715.79	S	-63.02	-65.91	5.50	-2.61	-13.00	-50.02
958.29	S	-63.30	-64.92	4.83	-3.21	-13.00	-50.30

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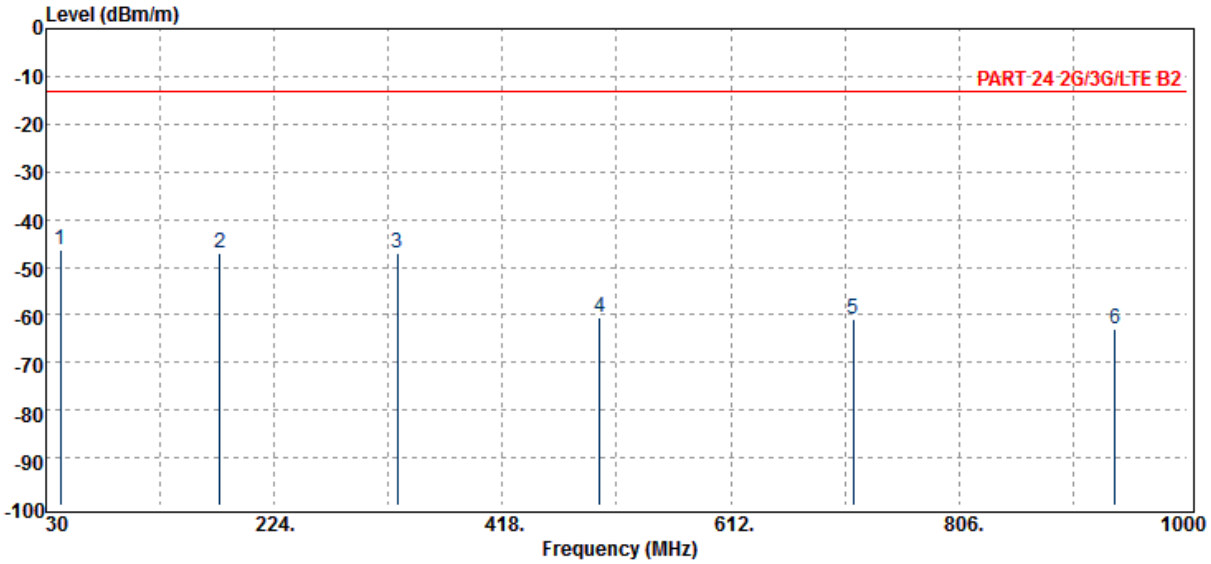
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-46.32	-35.07	-10.40	-0.85	-13.00	-33.32
177.44	S	-47.13	-48.34	2.71	-1.50	-13.00	-34.13
328.76	S	-46.94	-50.91	5.85	-1.89	-13.00	-33.94
500.45	S	-60.53	-64.13	5.91	-2.30	-13.00	-47.53
715.79	S	-60.73	-63.62	5.50	-2.61	-13.00	-47.73
938.89	S	-62.89	-65.10	5.39	-3.19	-13.00	-49.89

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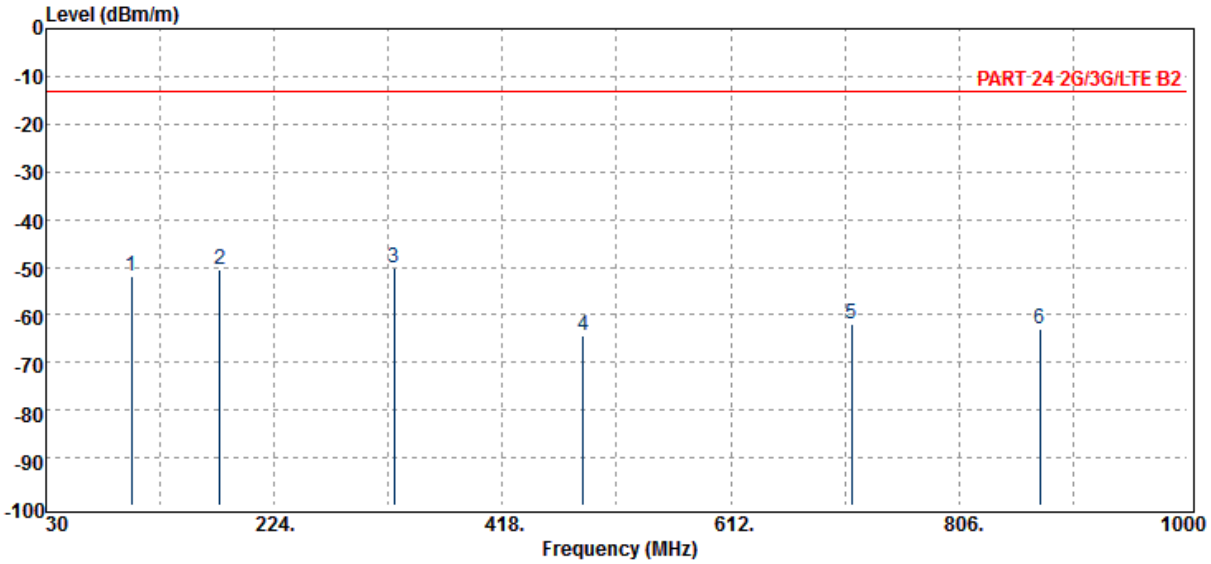
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
102.75	S	-51.80	-51.08	0.41	-1.13	-13.00	-38.80
177.44	S	-50.58	-51.79	2.71	-1.50	-13.00	-37.58
325.85	S	-50.22	-54.18	5.85	-1.88	-13.00	-37.22
486.87	S	-64.39	-67.97	5.80	-2.22	-13.00	-51.39
714.82	S	-61.98	-64.87	5.50	-2.61	-13.00	-48.98
874.87	S	-63.15	-65.59	5.52	-3.07	-13.00	-50.15

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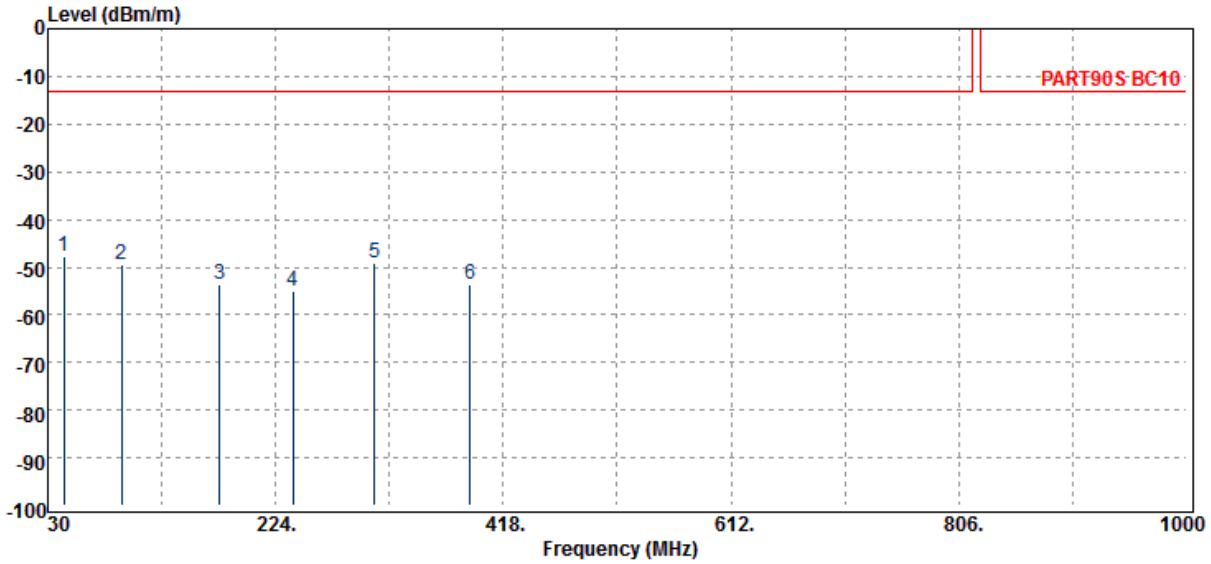
Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-47.86	-36.68	-10.32	-0.86	-13.00	-34.86
93.05	S	-49.53	-49.80	1.37	-1.10	-13.00	-36.53
176.47	S	-53.55	-54.61	2.55	-1.49	-13.00	-40.55
238.55	S	-54.90	-58.73	5.44	-1.60	-13.00	-41.90
308.39	S	-49.14	-53.12	5.80	-1.82	-13.00	-36.14
389.87	S	-53.49	-57.33	5.80	-1.95	-13.00	-40.49

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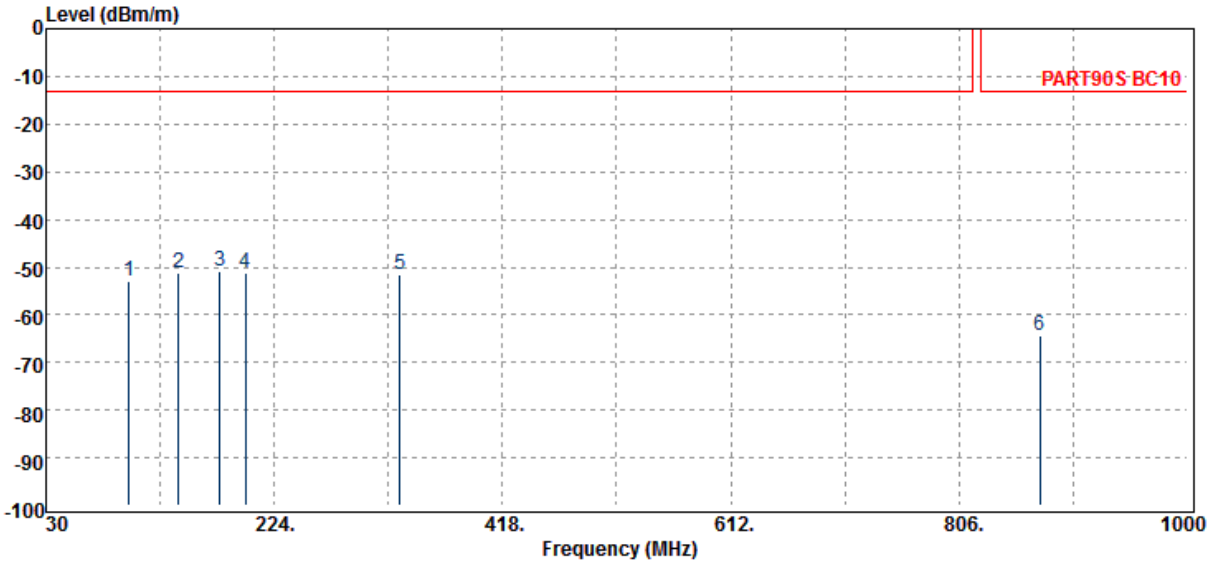
ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
100.81	S	-52.85	-52.29	0.56	-1.12	-13.00	-39.85
142.52	S	-51.33	-49.66	-0.32	-1.35	-13.00	-38.33
177.44	S	-50.79	-52.00	2.71	-1.50	-13.00	-37.79
199.75	S	-51.21	-55.01	5.34	-1.53	-13.00	-38.21
330.70	S	-51.62	-55.58	5.86	-1.90	-13.00	-38.62
874.87	S	-64.43	-66.87	5.52	-3.07	-13.00	-51.43

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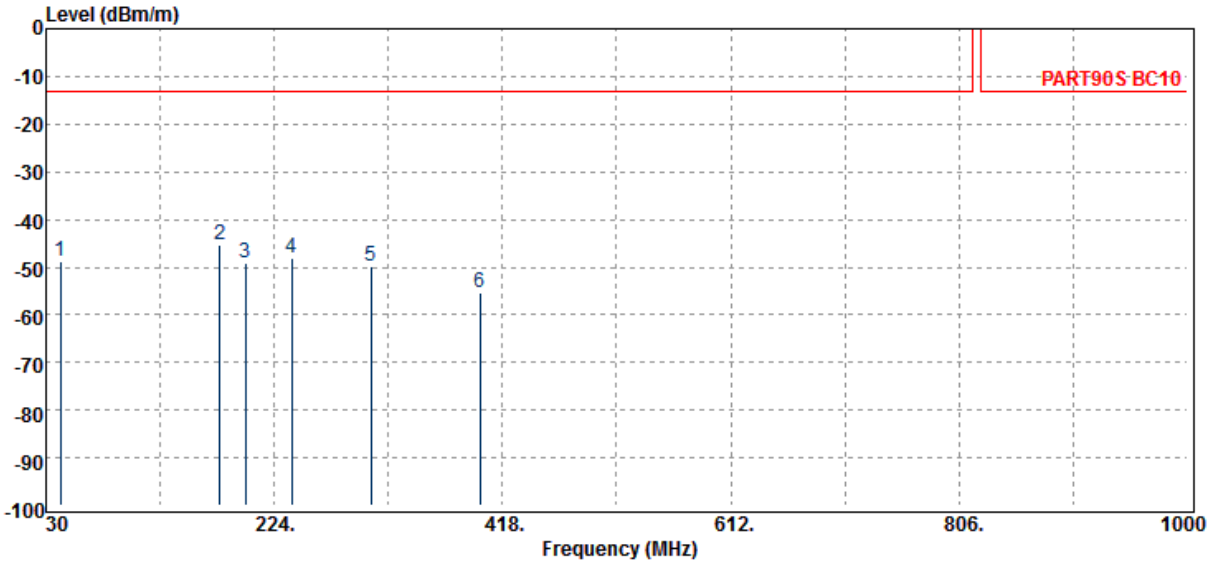
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-48.94	-37.68	-10.40	-0.85	-13.00	-35.94
177.44	S	-45.48	-46.69	2.71	-1.50	-13.00	-32.48
199.75	S	-48.97	-52.77	5.34	-1.53	-13.00	-35.97
238.55	S	-48.12	-51.96	5.44	-1.60	-13.00	-35.12
306.45	S	-49.71	-53.69	5.79	-1.81	-13.00	-36.71
398.60	S	-55.29	-59.12	5.77	-1.95	-13.00	-42.29

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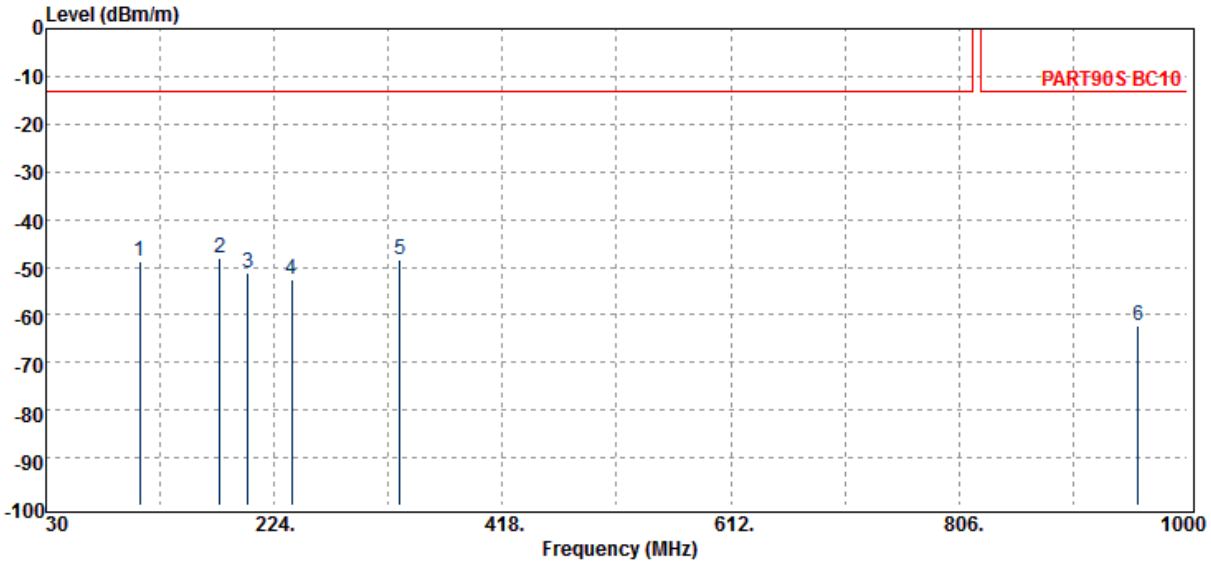
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
109.54	S	-48.77	-47.51	-0.11	-1.15	-13.00	-35.77
177.44	S	-48.07	-49.29	2.71	-1.50	-13.00	-35.07
201.69	S	-51.15	-55.06	5.44	-1.54	-13.00	-38.15
238.55	S	-52.66	-56.49	5.44	-1.60	-13.00	-39.66
330.70	S	-48.37	-52.33	5.86	-1.90	-13.00	-35.37
958.29	S	-62.30	-63.92	4.83	-3.21	-13.00	-49.30

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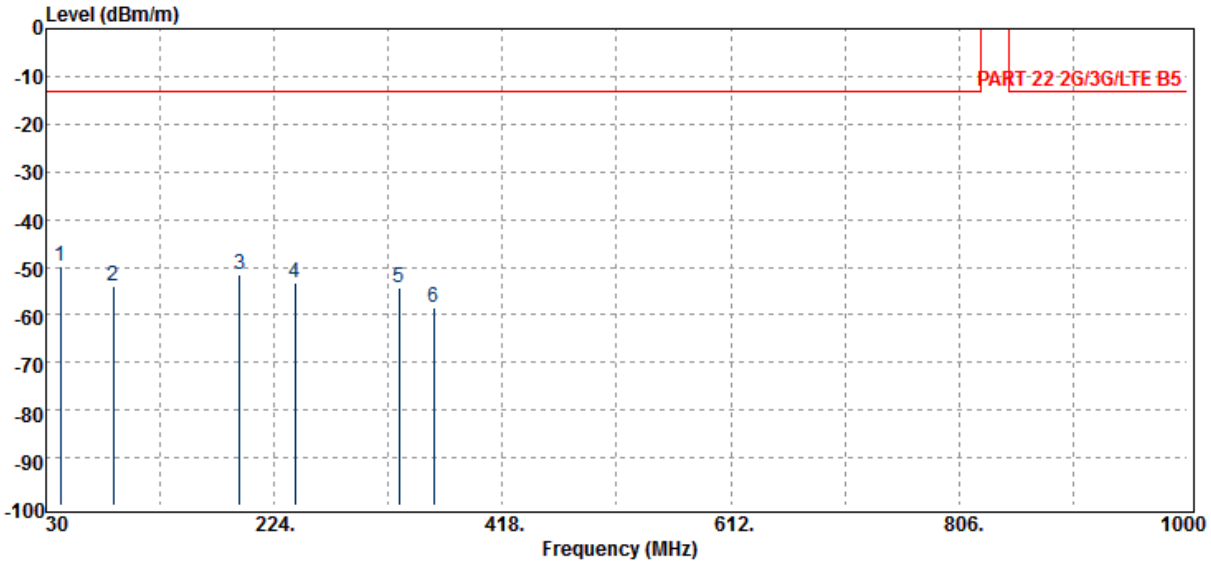
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
177.44	S	-45.13	-46.34	2.71	-1.50	-13.00	-32.13
198.78	S	-47.02	-50.77	5.29	-1.53	-13.00	-34.02
237.58	S	-49.89	-53.73	5.44	-1.60	-13.00	-36.89
328.76	S	-44.94	-48.91	5.85	-1.89	-13.00	-31.94
396.66	S	-52.84	-56.68	5.78	-1.95	-13.00	-39.84
715.79	S	-58.73	-61.62	5.50	-2.61	-13.00	-45.73

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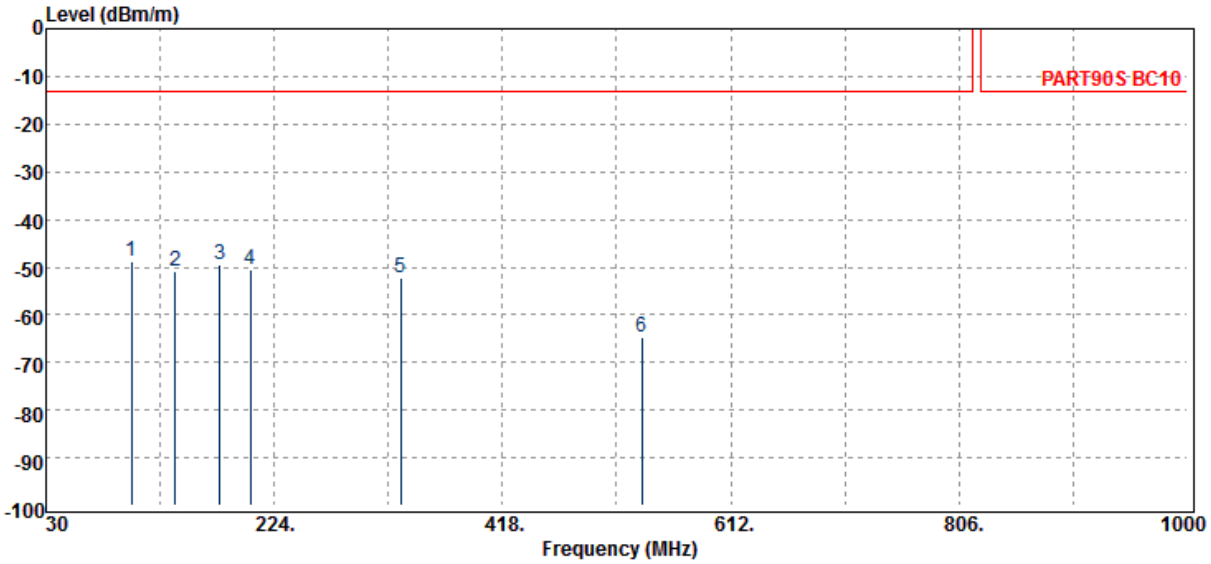
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
102.75	S	-48.80	-48.08	0.41	-1.13	-13.00	-35.80
139.61	S	-50.74	-48.96	-0.45	-1.33	-13.00	-37.74
177.44	S	-49.58	-50.79	2.71	-1.50	-13.00	-36.58
203.63	S	-50.44	-54.45	5.54	-1.54	-13.00	-37.44
331.67	S	-52.29	-56.25	5.86	-1.90	-13.00	-39.29
536.34	S	-64.54	-67.82	5.78	-2.50	-13.00	-51.54

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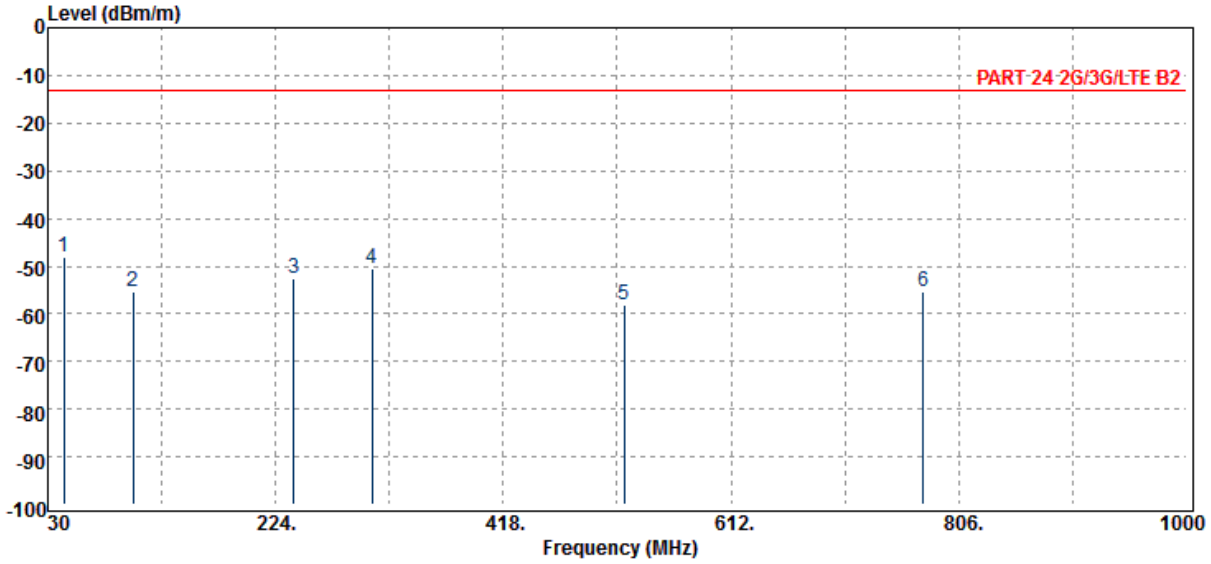
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-48.16	-36.98	-10.32	-0.86	-13.00	-35.16
102.75	S	-55.35	-54.63	0.41	-1.13	-13.00	-42.35
239.52	S	-52.75	-56.58	5.44	-1.61	-13.00	-39.75
306.45	S	-50.52	-54.50	5.79	-1.81	-13.00	-37.52
520.82	S	-58.23	-61.65	5.84	-2.42	-13.00	-45.23
775.93	S	-55.47	-58.22	5.52	-2.76	-13.00	-42.47

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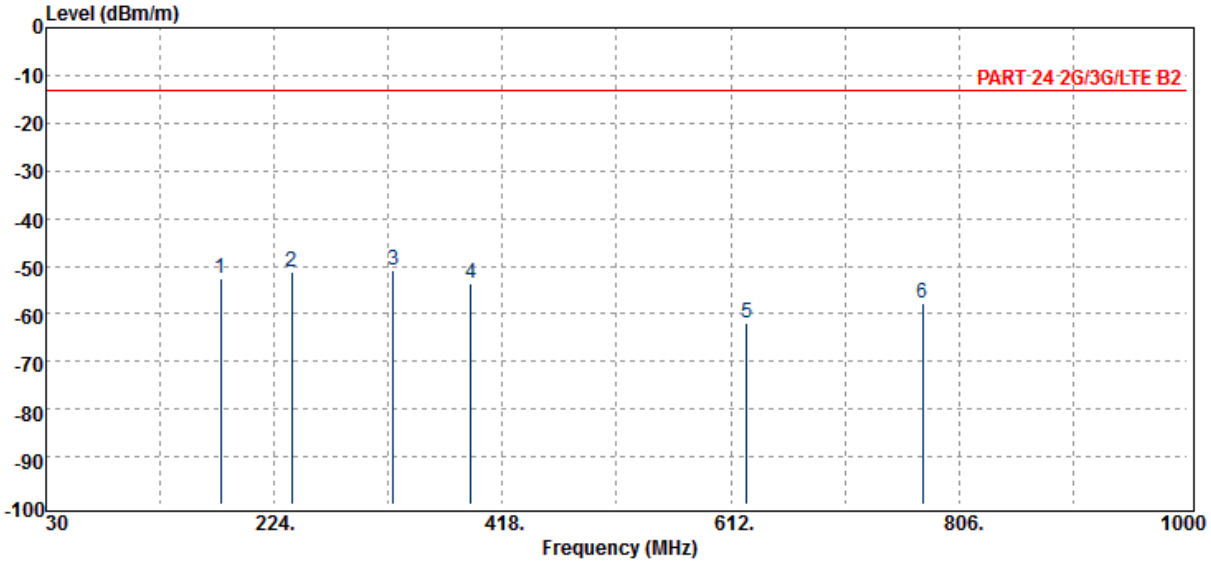
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
178.41	S	-52.75	-54.13	2.87	-1.50	-13.00	-39.75
238.55	S	-51.21	-55.04	5.44	-1.60	-13.00	-38.21
324.88	S	-50.98	-54.94	5.84	-1.88	-13.00	-37.98
390.84	S	-53.66	-57.50	5.80	-1.95	-13.00	-40.66
625.58	S	-61.80	-64.79	5.69	-2.70	-13.00	-48.80
774.96	S	-57.69	-60.44	5.51	-2.76	-13.00	-44.69

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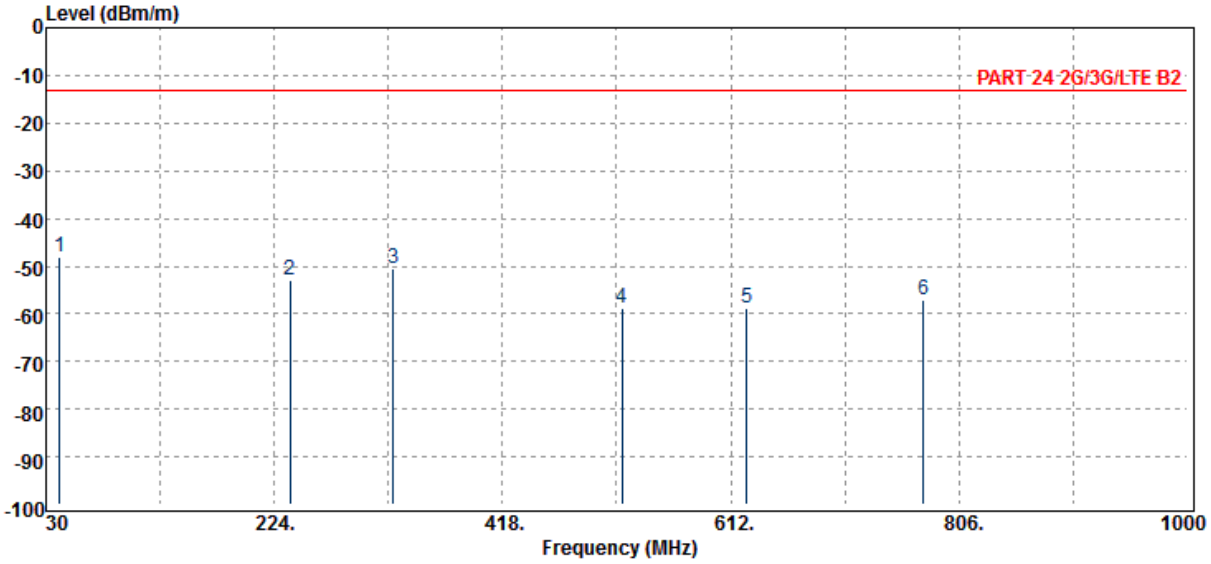
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-47.94	-36.61	-10.48	-0.84	-13.00	-34.94
237.58	S	-53.06	-56.90	5.44	-1.60	-13.00	-40.06
324.88	S	-50.45	-54.41	5.84	-1.88	-13.00	-37.45
519.85	S	-58.88	-62.31	5.84	-2.41	-13.00	-45.88
625.58	S	-58.97	-61.97	5.69	-2.70	-13.00	-45.97
775.93	S	-56.99	-59.74	5.52	-2.76	-13.00	-43.99

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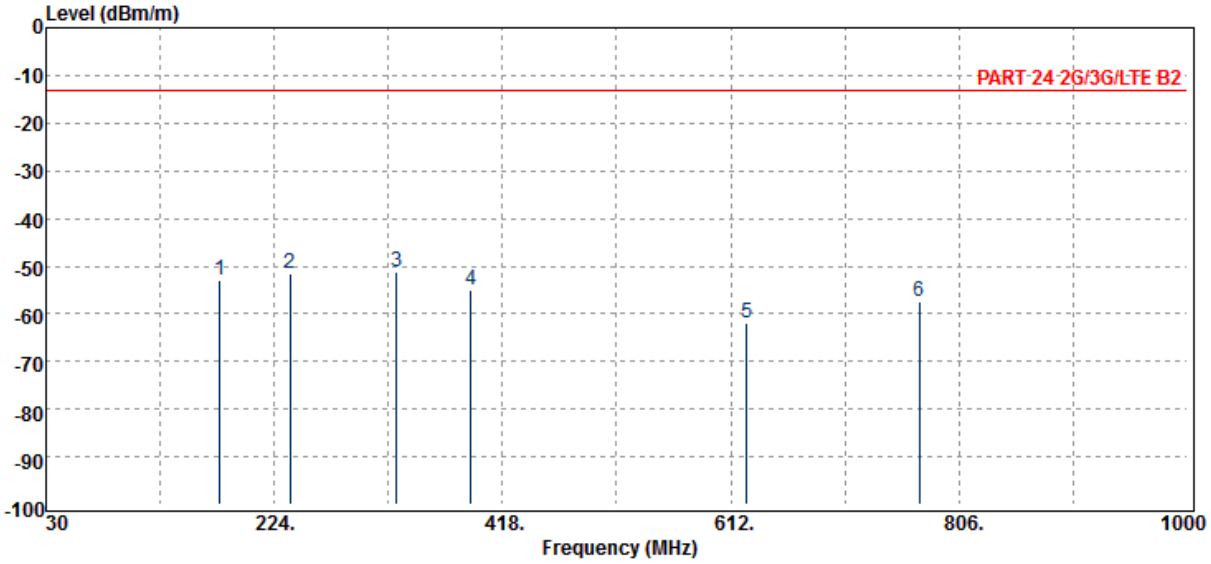
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
177.44	S	-52.90	-54.11	2.71	-1.50	-13.00	-39.90
237.58	S	-51.60	-55.44	5.44	-1.60	-13.00	-38.60
327.79	S	-51.13	-55.09	5.85	-1.89	-13.00	-38.13
390.84	S	-55.06	-58.90	5.80	-1.95	-13.00	-42.06
625.58	S	-61.87	-64.86	5.69	-2.70	-13.00	-48.87
772.05	S	-57.30	-60.05	5.50	-2.75	-13.00	-44.30

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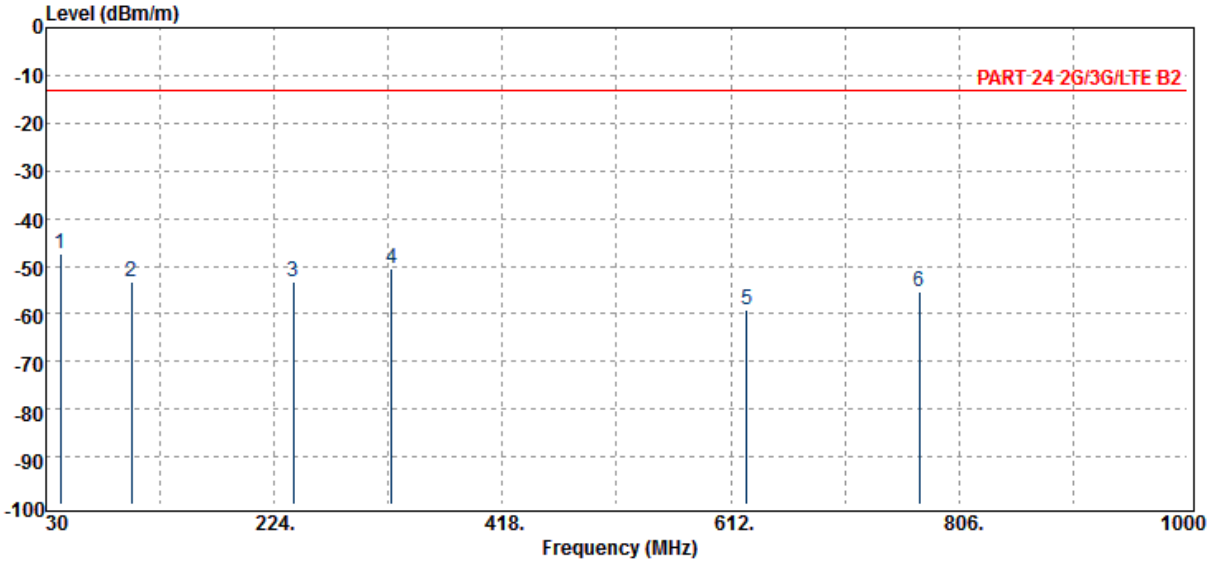
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-47.30	-36.04	-10.40	-0.85	-13.00	-34.30
102.75	S	-53.45	-52.73	0.41	-1.13	-13.00	-40.45
240.49	S	-53.28	-57.12	5.44	-1.61	-13.00	-40.28
323.91	S	-50.63	-54.59	5.84	-1.88	-13.00	-37.63
625.58	S	-59.02	-62.01	5.69	-2.70	-13.00	-46.02
772.05	S	-55.45	-58.21	5.50	-2.75	-13.00	-42.45

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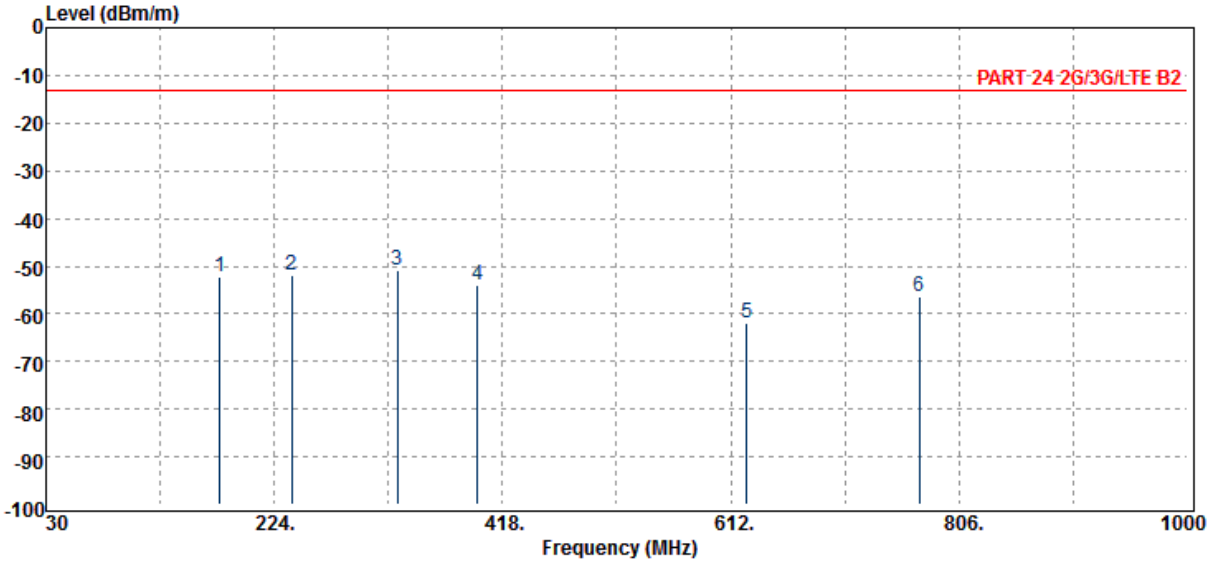
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
177.44	S	-52.23	-53.45	2.71	-1.50	-13.00	-39.23
238.55	S	-51.89	-55.72	5.44	-1.60	-13.00	-38.89
328.76	S	-51.03	-55.00	5.85	-1.89	-13.00	-38.03
396.66	S	-53.89	-57.73	5.78	-1.95	-13.00	-40.89
625.58	S	-61.85	-64.85	5.69	-2.70	-13.00	-48.85
772.05	S	-56.26	-59.01	5.50	-2.75	-13.00	-43.26

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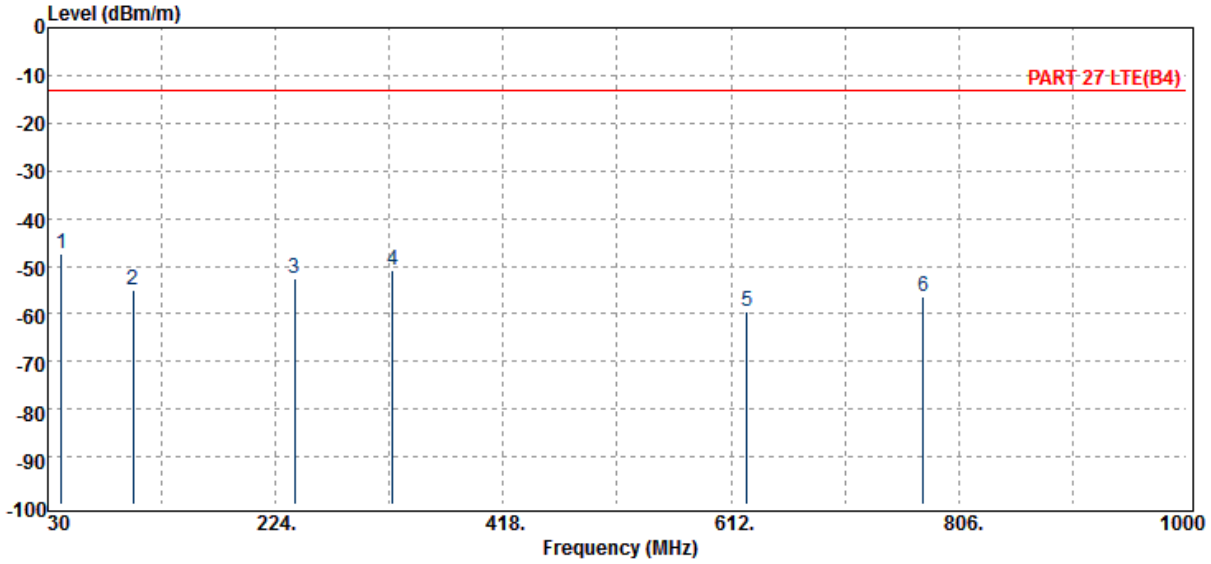
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 4 (The Worst Case)

ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-47.54	-36.21	-10.48	-0.84	-13.00	-34.54
102.75	S	-54.88	-54.16	0.41	-1.13	-13.00	-41.88
240.49	S	-52.49	-56.32	5.44	-1.61	-13.00	-39.49
323.91	S	-50.78	-54.75	5.84	-1.88	-13.00	-37.78
625.58	S	-59.47	-62.47	5.69	-2.70	-13.00	-46.47
775.93	S	-56.51	-59.26	5.52	-2.76	-13.00	-43.51

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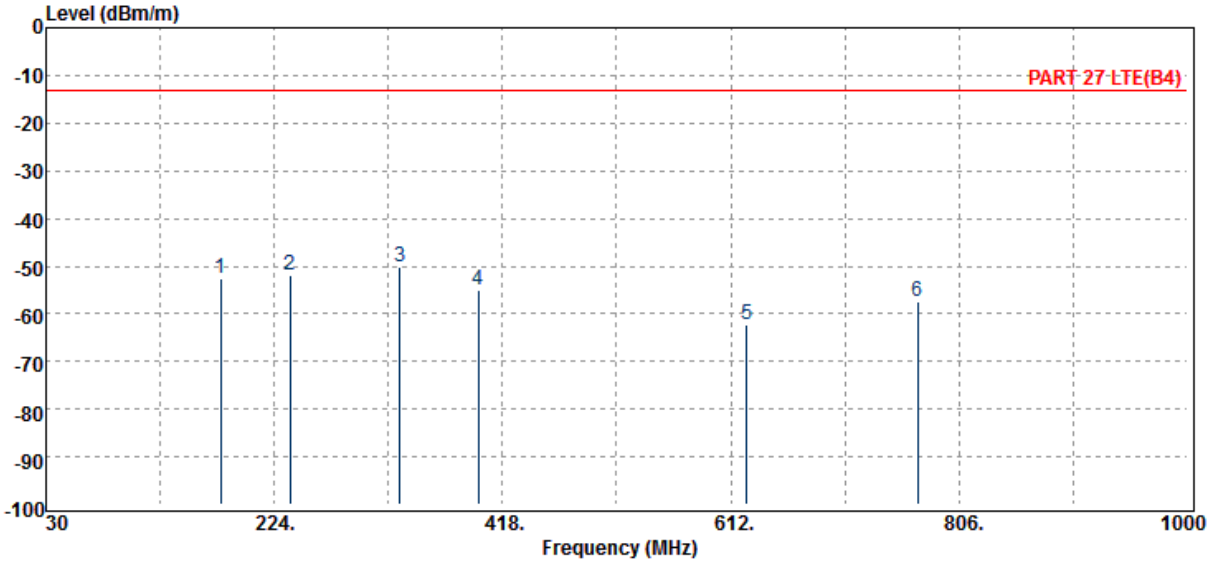
ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
178.41	S	-52.57	-53.94	2.87	-1.50	-13.00	-39.57
237.58	S	-51.81	-55.65	5.44	-1.60	-13.00	-38.81
330.70	S	-50.10	-54.06	5.86	-1.90	-13.00	-37.10
397.63	S	-54.98	-58.81	5.78	-1.95	-13.00	-41.98
625.58	S	-62.33	-65.33	5.69	-2.70	-13.00	-49.33
771.08	S	-57.53	-60.28	5.50	-2.75	-13.00	-44.53

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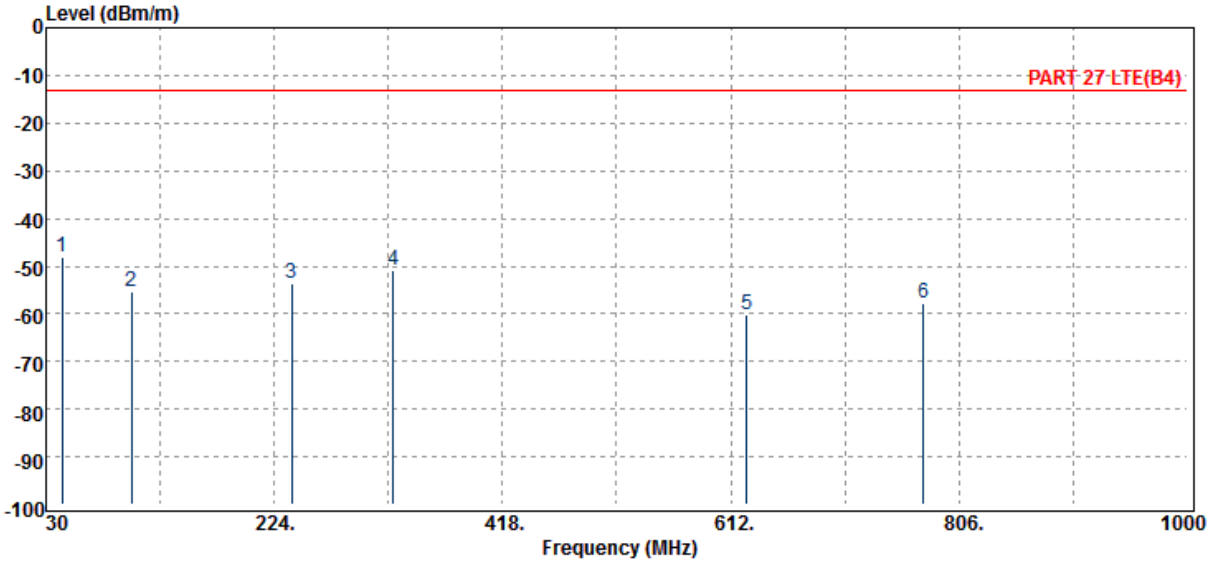
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-48.25	-37.07	-10.32	-0.86	-13.00	-35.25
102.75	S	-55.21	-54.49	0.41	-1.13	-13.00	-42.21
238.55	S	-53.53	-57.37	5.44	-1.60	-13.00	-40.53
324.88	S	-50.91	-54.88	5.84	-1.88	-13.00	-37.91
625.58	S	-60.23	-63.23	5.69	-2.70	-13.00	-47.23
775.93	S	-57.95	-60.71	5.52	-2.76	-13.00	-44.95

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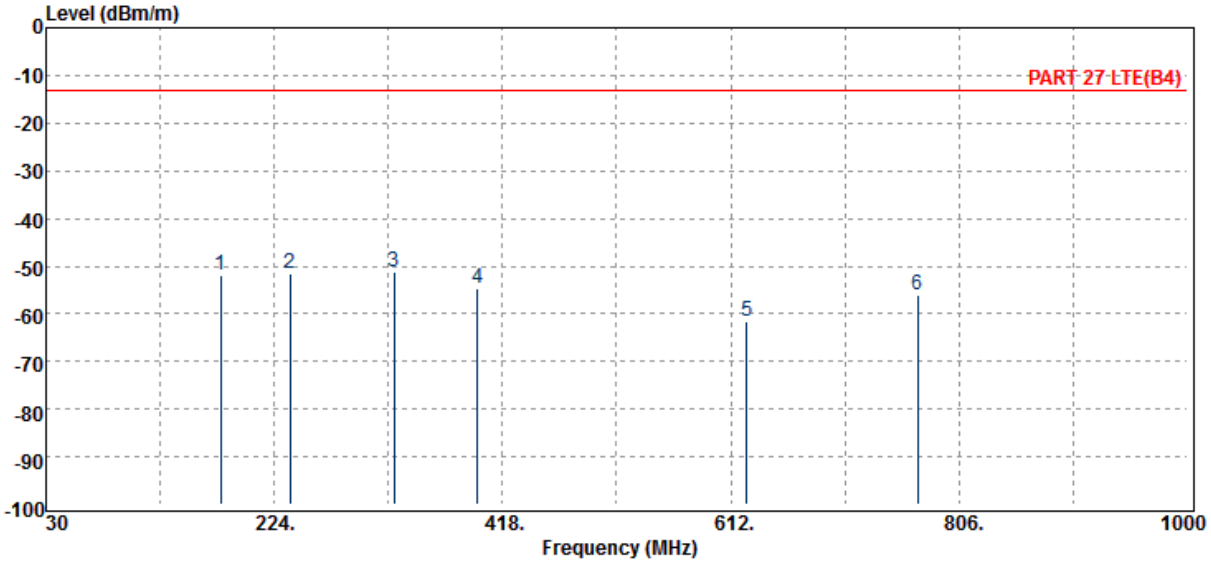
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
178.41	S	-51.87	-53.25	2.87	-1.50	-13.00	-38.87
237.58	S	-51.45	-55.29	5.44	-1.60	-13.00	-38.45
325.85	S	-51.18	-55.15	5.85	-1.88	-13.00	-38.18
396.66	S	-54.60	-58.43	5.78	-1.95	-13.00	-41.60
625.58	S	-61.70	-64.69	5.69	-2.70	-13.00	-48.70
771.08	S	-56.16	-58.92	5.50	-2.75	-13.00	-43.16

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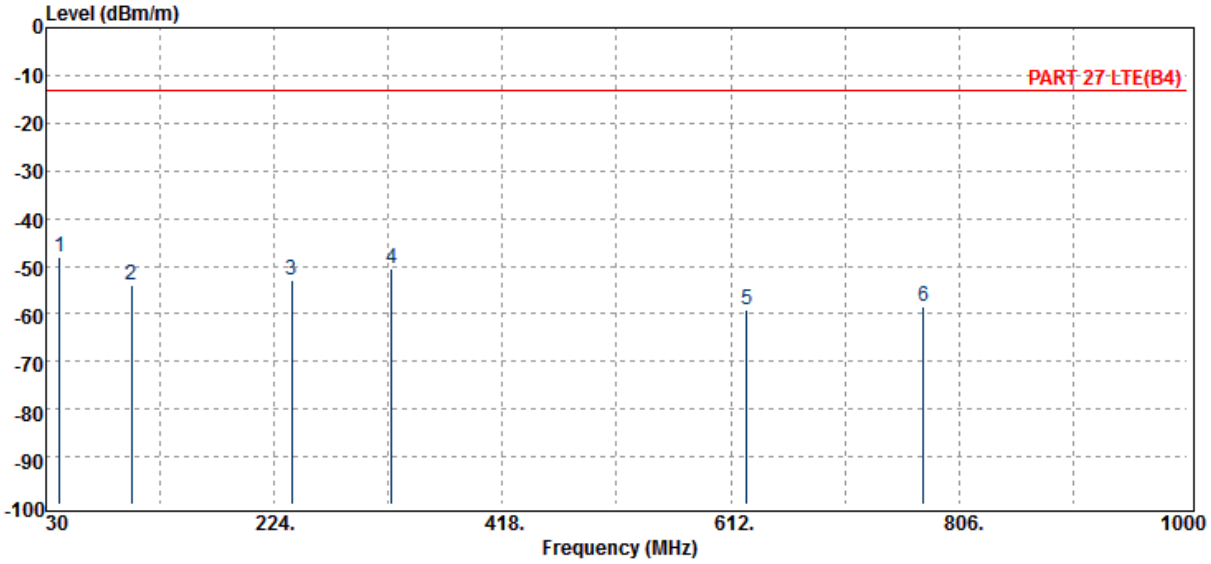
ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-48.10	-36.78	-10.48	-0.84	-13.00	-35.10
102.75	S	-53.93	-53.22	0.41	-1.13	-13.00	-40.93
238.55	S	-52.95	-56.79	5.44	-1.60	-13.00	-39.95
323.91	S	-50.43	-54.39	5.84	-1.88	-13.00	-37.43
625.58	S	-59.18	-62.18	5.69	-2.70	-13.00	-46.18
775.93	S	-58.64	-61.39	5.52	-2.76	-13.00	-45.64

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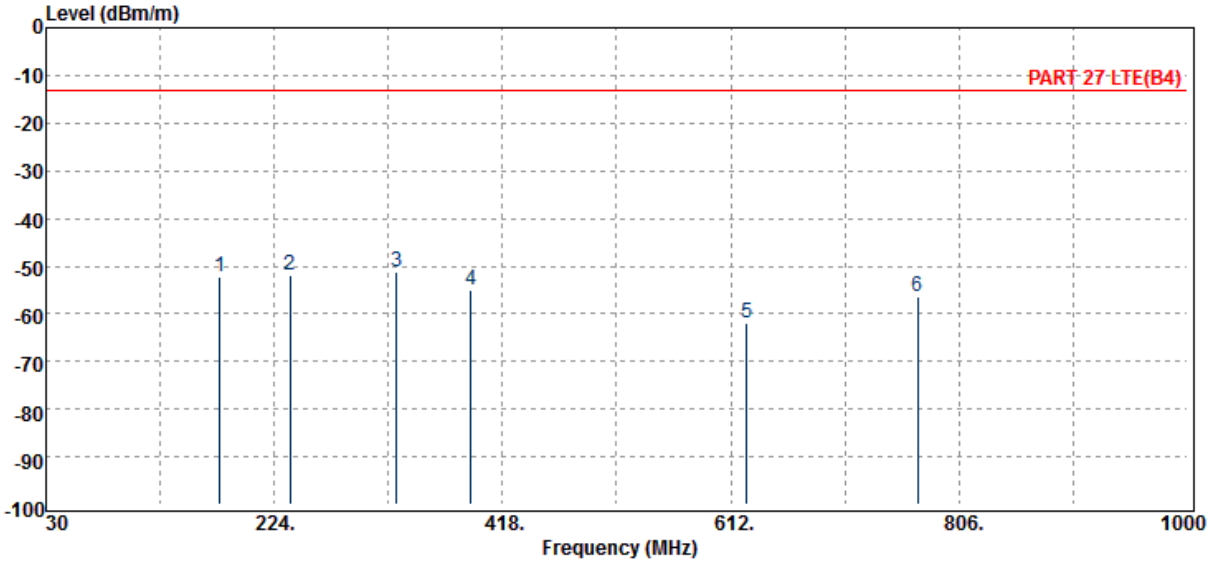
ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
177.44	S	-52.10	-53.31	2.71	-1.50	-13.00	-39.10
237.58	S	-51.89	-55.73	5.44	-1.60	-13.00	-38.89
327.79	S	-51.17	-55.14	5.85	-1.89	-13.00	-38.17
390.84	S	-55.03	-58.88	5.80	-1.95	-13.00	-42.03
625.58	S	-61.96	-64.95	5.69	-2.70	-13.00	-48.96
771.08	S	-56.26	-59.02	5.50	-2.75	-13.00	-43.26

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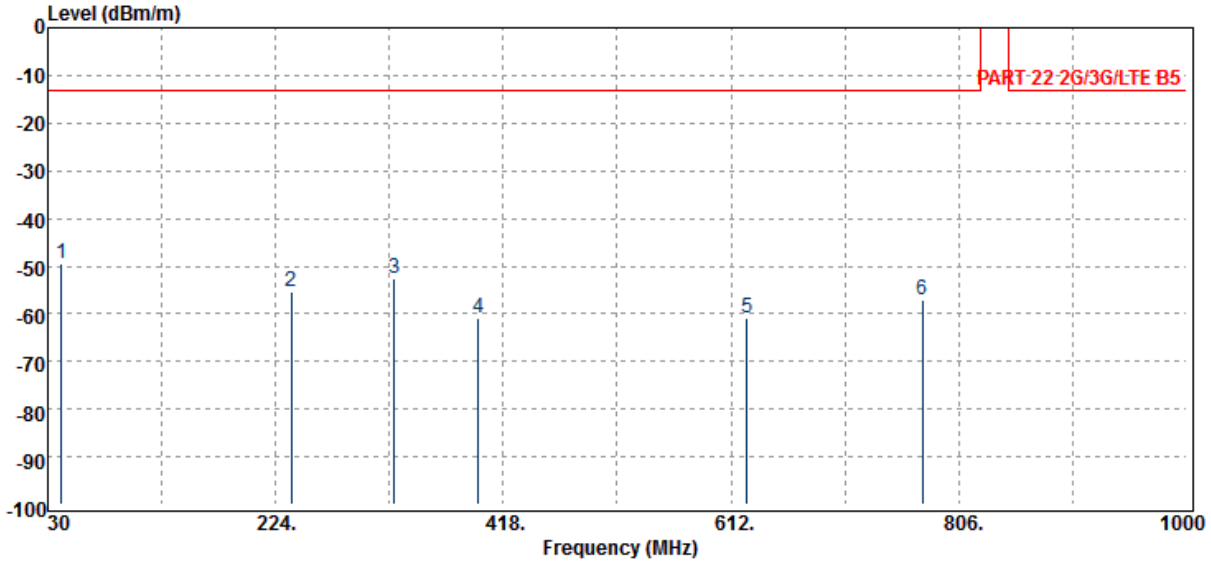
Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5 (The Worst Case)

ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-49.49	-36.01	-12.63	-0.84	-13.00	-36.49
237.58	S	-55.48	-57.17	3.29	-1.60	-13.00	-42.48
324.88	S	-52.74	-54.55	3.69	-1.88	-13.00	-39.74
396.66	S	-60.94	-62.62	3.63	-1.95	-13.00	-47.94
625.58	S	-61.01	-61.85	3.54	-2.70	-13.00	-48.01
774.96	S	-57.00	-57.61	3.36	-2.76	-13.00	-44.00

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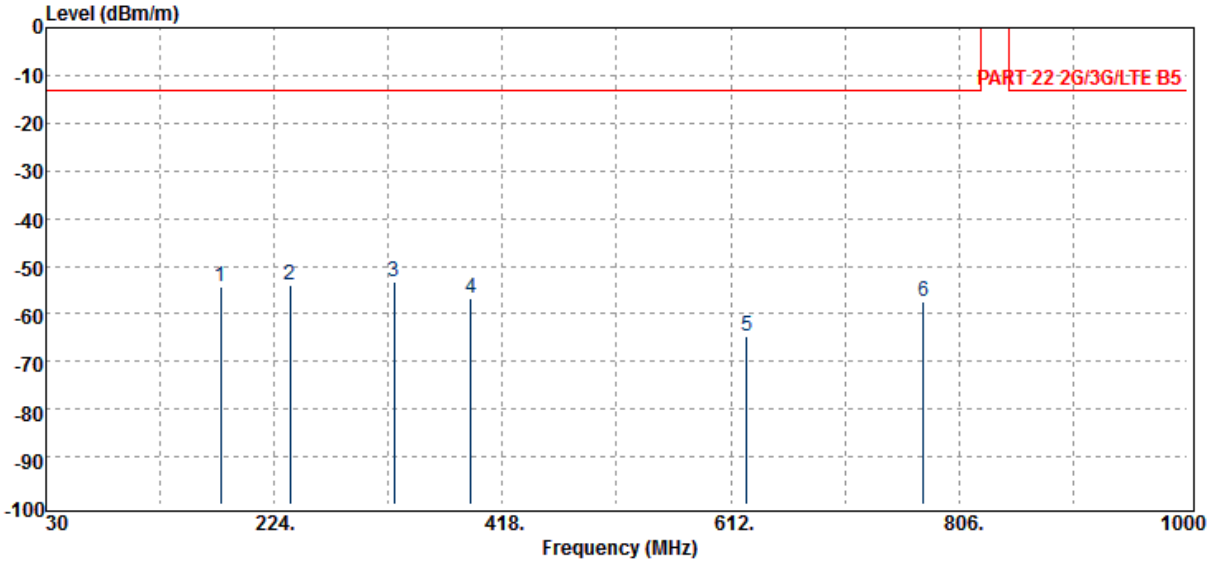
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
178.41	S	-54.22	-53.45	0.72	-1.50	-13.00	-41.22
237.58	S	-54.09	-55.78	3.29	-1.60	-13.00	-41.09
325.85	S	-53.24	-55.06	3.70	-1.88	-13.00	-40.24
390.84	S	-56.90	-58.60	3.65	-1.95	-13.00	-43.90
625.58	S	-64.63	-65.48	3.54	-2.70	-13.00	-51.63
775.93	S	-57.50	-58.10	3.37	-2.76	-13.00	-44.50

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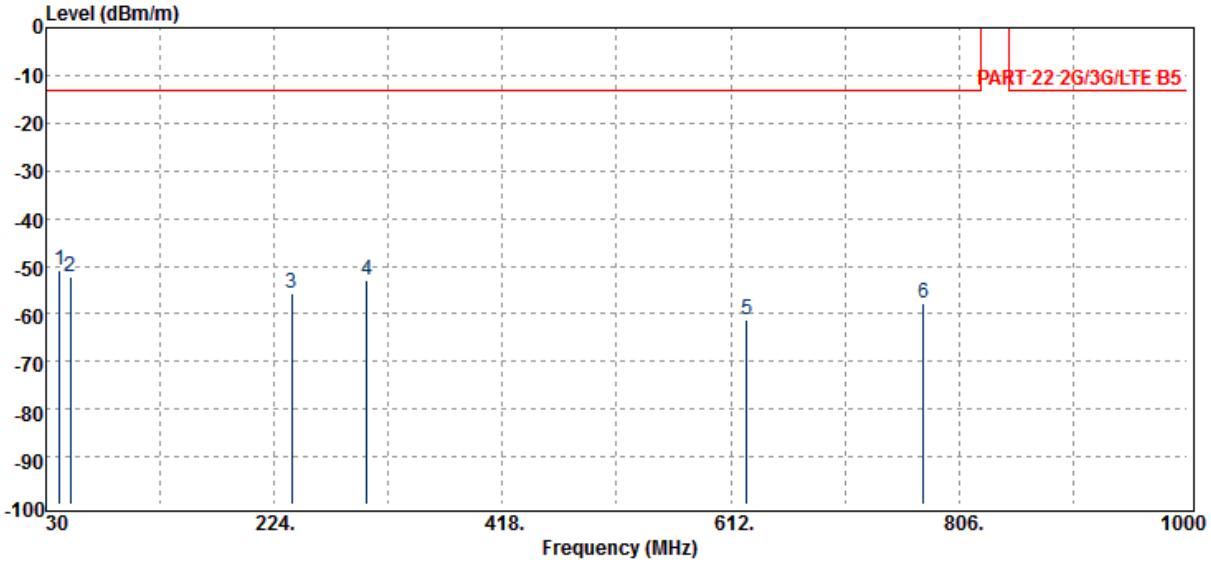
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-50.70	-37.22	-12.63	-0.84	-13.00	-37.70
50.37	S	-52.39	-40.15	-11.33	-0.91	-13.00	-39.39
238.55	S	-55.67	-57.35	3.29	-1.60	-13.00	-42.67
302.57	S	-53.10	-54.94	3.63	-1.80	-13.00	-40.10
625.58	S	-61.09	-61.93	3.54	-2.70	-13.00	-48.09
775.93	S	-57.71	-58.32	3.37	-2.76	-13.00	-44.71

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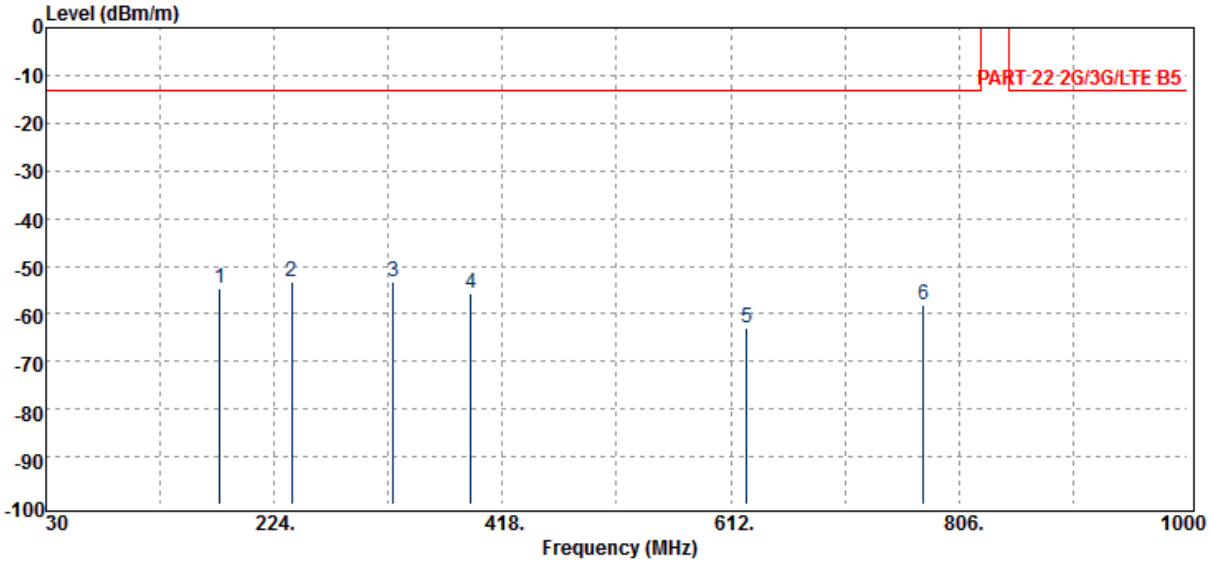
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
177.44	S	-54.55	-53.62	0.56	-1.50	-13.00	-41.55
238.55	S	-53.35	-55.03	3.29	-1.60	-13.00	-40.35
324.88	S	-53.30	-55.11	3.69	-1.88	-13.00	-40.30
390.84	S	-55.64	-57.34	3.65	-1.95	-13.00	-42.64
625.58	S	-63.08	-63.93	3.54	-2.70	-13.00	-50.08
775.93	S	-58.29	-58.89	3.37	-2.76	-13.00	-45.29

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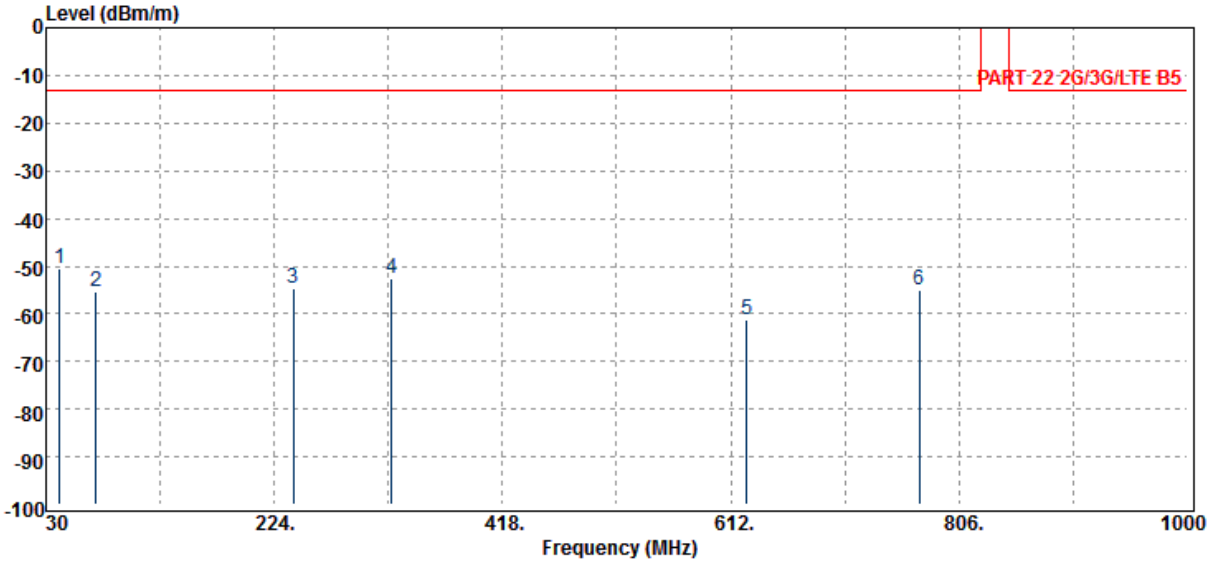
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-50.45	-36.97	-12.63	-0.84	-13.00	-37.45
72.68	S	-55.35	-49.37	-4.96	-1.02	-13.00	-42.35
240.49	S	-54.81	-56.49	3.29	-1.61	-13.00	-41.81
323.91	S	-52.49	-54.31	3.69	-1.88	-13.00	-39.49
625.58	S	-61.28	-62.12	3.54	-2.70	-13.00	-48.28
772.05	S	-55.04	-55.64	3.35	-2.75	-13.00	-42.04

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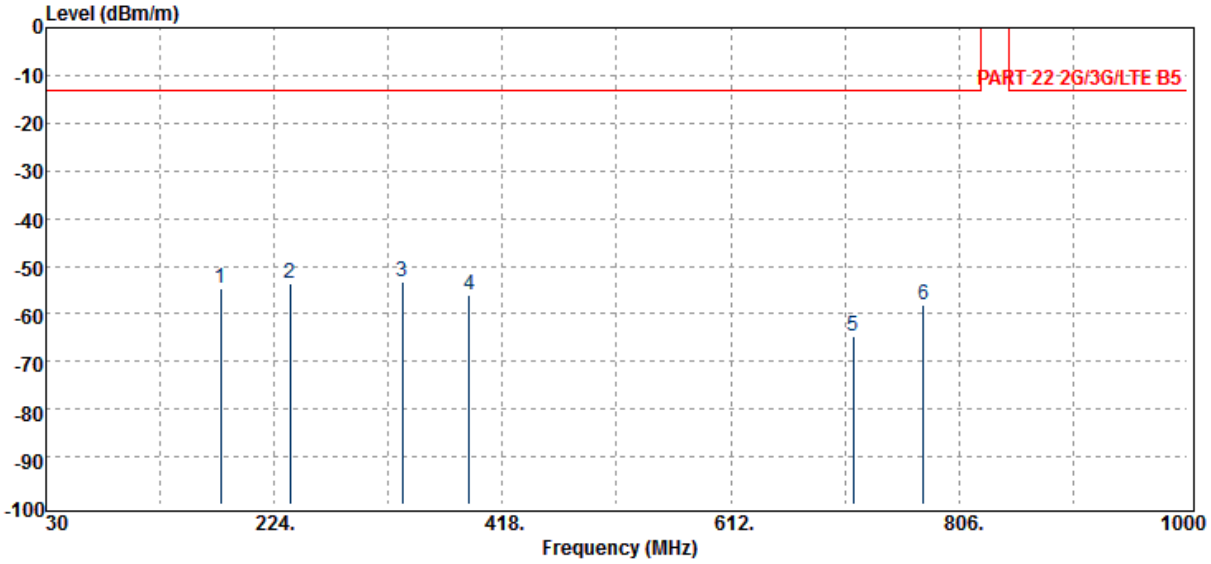
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
178.41	S	-54.82	-54.05	0.72	-1.50	-13.00	-41.82
237.58	S	-53.64	-55.33	3.29	-1.60	-13.00	-40.64
332.64	S	-53.13	-54.94	3.72	-1.91	-13.00	-40.13
389.87	S	-56.16	-57.86	3.65	-1.95	-13.00	-43.16
715.79	S	-64.83	-65.57	3.35	-2.61	-13.00	-51.83
775.93	S	-58.05	-58.65	3.37	-2.76	-13.00	-45.05

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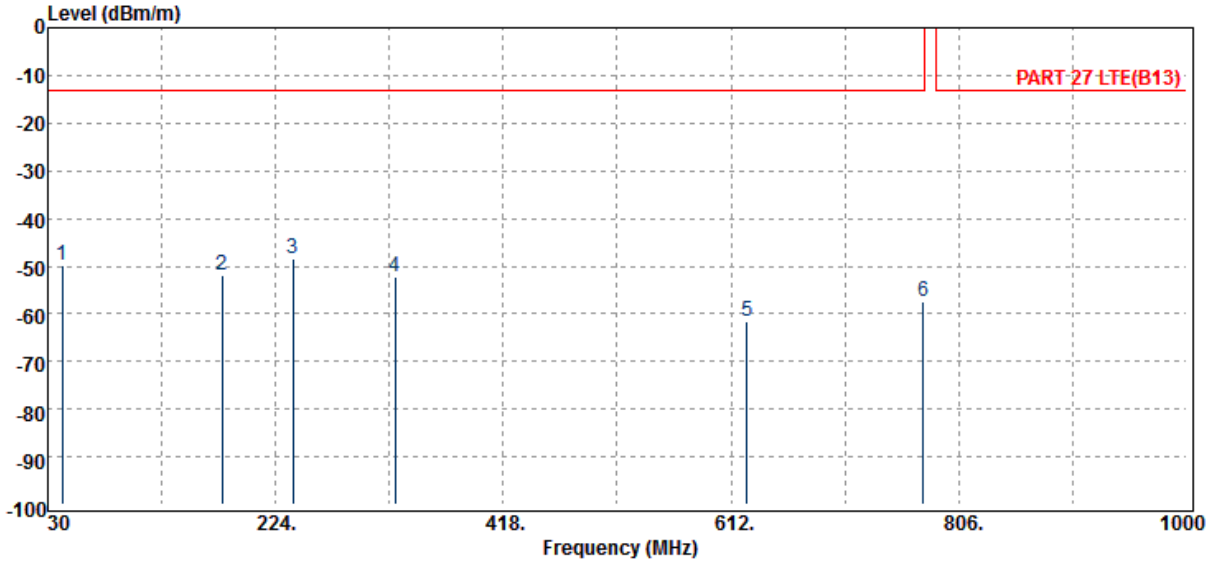
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-49.73	-36.33	-12.55	-0.85	-13.00	-36.73
178.41	S	-52.03	-51.26	0.72	-1.50	-13.00	-39.03
238.55	S	-48.27	-49.96	3.29	-1.60	-13.00	-35.27
325.85	S	-52.29	-54.11	3.70	-1.88	-13.00	-39.29
625.58	S	-61.63	-62.47	3.54	-2.70	-13.00	-48.63
775.93	S	-57.43	-58.03	3.37	-2.76	-13.00	-44.43

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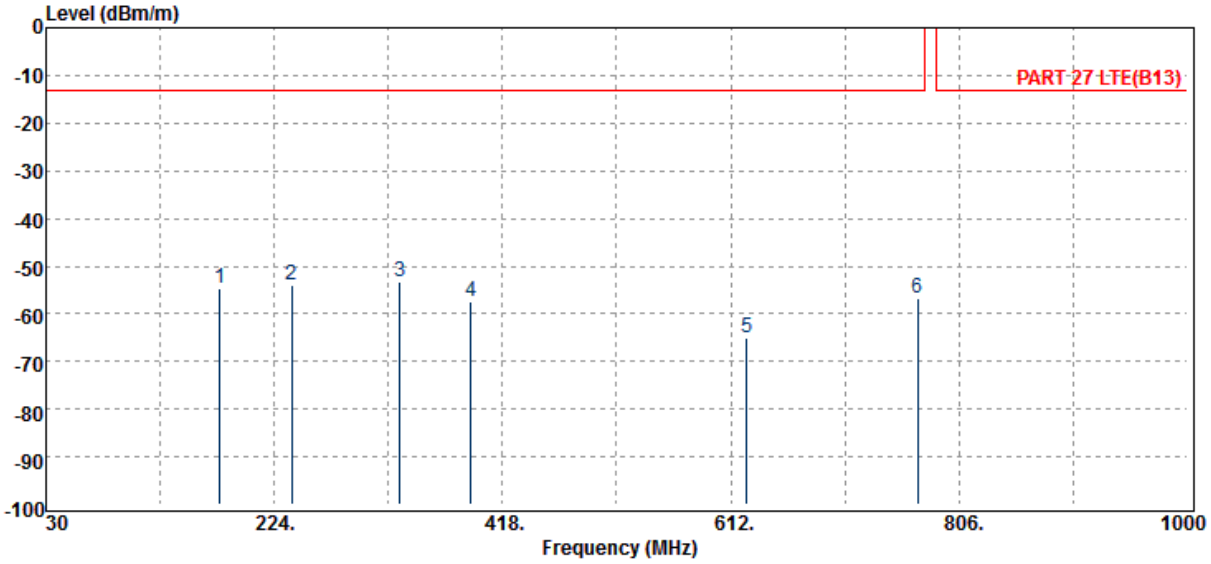
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
177.44	S	-54.74	-53.80	0.56	-1.50	-13.00	-41.74
238.55	S	-54.11	-55.79	3.29	-1.60	-13.00	-41.11
330.70	S	-53.41	-55.22	3.71	-1.90	-13.00	-40.41
390.84	S	-57.27	-58.96	3.65	-1.95	-13.00	-44.27
625.58	S	-65.04	-65.89	3.54	-2.70	-13.00	-52.04
771.08	S	-56.87	-57.48	3.35	-2.75	-13.00	-43.87

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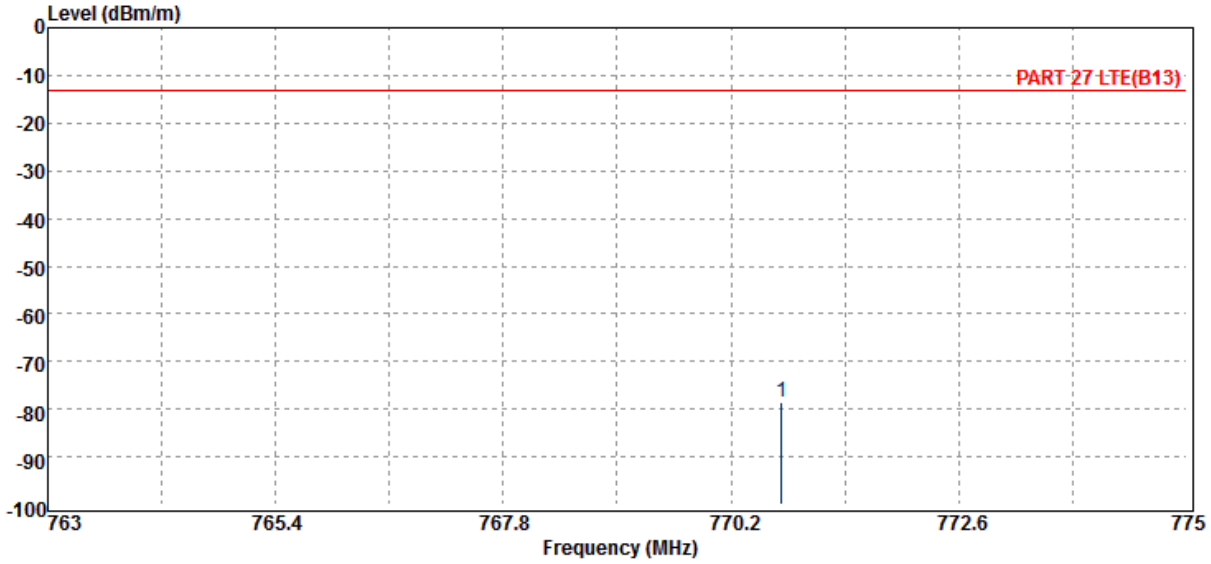
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(763MHz-755MHz)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
770.73	S	-78.49	-79.10	3.35	-2.75	-13.00	-65.49

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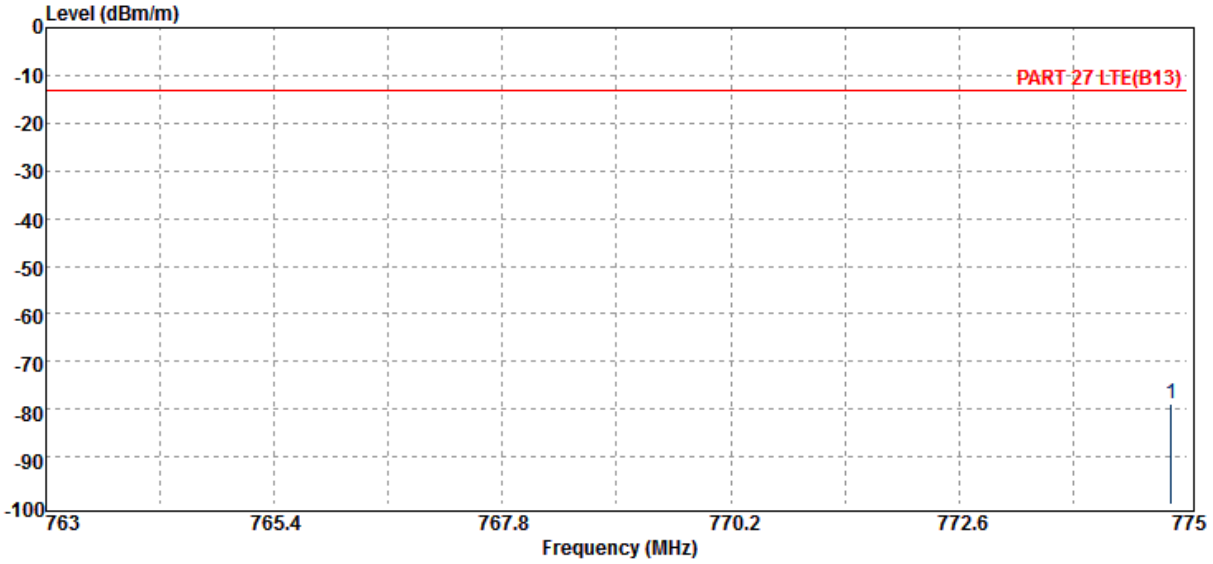
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
774.83	S	-79.03	-79.63	3.36	-2.76	-13.00	-66.03

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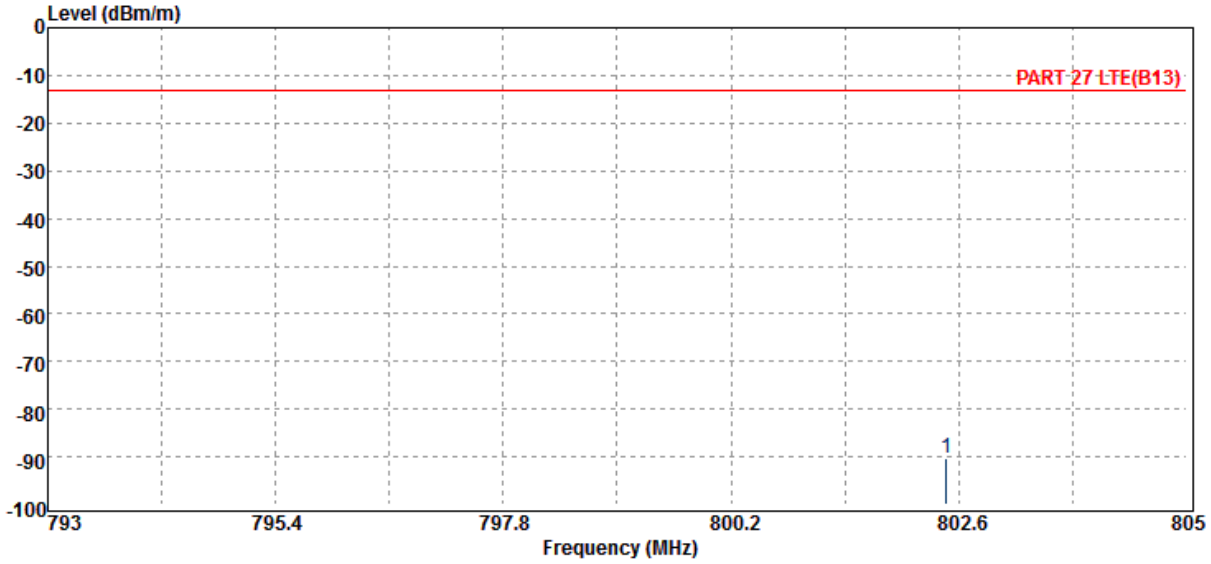
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(793MHz-805MHz)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
802.47	S	-90.47	-91.06	3.44	-2.86	-13.00	-77.47

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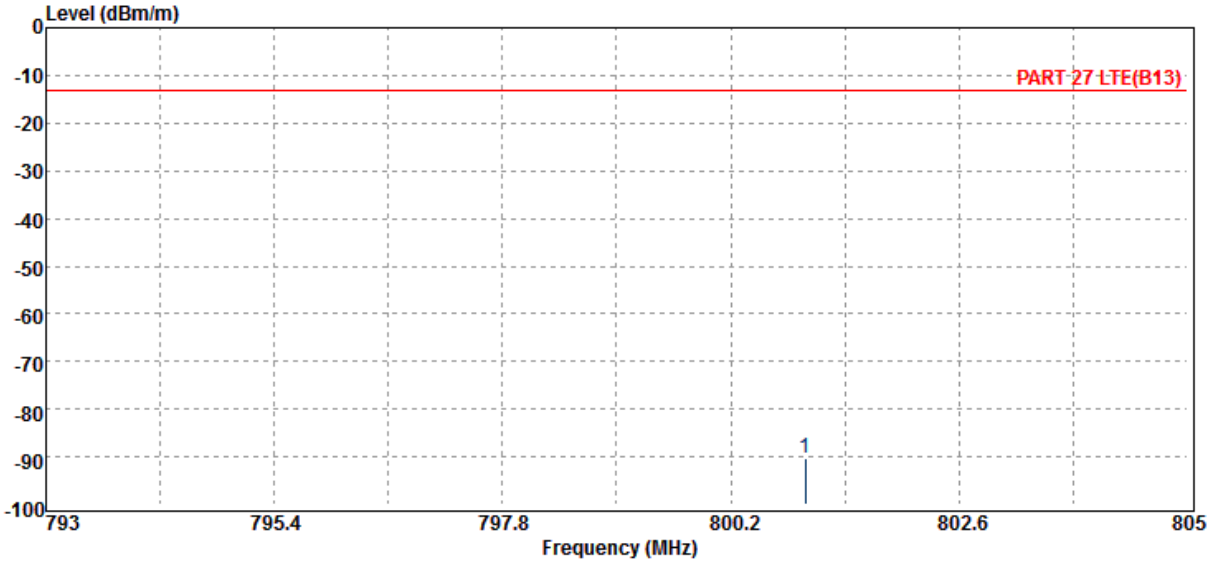
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
800.98	S	-90.35	-90.93	3.44	-2.86	-13.00	-77.35

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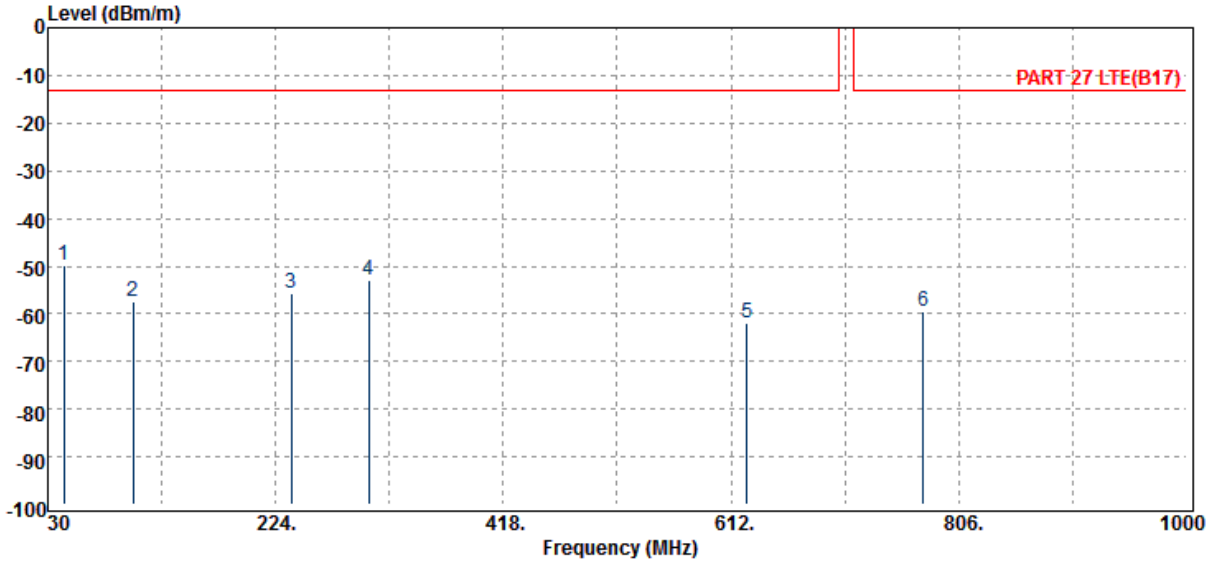
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-49.98	-36.65	-12.47	-0.86	-13.00	-36.98
102.75	S	-57.47	-54.61	-1.74	-1.13	-13.00	-44.47
237.58	S	-55.61	-57.30	3.29	-1.60	-13.00	-42.61
303.54	S	-53.05	-54.88	3.63	-1.80	-13.00	-40.05
625.58	S	-62.00	-62.84	3.54	-2.70	-13.00	-49.00
775.93	S	-59.45	-60.05	3.37	-2.76	-13.00	-46.45

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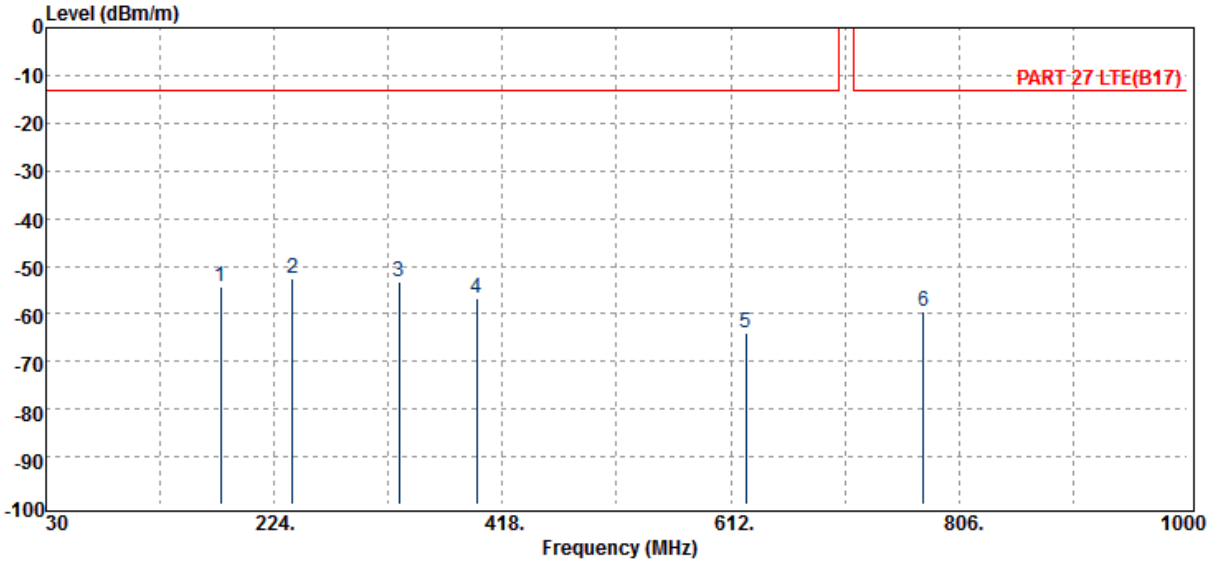
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
178.41	S	-54.32	-53.55	0.72	-1.50	-13.00	-41.32
239.52	S	-52.43	-54.11	3.29	-1.61	-13.00	-39.43
329.73	S	-53.14	-54.95	3.71	-1.90	-13.00	-40.14
395.69	S	-56.66	-58.34	3.63	-1.95	-13.00	-43.66
624.61	S	-63.88	-64.72	3.54	-2.70	-13.00	-50.88
775.93	S	-59.41	-60.01	3.37	-2.76	-13.00	-46.41

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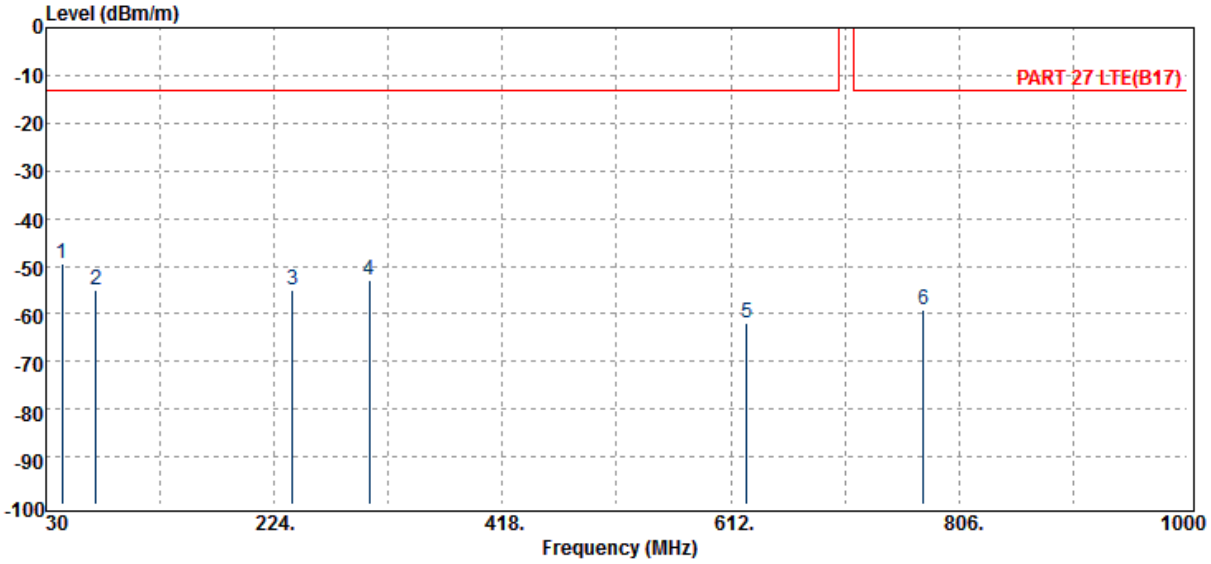
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-49.45	-36.12	-12.47	-0.86	-13.00	-36.45
72.68	S	-55.10	-49.12	-4.96	-1.02	-13.00	-42.10
239.52	S	-54.94	-56.62	3.29	-1.61	-13.00	-41.94
304.51	S	-52.78	-54.61	3.64	-1.80	-13.00	-39.78
625.58	S	-61.99	-62.84	3.54	-2.70	-13.00	-48.99
775.93	S	-59.17	-59.77	3.37	-2.76	-13.00	-46.17

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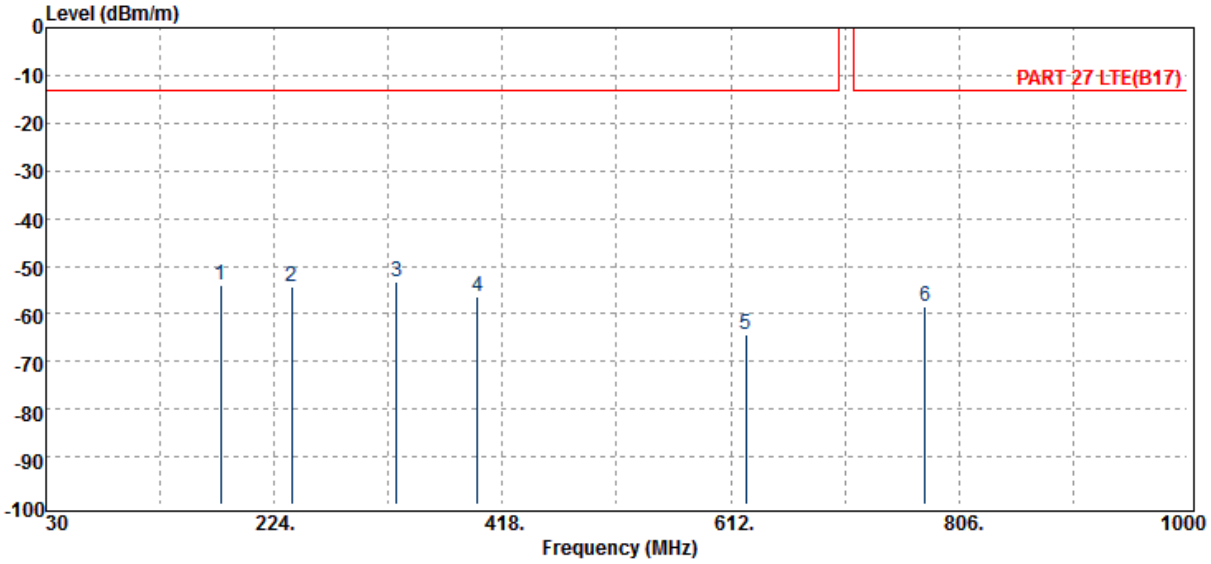
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
178.41	S	-54.08	-53.30	0.72	-1.50	-13.00	-41.08
238.55	S	-54.42	-56.11	3.29	-1.60	-13.00	-41.42
327.79	S	-53.39	-55.20	3.70	-1.89	-13.00	-40.39
396.66	S	-56.52	-58.20	3.63	-1.95	-13.00	-43.52
624.61	S	-64.31	-65.15	3.54	-2.70	-13.00	-51.31
776.90	S	-58.58	-59.18	3.37	-2.77	-13.00	-45.58

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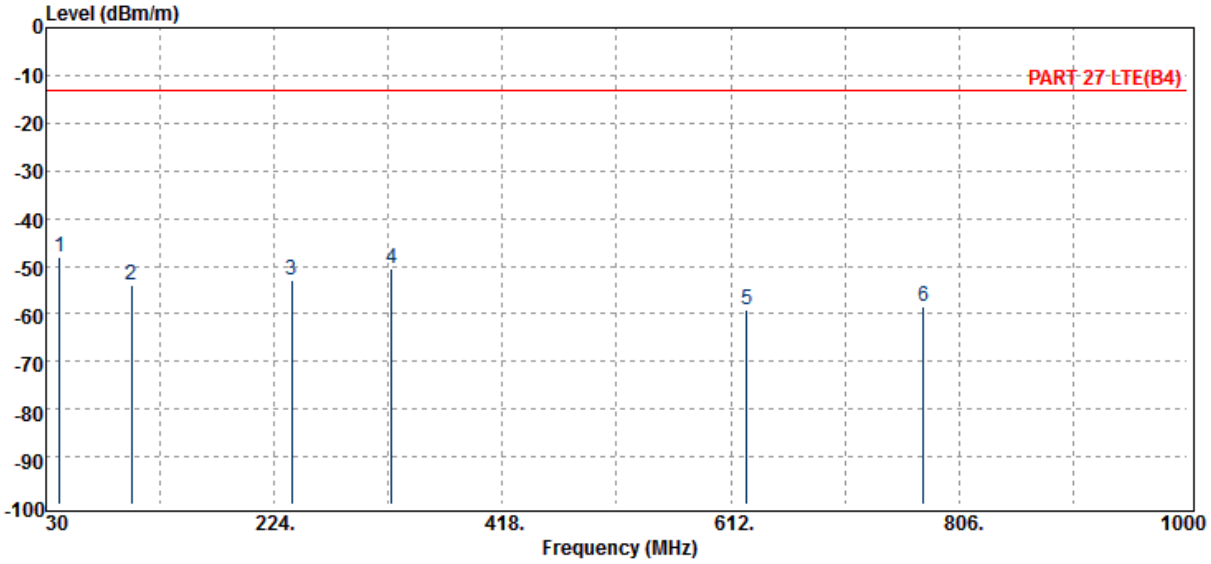
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-49.92	-36.59	-12.47	-0.86	-13.00	-36.92
108.57	S	-56.61	-53.28	-2.19	-1.15	-13.00	-43.61
238.55	S	-55.22	-56.91	3.29	-1.60	-13.00	-42.22
324.88	S	-52.90	-54.71	3.69	-1.88	-13.00	-39.90
624.61	S	-62.06	-62.89	3.54	-2.70	-13.00	-49.06
774.96	S	-54.92	-55.52	3.36	-2.76	-13.00	-41.92

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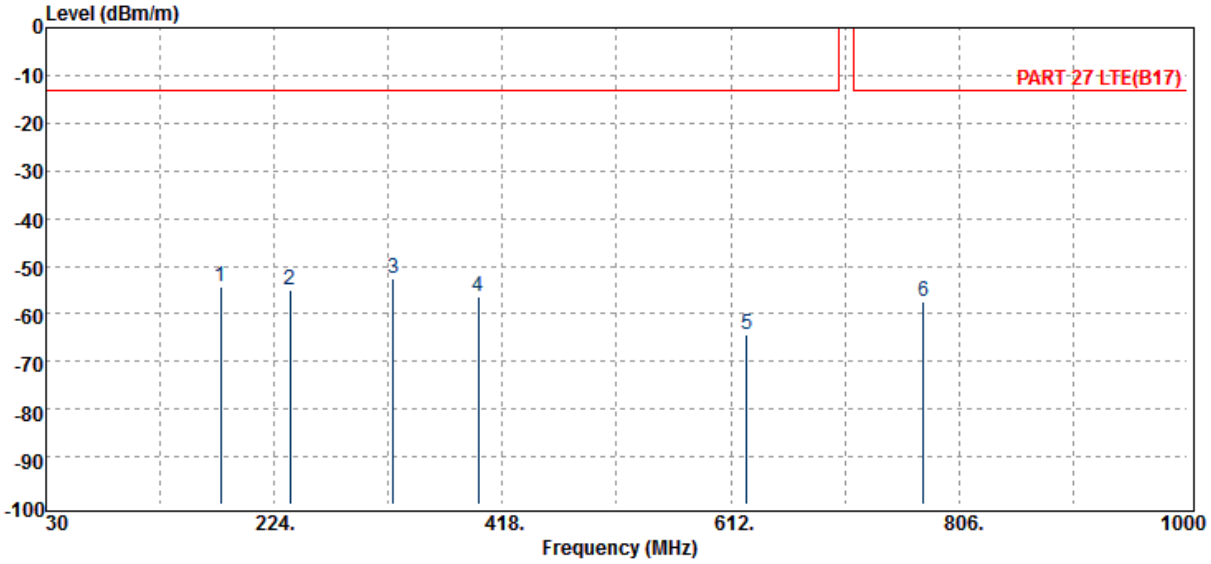
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
178.41	S	-54.28	-53.50	0.72	-1.50	-13.00	-41.28
237.58	S	-54.88	-56.57	3.29	-1.60	-13.00	-41.88
324.88	S	-52.57	-54.38	3.69	-1.88	-13.00	-39.57
397.63	S	-56.32	-58.00	3.63	-1.95	-13.00	-43.32
625.58	S	-64.47	-65.32	3.54	-2.70	-13.00	-51.47
775.93	S	-57.48	-58.09	3.37	-2.76	-13.00	-44.48

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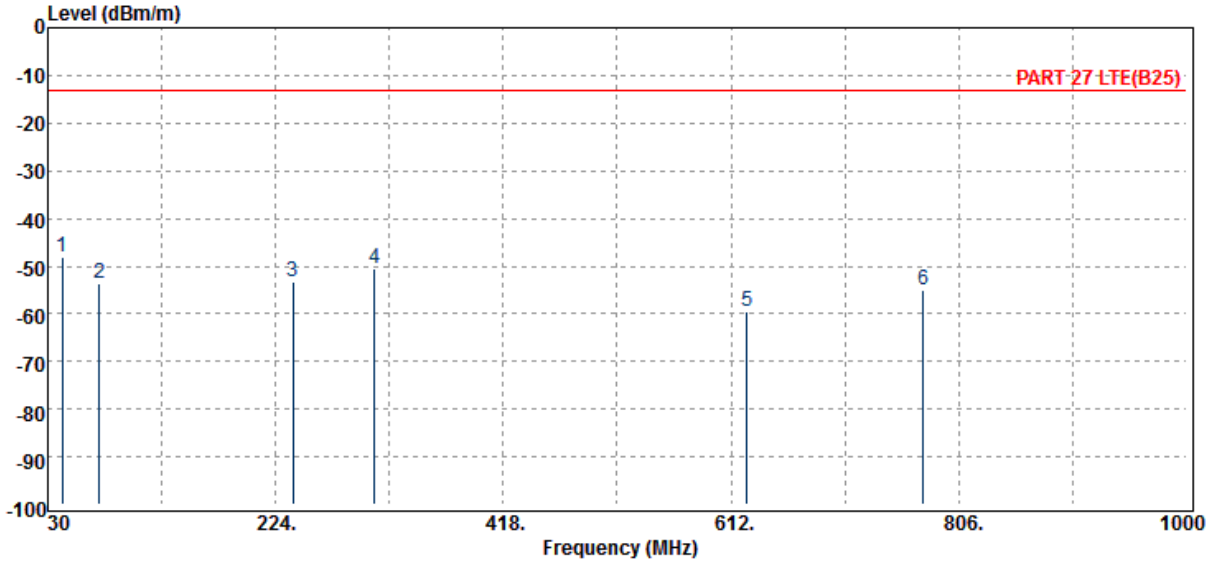
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 25 (The Worst Case)

ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-48.20	-36.95	-10.40	-0.85	-13.00	-35.20
73.65	S	-53.47	-49.94	-2.50	-1.03	-13.00	-40.47
238.55	S	-53.15	-56.98	5.44	-1.60	-13.00	-40.15
308.39	S	-50.67	-54.65	5.80	-1.82	-13.00	-37.67
625.58	S	-59.65	-62.64	5.69	-2.70	-13.00	-46.65
775.93	S	-55.04	-57.79	5.52	-2.76	-13.00	-42.04

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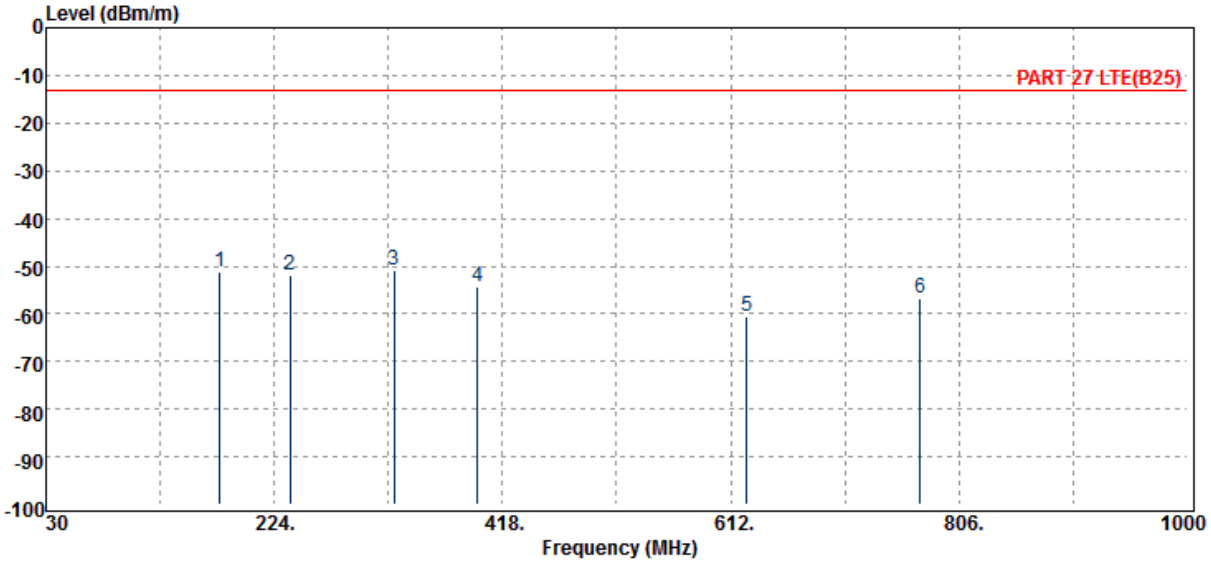
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
177.44	S	-51.24	-52.45	2.71	-1.50	-13.00	-38.24
237.58	S	-51.91	-55.75	5.44	-1.60	-13.00	-38.91
325.85	S	-50.88	-54.85	5.85	-1.88	-13.00	-37.88
396.66	S	-54.42	-58.25	5.78	-1.95	-13.00	-41.42
625.58	S	-60.49	-63.48	5.69	-2.70	-13.00	-47.49
773.02	S	-56.81	-59.56	5.51	-2.75	-13.00	-43.81

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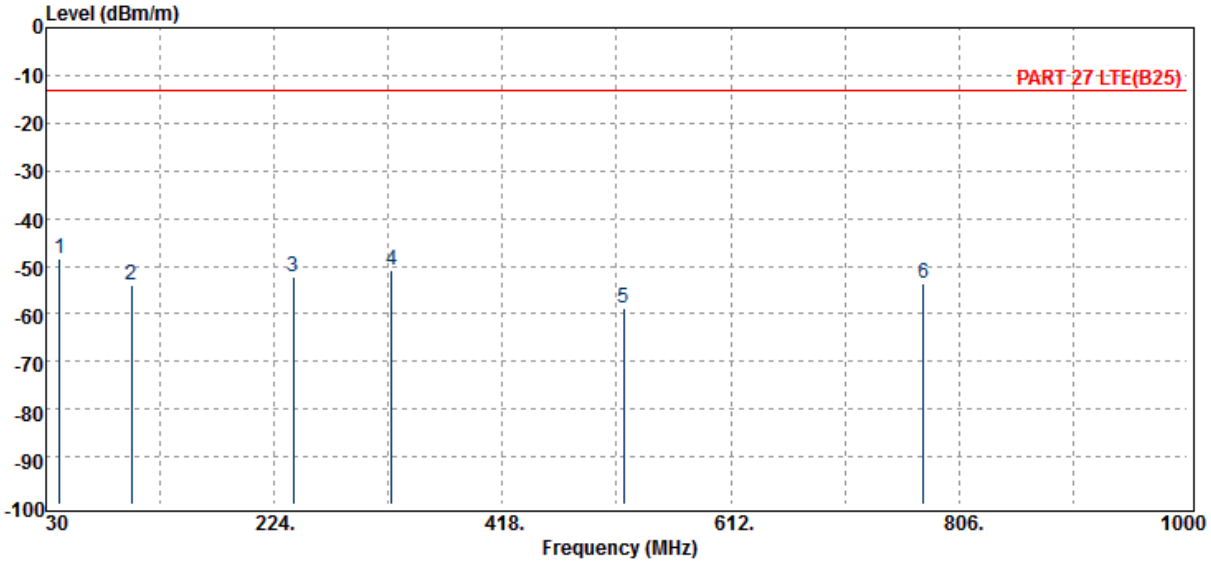
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-48.42	-37.09	-10.48	-0.84	-13.00	-35.42
102.75	S	-54.13	-53.42	0.41	-1.13	-13.00	-41.13
240.49	S	-52.30	-56.14	5.44	-1.61	-13.00	-39.30
323.91	S	-50.72	-54.68	5.84	-1.88	-13.00	-37.72
520.82	S	-58.74	-62.16	5.84	-2.42	-13.00	-45.74
775.93	S	-53.73	-56.48	5.52	-2.76	-13.00	-40.73

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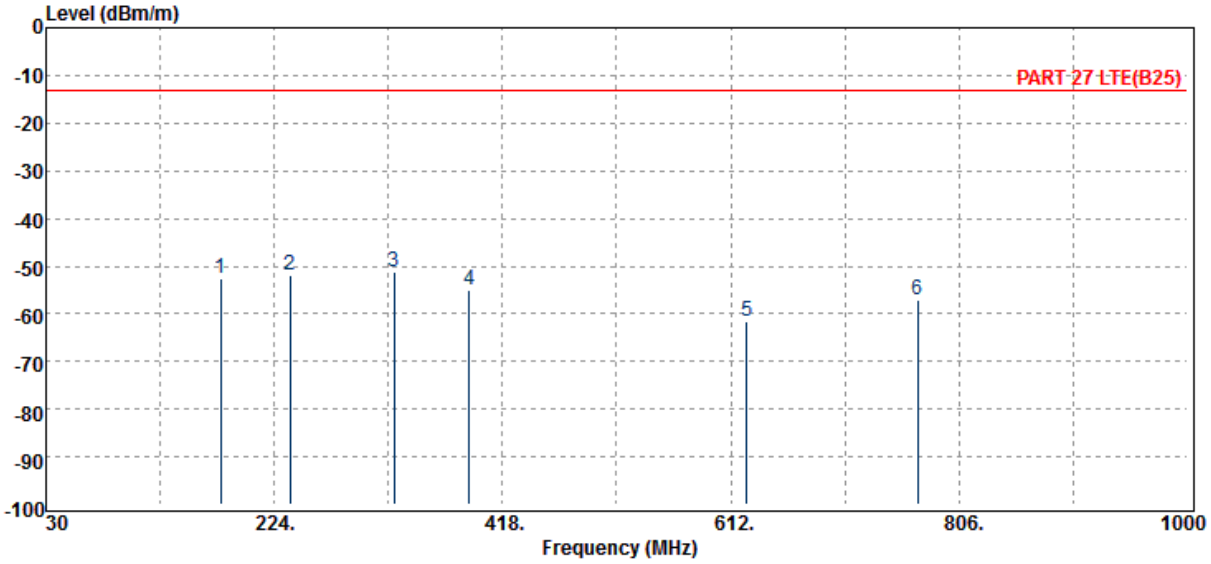
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
178.41	S	-52.63	-54.01	2.87	-1.50	-13.00	-39.63
237.58	S	-51.88	-55.72	5.44	-1.60	-13.00	-38.88
325.85	S	-51.12	-55.08	5.85	-1.88	-13.00	-38.12
389.87	S	-54.91	-58.76	5.80	-1.95	-13.00	-41.91
625.58	S	-61.58	-64.57	5.69	-2.70	-13.00	-48.58
771.08	S	-57.00	-59.75	5.50	-2.75	-13.00	-44.00

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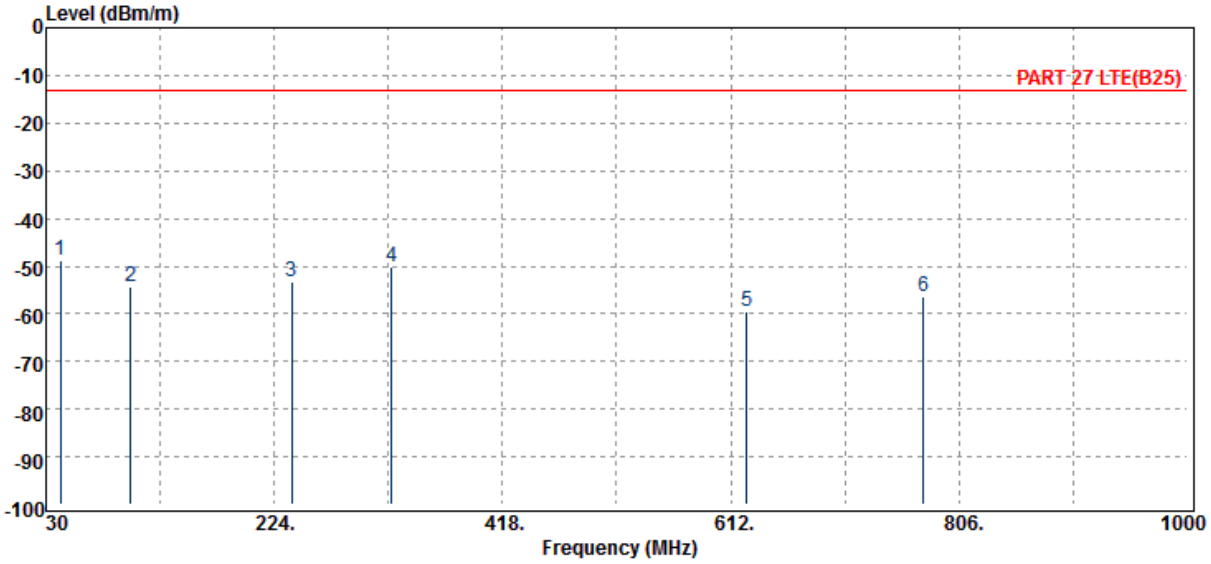
ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-48.73	-37.48	-10.40	-0.85	-13.00	-35.73
101.78	S	-54.33	-53.69	0.49	-1.13	-13.00	-41.33
238.55	S	-53.34	-57.18	5.44	-1.60	-13.00	-40.34
323.91	S	-50.14	-54.11	5.84	-1.88	-13.00	-37.14
625.58	S	-59.61	-62.61	5.69	-2.70	-13.00	-46.61
775.93	S	-56.24	-58.99	5.52	-2.76	-13.00	-43.24

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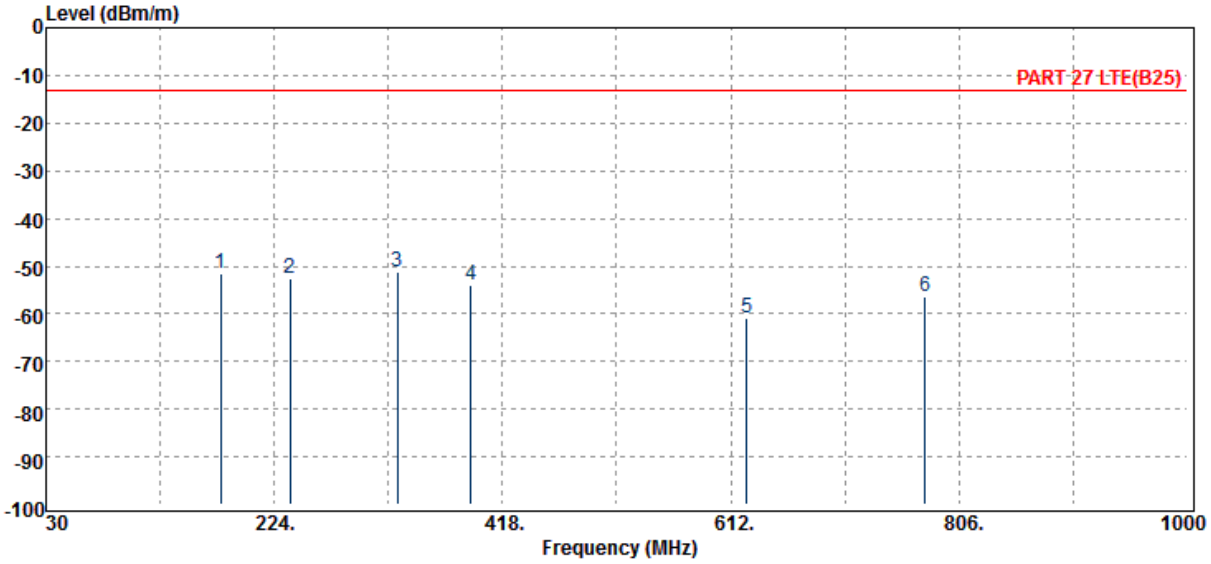
ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
178.41	S	-51.72	-53.10	2.87	-1.50	-13.00	-38.72
237.58	S	-52.45	-56.29	5.44	-1.60	-13.00	-39.45
328.76	S	-51.16	-55.12	5.85	-1.89	-13.00	-38.16
390.84	S	-53.90	-57.75	5.80	-1.95	-13.00	-40.90
625.58	S	-61.06	-64.06	5.69	-2.70	-13.00	-48.06
776.90	S	-56.37	-59.12	5.52	-2.77	-13.00	-43.37

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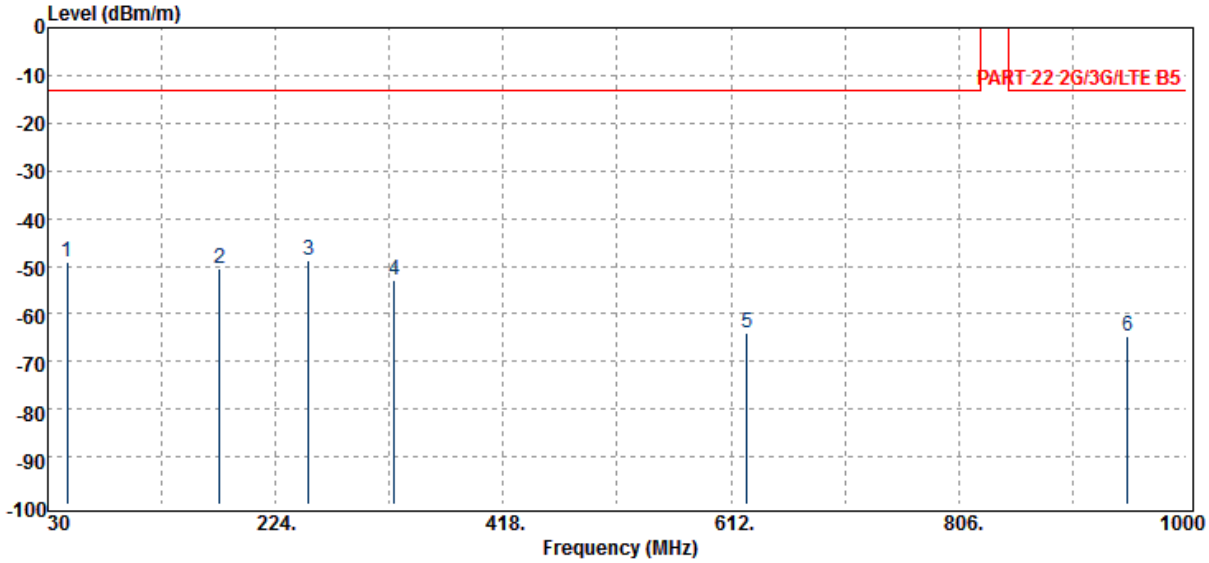
***Antenna Model No.: TRA6927M3**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-49.16	-36.20	-12.07	-0.88	-13.00	-36.16
176.47	S	-50.49	-49.39	0.40	-1.49	-13.00	-37.49
252.13	S	-48.88	-50.73	3.49	-1.64	-13.00	-35.88
324.88	S	-52.81	-54.62	3.69	-1.88	-13.00	-39.81
625.58	S	-63.95	-64.80	3.54	-2.70	-13.00	-50.95
949.56	S	-64.76	-64.79	3.23	-3.20	-13.00	-51.76

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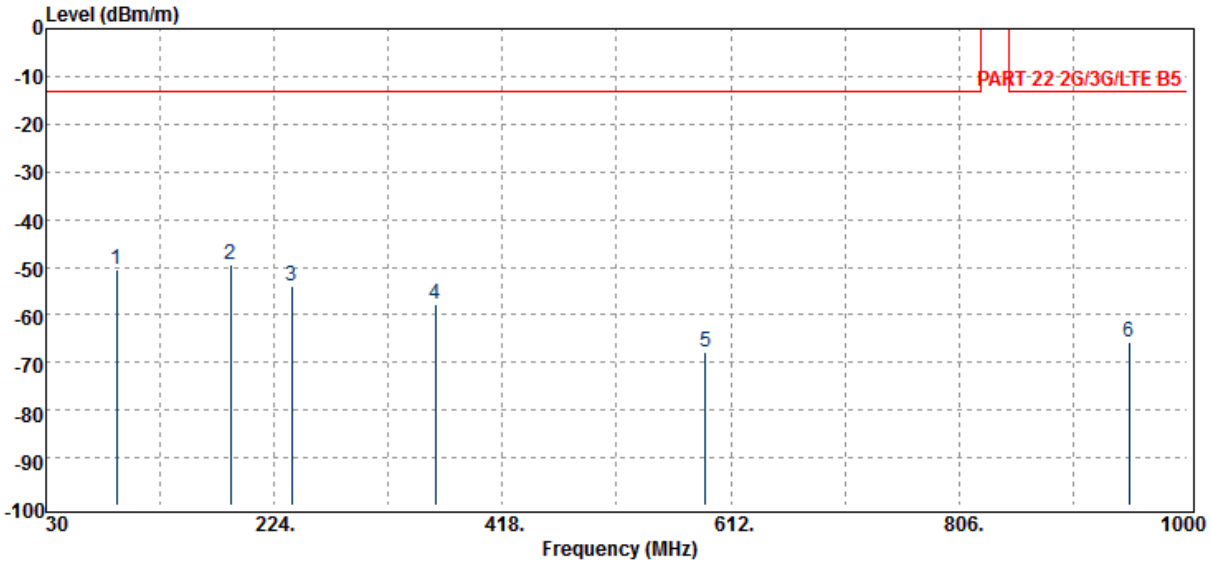
ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
90.14	S	-50.42	-48.88	-0.45	-1.09	-13.00	-37.42
187.14	S	-49.55	-50.23	2.19	-1.51	-13.00	-36.55
238.55	S	-53.87	-55.56	3.29	-1.60	-13.00	-40.87
360.77	S	-57.84	-59.61	3.73	-1.96	-13.00	-44.84
590.66	S	-67.71	-68.41	3.47	-2.77	-13.00	-54.71
950.53	S	-65.82	-65.82	3.20	-3.20	-13.00	-52.82

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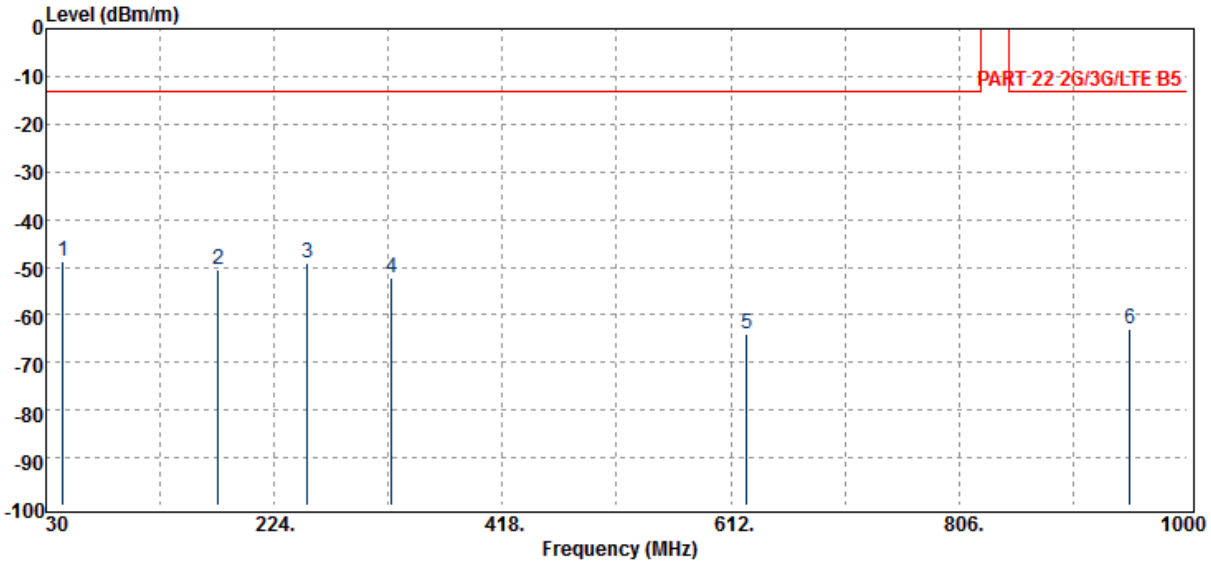
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
44.55	S	-48.76	-35.50	-12.39	-0.87	-13.00	-35.76
176.47	S	-50.39	-49.29	0.40	-1.49	-13.00	-37.39
252.13	S	-49.30	-51.15	3.49	-1.64	-13.00	-36.30
323.91	S	-52.15	-53.96	3.69	-1.88	-13.00	-39.15
625.58	S	-64.13	-64.98	3.54	-2.70	-13.00	-51.13

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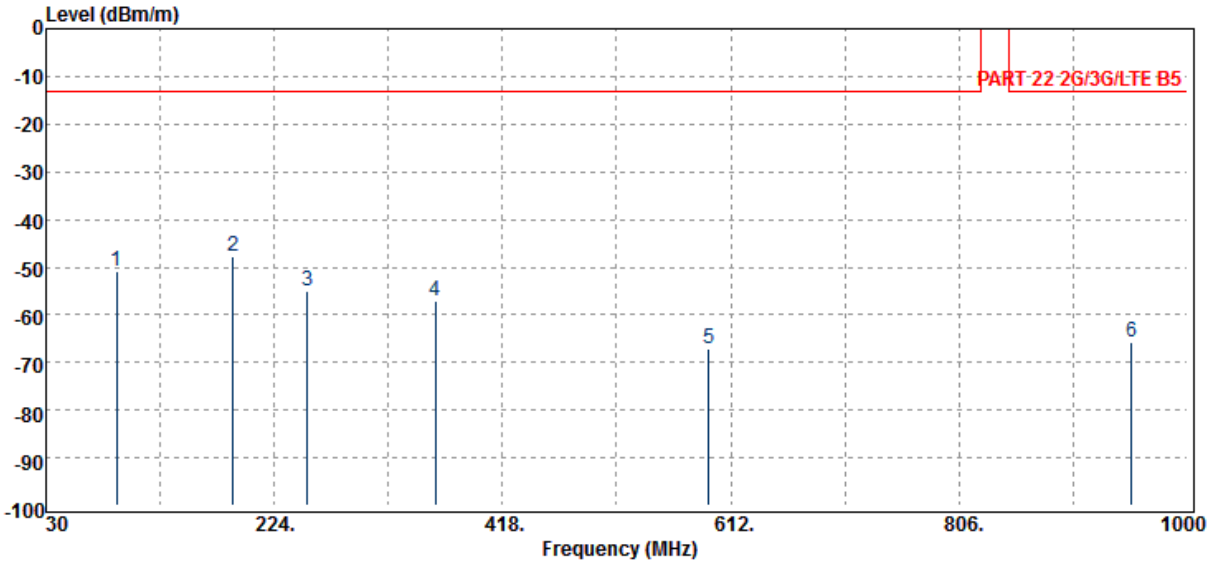
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
90.14	S	-50.95	-49.41	-0.45	-1.09	-13.00	-37.95
189.08	S	-47.80	-48.79	2.51	-1.52	-13.00	-34.80
252.13	S	-54.87	-56.72	3.49	-1.64	-13.00	-41.87
360.77	S	-57.02	-58.79	3.73	-1.96	-13.00	-44.02
593.57	S	-67.17	-67.87	3.46	-2.76	-13.00	-54.17
952.47	S	-65.67	-65.54	3.07	-3.21	-13.00	-52.67

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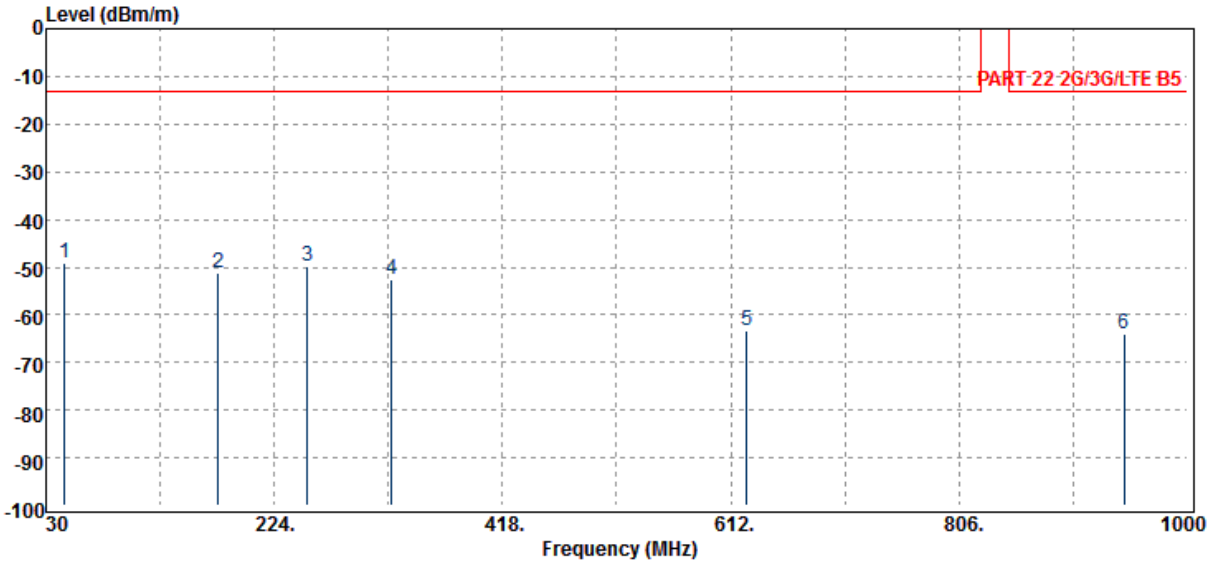
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
45.52	S	-48.97	-35.84	-12.26	-0.87	-13.00	-35.97
176.47	S	-51.22	-50.12	0.40	-1.49	-13.00	-38.22
252.13	S	-49.66	-51.51	3.49	-1.64	-13.00	-36.66
323.91	S	-52.66	-54.47	3.69	-1.88	-13.00	-39.66
625.58	S	-63.22	-64.06	3.54	-2.70	-13.00	-50.22
946.65	S	-64.16	-64.19	3.24	-3.20	-13.00	-51.16

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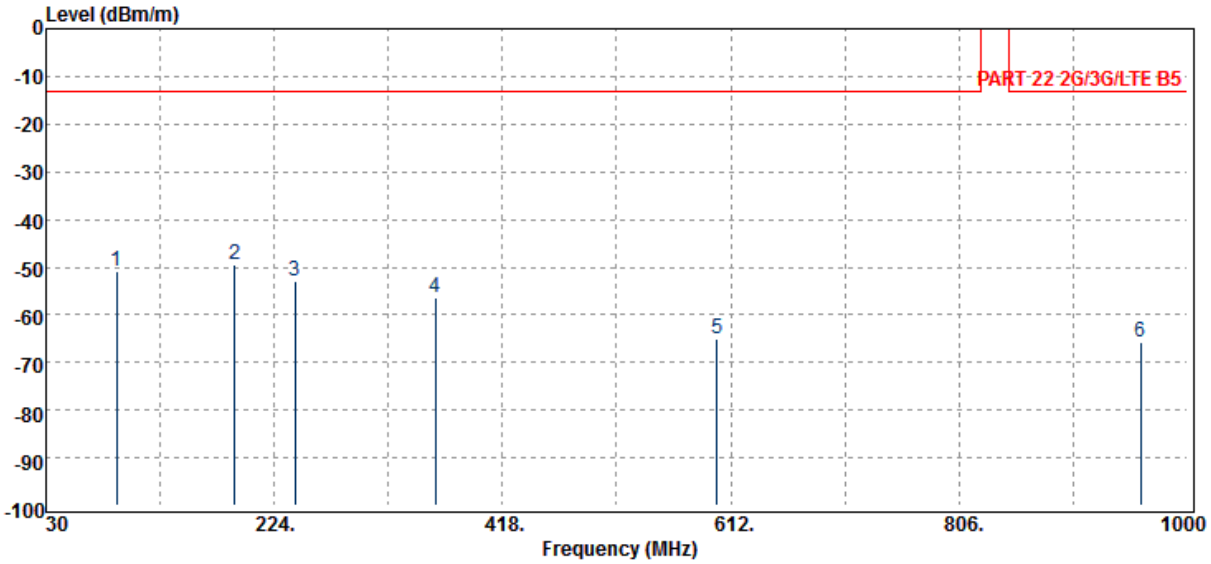
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
90.14	S	-51.03	-49.49	-0.45	-1.09	-13.00	-38.03
190.05	S	-49.56	-50.70	2.66	-1.52	-13.00	-36.56
241.46	S	-53.02	-54.72	3.31	-1.61	-13.00	-40.02
360.77	S	-56.25	-58.02	3.73	-1.96	-13.00	-43.25
600.36	S	-65.10	-65.80	3.44	-2.75	-13.00	-52.10
960.23	S	-65.61	-64.95	2.55	-3.21	-13.00	-52.61

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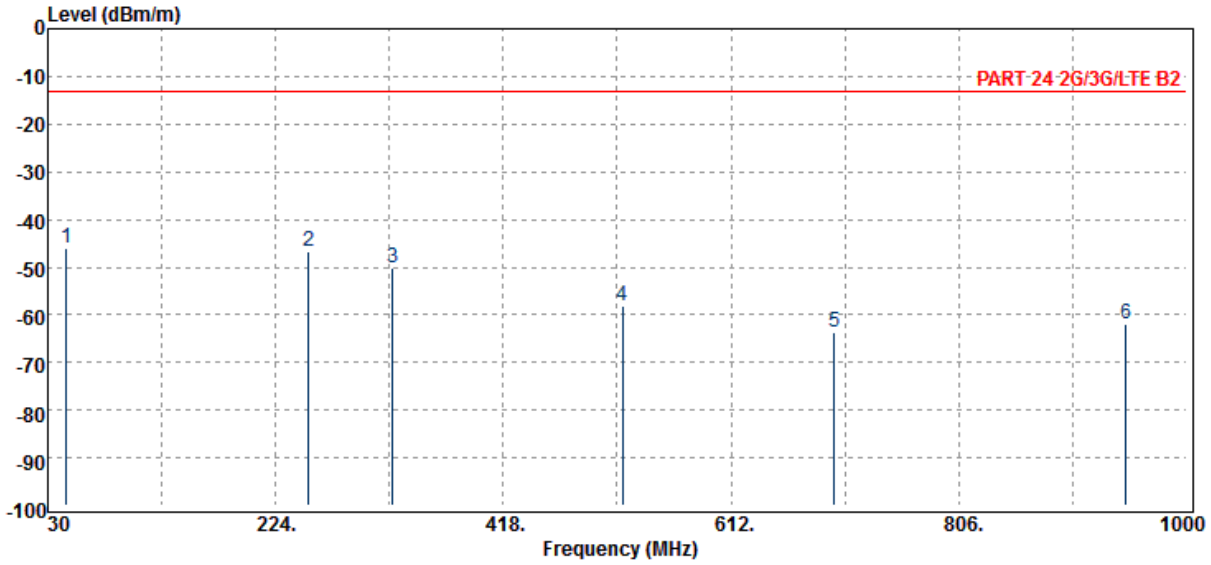
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
45.52	S	-45.97	-34.99	-10.11	-0.87	-13.00	-32.97
252.13	S	-46.66	-50.66	5.64	-1.64	-13.00	-33.66
323.91	S	-50.20	-54.17	5.84	-1.88	-13.00	-37.20
519.85	S	-58.13	-61.55	5.84	-2.41	-13.00	-45.13
700.27	S	-63.56	-66.48	5.53	-2.61	-13.00	-50.56
948.59	S	-61.81	-63.99	5.39	-3.20	-13.00	-48.81

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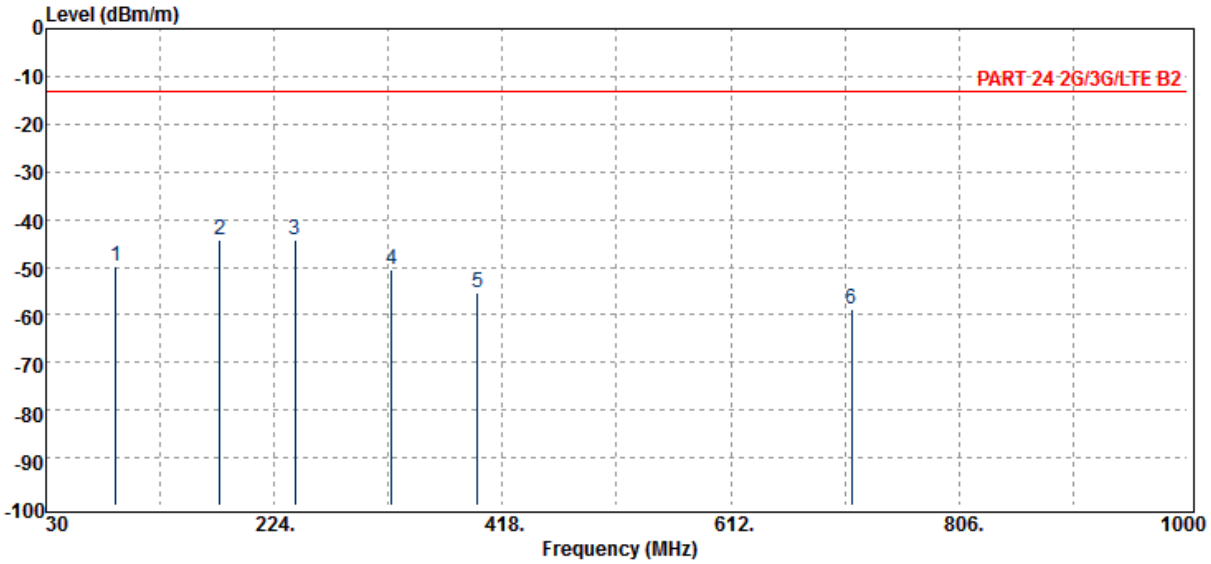
ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-49.98	-50.43	1.53	-1.09	-13.00	-36.98
177.44	S	-44.39	-45.60	2.71	-1.50	-13.00	-31.39
241.46	S	-44.37	-48.22	5.46	-1.61	-13.00	-31.37
323.91	S	-50.41	-54.38	5.84	-1.88	-13.00	-37.41
396.66	S	-55.30	-59.14	5.78	-1.95	-13.00	-42.30
714.82	S	-58.75	-61.64	5.50	-2.61	-13.00	-45.75

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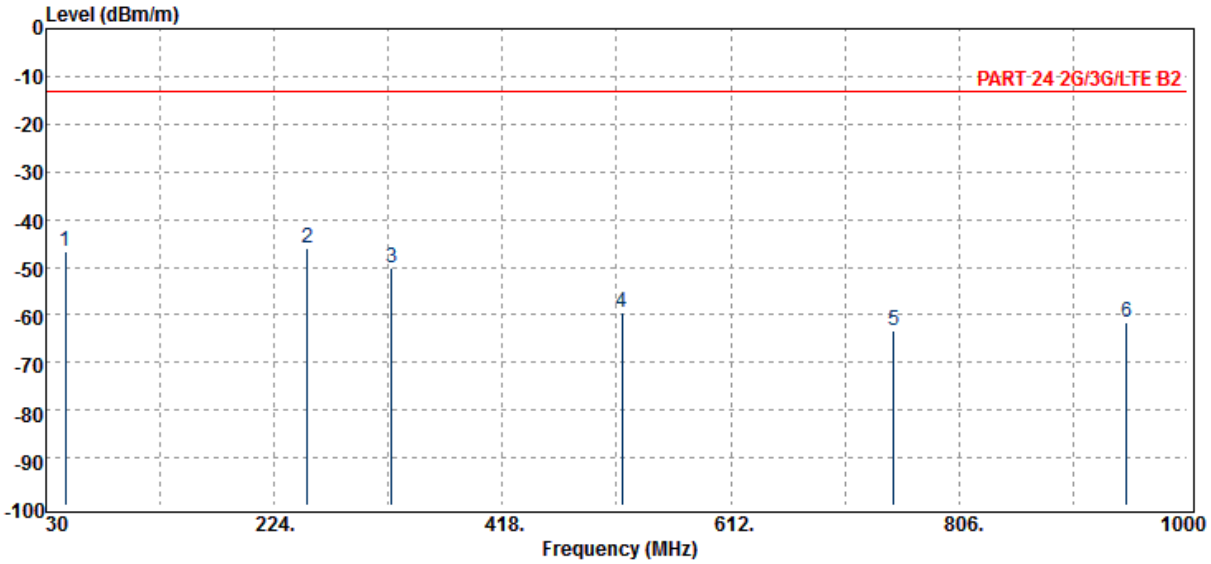
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.49	S	-46.87	-36.06	-9.92	-0.88	-13.00	-33.87
252.13	S	-46.04	-50.04	5.64	-1.64	-13.00	-33.04
323.91	S	-50.30	-54.27	5.84	-1.88	-13.00	-37.30
519.85	S	-59.38	-62.80	5.84	-2.41	-13.00	-46.38
750.71	S	-63.31	-66.04	5.43	-2.70	-13.00	-50.31
948.59	S	-61.73	-63.91	5.39	-3.20	-13.00	-48.73

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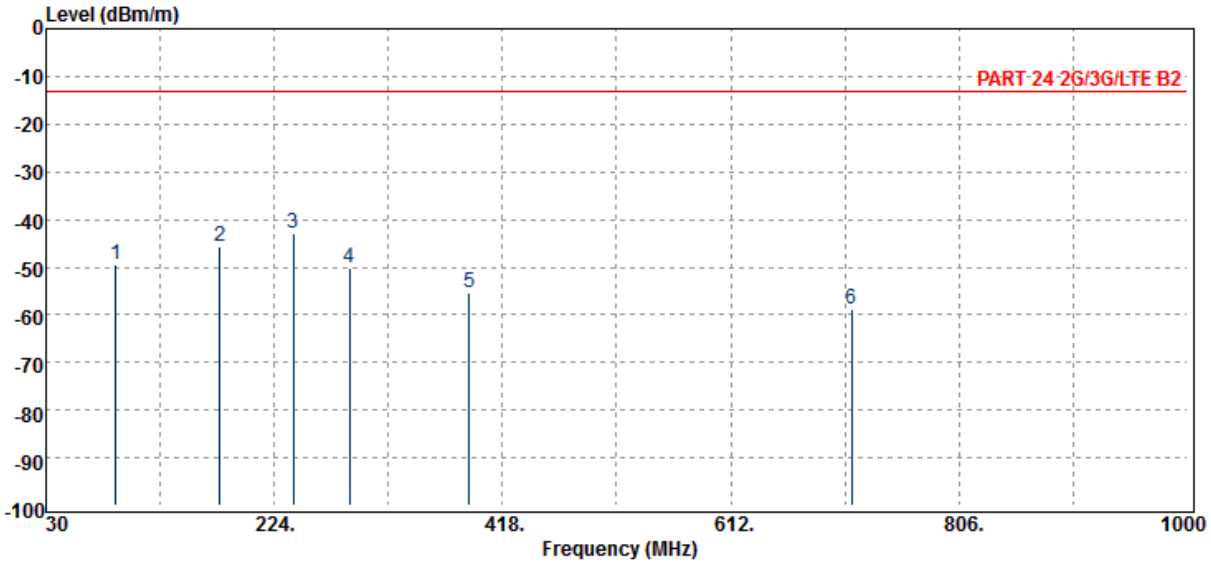
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-49.41	-49.86	1.53	-1.09	-13.00	-36.41
177.44	S	-45.83	-47.04	2.71	-1.50	-13.00	-32.83
240.49	S	-42.90	-46.73	5.44	-1.61	-13.00	-29.90
288.02	S	-50.27	-54.08	5.56	-1.74	-13.00	-37.27
389.87	S	-55.53	-59.37	5.80	-1.95	-13.00	-42.53
714.82	S	-58.70	-61.59	5.50	-2.61	-13.00	-45.70

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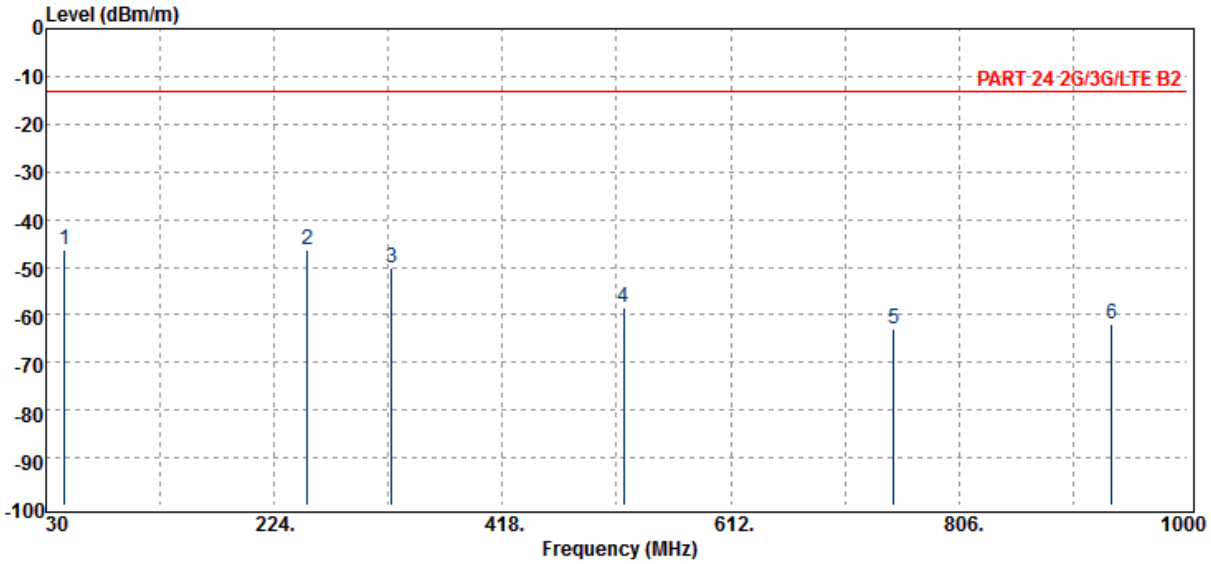
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
45.52	S	-46.32	-35.34	-10.11	-0.87	-13.00	-33.32
252.13	S	-46.35	-50.35	5.64	-1.64	-13.00	-33.35
323.91	S	-50.14	-54.10	5.84	-1.88	-13.00	-37.14
520.82	S	-58.62	-62.04	5.84	-2.42	-13.00	-45.62
750.71	S	-62.83	-65.57	5.43	-2.70	-13.00	-49.83
935.98	S	-62.02	-64.23	5.39	-3.18	-13.00	-49.02

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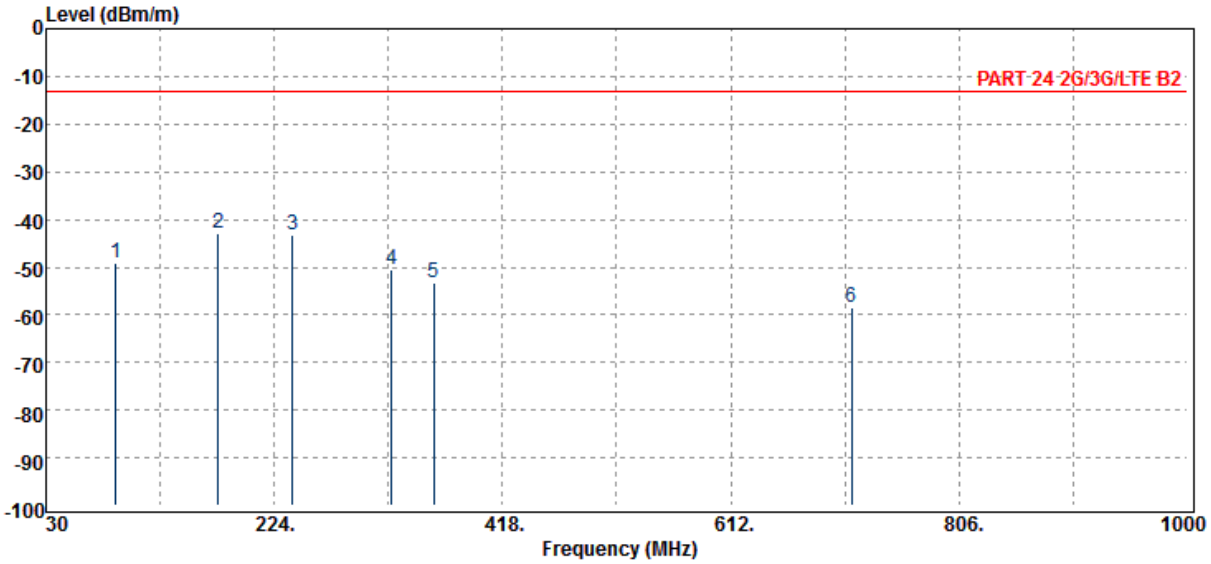
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-48.99	-49.44	1.53	-1.09	-13.00	-35.99
176.47	S	-42.83	-43.88	2.55	-1.49	-13.00	-29.83
239.52	S	-43.42	-47.25	5.44	-1.61	-13.00	-30.42
323.91	S	-50.53	-54.50	5.84	-1.88	-13.00	-37.53
359.80	S	-53.17	-57.09	5.88	-1.96	-13.00	-40.17
714.82	S	-58.57	-61.46	5.50	-2.61	-13.00	-45.57

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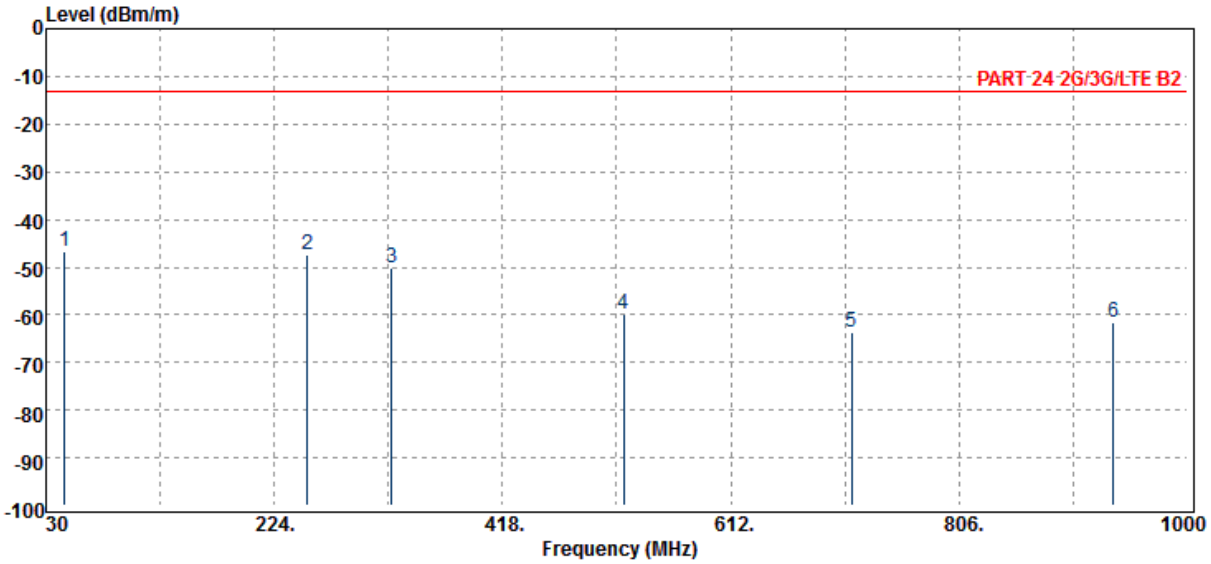
Radiated Spurious Emission Measurement Result: HSDPA II Mode

ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
45.52	S	-46.69	-35.71	-10.11	-0.87	-13.00	-33.69
252.13	S	-47.57	-51.56	5.64	-1.64	-13.00	-34.57
323.91	S	-50.09	-54.06	5.84	-1.88	-13.00	-37.09
520.82	S	-59.91	-63.32	5.84	-2.42	-13.00	-46.91
714.82	S	-63.66	-66.55	5.50	-2.61	-13.00	-50.66
936.95	S	-61.70	-63.90	5.39	-3.18	-13.00	-48.70

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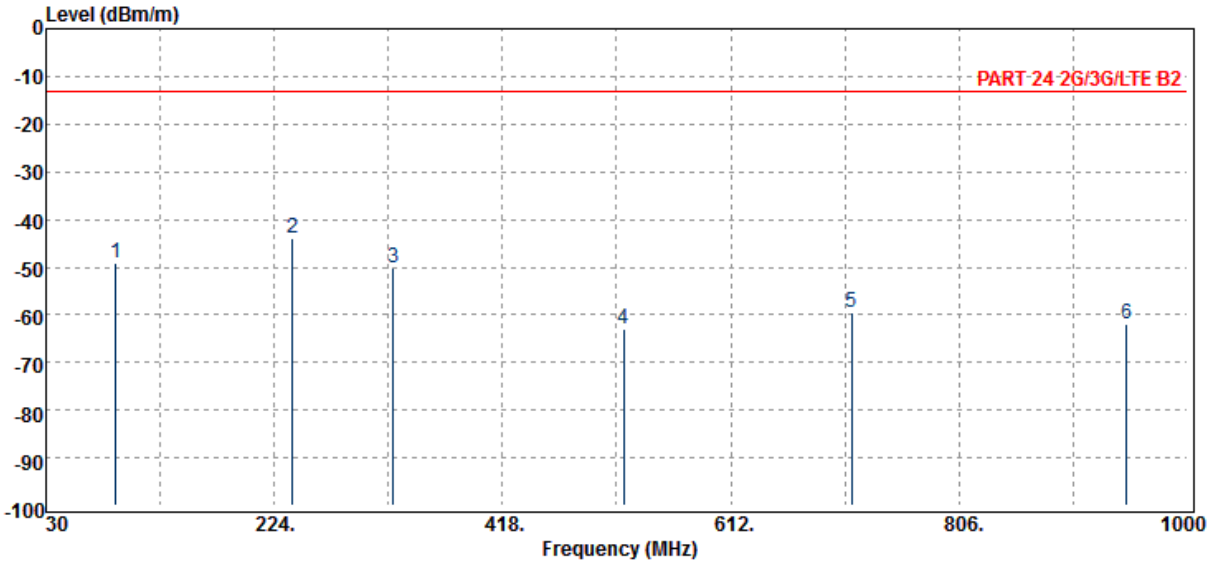
ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-49.16	-49.61	1.53	-1.09	-13.00	-36.16
239.52	S	-43.88	-47.71	5.44	-1.61	-13.00	-30.88
324.88	S	-50.31	-54.27	5.84	-1.88	-13.00	-37.31
520.82	S	-62.93	-66.35	5.84	-2.42	-13.00	-49.93
714.82	S	-59.55	-62.44	5.50	-2.61	-13.00	-46.55
948.59	S	-61.94	-64.12	5.39	-3.20	-13.00	-48.94

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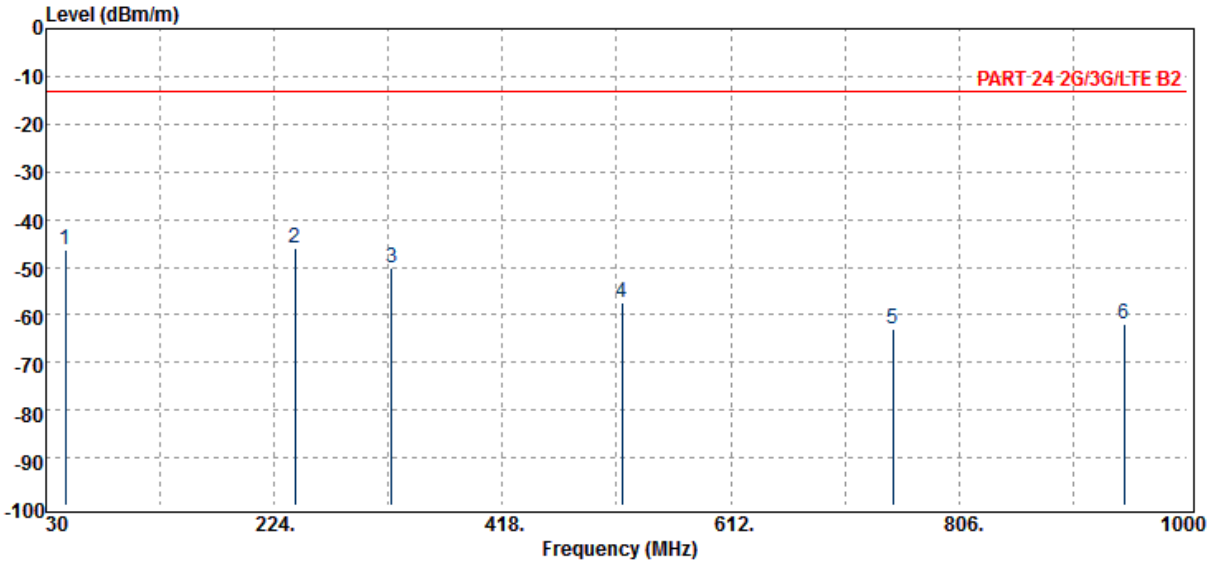
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.49	S	-46.50	-35.70	-9.92	-0.88	-13.00	-33.50
241.46	S	-46.01	-49.85	5.46	-1.61	-13.00	-33.01
323.91	S	-50.01	-53.97	5.84	-1.88	-13.00	-37.01
519.85	S	-57.30	-60.72	5.84	-2.41	-13.00	-44.30
749.74	S	-63.11	-65.85	5.43	-2.70	-13.00	-50.11
946.65	S	-61.77	-63.96	5.39	-3.20	-13.00	-48.77

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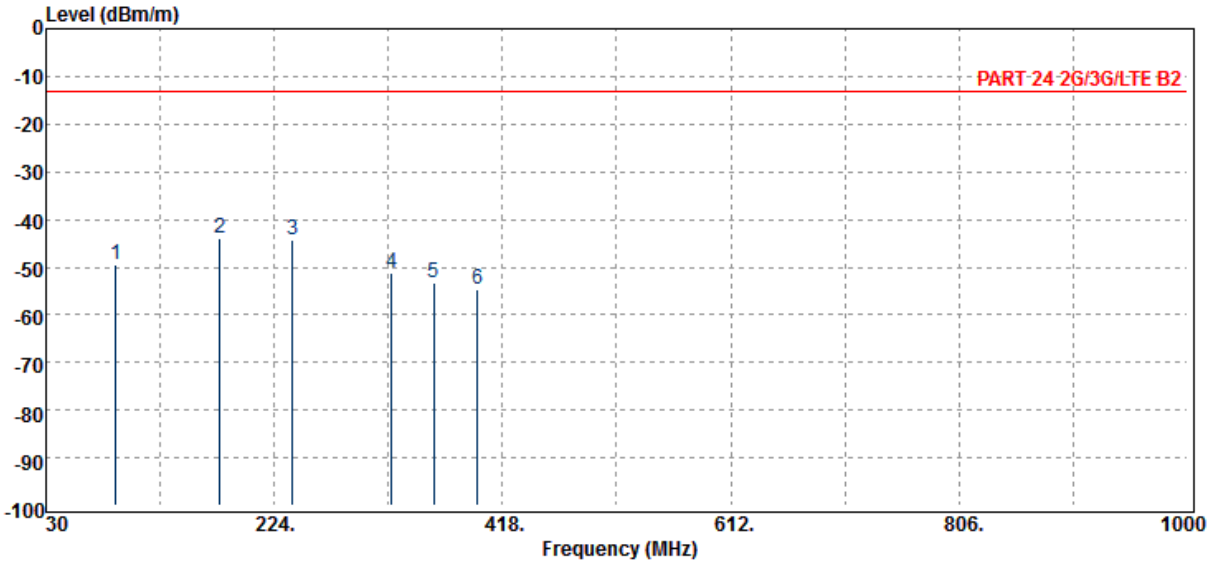
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-49.55	-50.00	1.53	-1.09	-13.00	-36.55
177.44	S	-43.95	-45.16	2.71	-1.50	-13.00	-30.95
239.52	S	-44.35	-48.18	5.44	-1.61	-13.00	-31.35
323.91	S	-51.16	-55.13	5.84	-1.88	-13.00	-38.16
359.80	S	-53.40	-57.32	5.88	-1.96	-13.00	-40.40
396.66	S	-54.70	-58.54	5.78	-1.95	-13.00	-41.70

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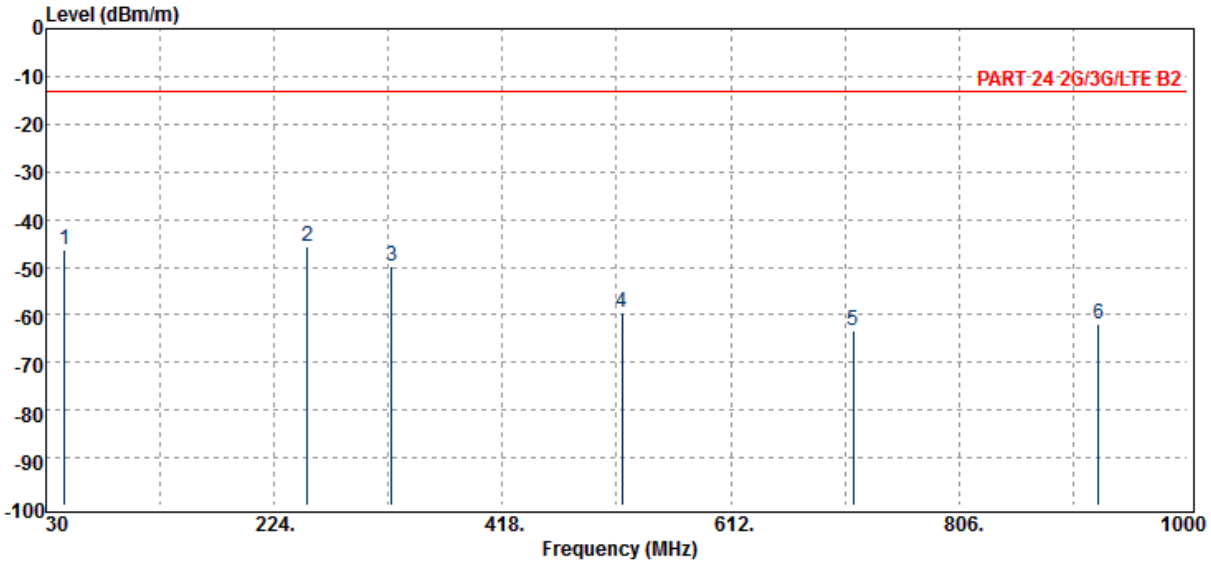
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
45.52	S	-46.43	-35.45	-10.11	-0.87	-13.00	-33.43
252.13	S	-45.53	-49.52	5.64	-1.64	-13.00	-32.53
323.91	S	-49.73	-53.70	5.84	-1.88	-13.00	-36.73
519.85	S	-59.41	-62.84	5.84	-2.41	-13.00	-46.41
715.79	S	-63.44	-66.33	5.50	-2.61	-13.00	-50.44
924.34	S	-62.05	-64.29	5.40	-3.17	-13.00	-49.05

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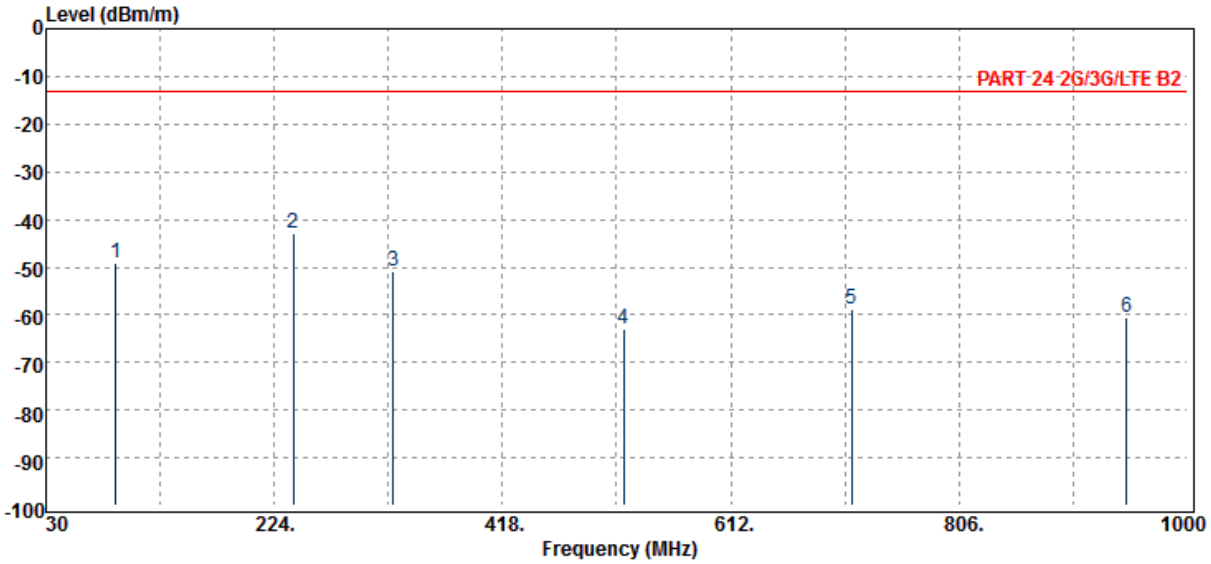
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-49.26	-49.70	1.53	-1.09	-13.00	-36.26
240.49	S	-43.01	-46.84	5.44	-1.61	-13.00	-30.01
324.88	S	-50.74	-54.71	5.84	-1.88	-13.00	-37.74
520.82	S	-63.13	-66.55	5.84	-2.42	-13.00	-50.13
714.82	S	-58.89	-61.78	5.50	-2.61	-13.00	-45.89
948.59	S	-60.56	-62.74	5.39	-3.20	-13.00	-47.56

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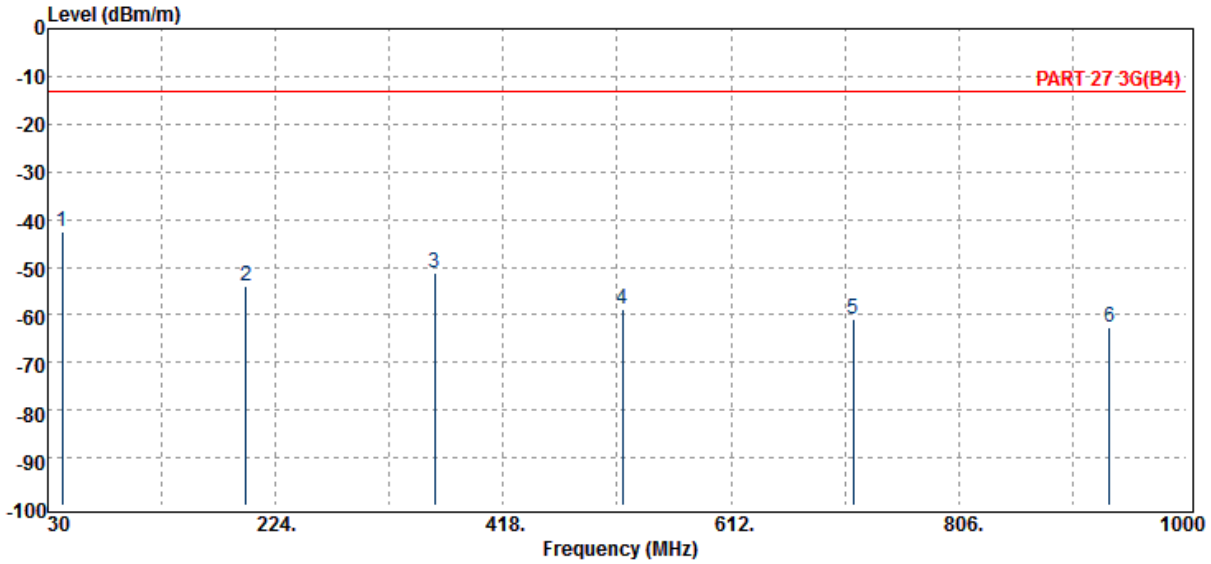
Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-42.70	-31.44	-10.40	-0.85	-13.00	-29.70
198.78	S	-54.07	-57.82	5.29	-1.53	-13.00	-41.07
359.80	S	-51.16	-55.08	5.88	-1.96	-13.00	-38.16
519.85	S	-58.93	-62.36	5.84	-2.41	-13.00	-45.93
715.79	S	-60.89	-63.78	5.50	-2.61	-13.00	-47.89
934.04	S	-62.61	-64.82	5.39	-3.18	-13.00	-49.61

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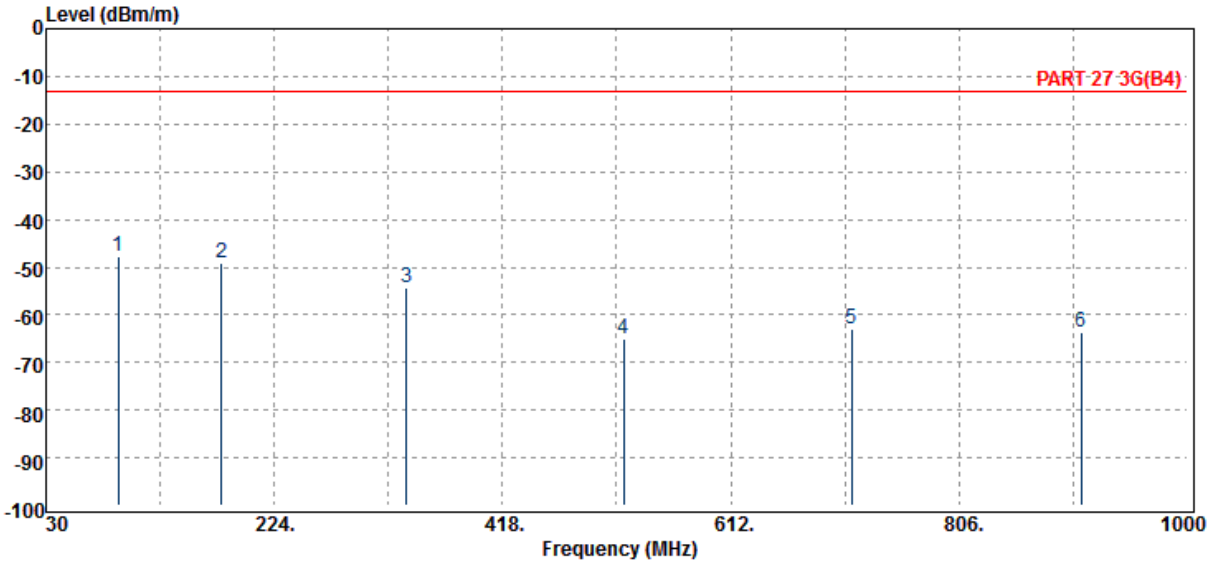
ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
91.11	S	-47.81	-48.31	1.59	-1.09	-13.00	-34.81
179.38	S	-49.13	-50.66	3.03	-1.50	-13.00	-36.13
336.52	S	-54.32	-58.27	5.88	-1.92	-13.00	-41.32
520.82	S	-64.96	-68.37	5.84	-2.42	-13.00	-51.96
714.82	S	-63.01	-65.90	5.50	-2.61	-13.00	-50.01
909.79	S	-63.80	-66.06	5.41	-3.14	-13.00	-50.80

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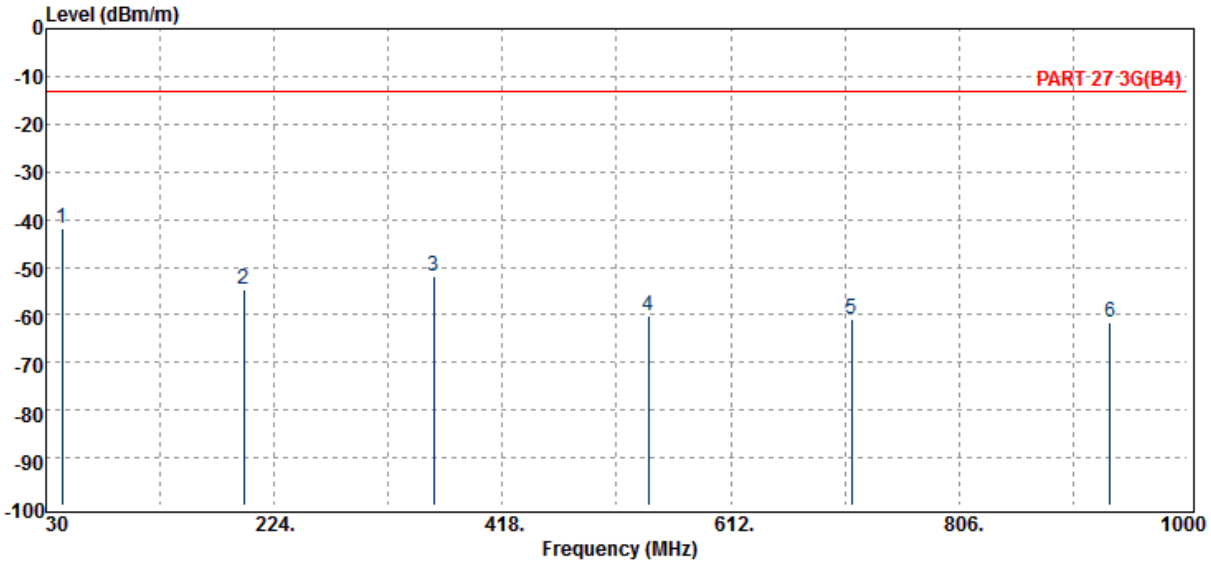
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-41.78	-30.60	-10.32	-0.86	-13.00	-28.78
197.81	S	-54.61	-58.32	5.23	-1.53	-13.00	-41.61
359.80	S	-51.75	-55.67	5.88	-1.96	-13.00	-38.75
542.16	S	-60.08	-63.32	5.76	-2.53	-13.00	-47.08
714.82	S	-60.79	-63.68	5.50	-2.61	-13.00	-47.79
934.04	S	-61.75	-63.96	5.39	-3.18	-13.00	-48.75

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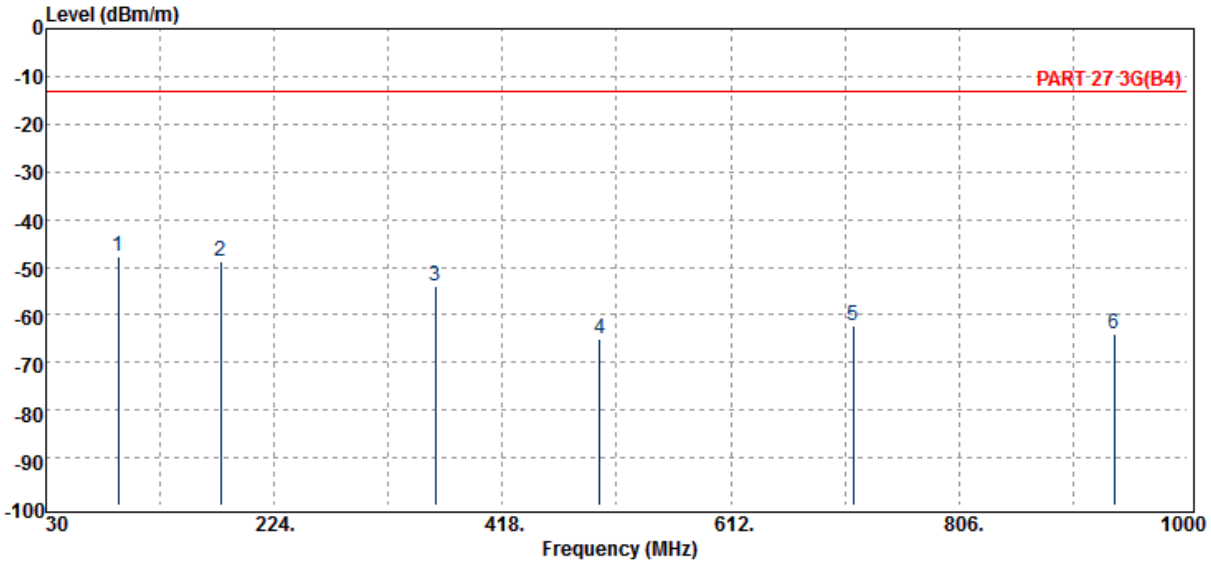
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
91.11	S	-47.74	-48.24	1.59	-1.09	-13.00	-34.74
178.41	S	-48.85	-50.22	2.87	-1.50	-13.00	-35.85
360.77	S	-54.07	-57.98	5.88	-1.96	-13.00	-41.07
500.45	S	-65.13	-68.73	5.91	-2.30	-13.00	-52.13
715.79	S	-62.20	-65.08	5.50	-2.61	-13.00	-49.20
937.92	S	-63.86	-66.06	5.39	-3.19	-13.00	-50.86

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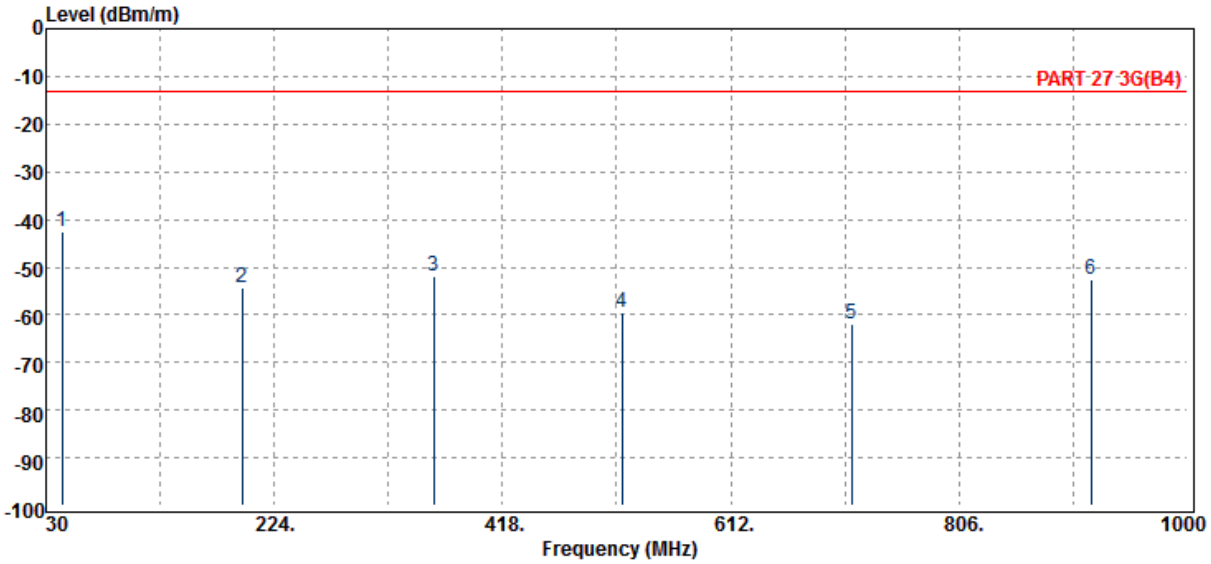
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-42.41	-31.23	-10.32	-0.86	-13.00	-29.41
196.84	S	-54.35	-58.01	5.18	-1.53	-13.00	-41.35
359.80	S	-51.97	-55.89	5.88	-1.96	-13.00	-38.97
519.85	S	-59.50	-62.93	5.84	-2.41	-13.00	-46.50
714.82	S	-61.81	-64.70	5.50	-2.61	-13.00	-48.81
918.52	S	-52.53	-54.77	5.40	-3.16	-13.00	-39.53

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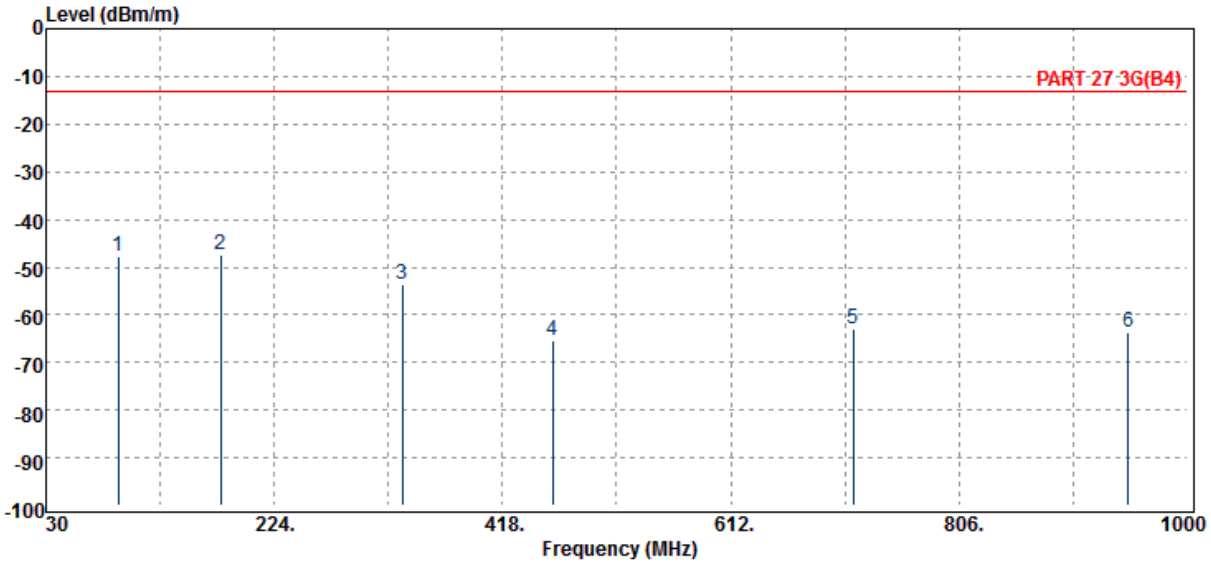
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
91.11	S	-47.72	-48.21	1.59	-1.09	-13.00	-34.72
178.41	S	-47.31	-48.68	2.87	-1.50	-13.00	-34.31
332.64	S	-53.55	-57.51	5.87	-1.91	-13.00	-40.55
460.68	S	-65.42	-68.91	5.59	-2.10	-13.00	-52.42
715.79	S	-62.88	-65.77	5.50	-2.61	-13.00	-49.88
949.56	S	-63.58	-65.76	5.38	-3.20	-13.00	-50.58

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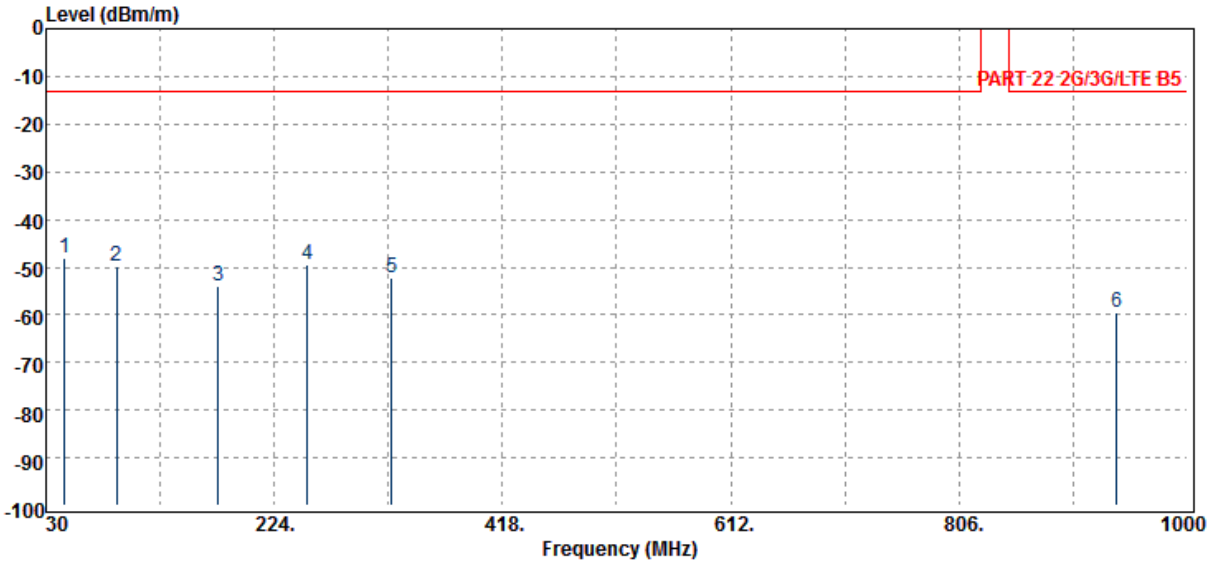
Radiated Spurious Emission Measurement Result: HSDPA V Mode

ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
45.52	S	-48.27	-35.14	-12.26	-0.87	-13.00	-35.27
90.14	S	-49.86	-48.32	-0.45	-1.09	-13.00	-36.86
176.47	S	-53.98	-52.88	0.40	-1.49	-13.00	-40.98
252.13	S	-49.64	-51.49	3.49	-1.64	-13.00	-36.64
323.91	S	-52.32	-54.14	3.69	-1.88	-13.00	-39.32
939.86	S	-59.67	-59.72	3.24	-3.19	-13.00	-46.67

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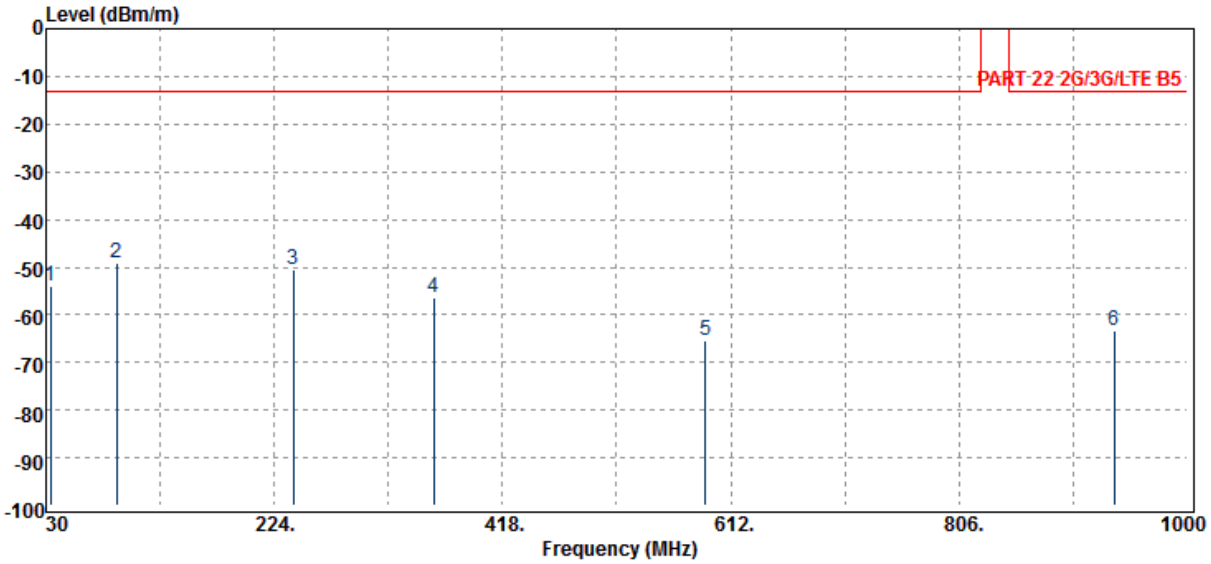
ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-54.08	-39.41	-13.90	-0.77	-13.00	-41.08
90.14	S	-49.18	-47.64	-0.45	-1.09	-13.00	-36.18
240.49	S	-50.55	-52.23	3.29	-1.61	-13.00	-37.55
359.80	S	-56.33	-58.10	3.73	-1.96	-13.00	-43.33
590.66	S	-65.53	-66.24	3.47	-2.77	-13.00	-52.53
937.92	S	-63.49	-63.55	3.24	-3.19	-13.00	-50.49

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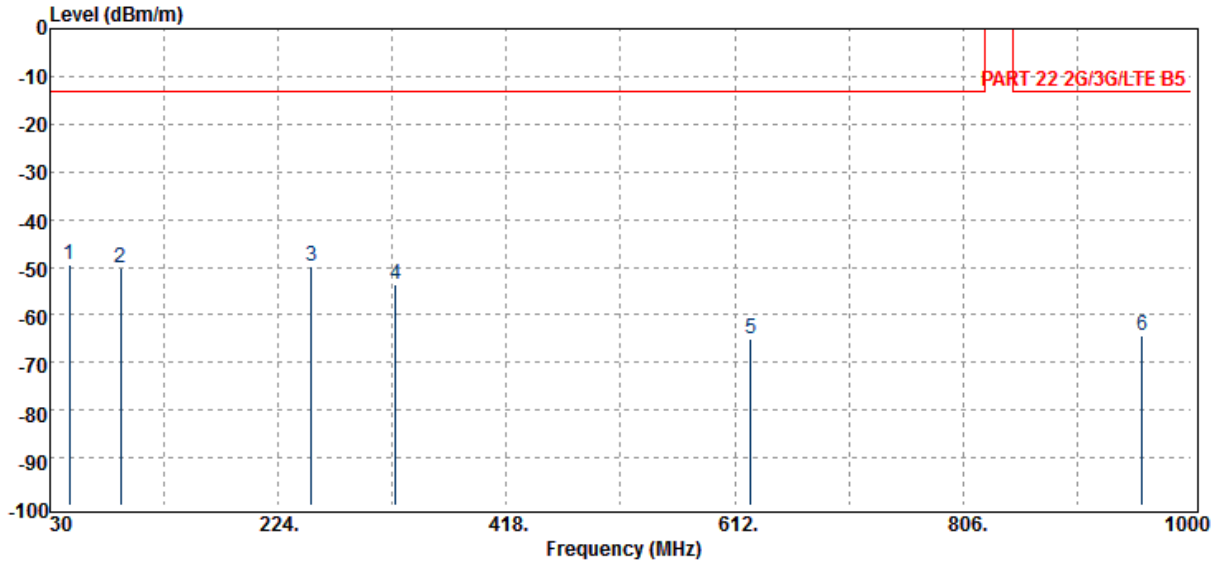
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-49.39	-36.44	-12.07	-0.88	-13.00	-36.39
90.14	S	-50.31	-48.77	-0.45	-1.09	-13.00	-37.31
252.13	S	-49.96	-51.81	3.49	-1.64	-13.00	-36.96
323.91	S	-53.50	-55.32	3.69	-1.88	-13.00	-40.50
625.58	S	-65.17	-66.01	3.54	-2.70	-13.00	-52.17
958.29	S	-64.35	-63.82	2.68	-3.21	-13.00	-51.35

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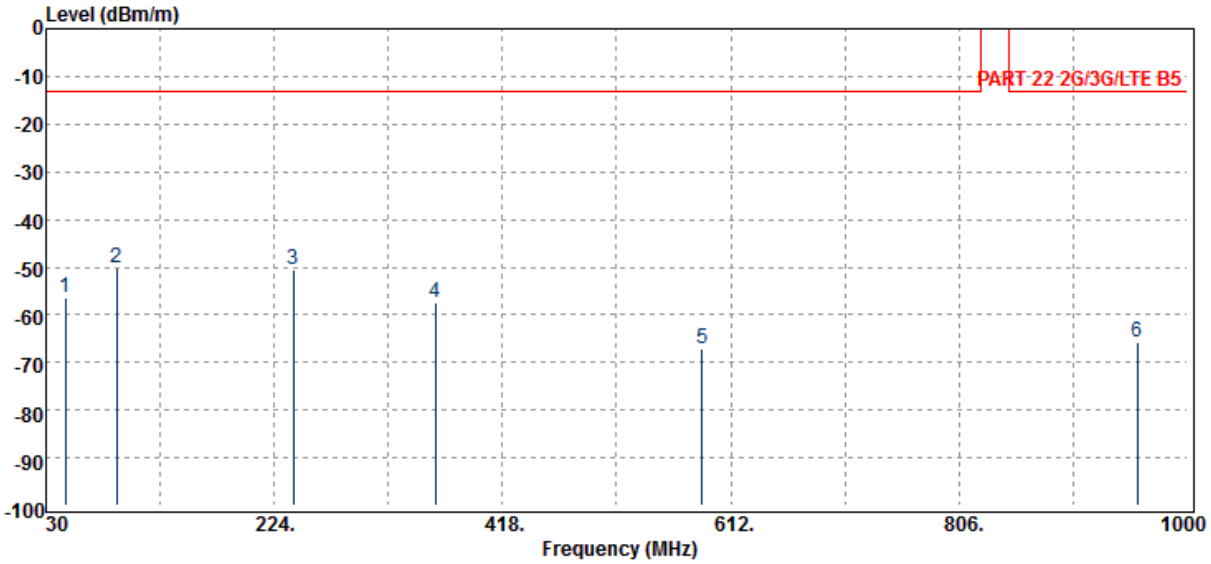
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-56.33	-43.38	-12.07	-0.88	-13.00	-43.33
90.14	S	-50.03	-48.49	-0.45	-1.09	-13.00	-37.03
240.49	S	-50.41	-52.10	3.29	-1.61	-13.00	-37.41
360.77	S	-57.32	-59.09	3.73	-1.96	-13.00	-44.32
587.75	S	-67.03	-67.75	3.48	-2.76	-13.00	-54.03
957.32	S	-65.70	-65.23	2.74	-3.21	-13.00	-52.70

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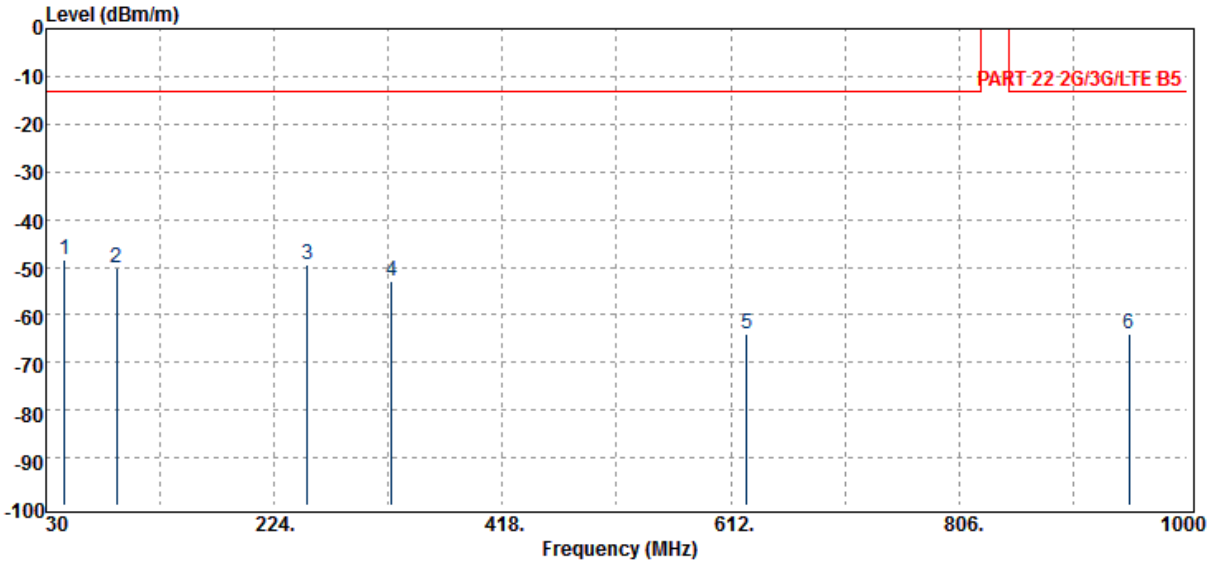
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
45.52	S	-48.29	-35.16	-12.26	-0.87	-13.00	-35.29
90.14	S	-50.10	-48.56	-0.45	-1.09	-13.00	-37.10
252.13	S	-49.52	-51.37	3.49	-1.64	-13.00	-36.52
323.91	S	-52.83	-54.65	3.69	-1.88	-13.00	-39.83
625.58	S	-64.15	-64.99	3.54	-2.70	-13.00	-51.15
950.53	S	-64.16	-64.16	3.20	-3.20	-13.00	-51.16

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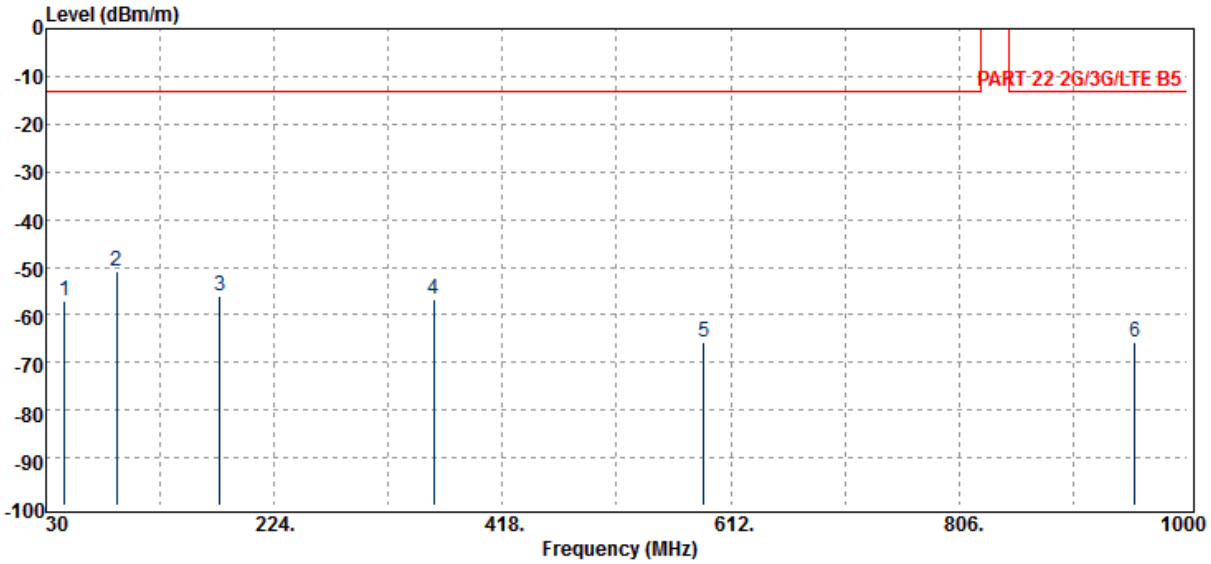
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
45.52	S	-57.18	-44.05	-12.26	-0.87	-13.00	-44.18
90.14	S	-50.88	-49.34	-0.45	-1.09	-13.00	-37.88
177.44	S	-55.97	-55.03	0.56	-1.50	-13.00	-42.97
359.80	S	-56.61	-58.38	3.73	-1.96	-13.00	-43.61
588.72	S	-65.86	-66.57	3.47	-2.76	-13.00	-52.86
955.38	S	-65.77	-65.43	2.87	-3.21	-13.00	-52.77

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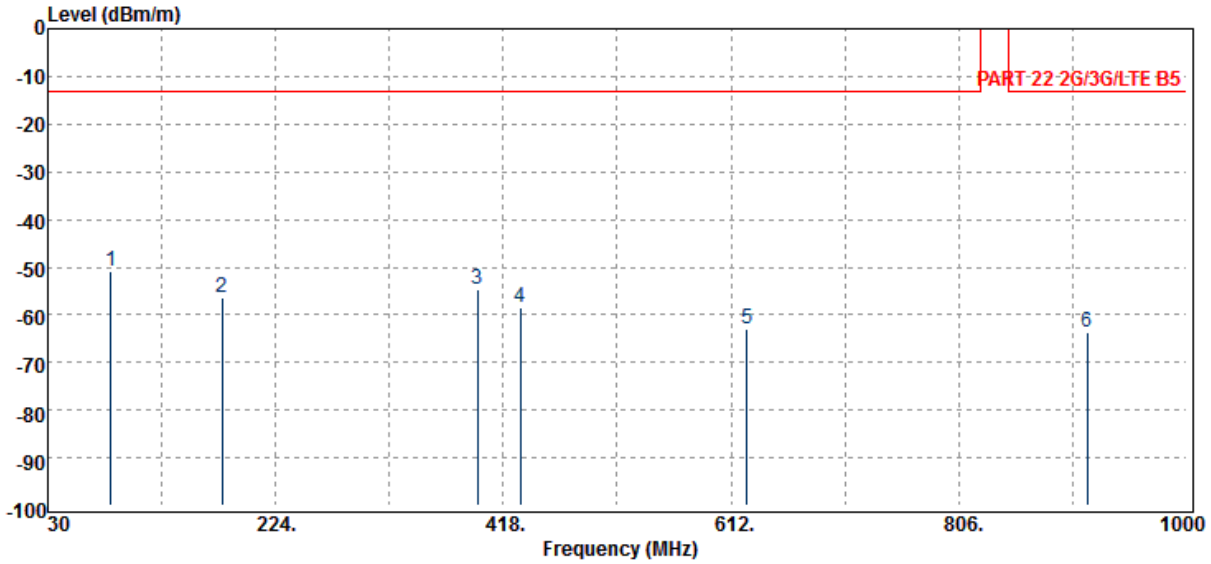
Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-50.76	-49.90	0.20	-1.06	-13.00	-37.76
178.41	S	-56.50	-57.87	2.87	-1.50	-13.00	-43.50
395.69	S	-54.51	-58.34	5.78	-1.95	-13.00	-41.51
432.55	S	-58.55	-62.13	5.59	-2.01	-13.00	-45.55
625.58	S	-62.95	-65.95	5.69	-2.70	-13.00	-49.95
915.61	S	-63.65	-65.90	5.41	-3.15	-13.00	-50.65

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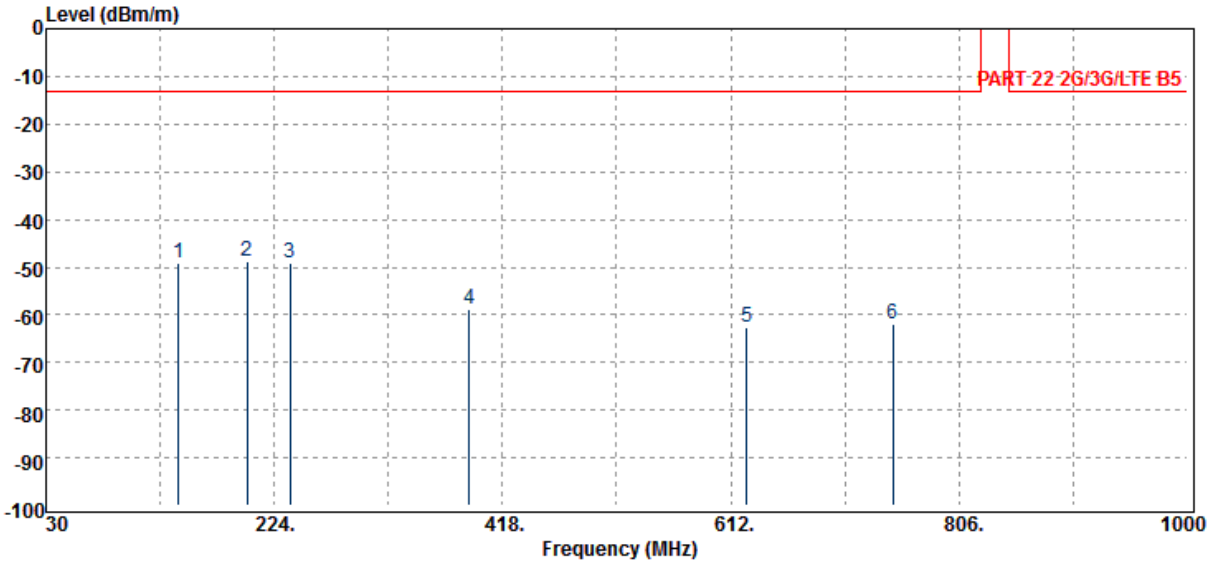
ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
142.52	S	-49.17	-47.51	-0.32	-1.35	-13.00	-36.17
200.72	S	-48.62	-52.47	5.39	-1.53	-13.00	-35.62
237.58	S	-49.03	-52.87	5.44	-1.60	-13.00	-36.03
389.87	S	-58.98	-62.83	5.80	-1.95	-13.00	-45.98
625.58	S	-62.51	-65.51	5.69	-2.70	-13.00	-49.51
749.74	S	-61.96	-64.70	5.43	-2.70	-13.00	-48.96

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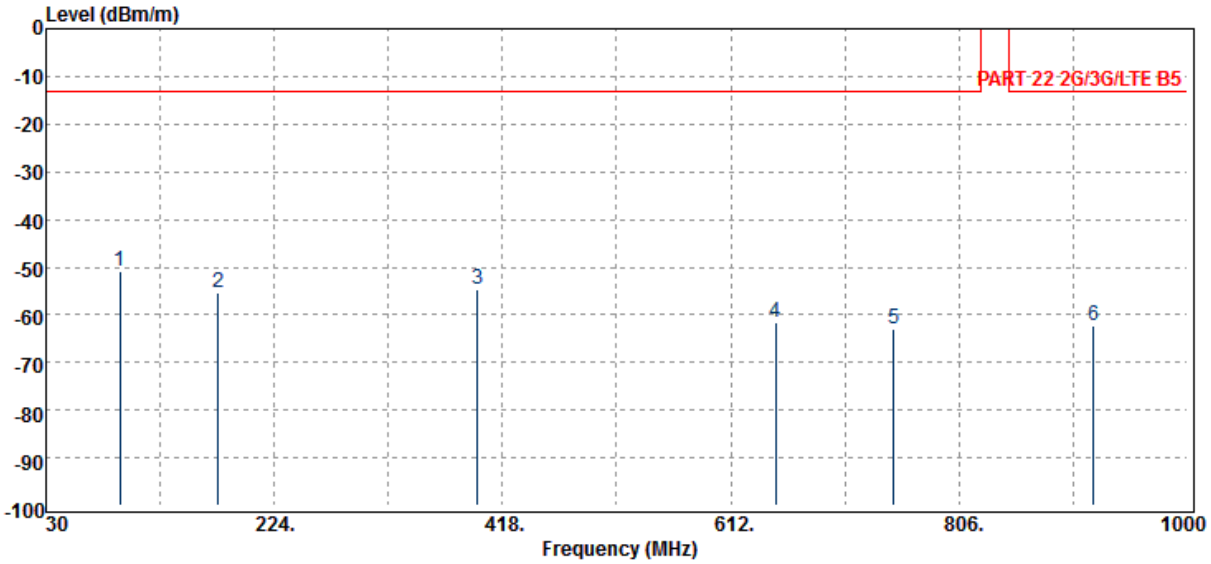
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
93.05	S	-50.76	-51.03	1.37	-1.10	-13.00	-37.76
176.47	S	-55.46	-56.51	2.55	-1.49	-13.00	-42.46
396.66	S	-54.74	-58.58	5.78	-1.95	-13.00	-41.74
649.83	S	-61.64	-64.77	5.79	-2.66	-13.00	-48.64
750.71	S	-62.93	-65.66	5.43	-2.70	-13.00	-49.93
920.46	S	-62.33	-64.57	5.40	-3.16	-13.00	-49.33

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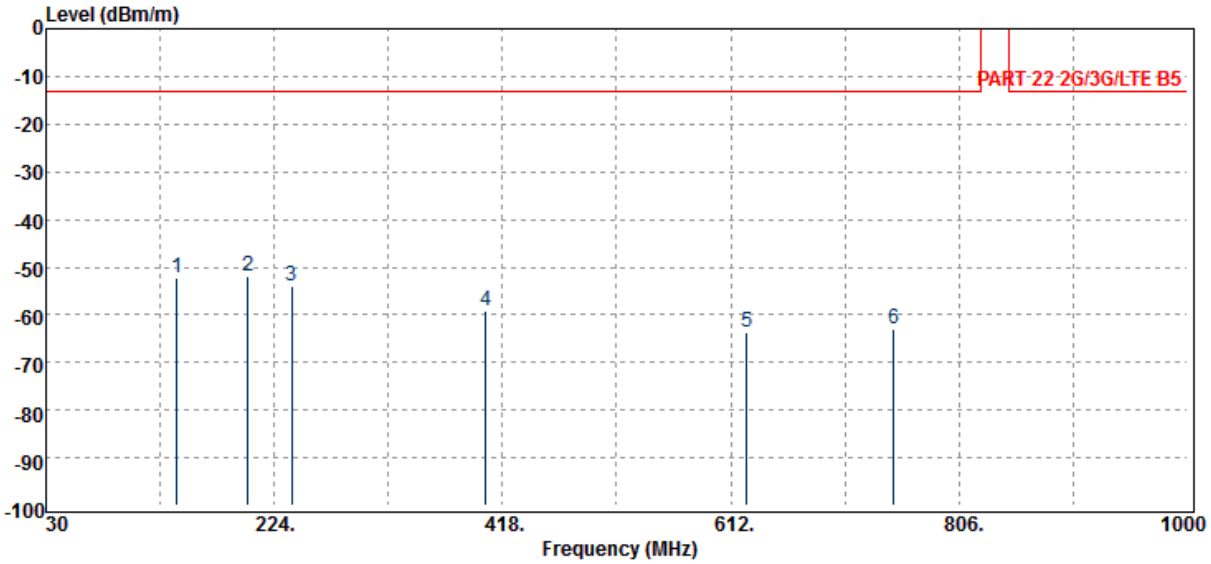
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
141.55	S	-52.17	-50.46	-0.37	-1.34	-13.00	-39.17
201.69	S	-51.74	-55.64	5.44	-1.54	-13.00	-38.74
238.55	S	-53.92	-57.76	5.44	-1.60	-13.00	-40.92
403.45	S	-59.14	-62.95	5.75	-1.94	-13.00	-46.14
625.58	S	-63.82	-66.81	5.69	-2.70	-13.00	-50.82
750.71	S	-62.90	-65.64	5.43	-2.70	-13.00	-49.90

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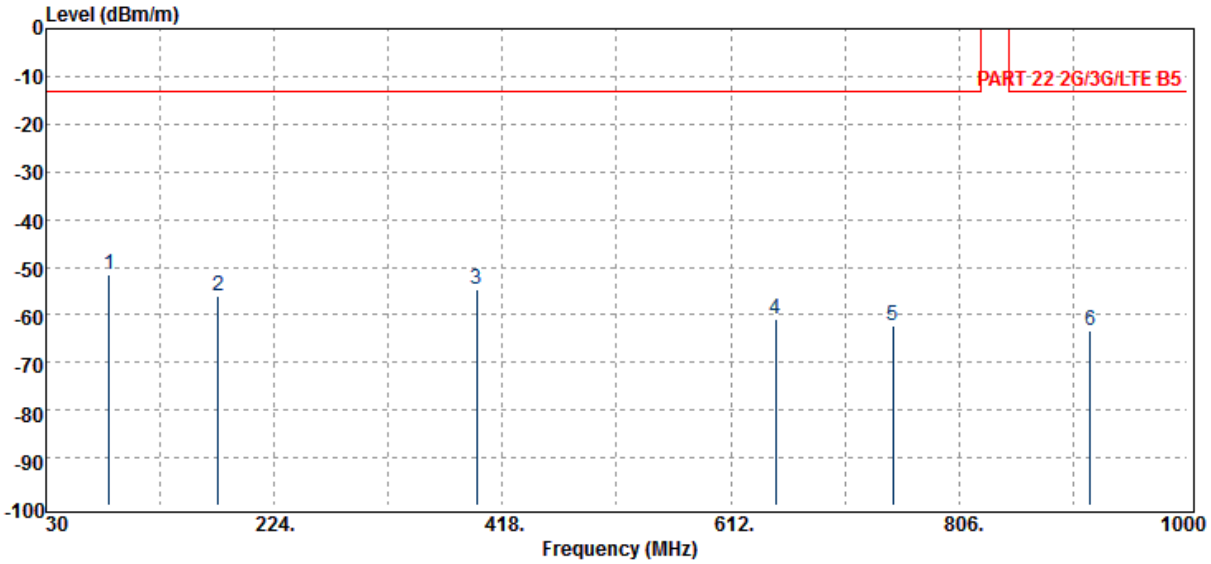
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-51.50	-50.63	0.20	-1.06	-13.00	-38.50
176.47	S	-56.07	-57.13	2.55	-1.49	-13.00	-43.07
395.69	S	-54.65	-58.49	5.78	-1.95	-13.00	-41.65
649.83	S	-60.85	-63.98	5.79	-2.66	-13.00	-47.85
749.74	S	-62.30	-65.04	5.43	-2.70	-13.00	-49.30
917.55	S	-63.17	-65.42	5.40	-3.16	-13.00	-50.17

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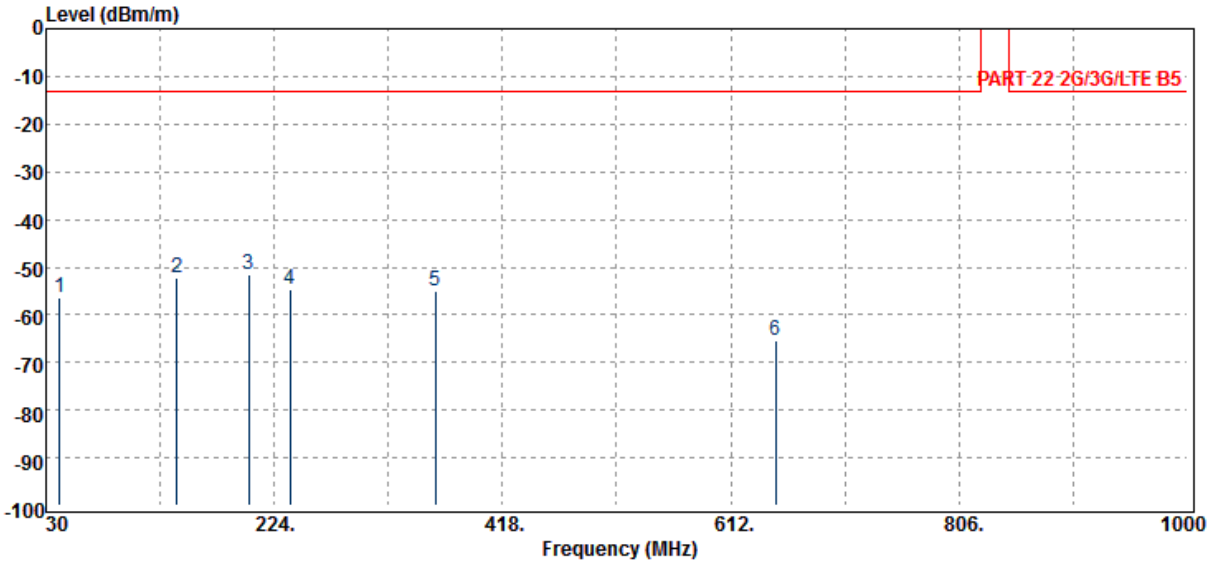
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-56.57	-45.25	-10.48	-0.84	-13.00	-43.57
141.55	S	-52.23	-50.52	-0.37	-1.34	-13.00	-39.23
202.66	S	-51.51	-55.46	5.49	-1.54	-13.00	-38.51
237.58	S	-54.82	-58.66	5.44	-1.60	-13.00	-41.82
360.77	S	-54.86	-58.78	5.88	-1.96	-13.00	-41.86
649.83	S	-65.24	-68.37	5.79	-2.66	-13.00	-52.24

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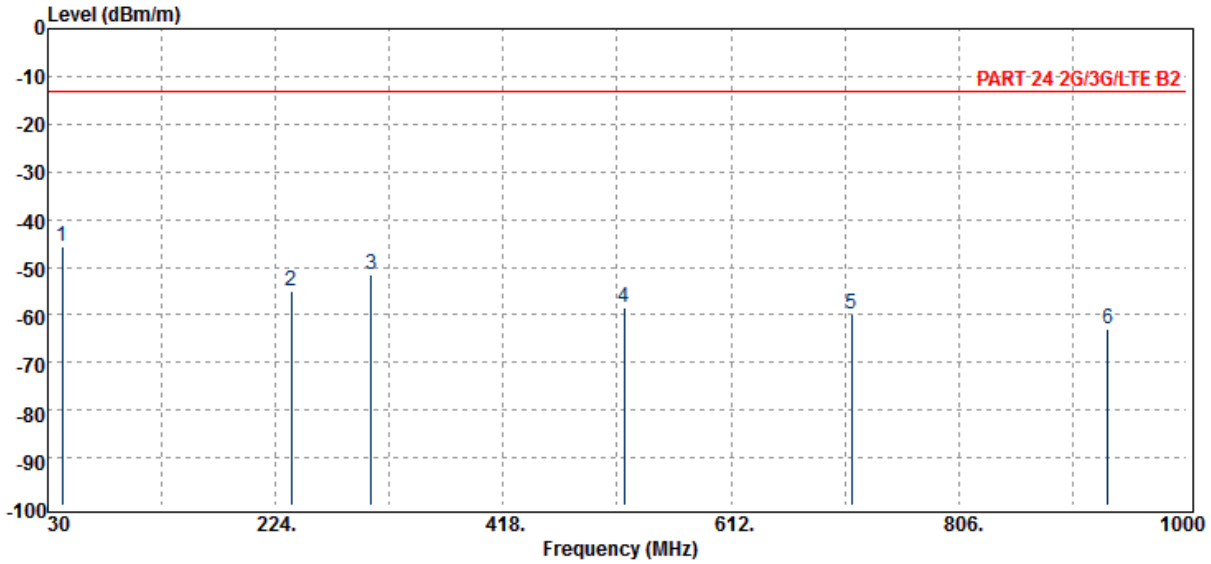
Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-45.68	-34.42	-10.40	-0.85	-13.00	-32.68
237.58	S	-55.08	-58.92	5.44	-1.60	-13.00	-42.08
305.48	S	-51.43	-55.42	5.79	-1.81	-13.00	-38.43
520.82	S	-58.52	-61.93	5.84	-2.42	-13.00	-45.52
714.82	S	-59.75	-62.64	5.50	-2.61	-13.00	-46.75
933.07	S	-63.08	-65.30	5.39	-3.18	-13.00	-50.08

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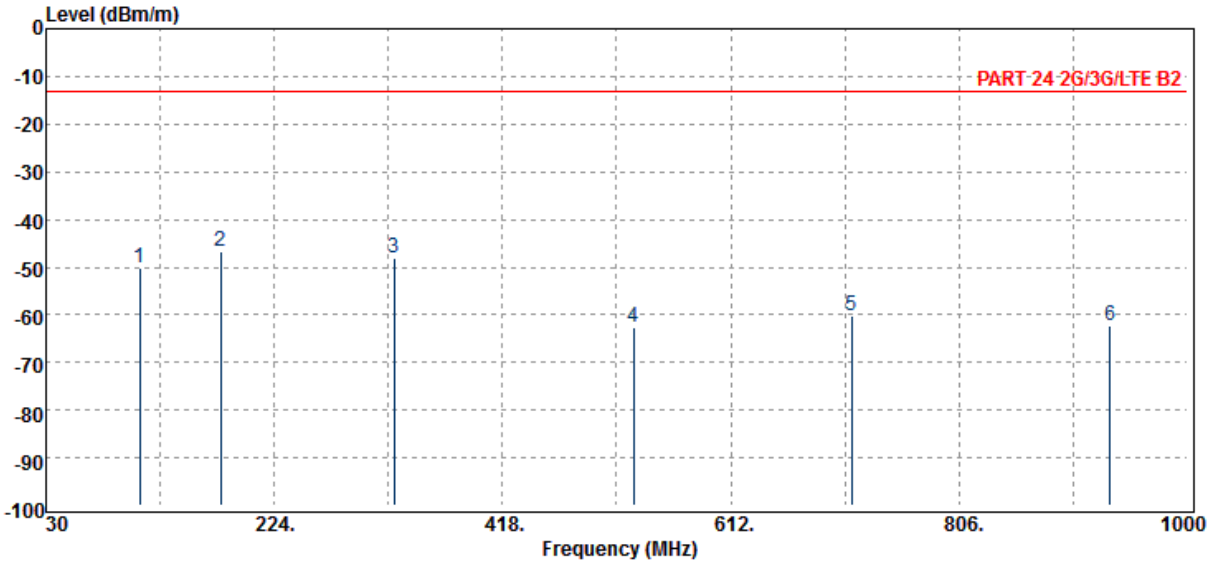
ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
109.54	S	-50.20	-48.95	-0.11	-1.15	-13.00	-37.20
178.41	S	-46.69	-48.07	2.87	-1.50	-13.00	-33.69
325.85	S	-48.18	-52.14	5.85	-1.88	-13.00	-35.18
529.55	S	-62.66	-66.00	5.81	-2.47	-13.00	-49.66
714.82	S	-60.37	-63.26	5.50	-2.61	-13.00	-47.37
934.04	S	-62.26	-64.47	5.39	-3.18	-13.00	-49.26

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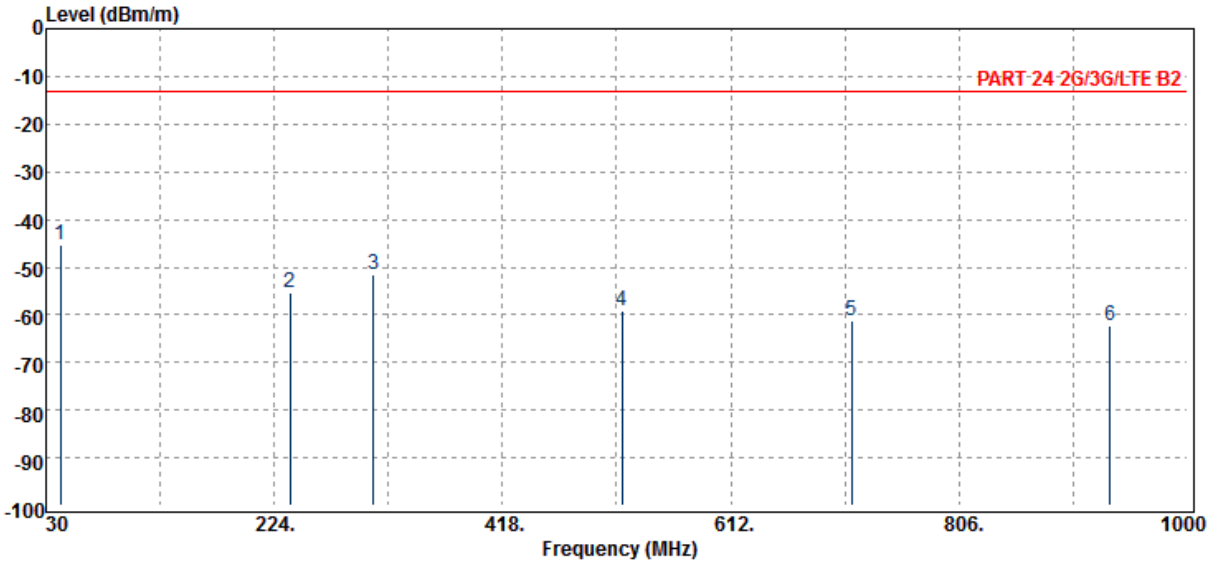
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-45.42	-34.16	-10.40	-0.85	-13.00	-32.42
237.58	S	-55.43	-59.27	5.44	-1.60	-13.00	-42.43
308.39	S	-51.62	-55.60	5.80	-1.82	-13.00	-38.62
519.85	S	-59.03	-62.45	5.84	-2.41	-13.00	-46.03
714.82	S	-61.29	-64.18	5.50	-2.61	-13.00	-48.29
934.04	S	-62.30	-64.52	5.39	-3.18	-13.00	-49.30

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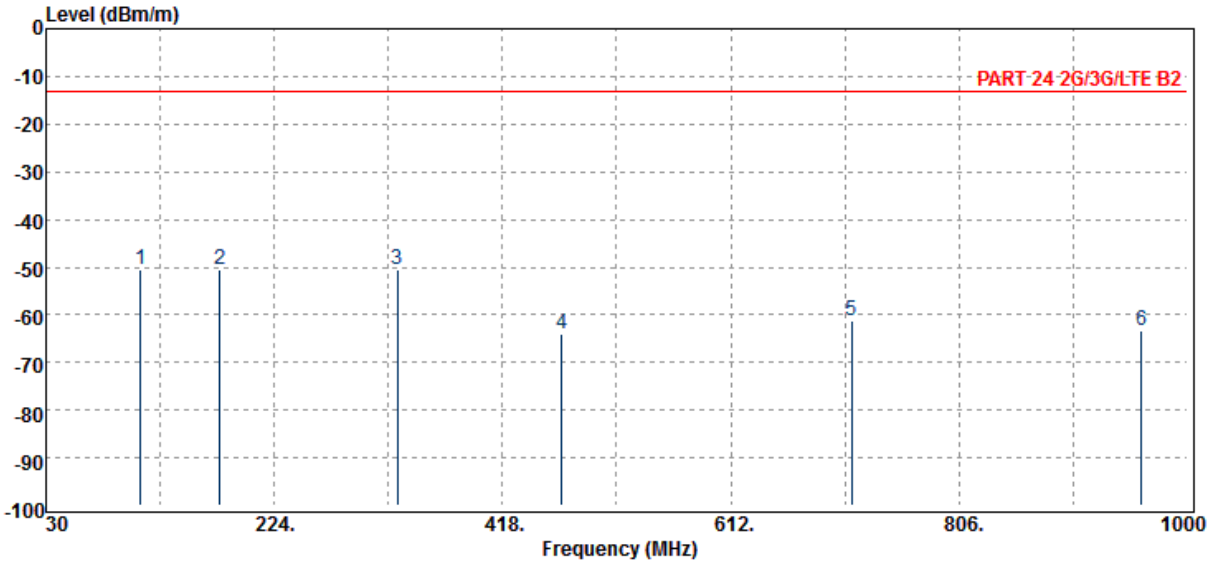
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
110.51	S	-50.64	-49.34	-0.14	-1.15	-13.00	-37.64
177.44	S	-50.60	-51.82	2.71	-1.50	-13.00	-37.60
328.76	S	-50.46	-54.42	5.85	-1.89	-13.00	-37.46
468.44	S	-63.93	-67.46	5.65	-2.12	-13.00	-50.93
714.82	S	-61.31	-64.20	5.50	-2.61	-13.00	-48.31
961.20	S	-63.40	-64.82	4.63	-3.21	-13.00	-50.40

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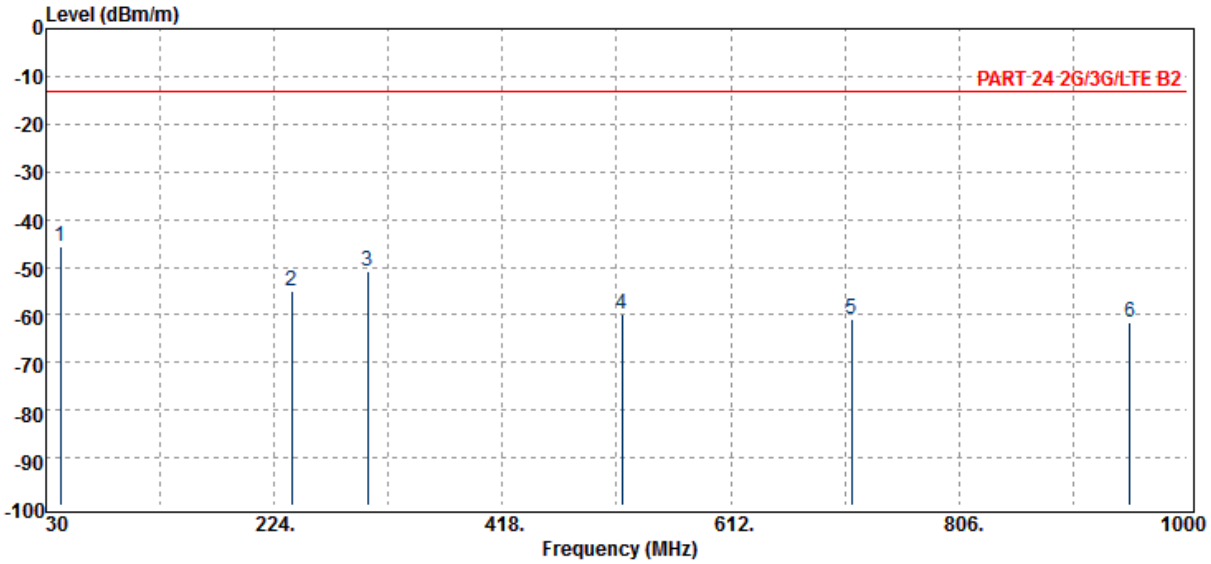
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-45.80	-34.54	-10.40	-0.85	-13.00	-32.80
238.55	S	-55.11	-58.95	5.44	-1.60	-13.00	-42.11
303.54	S	-51.02	-55.00	5.78	-1.80	-13.00	-38.02
519.85	S	-59.77	-63.19	5.84	-2.41	-13.00	-46.77
714.82	S	-60.82	-63.71	5.50	-2.61	-13.00	-47.82
951.50	S	-61.73	-63.81	5.28	-3.20	-13.00	-48.73

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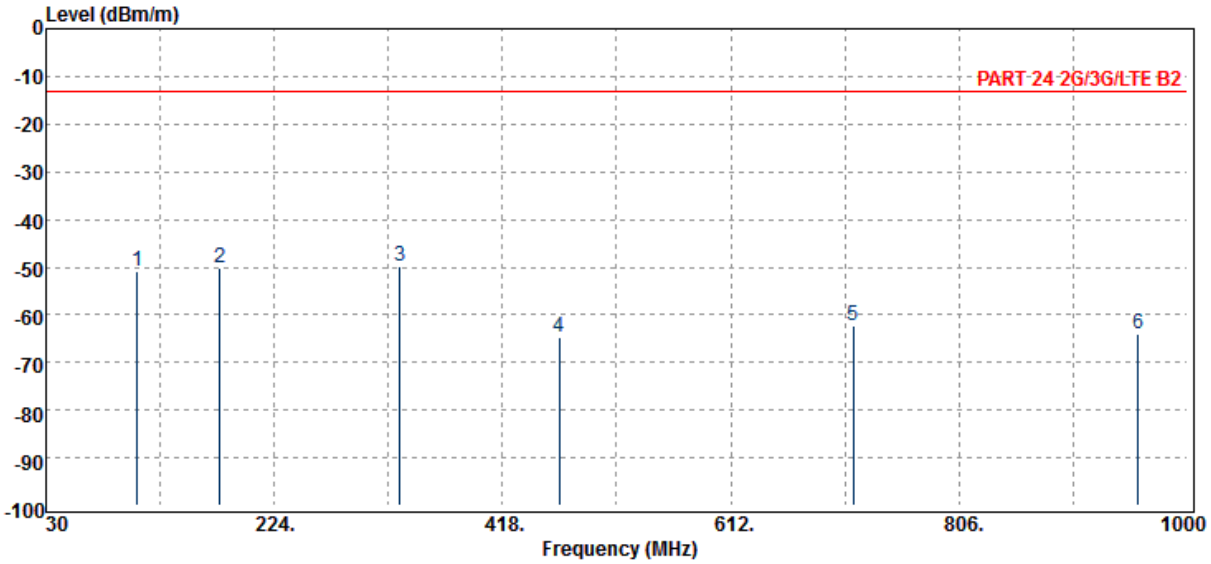
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
107.60	S	-50.84	-49.73	0.04	-1.14	-13.00	-37.84
177.44	S	-50.25	-51.46	2.71	-1.50	-13.00	-37.25
330.70	S	-49.92	-53.88	5.86	-1.90	-13.00	-36.92
466.50	S	-64.61	-68.13	5.64	-2.11	-13.00	-51.61
715.79	S	-62.30	-65.18	5.50	-2.61	-13.00	-49.30
958.29	S	-63.88	-65.50	4.83	-3.21	-13.00	-50.88

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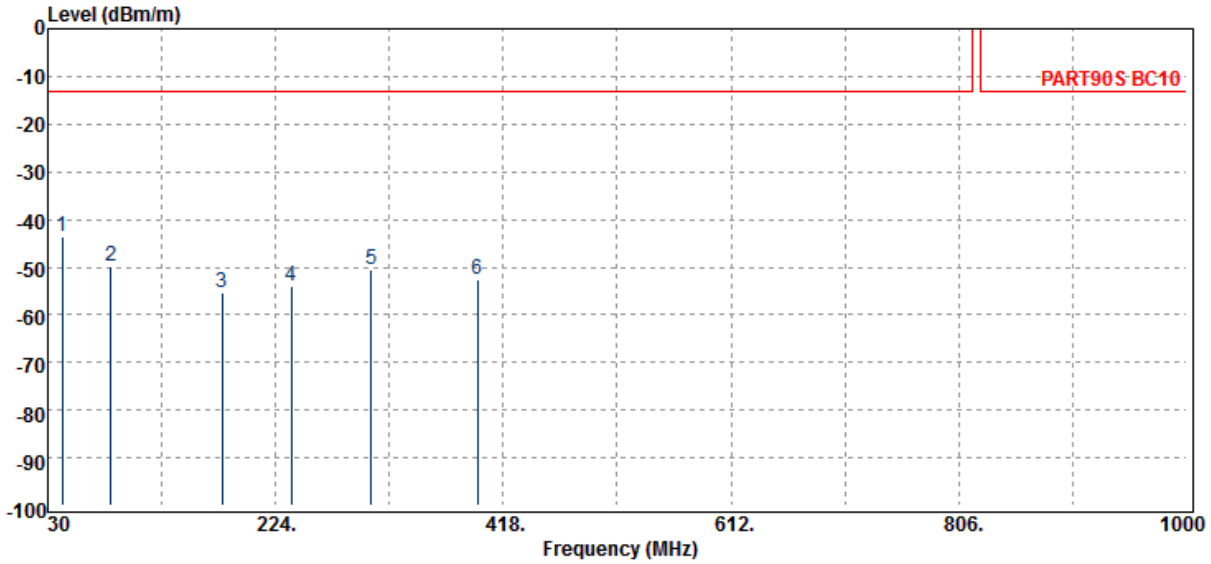
Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-43.68	-32.42	-10.40	-0.85	-13.00	-30.68
83.35	S	-49.76	-48.90	0.20	-1.06	-13.00	-36.76
178.41	S	-55.50	-56.87	2.87	-1.50	-13.00	-42.50
237.58	S	-54.08	-57.92	5.44	-1.60	-13.00	-41.08
305.48	S	-50.43	-54.42	5.79	-1.81	-13.00	-37.43
395.69	S	-52.51	-56.34	5.78	-1.95	-13.00	-39.51

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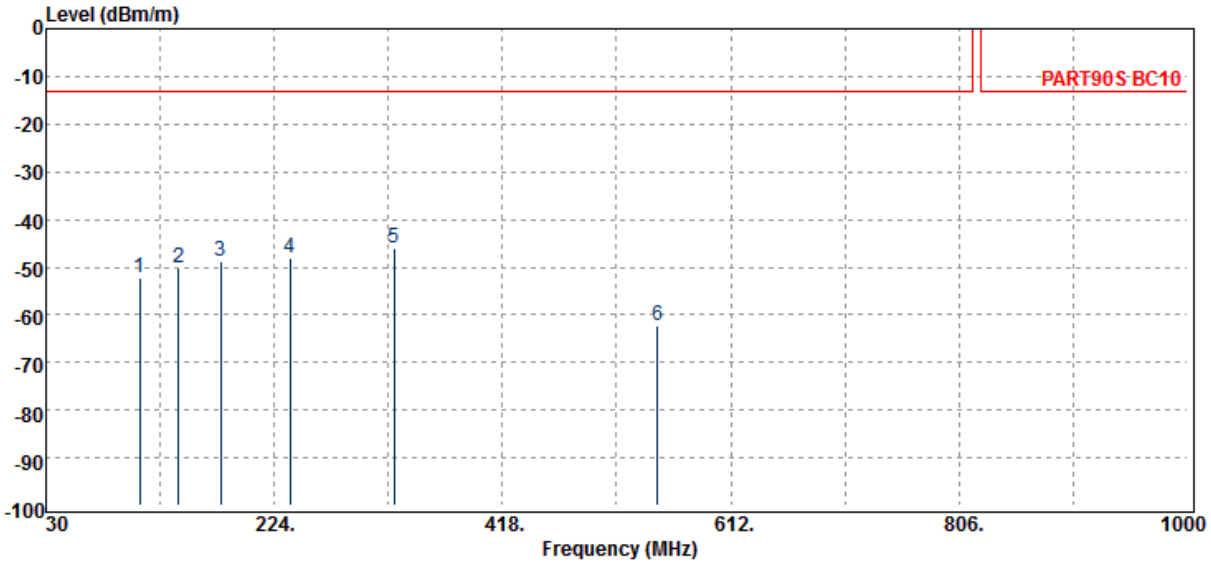
ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
109.54	S	-52.20	-50.95	-0.11	-1.15	-13.00	-39.20
142.52	S	-50.17	-48.51	-0.32	-1.35	-13.00	-37.17
178.41	S	-48.69	-50.07	2.87	-1.50	-13.00	-35.69
237.58	S	-48.03	-51.87	5.44	-1.60	-13.00	-35.03
325.85	S	-46.18	-50.14	5.85	-1.88	-13.00	-33.18
549.92	S	-62.36	-65.53	5.74	-2.57	-13.00	-49.36

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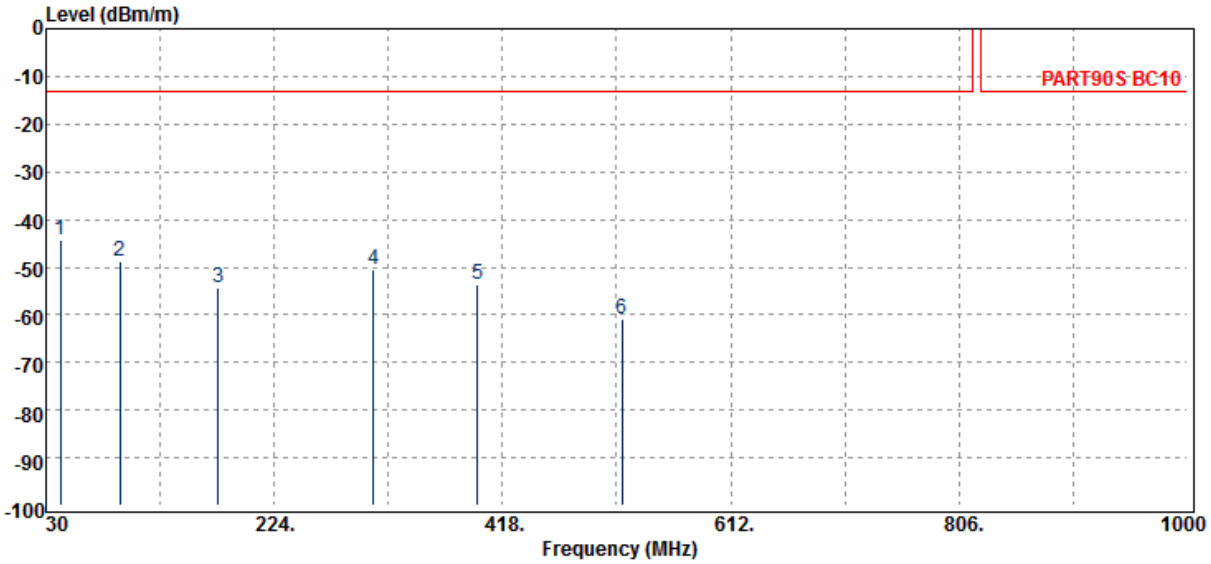
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-44.42	-33.16	-10.40	-0.85	-13.00	-31.42
93.05	S	-48.76	-49.03	1.37	-1.10	-13.00	-35.76
176.47	S	-54.46	-55.51	2.55	-1.49	-13.00	-41.46
308.39	S	-50.62	-54.60	5.80	-1.82	-13.00	-37.62
396.66	S	-53.74	-57.58	5.78	-1.95	-13.00	-40.74
519.85	S	-61.03	-64.45	5.84	-2.41	-13.00	-48.03

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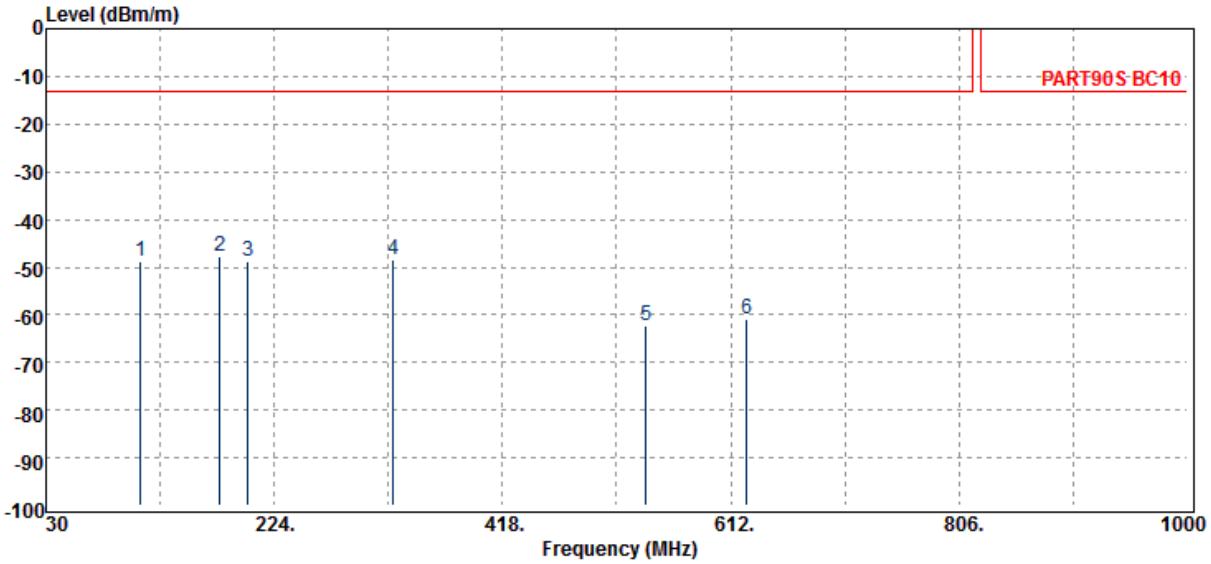
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
110.51	S	-48.64	-47.34	-0.14	-1.15	-13.00	-35.64
177.44	S	-47.60	-48.82	2.71	-1.50	-13.00	-34.60
201.69	S	-48.74	-52.64	5.44	-1.54	-13.00	-35.74
324.88	S	-48.46	-52.43	5.84	-1.88	-13.00	-35.46
540.22	S	-62.16	-65.41	5.77	-2.52	-13.00	-49.16
625.58	S	-60.82	-63.81	5.69	-2.70	-13.00	-47.82

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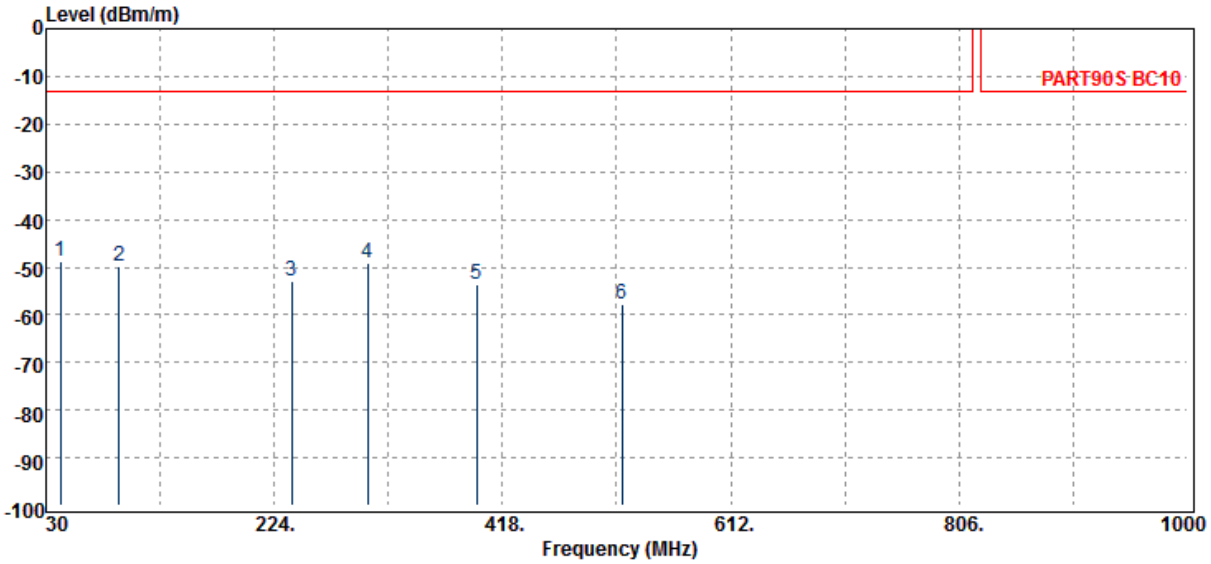
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-48.80	-37.54	-10.40	-0.85	-13.00	-35.80
92.08	S	-49.85	-50.24	1.48	-1.10	-13.00	-36.85
238.55	S	-53.11	-56.95	5.44	-1.60	-13.00	-40.11
303.54	S	-49.02	-53.00	5.78	-1.80	-13.00	-36.02
395.69	S	-53.65	-57.49	5.78	-1.95	-13.00	-40.65
519.85	S	-57.77	-61.19	5.84	-2.41	-13.00	-44.77

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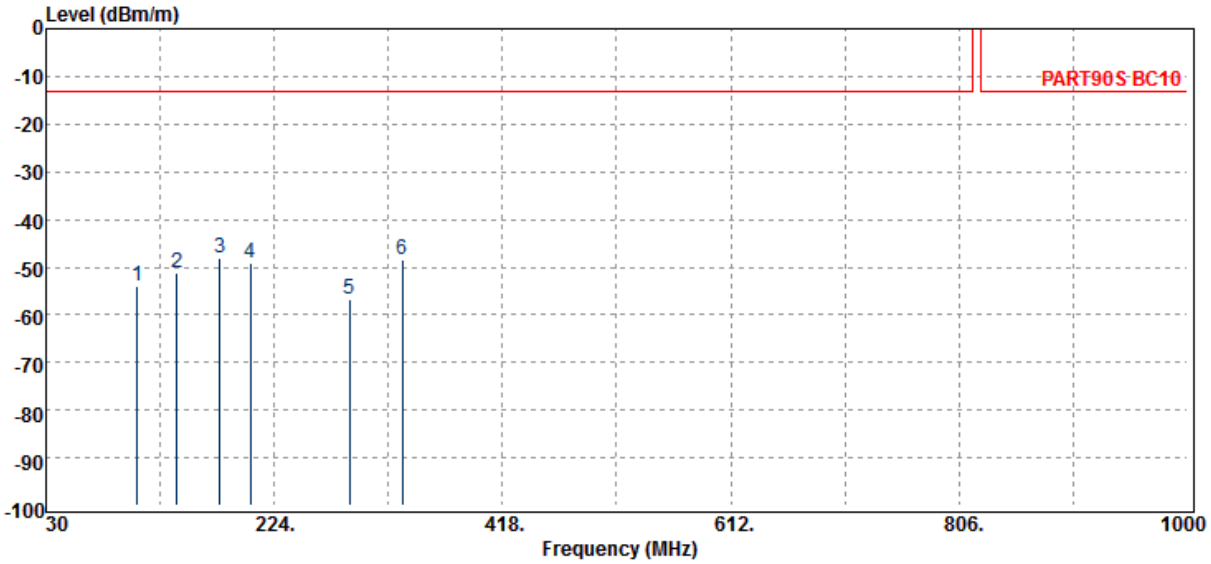
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
107.60	S	-53.84	-52.73	0.04	-1.14	-13.00	-40.84
141.55	S	-51.23	-49.52	-0.37	-1.34	-13.00	-38.23
177.44	S	-48.25	-49.46	2.71	-1.50	-13.00	-35.25
203.63	S	-49.21	-53.21	5.54	-1.54	-13.00	-36.21
288.02	S	-56.64	-60.45	5.56	-1.74	-13.00	-43.64
332.64	S	-48.31	-52.27	5.87	-1.91	-13.00	-35.31

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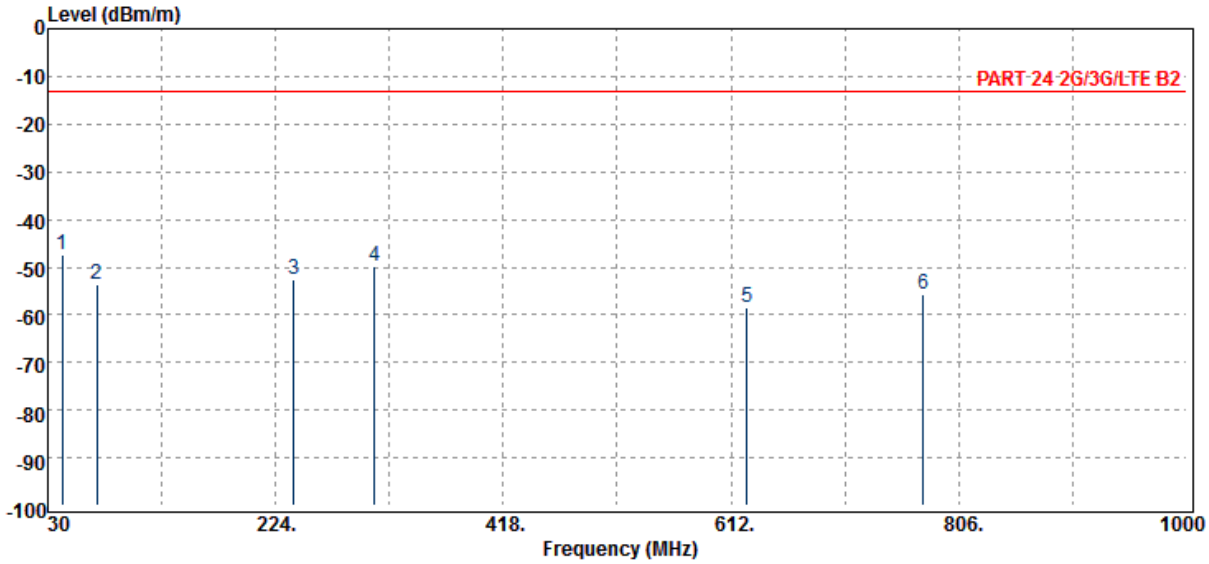
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-47.53	-36.28	-10.40	-0.85	-13.00	-34.53
71.71	S	-53.64	-49.51	-3.11	-1.02	-13.00	-40.64
239.52	S	-52.46	-56.29	5.44	-1.61	-13.00	-39.46
308.39	S	-49.86	-53.84	5.80	-1.82	-13.00	-36.86
625.58	S	-58.60	-61.60	5.69	-2.70	-13.00	-45.60
775.93	S	-55.60	-58.35	5.52	-2.76	-13.00	-42.60

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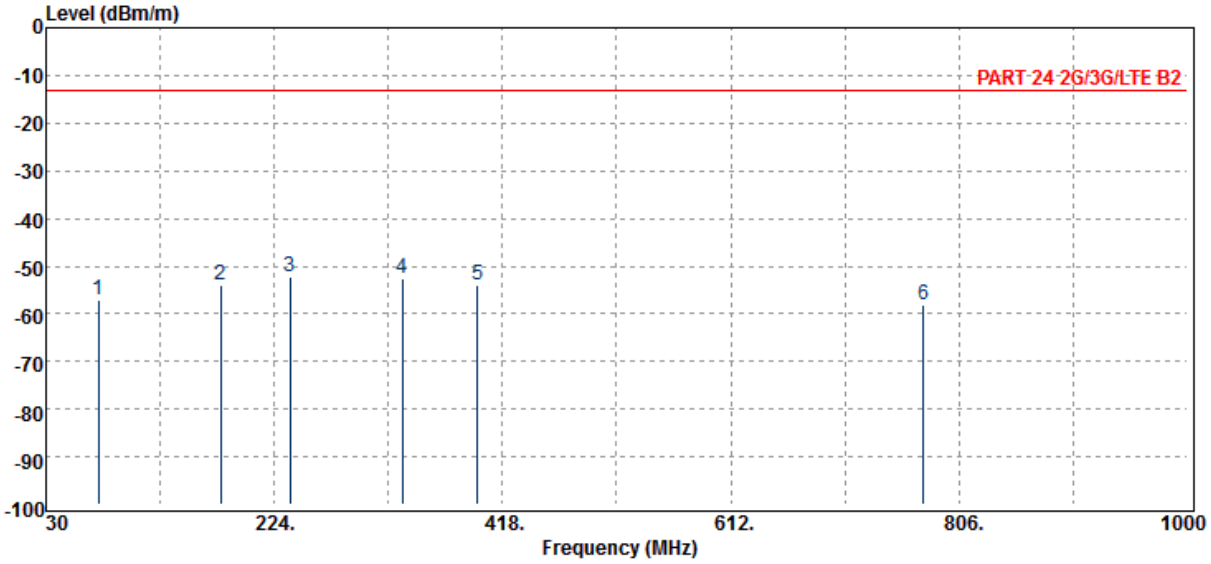
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
74.62	S	-57.22	-53.99	-2.20	-1.03	-13.00	-44.22
178.41	S	-54.00	-55.38	2.87	-1.50	-13.00	-41.00
237.58	S	-52.17	-56.02	5.44	-1.60	-13.00	-39.17
332.64	S	-52.45	-56.40	5.87	-1.91	-13.00	-39.45
396.66	S	-54.06	-57.89	5.78	-1.95	-13.00	-41.06
775.93	S	-58.06	-60.82	5.52	-2.76	-13.00	-45.06

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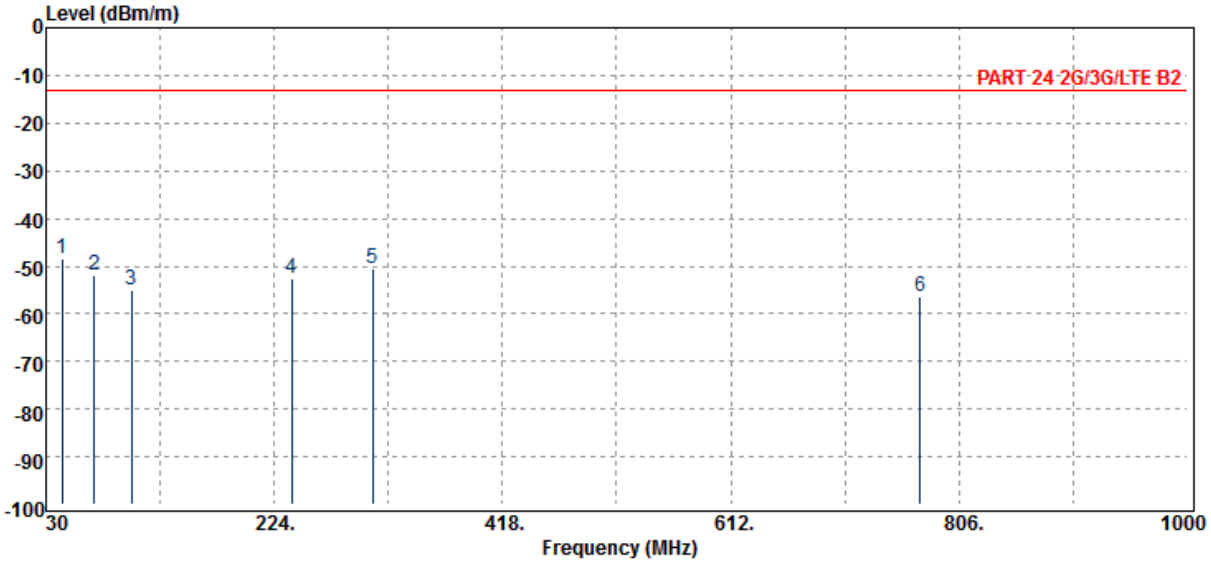
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
43.58	S	-48.28	-37.10	-10.32	-0.86	-13.00	-35.28
70.74	S	-52.00	-47.56	-3.43	-1.01	-13.00	-39.00
102.75	S	-55.07	-54.35	0.41	-1.13	-13.00	-42.07
238.55	S	-52.61	-56.44	5.44	-1.60	-13.00	-39.61
307.42	S	-50.59	-54.57	5.79	-1.81	-13.00	-37.59
773.02	S	-56.56	-59.32	5.51	-2.75	-13.00	-43.56

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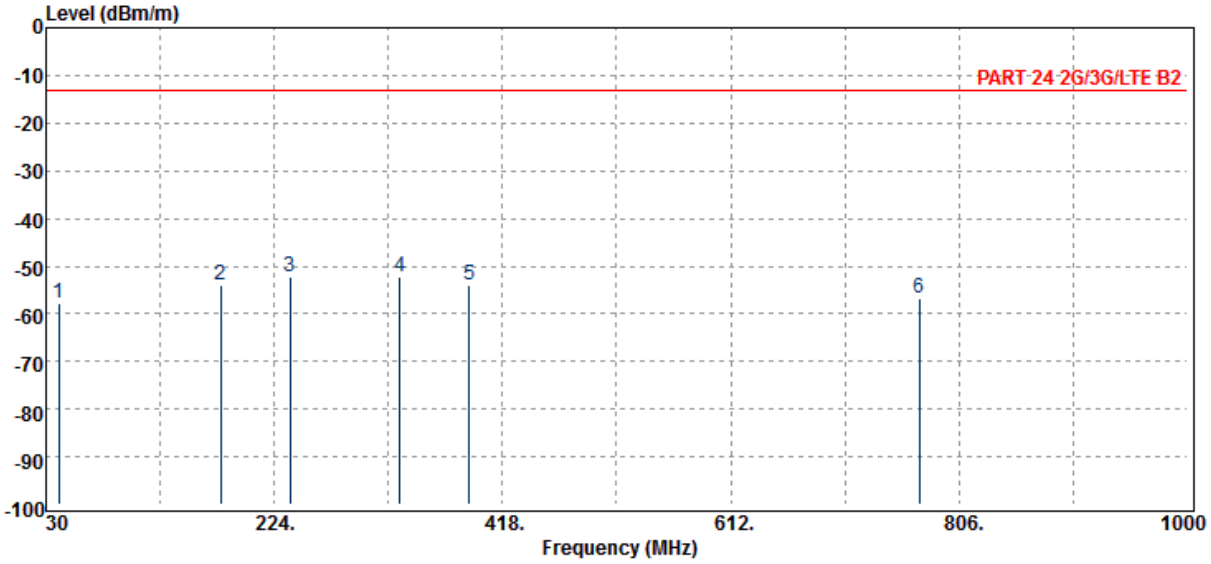
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-57.66	-46.26	-10.57	-0.84	-13.00	-44.66
178.41	S	-53.83	-55.20	2.87	-1.50	-13.00	-40.83
237.58	S	-52.21	-56.05	5.44	-1.60	-13.00	-39.21
330.70	S	-52.28	-56.24	5.86	-1.90	-13.00	-39.28
389.87	S	-53.81	-57.66	5.80	-1.95	-13.00	-40.81
772.05	S	-56.77	-59.53	5.50	-2.75	-13.00	-43.77

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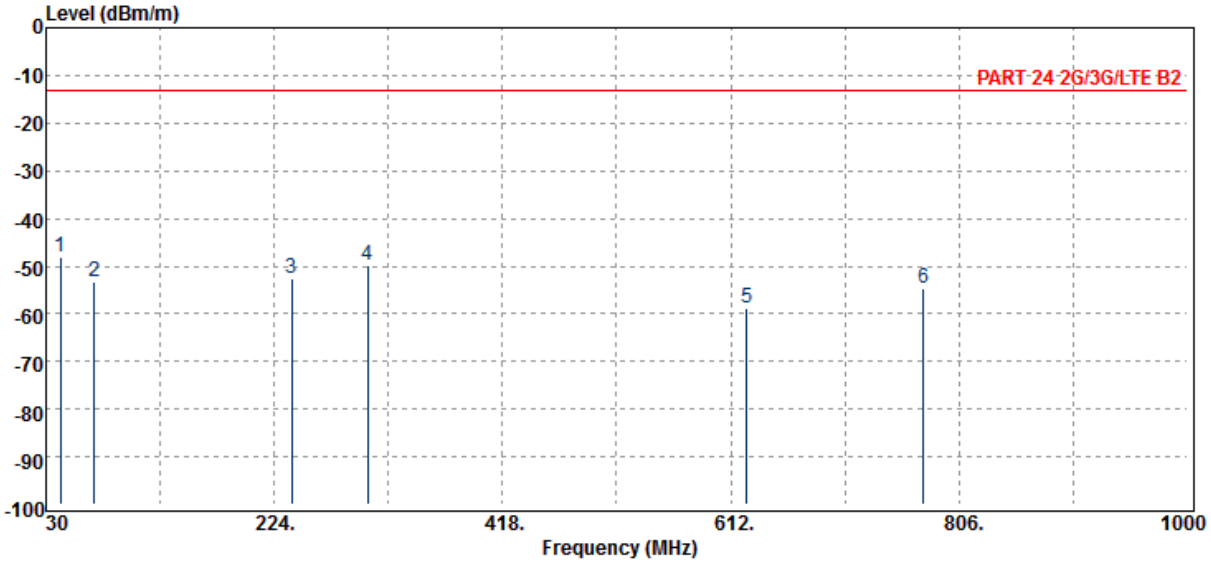
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-48.06	-36.80	-10.40	-0.85	-13.00	-35.06
70.74	S	-53.35	-48.91	-3.43	-1.01	-13.00	-40.35
238.55	S	-52.53	-56.36	5.44	-1.60	-13.00	-39.53
303.54	S	-49.68	-53.67	5.78	-1.80	-13.00	-36.68
625.58	S	-58.93	-61.92	5.69	-2.70	-13.00	-45.93
775.93	S	-54.70	-57.45	5.52	-2.76	-13.00	-41.70

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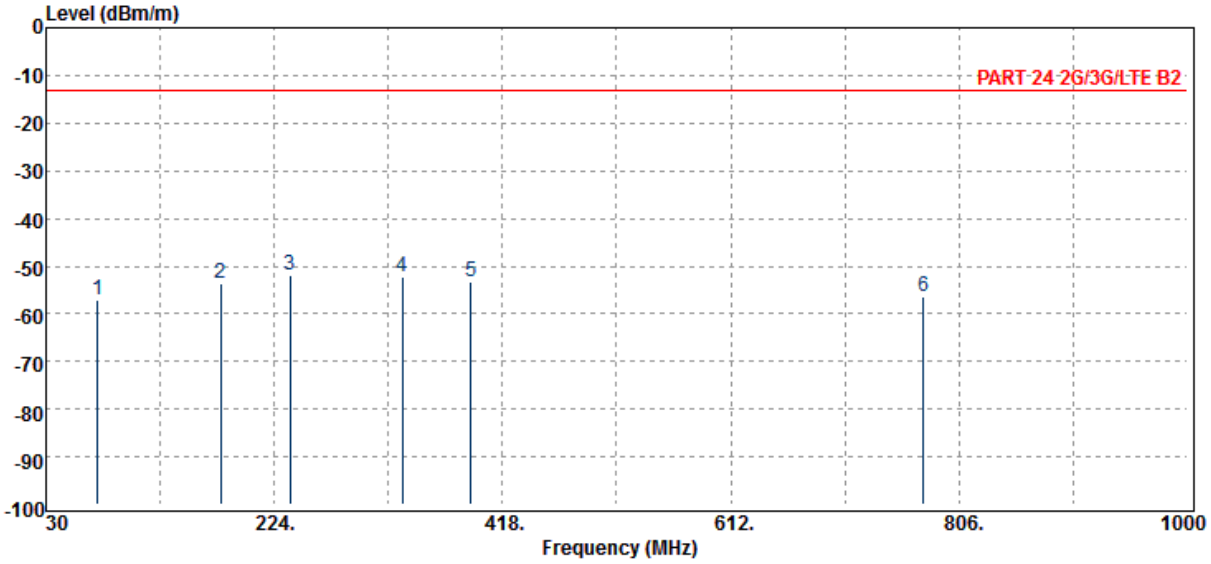
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
73.65	S	-57.19	-53.66	-2.50	-1.03	-13.00	-44.19
178.41	S	-53.52	-54.89	2.87	-1.50	-13.00	-40.52
237.58	S	-51.97	-55.82	5.44	-1.60	-13.00	-38.97
332.64	S	-52.30	-56.26	5.87	-1.91	-13.00	-39.30
390.84	S	-53.41	-57.26	5.80	-1.95	-13.00	-40.41
775.93	S	-56.36	-59.11	5.52	-2.76	-13.00	-43.36

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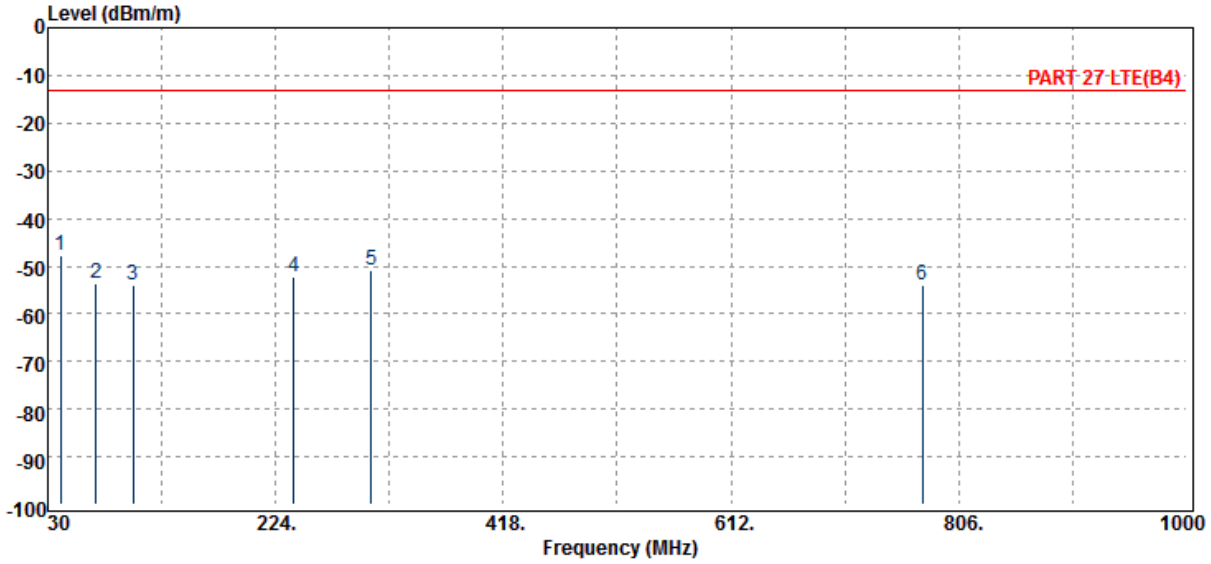
Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4 (The Worst Case)

ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-47.81	-36.41	-10.57	-0.84	-13.00	-34.81
70.74	S	-53.58	-49.14	-3.43	-1.01	-13.00	-40.58
102.75	S	-53.82	-53.10	0.41	-1.13	-13.00	-40.82
239.52	S	-52.41	-56.24	5.44	-1.61	-13.00	-39.41
305.48	S	-50.70	-54.68	5.79	-1.81	-13.00	-37.70
774.96	S	-53.81	-56.56	5.51	-2.76	-13.00	-40.81

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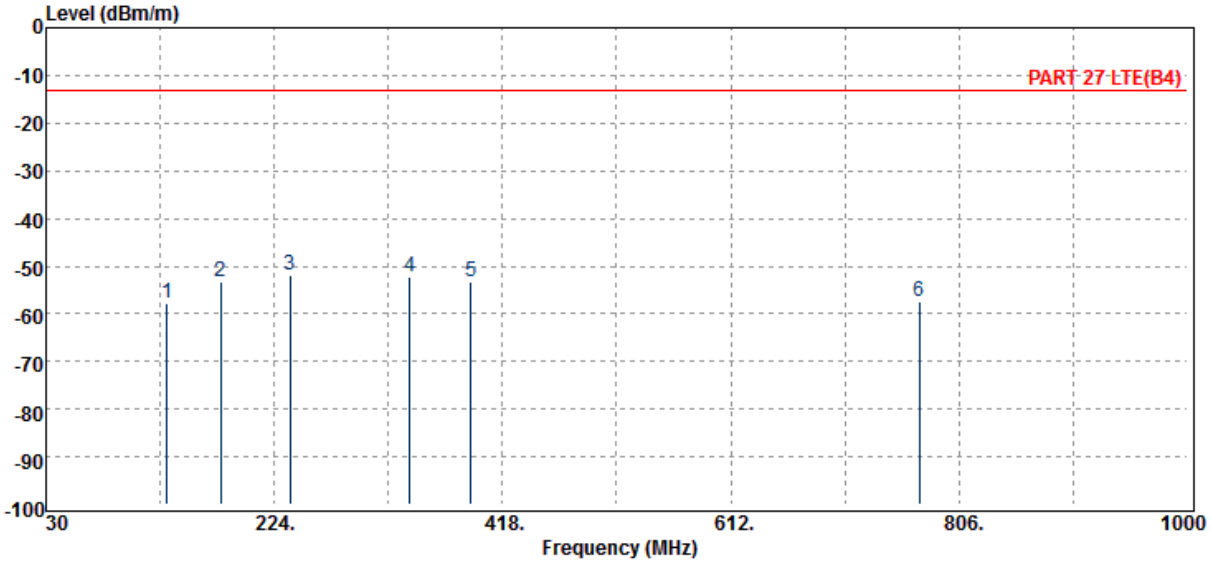
ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
132.82	S	-57.93	-56.23	-0.41	-1.29	-13.00	-44.93
178.41	S	-53.39	-54.76	2.87	-1.50	-13.00	-40.39
237.58	S	-51.76	-55.60	5.44	-1.60	-13.00	-38.76
339.43	S	-52.22	-56.17	5.88	-1.93	-13.00	-39.22
390.84	S	-53.44	-57.28	5.80	-1.95	-13.00	-40.44
772.05	S	-57.30	-60.06	5.50	-2.75	-13.00	-44.30

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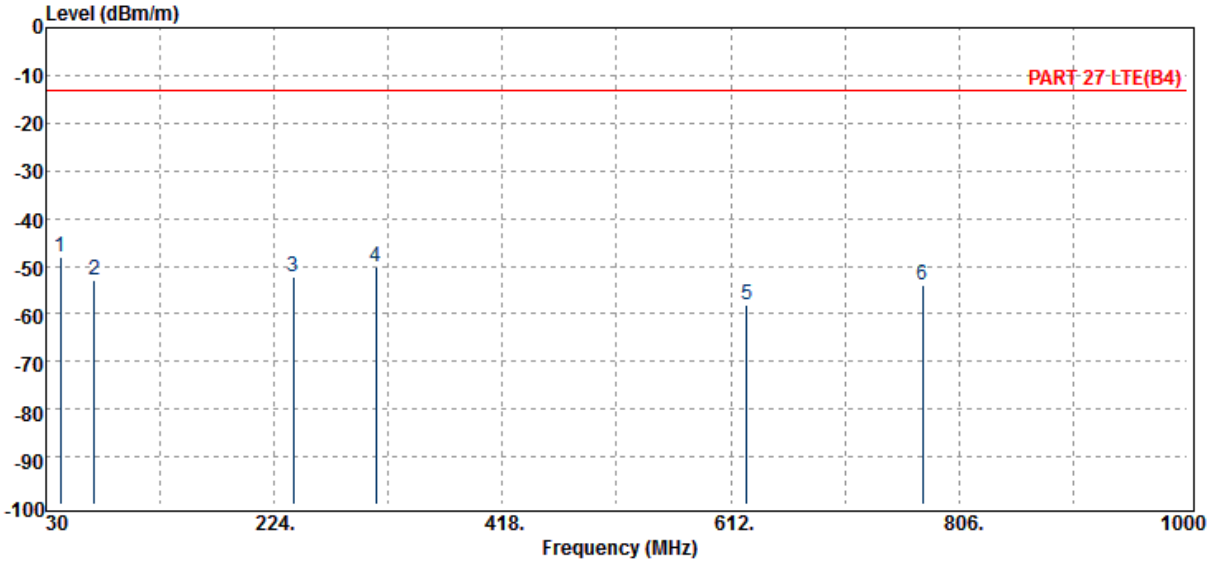
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-47.94	-36.68	-10.40	-0.85	-13.00	-34.94
70.74	S	-52.82	-48.37	-3.43	-1.01	-13.00	-39.82
240.49	S	-52.42	-56.25	5.44	-1.61	-13.00	-39.42
310.33	S	-50.23	-54.20	5.80	-1.83	-13.00	-37.23
625.58	S	-58.28	-61.27	5.69	-2.70	-13.00	-45.28
774.96	S	-53.97	-56.72	5.51	-2.76	-13.00	-40.97

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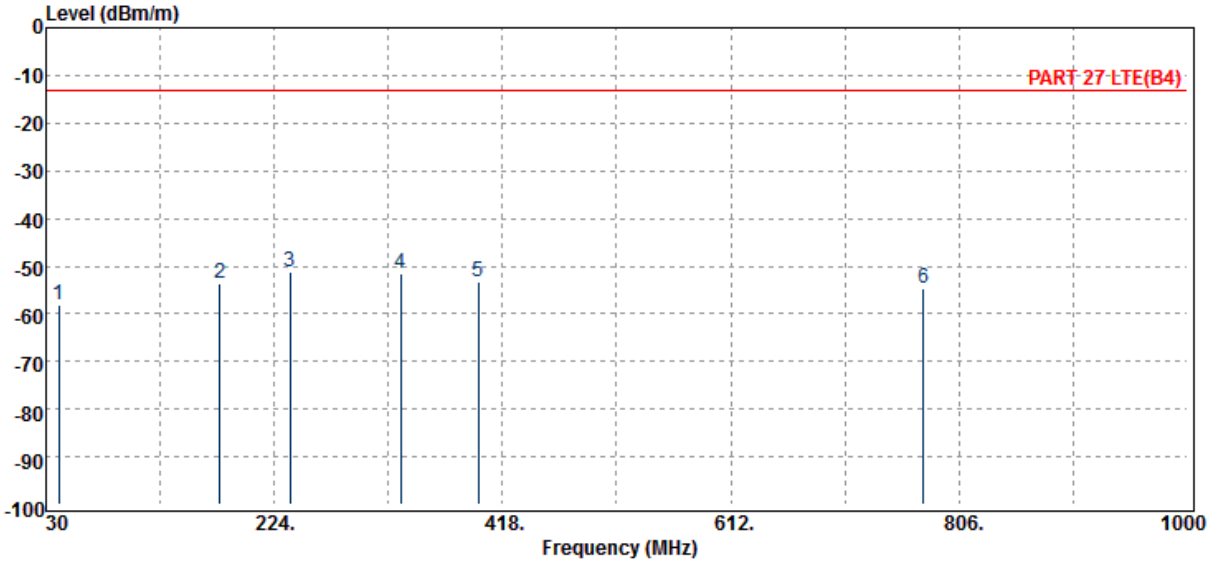
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
40.67	S	-58.25	-46.84	-10.57	-0.84	-13.00	-45.25
177.44	S	-53.47	-54.68	2.71	-1.50	-13.00	-40.47
237.58	S	-51.21	-55.05	5.44	-1.60	-13.00	-38.21
331.67	S	-51.60	-55.56	5.86	-1.90	-13.00	-38.60
397.63	S	-53.14	-56.98	5.78	-1.95	-13.00	-40.14
775.93	S	-54.75	-57.50	5.52	-2.76	-13.00	-41.75

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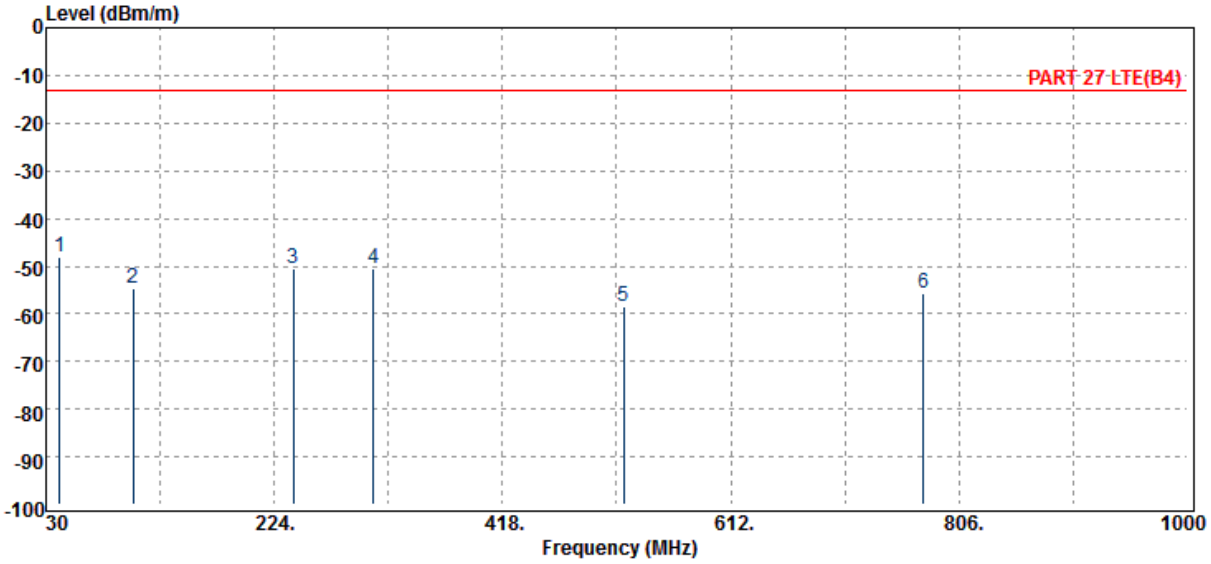
ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-48.15	-36.82	-10.48	-0.84	-13.00	-35.15
103.72	S	-54.51	-53.71	0.33	-1.13	-13.00	-41.51
240.49	S	-50.69	-54.52	5.44	-1.61	-13.00	-37.69
308.39	S	-50.67	-54.65	5.80	-1.82	-13.00	-37.67
520.82	S	-58.62	-62.03	5.84	-2.42	-13.00	-45.62
775.93	S	-55.75	-58.50	5.52	-2.76	-13.00	-42.75

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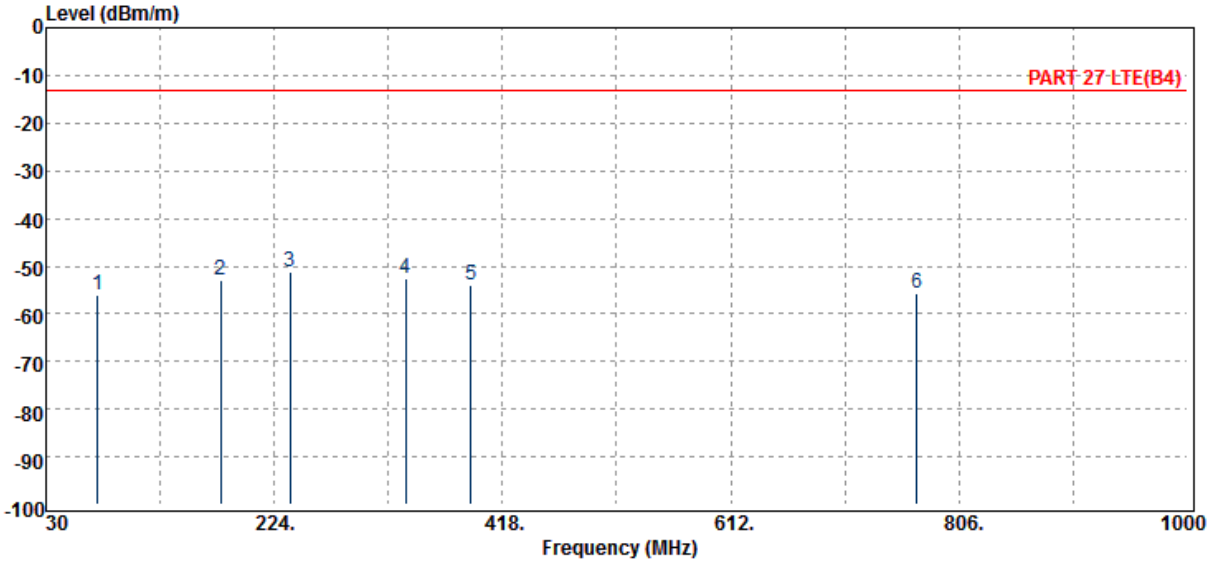
ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
73.65	S	-56.12	-52.59	-2.50	-1.03	-13.00	-43.12
178.41	S	-52.93	-54.30	2.87	-1.50	-13.00	-39.93
237.58	S	-51.29	-55.13	5.44	-1.60	-13.00	-38.29
335.55	S	-52.46	-56.42	5.87	-1.92	-13.00	-39.46
390.84	S	-53.81	-57.66	5.80	-1.95	-13.00	-40.81
770.11	S	-55.59	-58.35	5.50	-2.74	-13.00	-42.59

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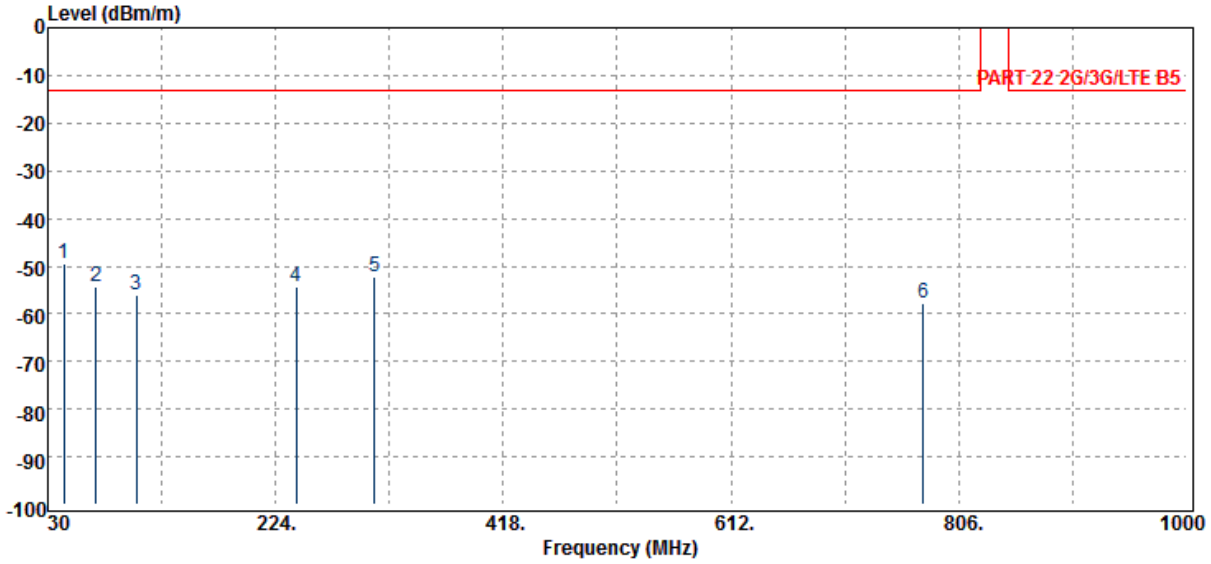
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5 (The Worst Case)

ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-49.60	-36.27	-12.47	-0.86	-13.00	-36.60
70.74	S	-54.46	-47.87	-5.58	-1.01	-13.00	-41.46
105.66	S	-56.13	-53.03	-1.97	-1.14	-13.00	-43.13
241.46	S	-54.29	-55.98	3.31	-1.61	-13.00	-41.29
308.39	S	-52.40	-54.23	3.65	-1.82	-13.00	-39.40
775.93	S	-57.87	-58.47	3.37	-2.76	-13.00	-44.87

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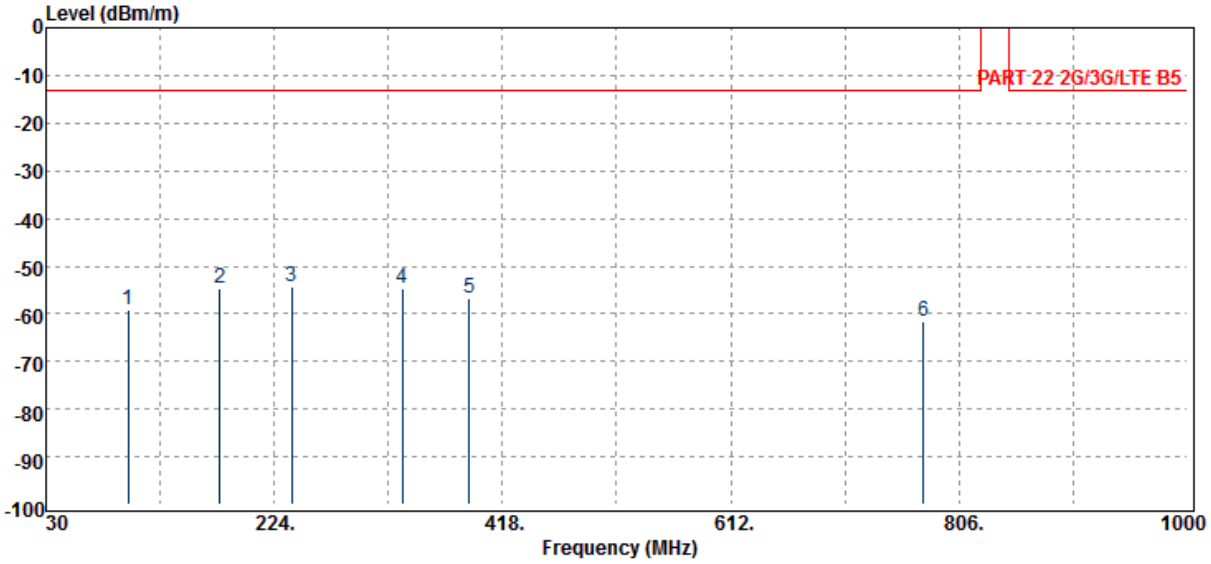
ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
99.84	S	-59.25	-56.62	-1.50	-1.12	-13.00	-46.25
177.44	S	-54.58	-53.65	0.56	-1.50	-13.00	-41.58
238.55	S	-54.22	-55.91	3.29	-1.60	-13.00	-41.22
332.64	S	-54.58	-56.39	3.72	-1.91	-13.00	-41.58
389.87	S	-56.86	-58.56	3.65	-1.95	-13.00	-43.86
775.93	S	-61.52	-62.13	3.37	-2.76	-13.00	-48.52

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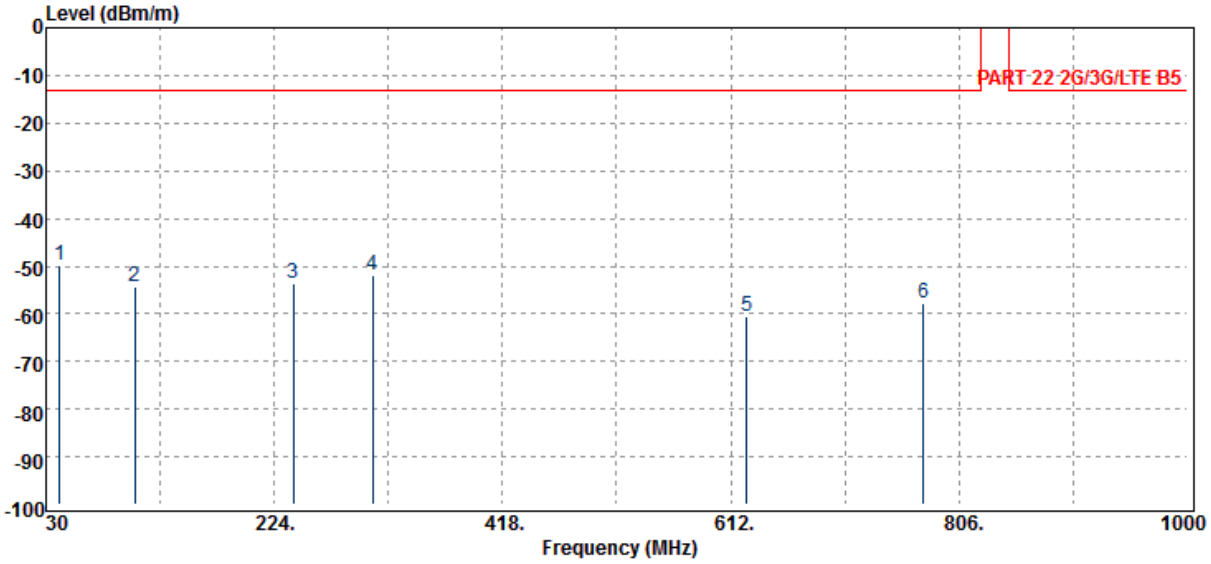
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-49.94	-36.47	-12.63	-0.84	-13.00	-36.94
105.66	S	-54.42	-51.32	-1.97	-1.14	-13.00	-41.42
240.49	S	-53.74	-55.42	3.29	-1.61	-13.00	-40.74
307.42	S	-51.94	-53.77	3.64	-1.81	-13.00	-38.94
625.58	S	-60.72	-61.57	3.54	-2.70	-13.00	-47.72
775.93	S	-57.62	-58.22	3.37	-2.76	-13.00	-44.62

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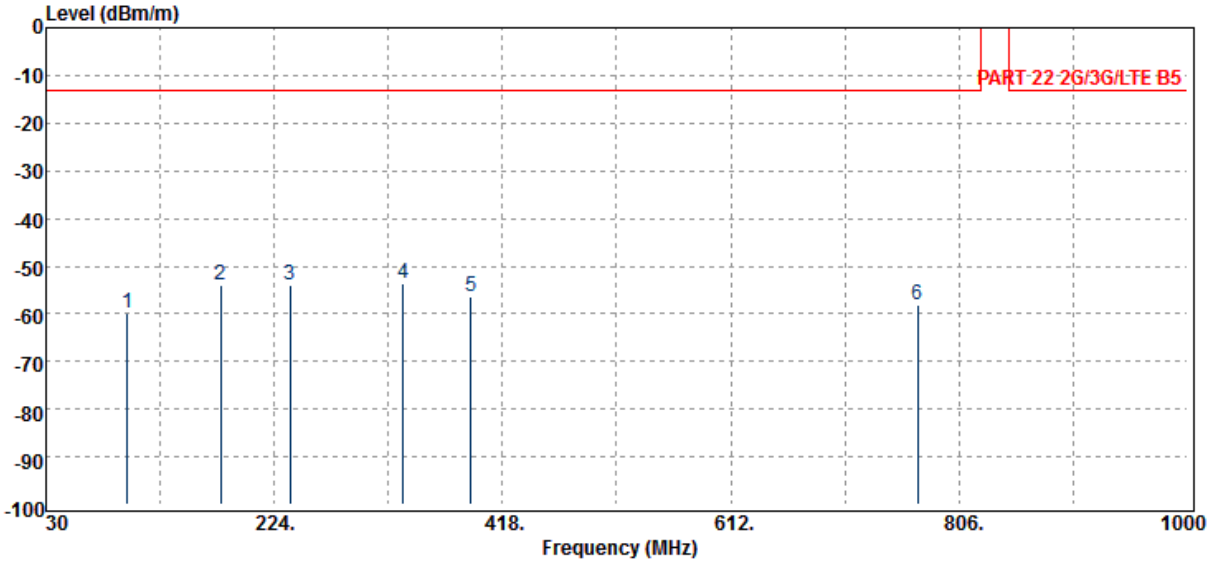
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
98.87	S	-59.77	-57.25	-1.40	-1.12	-13.00	-46.77
178.41	S	-53.93	-53.15	0.72	-1.50	-13.00	-40.93
237.58	S	-54.10	-55.79	3.29	-1.60	-13.00	-41.10
333.61	S	-53.61	-55.42	3.72	-1.91	-13.00	-40.61
390.84	S	-56.30	-58.00	3.65	-1.95	-13.00	-43.30
771.08	S	-58.29	-58.89	3.35	-2.75	-13.00	-45.29

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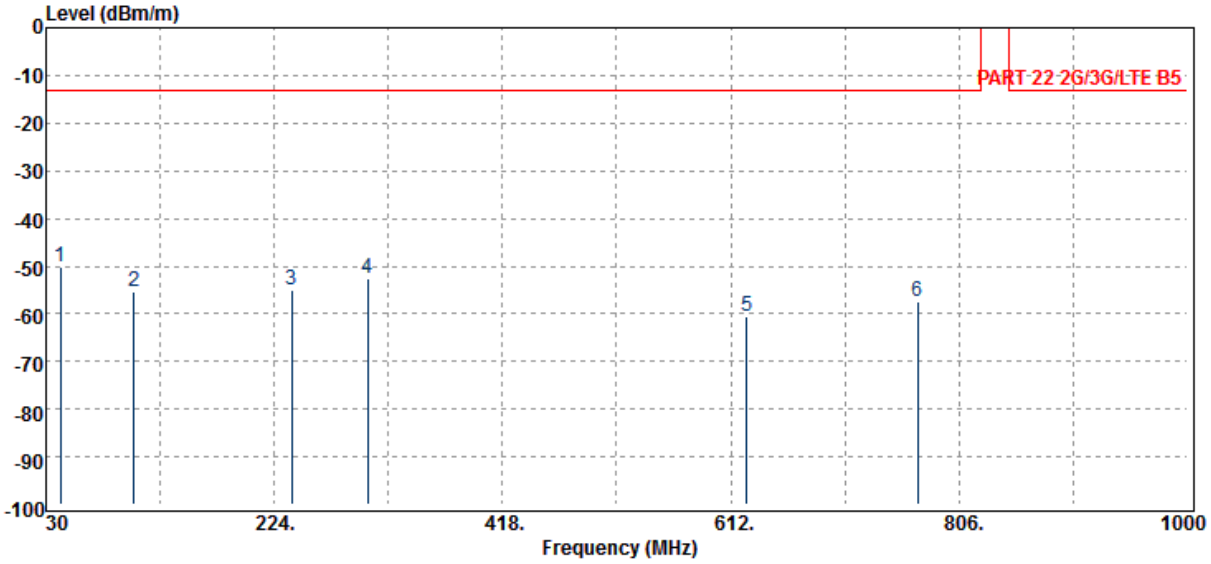
ARFCN	:CH 50643 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-50.09	-36.69	-12.55	-0.85	-13.00	-37.09
104.69	S	-55.23	-52.20	-1.89	-1.14	-13.00	-42.23
238.55	S	-54.88	-56.57	3.29	-1.60	-13.00	-41.88
303.54	S	-52.76	-54.59	3.63	-1.80	-13.00	-39.76
625.58	S	-60.58	-61.42	3.54	-2.70	-13.00	-47.58
771.08	S	-57.28	-57.89	3.35	-2.75	-13.00	-44.28

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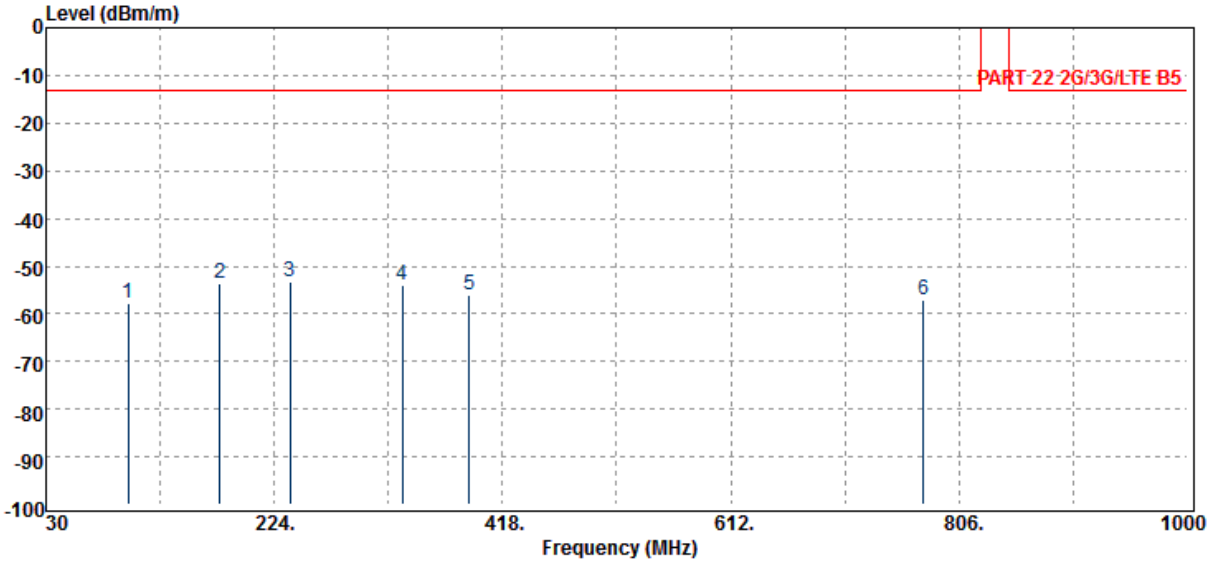
ARFCN	:CH 50643 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
99.84	S	-57.65	-55.03	-1.50	-1.12	-13.00	-44.65
177.44	S	-53.78	-52.84	0.56	-1.50	-13.00	-40.78
237.58	S	-53.44	-55.13	3.29	-1.60	-13.00	-40.44
332.64	S	-53.91	-55.72	3.72	-1.91	-13.00	-40.91
389.87	S	-56.07	-57.77	3.65	-1.95	-13.00	-43.07
775.93	S	-57.11	-57.71	3.37	-2.76	-13.00	-44.11

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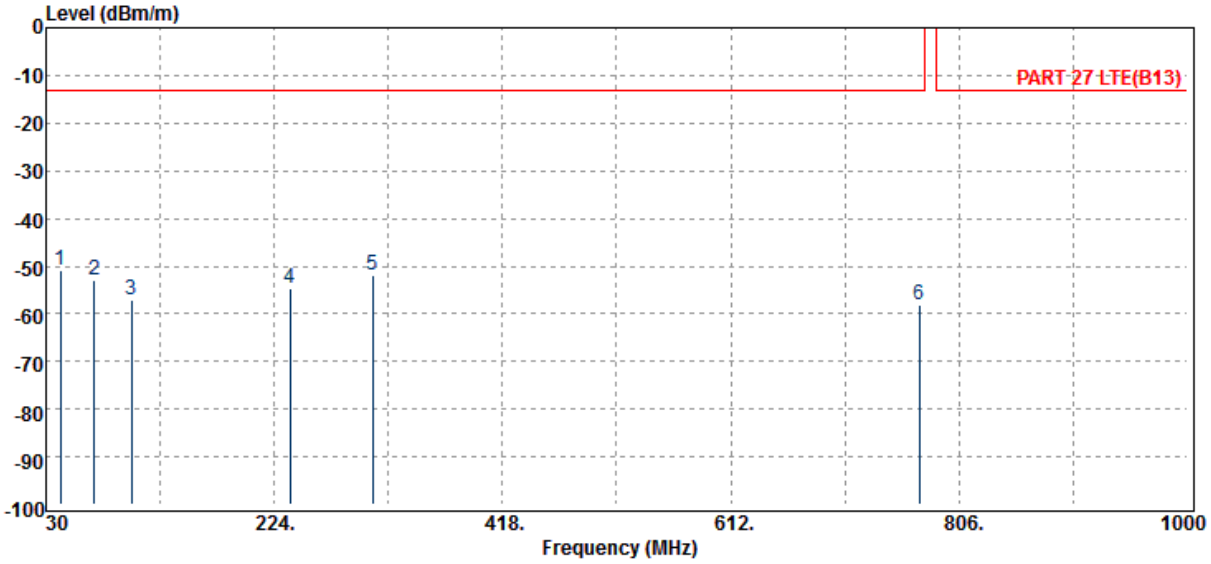
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-50.76	-37.35	-12.55	-0.85	-13.00	-37.76
70.74	S	-52.95	-46.36	-5.58	-1.01	-13.00	-39.95
102.75	S	-57.00	-54.13	-1.74	-1.13	-13.00	-44.00
237.58	S	-54.78	-56.47	3.29	-1.60	-13.00	-41.78
307.42	S	-51.79	-53.62	3.64	-1.81	-13.00	-38.79
772.05	S	-58.29	-58.90	3.35	-2.75	-13.00	-45.29

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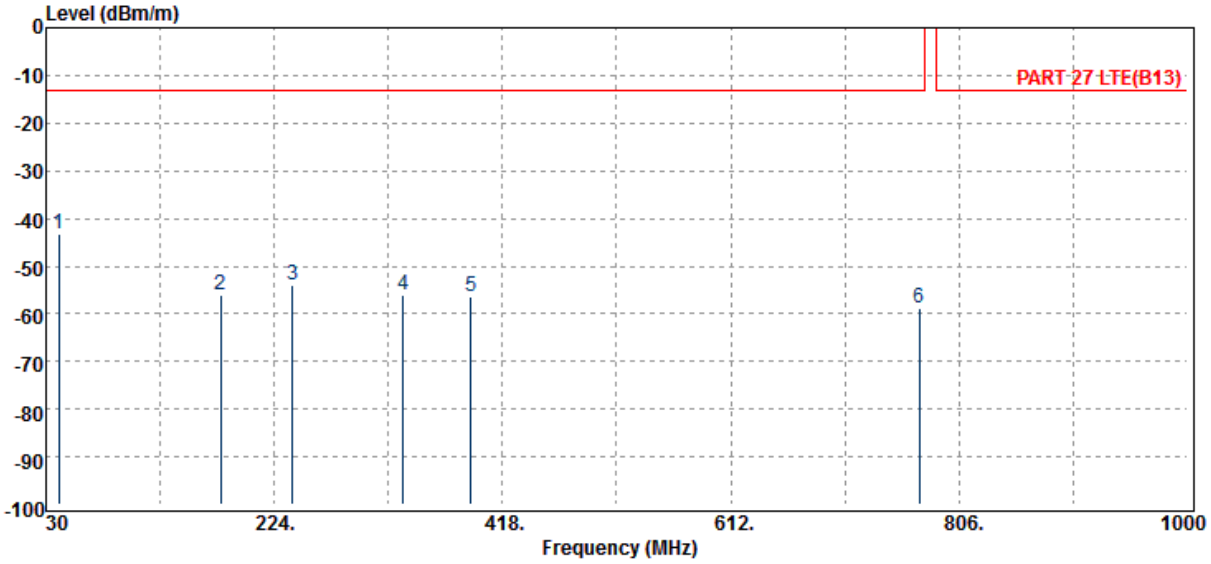
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
40.67	S	-43.26	-29.71	-12.72	-0.84	-13.00	-30.26
178.41	S	-56.06	-55.29	0.72	-1.50	-13.00	-43.06
239.52	S	-53.98	-55.66	3.29	-1.61	-13.00	-40.98
333.61	S	-55.94	-57.75	3.72	-1.91	-13.00	-42.94
390.84	S	-56.52	-58.22	3.65	-1.95	-13.00	-43.52
772.05	S	-58.85	-59.45	3.35	-2.75	-13.00	-45.85

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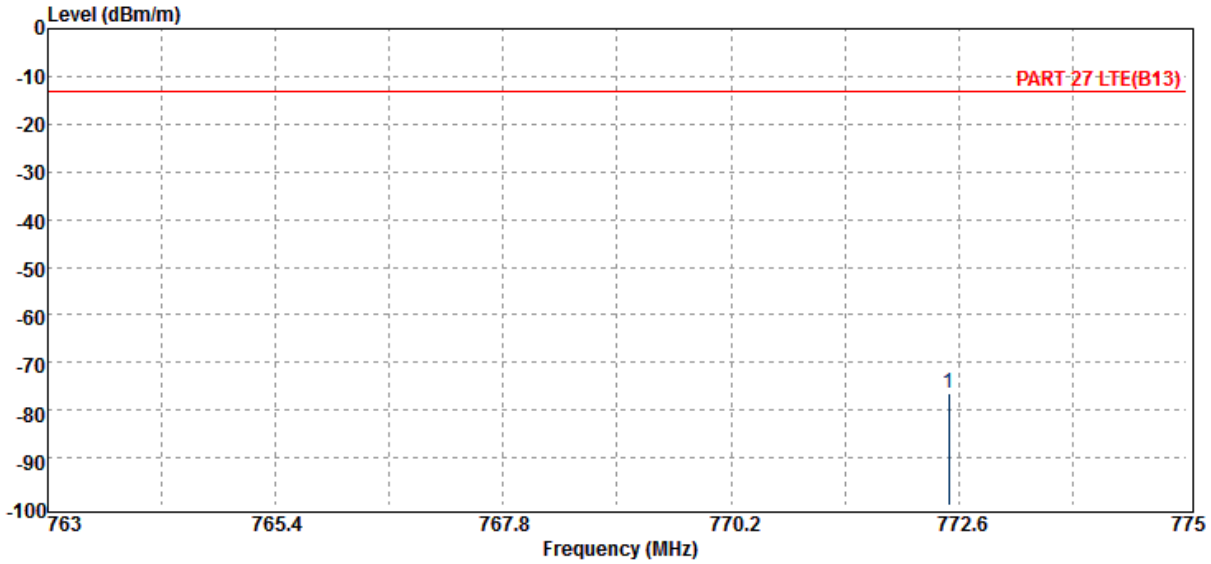
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

(763MHz -755MHz)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
772.49	S	-76.55	-77.15	3.35	-2.75	-13.00	-63.55

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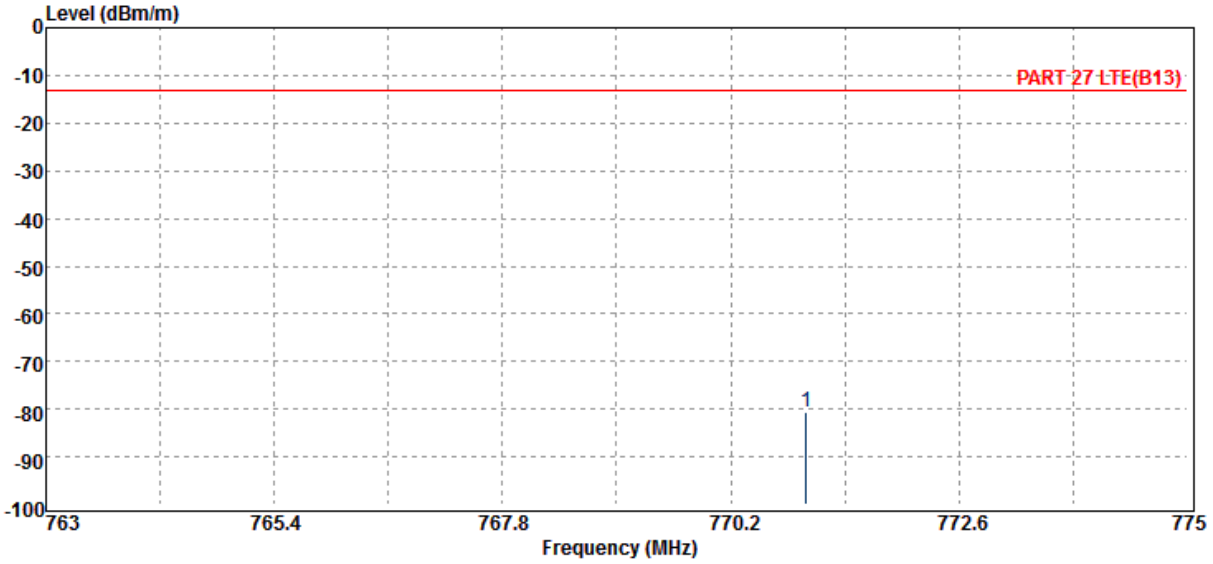
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
770.99	S	-80.73	-81.33	3.35	-2.75	-13.00	-67.73

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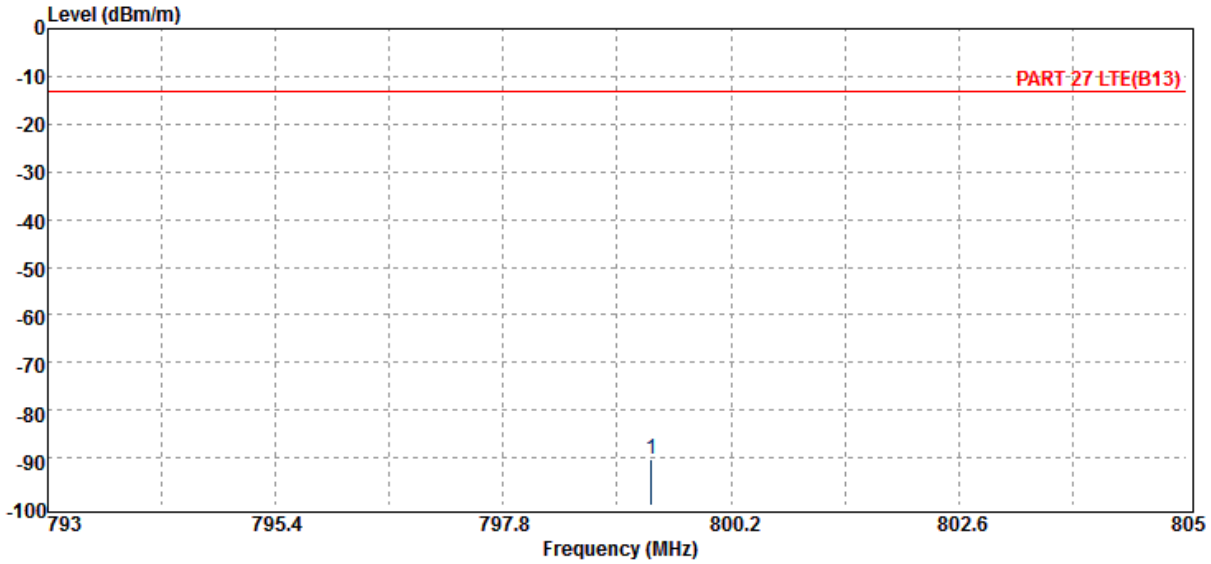
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

(793MHz -805MHz)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
799.36	S	-90.17	-90.76	3.44	-2.85	-13.00	-77.17

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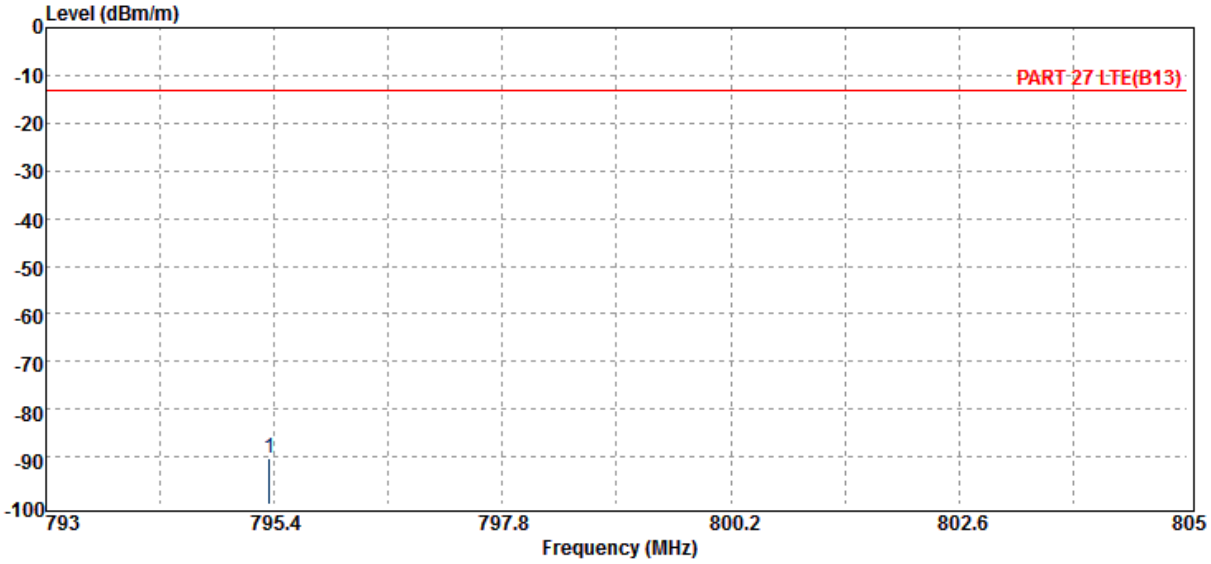
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
795.35	S	-90.16	-90.75	3.43	-2.84	-13.00	-77.16

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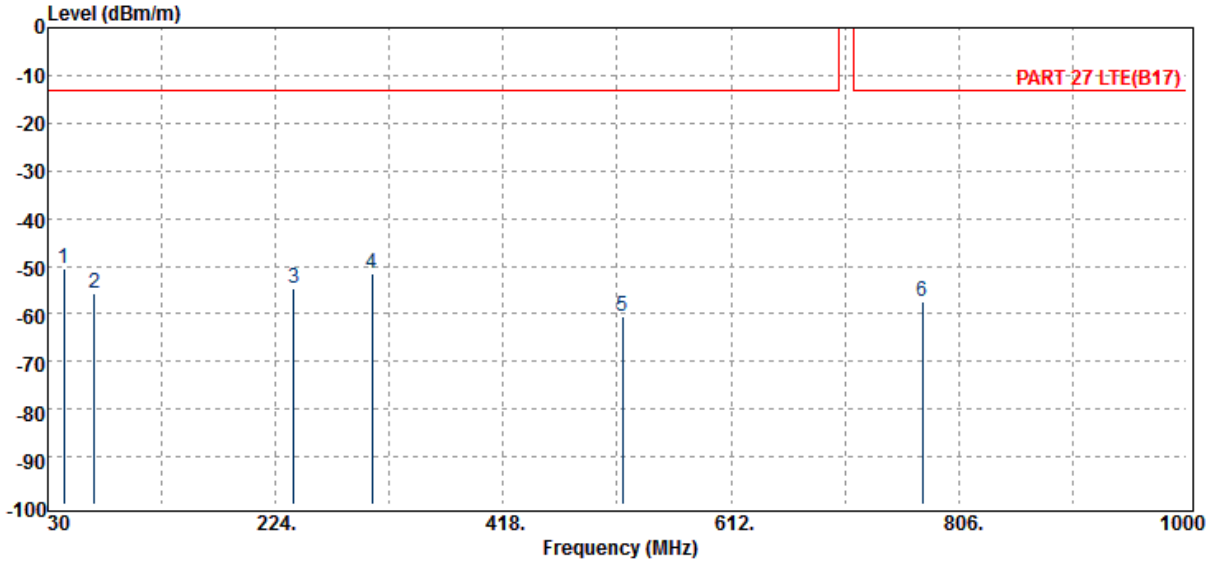
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-50.53	-37.20	-12.47	-0.86	-13.00	-37.53
69.77	S	-55.63	-48.74	-5.88	-1.01	-13.00	-42.63
239.52	S	-54.71	-56.39	3.29	-1.61	-13.00	-41.71
306.45	S	-51.52	-53.35	3.64	-1.81	-13.00	-38.52
519.85	S	-60.48	-61.76	3.69	-2.41	-13.00	-47.48
774.96	S	-57.32	-57.92	3.36	-2.76	-13.00	-44.32

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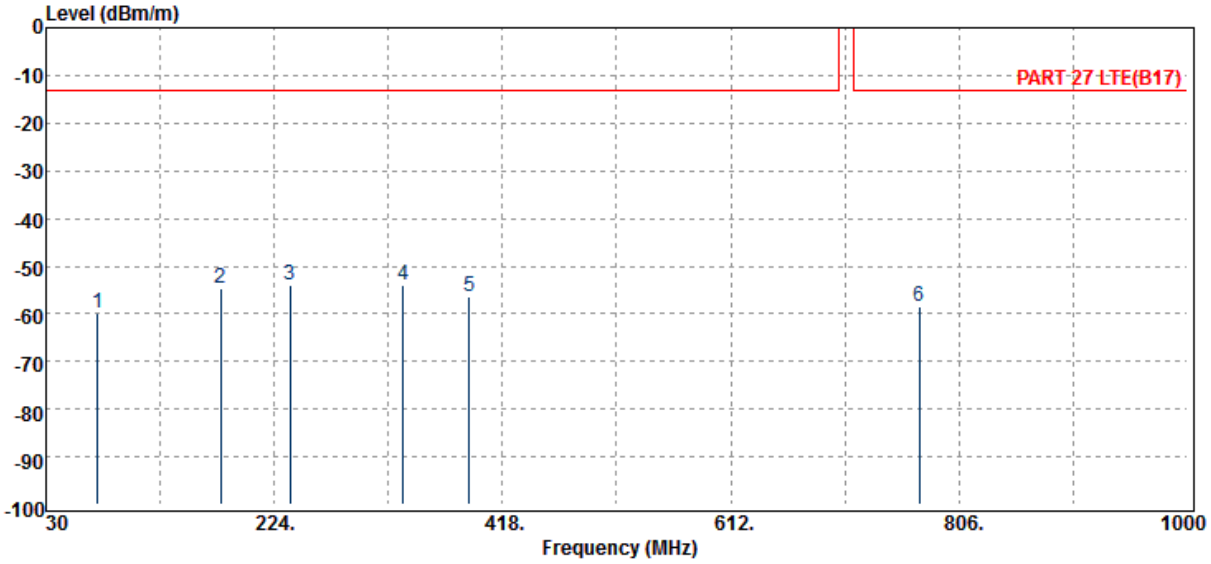
ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
73.65	S	-59.85	-54.17	-4.65	-1.03	-13.00	-46.85
178.41	S	-54.51	-53.73	0.72	-1.50	-13.00	-41.51
237.58	S	-54.12	-55.81	3.29	-1.60	-13.00	-41.12
333.61	S	-54.06	-55.87	3.72	-1.91	-13.00	-41.06
389.87	S	-56.53	-58.23	3.65	-1.95	-13.00	-43.53
772.05	S	-58.38	-58.98	3.35	-2.75	-13.00	-45.38

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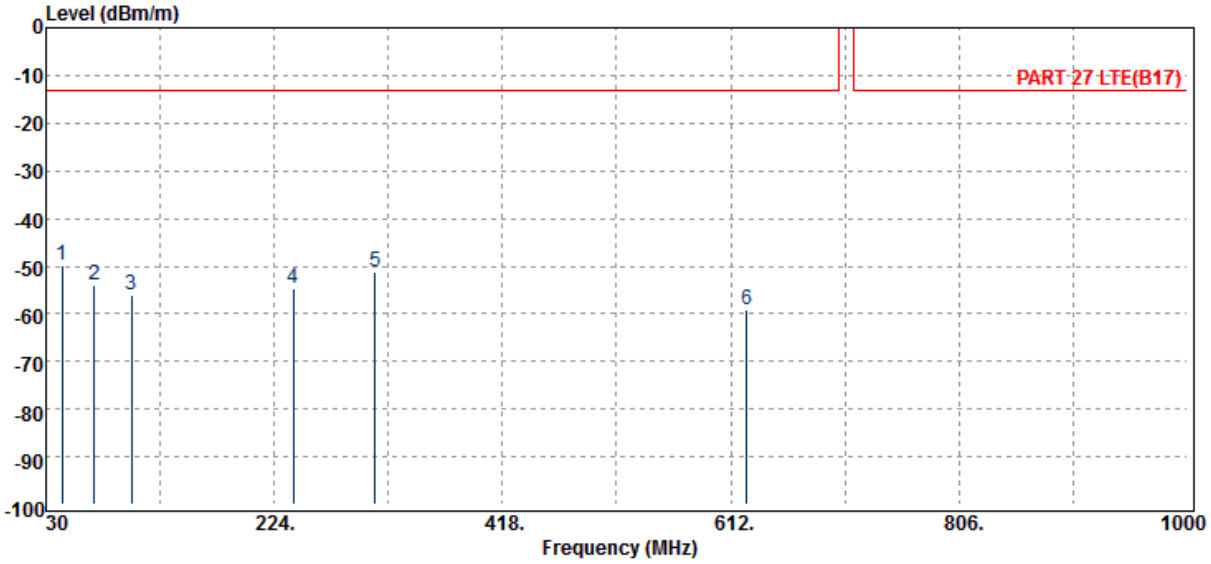
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
43.58	S	-49.77	-36.44	-12.47	-0.86	-13.00	-36.77
70.74	S	-53.87	-47.28	-5.58	-1.01	-13.00	-40.87
102.75	S	-56.00	-53.13	-1.74	-1.13	-13.00	-43.00
240.49	S	-54.84	-56.52	3.29	-1.61	-13.00	-41.84
309.36	S	-51.20	-53.03	3.65	-1.82	-13.00	-38.20
625.58	S	-59.08	-59.92	3.54	-2.70	-13.00	-46.08

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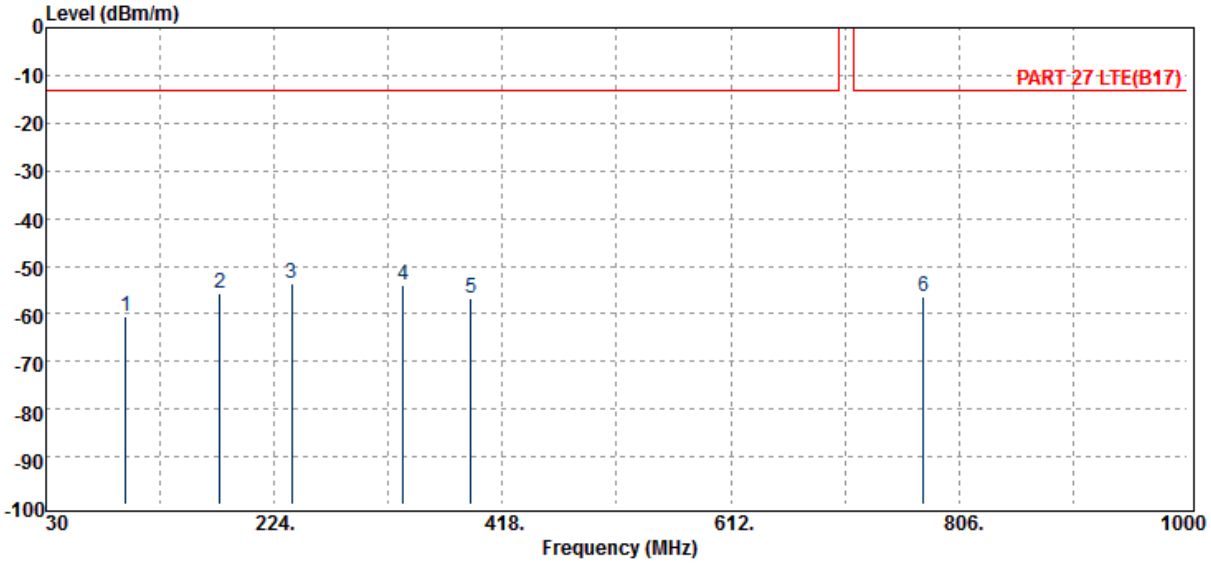
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
97.90	S	-60.43	-58.02	-1.30	-1.11	-13.00	-47.43
177.44	S	-55.56	-54.63	0.56	-1.50	-13.00	-42.56
238.55	S	-53.72	-55.41	3.29	-1.60	-13.00	-40.72
333.61	S	-54.06	-55.87	3.72	-1.91	-13.00	-41.06
390.84	S	-56.82	-58.52	3.65	-1.95	-13.00	-43.82
775.93	S	-56.33	-56.94	3.37	-2.76	-13.00	-43.33

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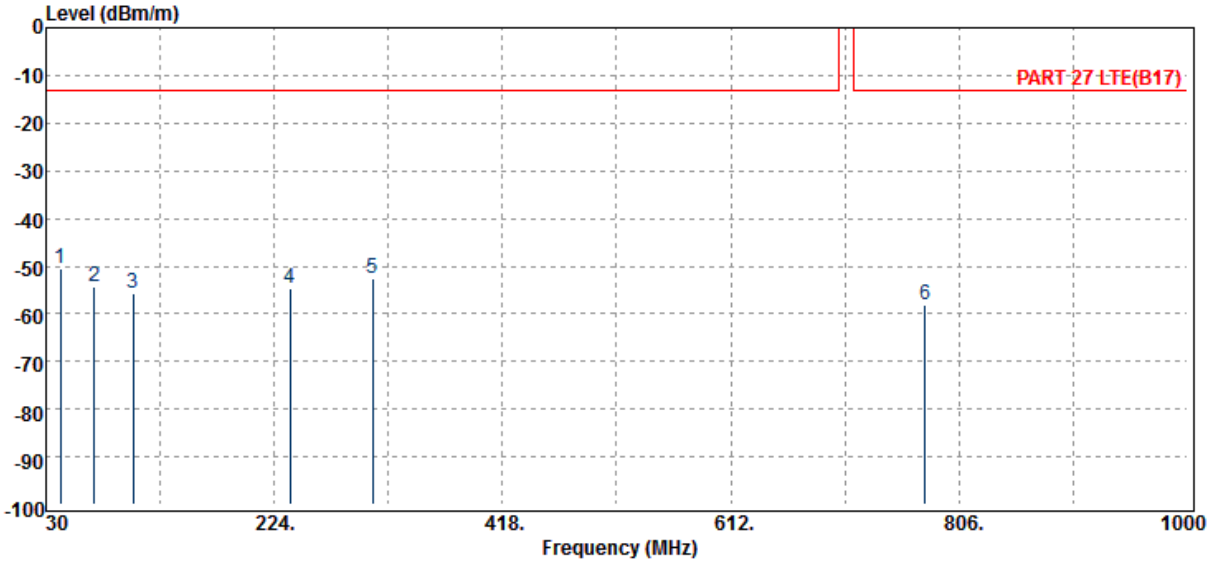
ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
42.61	S	-50.44	-37.04	-12.55	-0.85	-13.00	-37.44
70.74	S	-54.31	-47.72	-5.58	-1.01	-13.00	-41.31
103.72	S	-55.64	-52.69	-1.82	-1.13	-13.00	-42.64
237.58	S	-54.63	-56.32	3.29	-1.60	-13.00	-41.63
307.42	S	-52.63	-54.46	3.64	-1.81	-13.00	-39.63
776.90	S	-58.24	-58.84	3.37	-2.77	-13.00	-45.24

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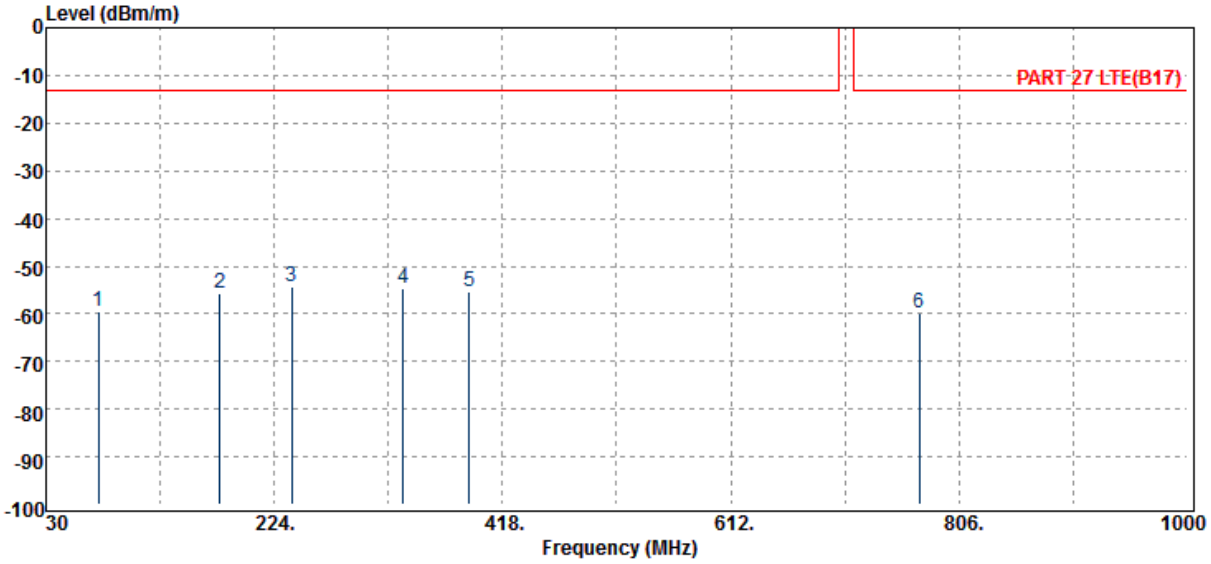
ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
74.62	S	-59.53	-54.14	-4.35	-1.03	-13.00	-46.53
177.44	S	-55.72	-54.79	0.56	-1.50	-13.00	-42.72
238.55	S	-54.49	-56.18	3.29	-1.60	-13.00	-41.49
333.61	S	-54.59	-56.40	3.72	-1.91	-13.00	-41.59
389.87	S	-55.49	-57.19	3.65	-1.95	-13.00	-42.49
772.05	S	-60.00	-60.60	3.35	-2.75	-13.00	-47.00

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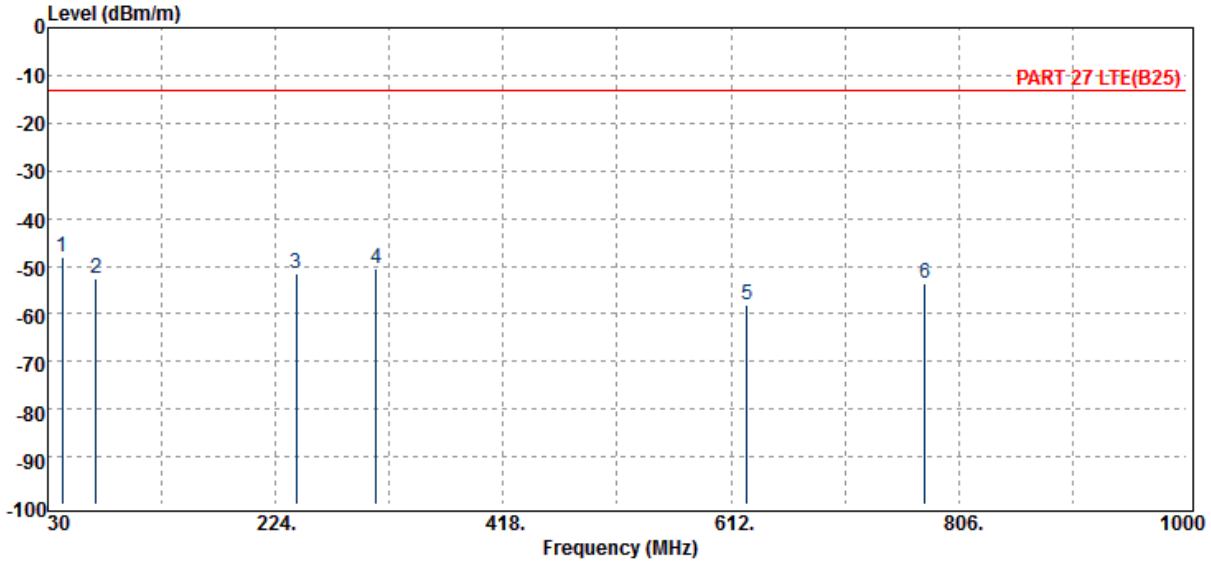
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 25 (The Worst Case)

ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-48.24	-36.99	-10.40	-0.85	-13.00	-35.24
70.74	S	-52.70	-48.26	-3.43	-1.01	-13.00	-39.70
241.46	S	-51.46	-55.30	5.46	-1.61	-13.00	-38.46
309.36	S	-50.48	-54.46	5.80	-1.82	-13.00	-37.48
625.58	S	-57.98	-60.98	5.69	-2.70	-13.00	-44.98
776.90	S	-53.70	-56.45	5.52	-2.77	-13.00	-40.70

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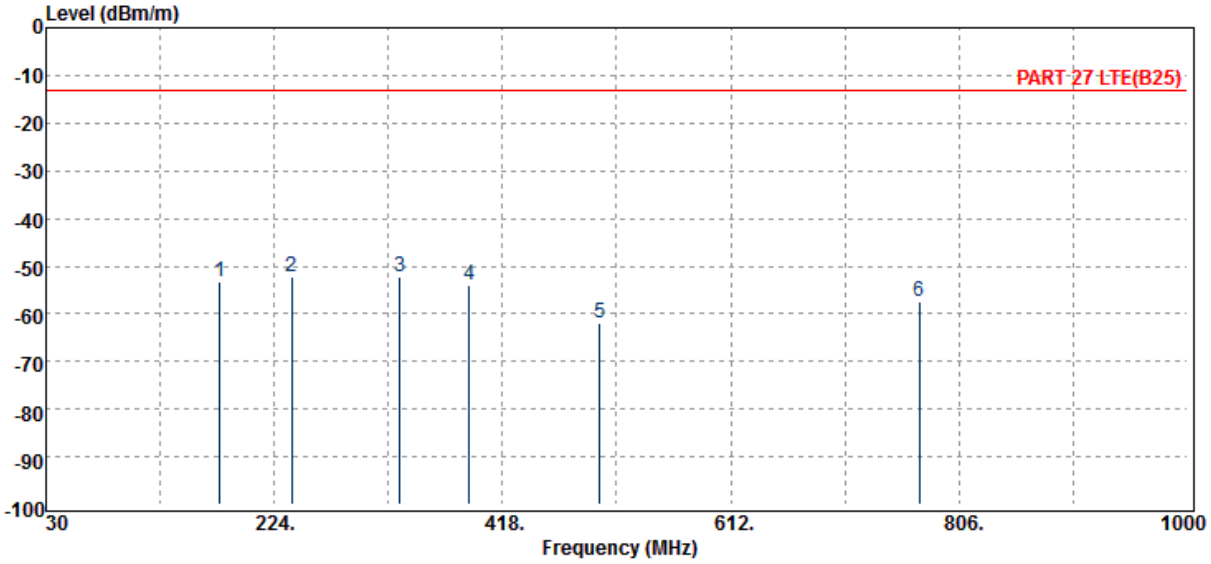
ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
177.44	S	-53.42	-54.63	2.71	-1.50	-13.00	-40.42
238.55	S	-52.38	-56.21	5.44	-1.60	-13.00	-39.38
330.70	S	-52.39	-56.35	5.86	-1.90	-13.00	-39.39
389.87	S	-53.99	-57.84	5.80	-1.95	-13.00	-40.99
500.45	S	-62.00	-65.60	5.91	-2.30	-13.00	-49.00
772.05	S	-57.28	-60.03	5.50	-2.75	-13.00	-44.28

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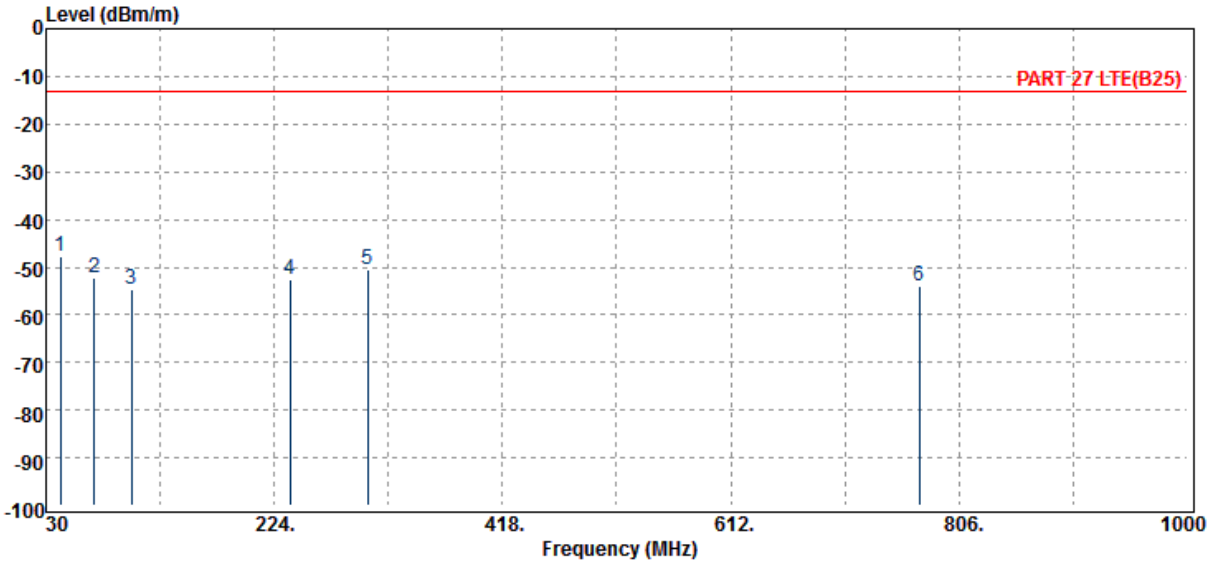
ARFCN	:CH 26365 16QAM BW 1.4 RB1 526047 16QAM B	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-47.74	-36.48	-10.40	-0.85	-13.00	-34.74
70.74	S	-52.23	-47.79	-3.43	-1.01	-13.00	-39.23
102.75	S	-54.78	-54.06	0.41	-1.13	-13.00	-41.78
237.58	S	-52.75	-56.59	5.44	-1.60	-13.00	-39.75
303.54	S	-50.42	-54.41	5.78	-1.80	-13.00	-37.42
772.05	S	-54.10	-56.85	5.50	-2.75	-13.00	-41.10

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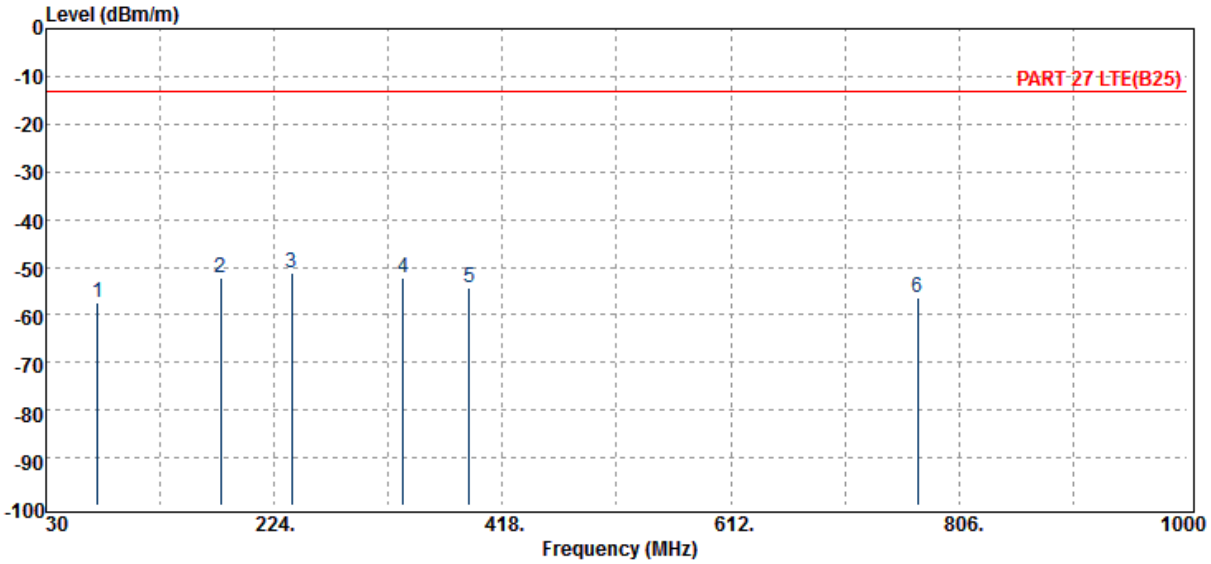
ARFCN	:CH 26365 16QAM BW 1.4 RB1 526047 16QAM B	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
73.65	S	-57.45	-53.92	-2.50	-1.03	-13.00	-44.45
178.41	S	-52.12	-53.49	2.87	-1.50	-13.00	-39.12
238.55	S	-51.37	-55.20	5.44	-1.60	-13.00	-38.37
333.61	S	-52.29	-56.25	5.87	-1.91	-13.00	-39.29
389.87	S	-54.37	-58.22	5.80	-1.95	-13.00	-41.37
771.08	S	-56.28	-59.04	5.50	-2.75	-13.00	-43.28

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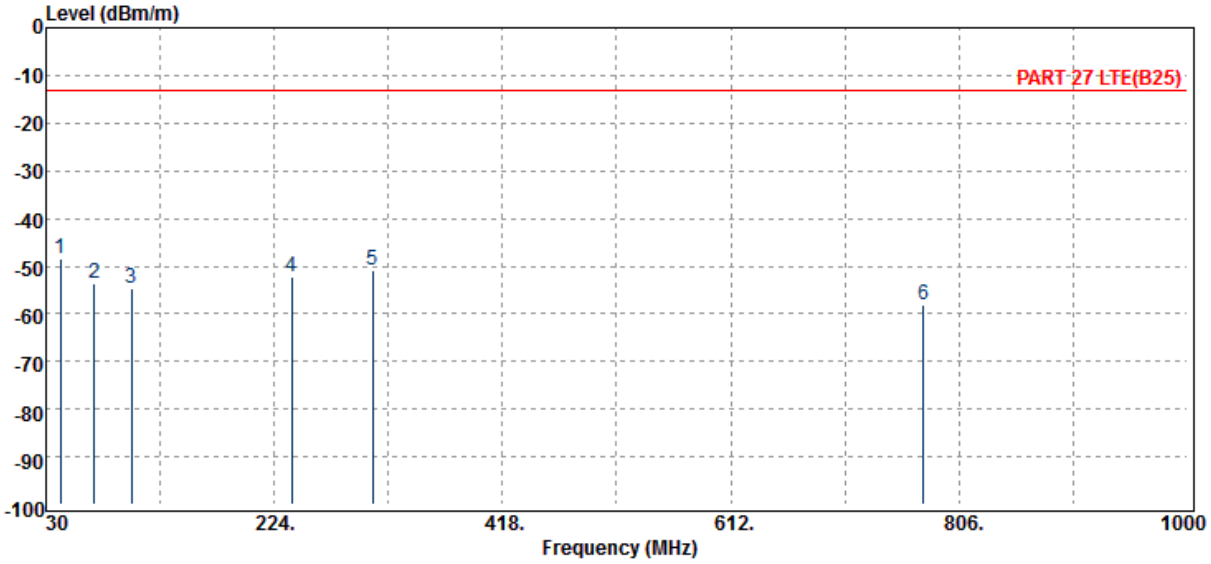
ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-48.58	-37.32	-10.40	-0.85	-13.00	-35.58
70.74	S	-53.54	-49.10	-3.43	-1.01	-13.00	-40.54
102.75	S	-54.77	-54.05	0.41	-1.13	-13.00	-41.77
238.55	S	-52.13	-55.96	5.44	-1.60	-13.00	-39.13
307.42	S	-50.81	-54.79	5.79	-1.81	-13.00	-37.81
775.93	S	-58.28	-61.03	5.52	-2.76	-13.00	-45.28

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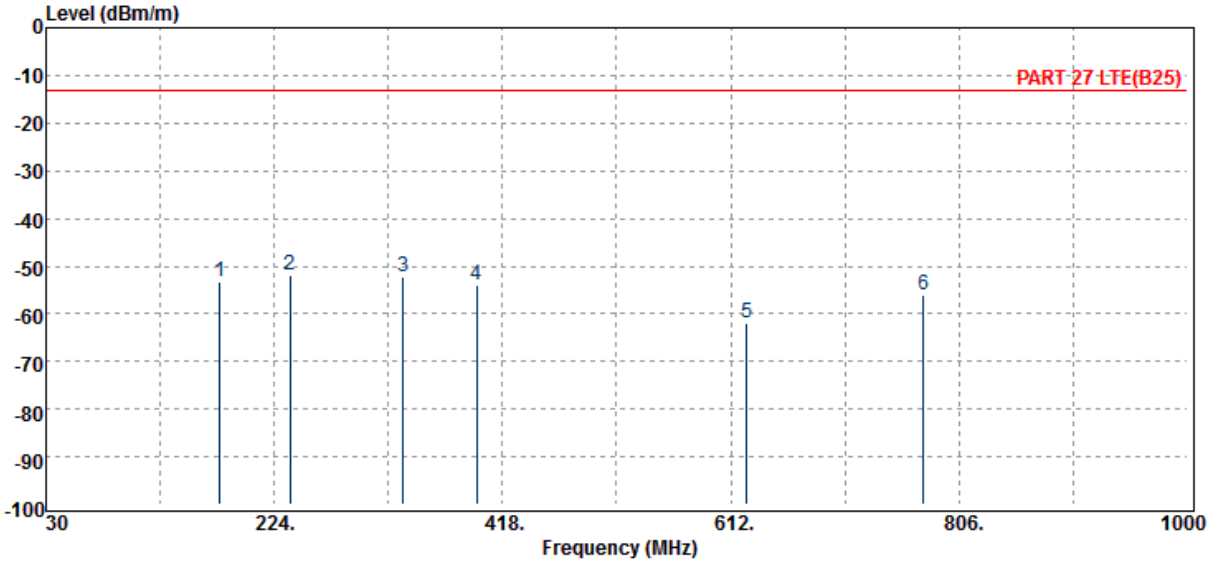
ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
177.44	S	-53.13	-54.35	2.71	-1.50	-13.00	-40.13
237.58	S	-51.84	-55.68	5.44	-1.60	-13.00	-38.84
333.61	S	-52.37	-56.33	5.87	-1.91	-13.00	-39.37
395.69	S	-53.98	-57.81	5.78	-1.95	-13.00	-40.98
625.58	S	-61.95	-64.95	5.69	-2.70	-13.00	-48.95
775.93	S	-55.95	-58.70	5.52	-2.76	-13.00	-42.95

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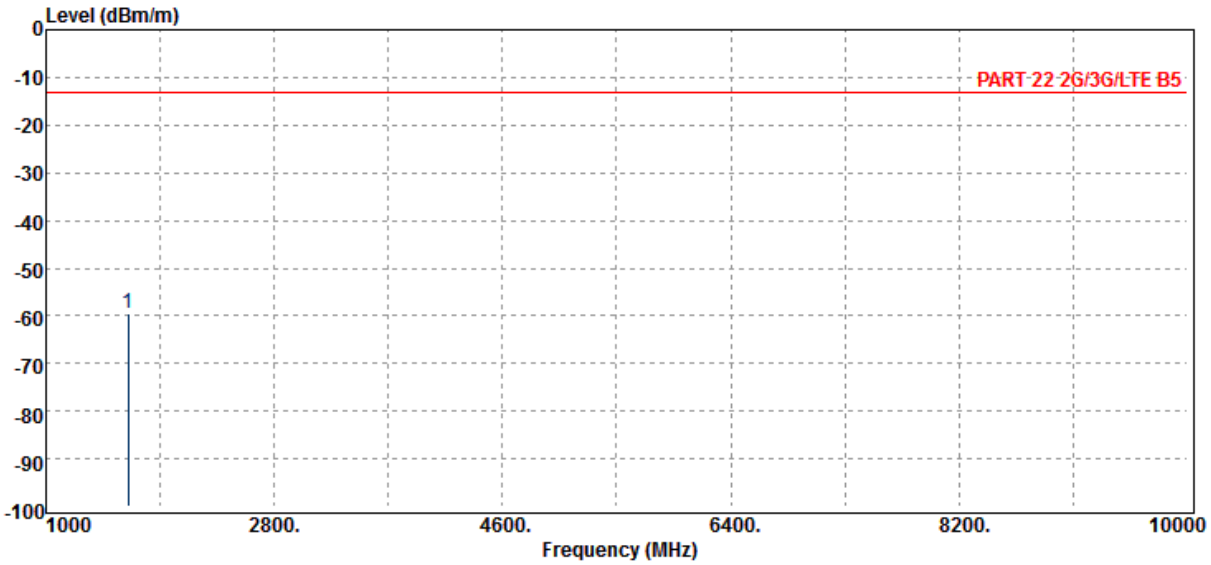
10.6. Measurement Result (Above 1GHz):

***Antenna Model No.: CVL-WLF-2V-BLK-12**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-59.59	-58.43	3.05	-4.21	-13.00	-46.59

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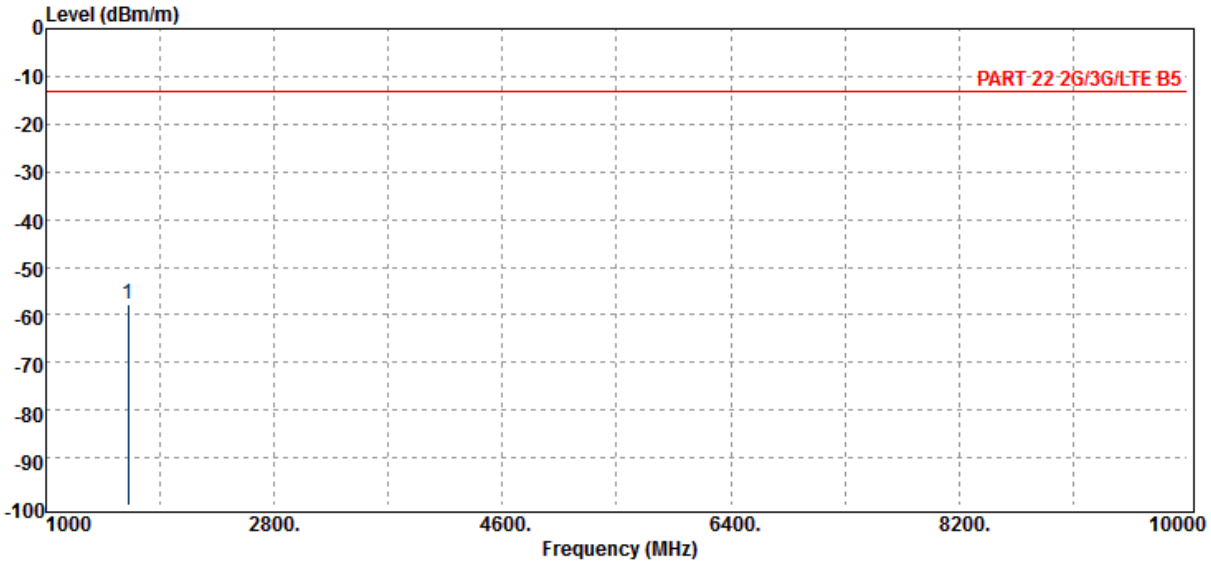
ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-57.83	-56.67	3.05	-4.21	-13.00	-44.83

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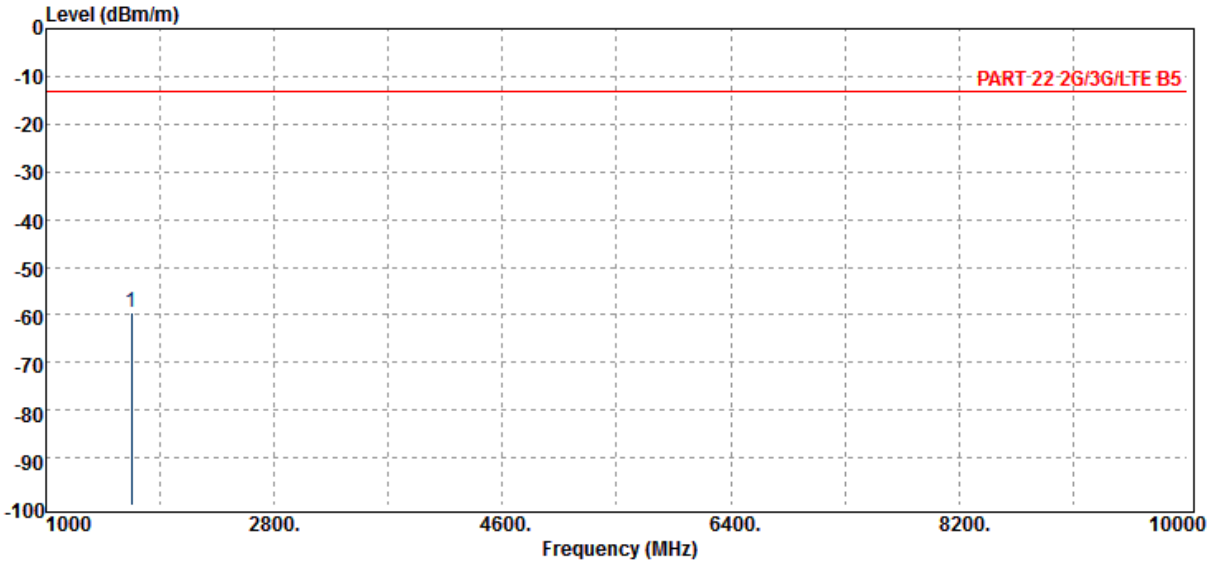
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-59.42	-58.17	3.01	-4.26	-13.00	-46.42

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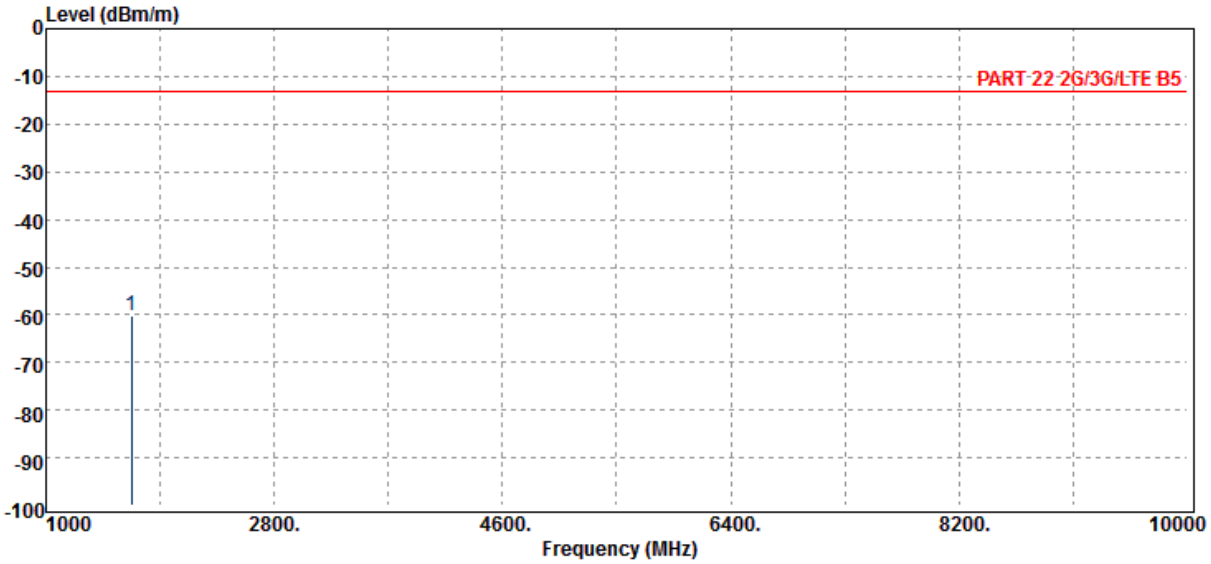
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-60.14	-58.89	3.01	-4.26	-13.00	-47.14

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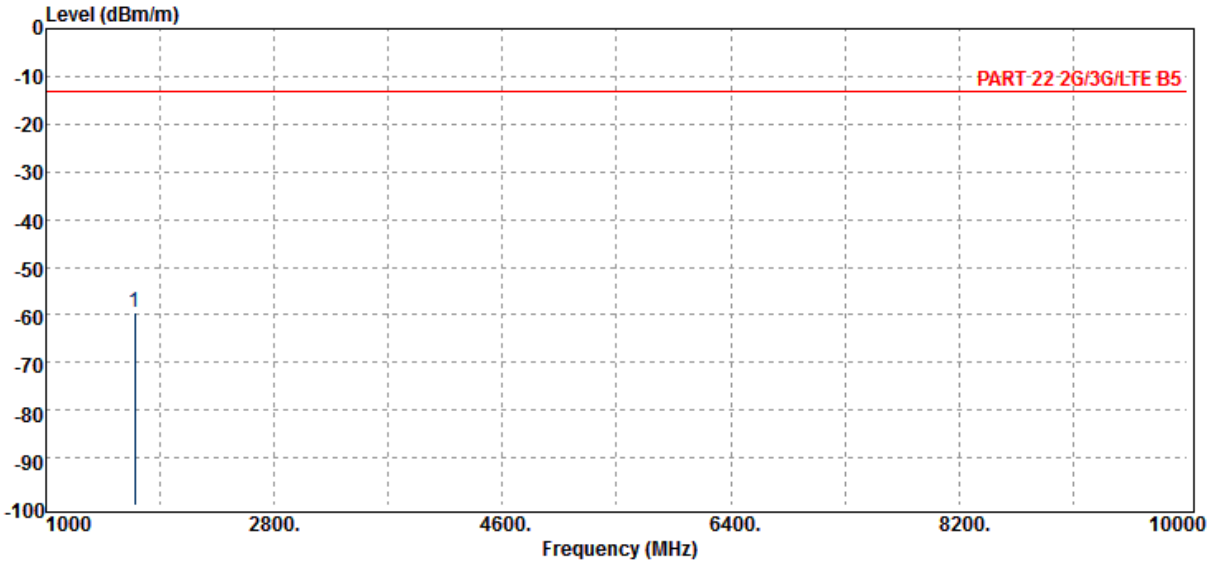
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-59.66	-58.34	2.96	-4.28	-13.00	-46.66

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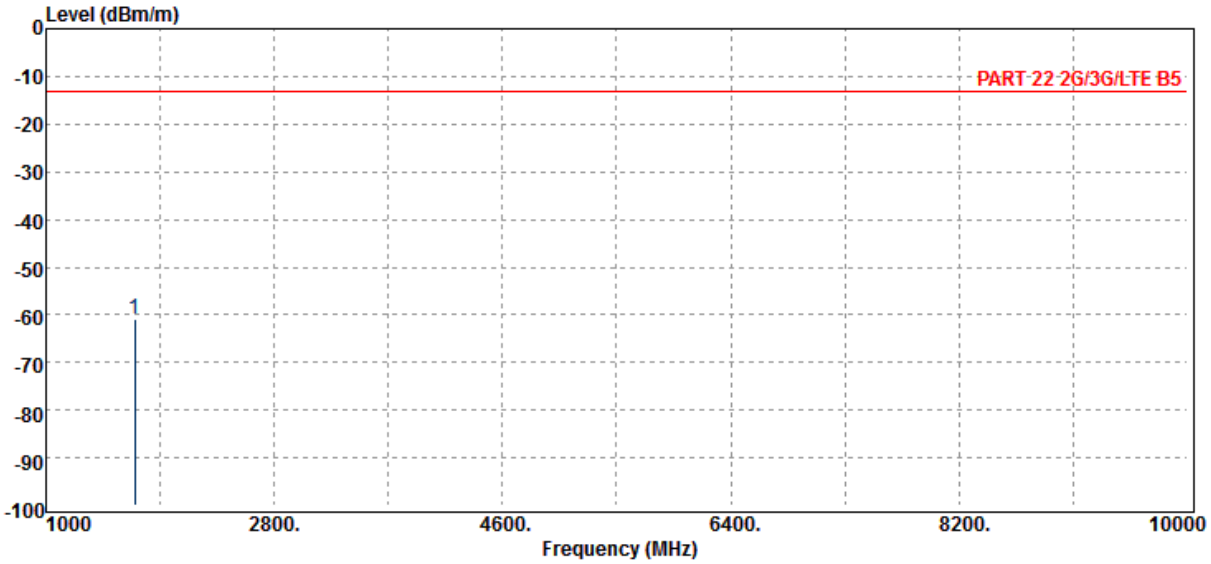
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-61.01	-59.69	2.96	-4.28	-13.00	-48.01

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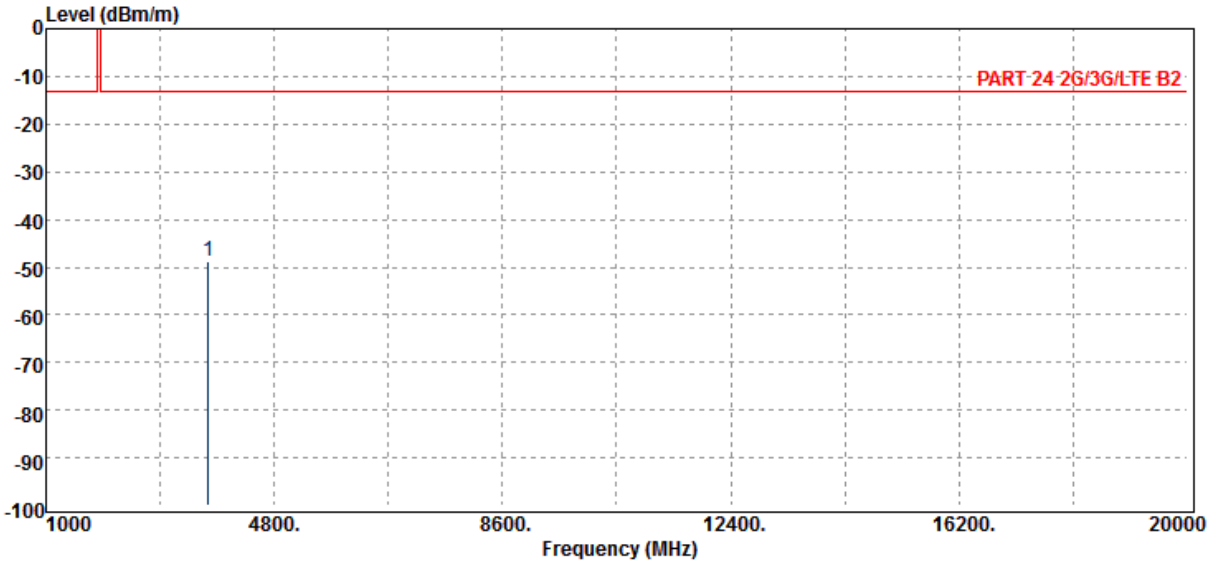
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-48.67	-50.21	8.43	-6.88	-13.00	-35.67

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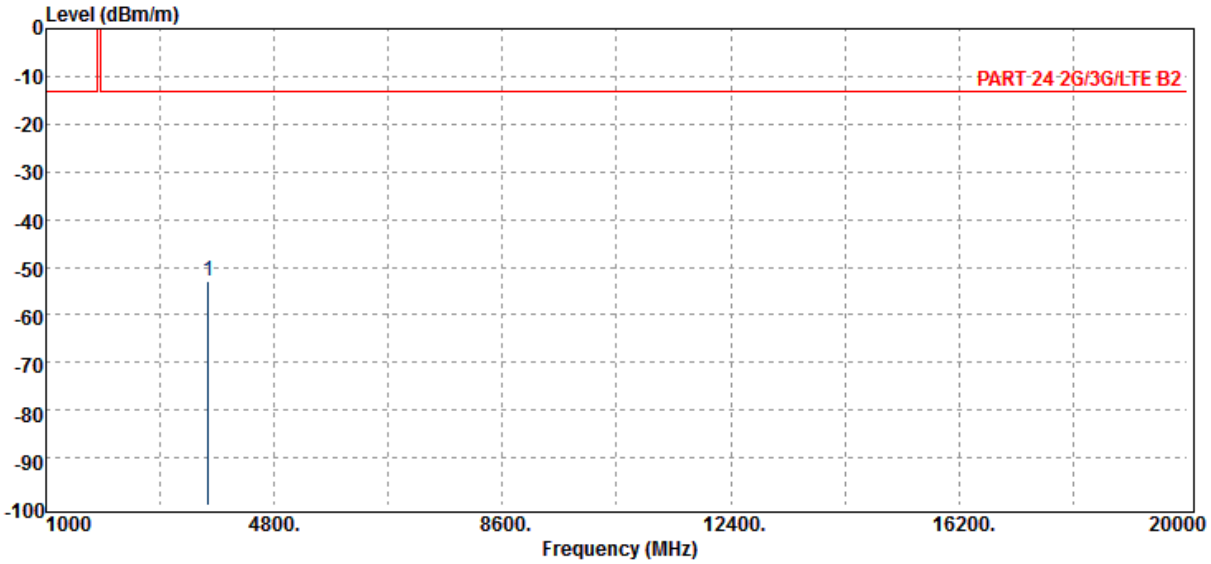
ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-53.11	-54.65	8.43	-6.88	-13.00	-40.11

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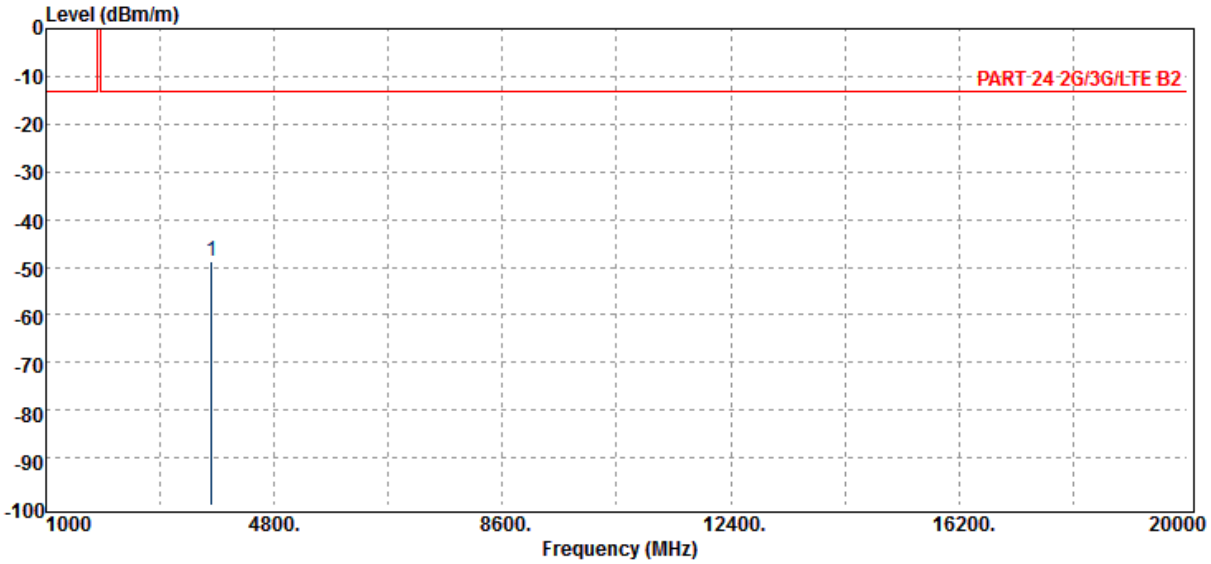
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-48.74	-50.18	8.46	-7.02	-13.00	-35.74

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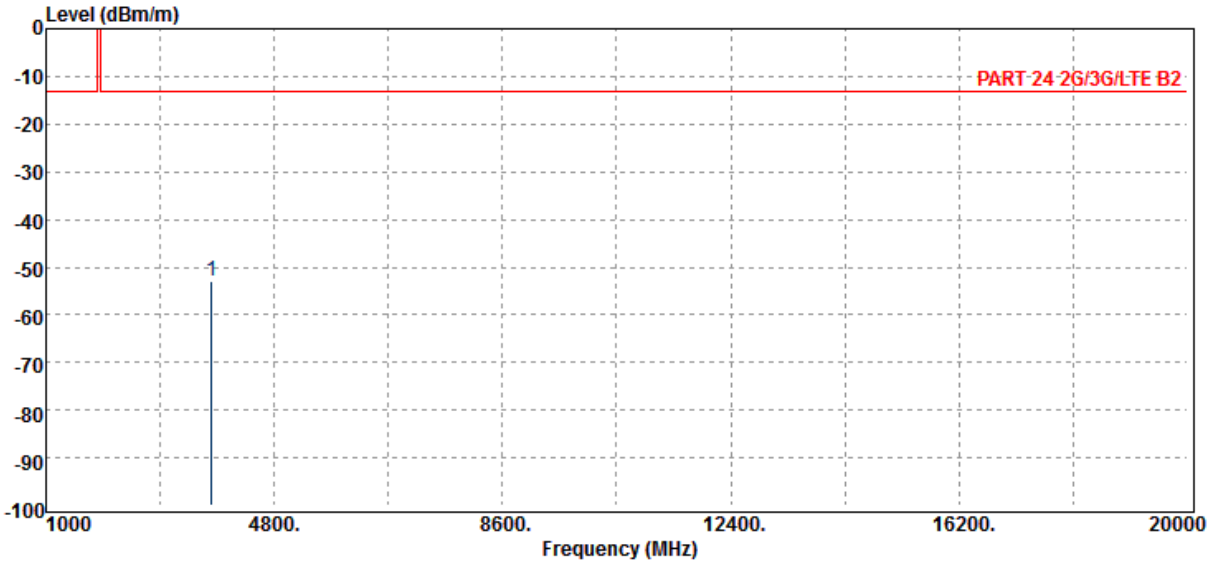
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-52.84	-54.28	8.46	-7.02	-13.00	-39.84

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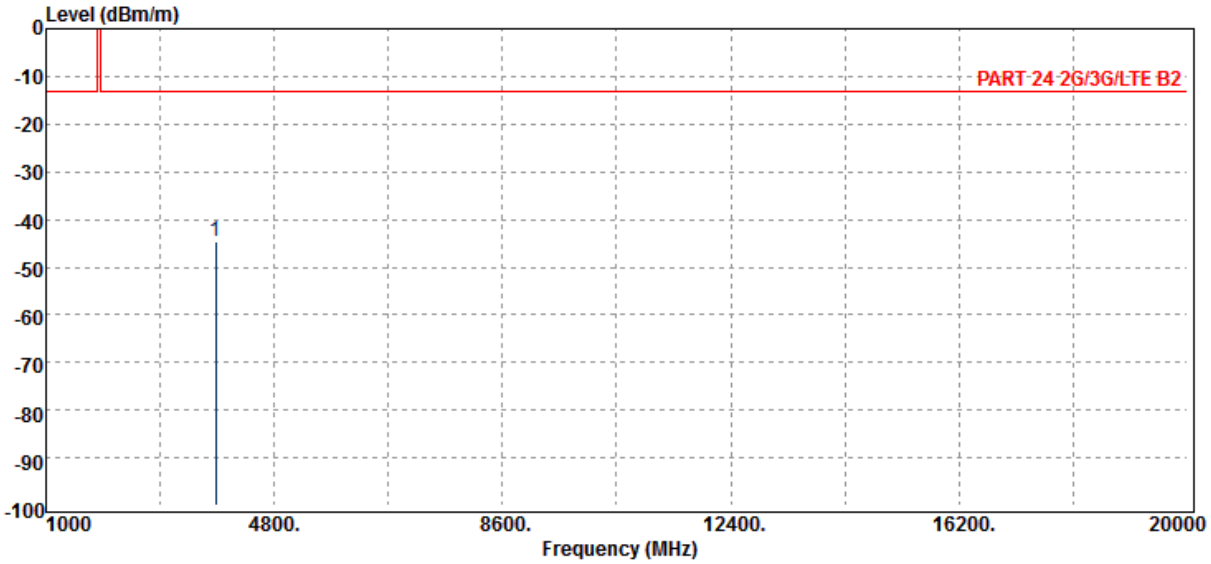
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-44.54	-45.98	8.50	-7.05	-13.00	-31.54

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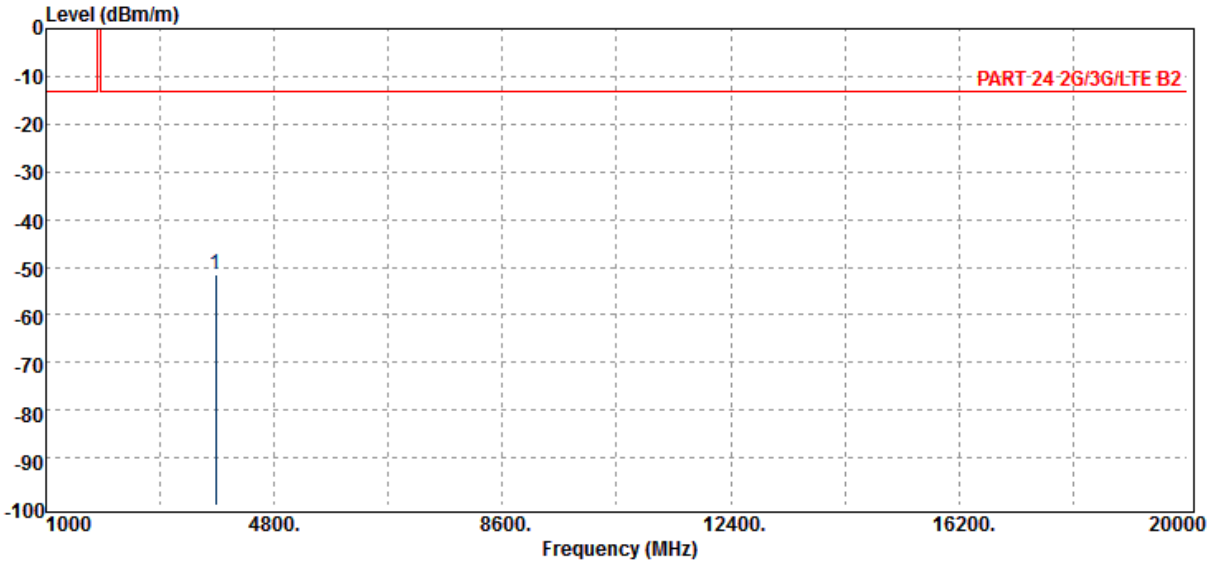
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-51.64	-53.09	8.50	-7.05	-13.00	-38.64

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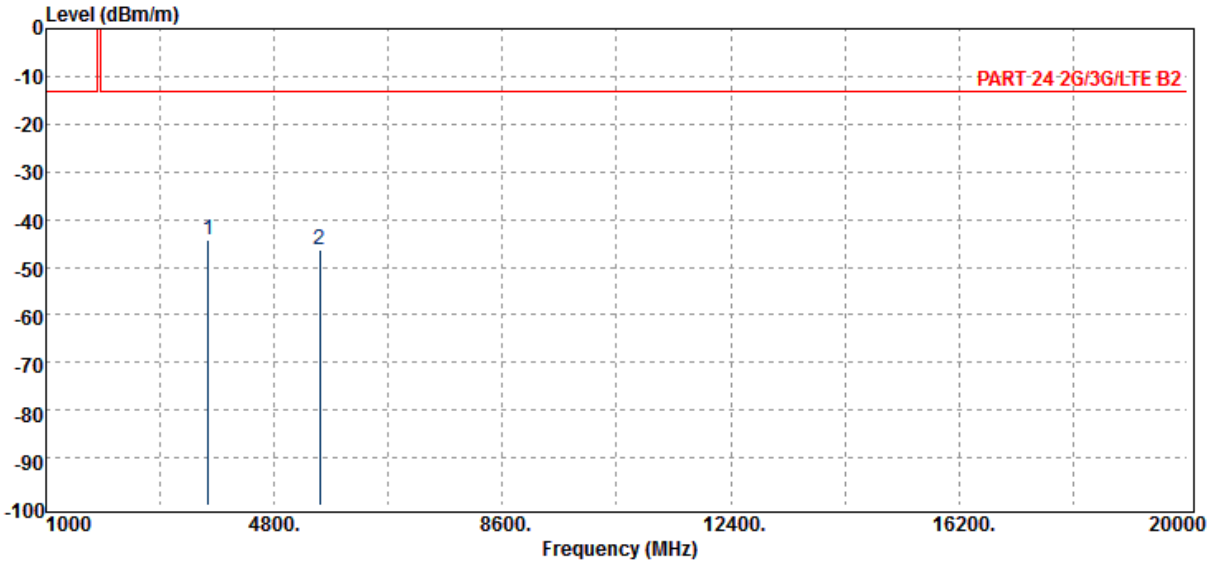
Radiated Spurious Emission Measurement Result: HSDPA II Mode

ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-44.21	-45.75	8.43	-6.89	-13.00	-31.21
5557.20	H	-46.27	-47.84	10.10	-8.54	-13.00	-33.27

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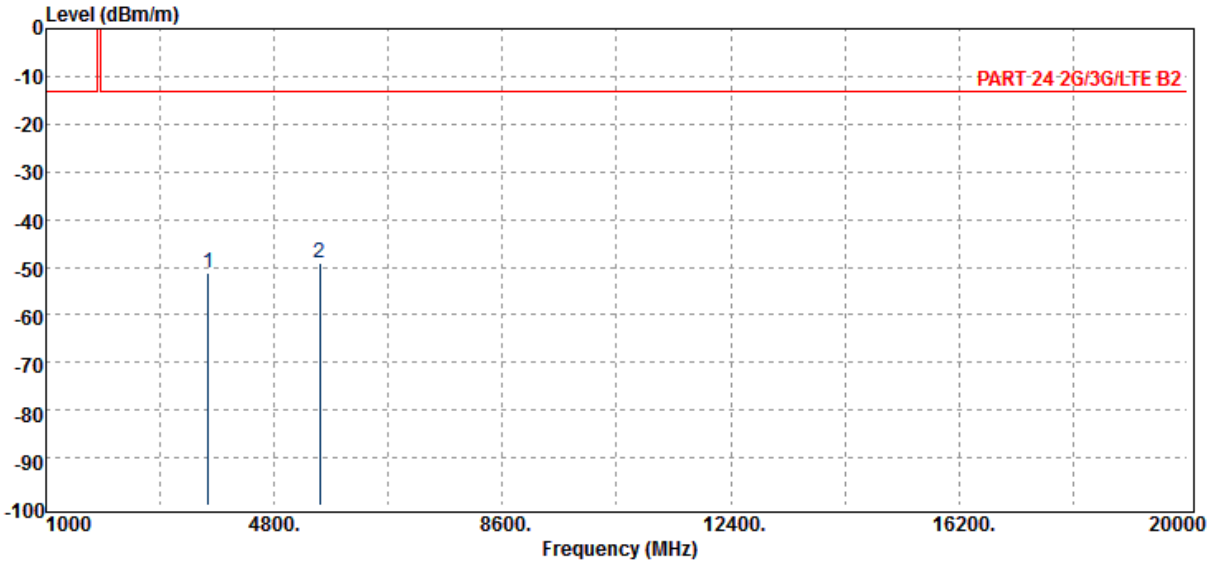
ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-51.25	-52.78	8.43	-6.89	-13.00	-38.25
5557.20	H	-48.98	-50.54	10.10	-8.54	-13.00	-35.98

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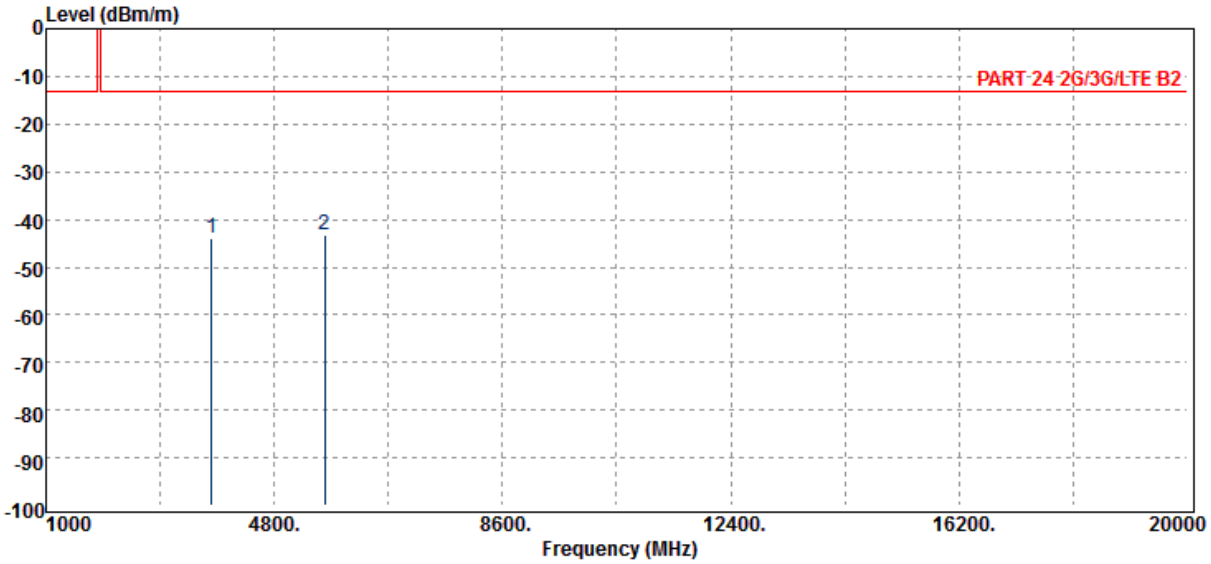
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-43.81	-45.25	8.46	-7.02	-13.00	-30.81
5640.00	H	-43.17	-44.69	10.11	-8.59	-13.00	-30.17

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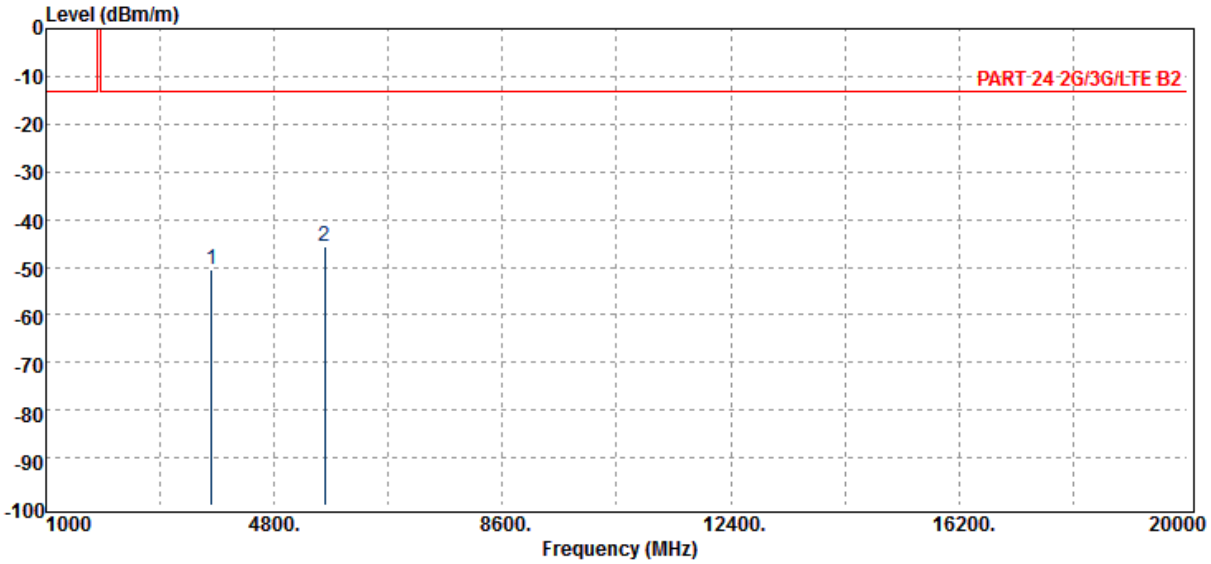
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-50.49	-51.93	8.46	-7.02	-13.00	-37.49
5640.00	H	-45.62	-47.14	10.11	-8.59	-13.00	-32.62

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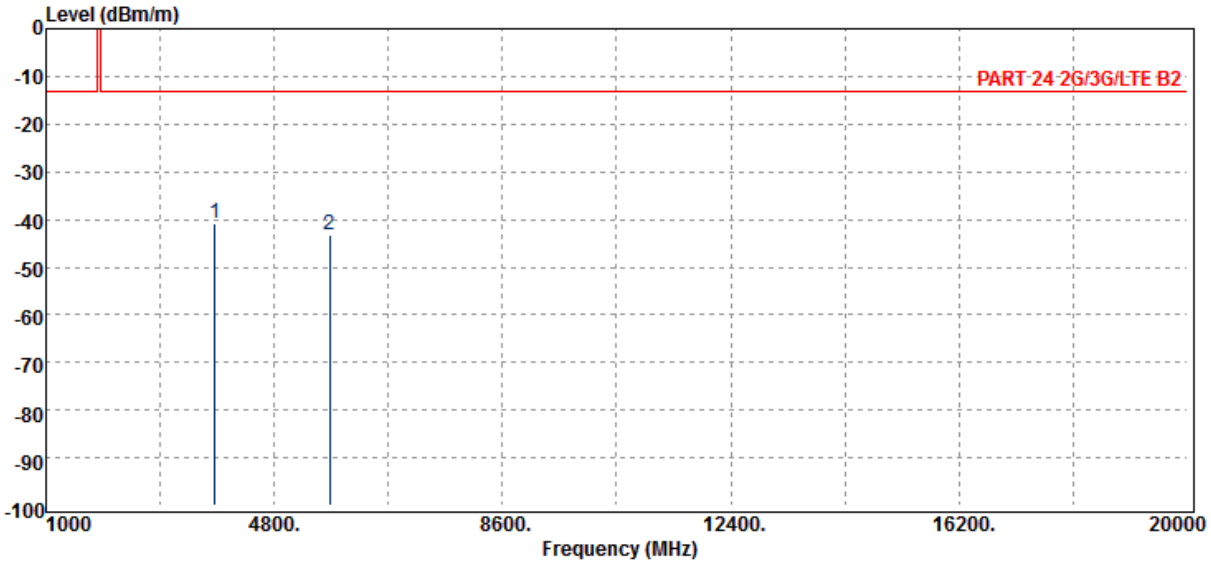
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-40.95	-42.39	8.49	-7.05	-13.00	-27.95
5722.80	H	-43.36	-44.86	10.12	-8.63	-13.00	-30.36

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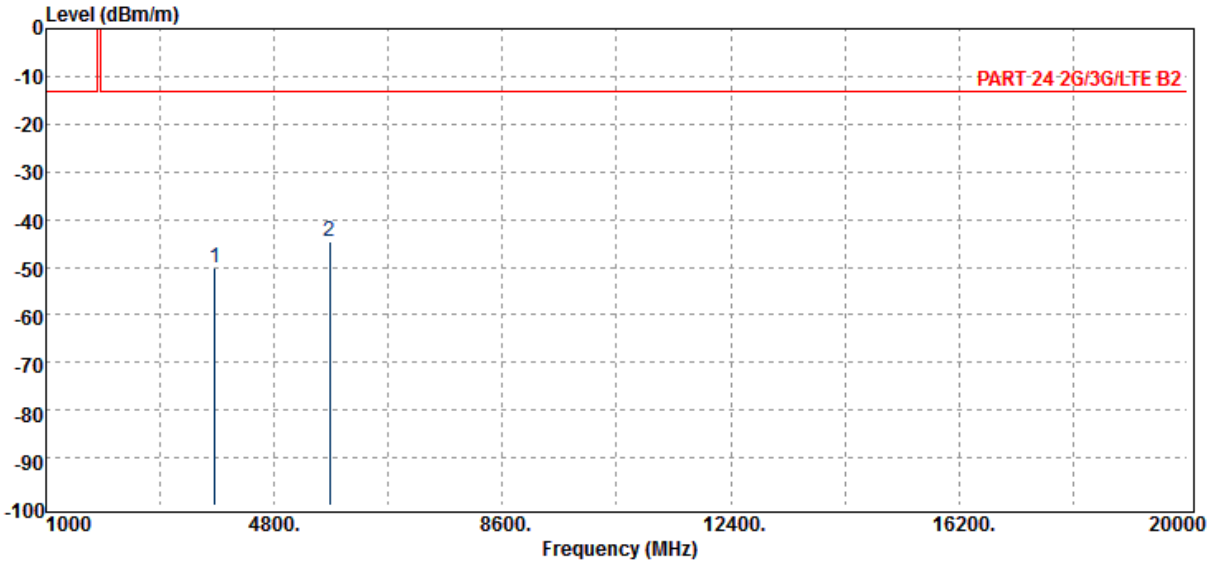
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-50.20	-51.65	8.49	-7.05	-13.00	-37.20
5722.80	H	-44.69	-46.19	10.12	-8.63	-13.00	-31.69

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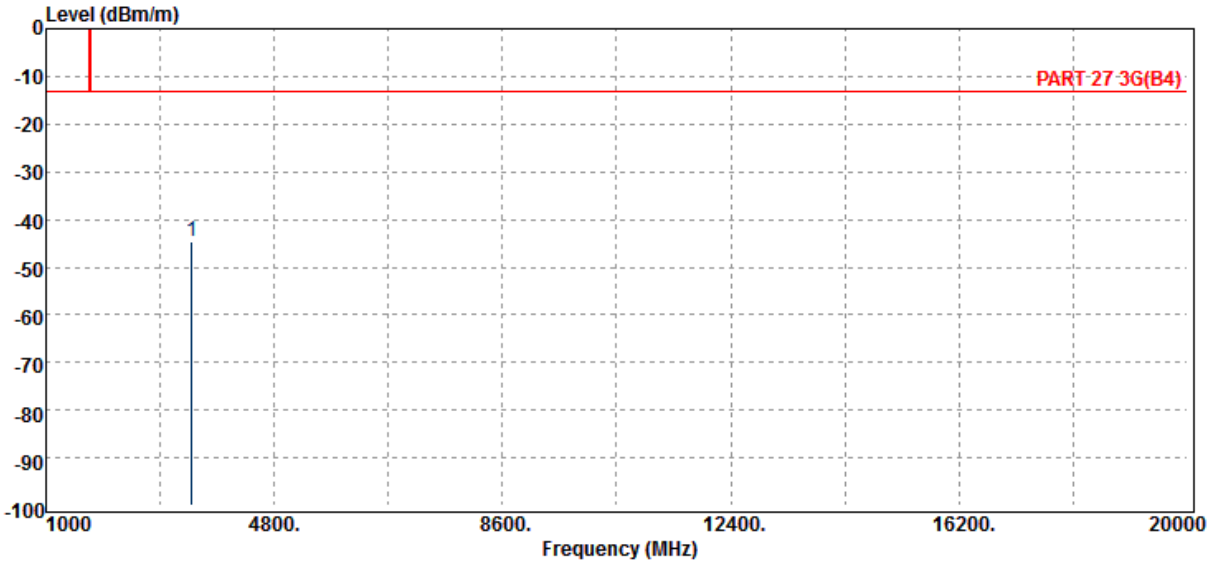
Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-44.75	-46.29	8.09	-6.54	-13.00	-31.75

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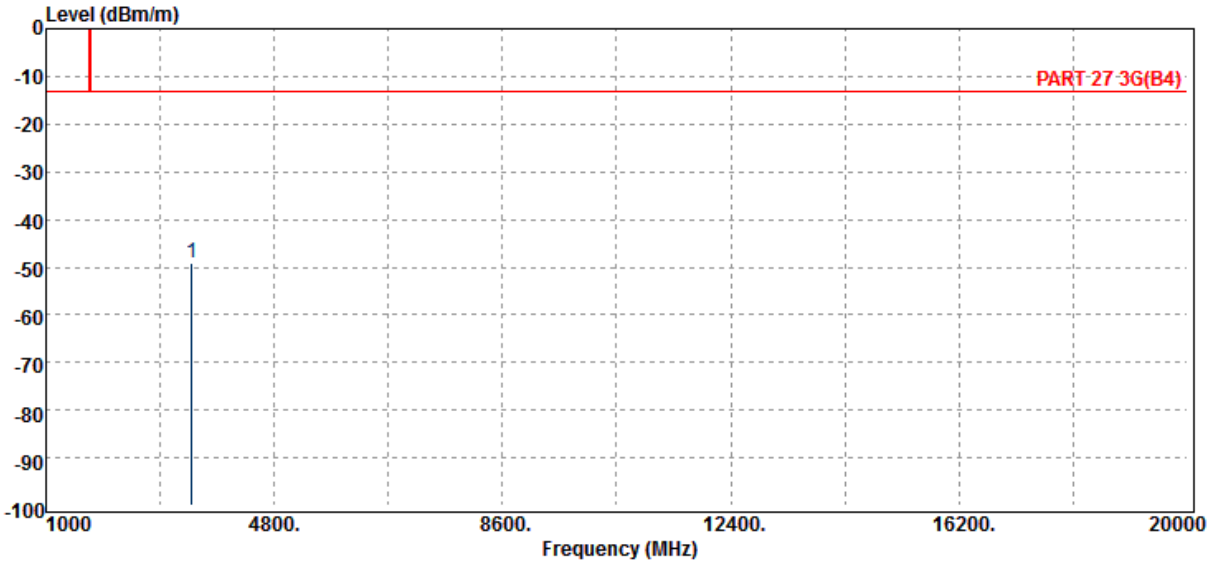
ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-49.08	-50.62	8.09	-6.54	-13.00	-36.08

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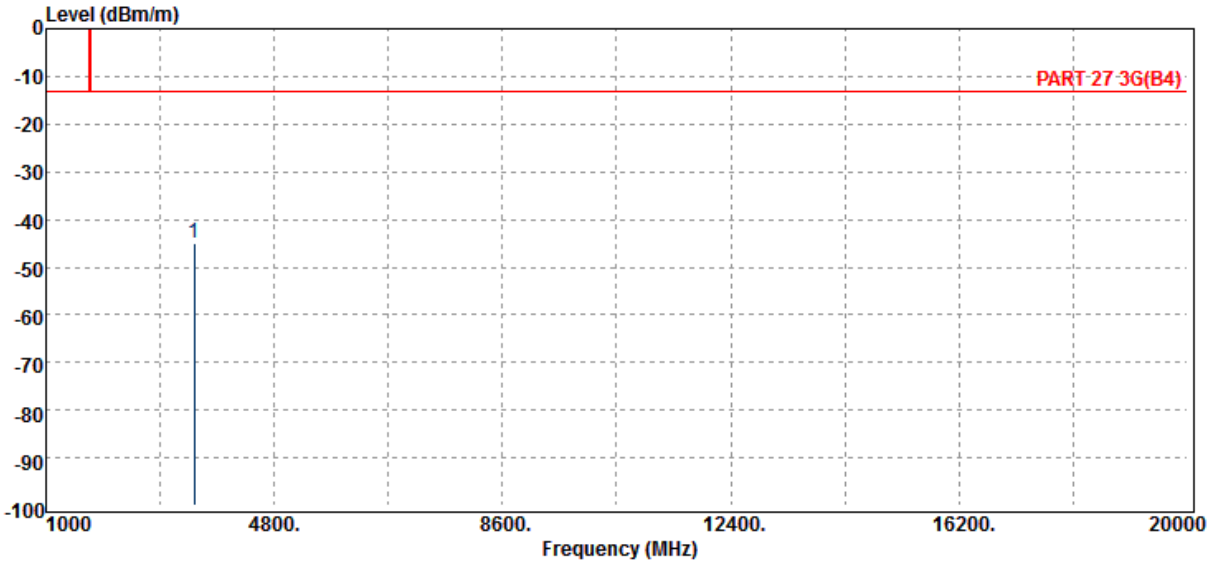
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-44.89	-46.56	8.20	-6.53	-13.00	-31.89

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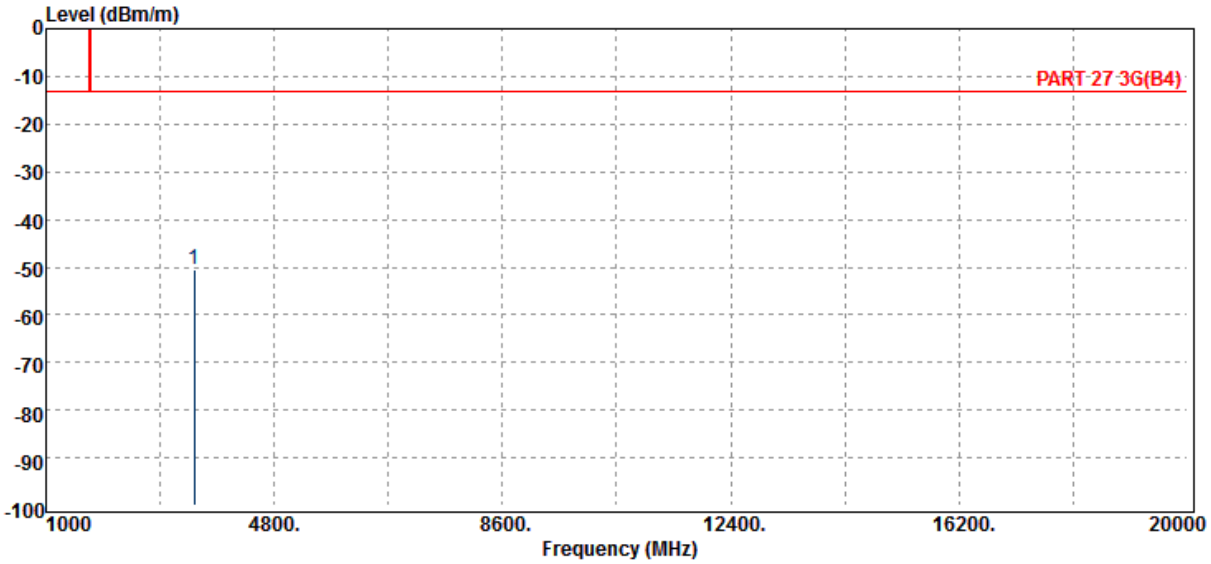
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-50.65	-52.32	8.20	-6.53	-13.00	-37.65

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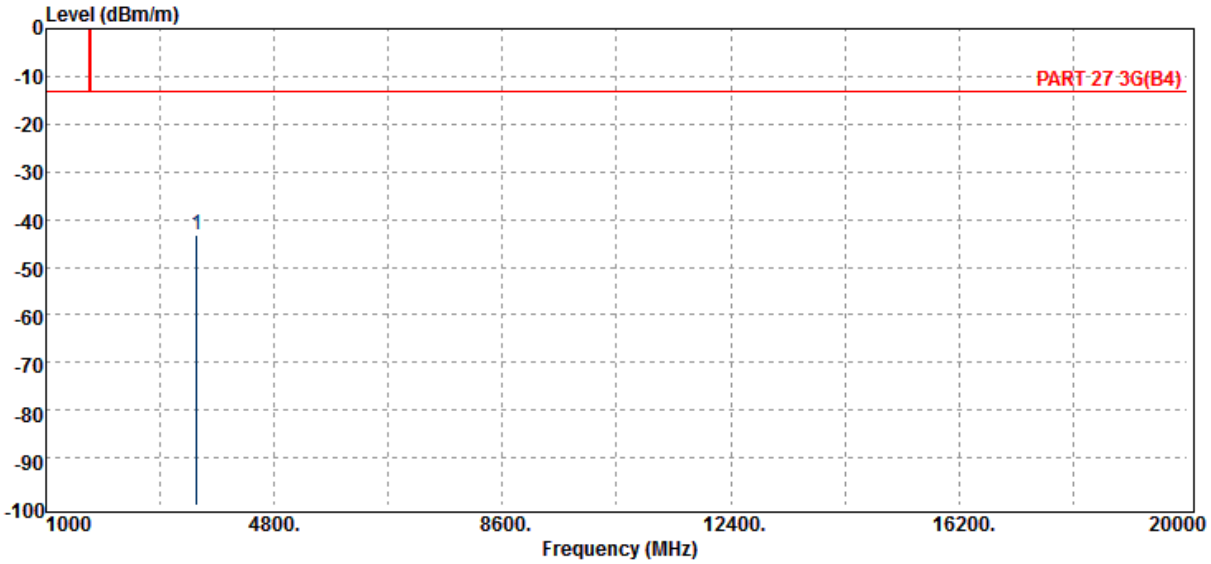
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-43.34	-44.96	8.30	-6.68	-13.00	-30.34

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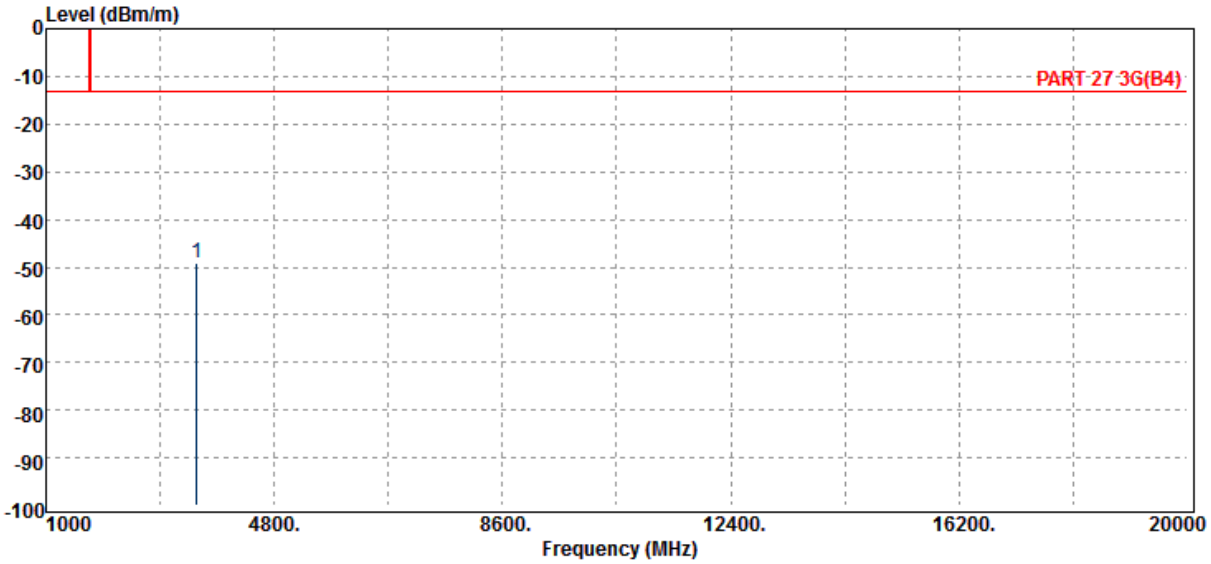
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-49.10	-50.73	8.30	-6.68	-13.00	-36.10

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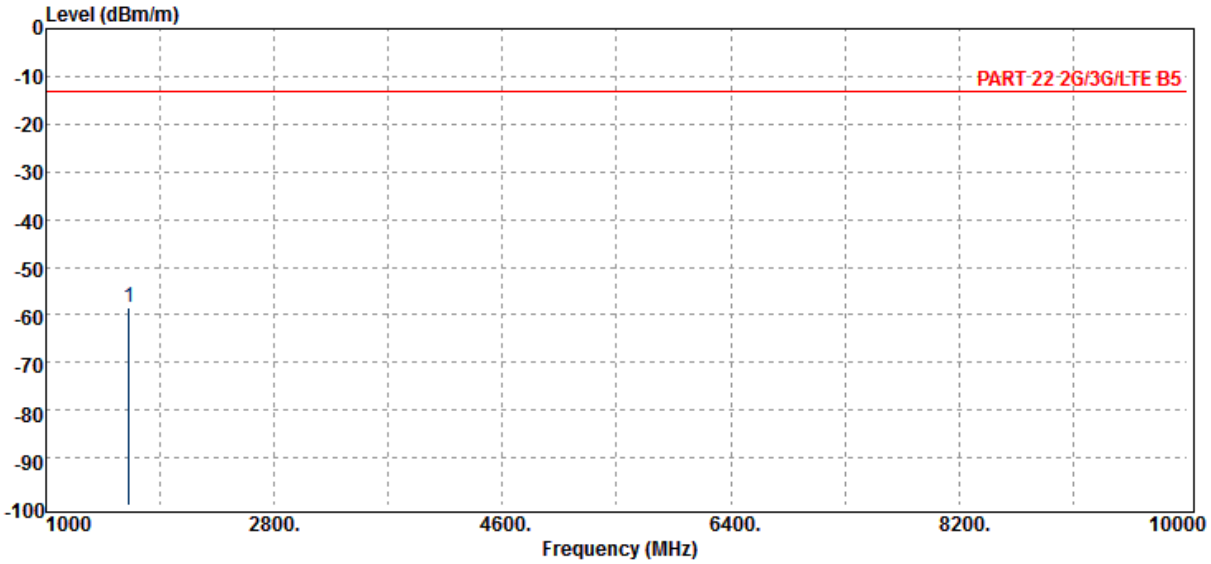
Radiated Spurious Emission Measurement Result: HSDPA V Mode

ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-58.44	-57.26	3.05	-4.22	-13.00	-45.44

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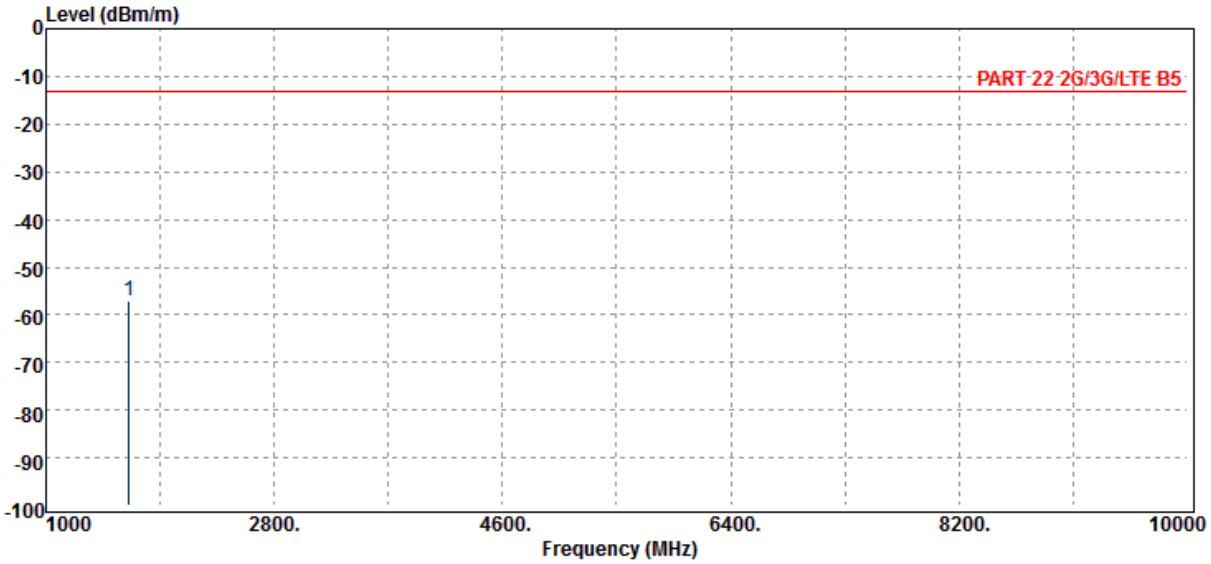
ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-57.21	-56.03	3.05	-4.22	-13.00	-44.21

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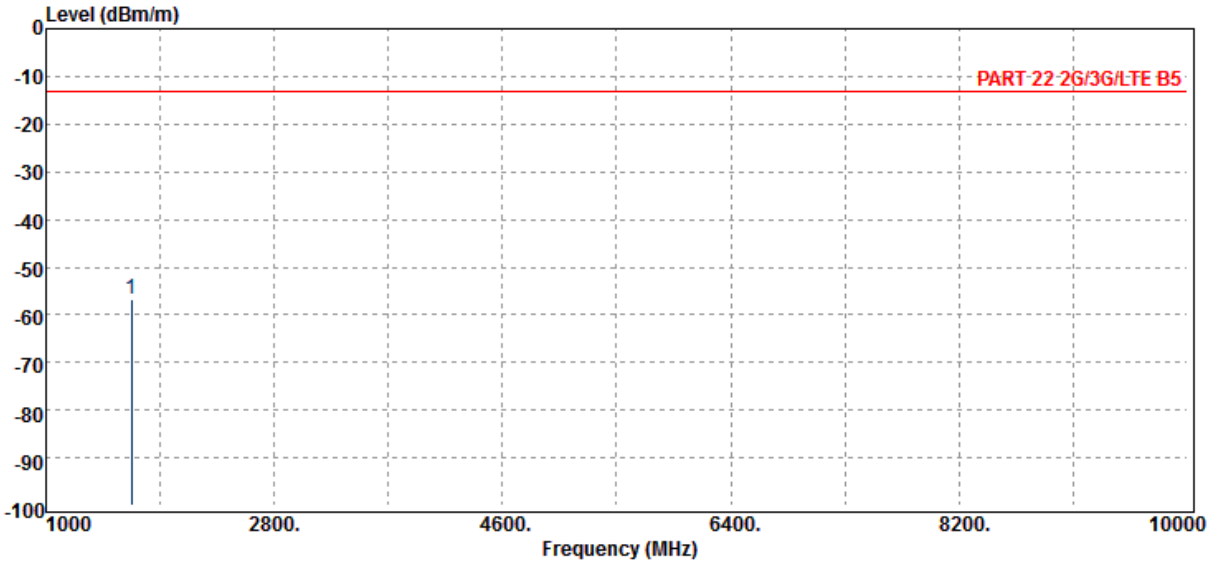
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-56.88	-55.63	3.01	-4.26	-13.00	-43.88

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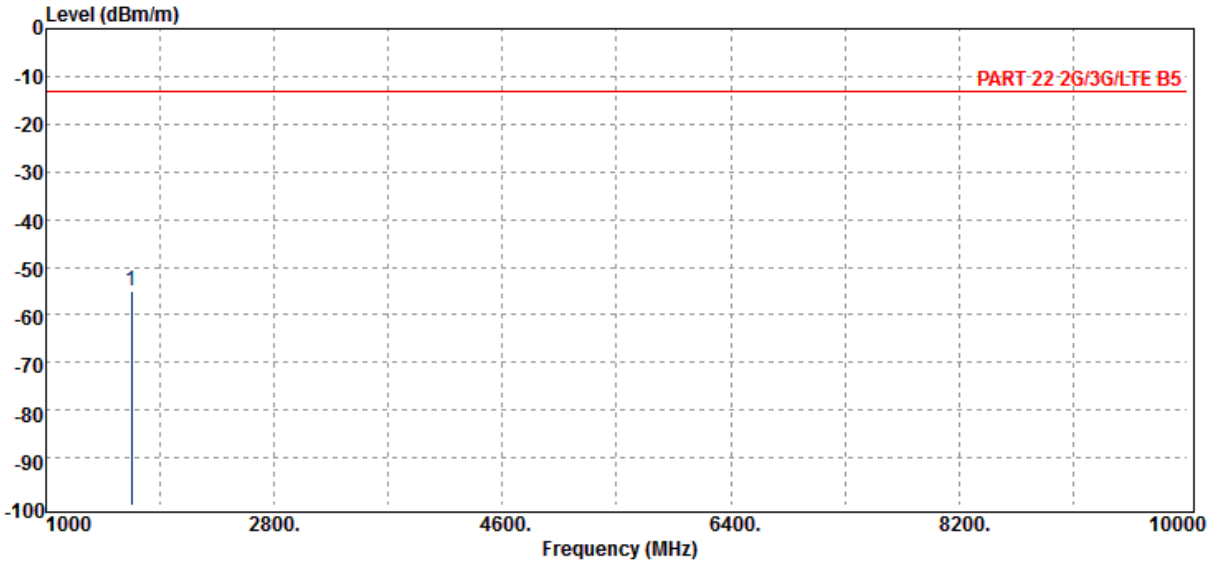
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-54.92	-53.67	3.01	-4.26	-13.00	-41.92

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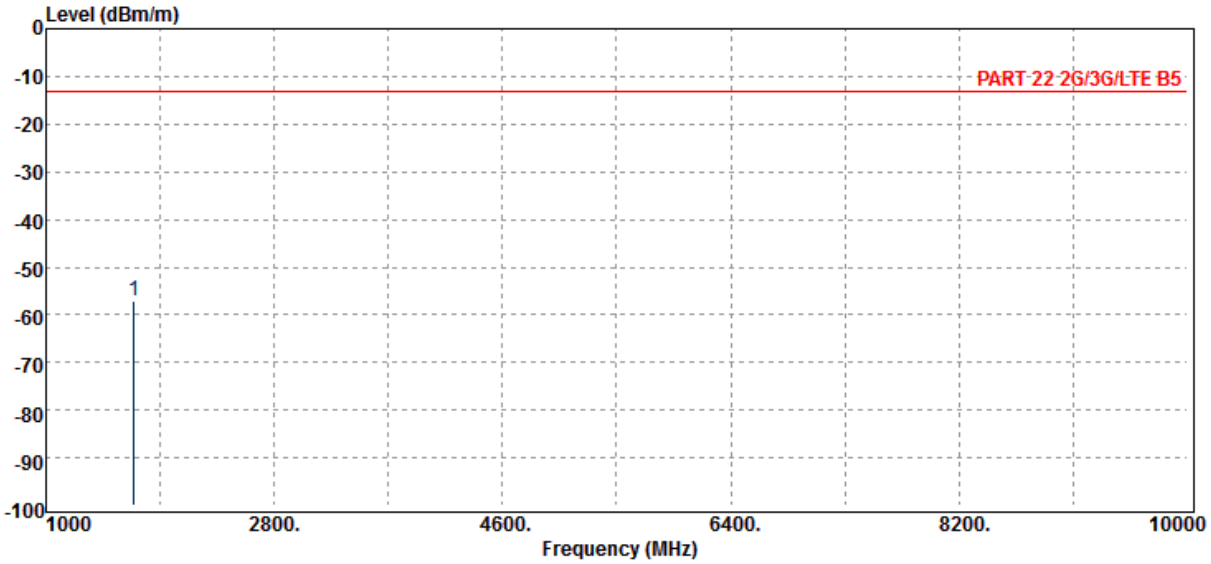
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-57.17	-55.87	2.97	-4.27	-13.00	-44.17

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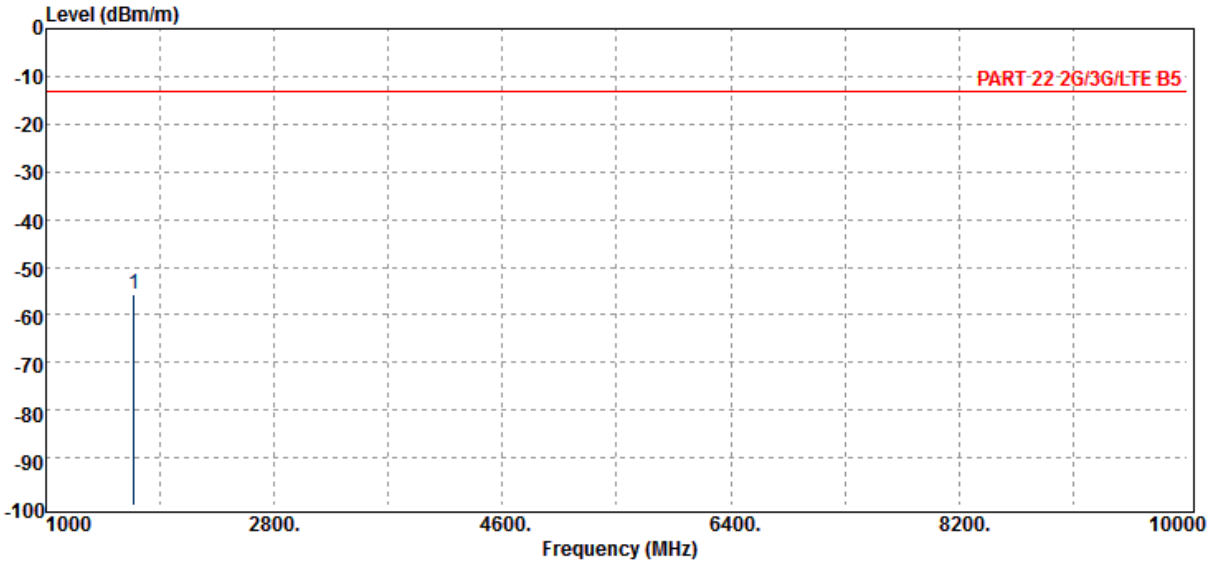
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-55.57	-54.26	2.97	-4.27	-13.00	-42.57

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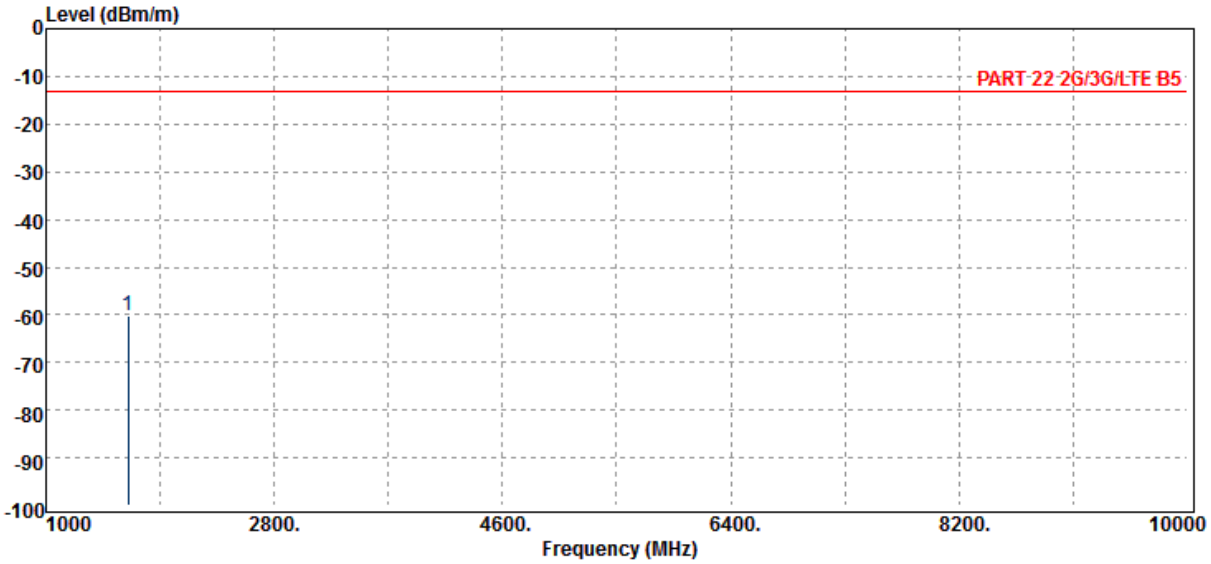
Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-60.11	-58.95	3.05	-4.21	-13.00	-47.11

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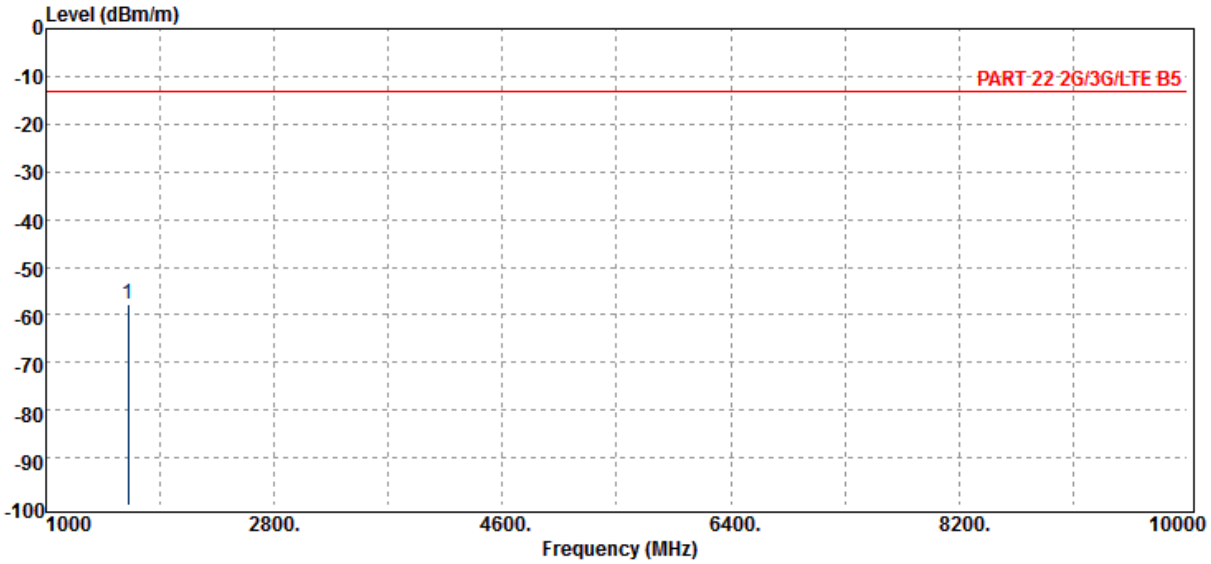
ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-57.77	-56.61	3.05	-4.21	-13.00	-44.77

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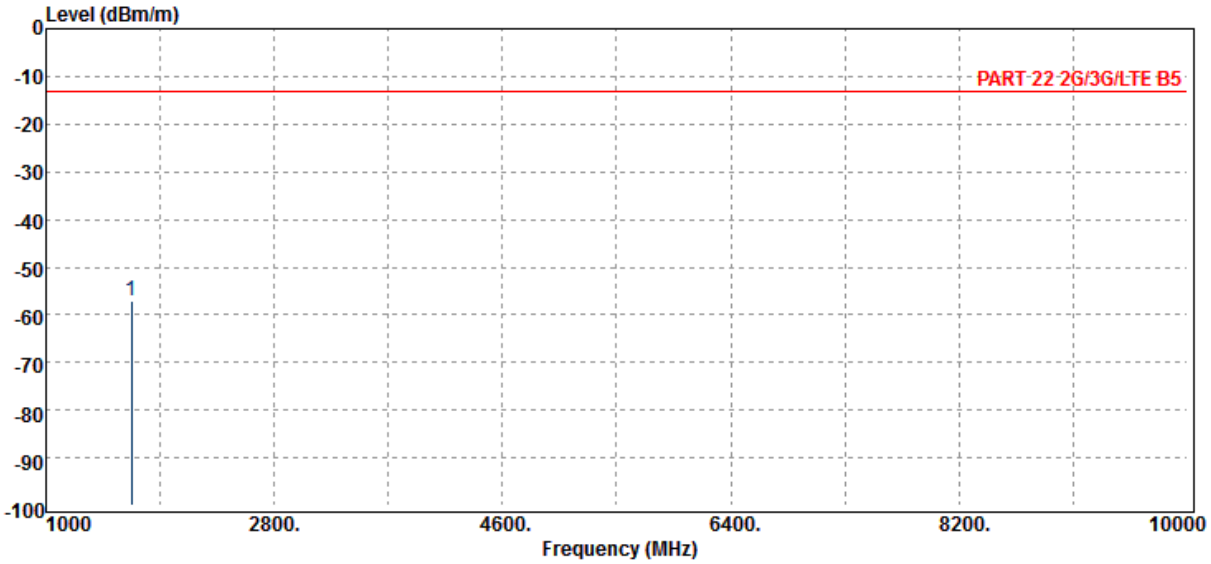
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	H	-57.13	-55.89	3.01	-4.26	-13.00	-44.13

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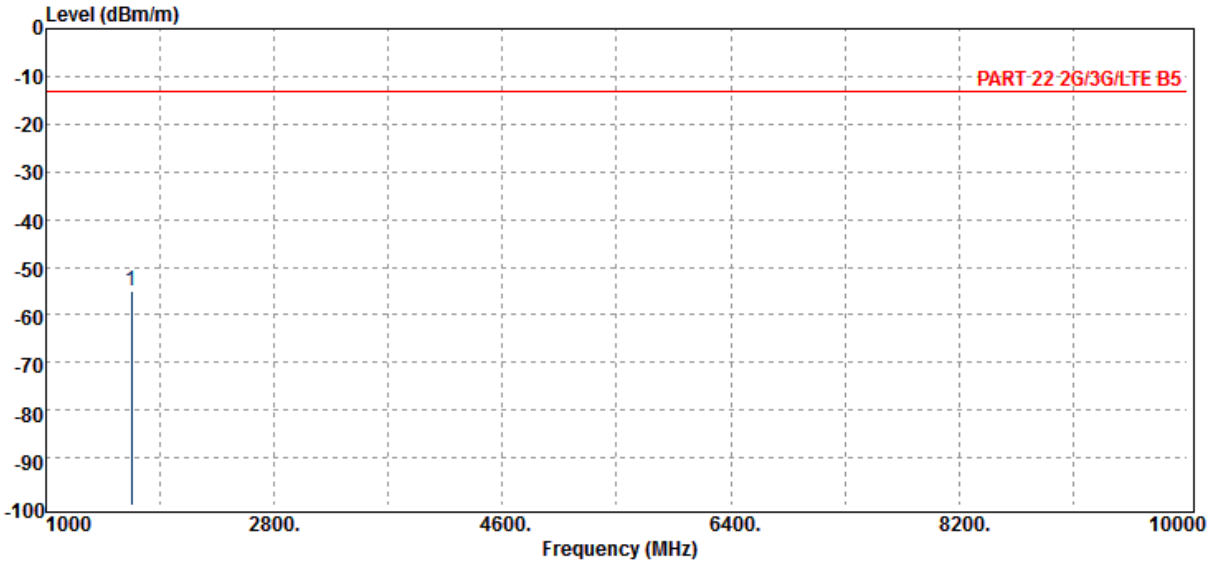
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	H	-54.91	-53.67	3.01	-4.26	-13.00	-41.91

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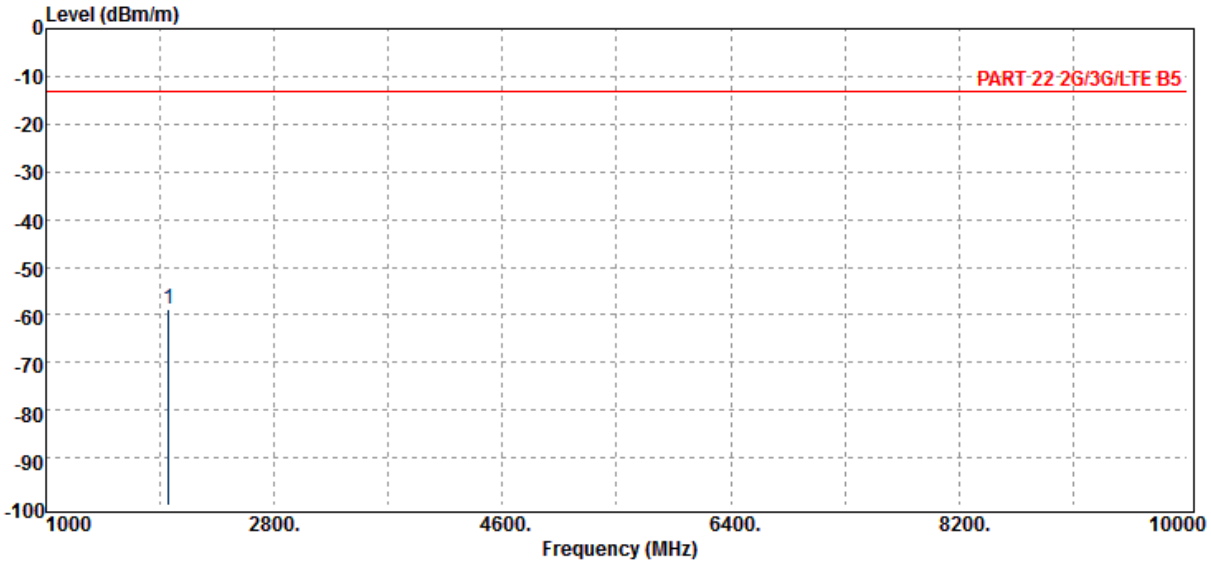
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1969.62	H	-58.81	-56.62	2.50	-4.69	-13.00	-45.81

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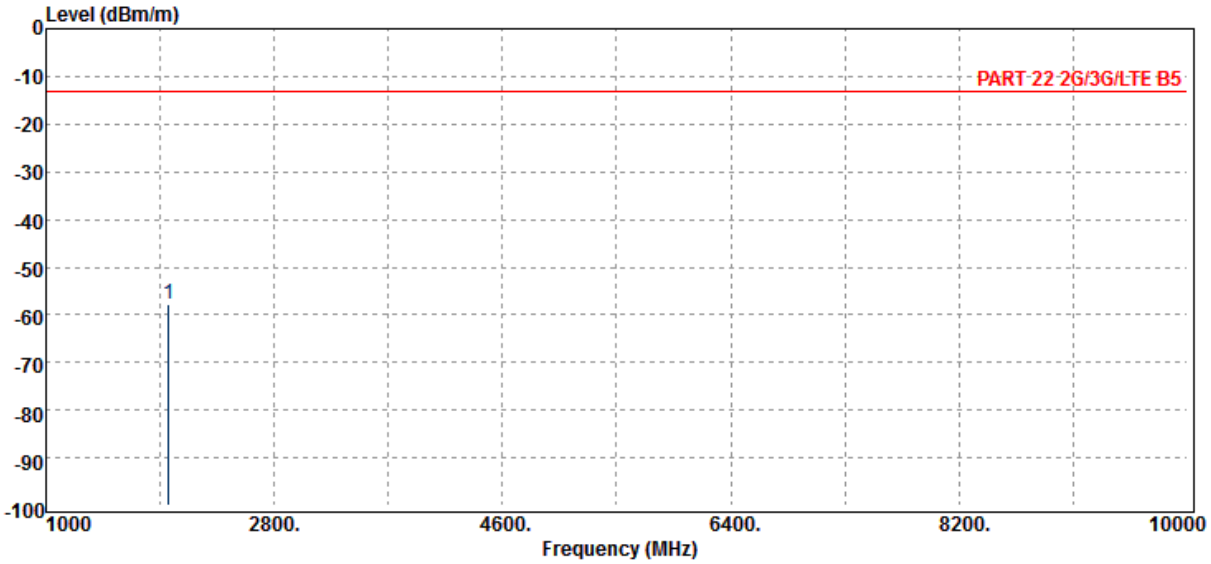
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1969.62	H	-57.87	-55.68	2.50	-4.69	-13.00	-44.87

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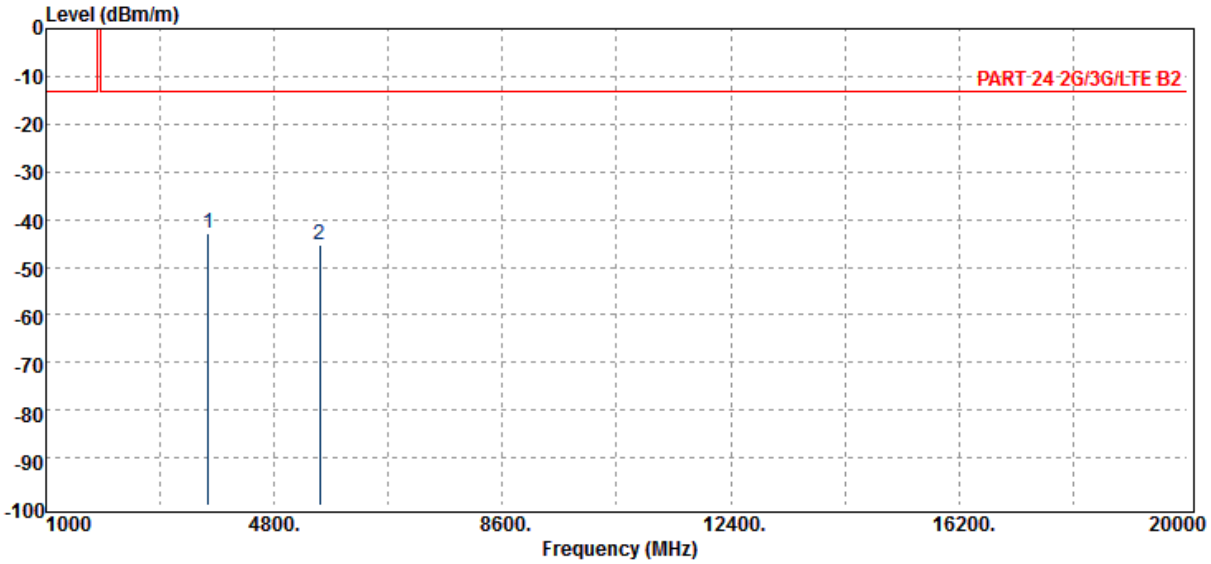
Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	H	-42.96	-44.50	8.43	-6.88	-13.00	-29.96
5553.75	H	-45.24	-46.80	10.10	-8.54	-13.00	-32.24

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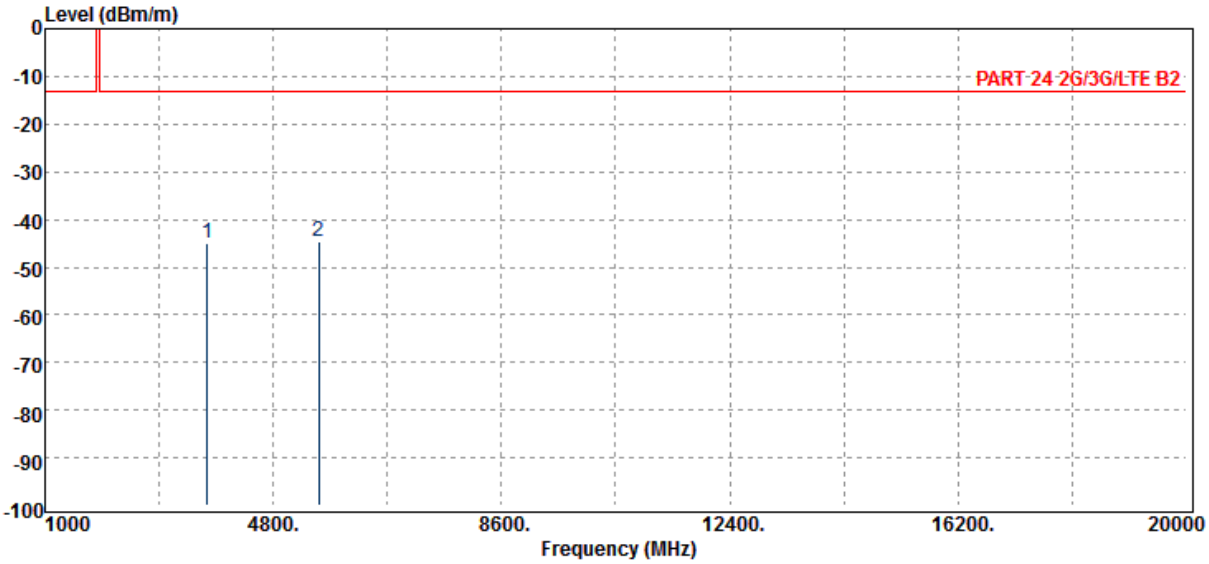
ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	H	-44.89	-46.44	8.43	-6.88	-13.00	-31.89
5553.75	H	-44.57	-46.13	10.10	-8.54	-13.00	-31.57

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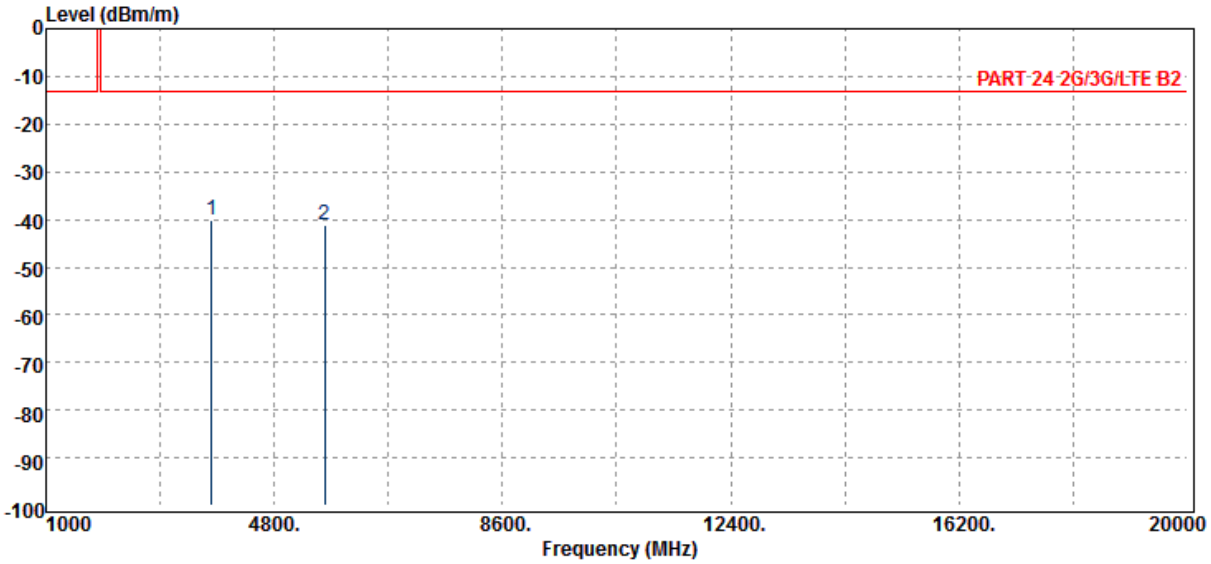
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-40.09	-41.53	8.46	-7.02	-13.00	-27.09
5640.00	H	-41.02	-42.55	10.11	-8.59	-13.00	-28.02

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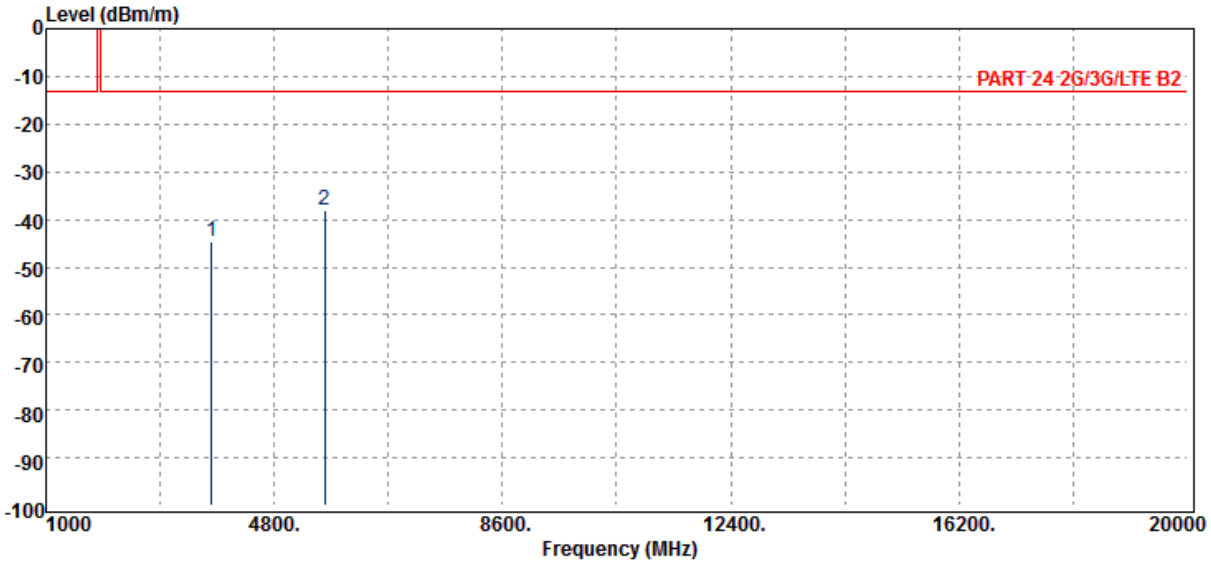
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-44.54	-45.98	8.46	-7.02	-13.00	-31.54
5640.00	H	-38.13	-39.65	10.11	-8.59	-13.00	-25.13

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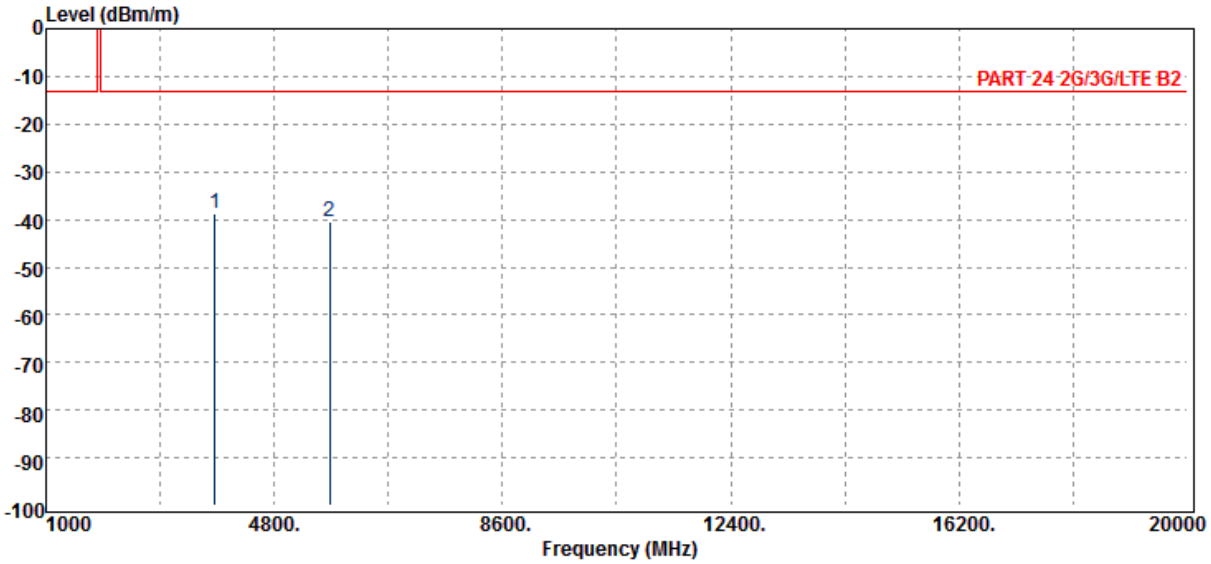
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	H	-38.84	-40.28	8.50	-7.05	-13.00	-25.84
5726.25	H	-40.44	-41.92	10.12	-8.63	-13.00	-27.44

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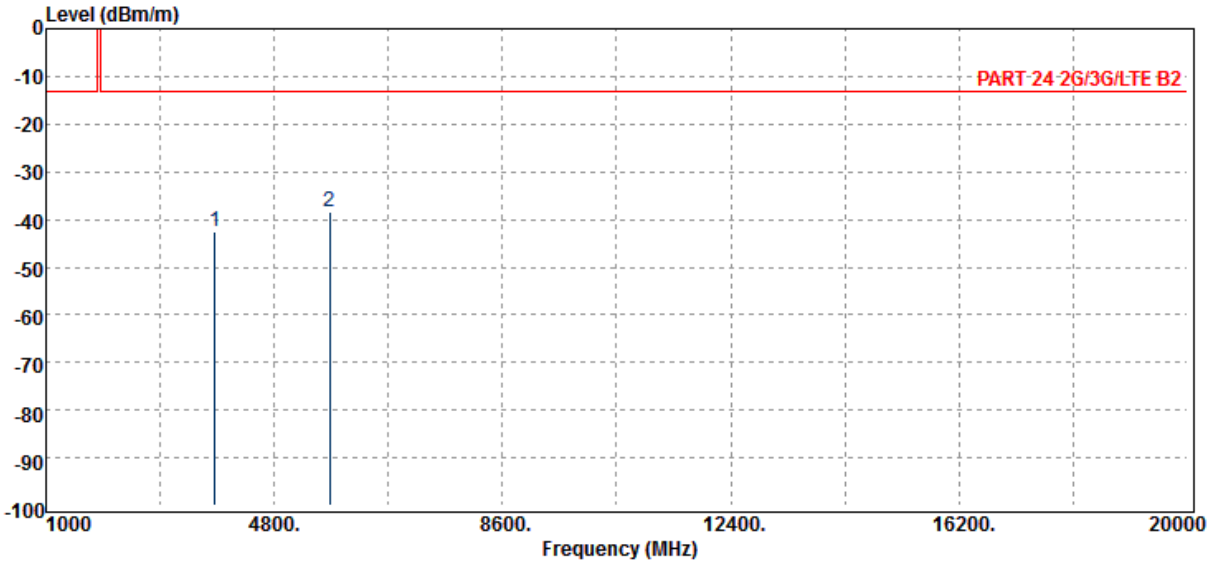
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	H	-42.68	-44.13	8.50	-7.05	-13.00	-29.68
5726.25	H	-38.39	-39.87	10.12	-8.63	-13.00	-25.39

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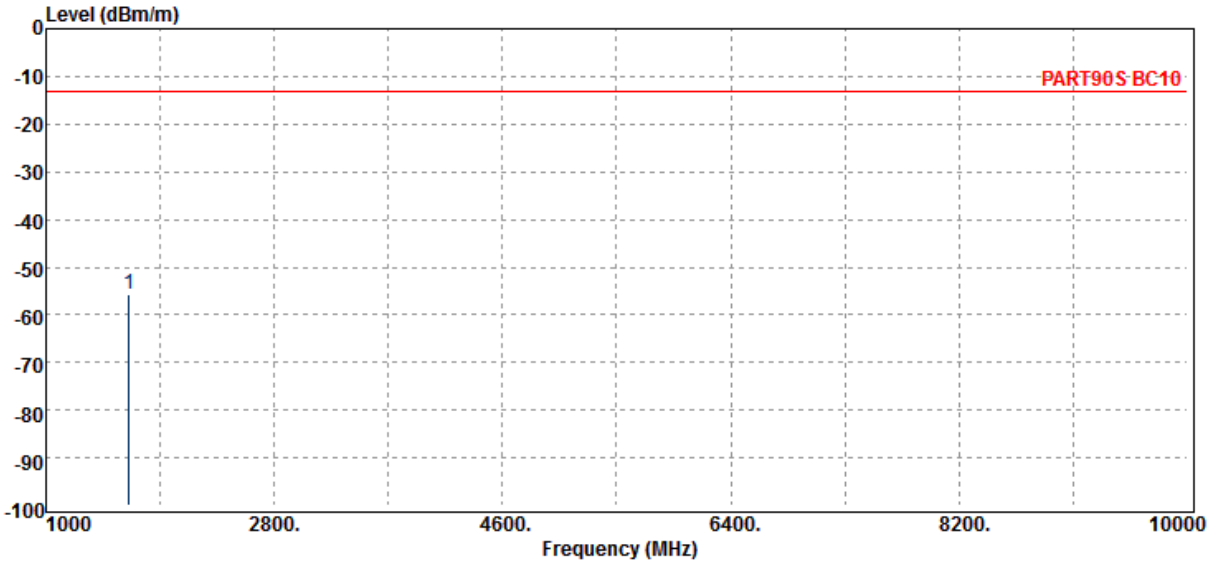
Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1653.80	H	-55.74	-54.56	3.04	-4.22	-13.00	-42.74

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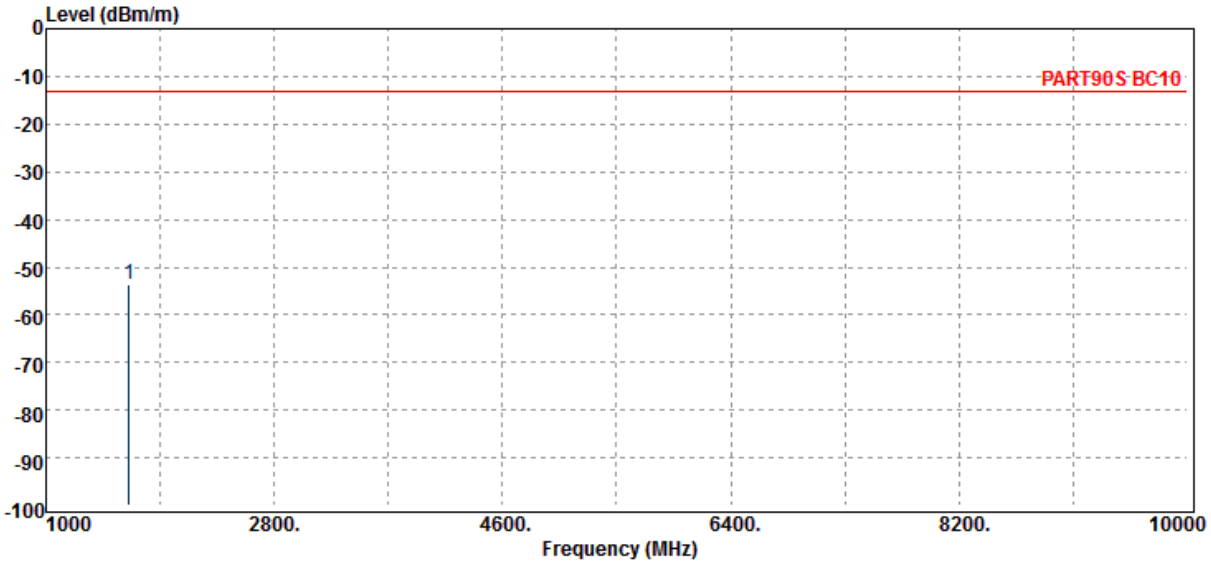
ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1653.80	H	-53.69	-52.51	3.04	-4.22	-13.00	-40.69

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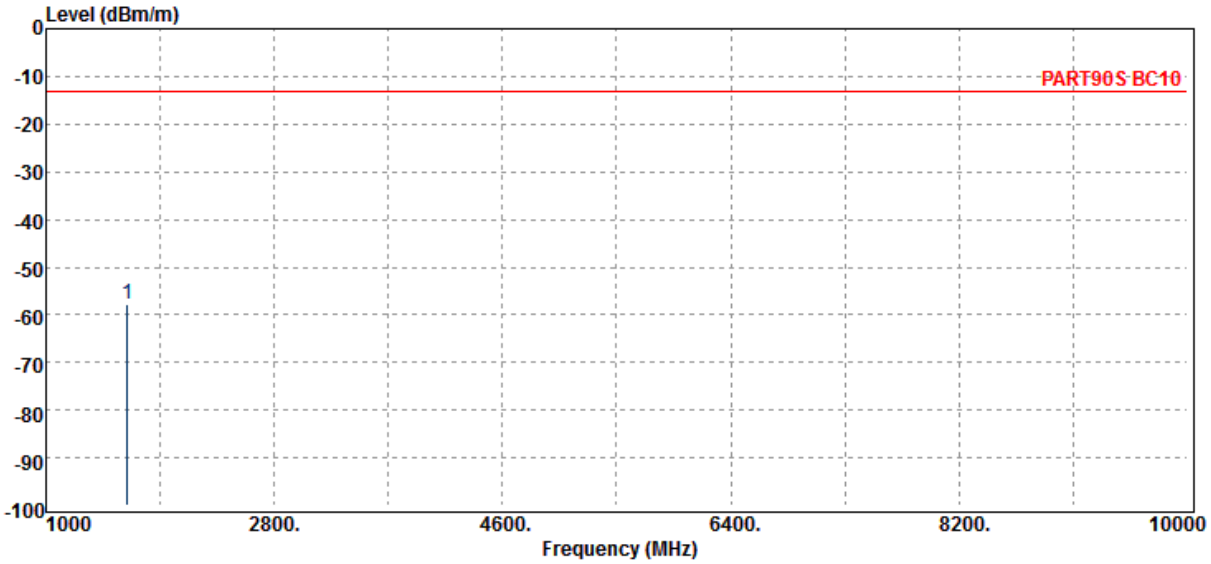
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-57.87	-56.74	3.07	-4.20	-13.00	-44.87

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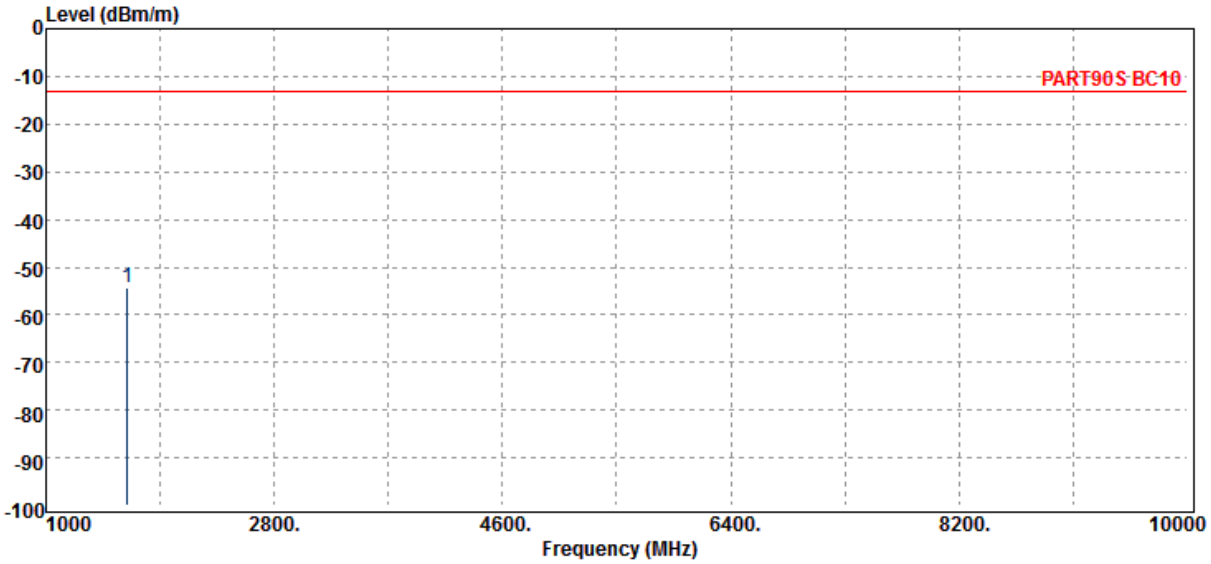
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-54.25	-53.12	3.07	-4.20	-13.00	-41.25

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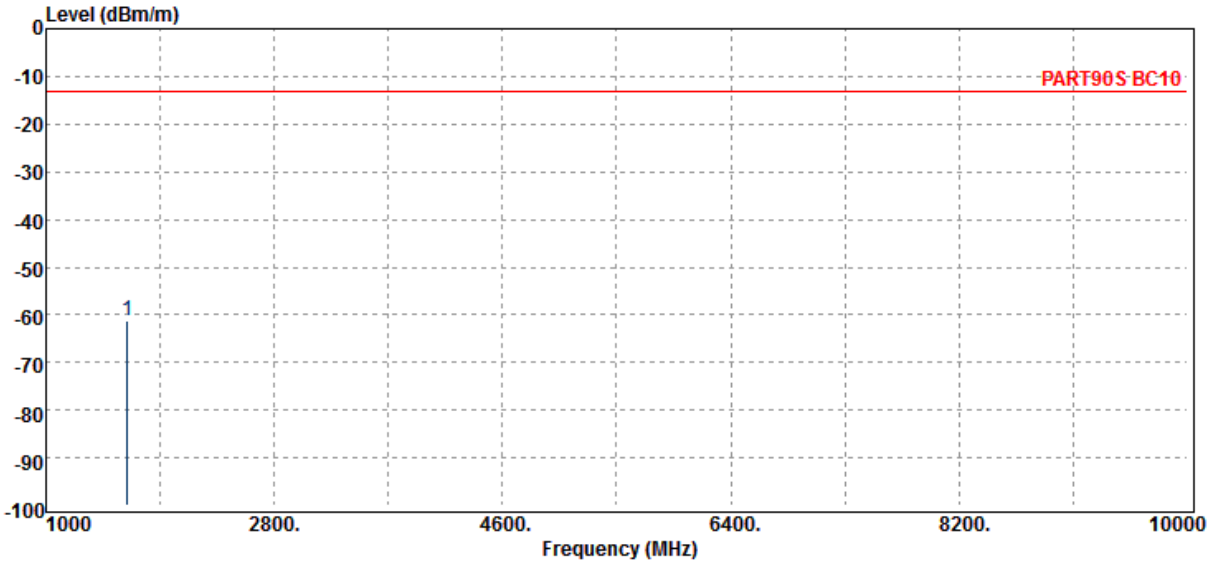
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1642.20	H	-61.37	-60.24	3.07	-4.20	-13.00	-48.37

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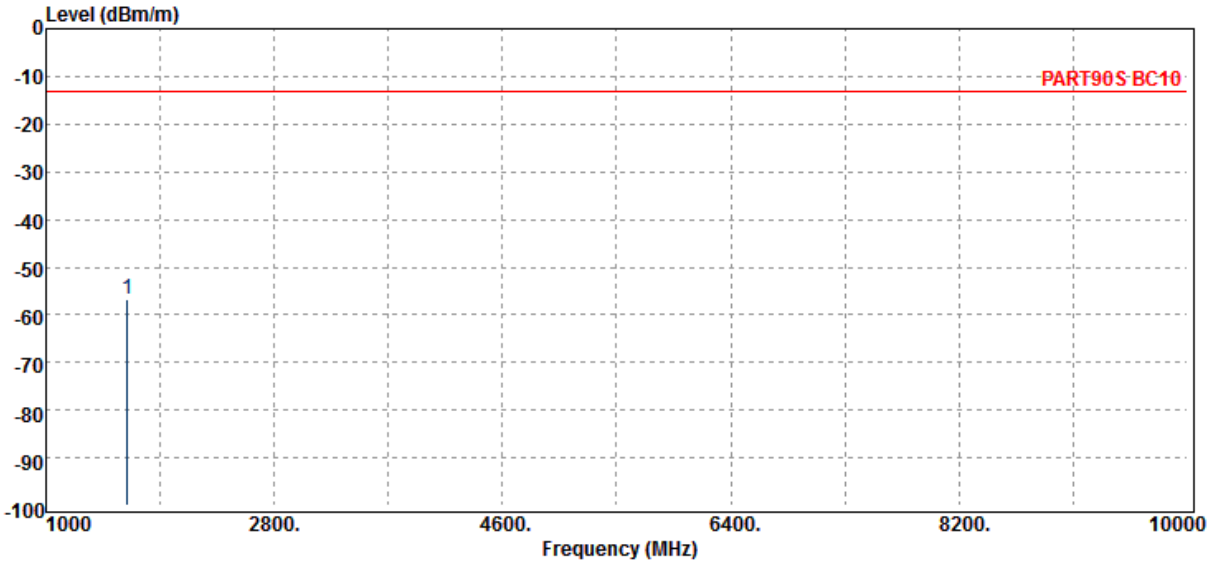
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1642.20	H	-56.88	-55.75	3.07	-4.20	-13.00	-43.88

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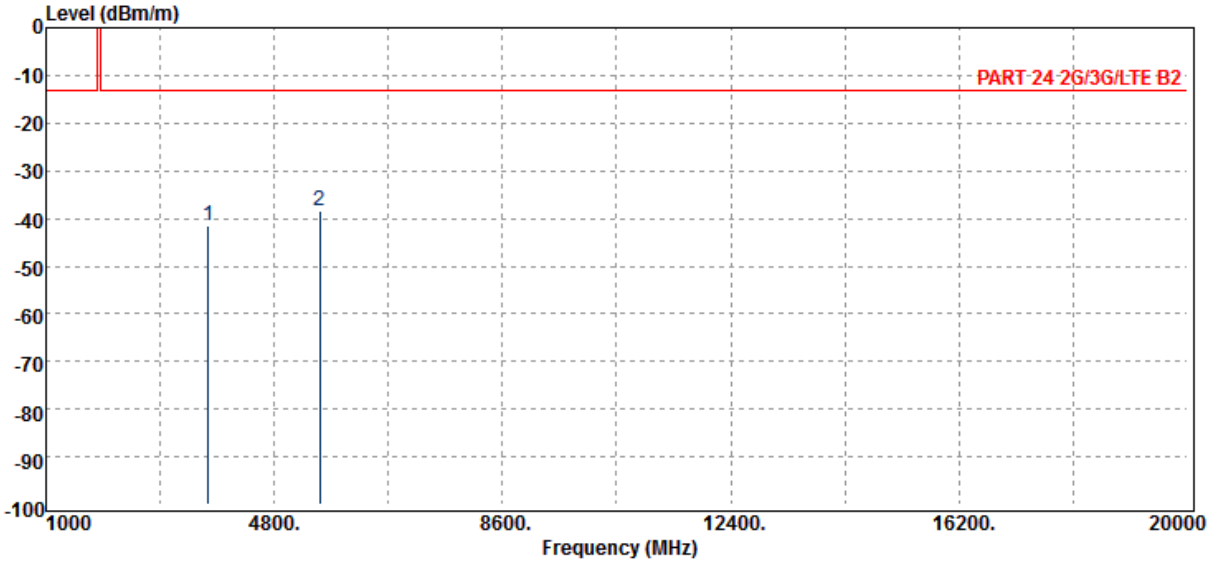
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-41.47	-43.01	8.43	-6.88	-13.00	-28.47
5552.10	H	-38.51	-40.07	10.10	-8.55	-13.00	-25.51

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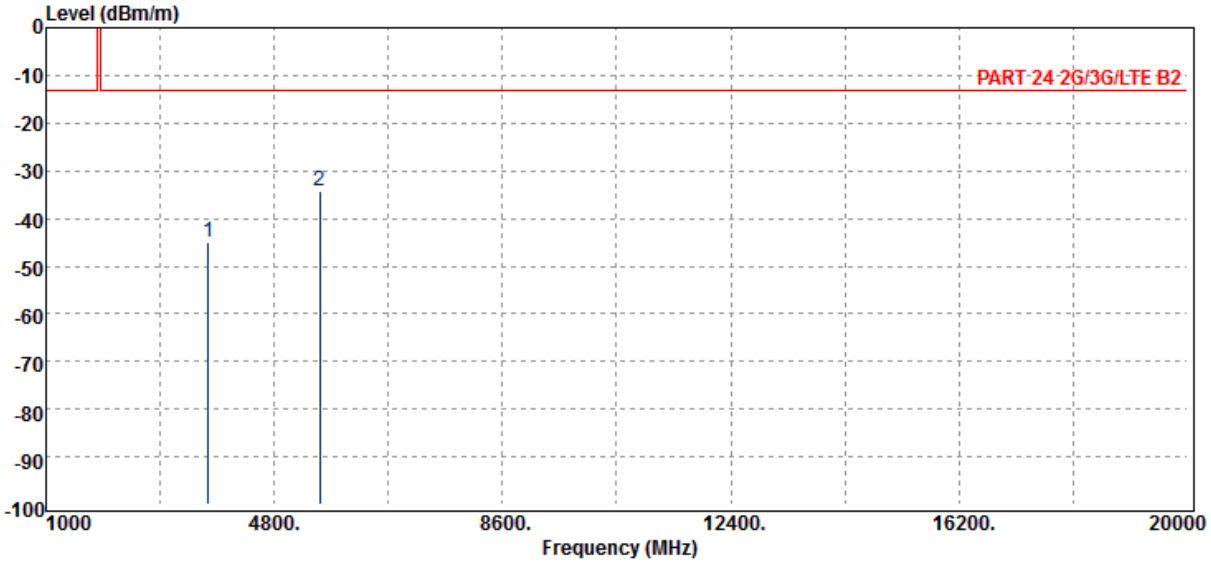
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-44.85	-46.40	8.43	-6.88	-13.00	-31.85
5552.10	H	-34.28	-35.84	10.10	-8.55	-13.00	-21.28

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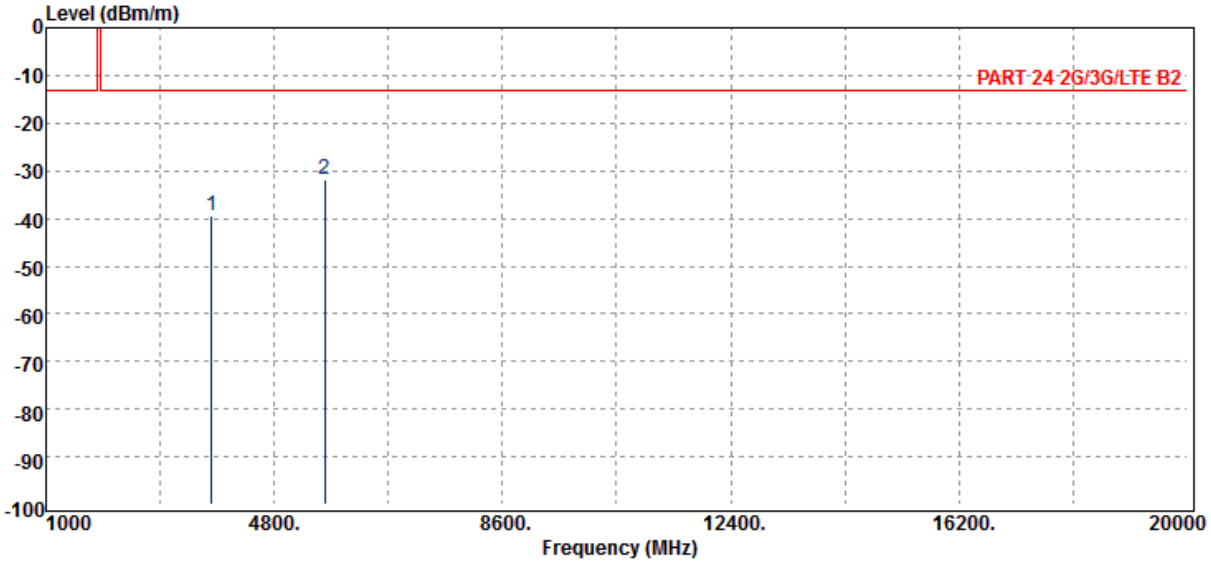
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-39.48	-40.92	8.46	-7.02	-13.00	-26.48
5640.00	H	-31.90	-33.42	10.11	-8.59	-13.00	-18.90

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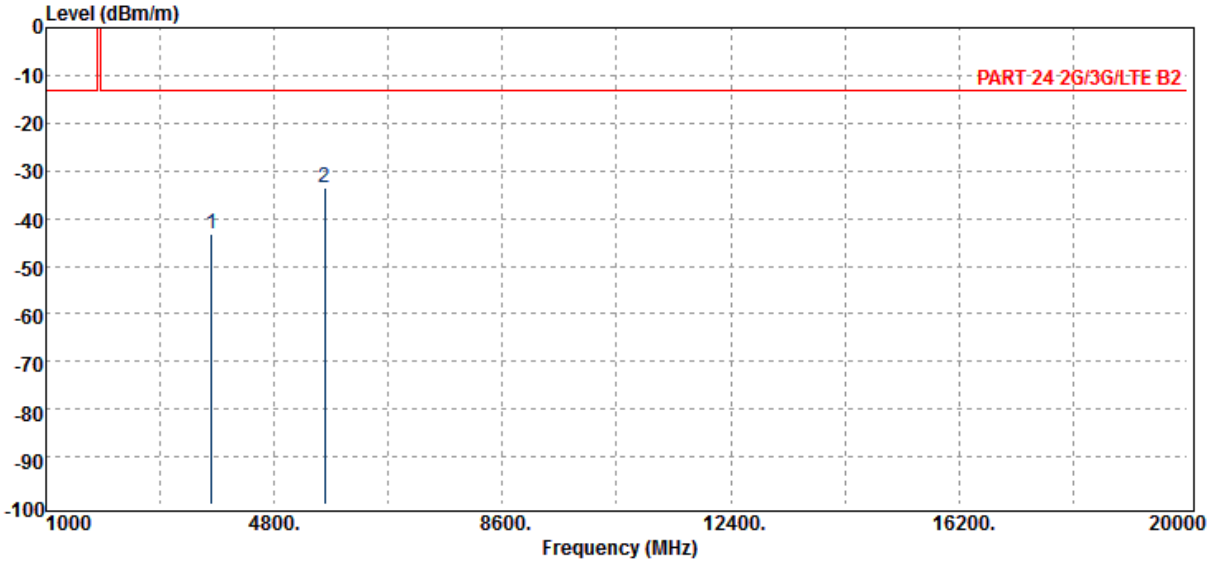
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-43.43	-44.87	8.46	-7.02	-13.00	-30.43
5640.00	H	-33.40	-34.92	10.11	-8.59	-13.00	-20.40

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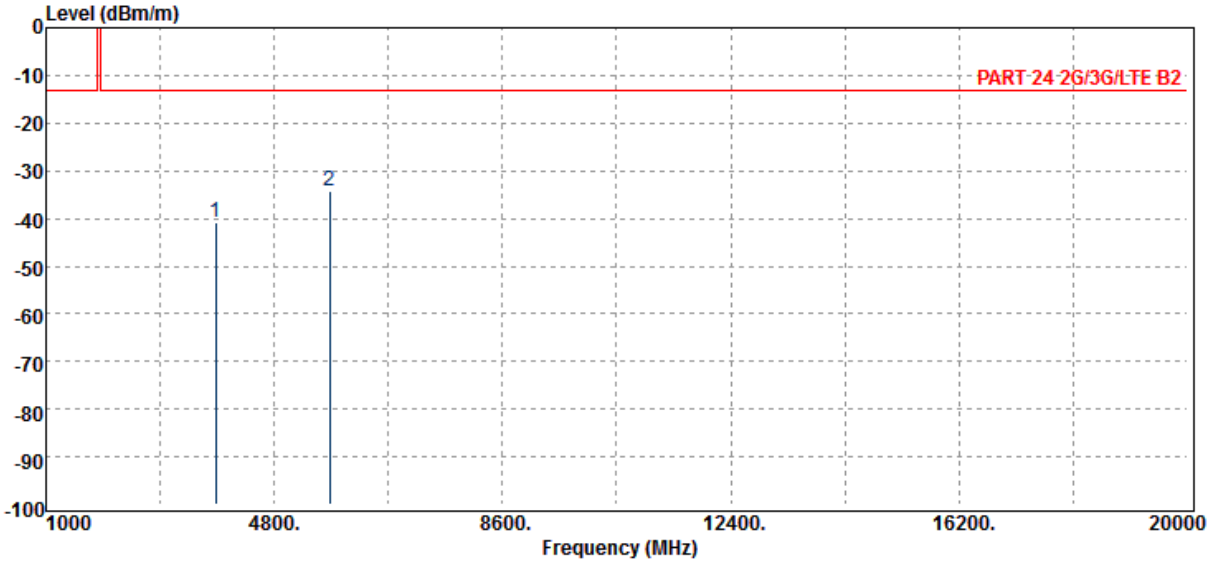
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-40.95	-42.39	8.50	-7.05	-13.00	-27.95
5727.90	H	-34.35	-35.84	10.12	-8.64	-13.00	-21.35

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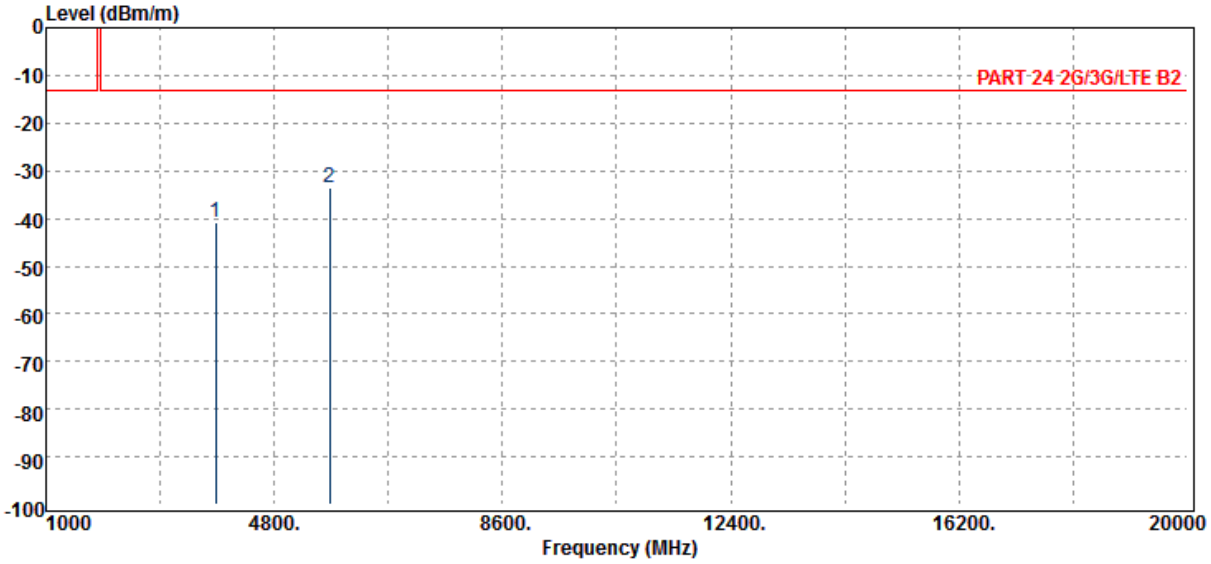
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-40.81	-42.26	8.50	-7.05	-13.00	-27.81
5727.90	H	-33.44	-34.92	10.12	-8.64	-13.00	-20.44

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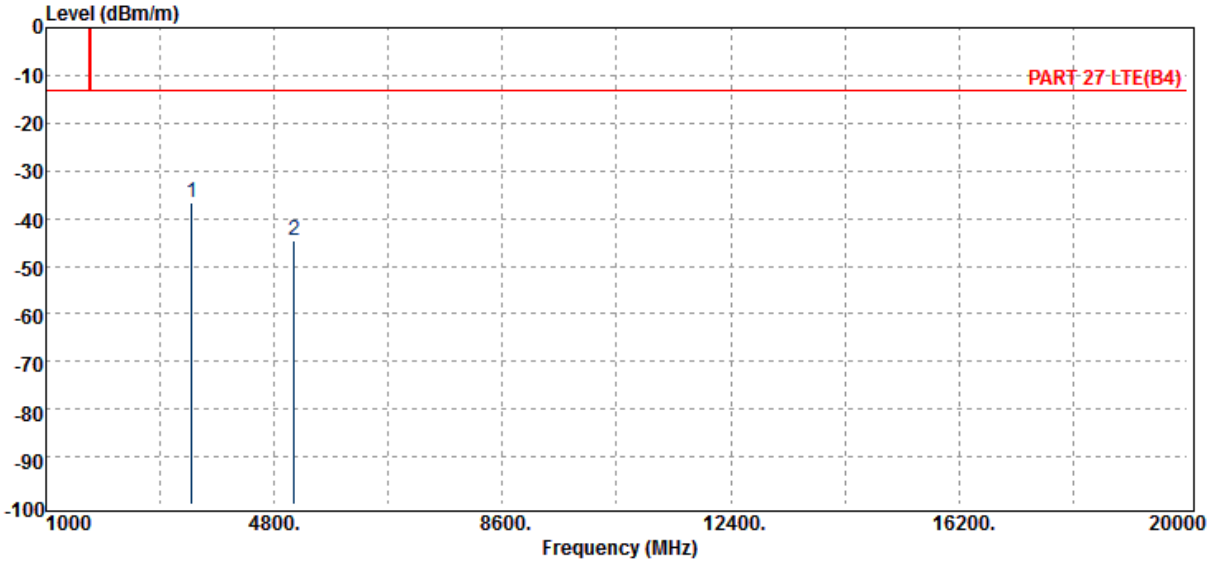
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 4 (The Worst Case)

ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3425.00	H	-36.82	-38.36	8.09	-6.54	-13.00	-23.82
5137.50	H	-44.50	-45.90	9.89	-8.48	-13.00	-31.50

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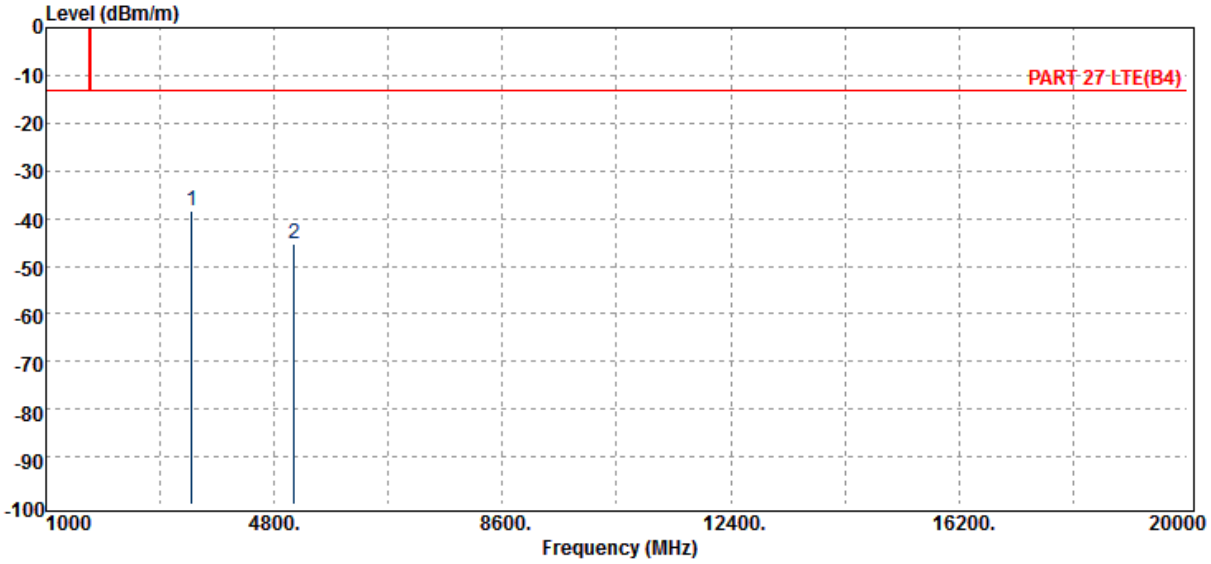
ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3425.00	H	-38.50	-40.04	8.09	-6.54	-13.00	-25.50
5137.50	H	-45.20	-46.60	9.89	-8.48	-13.00	-32.20

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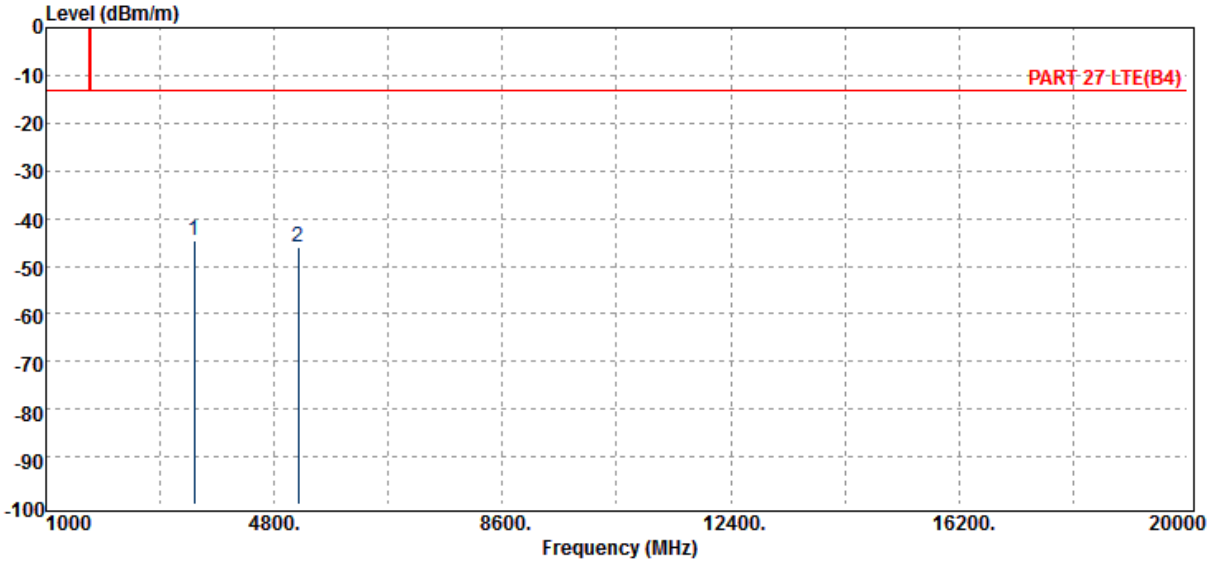
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-44.73	-46.40	8.20	-6.53	-13.00	-31.73
5197.50	H	-45.93	-47.36	9.92	-8.49	-13.00	-32.93

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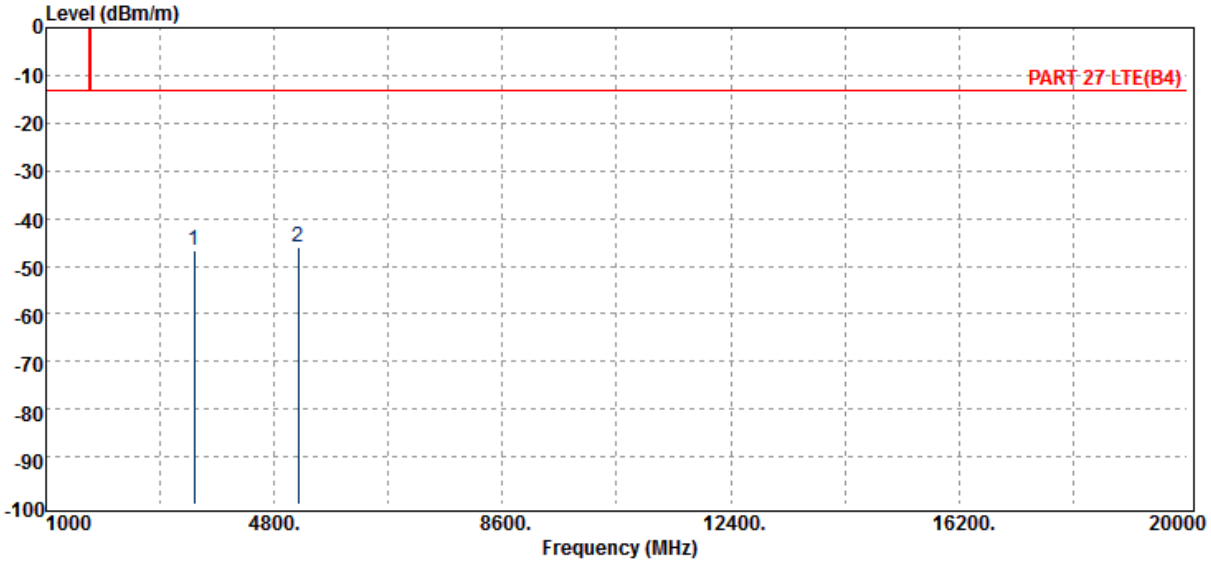
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-46.61	-48.28	8.20	-6.53	-13.00	-33.61
5197.50	H	-45.90	-47.33	9.92	-8.49	-13.00	-32.90

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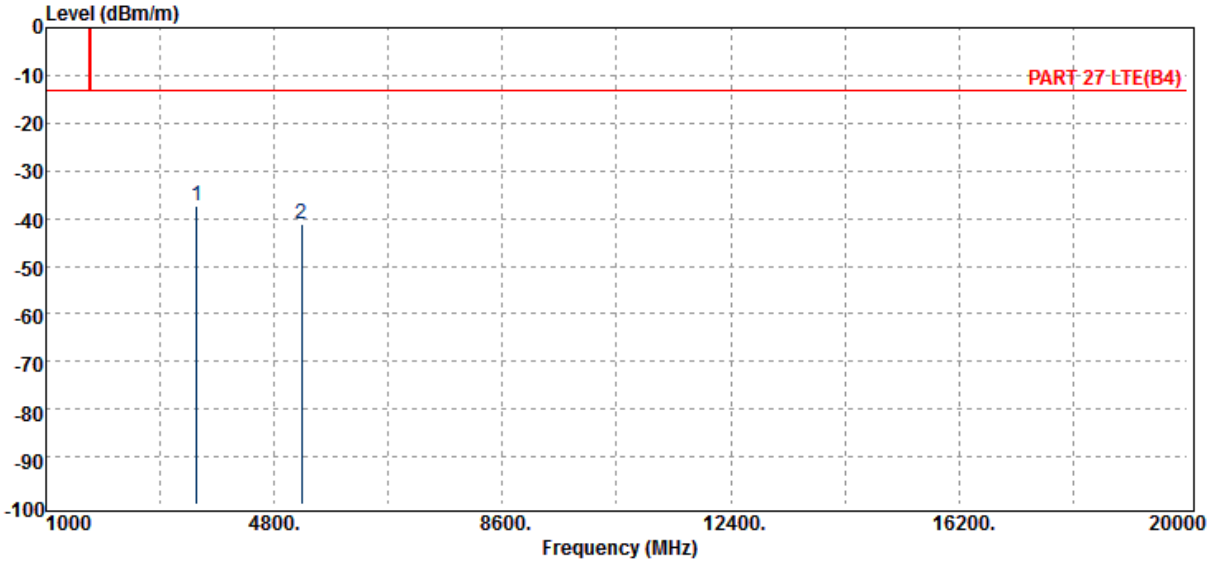
ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.00	H	-37.31	-38.94	8.30	-6.68	-13.00	-24.31
5257.50	H	-41.16	-42.54	9.96	-8.57	-13.00	-28.16

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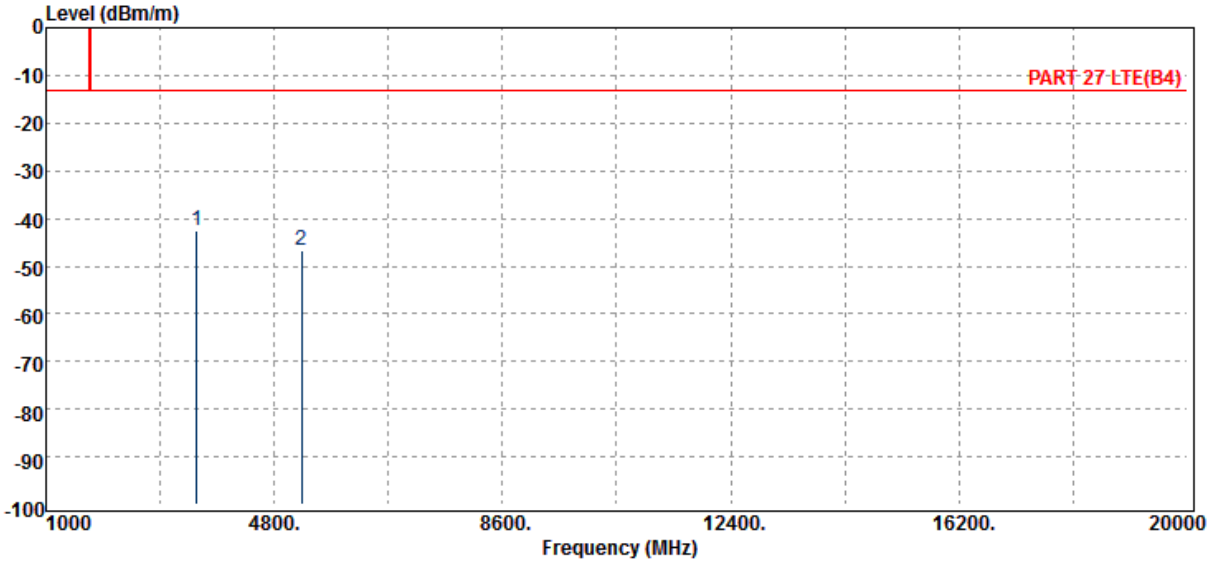
ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.00	H	-42.57	-44.20	8.30	-6.68	-13.00	-29.57
5257.50	H	-46.59	-47.98	9.96	-8.57	-13.00	-33.59

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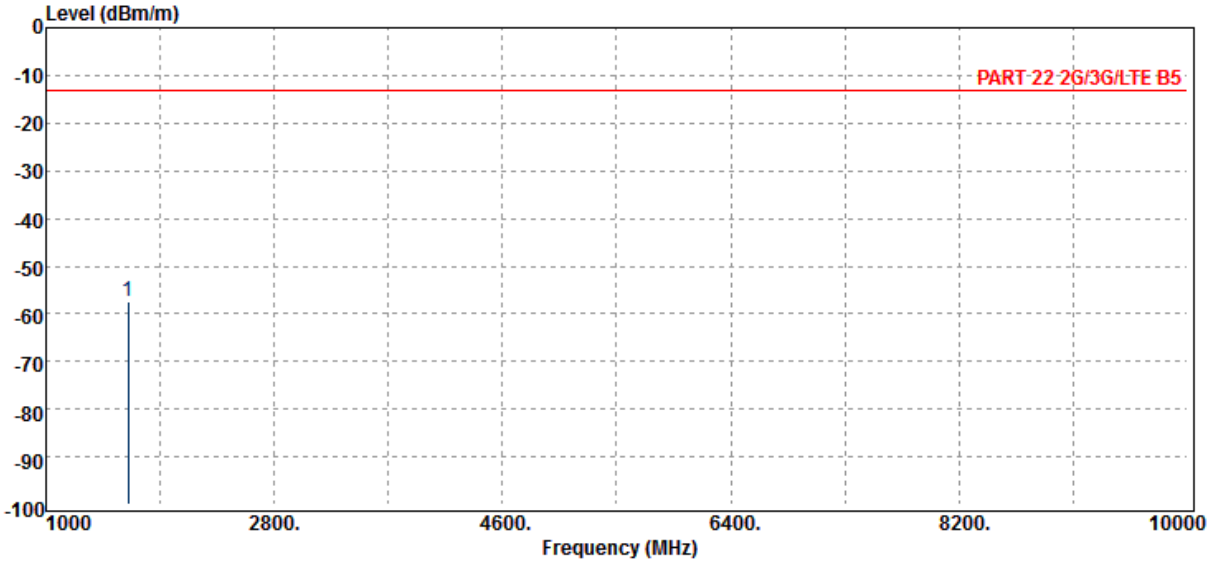
Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5 (The Worst Case)

ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1651.00	H	-57.46	-56.29	3.05	-4.22	-13.00	-44.46

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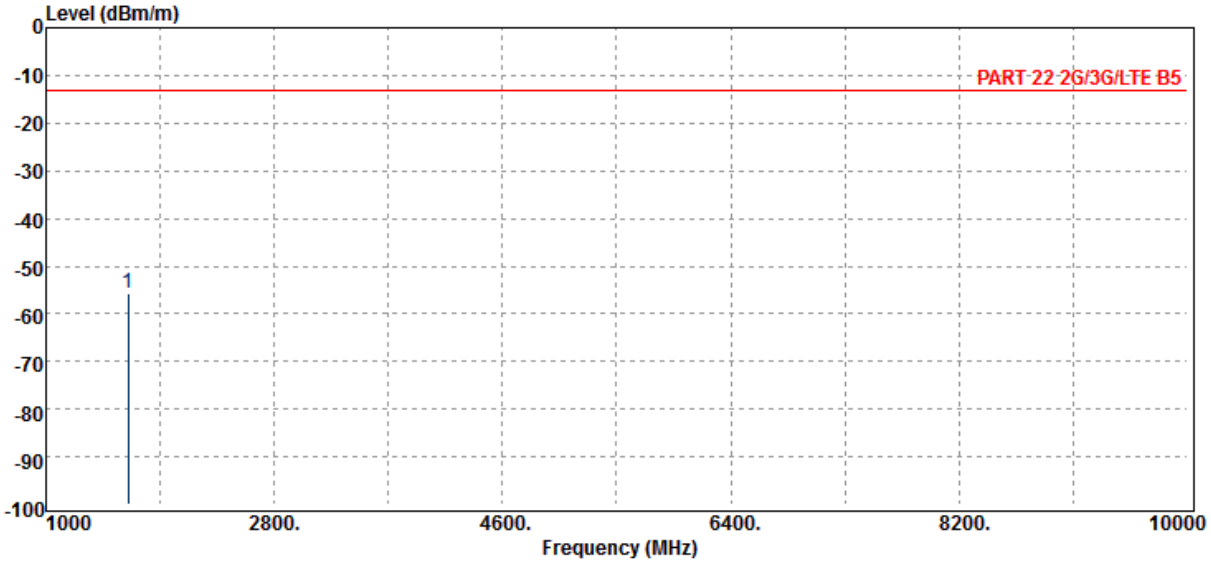
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1651.00	H	-55.74	-54.57	3.05	-4.22	-13.00	-42.74

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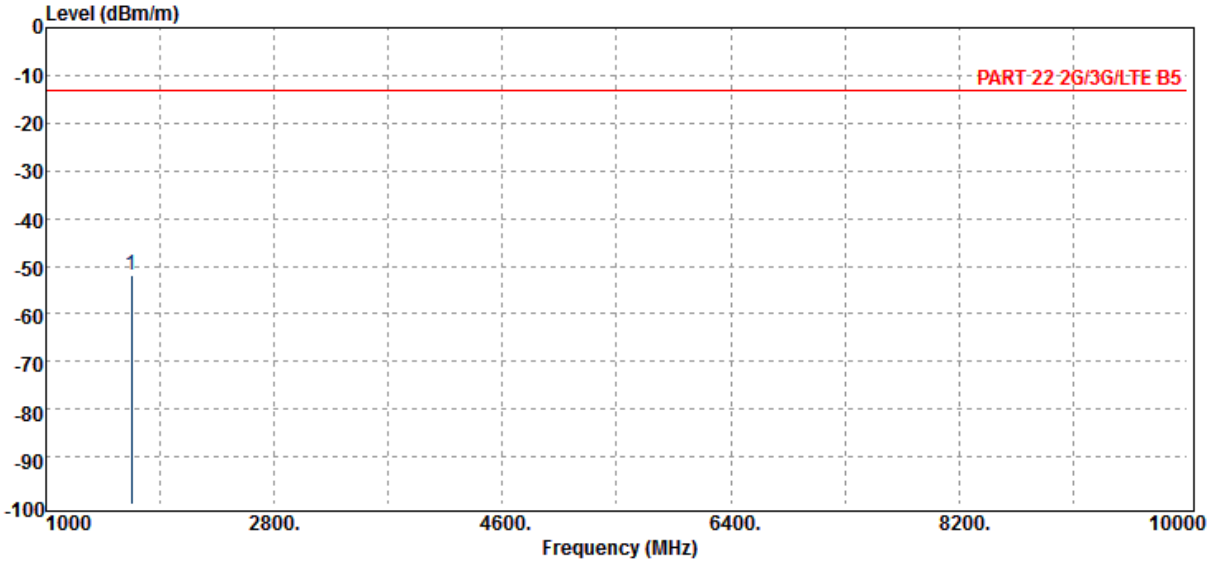
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	-51.89	-50.64	3.01	-4.26	-13.00	-38.89

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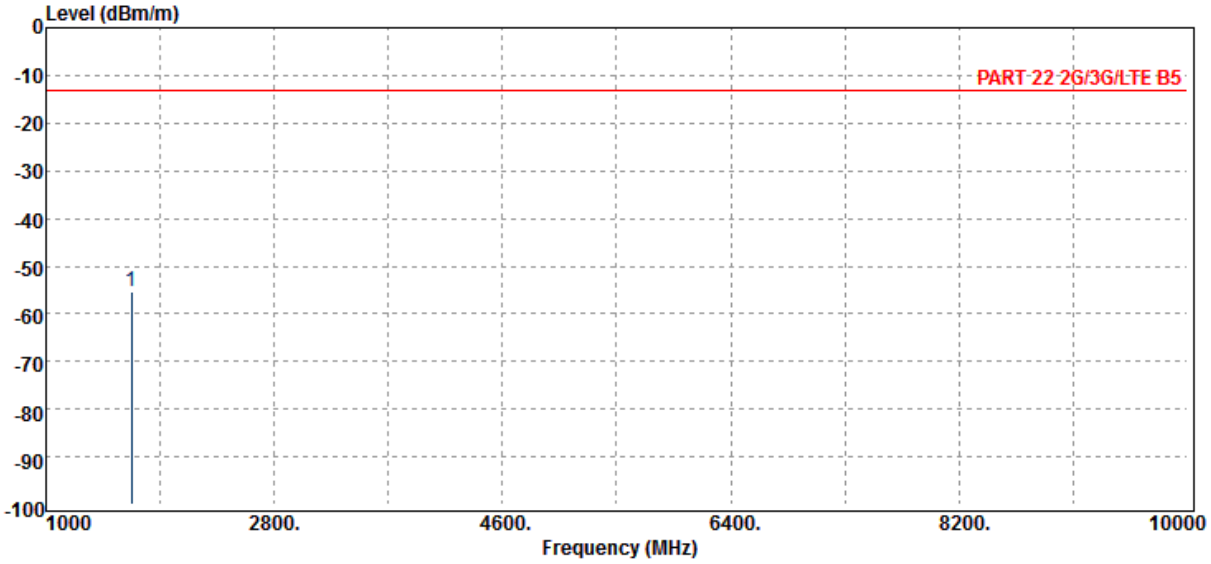
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	-55.39	-54.15	3.01	-4.26	-13.00	-42.39

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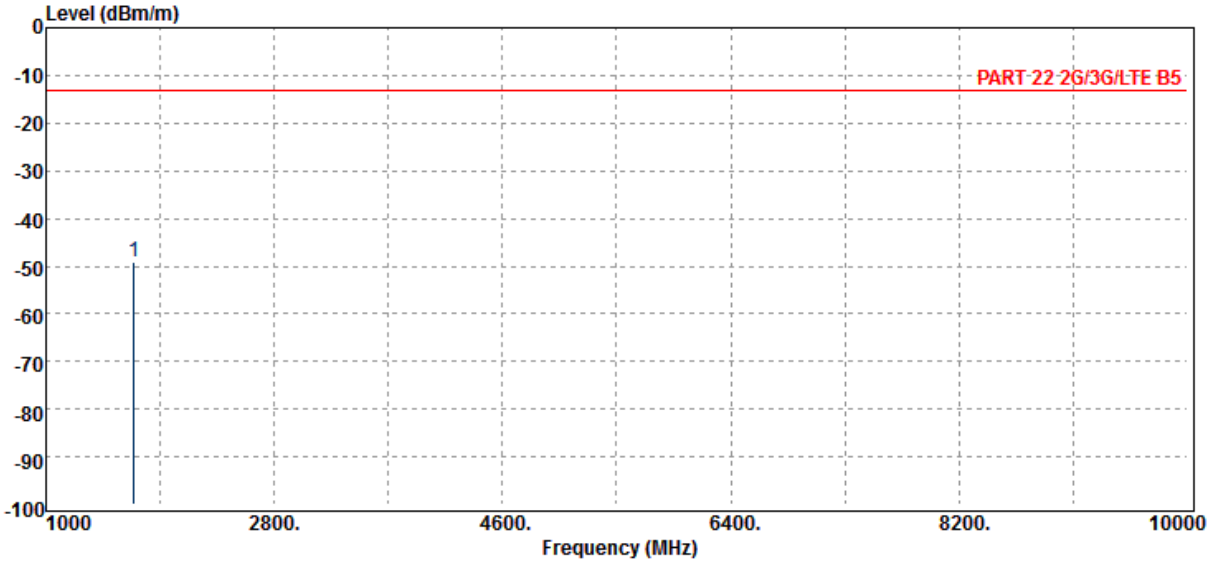
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	H	-49.04	-47.73	2.96	-4.28	-13.00	-36.04

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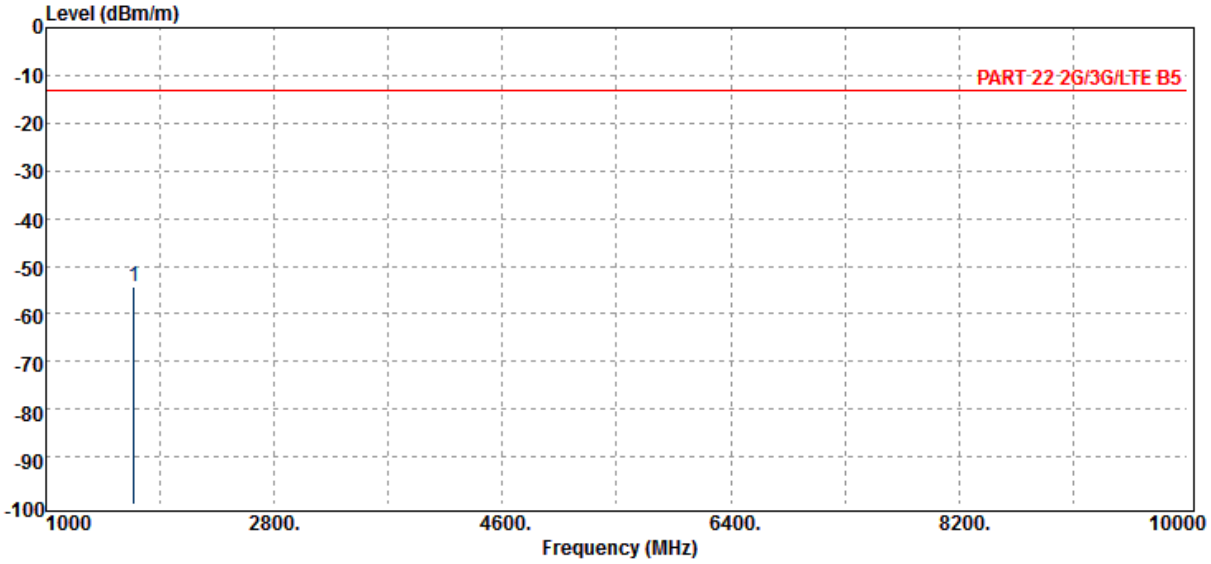
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	H	-54.40	-53.09	2.96	-4.28	-13.00	-41.40

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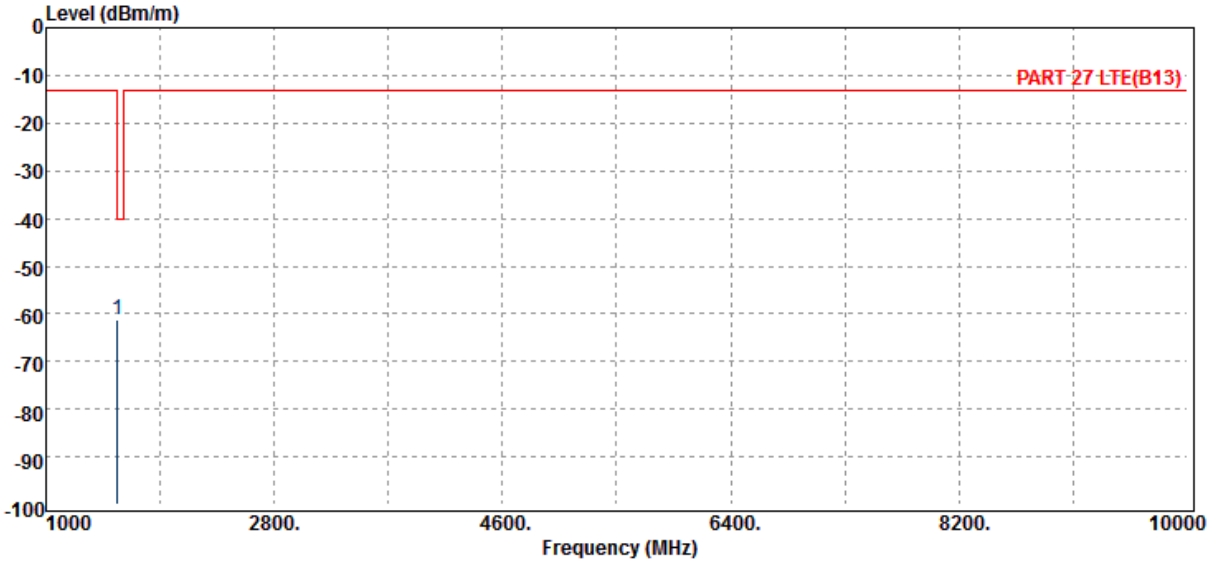
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-61.40	-60.52	3.22	-4.11	-40.00	-21.40

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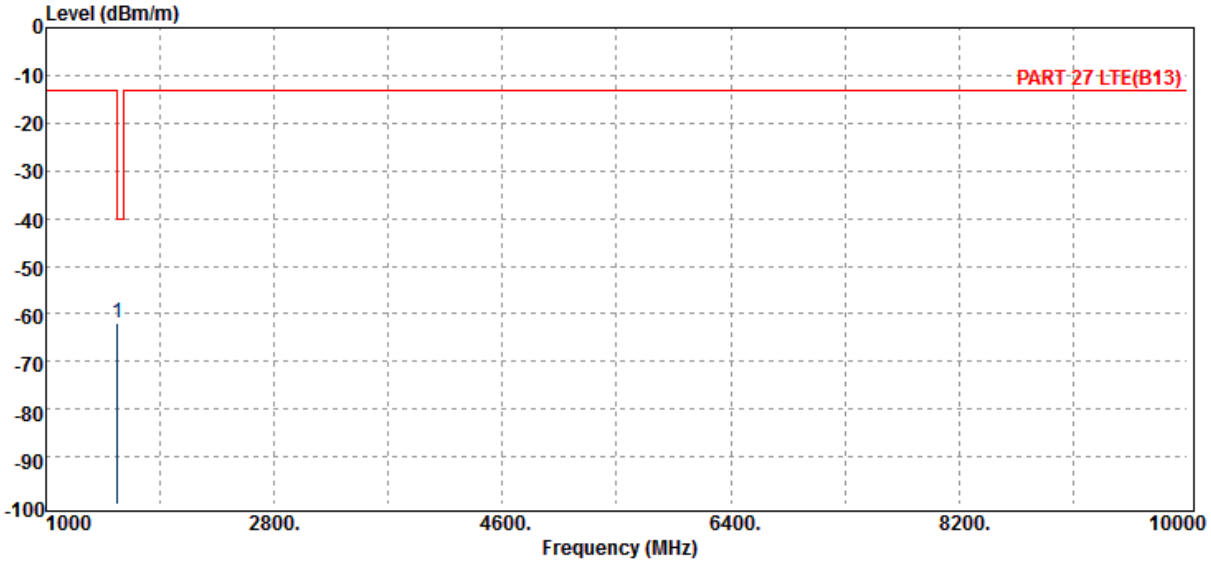
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-61.99	-61.10	3.22	-4.11	-40.00	-21.99

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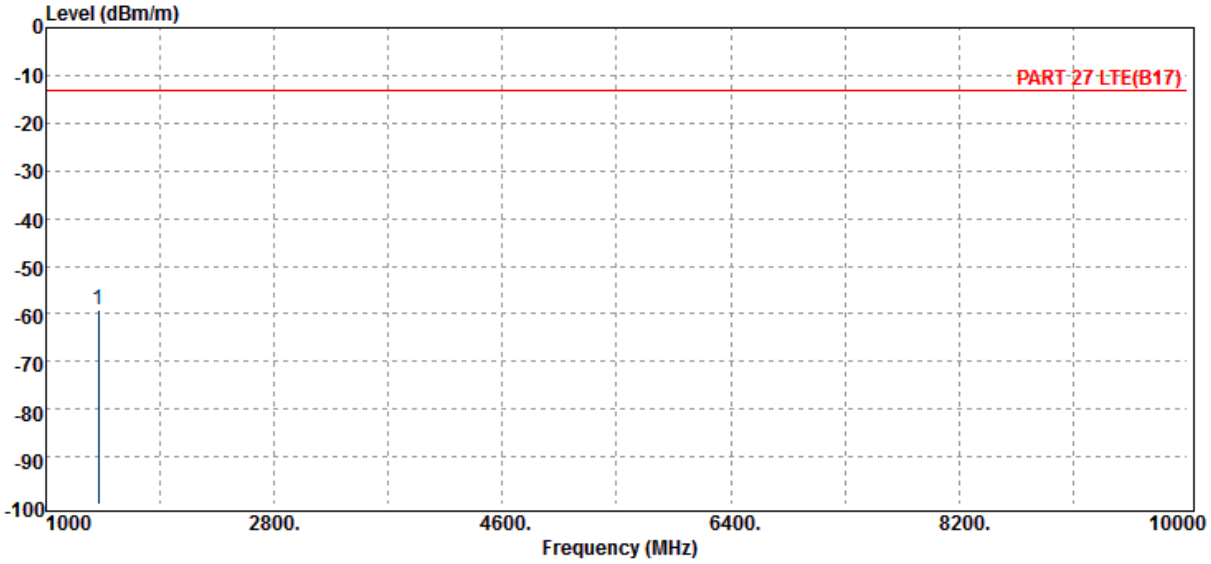
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1413.00	H	-59.08	-57.98	2.85	-3.94	-13.00	-46.08

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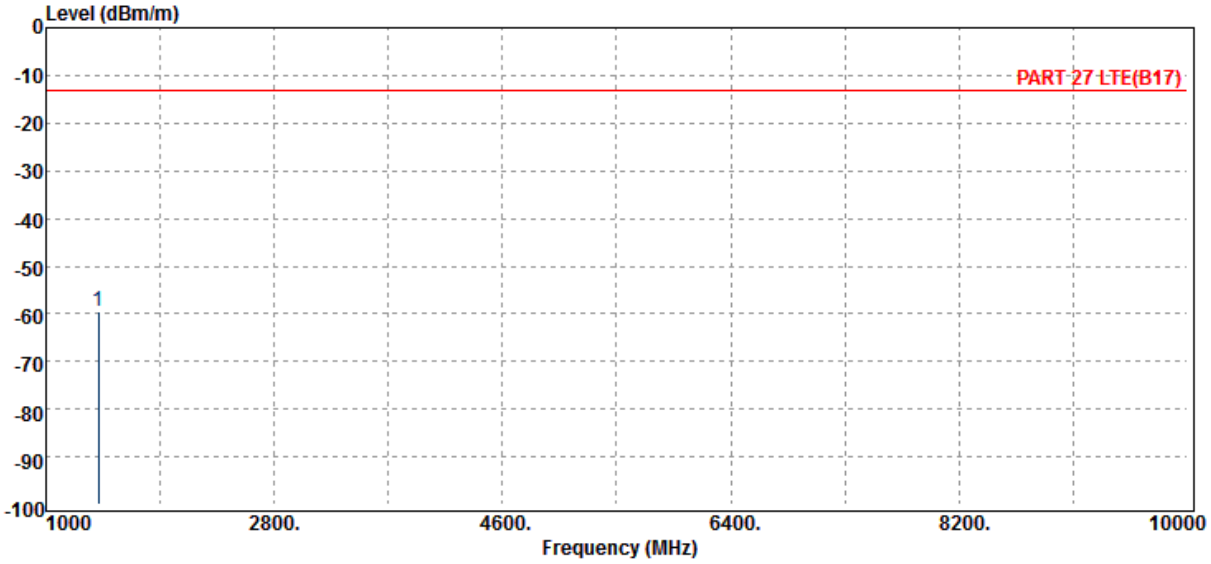
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1413.00	H	-59.45	-58.35	2.85	-3.94	-13.00	-46.45

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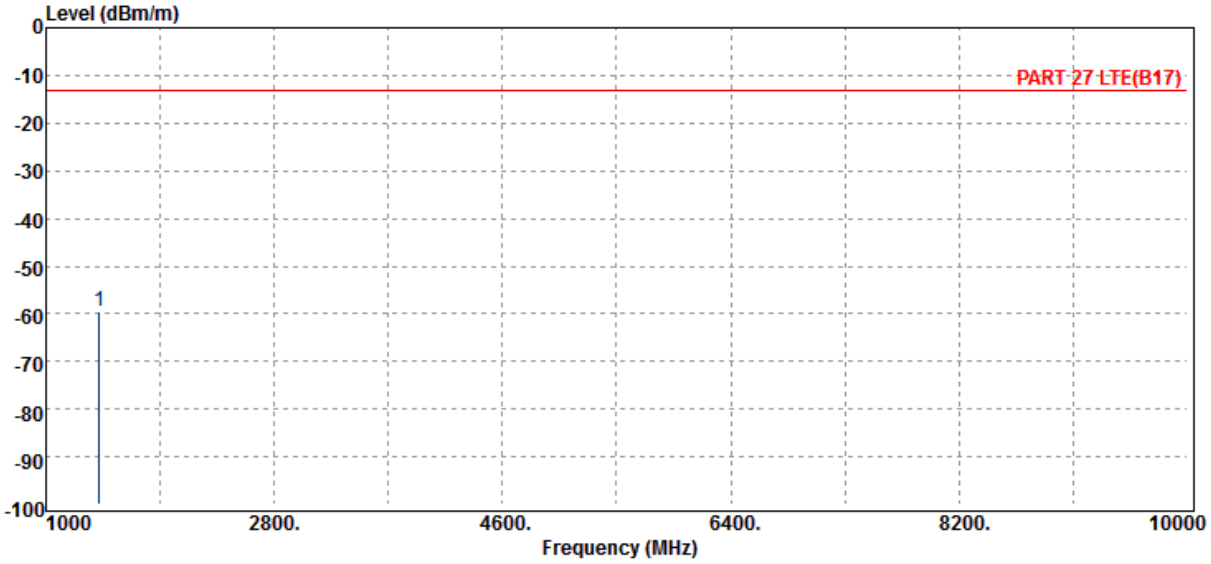
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1420.00	H	-59.59	-58.52	2.89	-3.96	-13.00	-46.59

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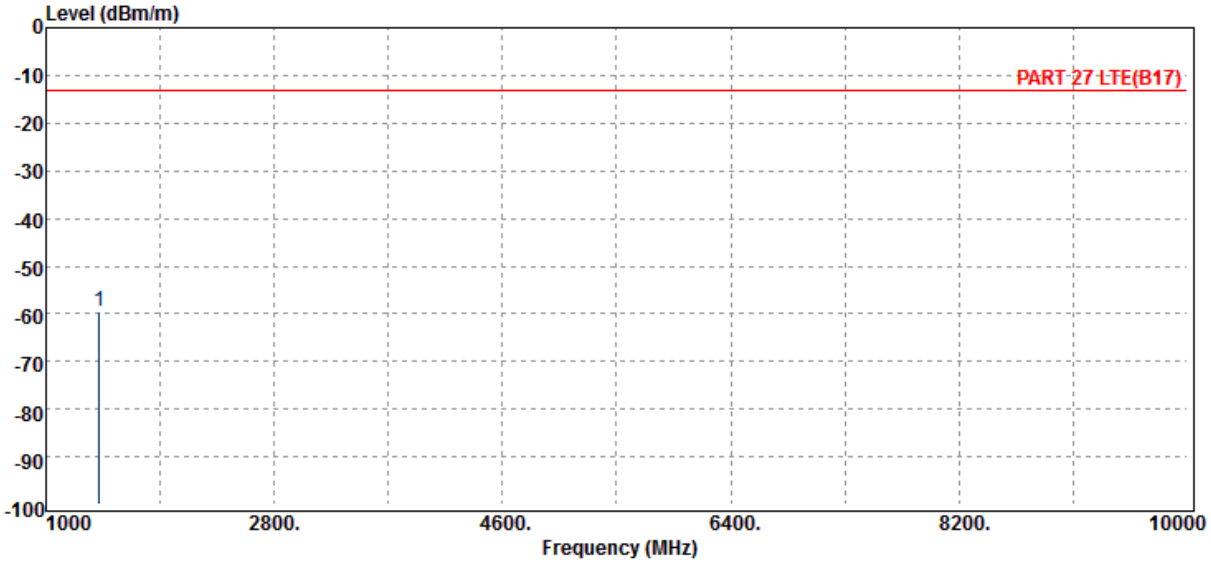
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1420.00	H	-59.69	-58.62	2.89	-3.96	-13.00	-46.69

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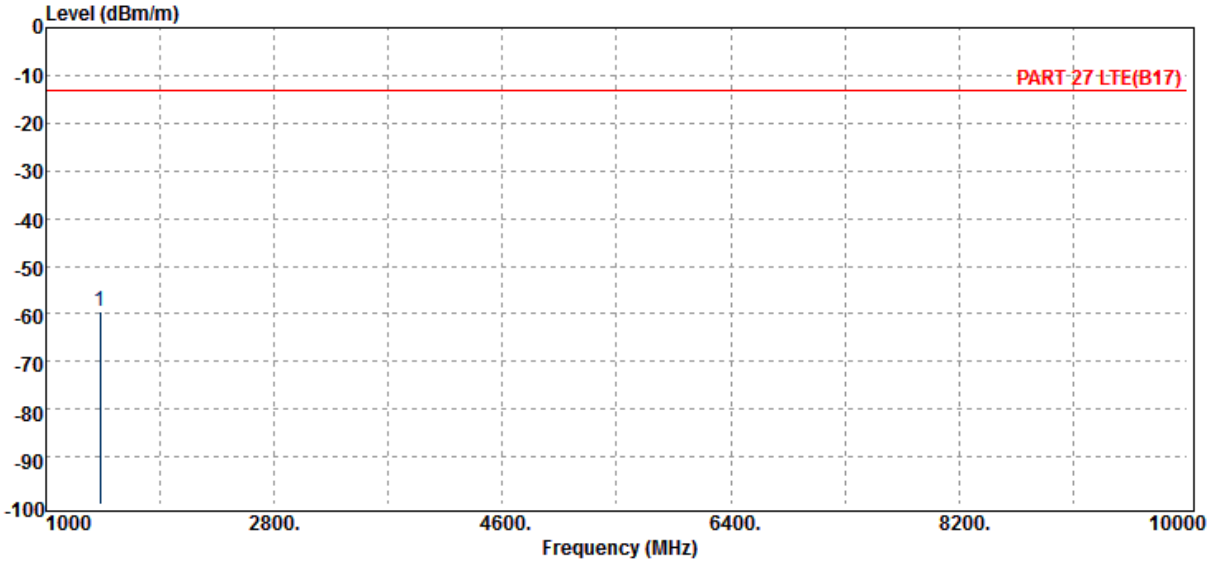
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	-59.60	-58.57	2.93	-3.97	-13.00	-46.60

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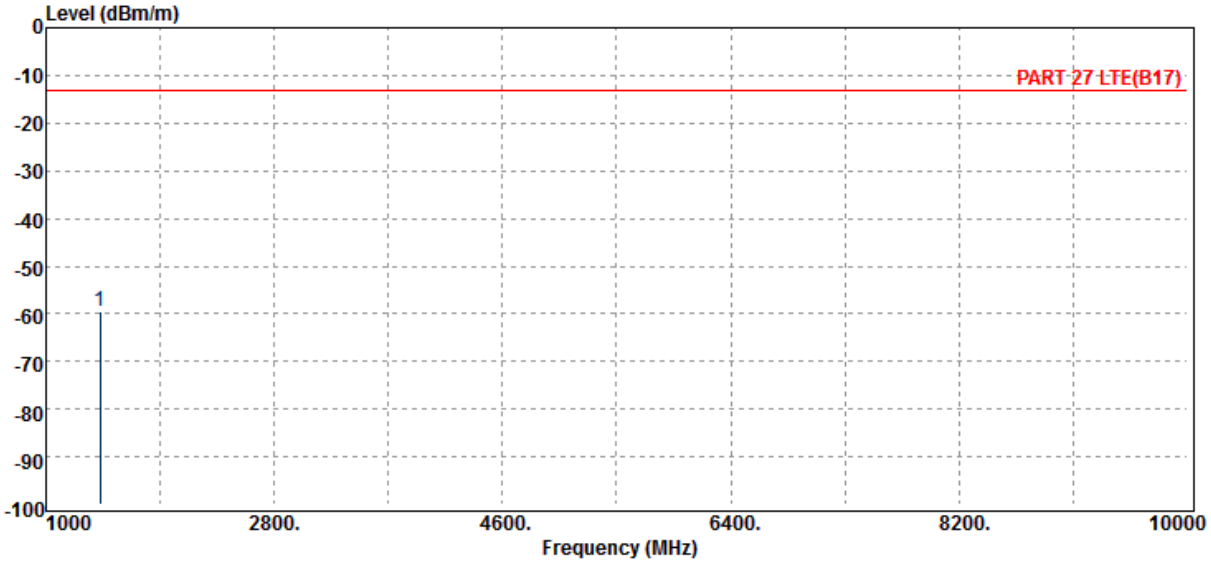
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	-59.39	-58.35	2.93	-3.97	-13.00	-46.39

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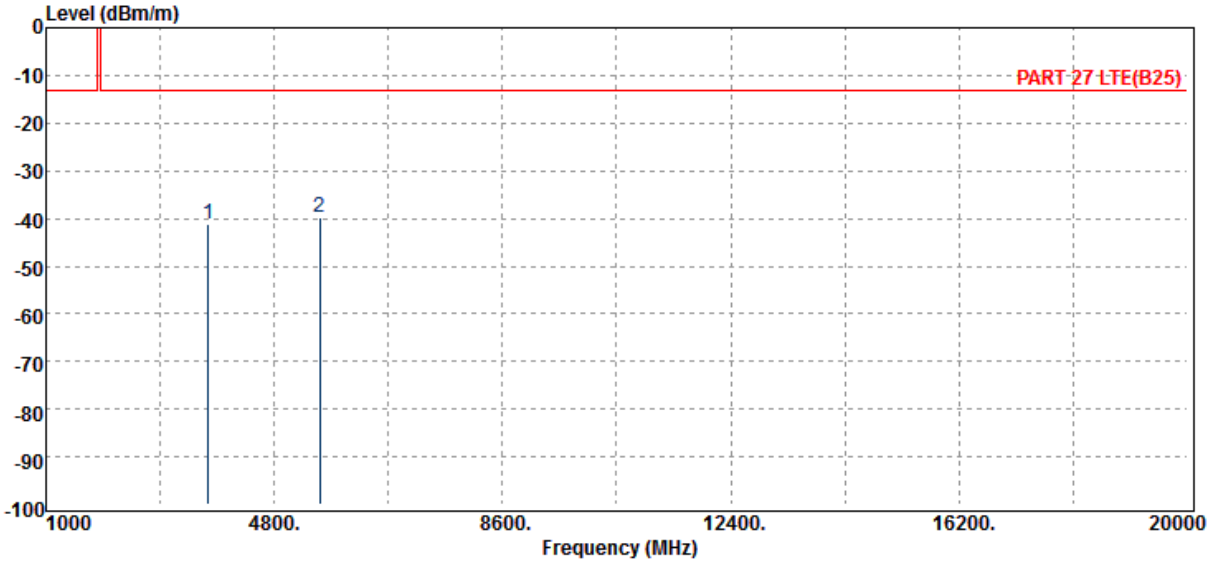
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 25 (The Worst Case)

ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3705.00	H	-41.03	-42.56	8.43	-6.89	-13.00	-28.03
5557.50	H	-39.71	-41.27	10.10	-8.54	-13.00	-26.71

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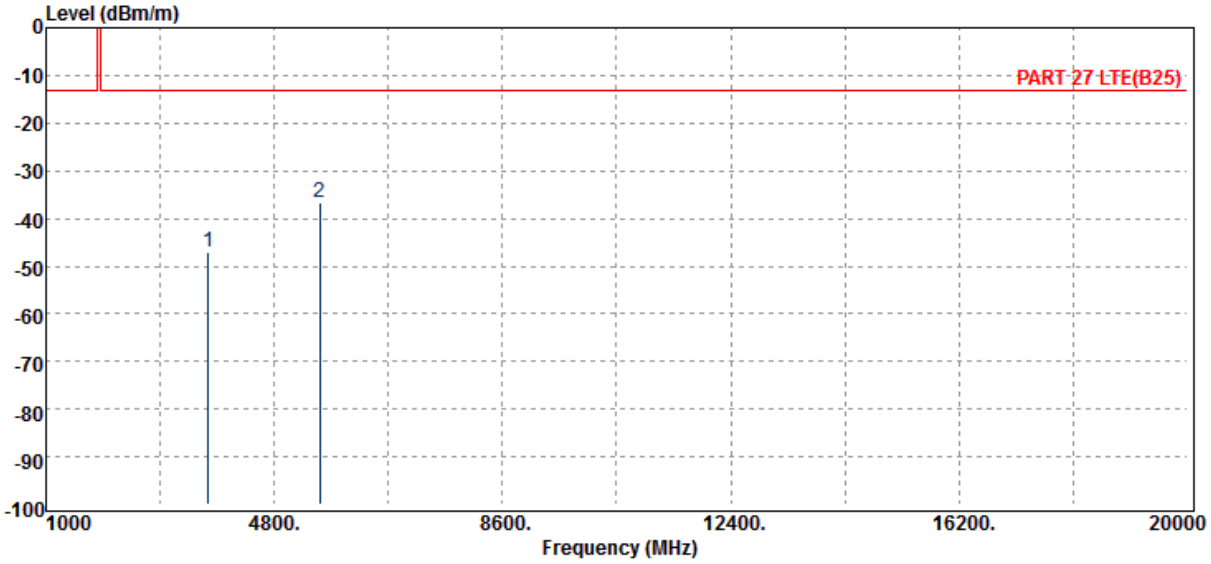
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3705.00	H	-47.03	-48.57	8.43	-6.89	-13.00	-34.03
5557.50	H	-36.57	-38.13	10.10	-8.54	-13.00	-23.57

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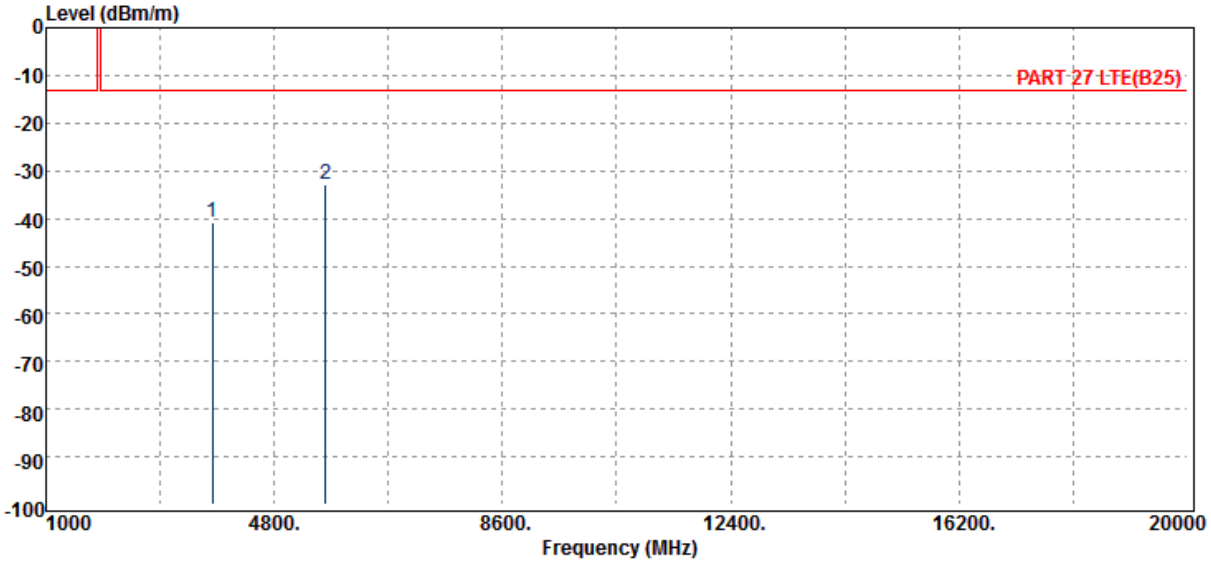
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-40.99	-42.42	8.46	-7.03	-13.00	-27.99
5647.50	H	-32.73	-34.25	10.11	-8.59	-13.00	-19.73

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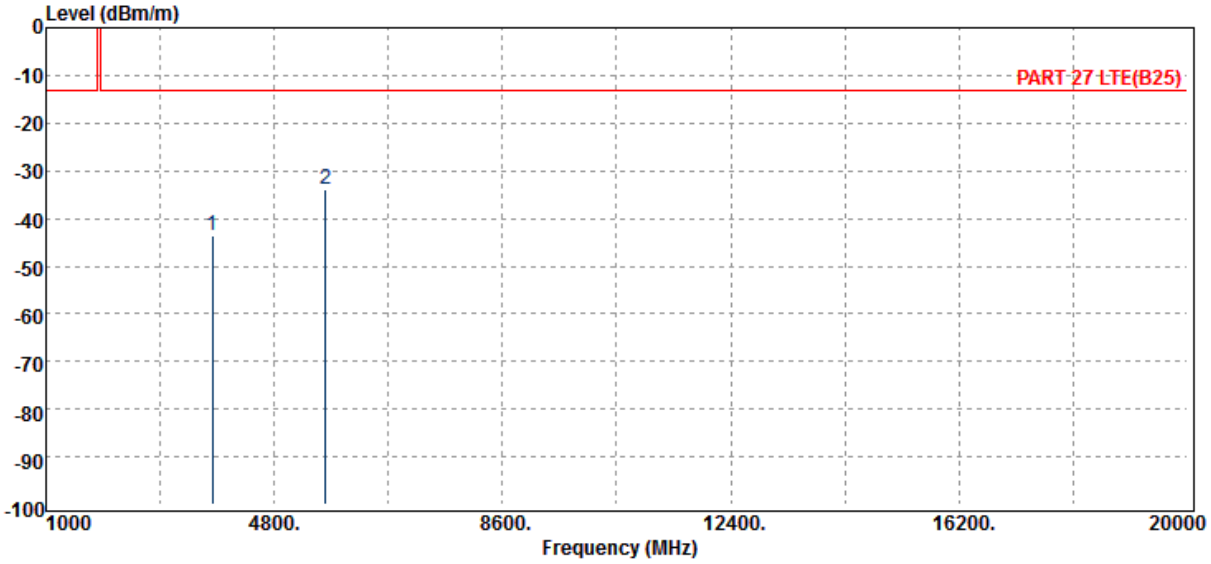
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-43.55	-44.99	8.46	-7.03	-13.00	-30.55
5647.50	H	-33.94	-35.47	10.11	-8.59	-13.00	-20.94

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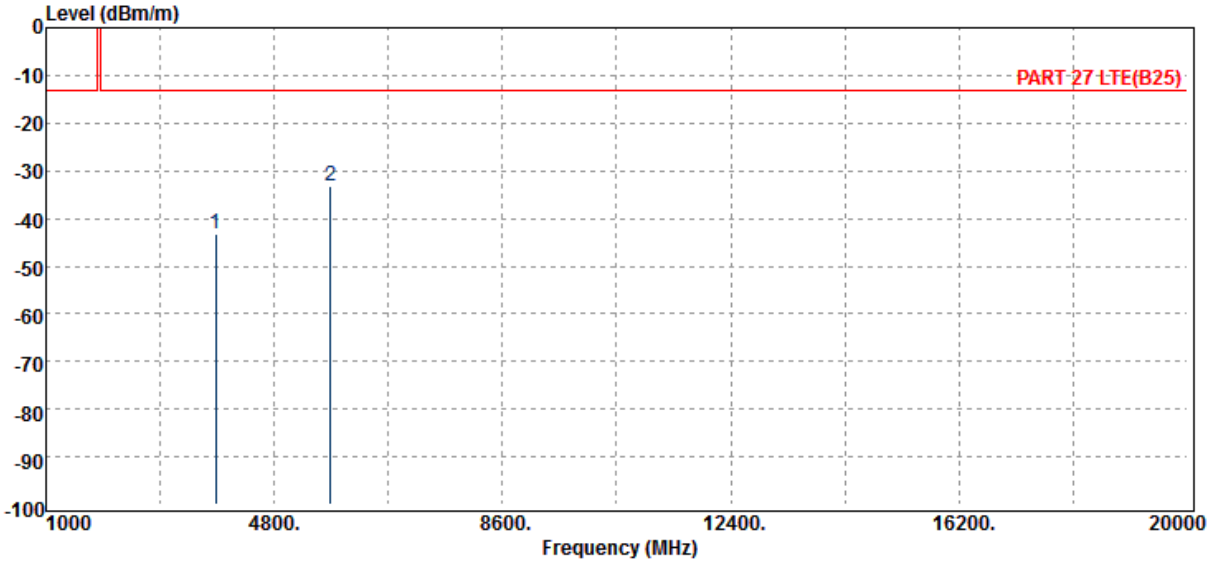
ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3825.00	H	-43.26	-44.71	8.50	-7.05	-13.00	-30.26
5737.50	H	-33.07	-34.54	10.12	-8.66	-13.00	-20.07

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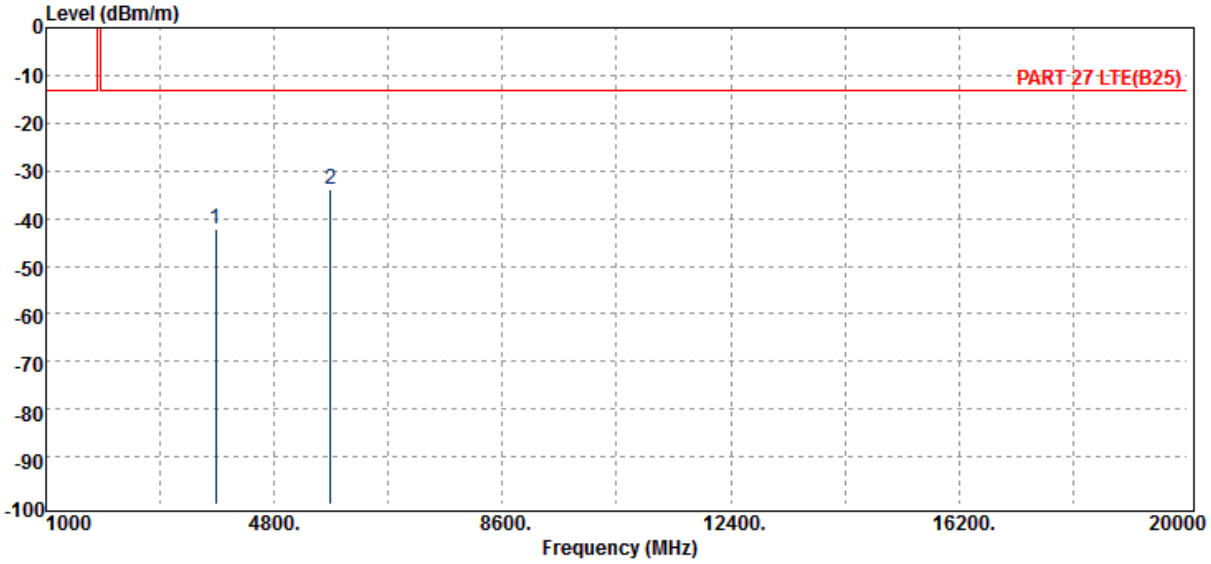
ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3825.00	H	-42.10	-43.55	8.50	-7.05	-13.00	-29.10
5737.50	H	-33.77	-35.23	10.12	-8.66	-13.00	-20.77

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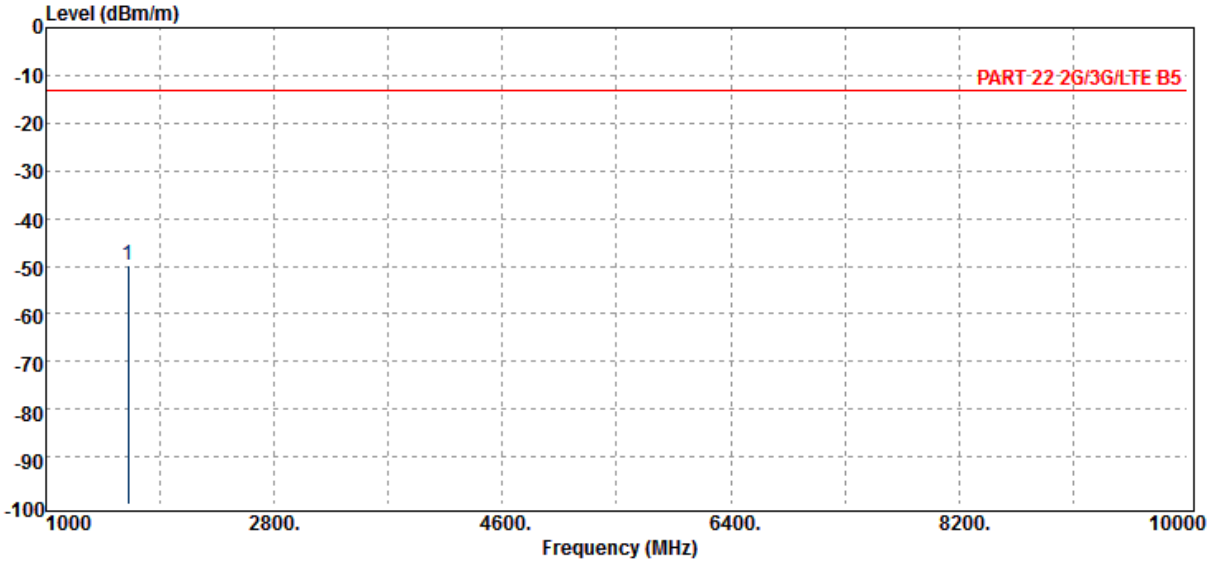
***Antenna Model No.: TRA6927M3**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-49.97	-48.81	3.05	-4.21	-13.00	-36.97

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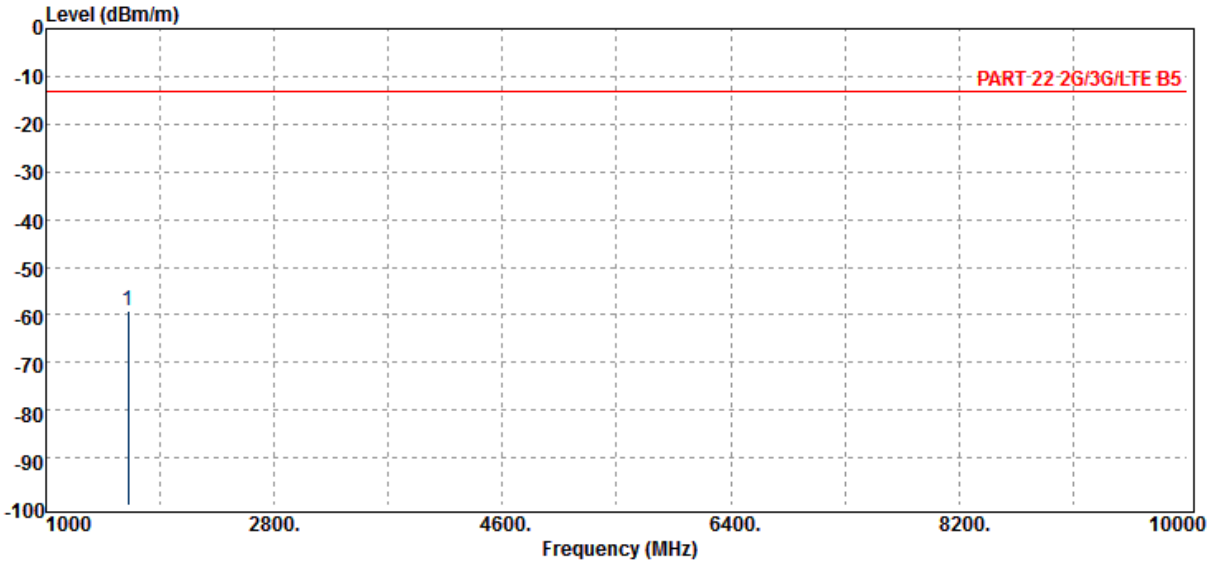
ARFCN	:CH 128	Test Date	:2015-03-27
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-59.28	-58.12	3.05	-4.21	-13.00	-46.28

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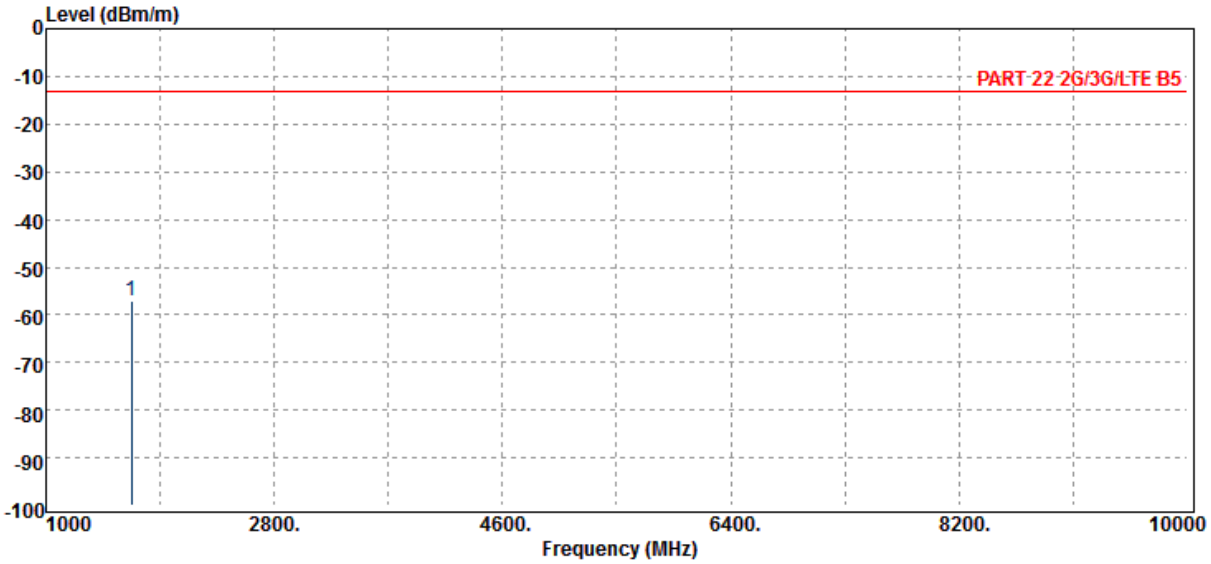
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-57.13	-55.88	3.01	-4.26	-13.00	-44.13

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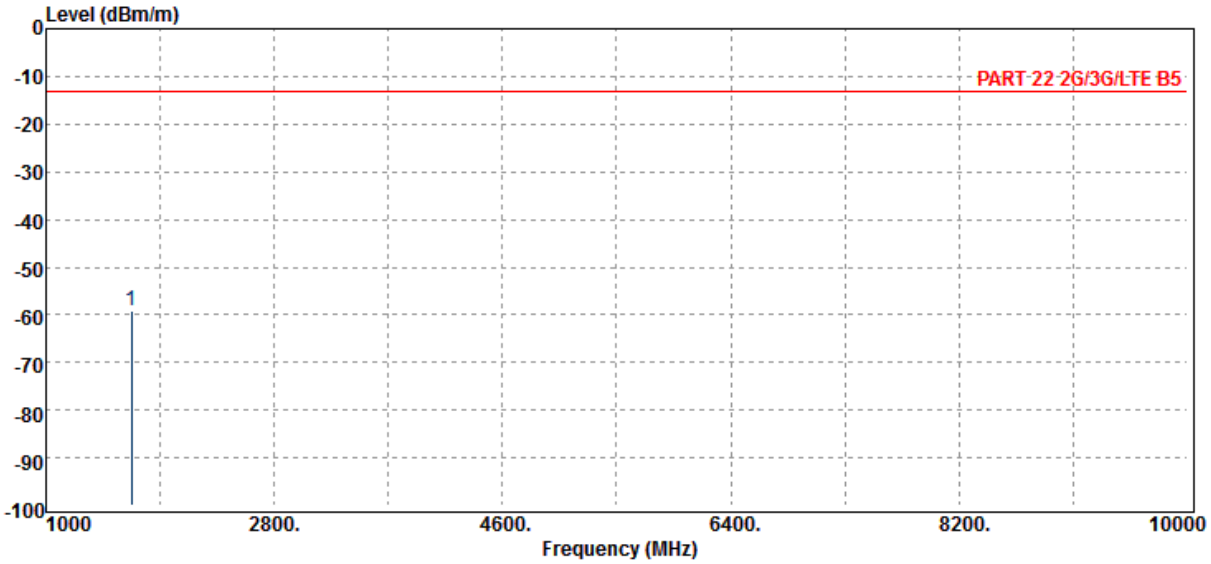
ARFCN	:CH 190	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-59.09	-57.85	3.01	-4.26	-13.00	-46.09

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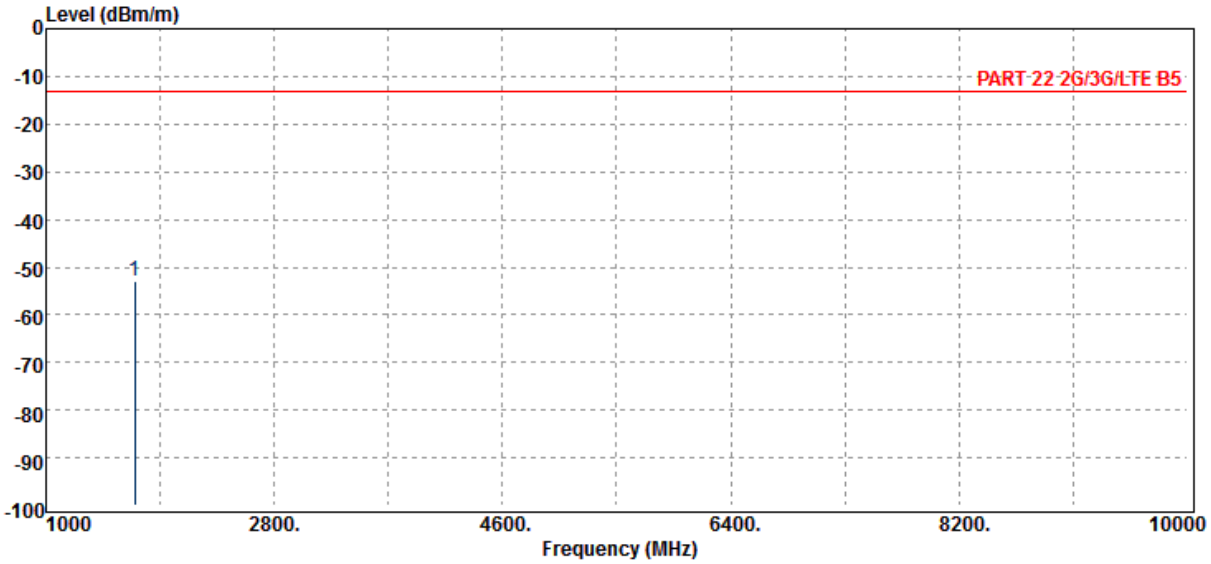
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-52.88	-51.57	2.96	-4.28	-13.00	-39.88

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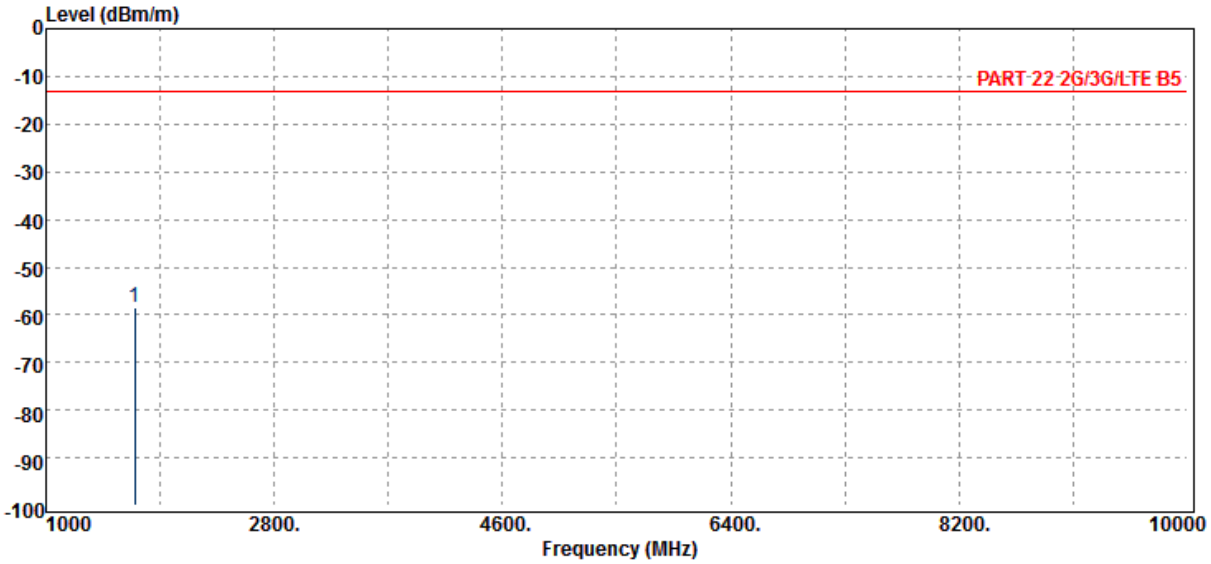
ARFCN	:CH 251	Test Date	:2015-03-27
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-58.42	-57.10	2.96	-4.28	-13.00	-45.42

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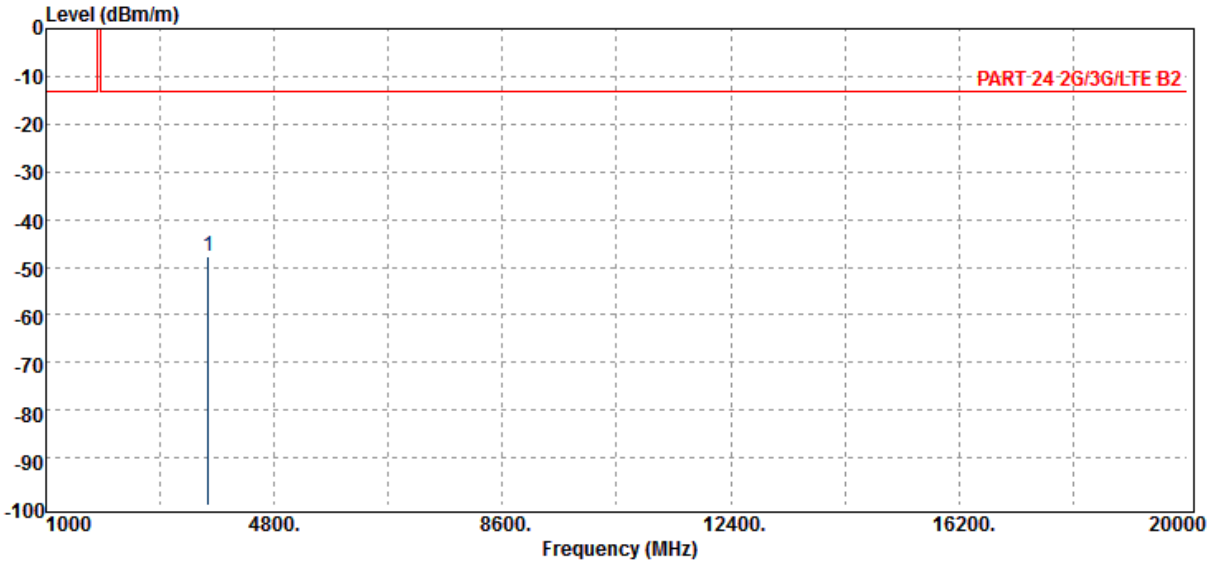
Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-47.71	-49.25	8.43	-6.88	-13.00	-34.71

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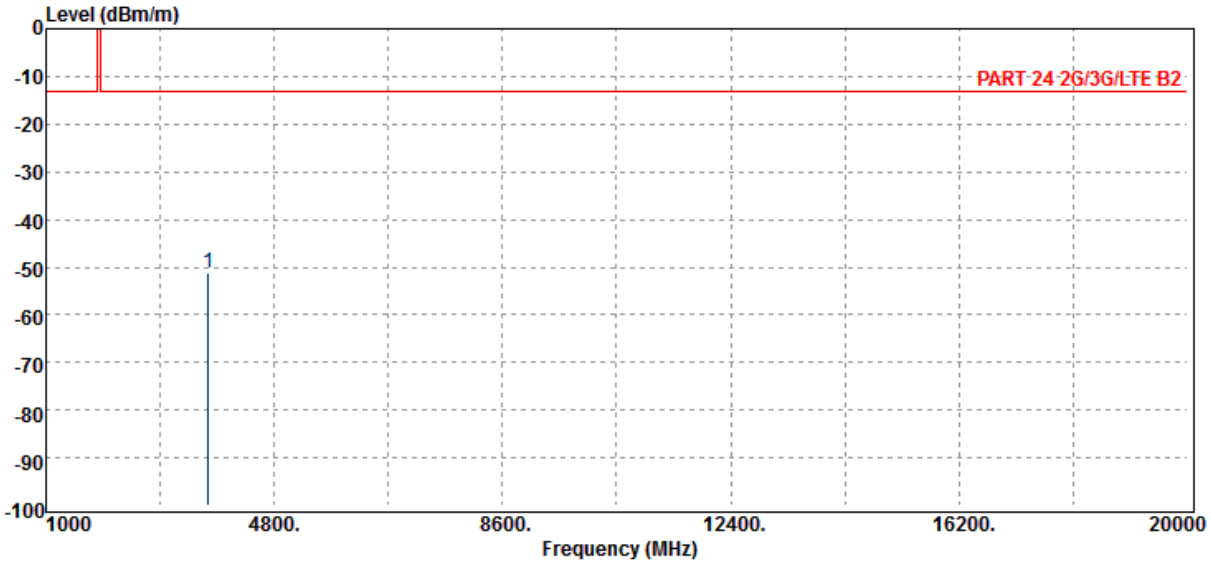
ARFCN	:CH 512	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-51.37	-52.91	8.43	-6.88	-13.00	-38.37

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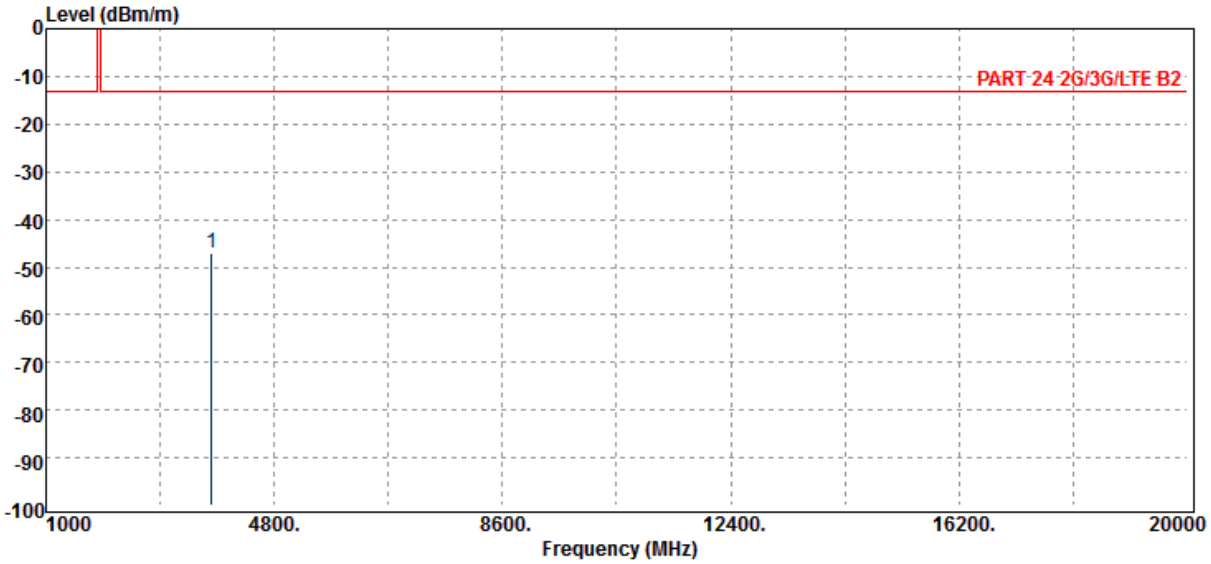
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-47.09	-48.53	8.46	-7.02	-13.00	-34.09

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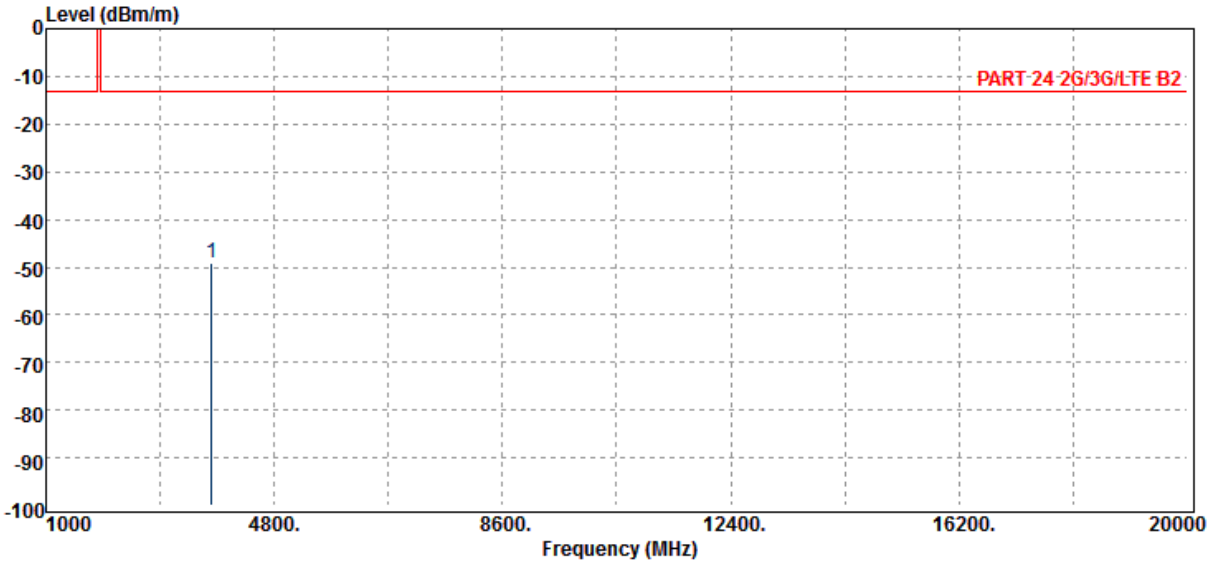
ARFCN	:CH 661	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-49.13	-50.57	8.46	-7.02	-13.00	-36.13

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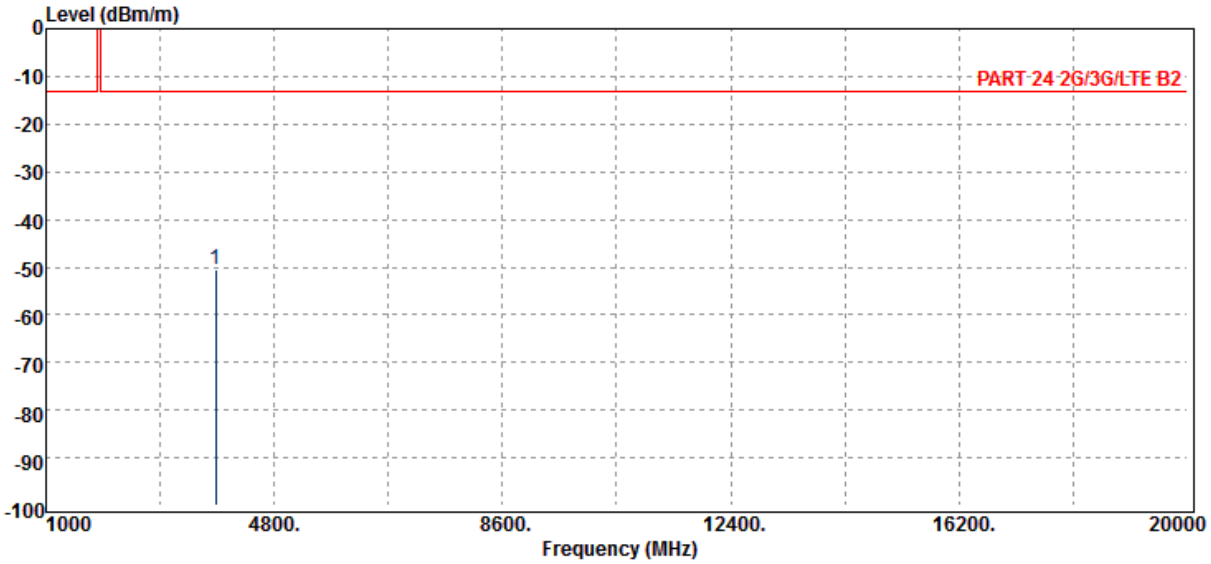
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-50.51	-51.95	8.50	-7.05	-13.00	-37.51

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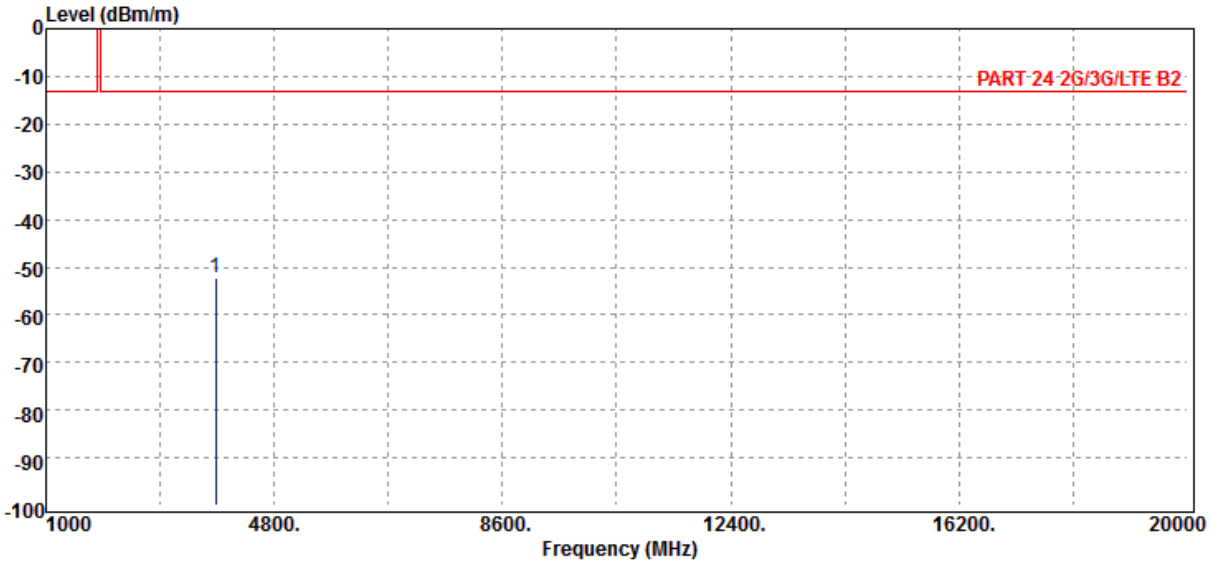
ARFCN	:CH 810	Test Date	:2015-03-27
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-52.21	-53.66	8.50	-7.05	-13.00	-39.21

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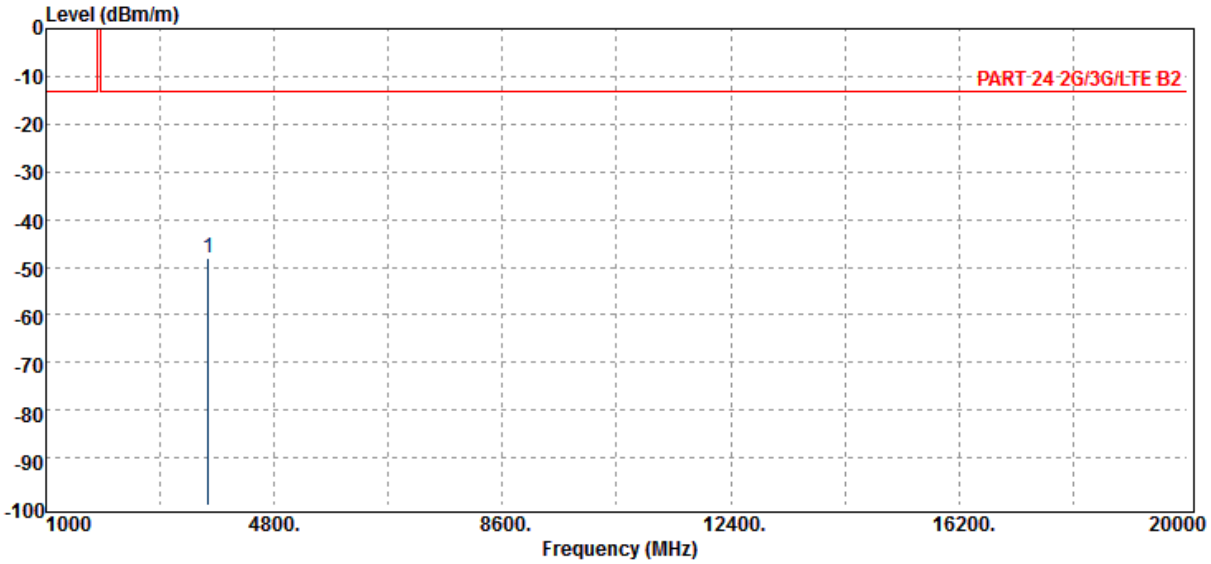
Radiated Spurious Emission Measurement Result: HSDPA II Mode

ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-47.95	-49.49	8.43	-6.89	-13.00	-34.95

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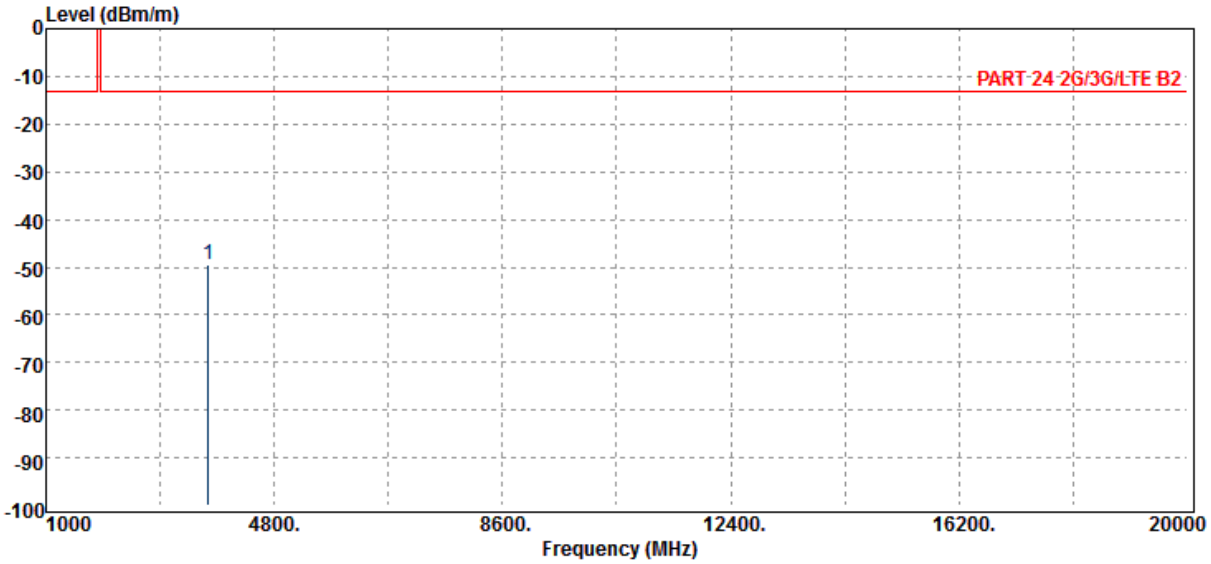
ARFCN	:CH 9262	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-49.63	-51.17	8.43	-6.89	-13.00	-36.63

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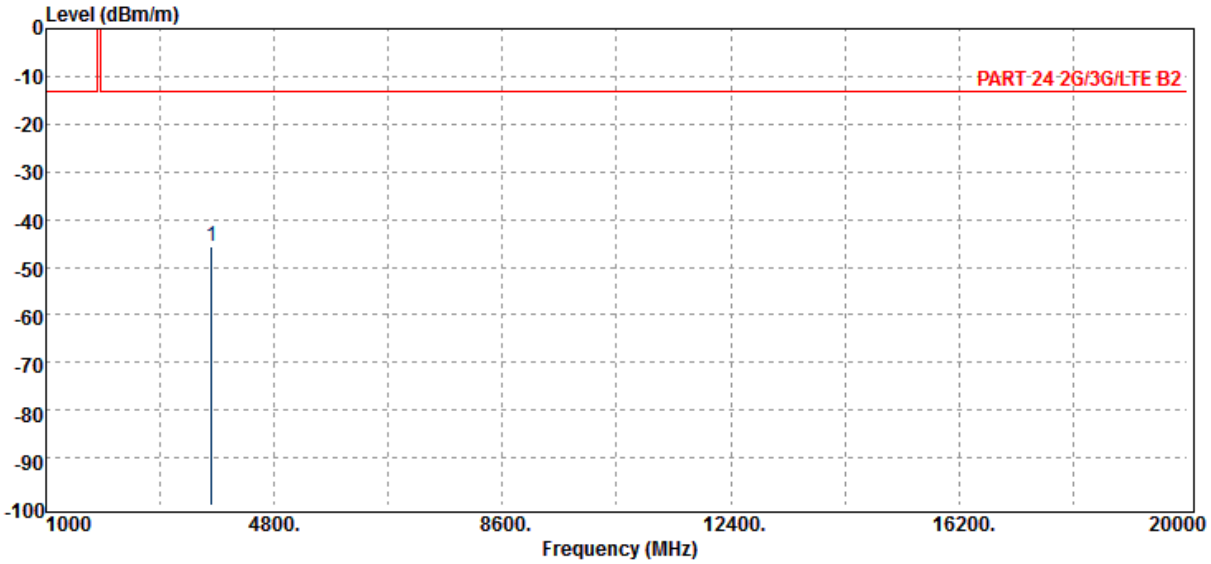
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-45.79	-47.24	8.46	-7.02	-13.00	-32.79

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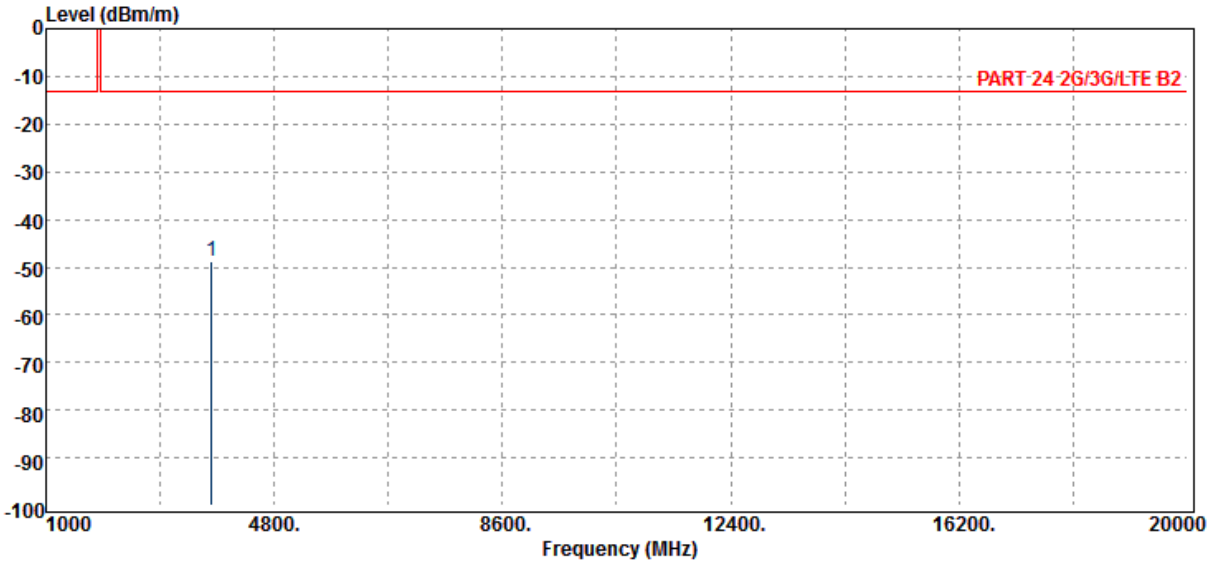
ARFCN	:CH 9400	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-48.65	-50.09	8.46	-7.02	-13.00	-35.65

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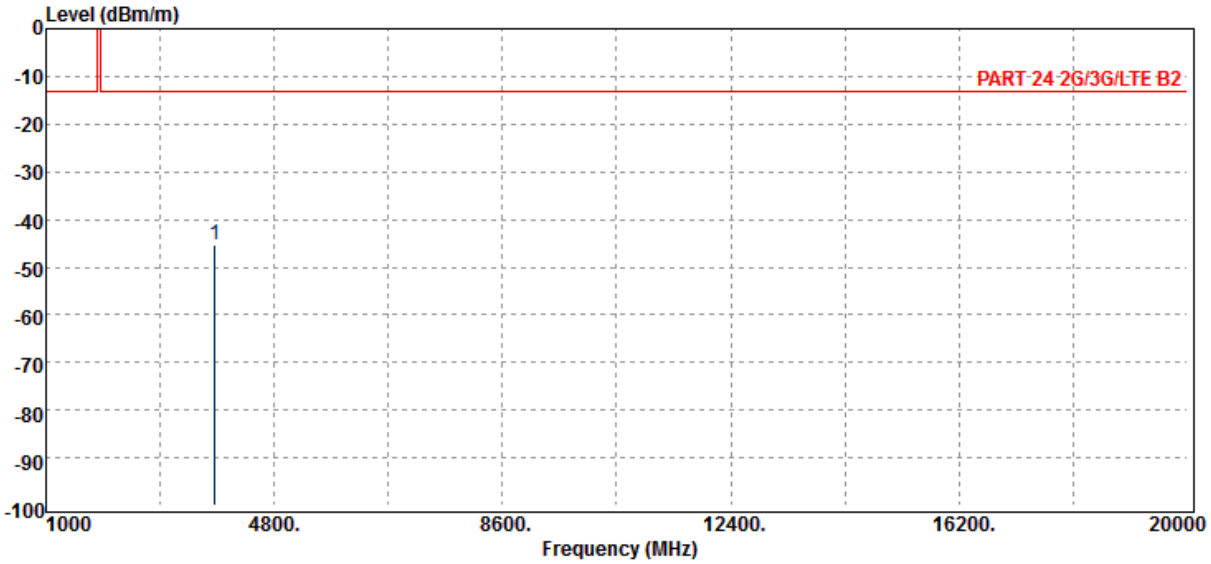
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-45.21	-46.65	8.49	-7.05	-13.00	-32.21

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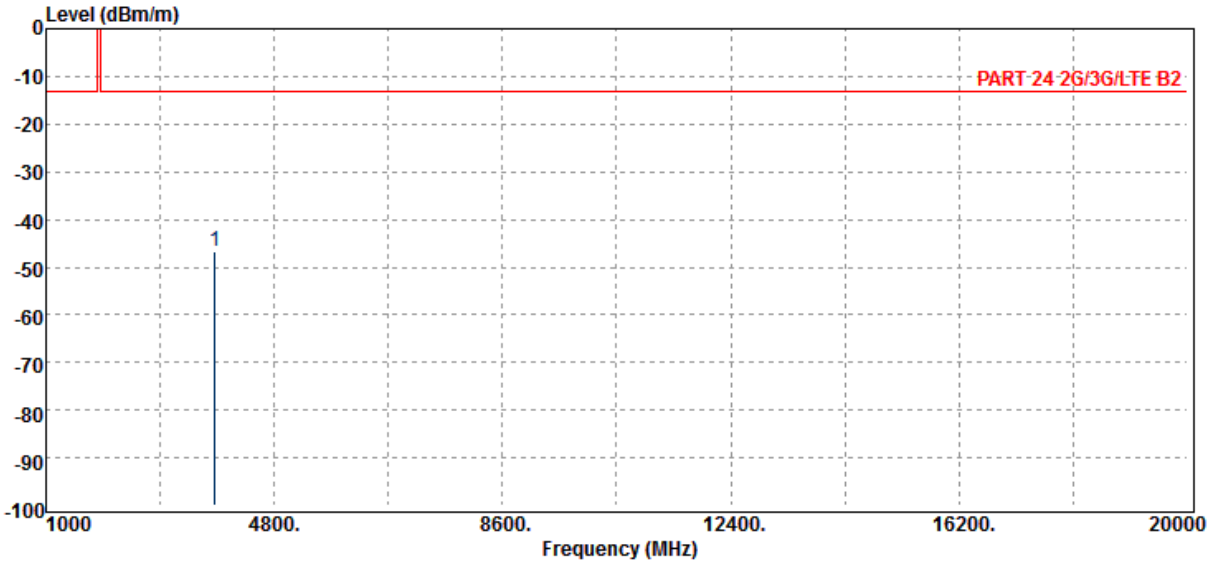
ARFCN	:CH 9538	Test Date	:2015-03-27
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-46.58	-48.02	8.49	-7.05	-13.00	-33.58

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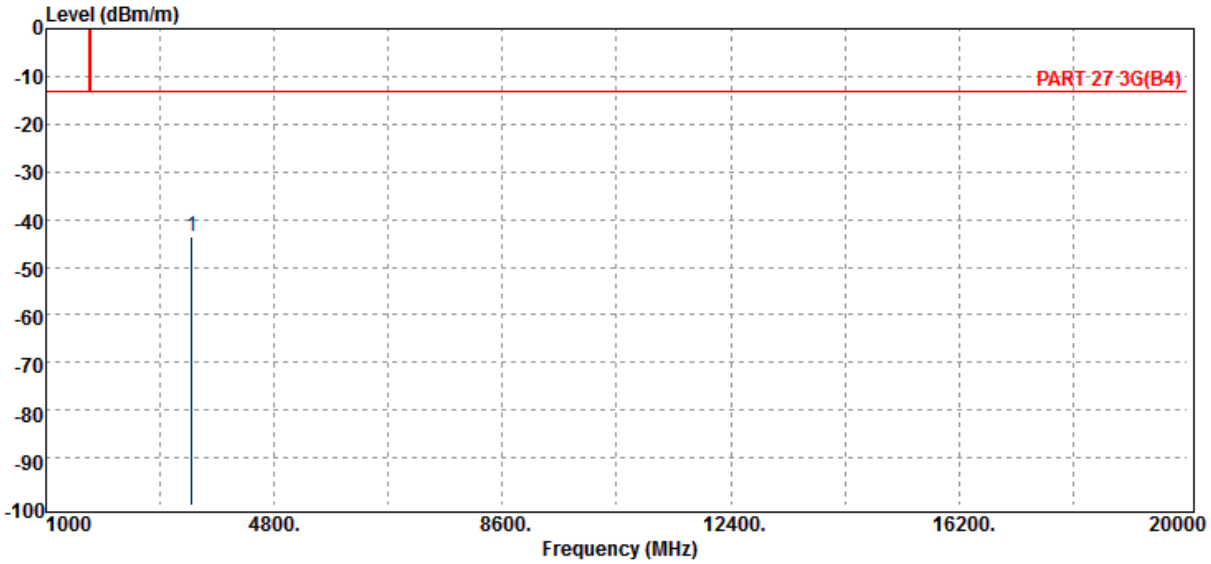
Radiated Spurious Emission Measurement Result: HSDPA IV Mode

ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-43.47	-45.01	8.09	-6.54	-13.00	-30.47

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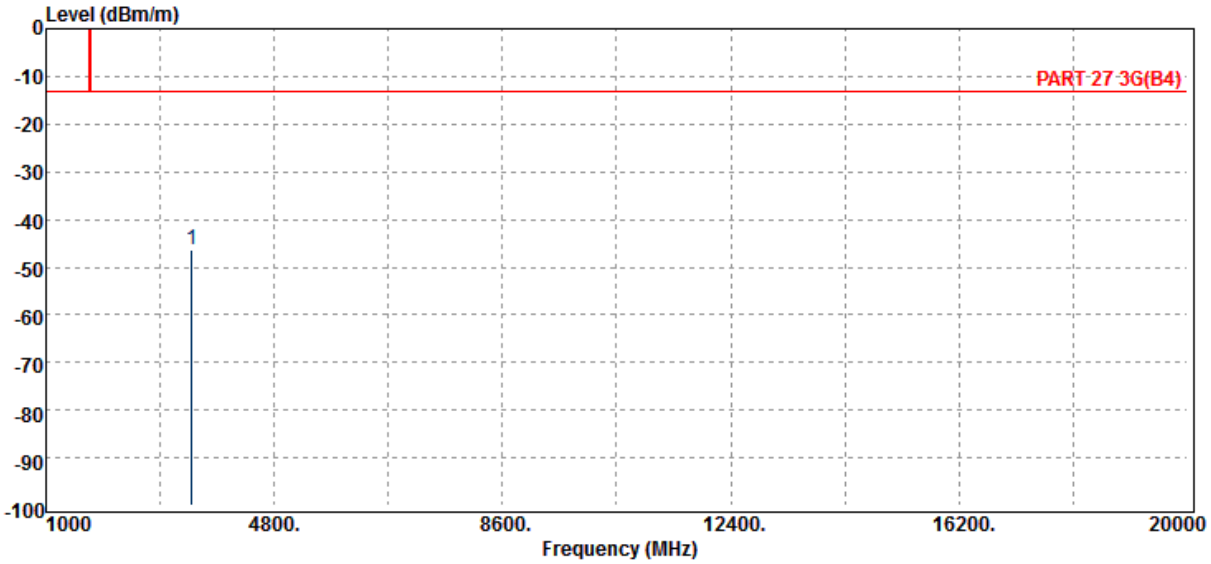
ARFCN	:CH 1312	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-46.26	-47.81	8.09	-6.54	-13.00	-33.26

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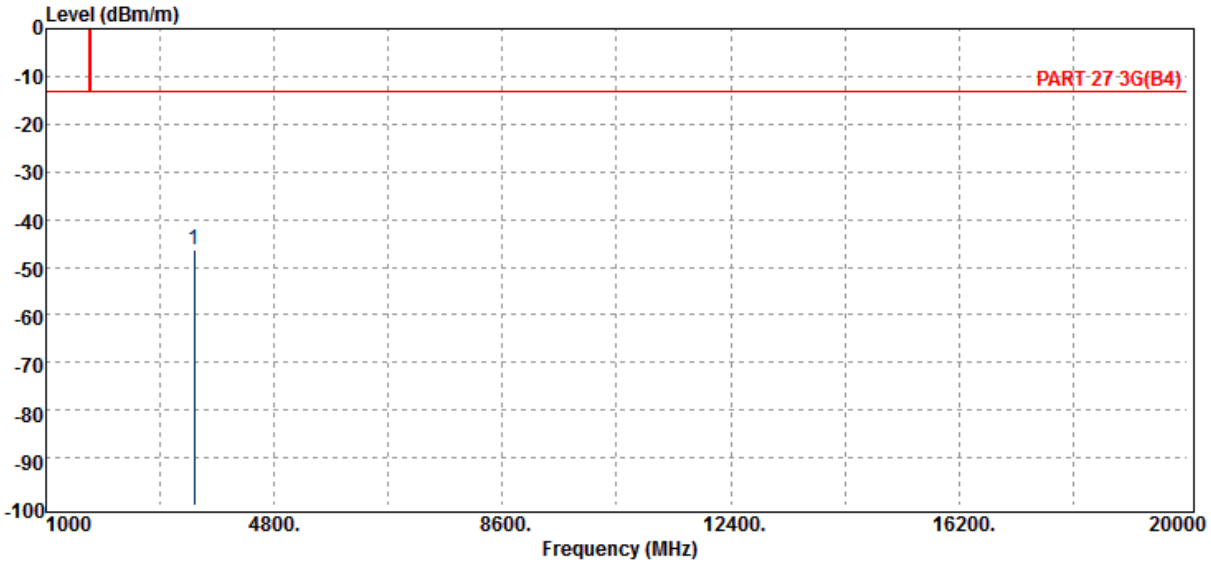
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-46.50	-48.17	8.20	-6.53	-13.00	-33.50

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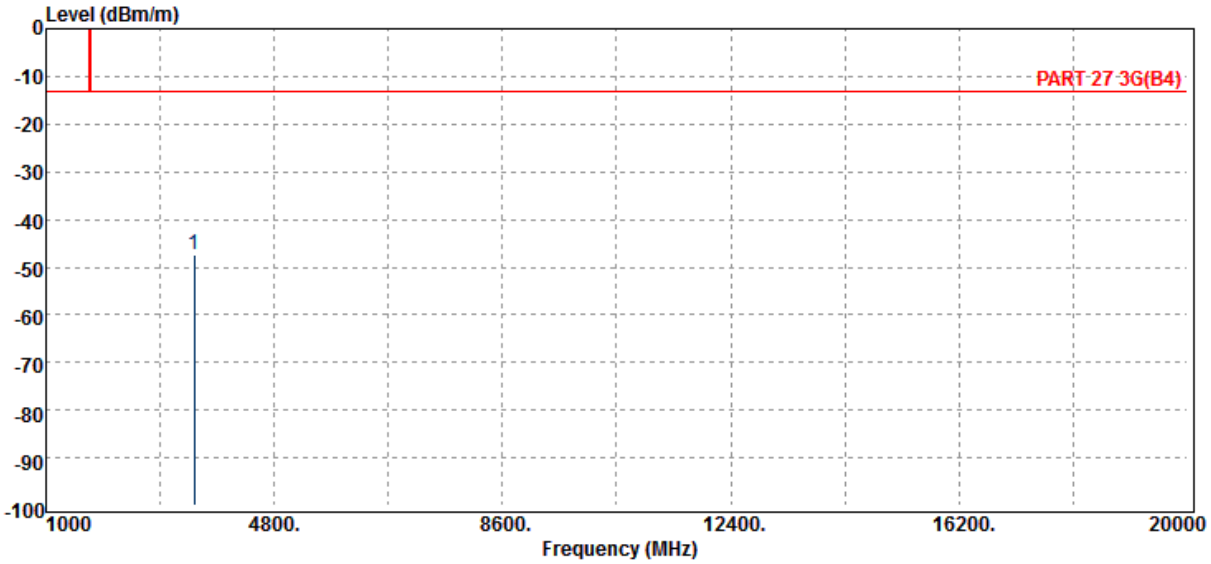
ARFCN	:CH 1413	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-47.36	-49.03	8.20	-6.53	-13.00	-34.36

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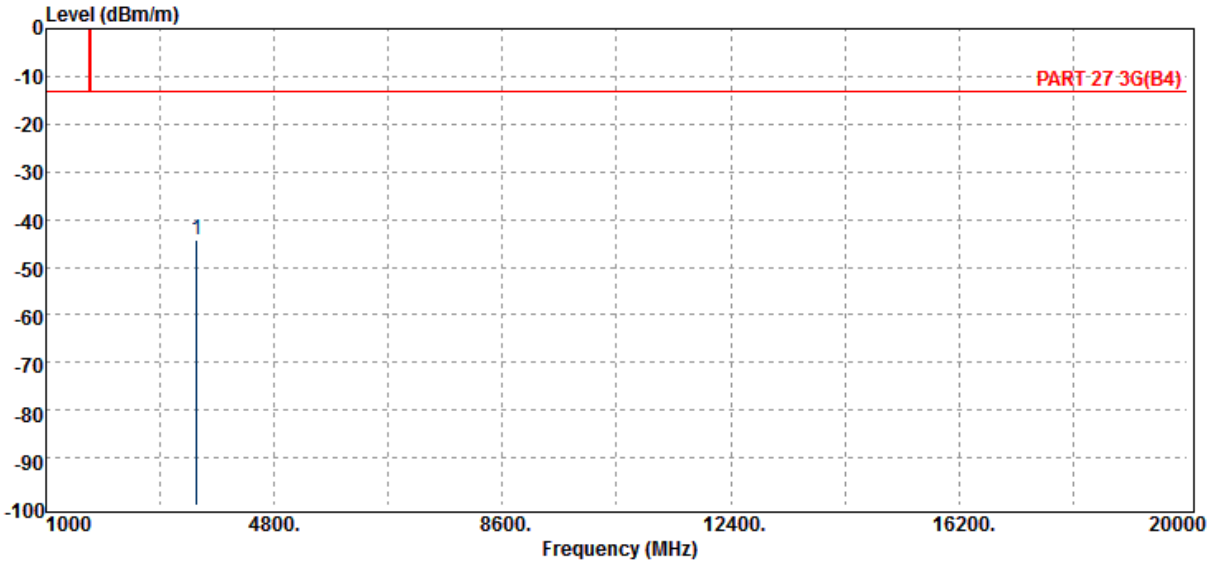
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-44.16	-45.79	8.30	-6.68	-13.00	-31.16

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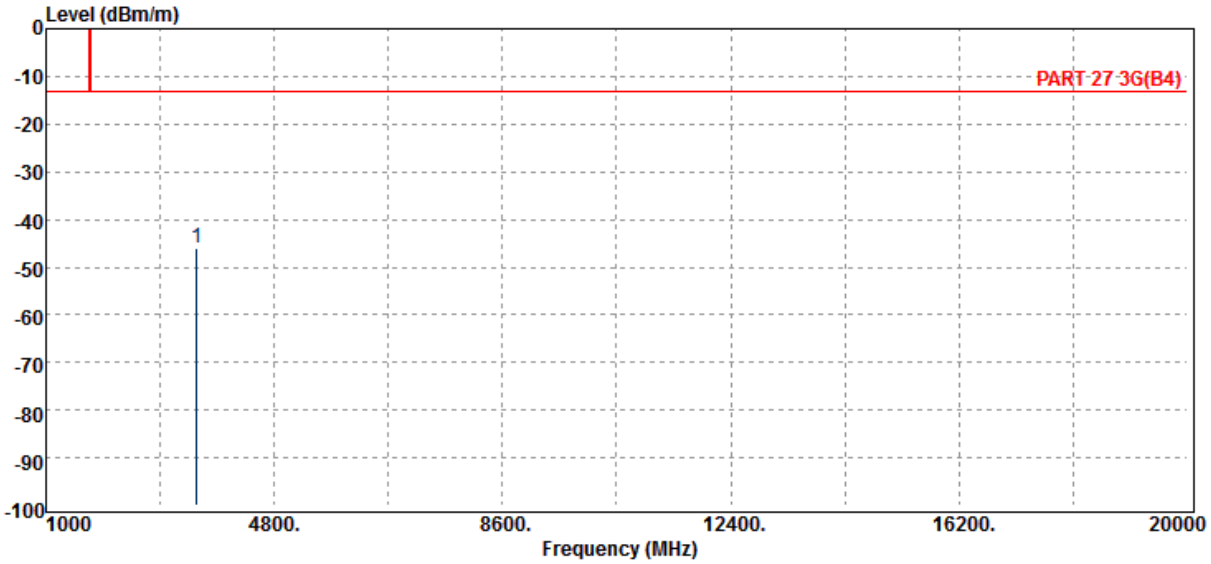
ARFCN	:CH 1513	Test Date	:2015-03-27
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-46.17	-47.79	8.30	-6.68	-13.00	-33.17

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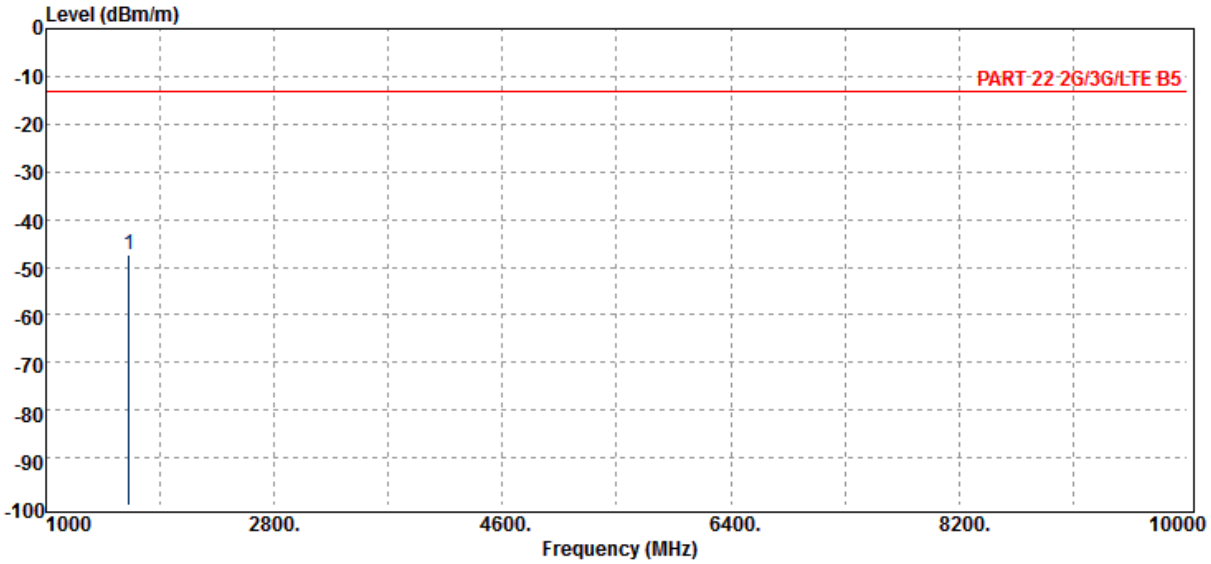
Radiated Spurious Emission Measurement Result: HSDPA V Mode

ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-47.36	-46.19	3.05	-4.22	-13.00	-34.36

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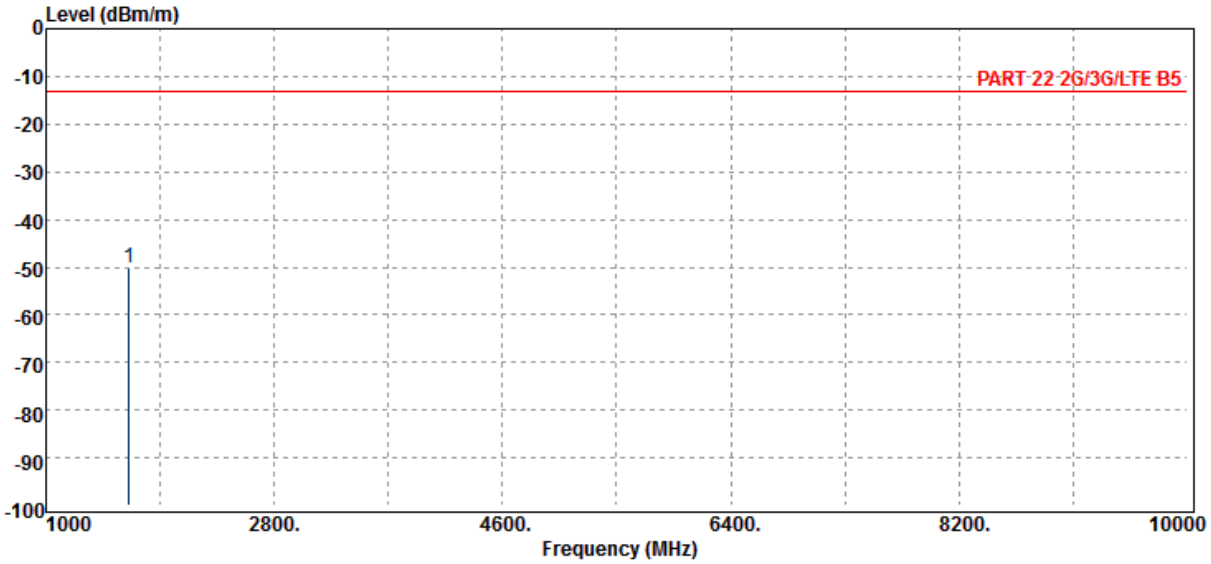
ARFCN	:CH 4132	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-50.21	-49.03	3.05	-4.22	-13.00	-37.21

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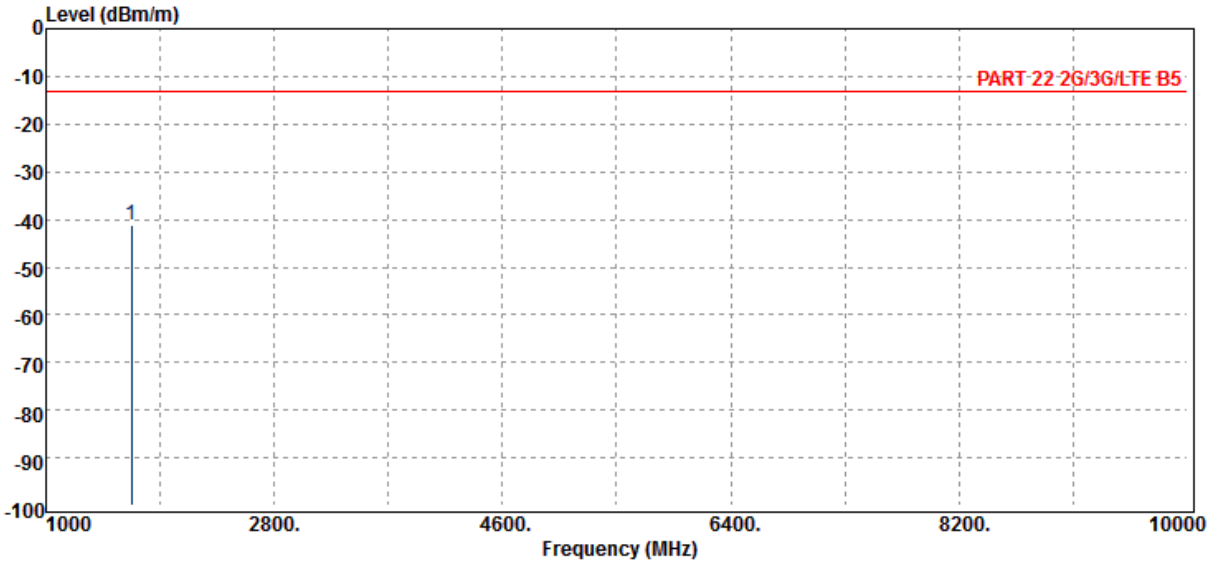
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-41.32	-40.07	3.01	-4.26	-13.00	-28.32

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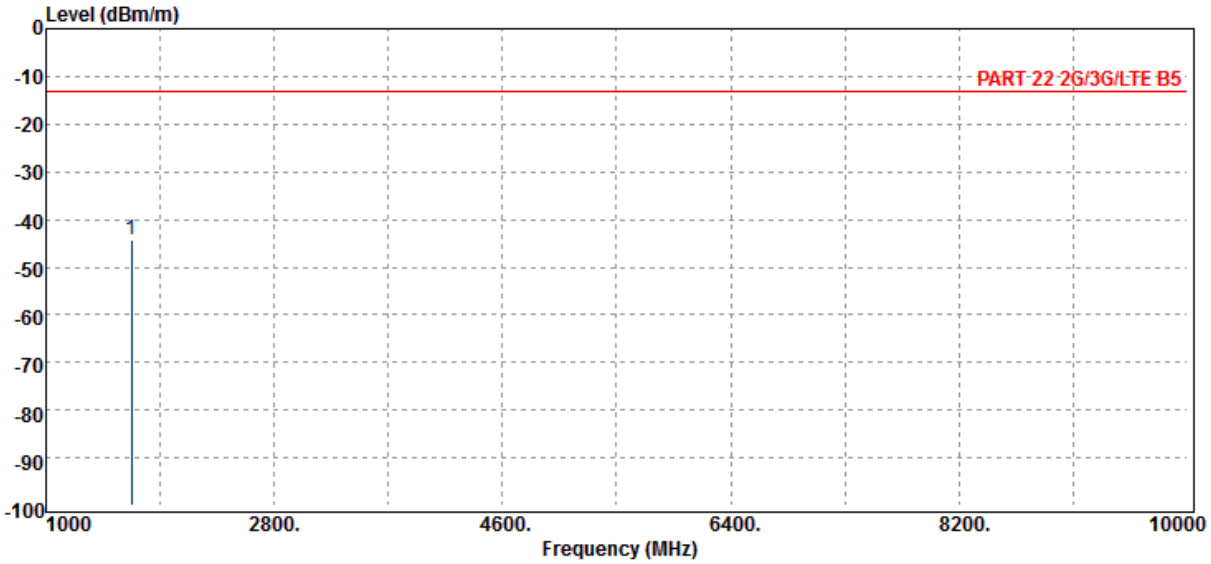
ARFCN	:CH 4183	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-44.27	-43.02	3.01	-4.26	-13.00	-31.27

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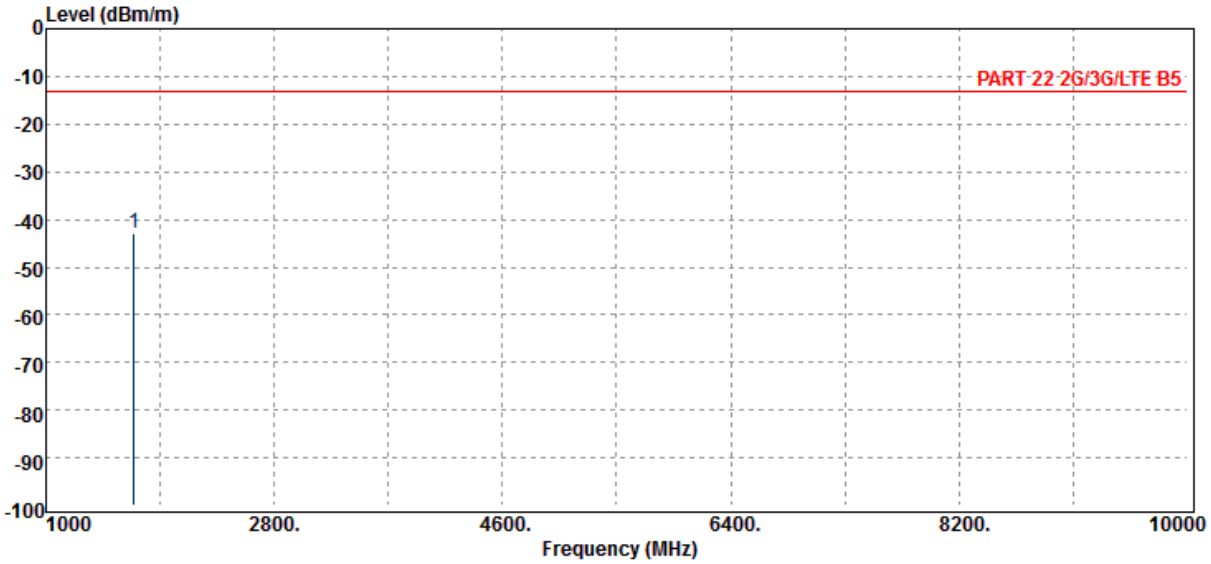
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-43.03	-41.73	2.97	-4.27	-13.00	-30.03

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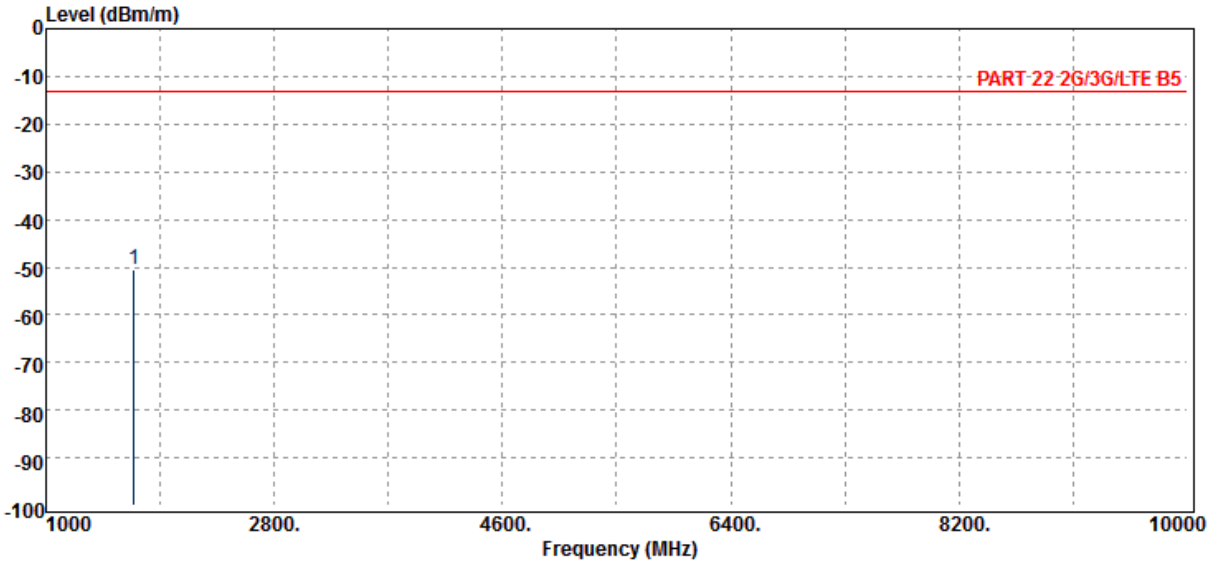
ARFCN	:CH 4233	Test Date	:2015-03-27
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-50.56	-49.26	2.97	-4.27	-13.00	-37.56

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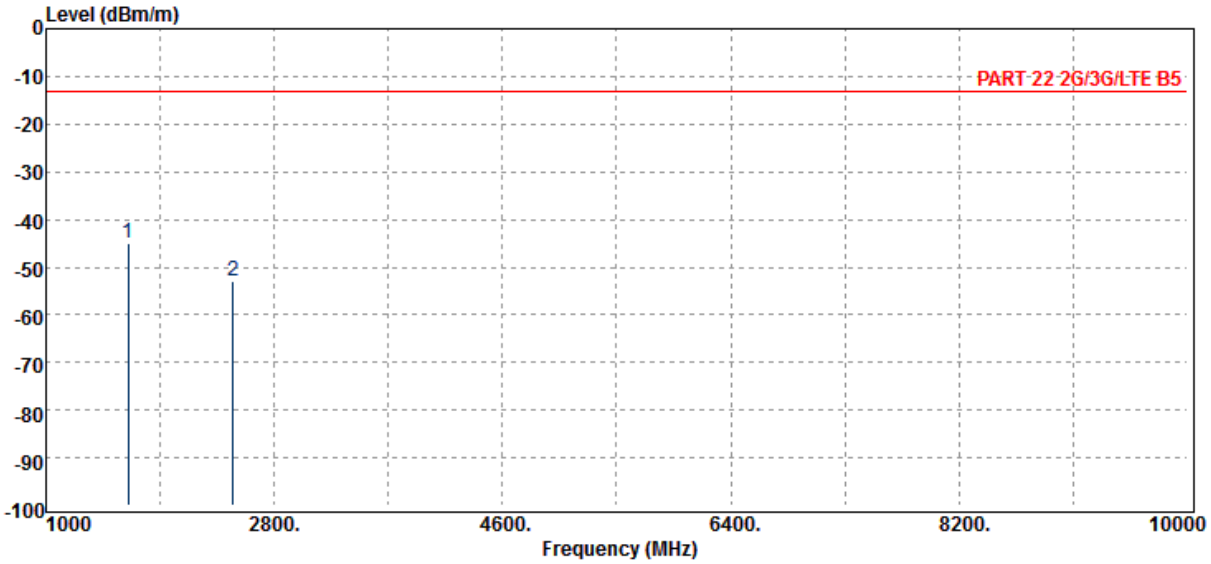
Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-45.14	-43.98	3.05	-4.21	-13.00	-32.14
2474.10	H	-53.04	-51.31	3.59	-5.32	-13.00	-40.04

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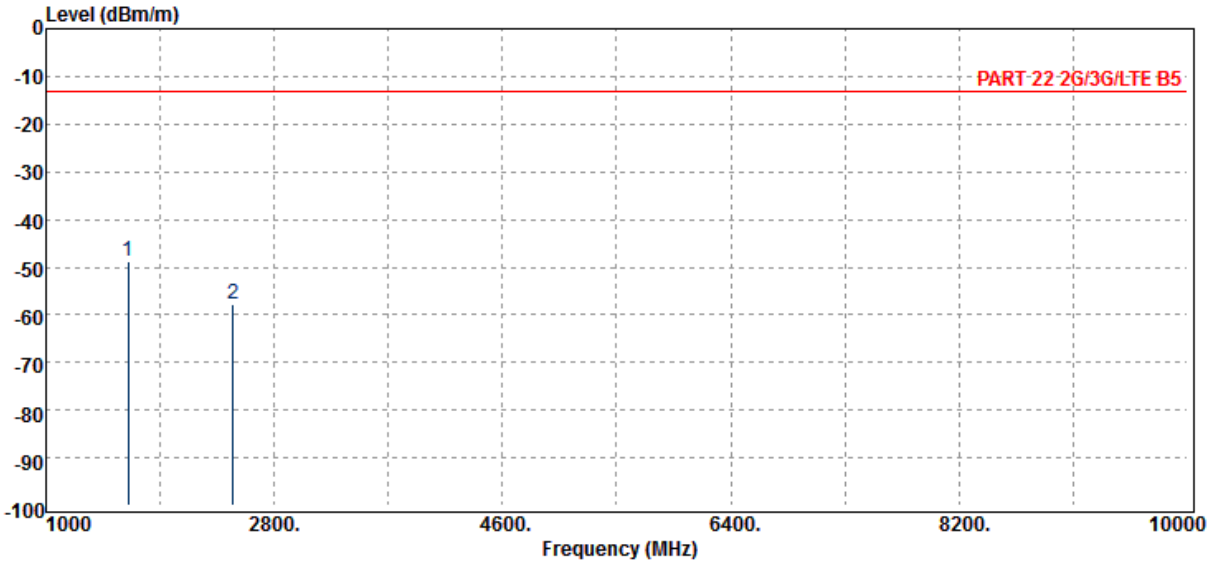
ARFCN	:CH 1013	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-48.71	-47.55	3.05	-4.21	-13.00	-35.71
2474.10	H	-57.61	-55.89	3.59	-5.32	-13.00	-44.61

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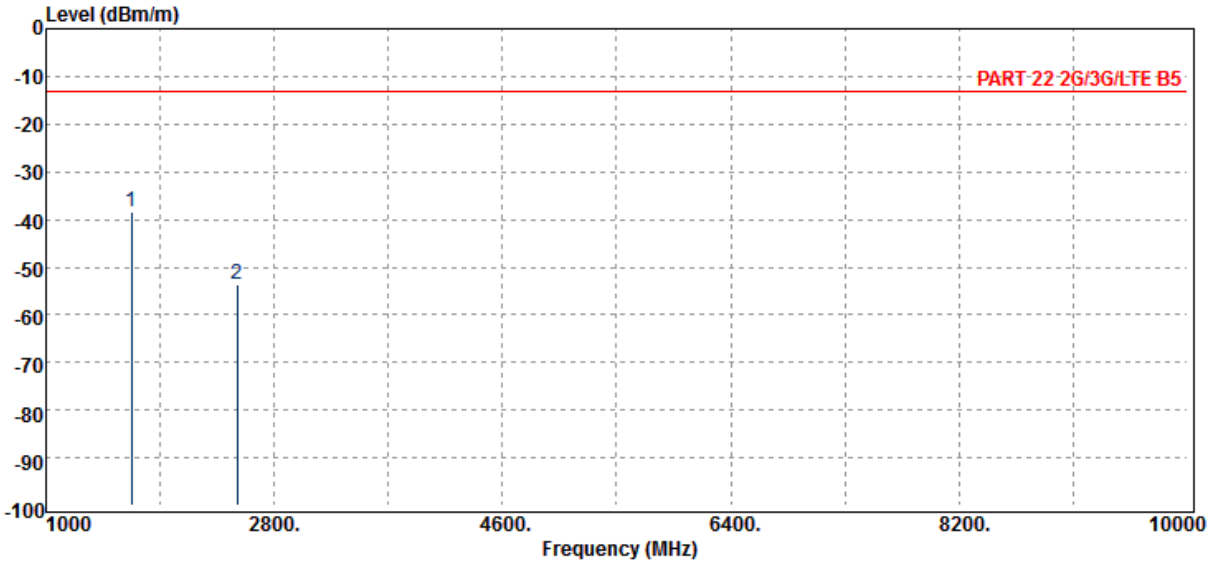
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	H	-38.53	-37.28	3.01	-4.26	-13.00	-25.53
2509.56	H	-53.46	-51.78	3.67	-5.35	-13.00	-40.46

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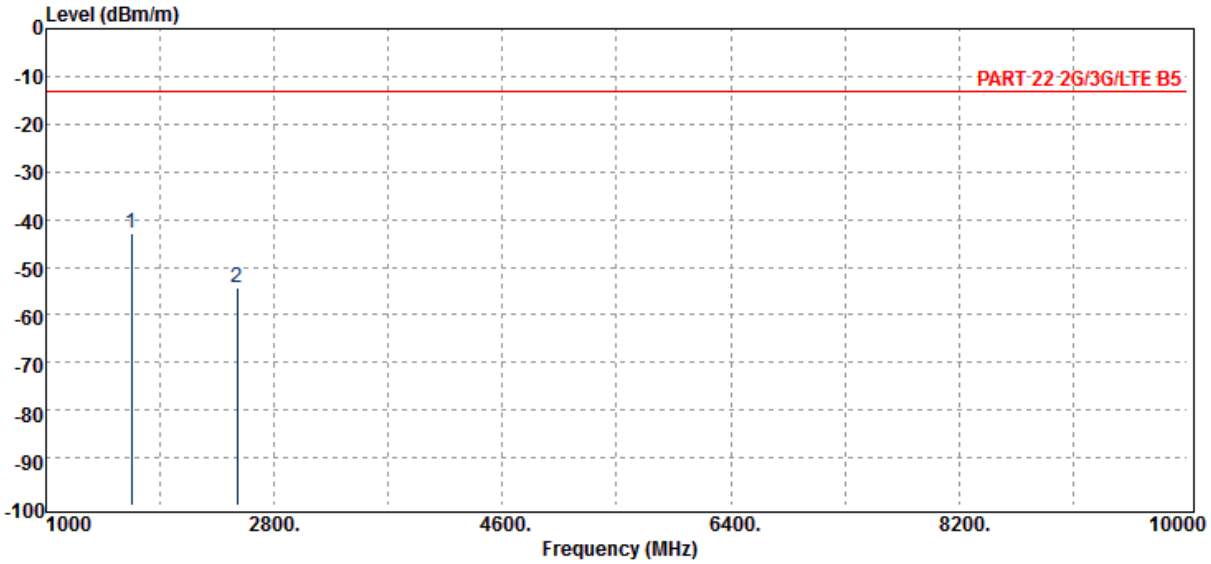
ARFCN	:CH 384	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	H	-42.90	-41.66	3.01	-4.26	-13.00	-29.90
2509.56	H	-54.25	-52.57	3.67	-5.35	-13.00	-41.25

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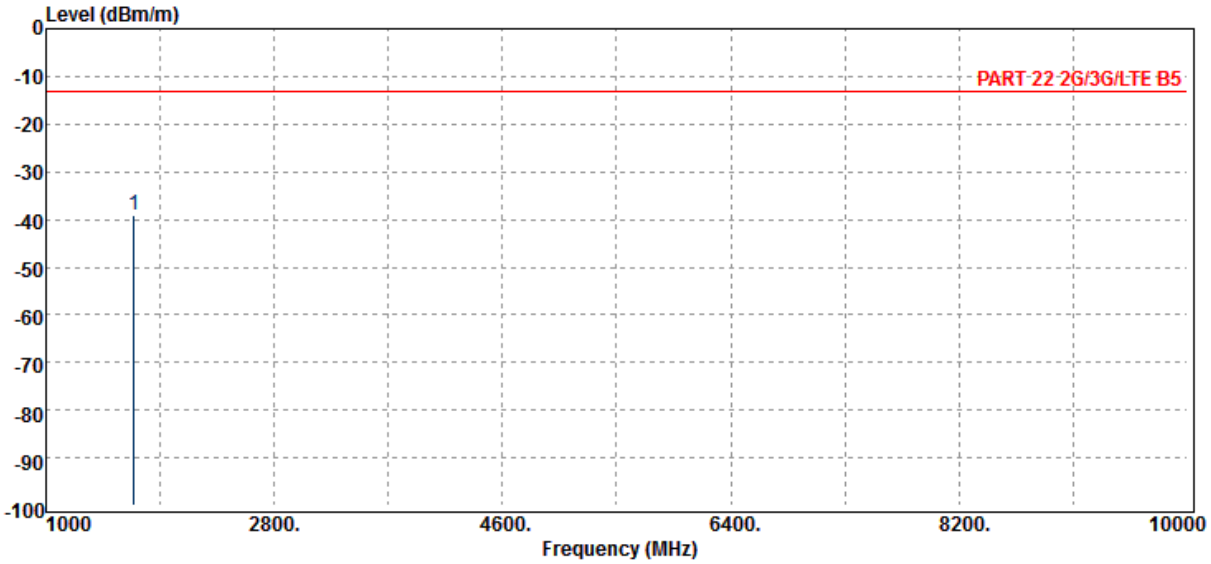
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.62	H	-39.05	-37.74	2.96	-4.28	-13.00	-26.05

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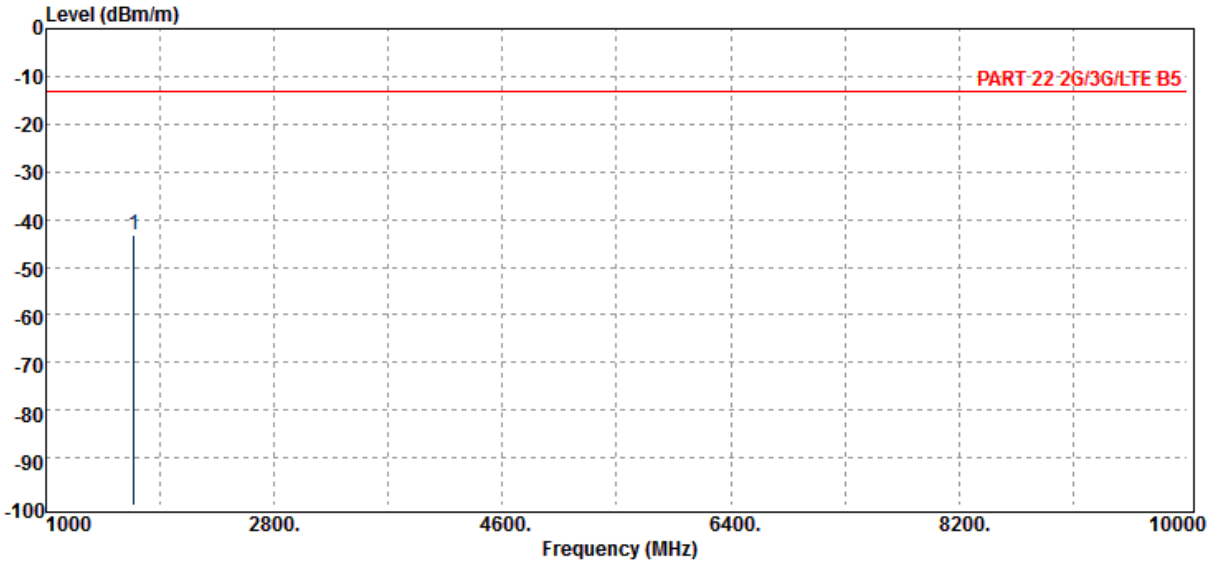
ARFCN	:CH 777	Test Date	:2015-03-27
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.62	H	-43.37	-42.06	2.96	-4.28	-13.00	-30.37

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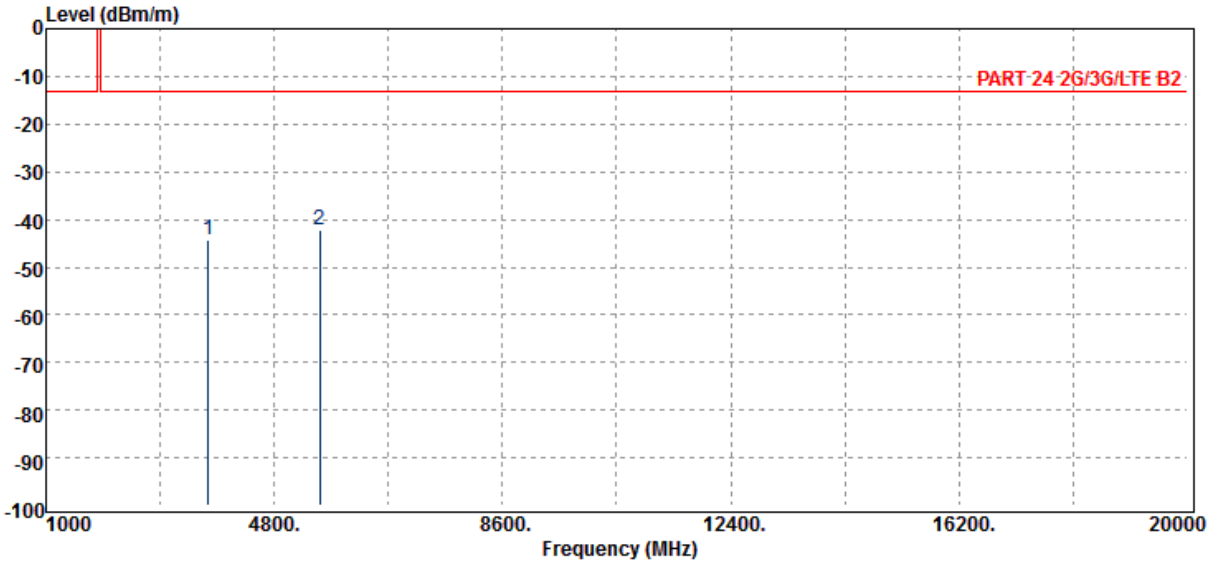
Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	H	-44.12	-45.66	8.43	-6.88	-13.00	-31.12
5553.75	H	-42.36	-43.92	10.10	-8.54	-13.00	-29.36

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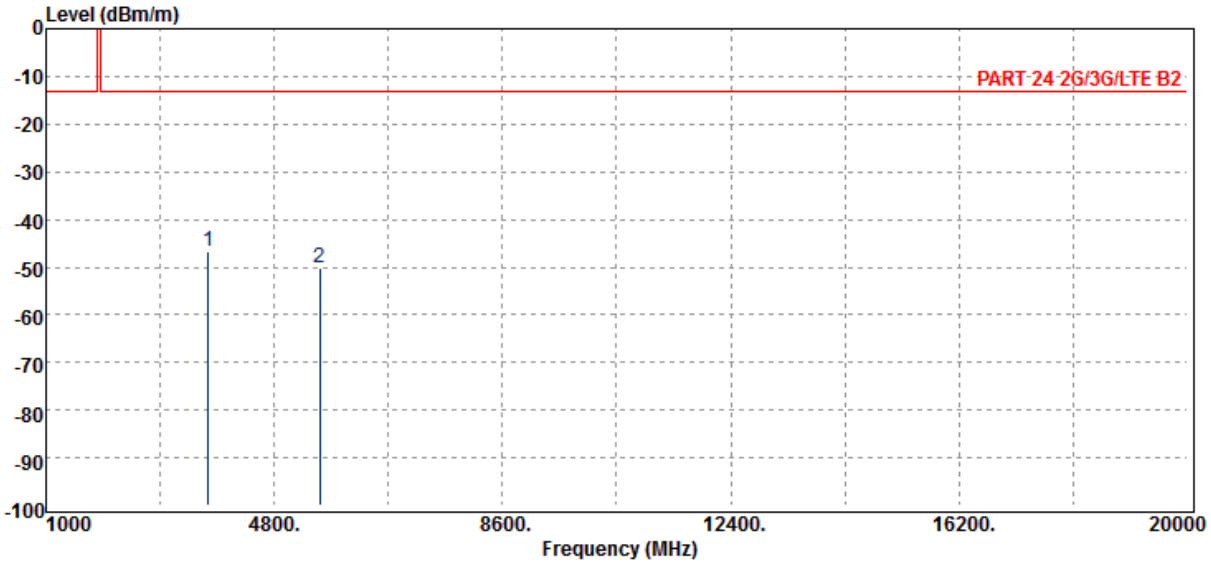
ARFCN	:CH 25	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	H	-46.73	-48.28	8.43	-6.88	-13.00	-33.73
5553.75	H	-50.23	-51.79	10.10	-8.54	-13.00	-37.23

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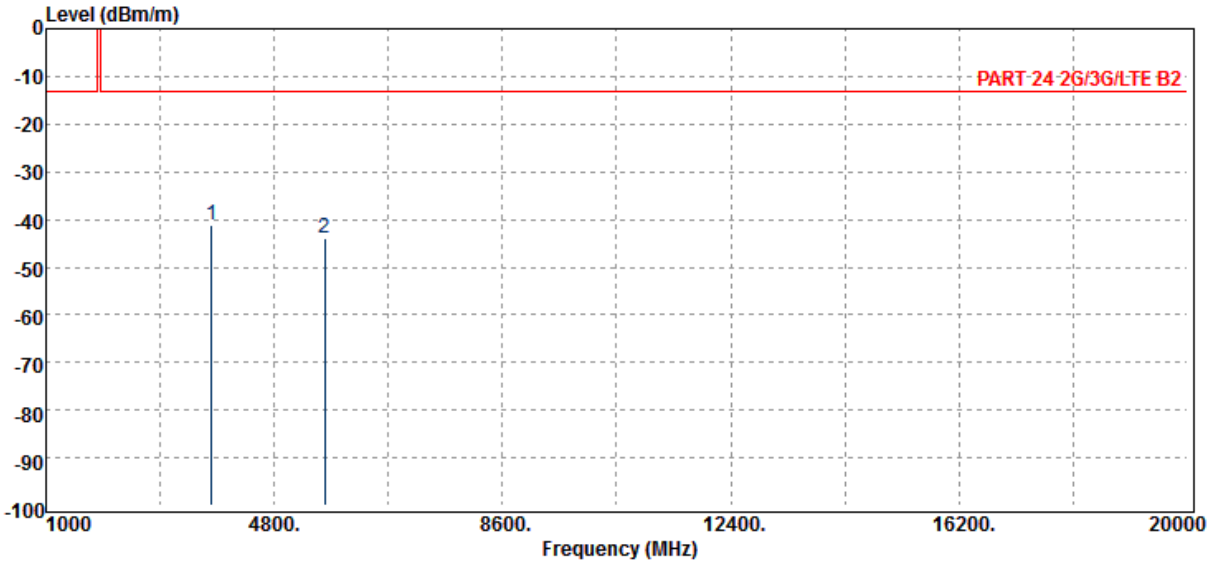
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-41.26	-42.70	8.46	-7.02	-13.00	-28.26
5640.00	H	-44.00	-45.52	10.11	-8.59	-13.00	-31.00

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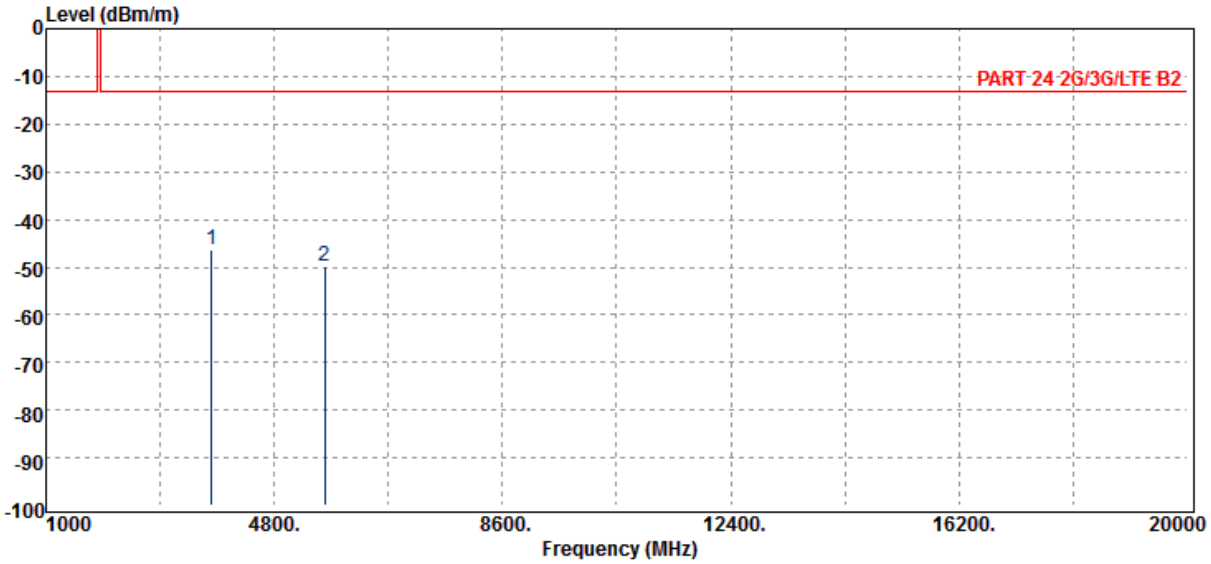
ARFCN	:CH 600	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-46.49	-47.93	8.46	-7.02	-13.00	-33.49
5640.00	H	-49.95	-51.47	10.11	-8.59	-13.00	-36.95

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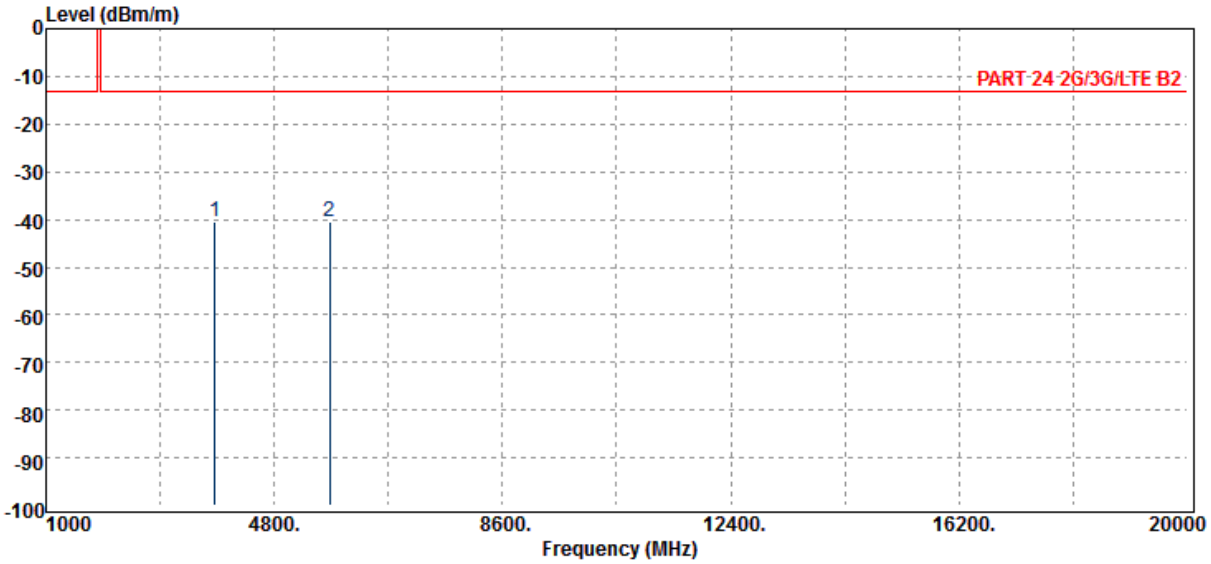
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	H	-40.54	-41.98	8.50	-7.05	-13.00	-27.54
5726.25	H	-40.63	-42.11	10.12	-8.63	-13.00	-27.63

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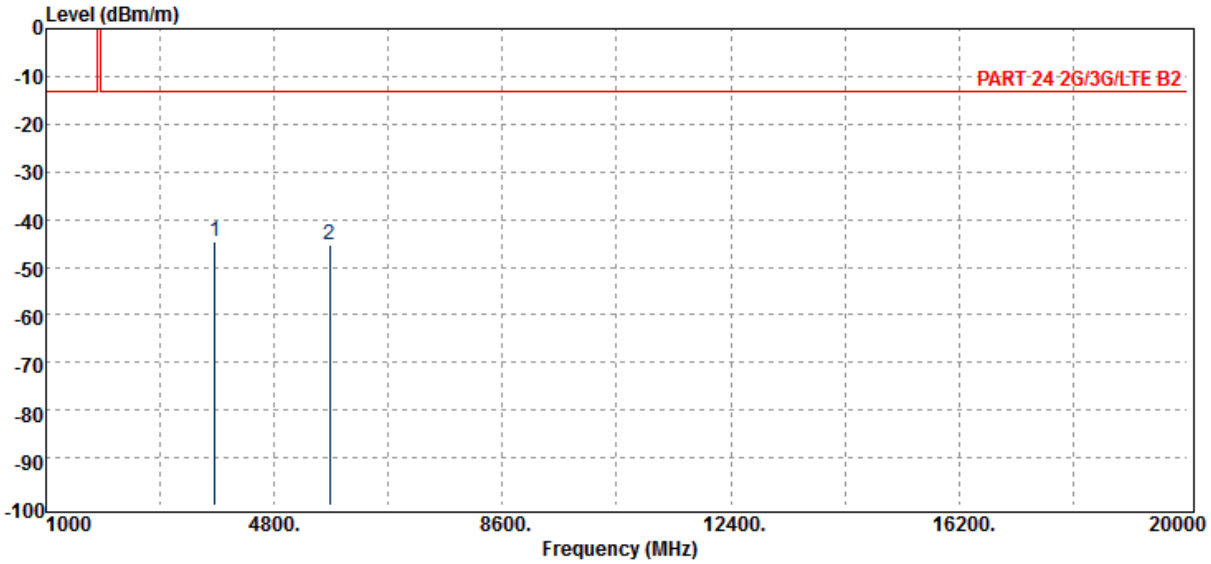
ARFCN	:CH 1175	Test Date	:2015-03-27
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	H	-44.66	-46.10	8.50	-7.05	-13.00	-31.66
5726.25	H	-45.34	-46.82	10.12	-8.63	-13.00	-32.34

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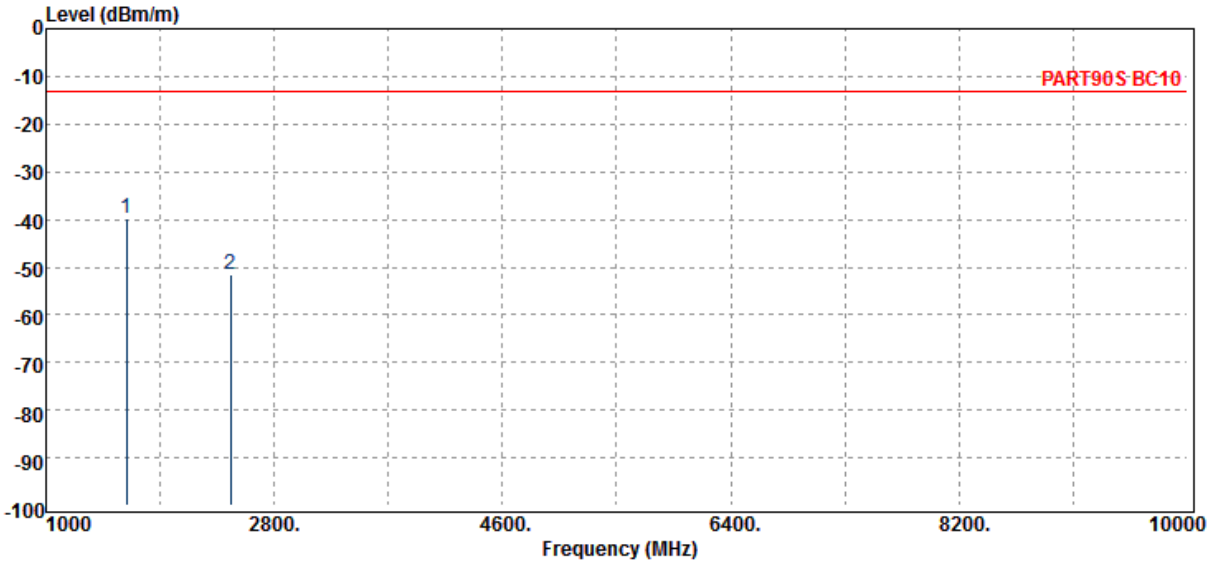
Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1635.80	H	-39.77	-38.66	3.08	-4.19	-13.00	-26.77
2453.70	H	-51.63	-49.87	3.55	-5.30	-13.00	-38.63

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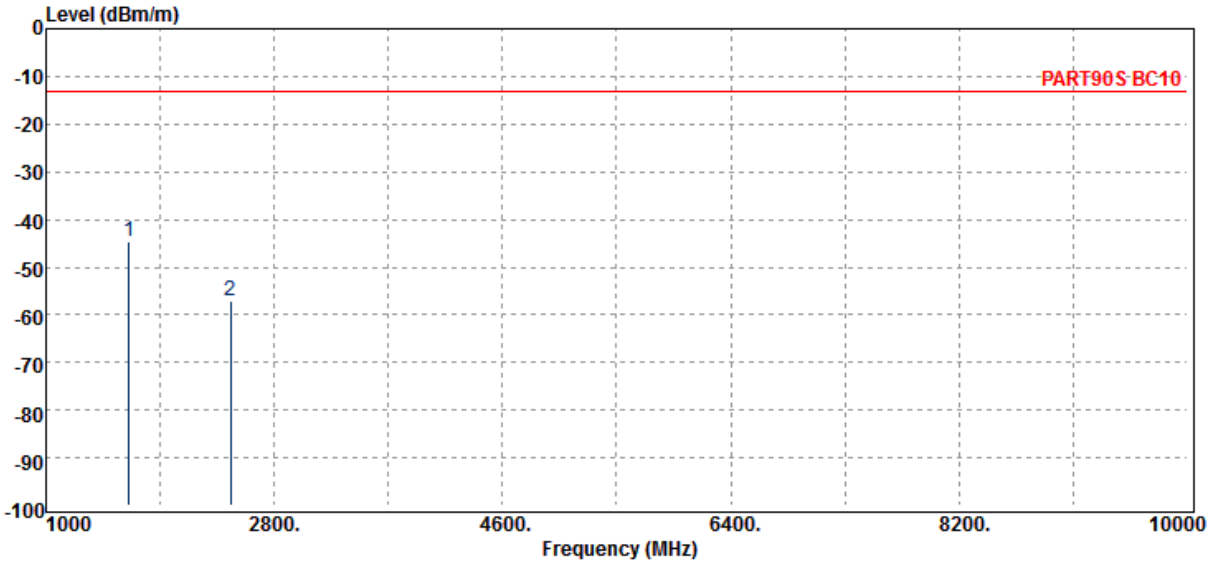
ARFCN	:CH 476	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1653.80	H	-44.52	-43.34	3.04	-4.22	-13.00	-31.52
2453.70	H	-57.24	-55.49	3.55	-5.30	-13.00	-44.24

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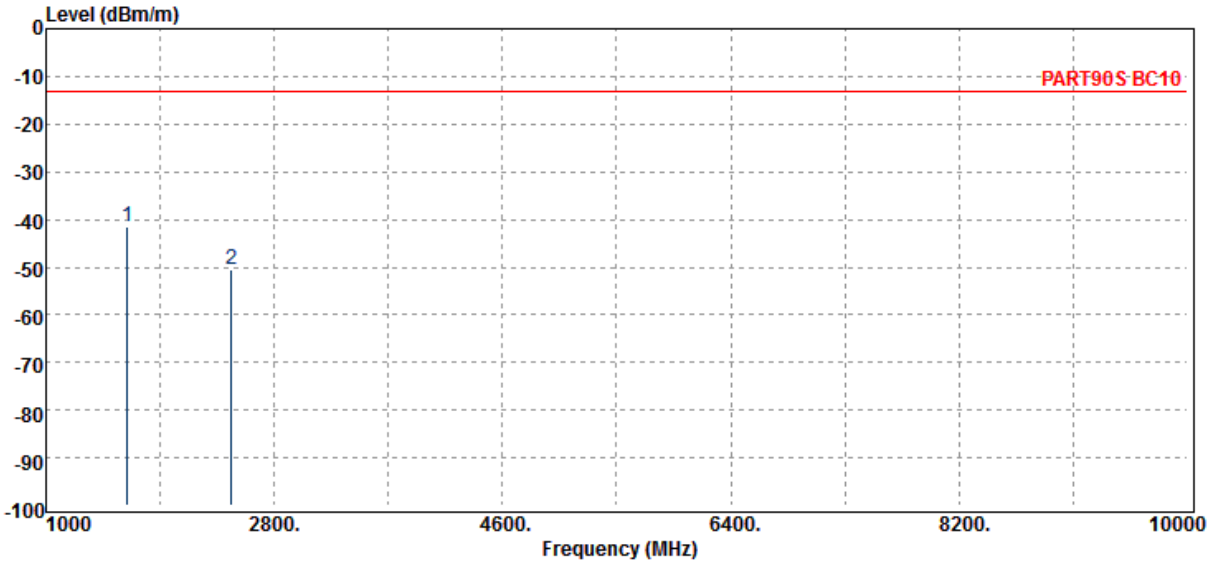
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-41.61	-40.48	3.07	-4.20	-13.00	-28.61
2461.50	H	-50.44	-48.70	3.57	-5.31	-13.00	-37.44

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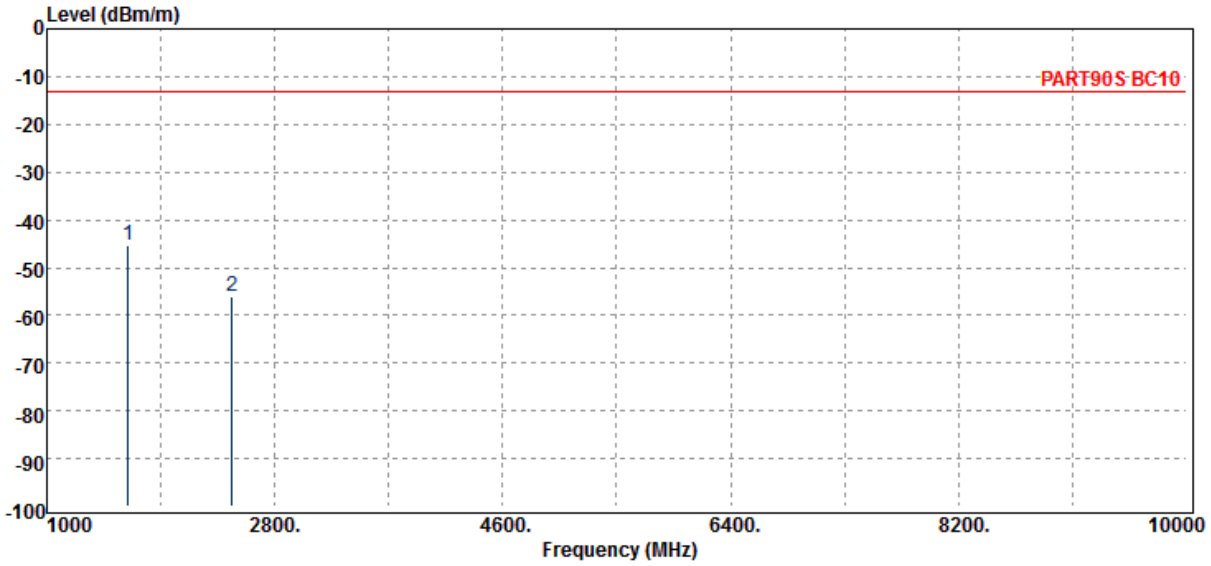
ARFCN	:CH 580	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-45.23	-44.10	3.07	-4.20	-13.00	-32.23
2461.50	H	-55.98	-54.24	3.57	-5.31	-13.00	-42.98

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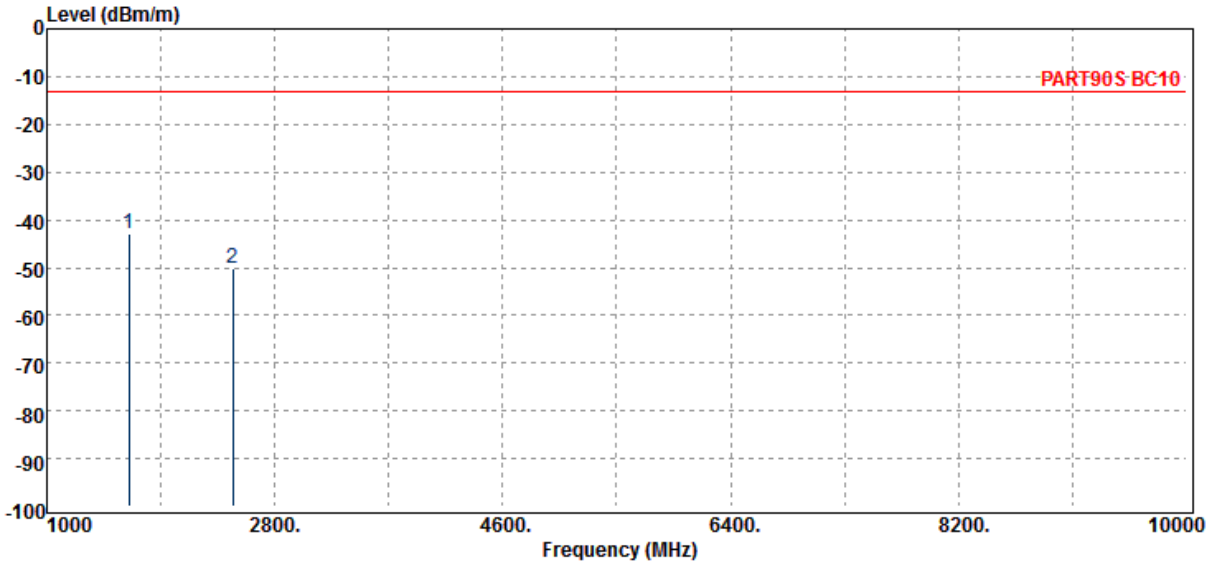
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1646.20	H	-42.74	-41.59	3.06	-4.21	-13.00	-29.74
2469.30	H	-50.25	-48.52	3.58	-5.32	-13.00	-37.25

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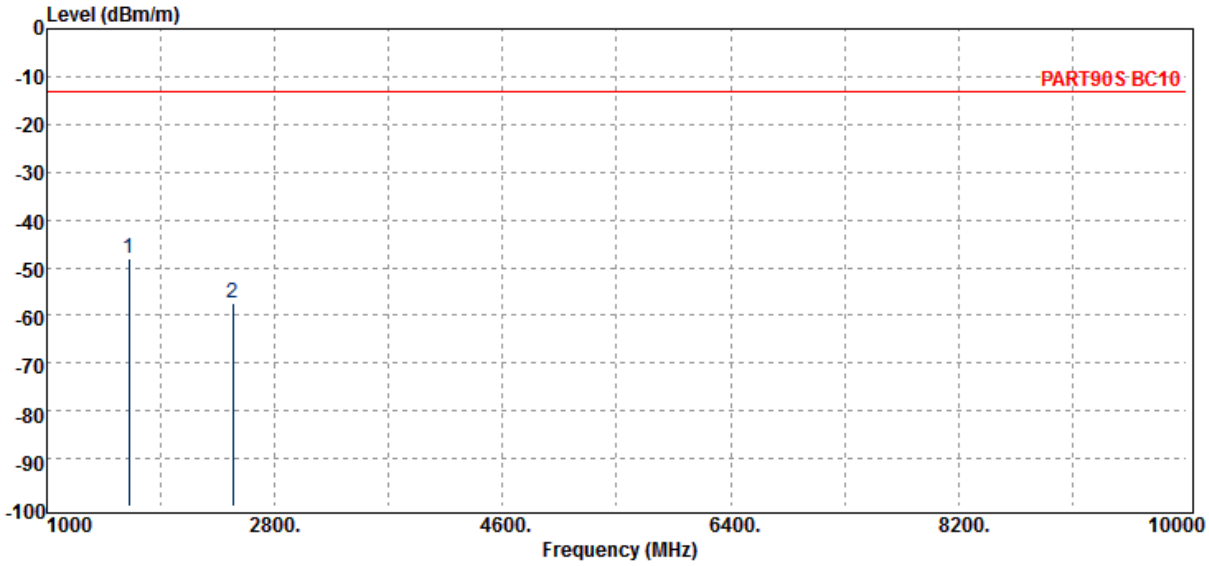
ARFCN	:CH 684	Test Date	:2015-03-27
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1646.20	H	-48.07	-46.92	3.06	-4.21	-13.00	-35.07
2469.30	H	-57.39	-55.65	3.58	-5.32	-13.00	-44.39

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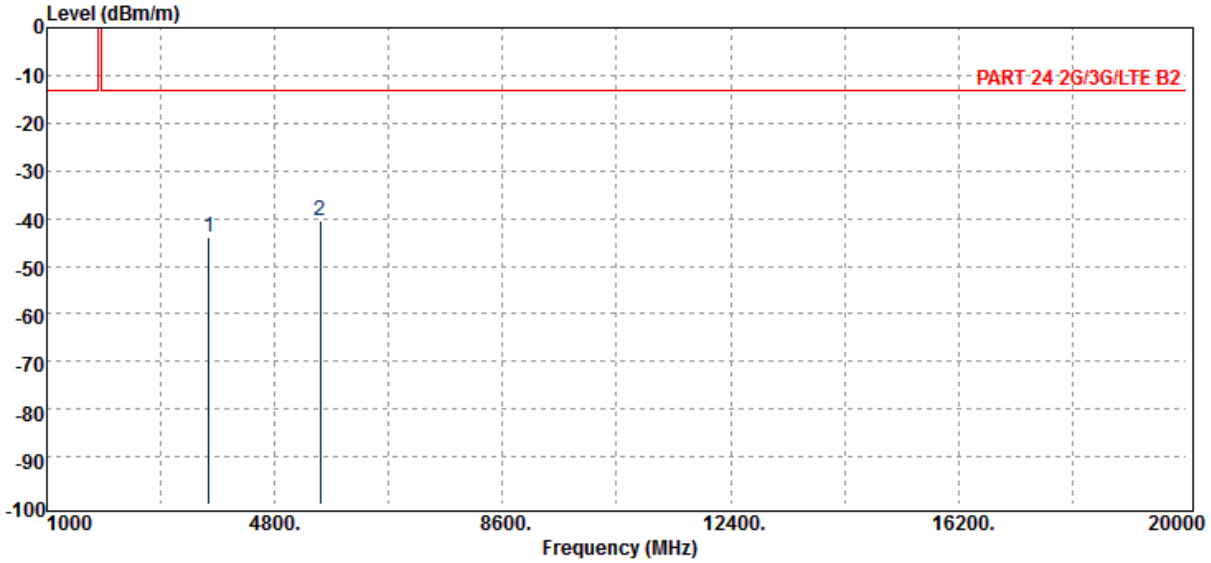
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

ARFCN	:CH 18607 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-43.97	-45.51	8.43	-6.88	-13.00	-30.97
5552.10	H	-40.47	-42.03	10.10	-8.55	-13.00	-27.47

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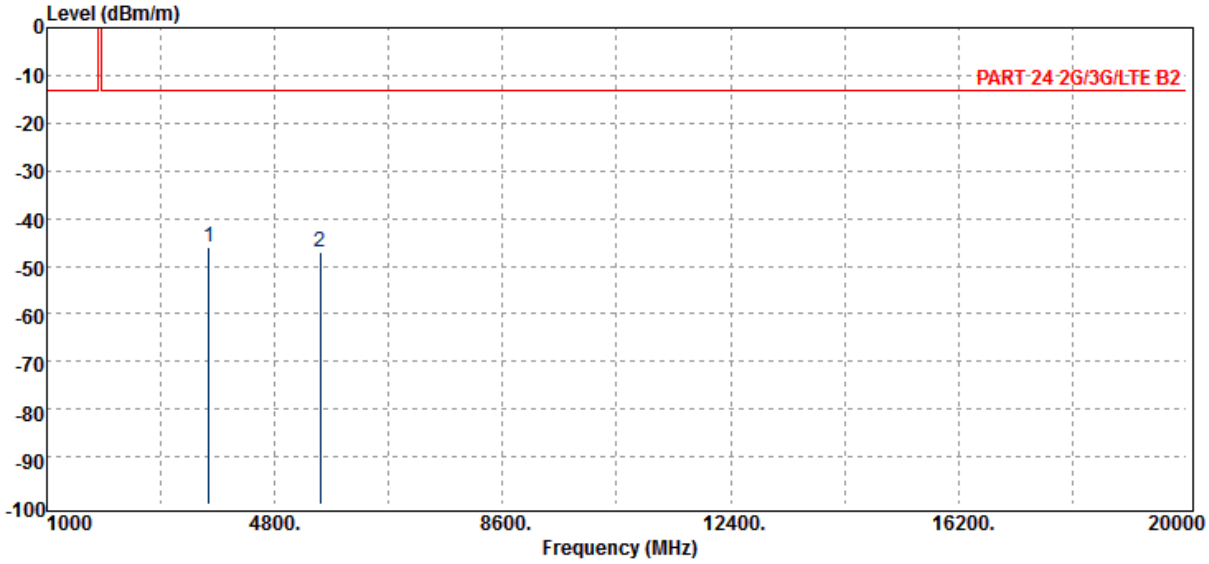
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-46.03	-47.57	8.43	-6.88	-13.00	-33.03
5552.10	H	-46.90	-48.45	10.10	-8.55	-13.00	-33.90

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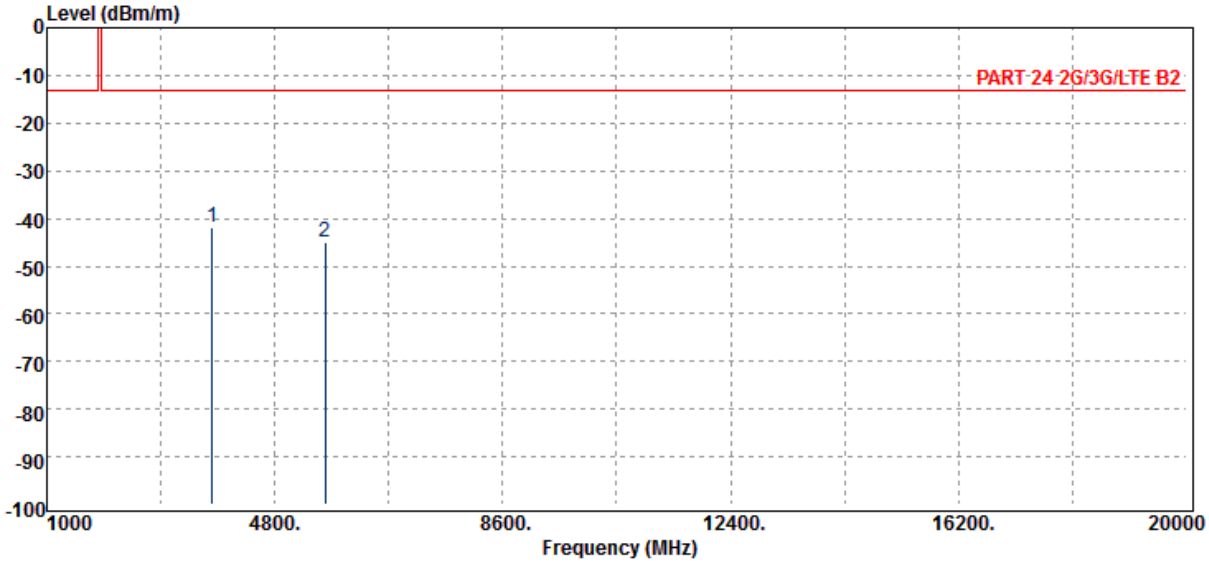
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-41.78	-43.22	8.46	-7.02	-13.00	-28.78
5640.00	H	-45.14	-46.66	10.11	-8.59	-13.00	-32.14

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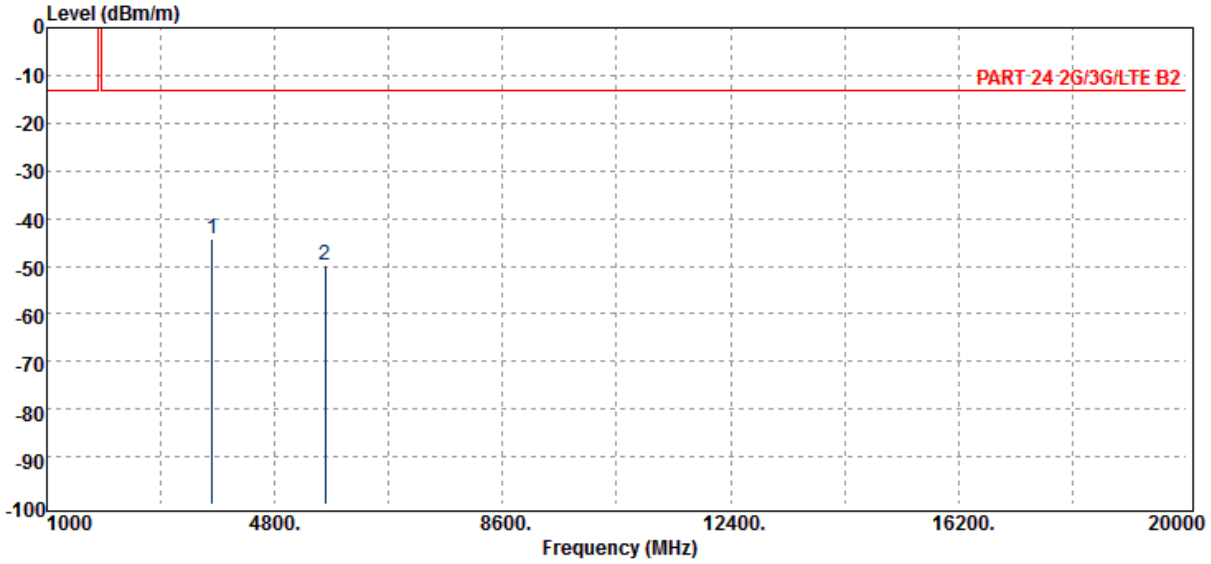
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-44.45	-45.89	8.46	-7.02	-13.00	-31.45
5640.00	H	-49.66	-51.18	10.11	-8.59	-13.00	-36.66

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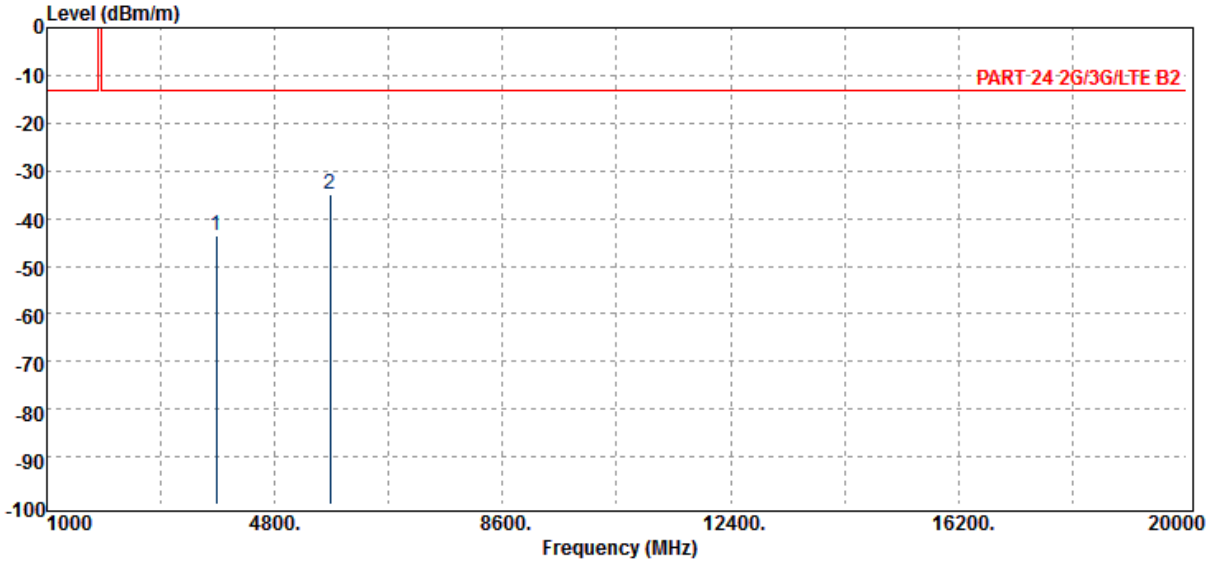
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-43.44	-44.88	8.50	-7.05	-13.00	-30.44
5727.90	H	-34.90	-36.38	10.12	-8.64	-13.00	-21.90

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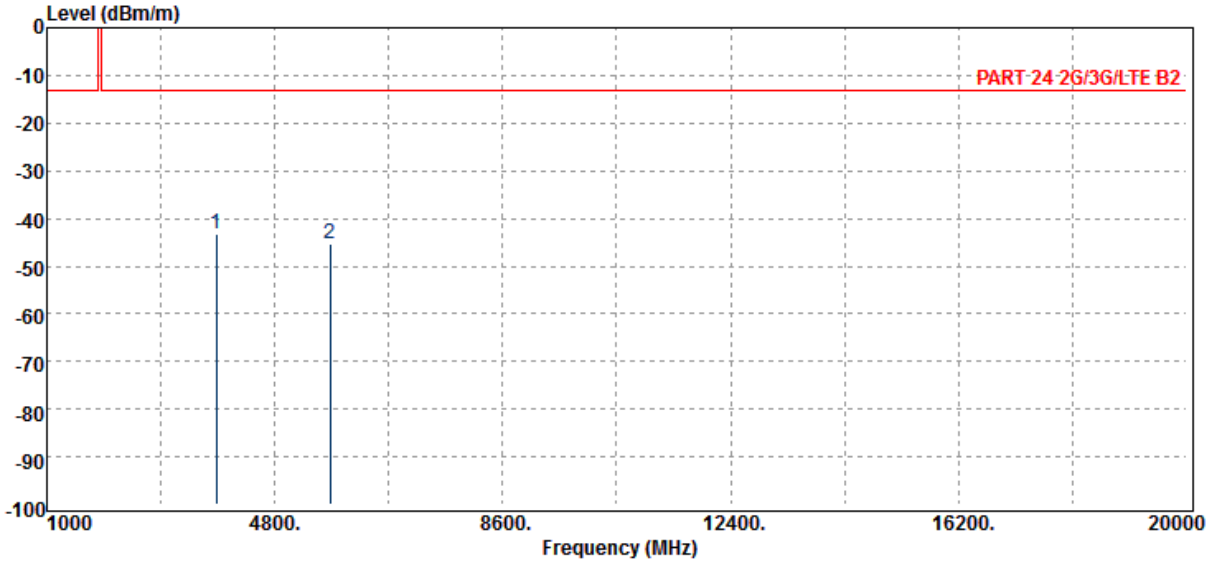
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-43.16	-44.60	8.50	-7.05	-13.00	-30.16
5727.90	H	-45.47	-46.95	10.12	-8.64	-13.00	-32.47

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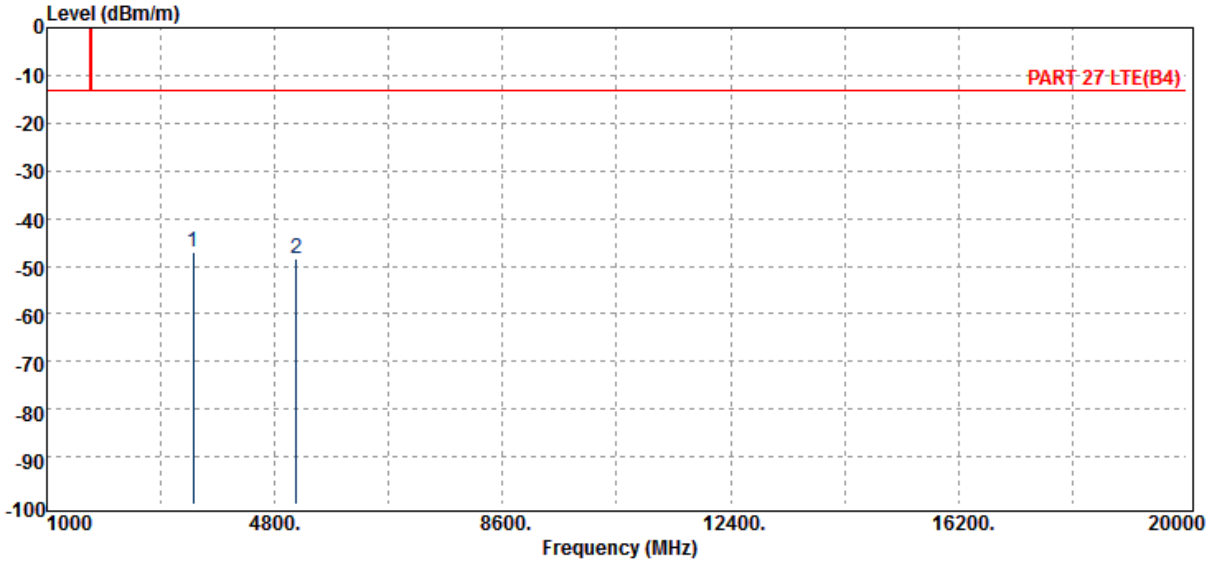
Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4 (The Worst Case)

ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3435.00	H	-47.08	-48.66	8.12	-6.54	-13.00	-34.08
5152.50	H	-48.46	-49.87	9.89	-8.49	-13.00	-35.46

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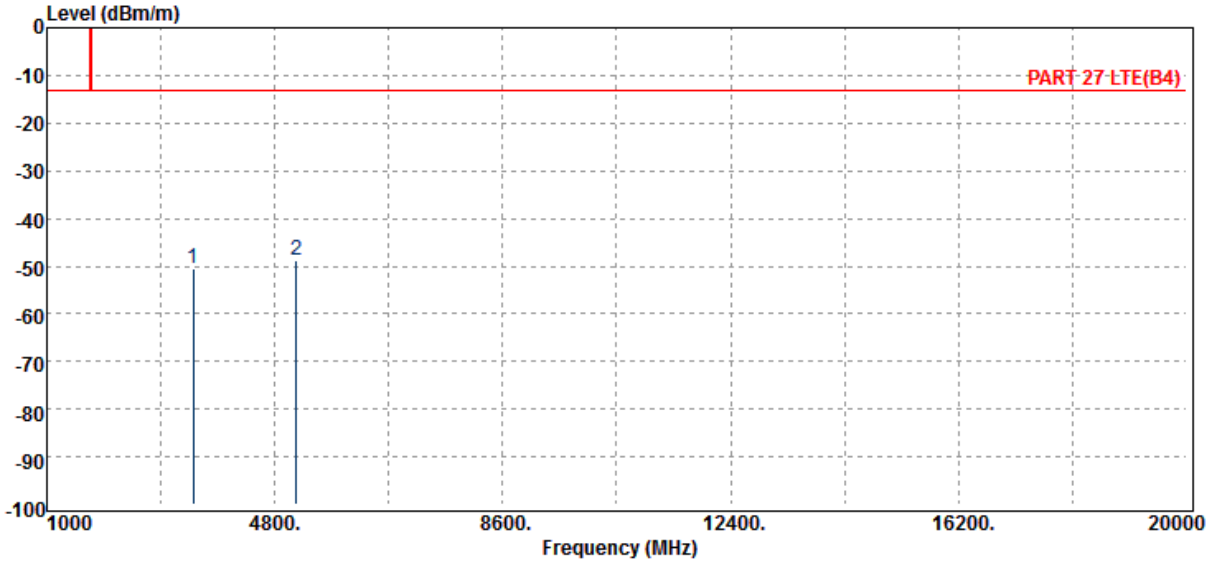
ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3435.00	H	-50.69	-52.27	8.12	-6.54	-13.00	-37.69
5152.50	H	-48.82	-50.23	9.89	-8.49	-13.00	-35.82

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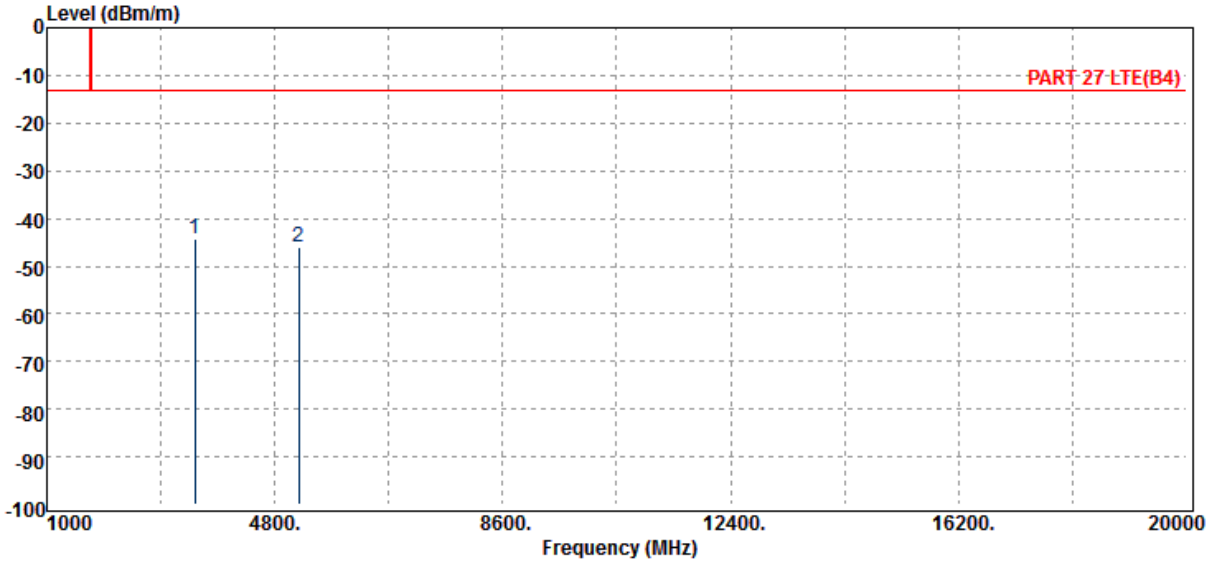
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-44.18	-45.85	8.20	-6.53	-13.00	-31.18
5197.50	H	-46.14	-47.57	9.92	-8.49	-13.00	-33.14

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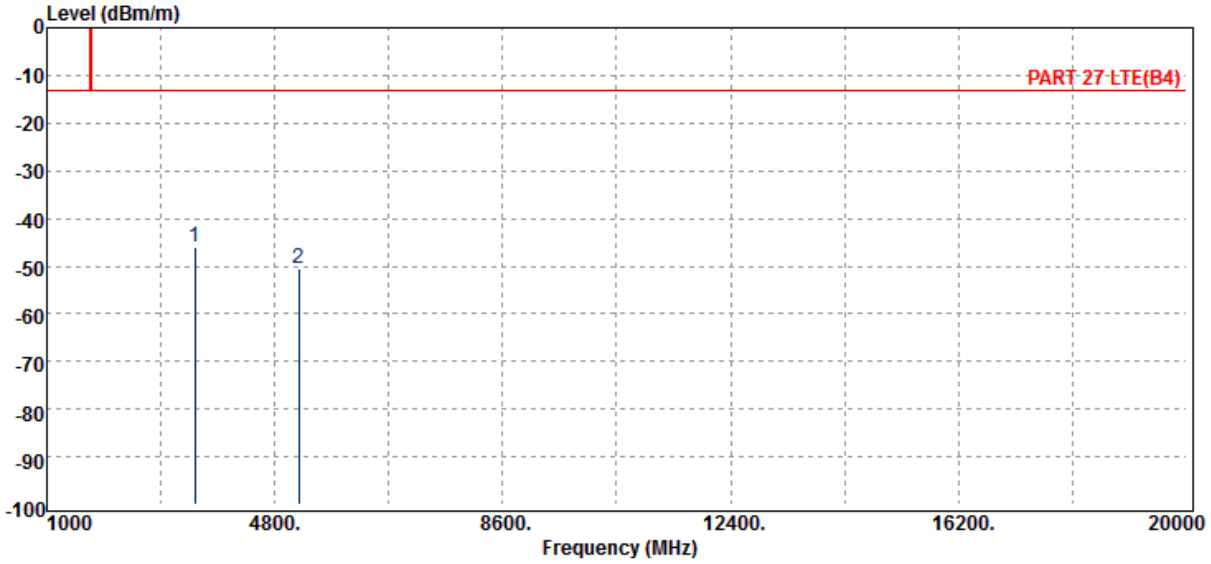
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-45.92	-47.59	8.20	-6.53	-13.00	-32.92
5197.50	H	-50.48	-51.92	9.92	-8.49	-13.00	-37.48

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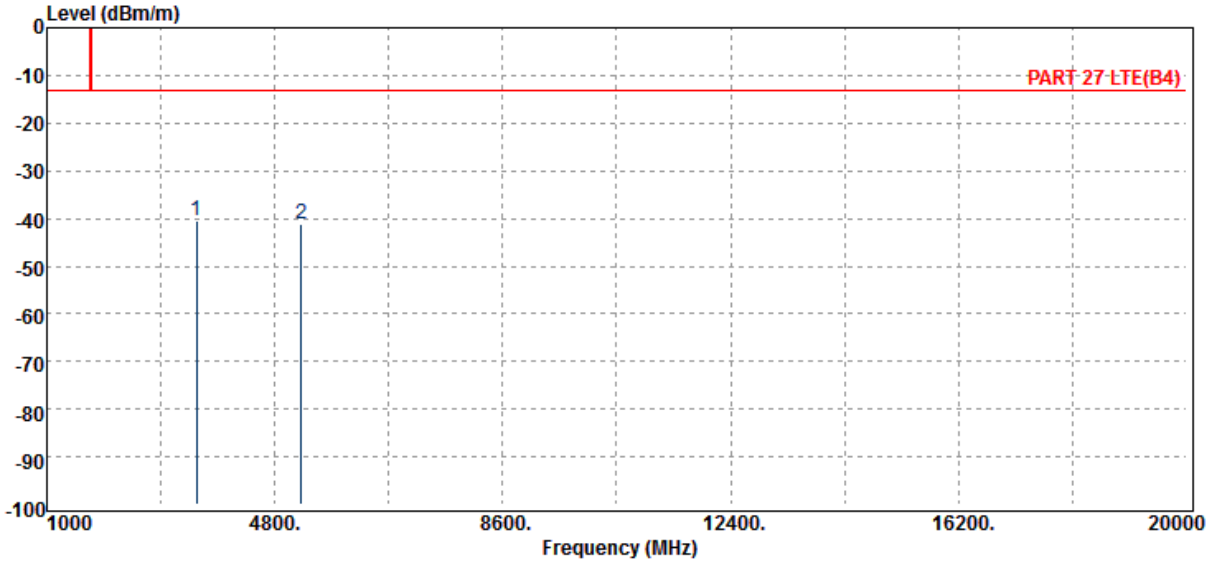
ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3495.00	H	-40.64	-42.29	8.29	-6.64	-13.00	-27.64
5242.50	H	-41.26	-42.67	9.95	-8.55	-13.00	-28.26

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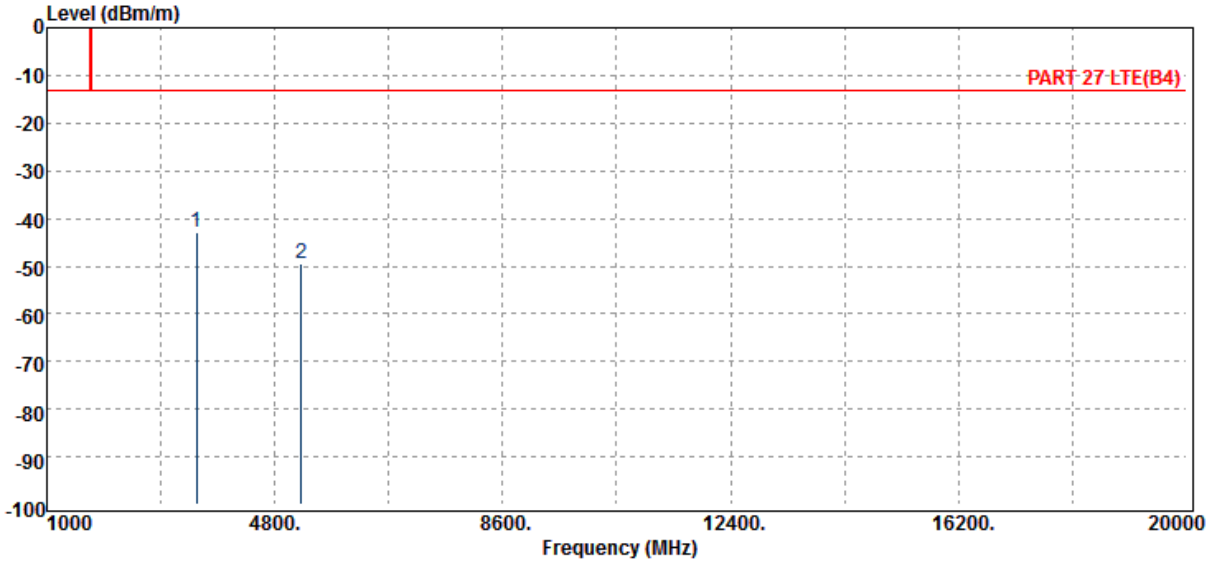
ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-03-27
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3495.00	H	-42.92	-44.57	8.29	-6.64	-13.00	-29.92
5242.50	H	-49.34	-50.75	9.95	-8.55	-13.00	-36.34

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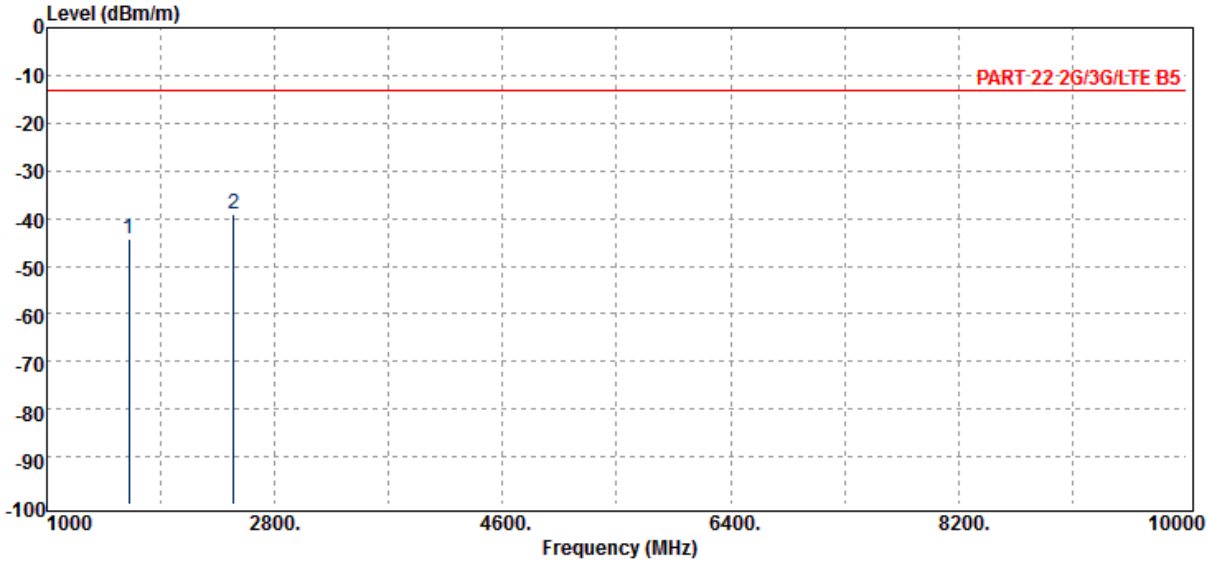
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5 (The Worst Case)

ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-44.28	-43.12	3.05	-4.21	-13.00	-31.28
2474.10	H	-39.17	-37.44	3.59	-5.32	-13.00	-26.17

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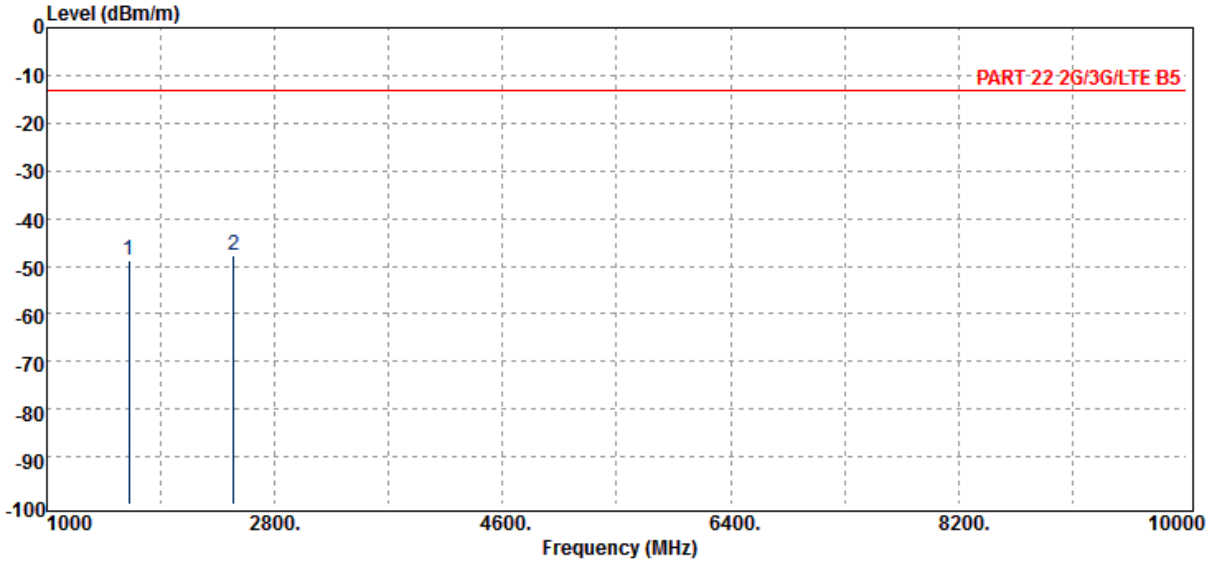
ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-48.96	-47.79	3.05	-4.21	-13.00	-35.96
2474.10	H	-47.63	-45.90	3.59	-5.32	-13.00	-34.63

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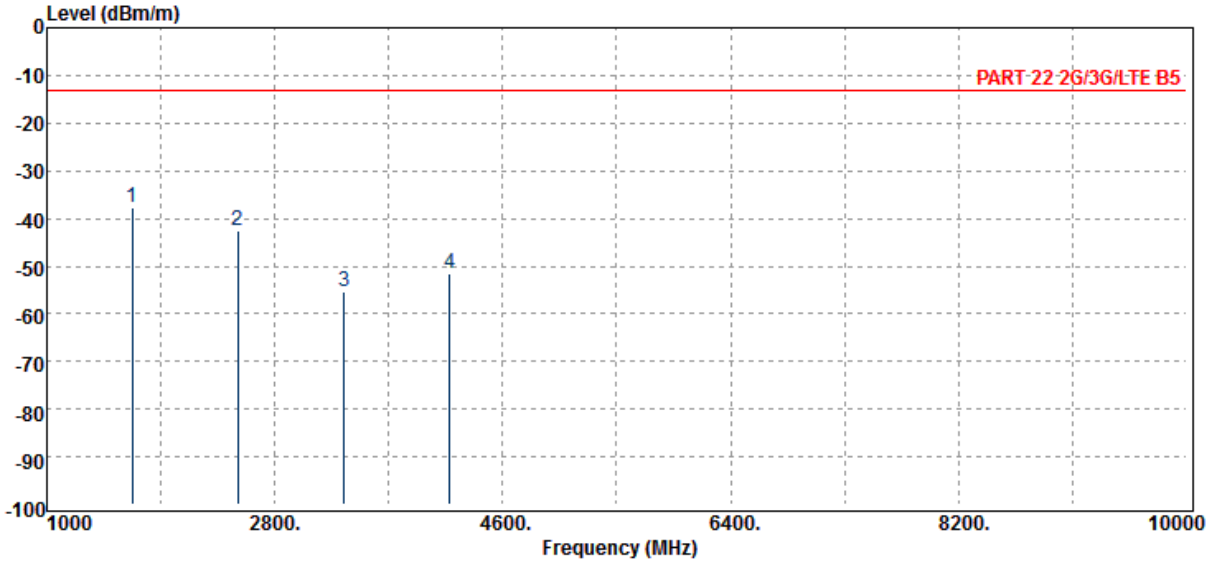
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	-37.81	-36.57	3.01	-4.26	-13.00	-24.81
2509.50	H	-42.63	-40.95	3.67	-5.35	-13.00	-29.63
3346.00	H	-55.44	-54.90	5.71	-6.25	-13.00	-42.44
4182.50	H	-51.39	-50.33	6.60	-7.66	-13.00	-38.39

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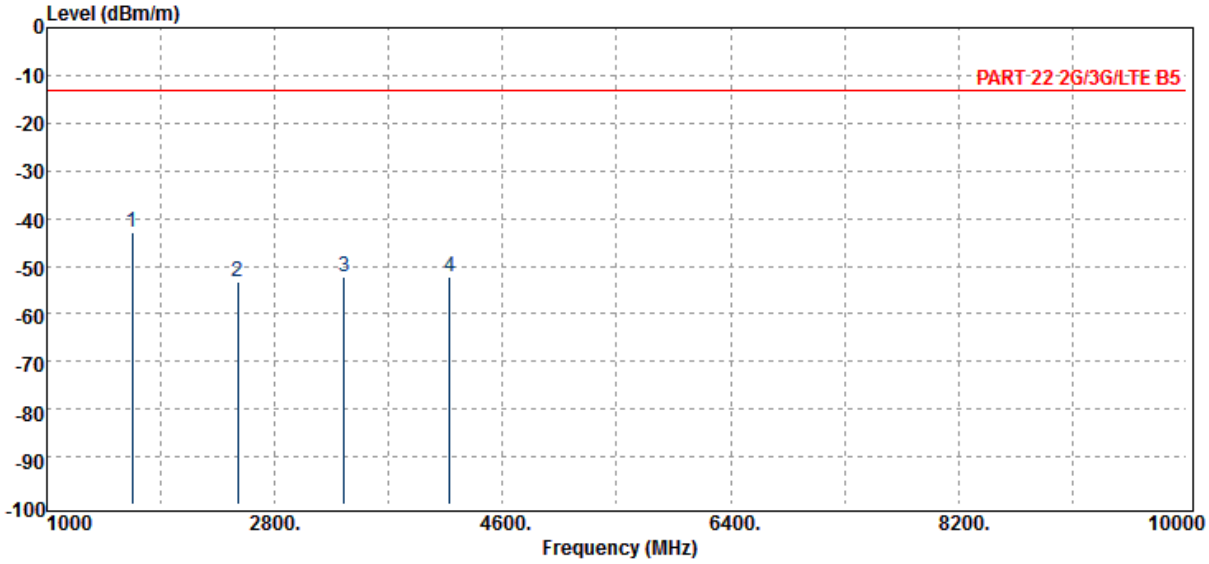
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	-42.94	-41.69	3.01	-4.26	-13.00	-29.94
2509.50	H	-53.41	-51.73	3.67	-5.35	-13.00	-40.41
3346.00	H	-52.34	-51.80	5.71	-6.25	-13.00	-39.34
4182.50	H	-52.14	-51.08	6.60	-7.66	-13.00	-39.14

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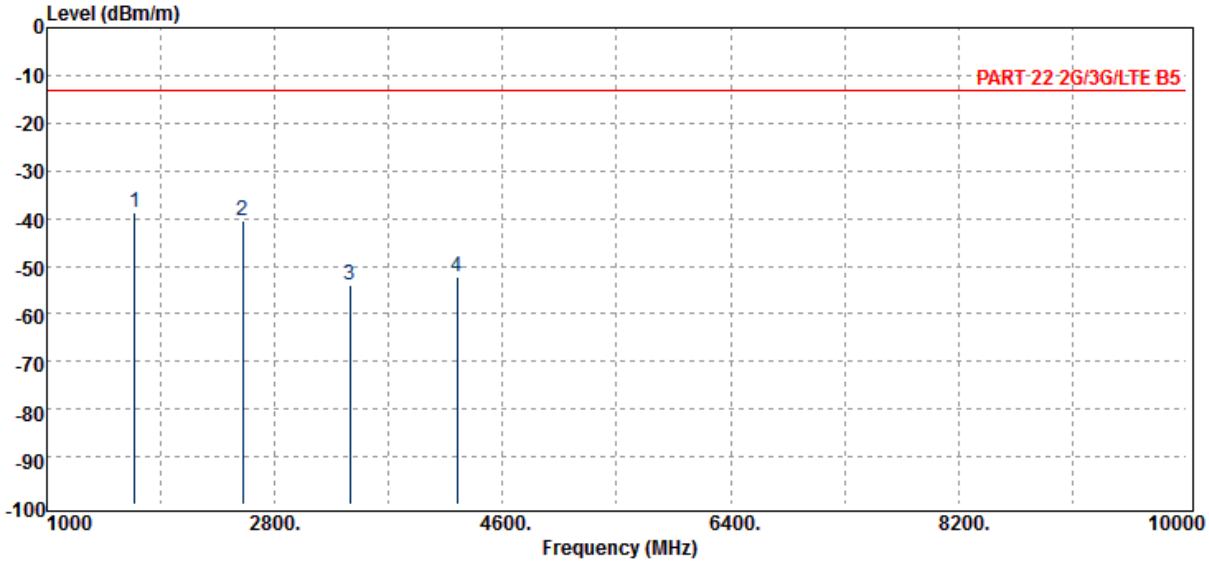
ARFCN	:CH 20643 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	H	-38.59	-37.28	2.96	-4.28	-13.00	-25.59
2544.90	H	-40.56	-38.91	3.75	-5.41	-13.00	-27.56
3393.20	H	-54.12	-53.51	5.85	-6.46	-13.00	-41.12
4241.50	H	-52.12	-51.04	6.65	-7.72	-13.00	-39.12

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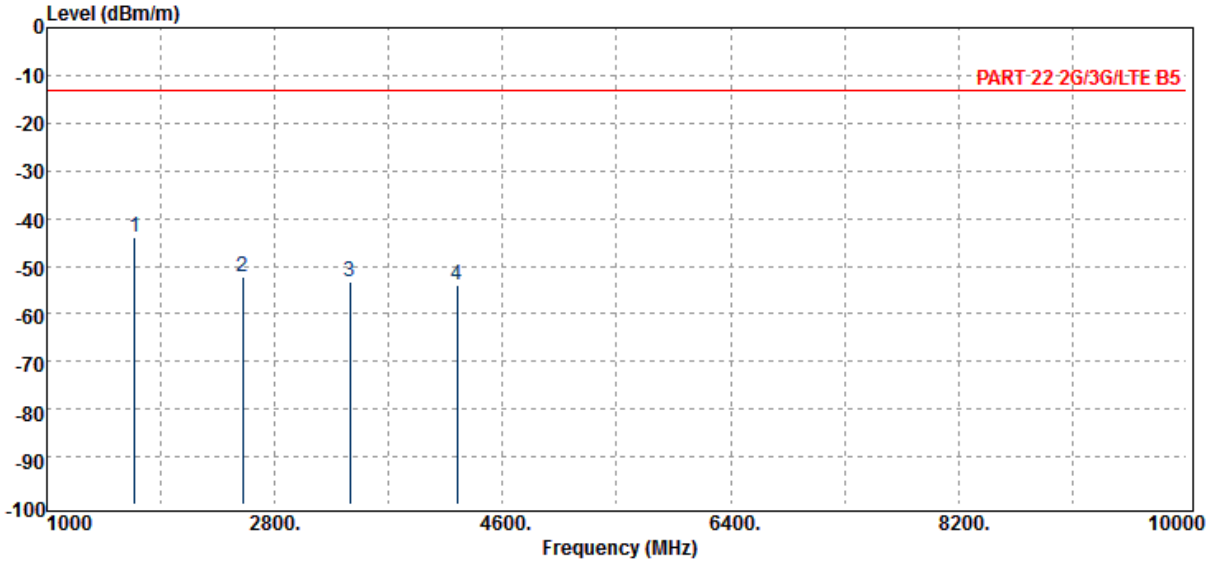
ARFCN	:CH 20643 16QAM BW 1.4 RB 1 0	Test Date	:2015-03-27
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	H	-43.89	-42.58	2.96	-4.28	-13.00	-30.89
2544.90	H	-52.40	-50.74	3.75	-5.41	-13.00	-39.40
3393.20	H	-53.20	-52.59	5.85	-6.46	-13.00	-40.20
4241.50	H	-53.83	-52.75	6.65	-7.72	-13.00	-40.83

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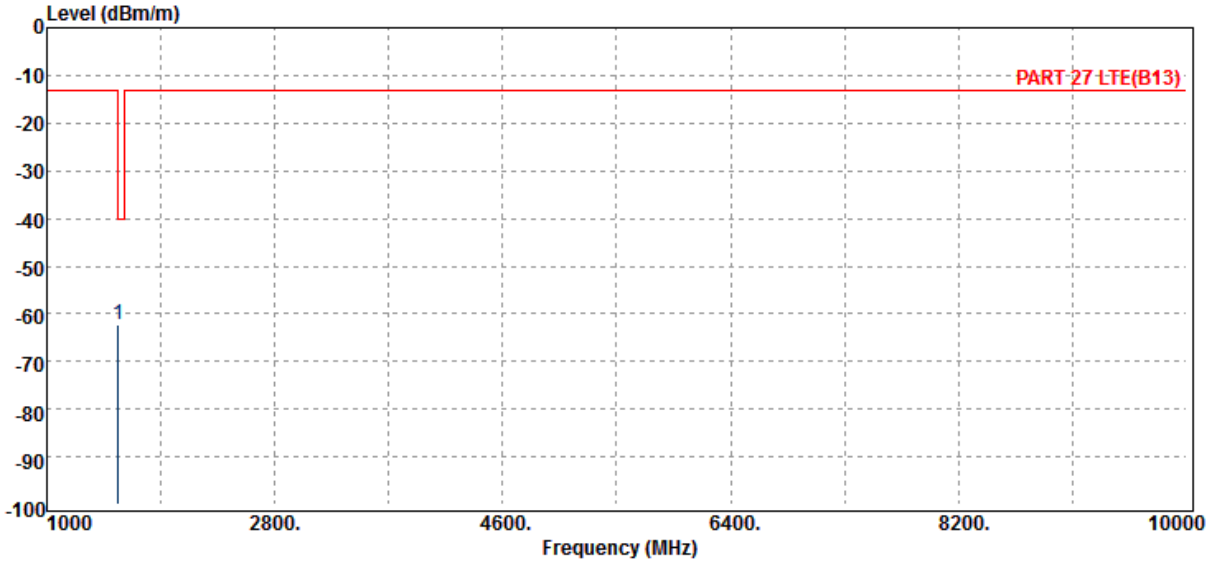
Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-62.15	-61.26	3.22	-4.11	-40.00	-22.15

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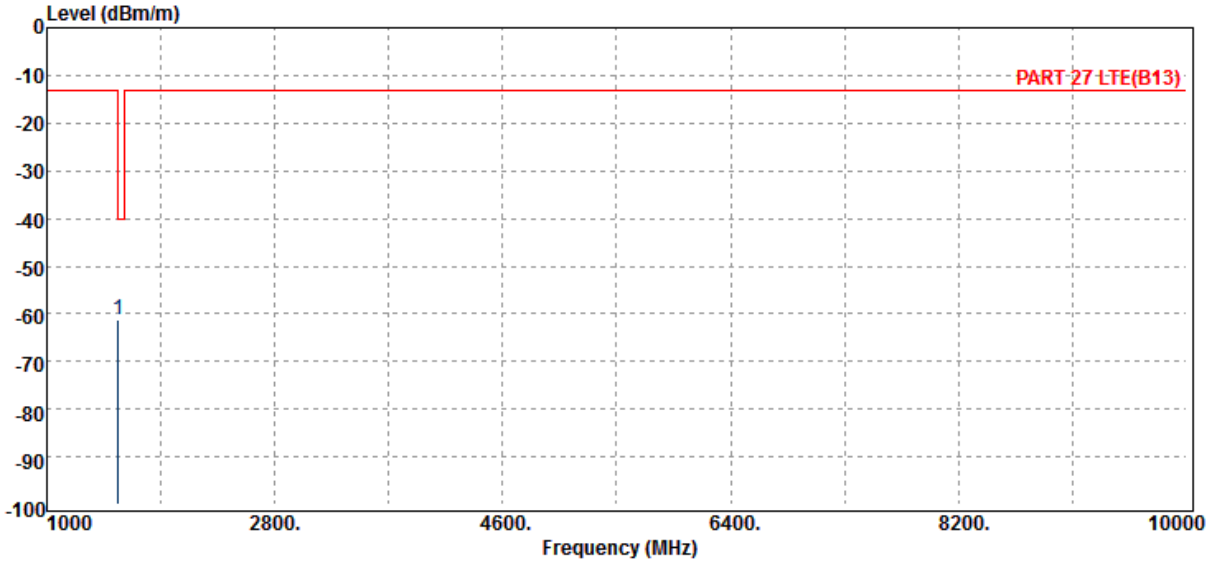
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-61.20	-60.31	3.22	-4.11	-40.00	-21.20

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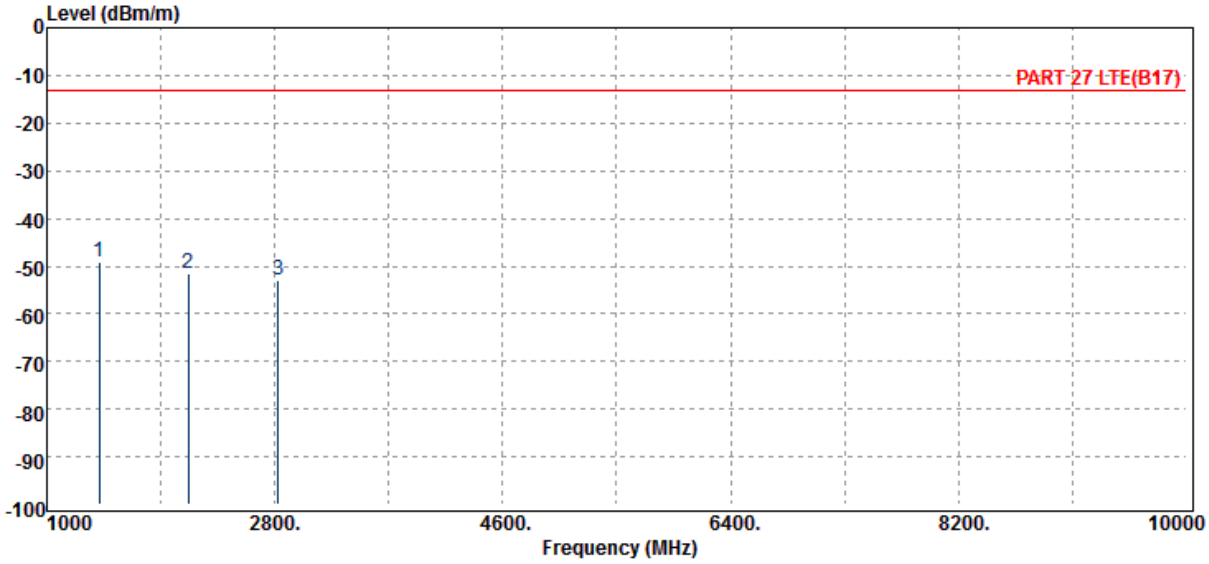
Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1413.00	H	-49.13	-48.03	2.85	-3.94	-13.00	-36.13
2119.50	H	-51.54	-49.46	2.76	-4.84	-13.00	-38.54
2826.00	H	-52.87	-51.54	4.32	-5.65	-13.00	-39.87

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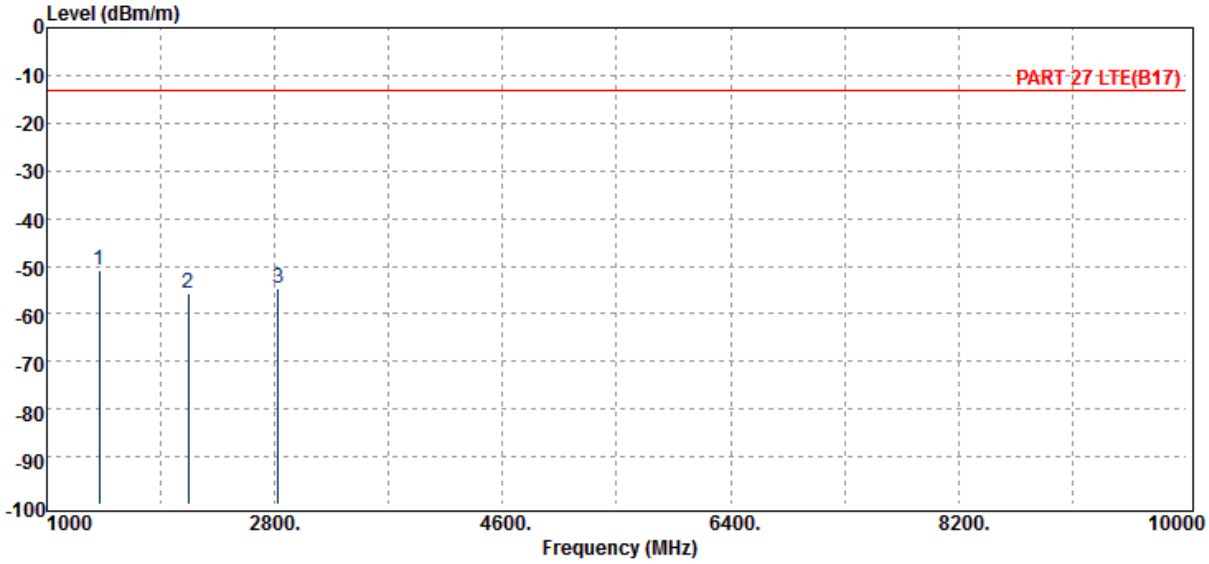
ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1413.00	H	-50.71	-49.61	2.85	-3.94	-13.00	-37.71
2119.50	H	-55.67	-53.60	2.76	-4.84	-13.00	-42.67
2826.00	H	-54.67	-53.34	4.32	-5.65	-13.00	-41.67

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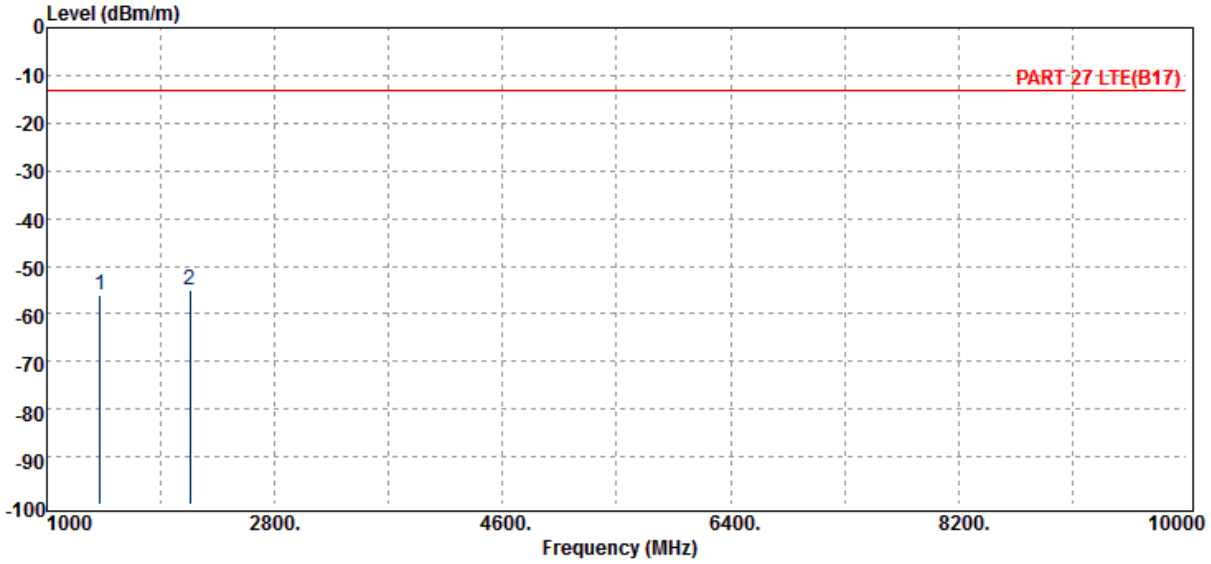
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1420.00	H	-56.07	-55.01	2.89	-3.96	-13.00	-43.07
2130.00	H	-55.04	-52.98	2.79	-4.85	-13.00	-42.04

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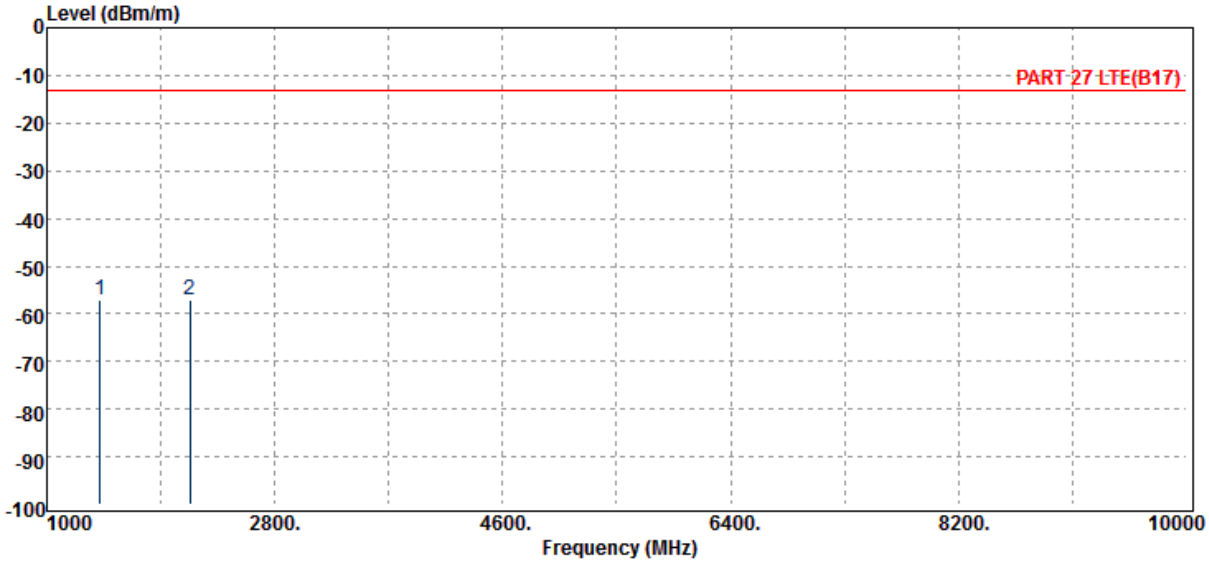
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1420.00	H	-57.20	-56.13	2.89	-3.96	-13.00	-44.20
2130.00	H	-57.03	-54.97	2.79	-4.85	-13.00	-44.03

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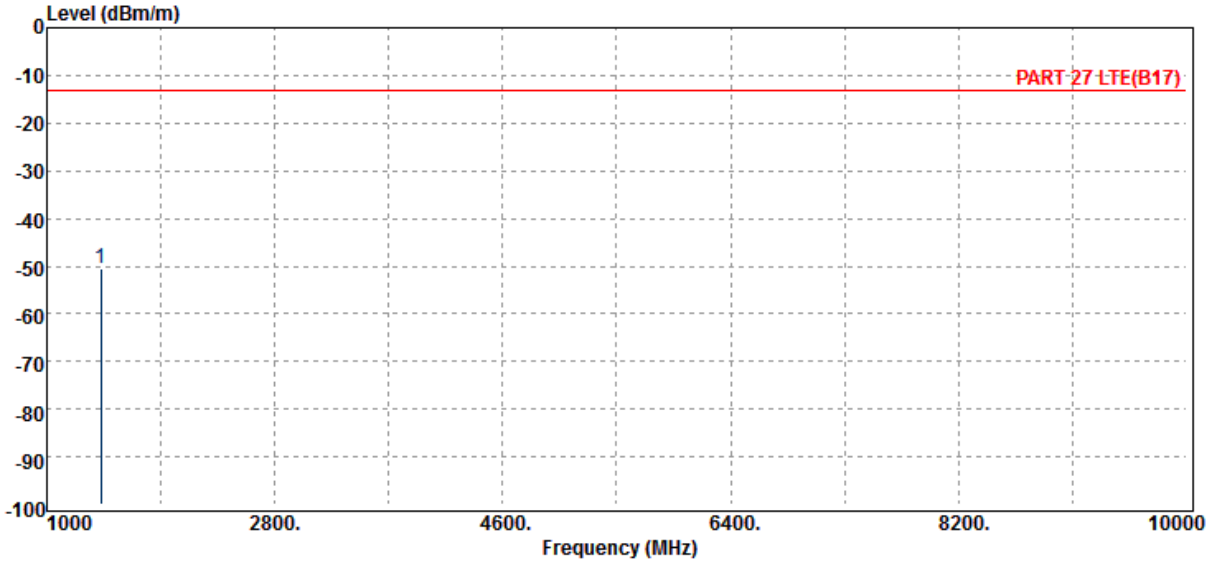
ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	-50.59	-49.55	2.93	-3.97	-13.00	-37.59

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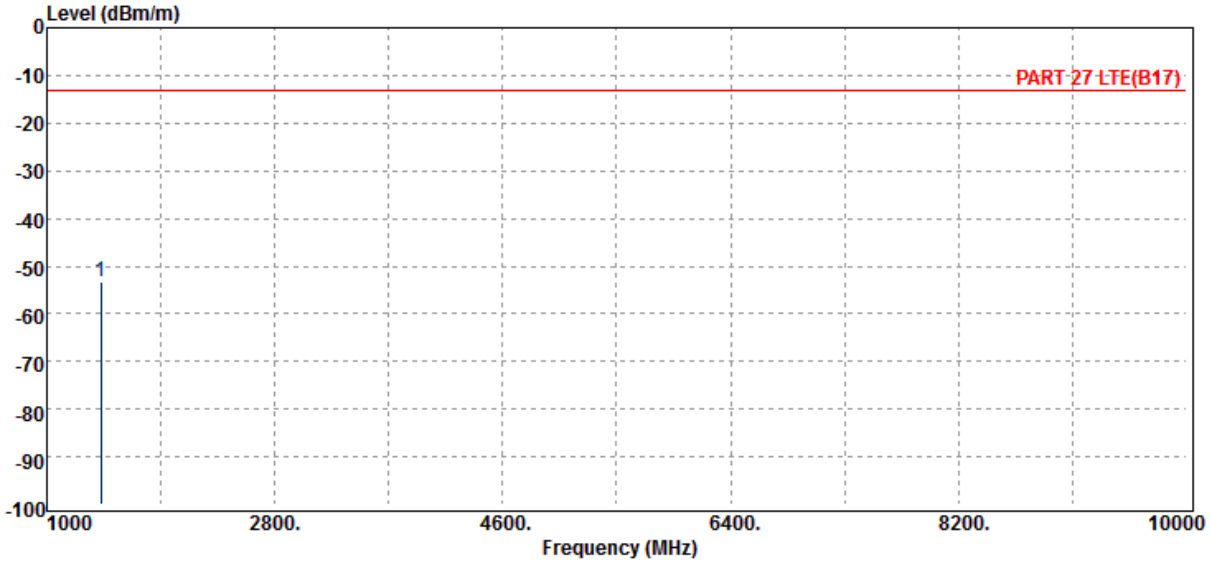
ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-03-27
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	-53.35	-52.31	2.93	-3.97	-13.00	-40.35

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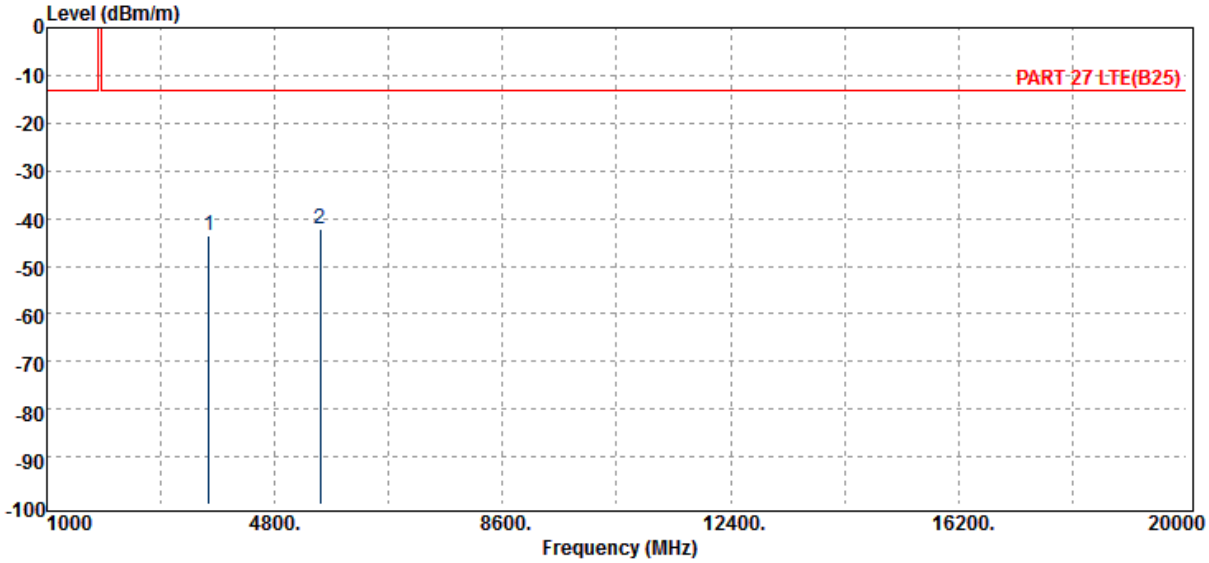
Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 25 (The Worst Case)

ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-43.51	-45.06	8.43	-6.88	-13.00	-30.51
5552.10	H	-42.36	-43.92	10.10	-8.55	-13.00	-29.36

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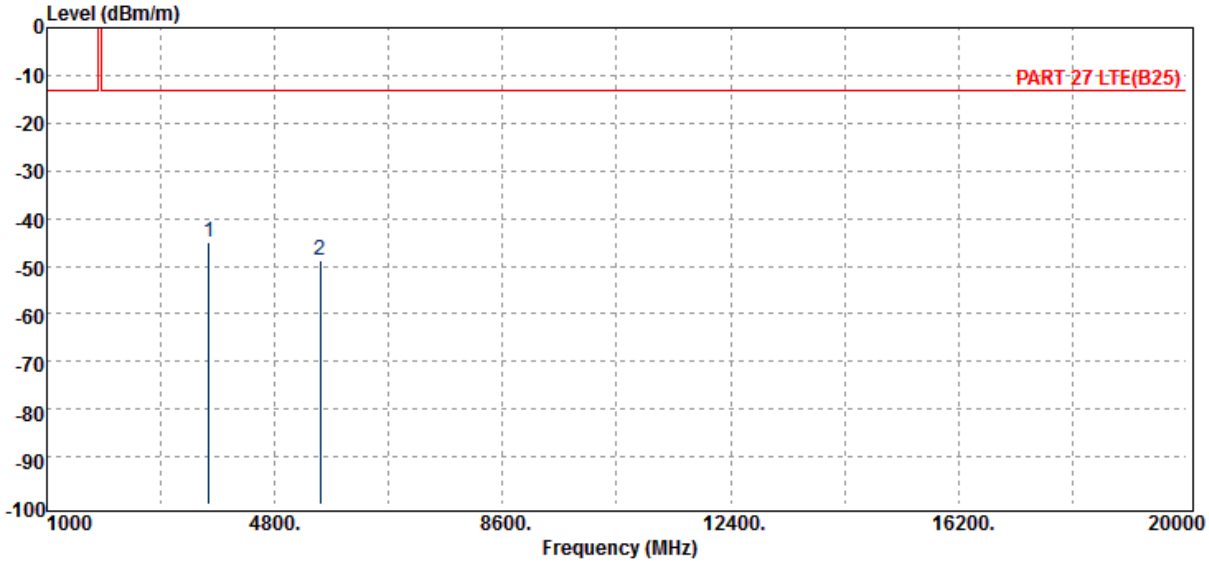
ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-45.09	-46.64	8.43	-6.88	-13.00	-32.09
5552.10	H	-48.63	-50.18	10.10	-8.55	-13.00	-35.63

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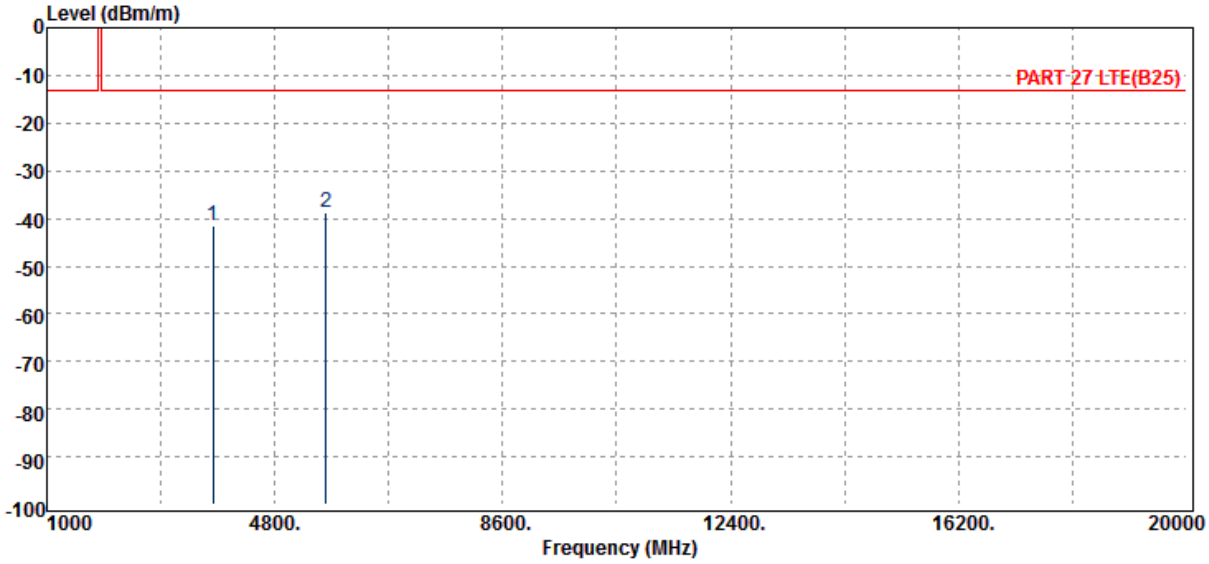
ARFCN	:CH 26365 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-41.43	-42.86	8.46	-7.03	-13.00	-28.43
5647.50	H	-38.89	-40.42	10.11	-8.59	-13.00	-25.89

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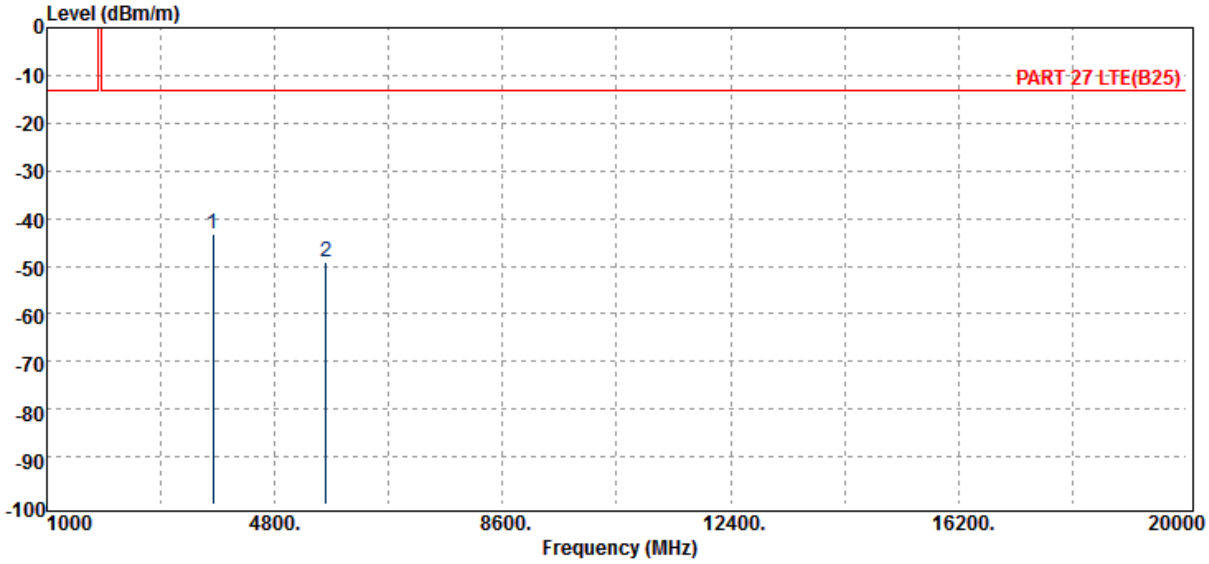
ARFCN	:CH 26365 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-43.29	-44.72	8.46	-7.03	-13.00	-30.29
5647.50	H	-49.26	-50.78	10.11	-8.59	-13.00	-36.26

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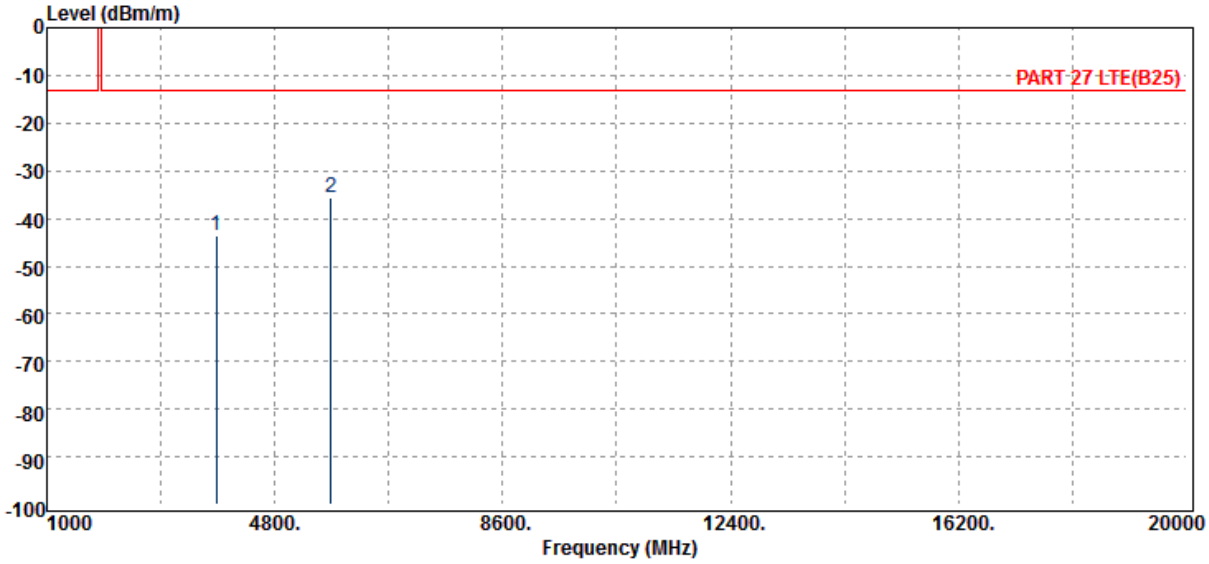
ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3828.60	H	-43.53	-44.98	8.50	-7.05	-13.00	-30.53
5742.90	H	-35.75	-37.20	10.12	-8.67	-13.00	-22.75

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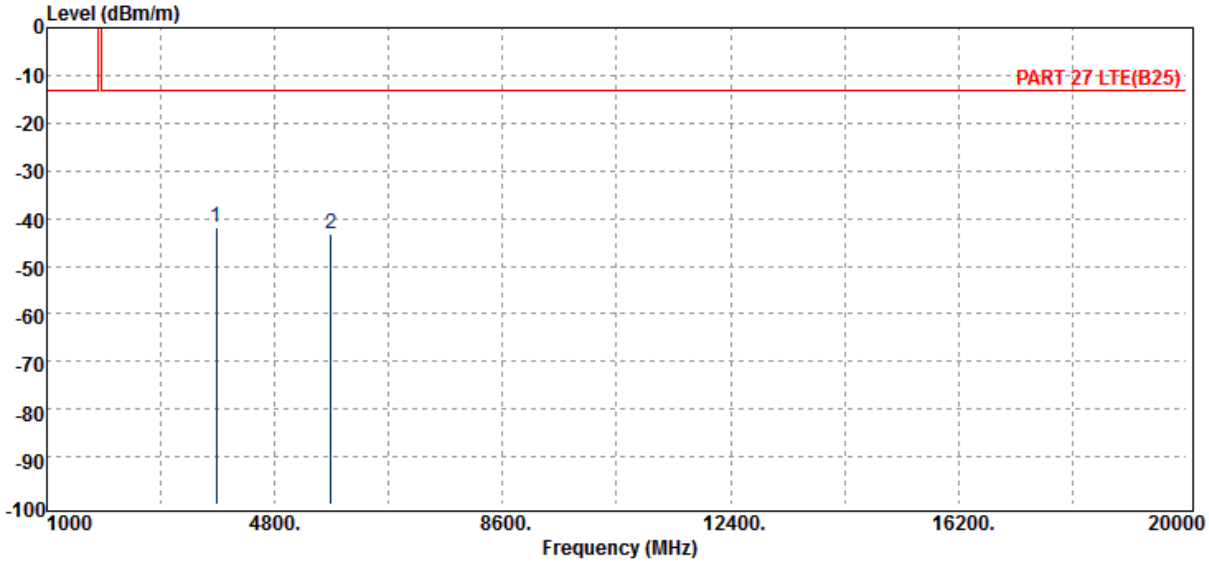
ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-03-27
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3828.60	H	-41.83	-43.28	8.50	-7.05	-13.00	-28.83
5742.90	H	-43.20	-44.65	10.12	-8.67	-13.00	-30.20

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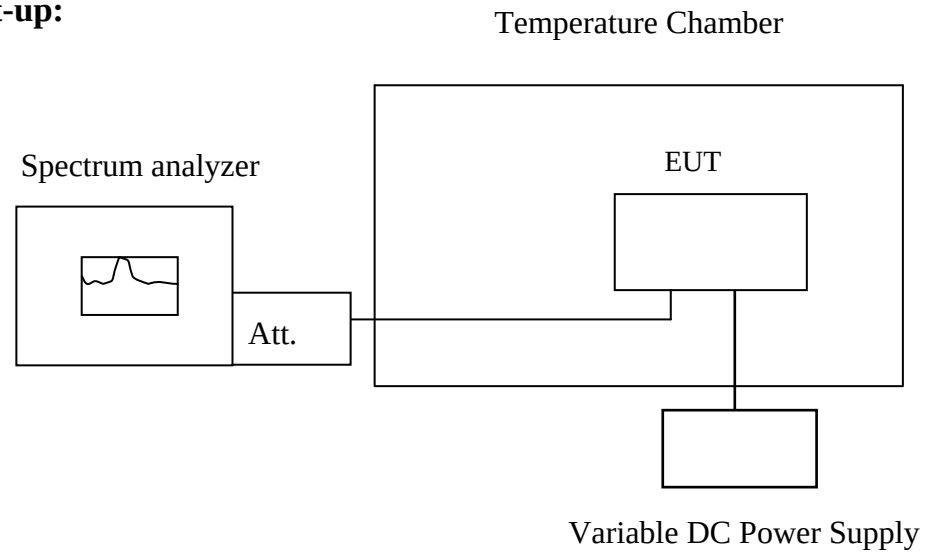
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.5	20	836599992	-1	2091
15.0	20	836599993	0	2091
13.5	20	836599997	4	2091
10.0 (End point)	20	836599997	4	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
15.0	50	836599985	-8	2091
15.0	40	836599987	-6	2091
15.0	30	836600019	26	2091
15.0	20	836599993	0	2091
15.0	10	836599995	2	2091
15.0	0	836599996	3	2091
15.0	-10	836600001	8	2091
15.0	-20	836600002	9	2091
15.0	-30	836600004	11	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.5	20	1879999993	-3	4700
15.0	20	1879999996	0	4700
13.5	20	1880000002	6	4700
10.0 (End point)	20	1880000002	6	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
15.0	50	1879999986	-10	4700
15.0	40	1879999990	-6	4700
15.0	30	1879999994	-2	4700
15.0	20	1879999996	0	4700
15.0	10	1879999998	2	4700
15.0	0	1880000003	7	4700
15.0	-10	1880000006	10	4700
15.0	-20	1880000011	15	4700
15.0	-30	1880000014	18	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.5	20	1880000001	1	4700
15.0	20	1880000000	0	4700
13.5	20	1879999998	-2	4700
10.0 (End point)	20	1879999998	-2	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
15.0	50	1879999985	-15	4700
15.0	40	1879999990	-10	4700
15.0	30	1879999996	-4	4700
15.0	20	1880000000	0	4700
15.0	10	1880000005	5	4700
15.0	0	1880000011	11	4700
15.0	-10	1880000012	12	4700
15.0	-20	1880000016	16	4700
15.0	-30	1880000021	21	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.5	20	173260004	1	4331
15.0	20	173260003	0	4331
13.5	20	173260001	-2	4331
10.0 (End point)	20	173260001	-2	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	50	173259980	-23	4331
15	40	173259985	-18	4331
15	30	173259999	-4	4331
15	20	173260003	0	4331
15	10	173260000	-3	4331
15	0	173260006	3	4331
15	-10	173260007	4	4331
15	-20	173260011	8	4331
15	-30	173260016	13	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.5	20	836599990	-4	2091
15.0	20	836599994	0	2091
13.5	20	836599998	4	2091
10.0 (End point)	20	836599998	4	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15.0	50	836599980	-14	2091
15.0	40	836599983	-11	2091
15.0	30	836599988	-6	2091
15.0	20	836599994	0	2091
15.0	10	836599996	2	2091
15.0	0	836600001	7	2091
15.0	-10	836600005	11	2091
15.0	-20	836600009	15	2091
15.0	-30	836600018	24	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.50	25.00	836.520000	-2.00	2091.00
15.00	25.00	836.519998	0.00	2091.00
13.50	25.00	836.519996	2.00	2091.00
10.0 (End point)	25.00	836.519996	2.00	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
15.00	-30	836.520008	-79.00	2091
15.00	-20	836.519996	-67.00	2091
15.00	-10	836.519997	-68.00	2091
15.00	0	836.519994	-65.00	2091
15.00	10	836.520003	-74.00	2091
15.00	20	836.519929	0.00	2091
15.00	30	836.519999	-70.00	2091
15.00	40	836.519995	-66.00	2091
15.00	50	836.519990	-61.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.50	25	1880.000000	2.00	4700
15.00	25	1880.000002	0.00	4700
13.50	25	1880.000005	-3.00	4700
10.0 (End point)	25	1880.000005	-3.00	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC1 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50
16.50	25	1880.000000	2.00	16.50

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
16.50	25.00	820.500003	5.00	2091.00
15.00	25.00	820.500008	0.00	2091.00
13.50	25.00	820.499997	11.00	2091.00
10.0 (End point)	25.00	820.499997	11.00	2091.00

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
15	-30	820.500004	1.00	2091
15	-20	820.500008	-3.00	2091
15	-10	820.499998	7.00	2091
15	0	820.500006	-1.00	2091
15	10	820.500007	-2.00	2091
15	20	820.500005	0.00	2091
15	30	820.500009	-4.00	2091
15	40	820.500005	0.00	2091
15	50	820.500000	5.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.50	25	1879.999984	-2.20	4700
15.0	25	1879.999986	0.00	4700
13.50	25	1879.999979	-6.90	4700
10.0 (End Point)	25	1879.999984	-1.80	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	-30	1879.999990	-3.50	4700
15	-20	1879.999991	-2.60	4700
15	-10	1879.999992	-1.10	4700
15	0	1879.999993	-0.90	4700
15	10	1879.999993	-0.30	4700
15	20	1879.999993	0.00	4700
15	30	1879.999995	1.50	4700
15	40	1879.999995	2.00	4700
15	50	1879.999996	2.70	4700

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.50	25	1732.499965	-12.00	4331
15.0	25	1732.499977	0.00	4331
13.50	25	1732.499979	2.00	4331
10.0 (End Point)	25	1732.499960	-17.00	4331

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	-30	1732.499928	-28.00	4331
15	-20	1732.499934	-22.00	4331
15	-10	1732.499942	-14.00	4331
15	0	1732.499940	-16.00	4331
15	10	1732.499952	-4.00	4331
15	20	1732.499956	0.00	4331
15	30	1732.499972	16.00	4331
15	40	1732.499978	22.00	4331
15	50	1732.499981	25.00	4331

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.00	25	836.499961	-14.00	2091
15.0	25	836.499975	0.00	2091
13.50	25	836.499982	7.00	2091
10.0 (End Point)	25	836.499959	-16.00	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	-30	836.499949	-30.00	2091
15	-20	836.499954	-25.00	2091
15	-10	836.499965	-14.00	2091
15	0	836.499978	-1.00	2091
15	10	836.499964	-15.00	2091
15	20	836.499979	0.00	2091
15	30	836.499981	2.00	2091
15	40	836.499985	6.00	2091
15	50	836.499991	12.00	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.50	25	781.999966	-8.00	1955
15.0	25	781.999974	0.00	1955
13.50	25	781.999984	10.00	1955
10.0 (End Point)	25	781.999961	-13.00	1955

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B13 Mid Channel	782.0	MHz 10M QPSK CH 23230
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	-30	781.999956	-29.00	1955
15	-20	781.999964	-21.00	1955
15	-10	781.999969	-16.00	1955
15	0	781.999971	-14.00	1955
15	10	781.999975	-10.00	1955
15	20	781.999985	0.00	1955
15	30	781.999995	10.00	1955
15	40	781.999992	7.00	1955
15	50	781.999989	4.00	1955

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B17 Mid Channel	710.0	MHz 10M QPSK CH 23790
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.50	25	709.999965	-9.00	1775
15.0	25	709.999974	0.00	1775
13.50	25	709.999978	4.00	1775
10.0 (End Point)	25	709.999956	-18.00	1775

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B17 Mid Channel	710.0	MHz 10M QPSK CH 23790
Limit: +/- 2.5 ppm			

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	-30	709.999949	-32.00	1775
15	-20	709.999956	-25.00	1775
15	-10	709.999969	-12.00	1775
15	0	709.999972	-9.00	1775
15	10	709.999975	-6.00	1775
15	20	709.999981	0.00	1775
15	30	709.999990	9.00	1775
15	40	709.999989	8.00	1775
15	50	709.999985	4.00	1775

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz 10M QPSK CH 26365	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
16.50	25	1882.499971	-7.00	4706
15.0	25	1882.499978	0.00	4706
13.50	25	1882.499984	6.00	4706
10.0 (End Point)	25	1882.499959	-19.00	4706

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency:	LTE B25 Mid Channel	1882.5	MHz 10M QPSK CH 26365	
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
15	-30	1882.499964	-22.00	4706
15	-20	1882.499971	-15.00	4706
15	-10	1882.499972	-14.00	4706
15	0	1882.499978	-8.00	4706
15	10	1882.499984	-2.00	4706
15	20	1882.499986	0.00	4706
15	30	1882.499991	5.00	4706
15	40	1882.499995	9.00	4706
15	50	1882.499990	4.00	4706

Note: The adtpter is rated 15V dc.

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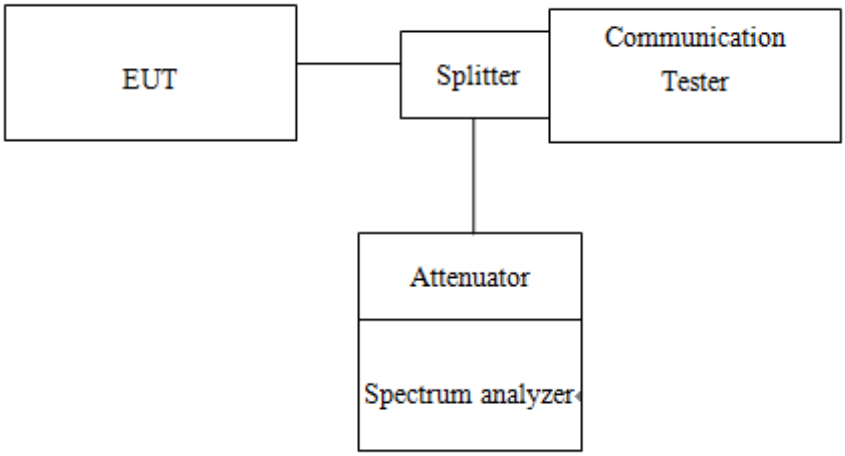
12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
824.20	128	10.74	11.19
836.60	190	11.27	11.59
848.80	251	10.82	10.46

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
1850.20	512	9.57	8.22
1880.00	661	8.60	8.50
1909.80	810	7.47	8.43

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	3.38	3.39	3.36
1880.00	9400	3.28	3.27	3.27
1909.80	9538	3.18	3.23	3.19

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.32	3.35	3.31
1732.6	1413	3.19	3.20	3.20
1752.6	1513	3.39	3.41	3.46

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.14	3.15	3.16
836.60	4183	3.20	3.18	3.20
846.60	4233	3.24	3.22	3.22

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC0	EVDO BC0
1850.20	9262	3.87	3.83
1880.00	9400	3.83	3.83
1909.80	9538	3.24	3.28

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC1	EVDO BC1
826.40	4132	3.81	3.80
836.60	4183	3.51	3.60
846.60	4233	3.45	3.47

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		CDMA BC10	EVDO BC10
817.9	476	3.71	3.77
820.5	580	3.58	3.59
823.1	684	3.60	3.61

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	18607	6.61	13	1851.5	18615	6.54	13
1880.0	18900	6.54	13	1880.0	18900	6.52	13
1909.3	19193	5.90	13	1908.5	19185	6.15	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	18625	6.54	13	1855.0	18650	6.44	13
1880.0	18900	6.55	13	1880.0	18900	6.45	13
1907.5	19175	6.20	13	1905.0	19150	6.40	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	18675	6.82	13	1860.0	18700	7.11	13
1880.0	18900	6.70	13	1880.0	18900	7.14	13
1902.5	19125	6.75	13	1900.0	19100	7.11	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1710.7	19957	6.25	13	1711.5	19965	6.21	13
1732.5	20175	5.65	13	1732.5	20175	5.83	13
1754.3	20393	6.32	13	1753.5	20385	6.35	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1712.5	19957	6.33	13	1715.0	20000	6.24	13
1732.5	20175	6.03	13	1732.5	20175	6.11	13
1752.5	20375	6.45	13	1750.0	20350	6.43	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1717.5	20025	6.75	13	1720.0	20050	7.04	13
1732.5	20175	6.67	13	1732.5	20175	7.13	13
1747.5	20325	6.74	13	1745.0	20300	7.11	13

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
824.7	20407	6.21	13	825.5	20415	6.28	13
836.5	20525	6.39	13	836.5	20525	6.30	13
848.3	20643	5.80	13	847.5	20635	6.13	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
826.5	20425	6.48	13	2505.0	20800	6.44	13
836.5	20525	6.50	13	2535.0	21100	6.36	13
846.5	20625	6.23	13	2565.0	21400	6.23	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
779.5	23205	6.35	13	23230	782	5.91	13
782.0	23230	5.89	13				
782.0	23255	5.60	13				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
706.5	23755	5.50	13	709	23780	5.97	13
710.0	23790	5.97	13	710	23790	6.05	13
713.5	23825	6.07	13	711	23800	6.08	13

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1850.7	26047	6.58	13	1851.5	26055	6.64	13
1882.5	26365	6.67	13	1882.5	26365	6.57	13
1914.3	26683	5.56	13	1913.5	26675	5.72	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1852.5	26065	6.55	13	1855.0	26090	6.45	13
1882.5	26365	6.60	13	1882.5	26365	6.46	13
1912.5	26665	5.94	13	1910.0	26640	6.25	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		16QAM	LIMIT			16QAM	LIMIT
1857.5	26115	6.78	13	1860.0	26140	7.22	13
1882.5	26365	6.75	13	1882.5	26365	7.16	13
1907.5	26615	6.85	13	1905.0	26590	7.23	13

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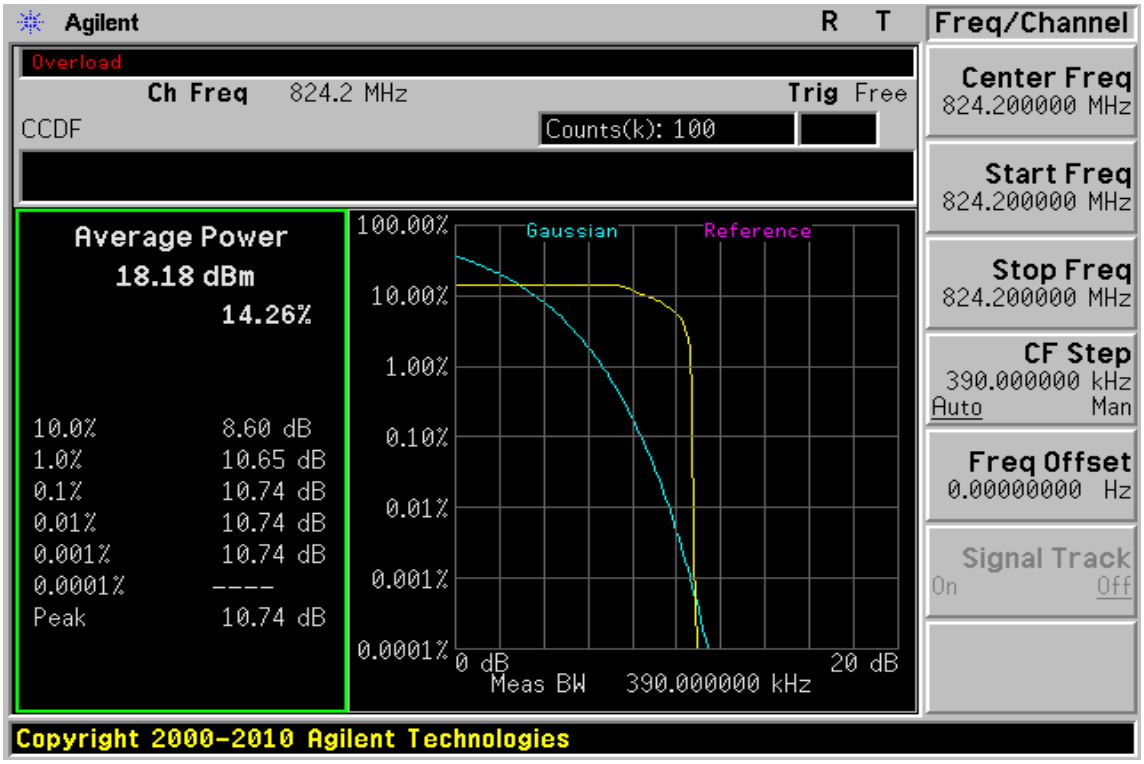
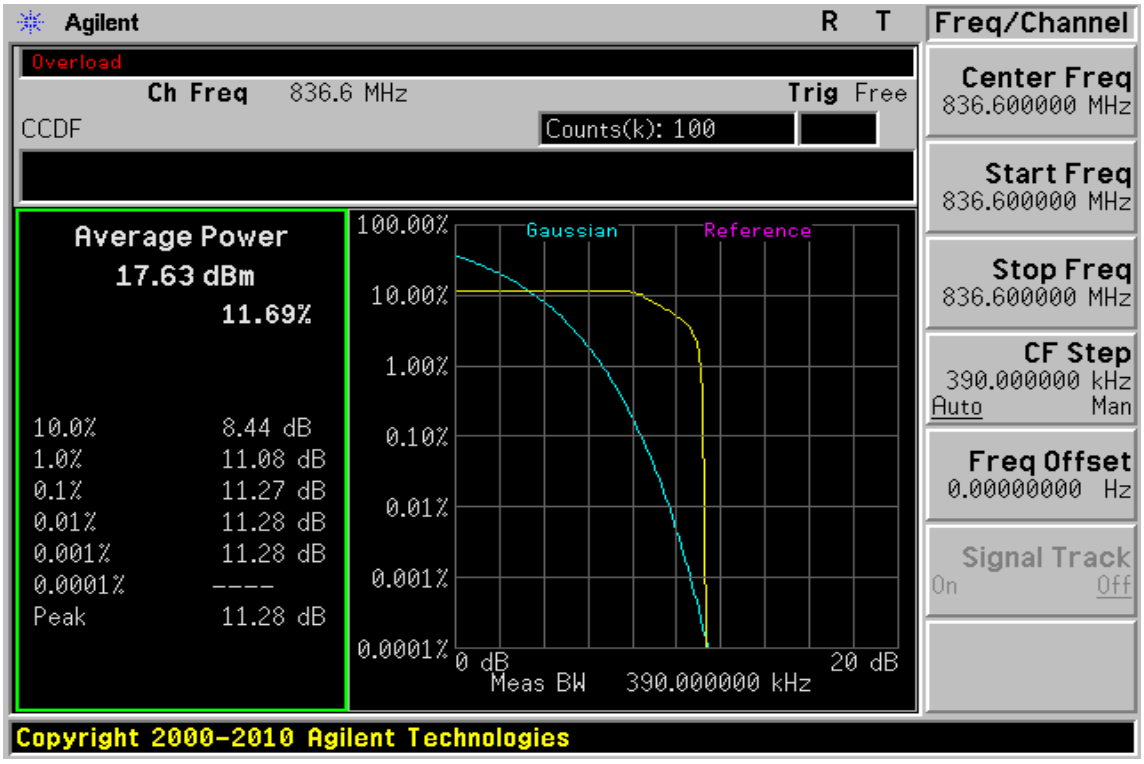
Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid



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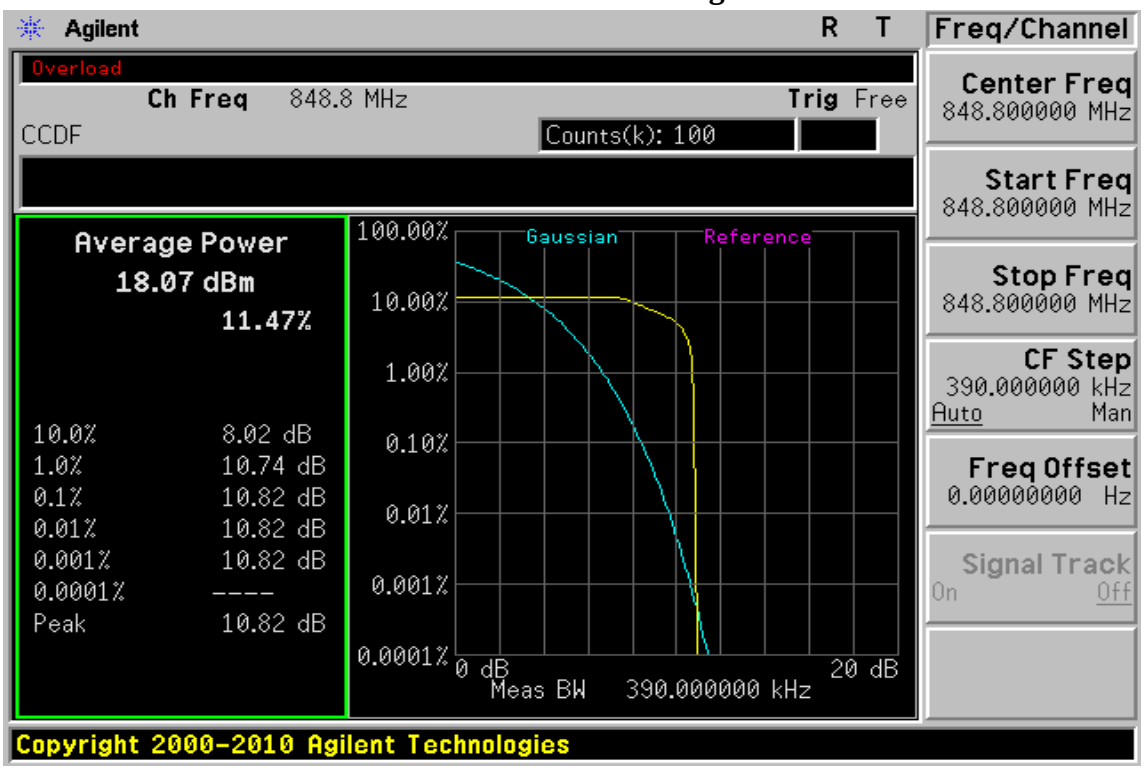
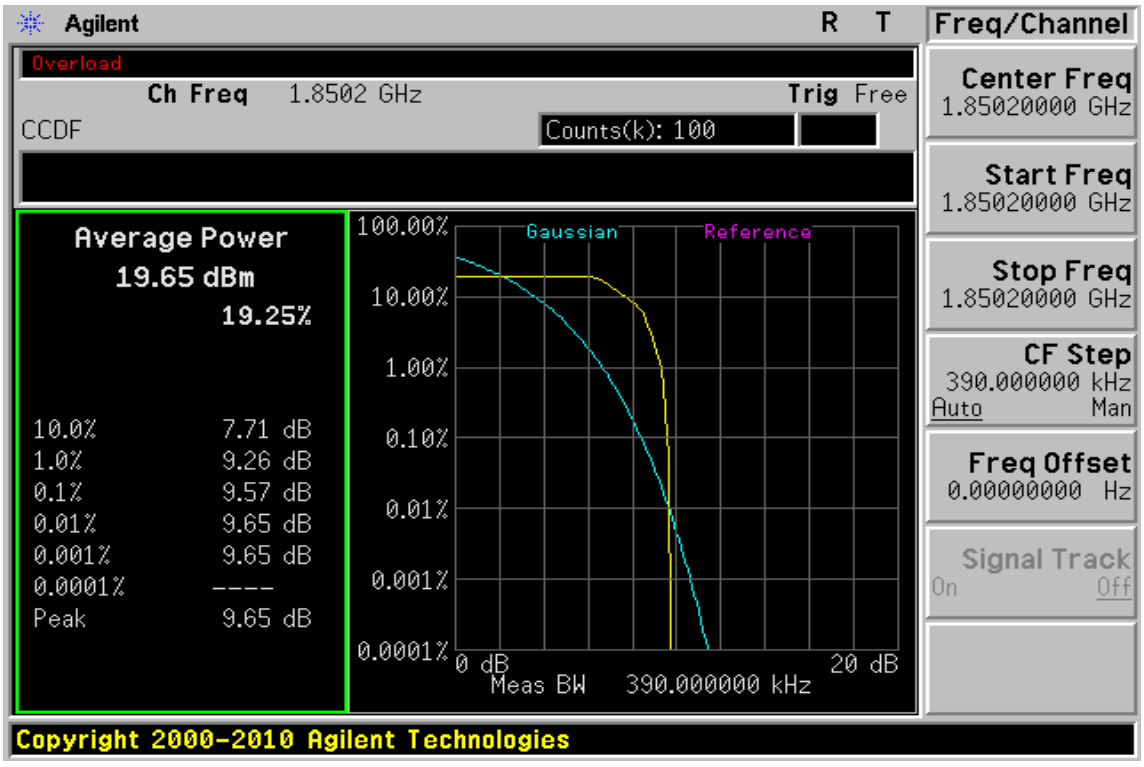
GPRS 850 Channel High



GPRS 1900 Channel Low



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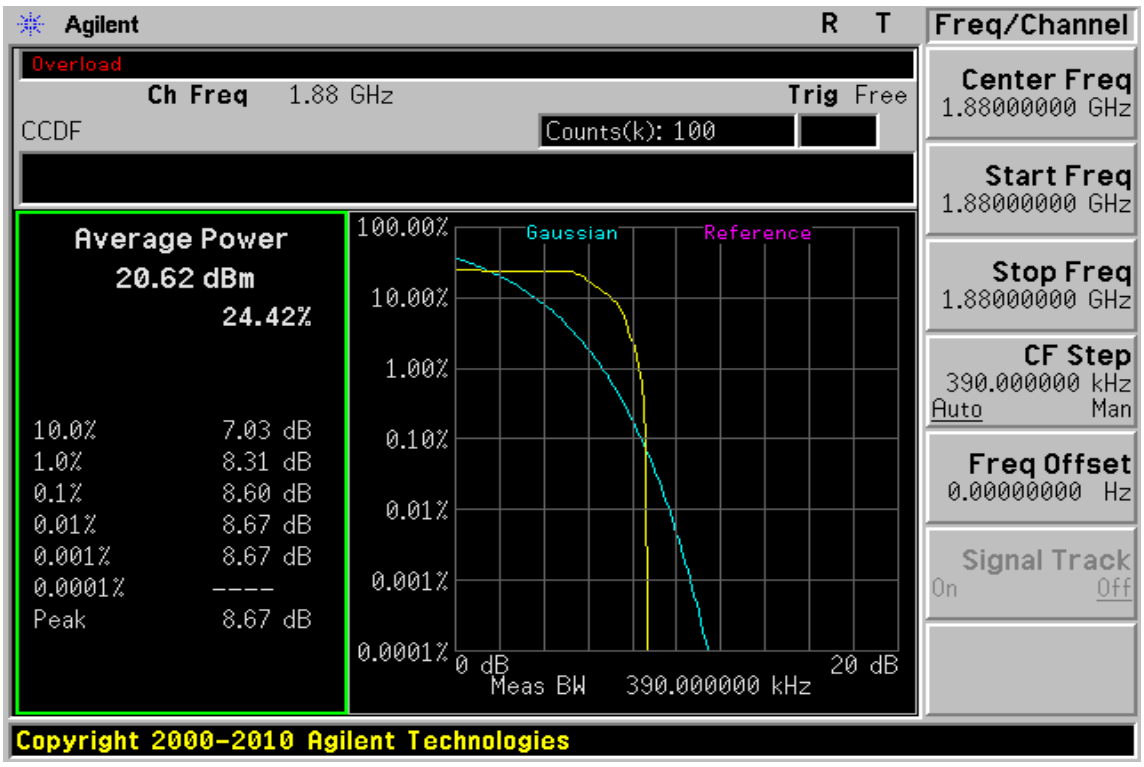
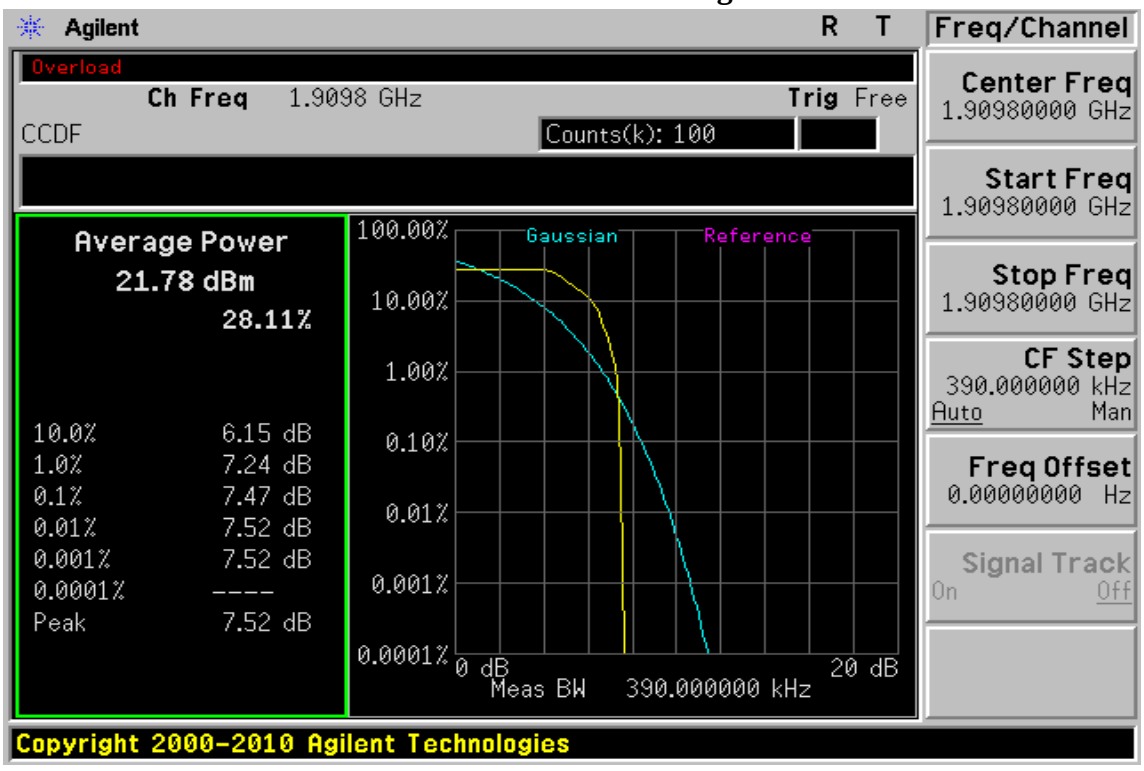
GPRS 1900 Channel Mid



GPRS 1900 Channel High



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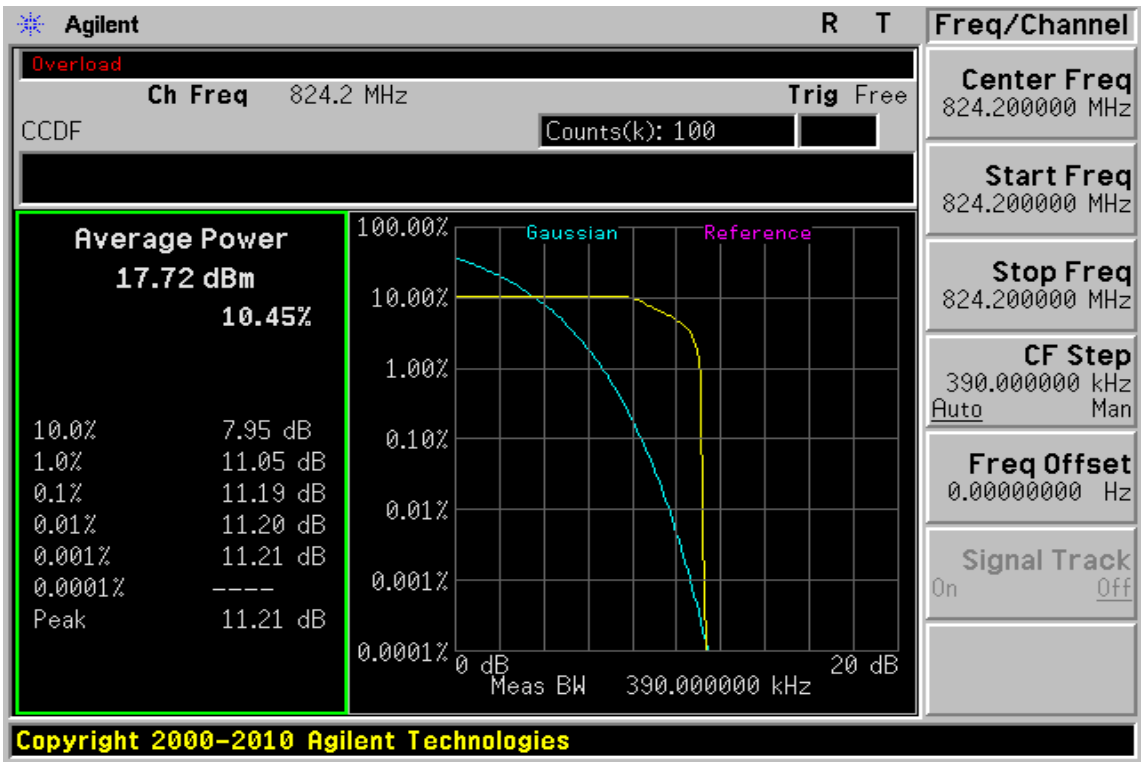
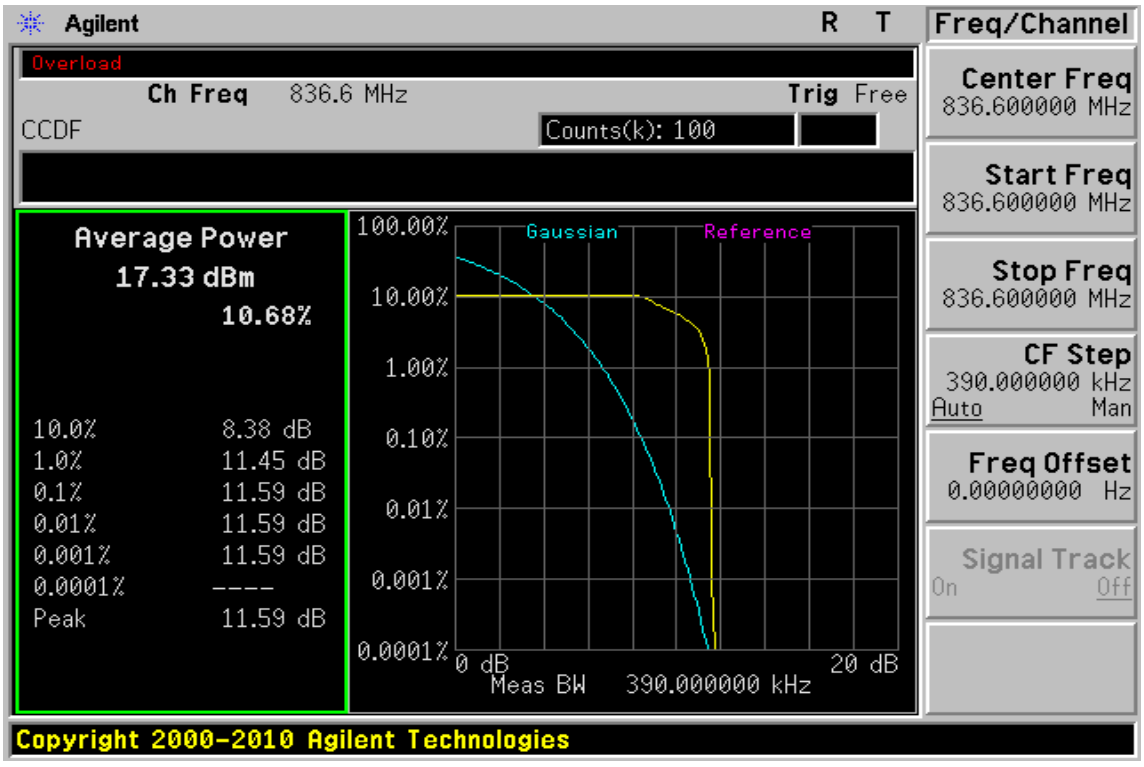
EDGE 850 Channel Low



EDGE 850 Channel Mid



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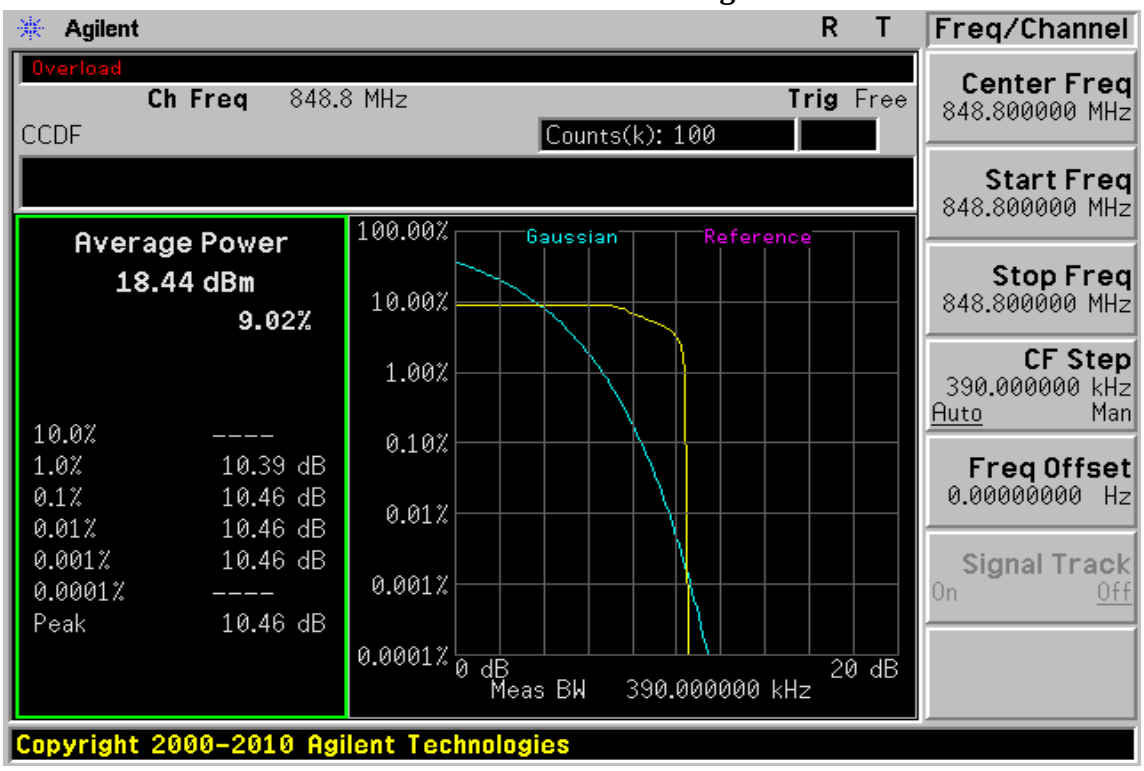
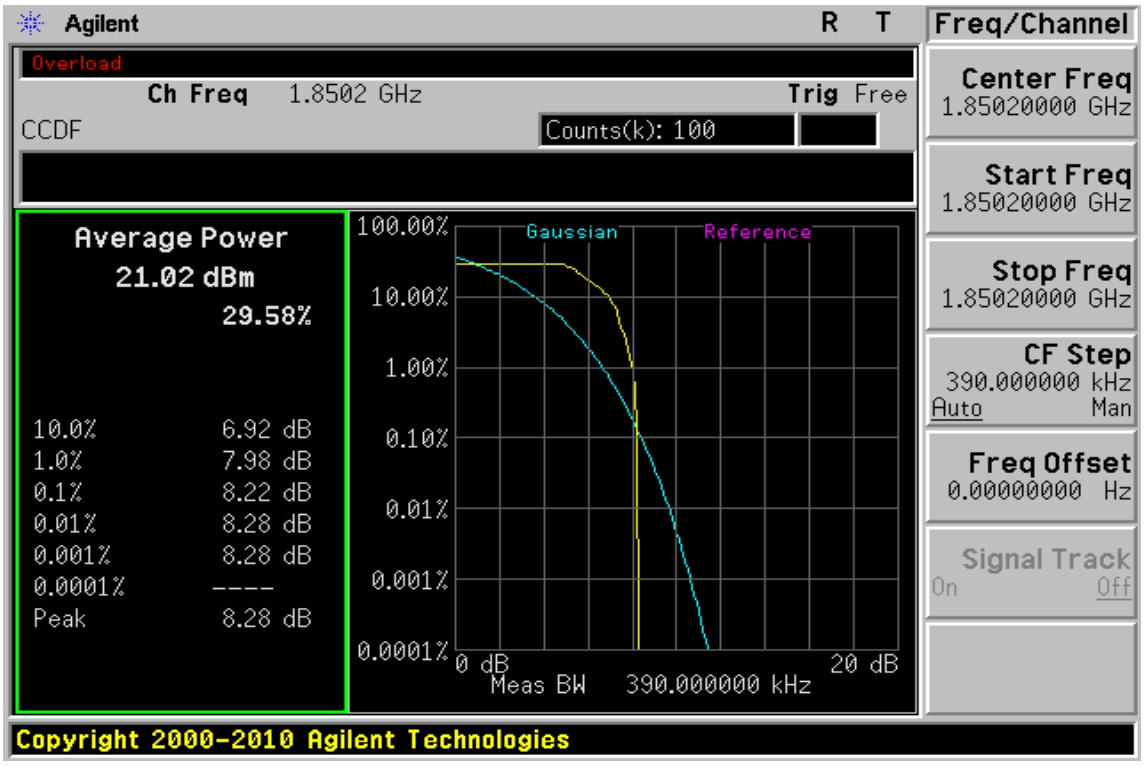
EDGE 850 Channel High



EDGE 1900 Channel Low



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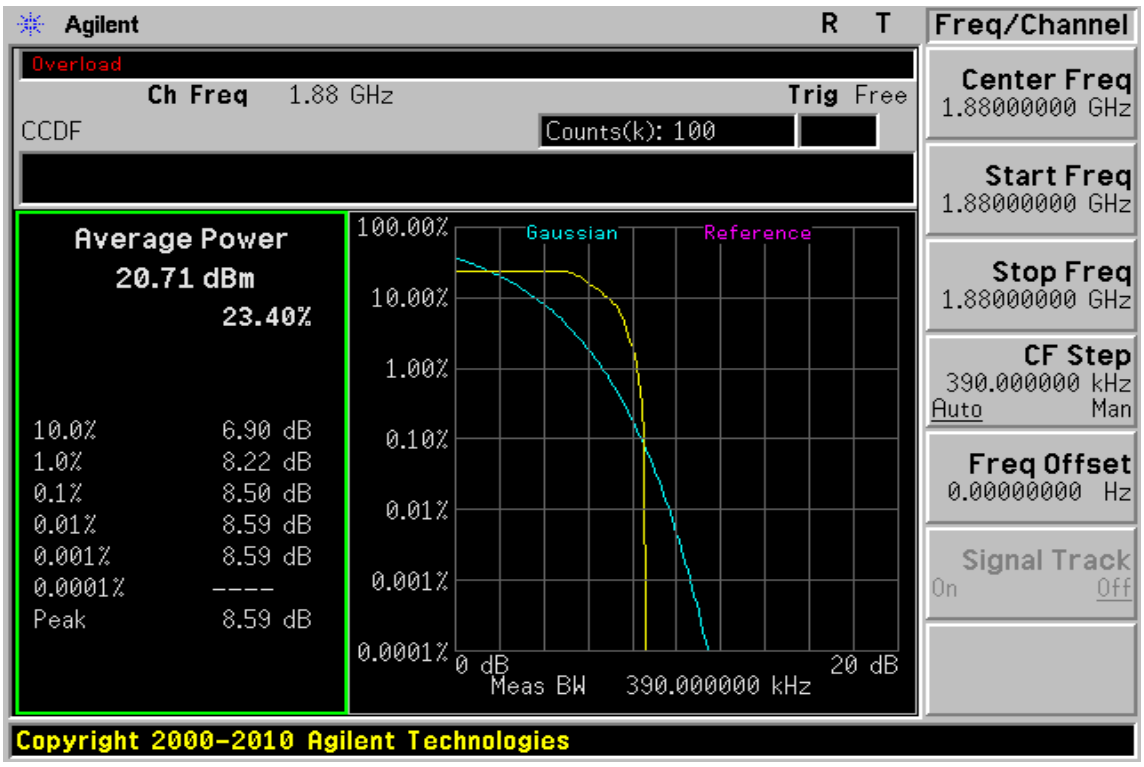
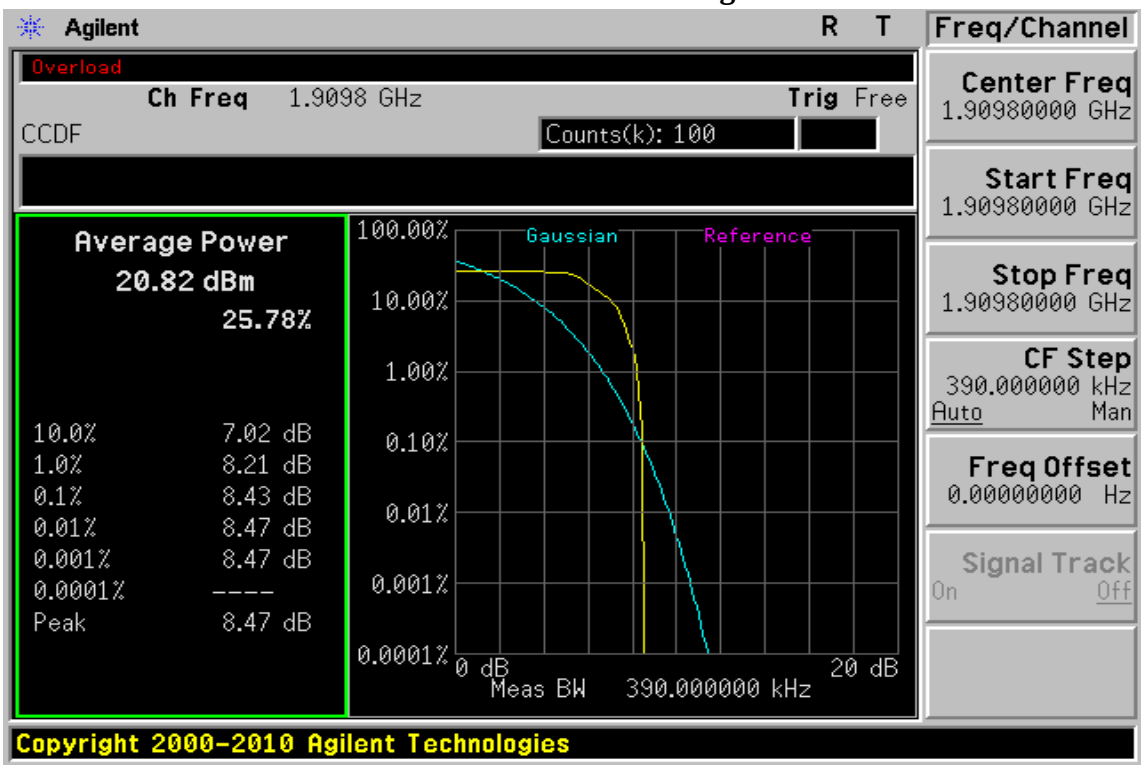
EDGE 1900 Channel Mid



EDGE 1900 Channel High



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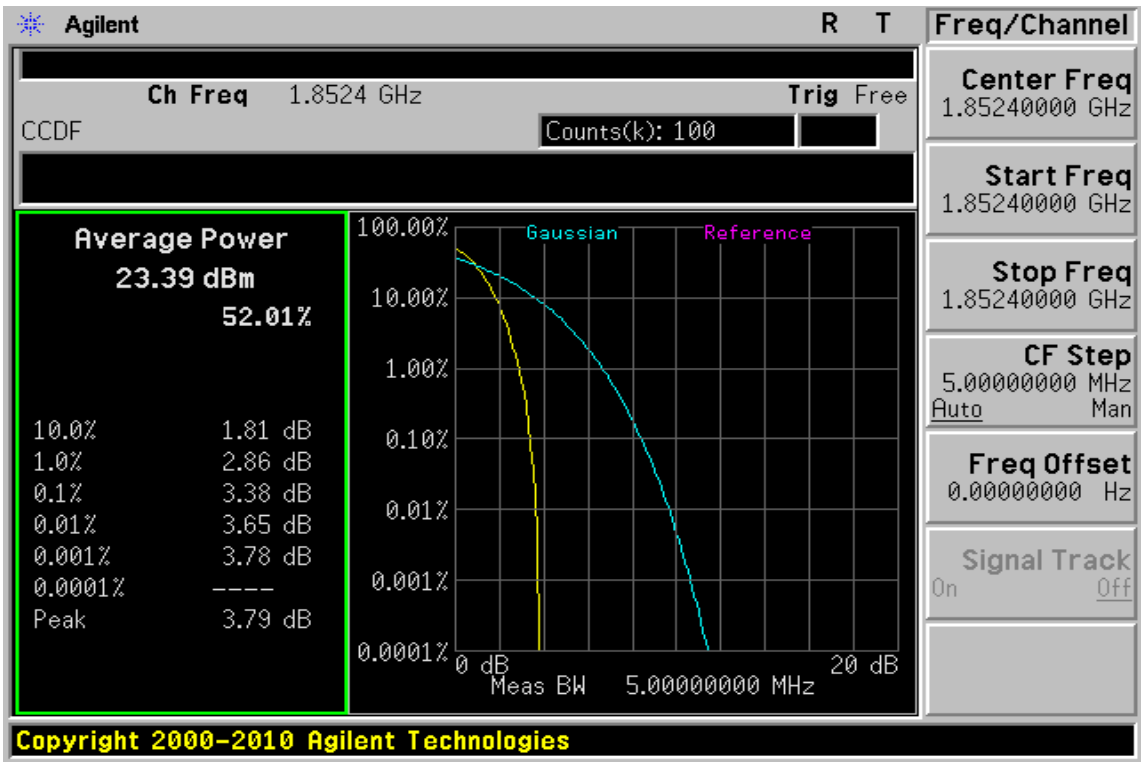
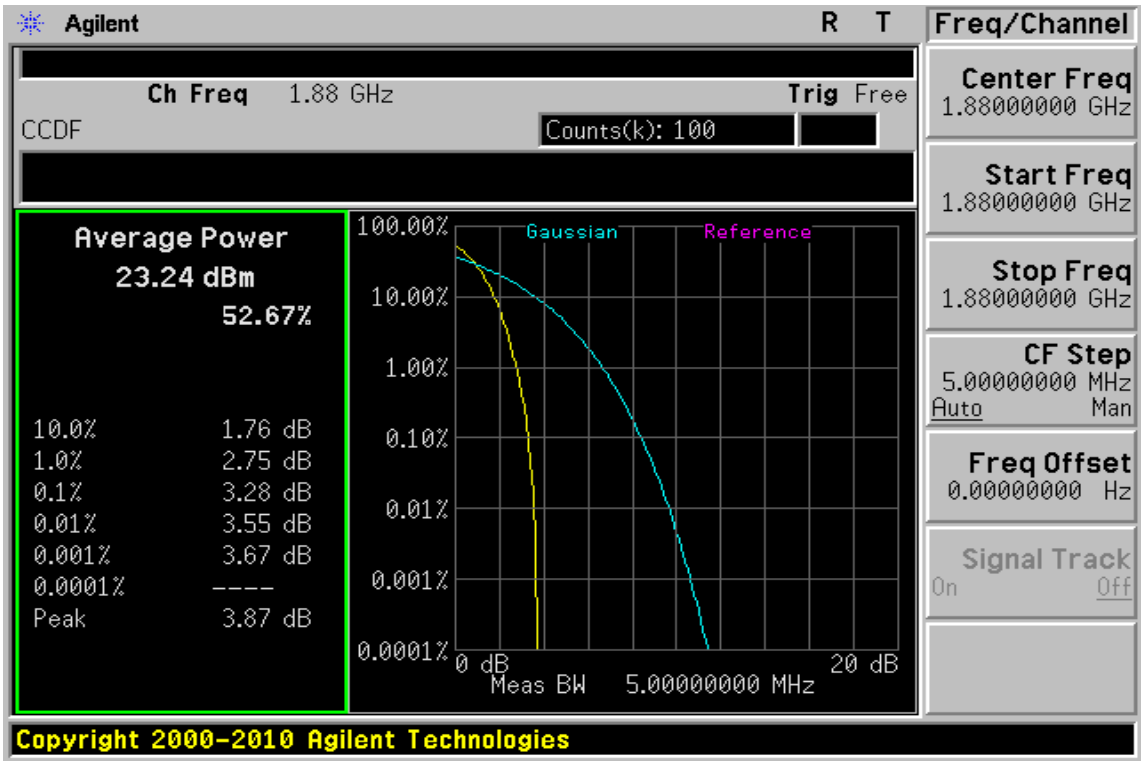
WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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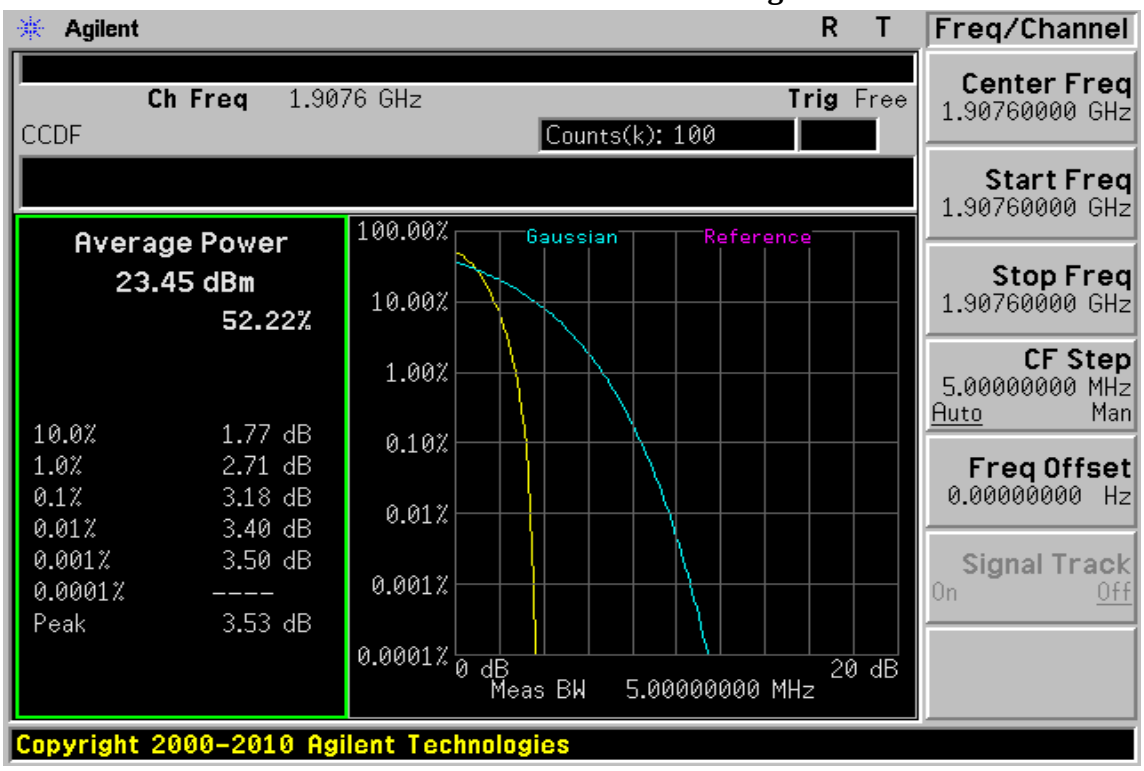
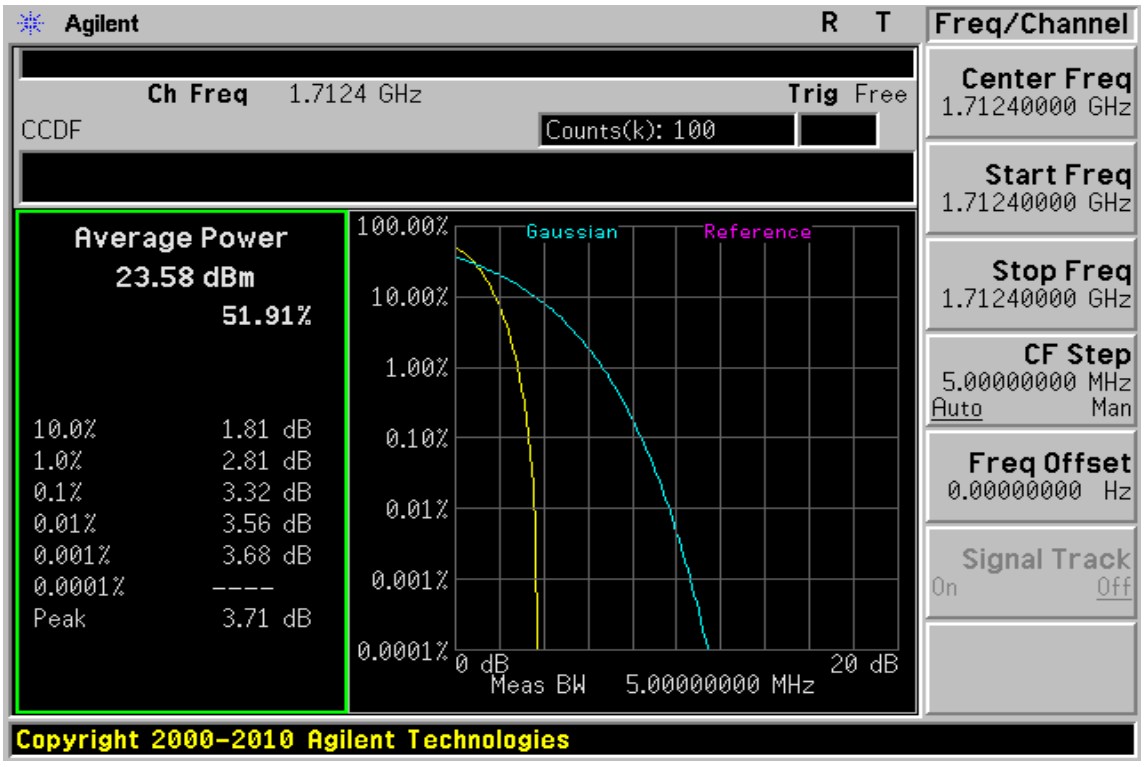
WCDMA Band II Channel High



WCDMA Band IV Channel Low



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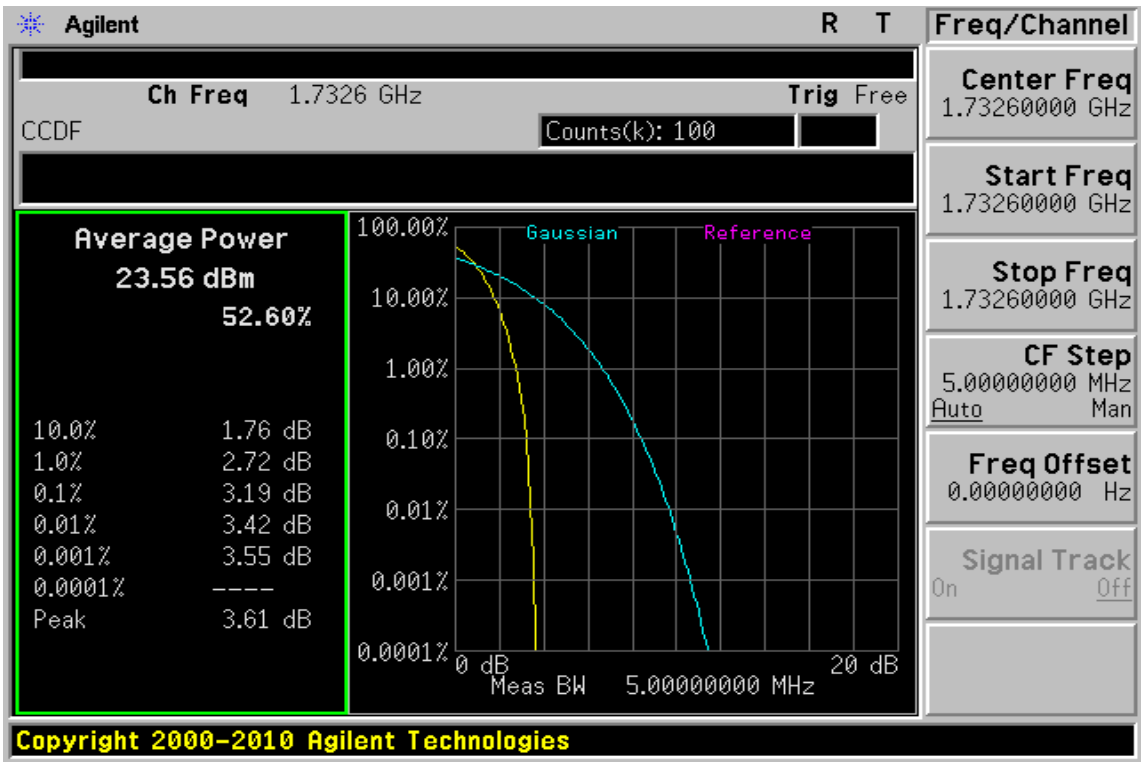
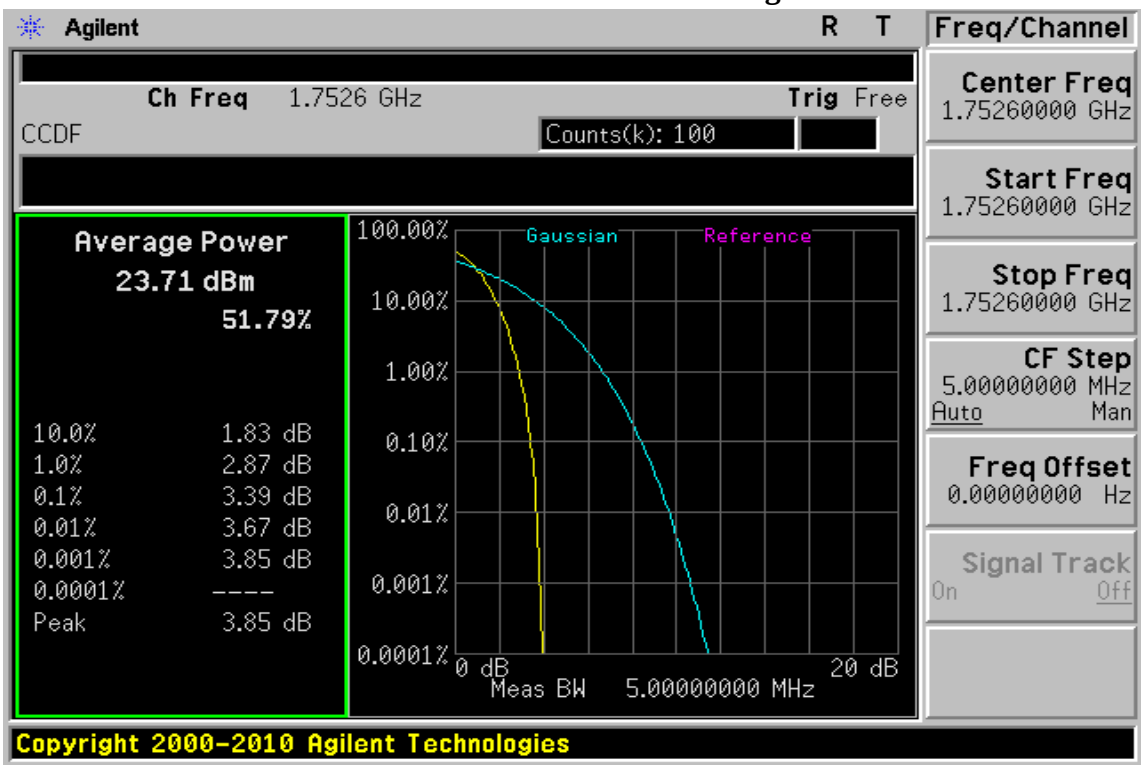
WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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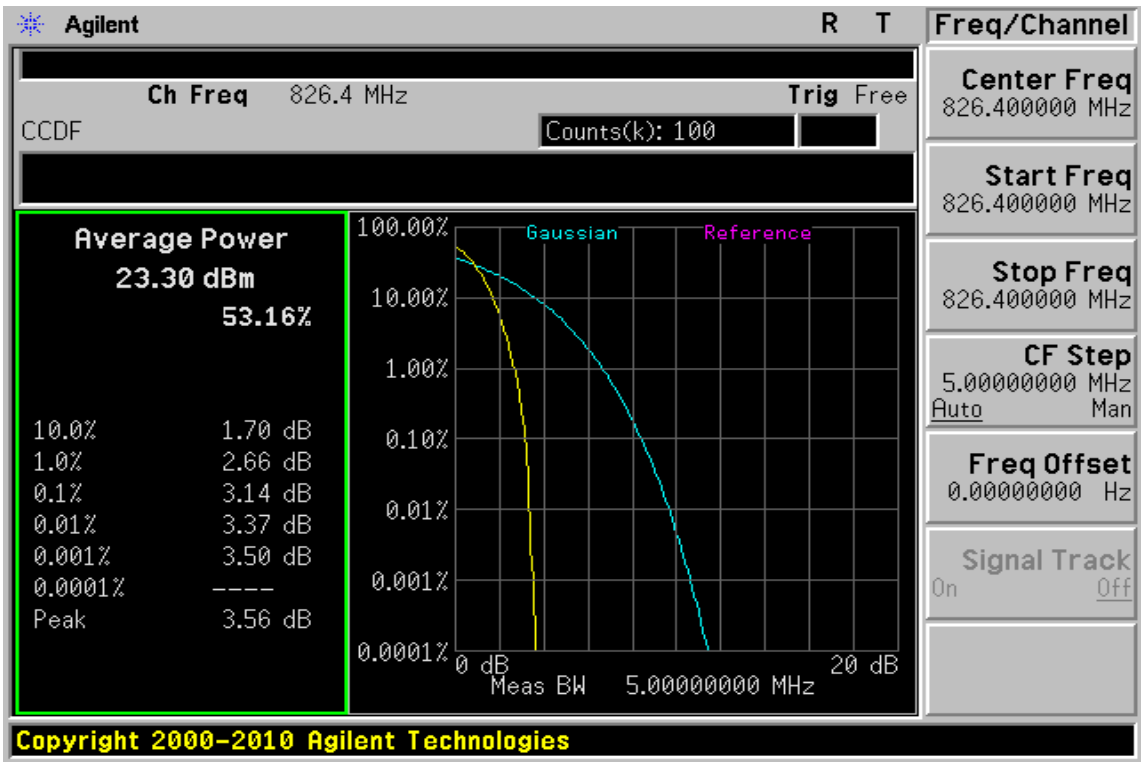
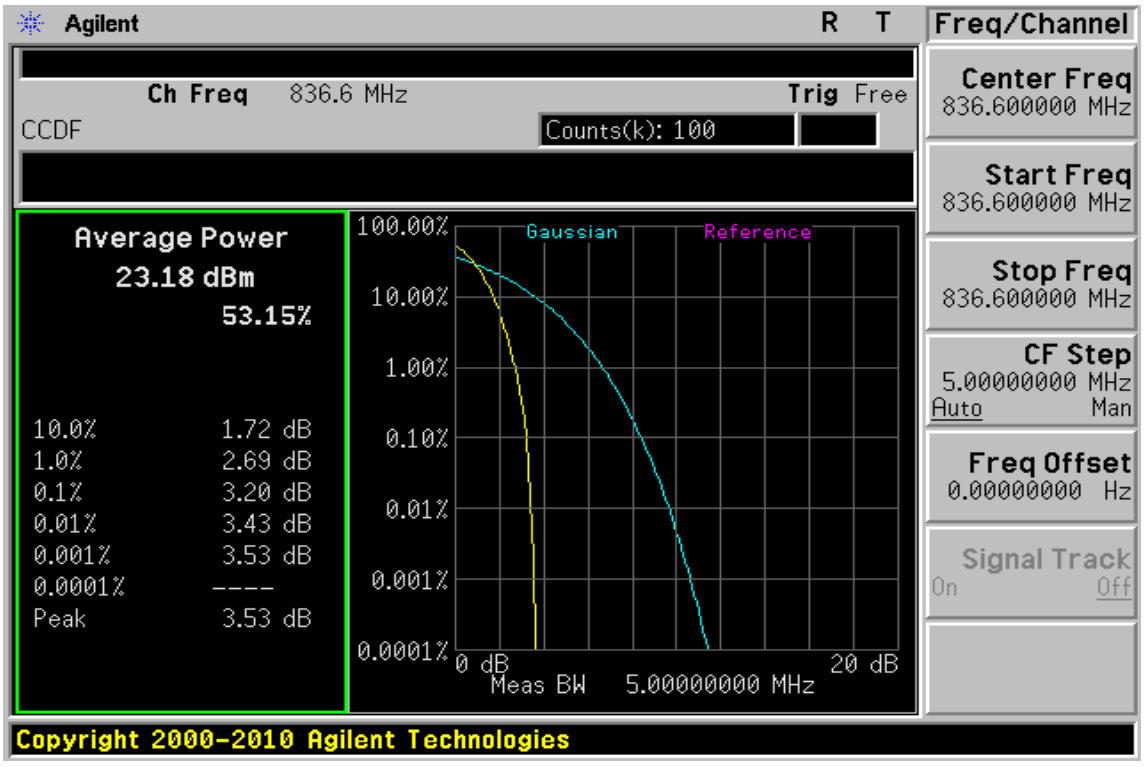
WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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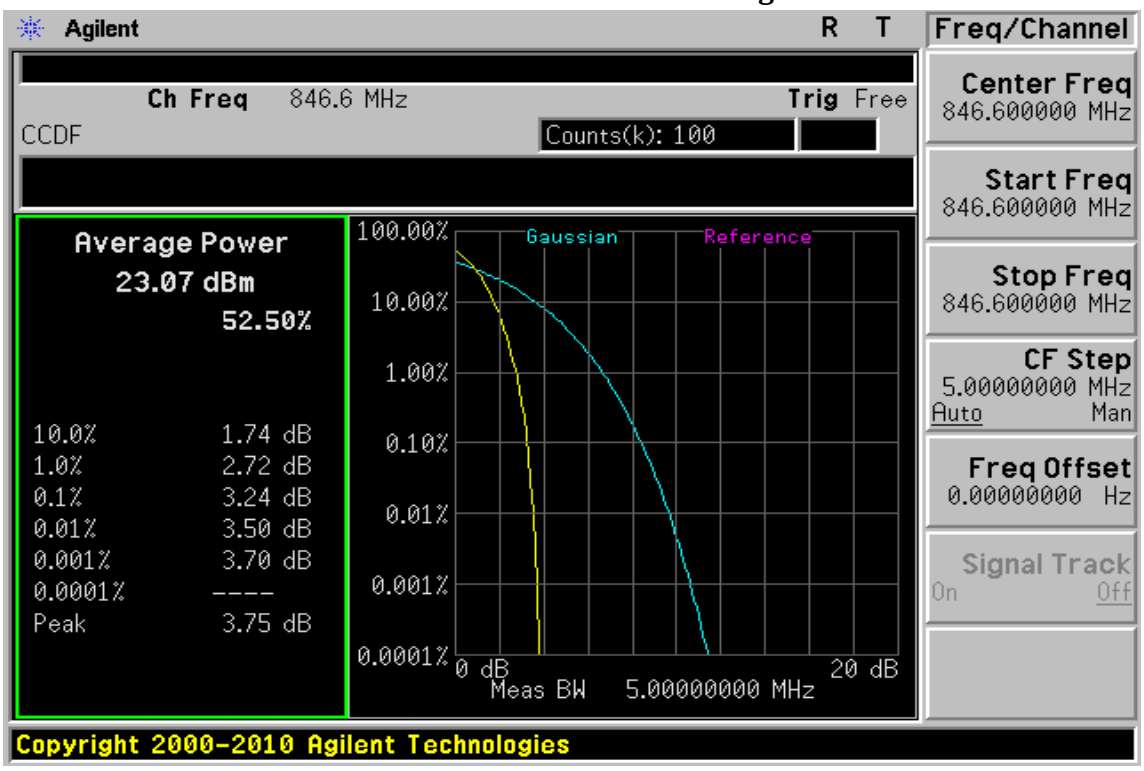
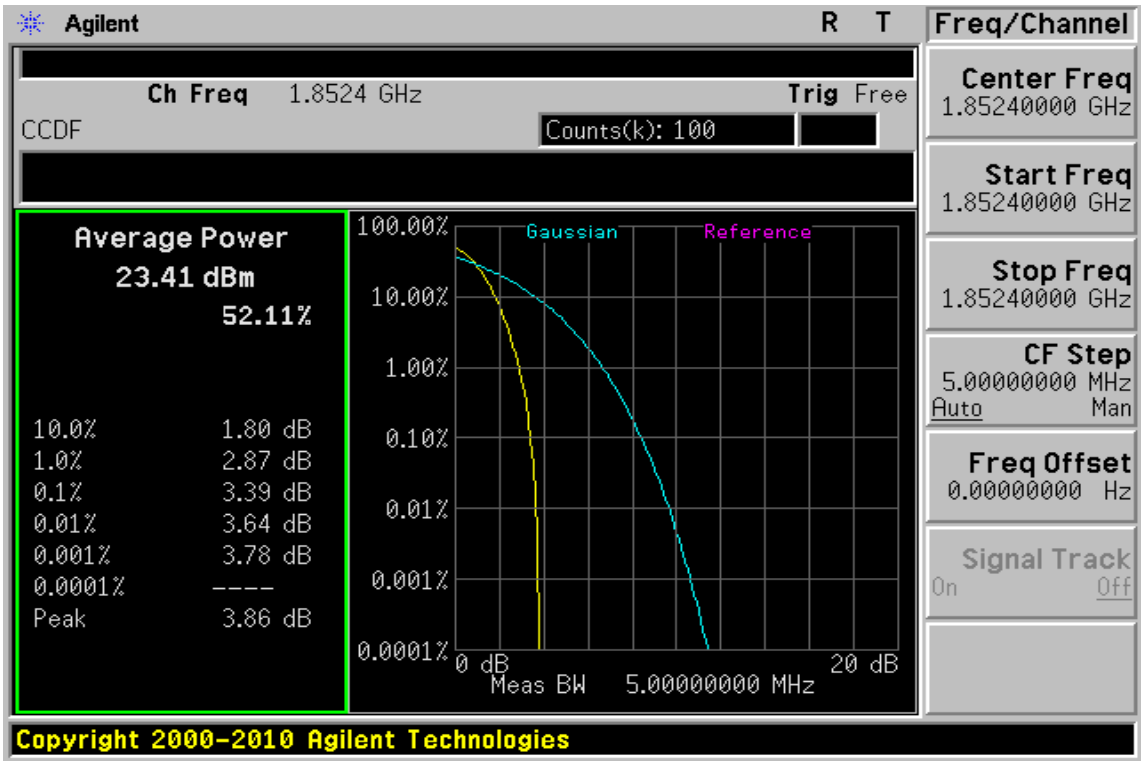
WCDMA Band V Channel High



HSDPA Band II Channel Low



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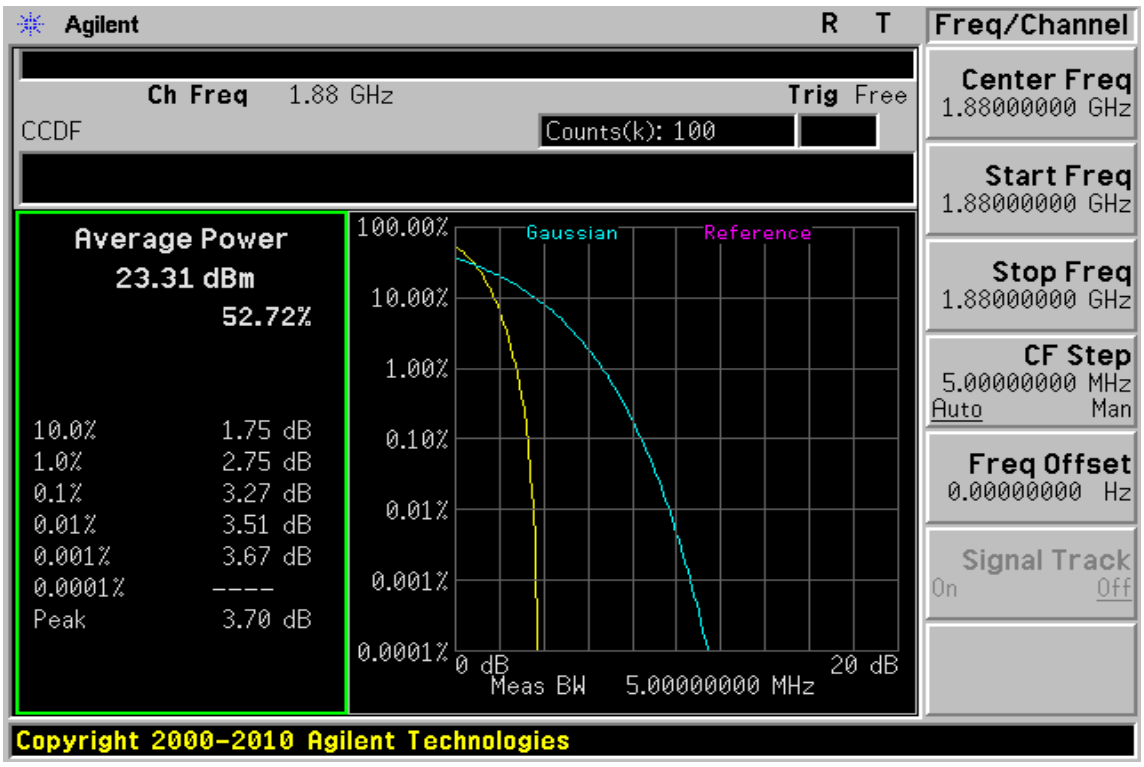
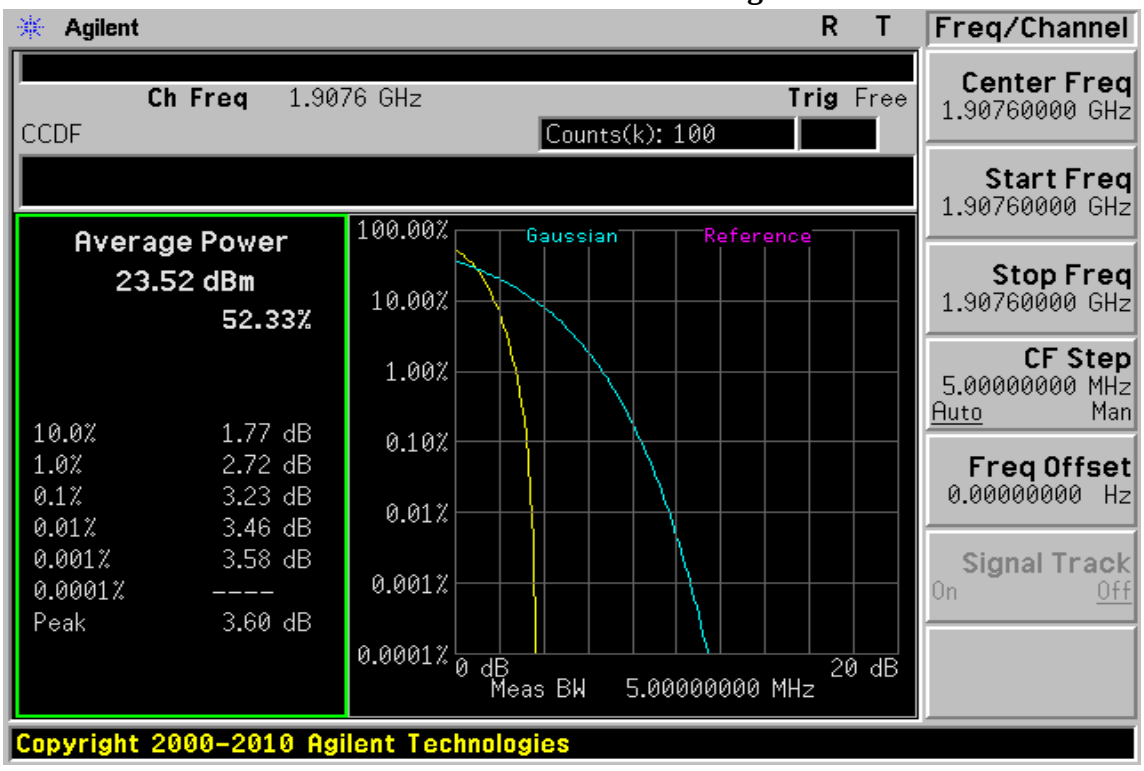
HSDPA Band II Channel Mid



HSDPA Band II Channel High



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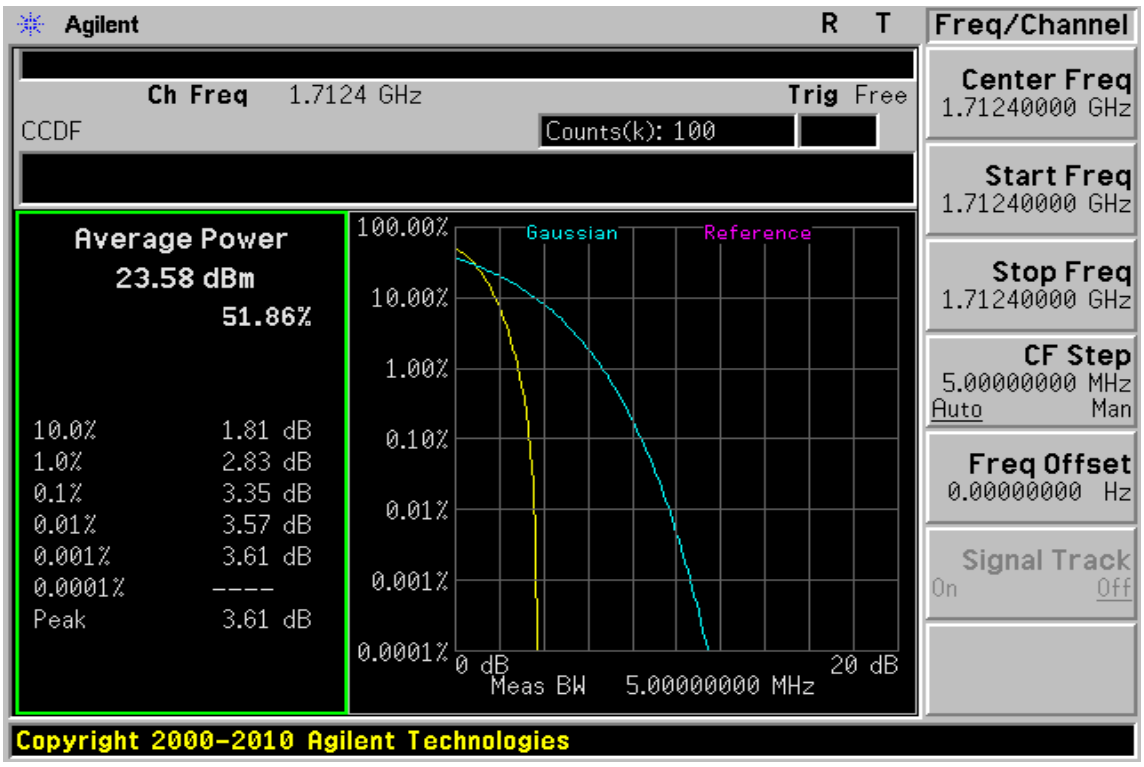
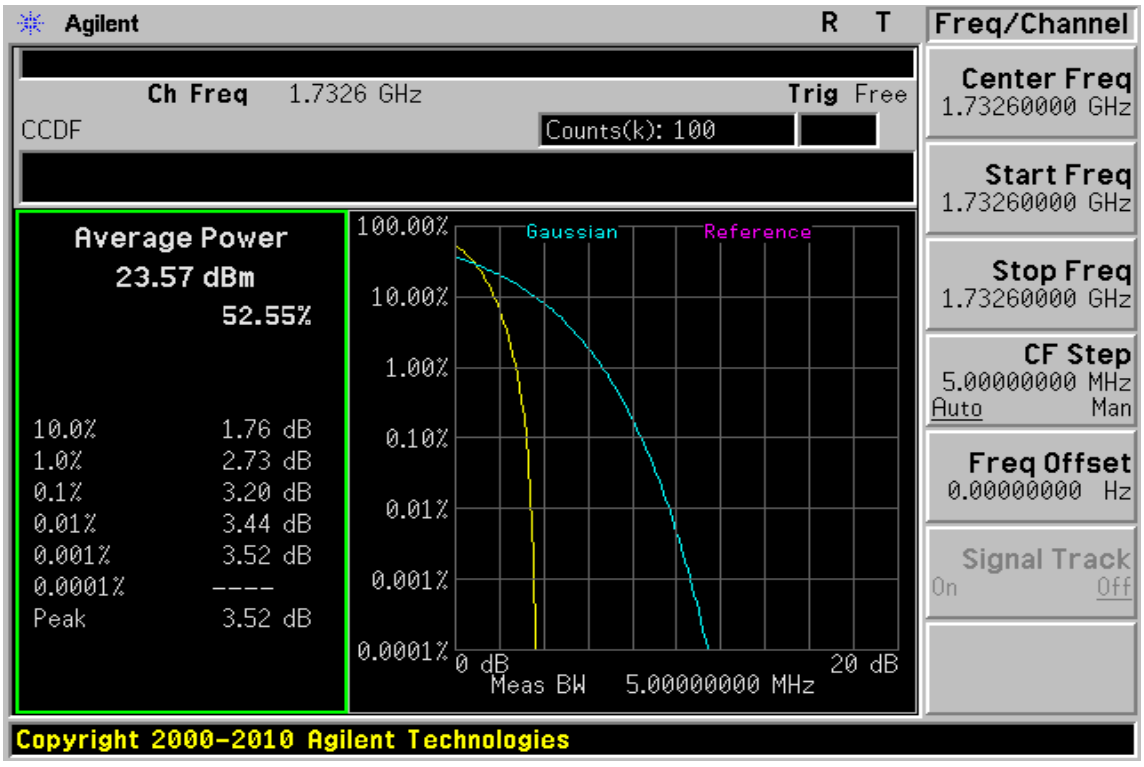
HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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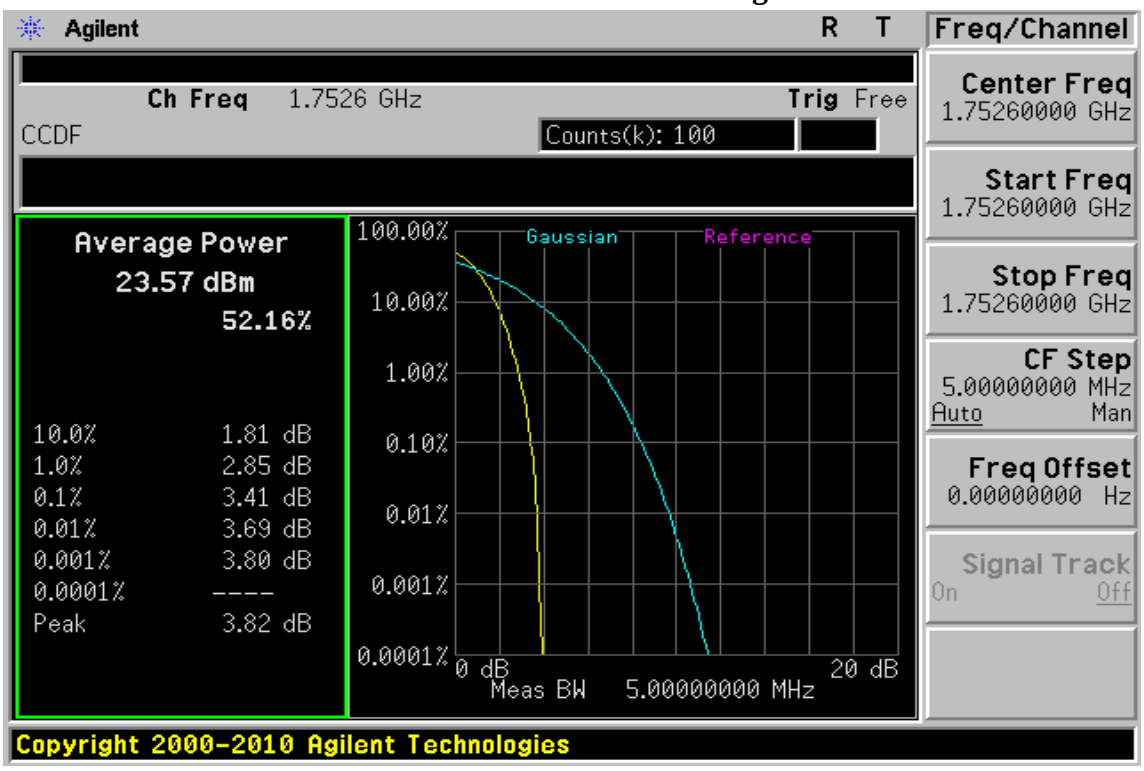
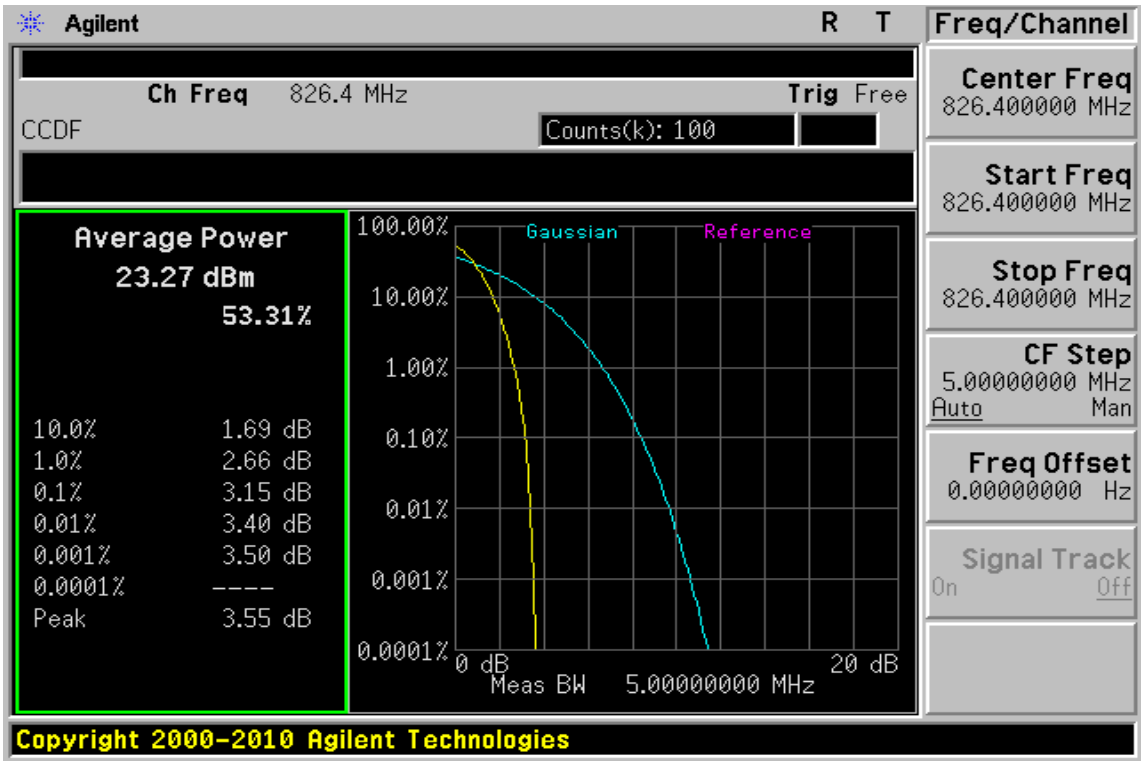
HSDPA Band IV Channel High



HSDPA Band V Channel Low



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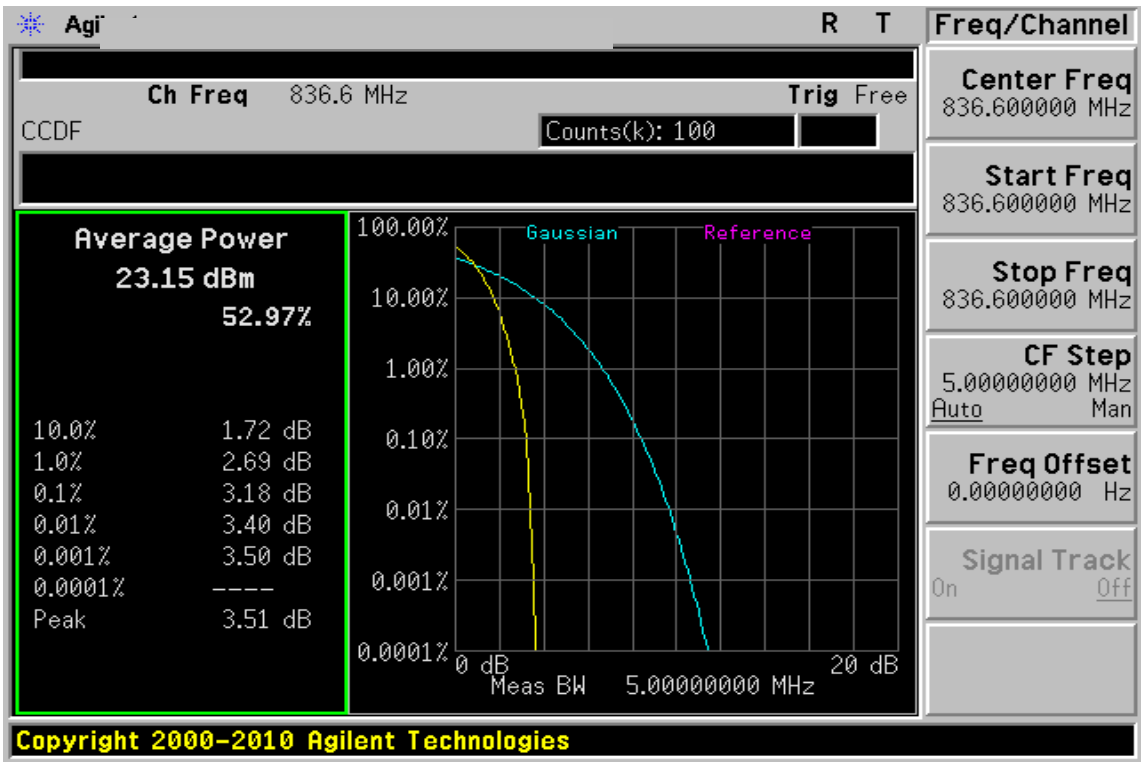
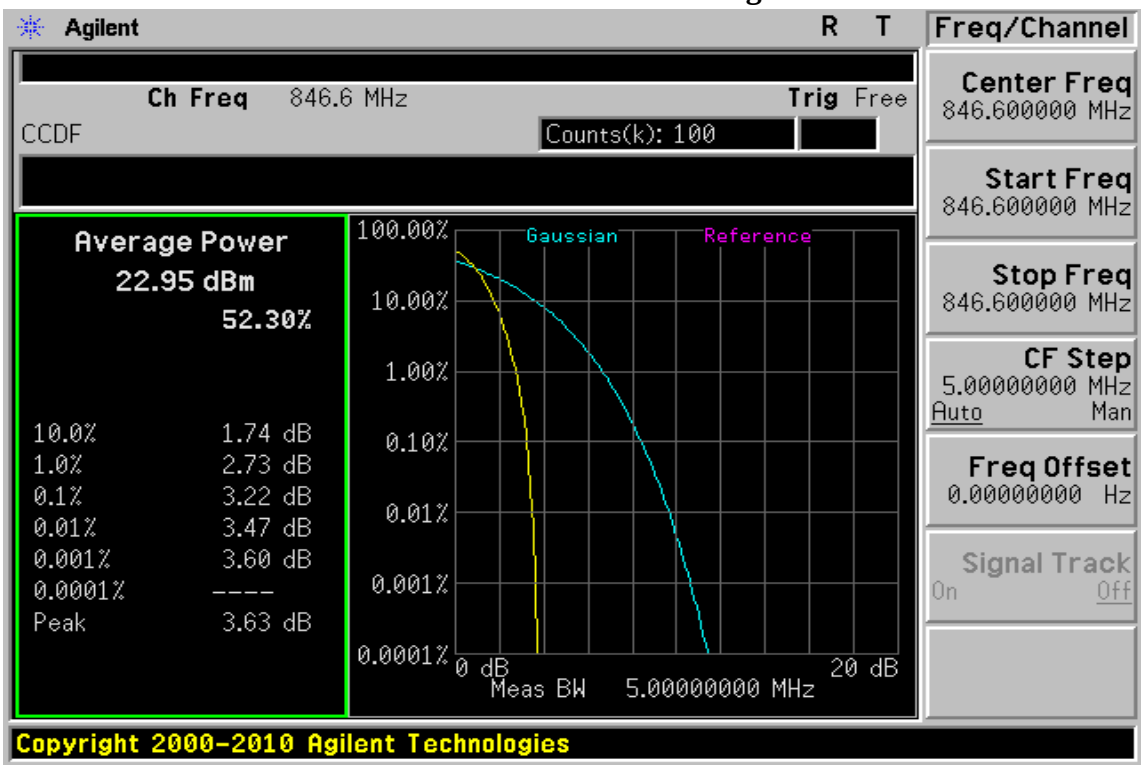
HSDPA Band V Channel Mid



HSDPA Band V Channel High



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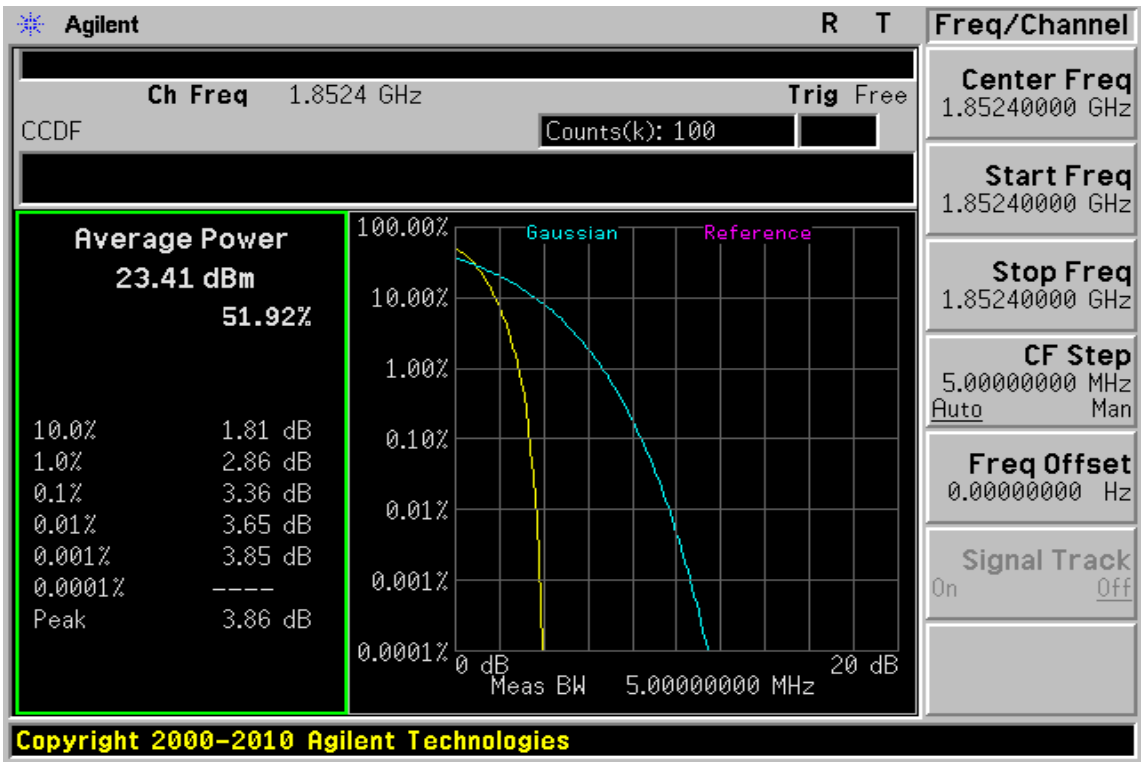
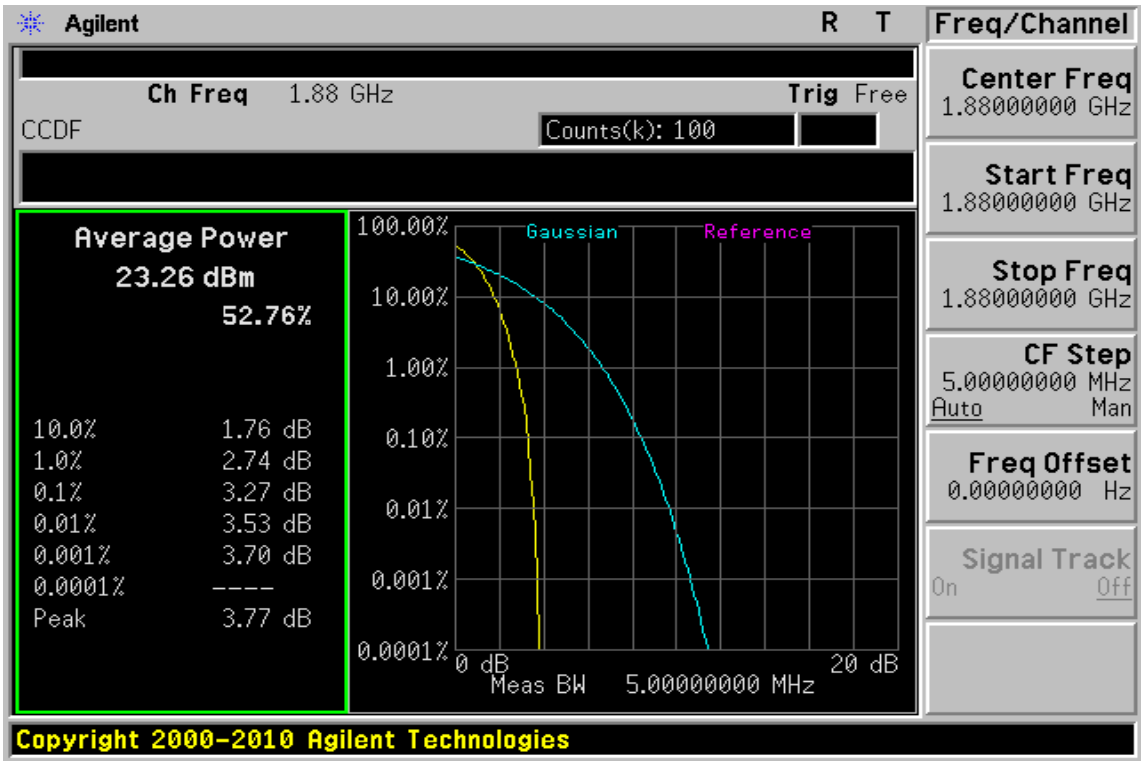
HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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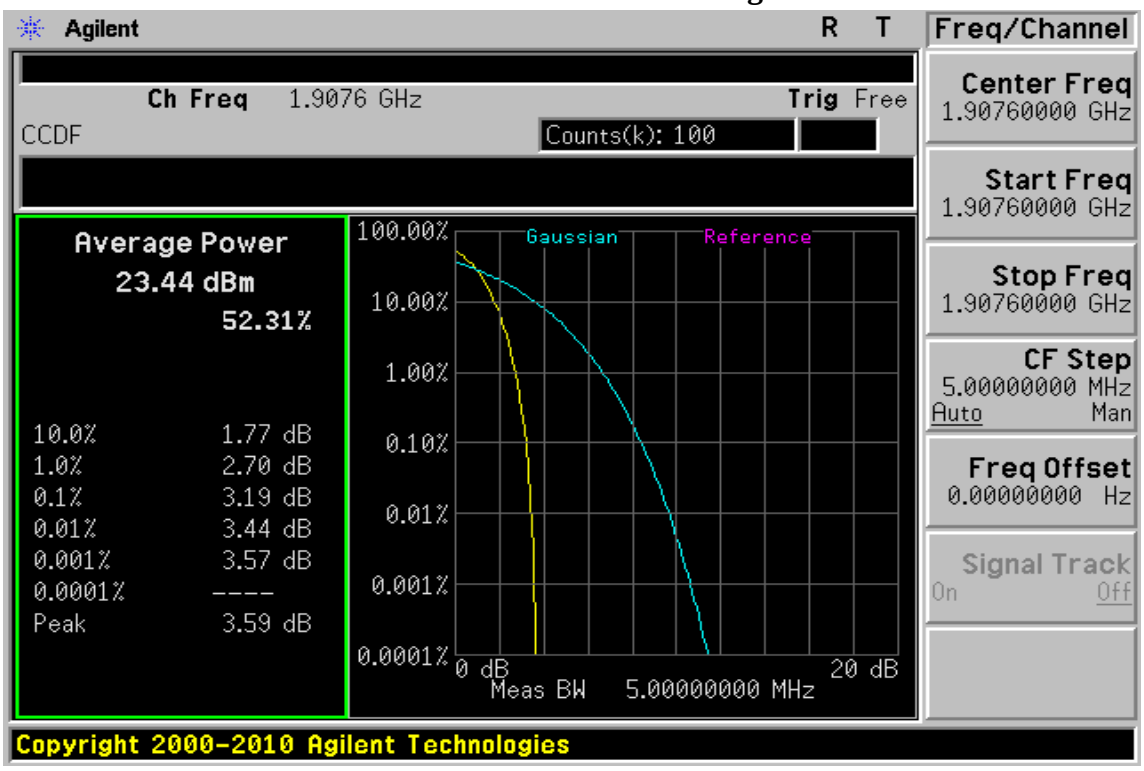
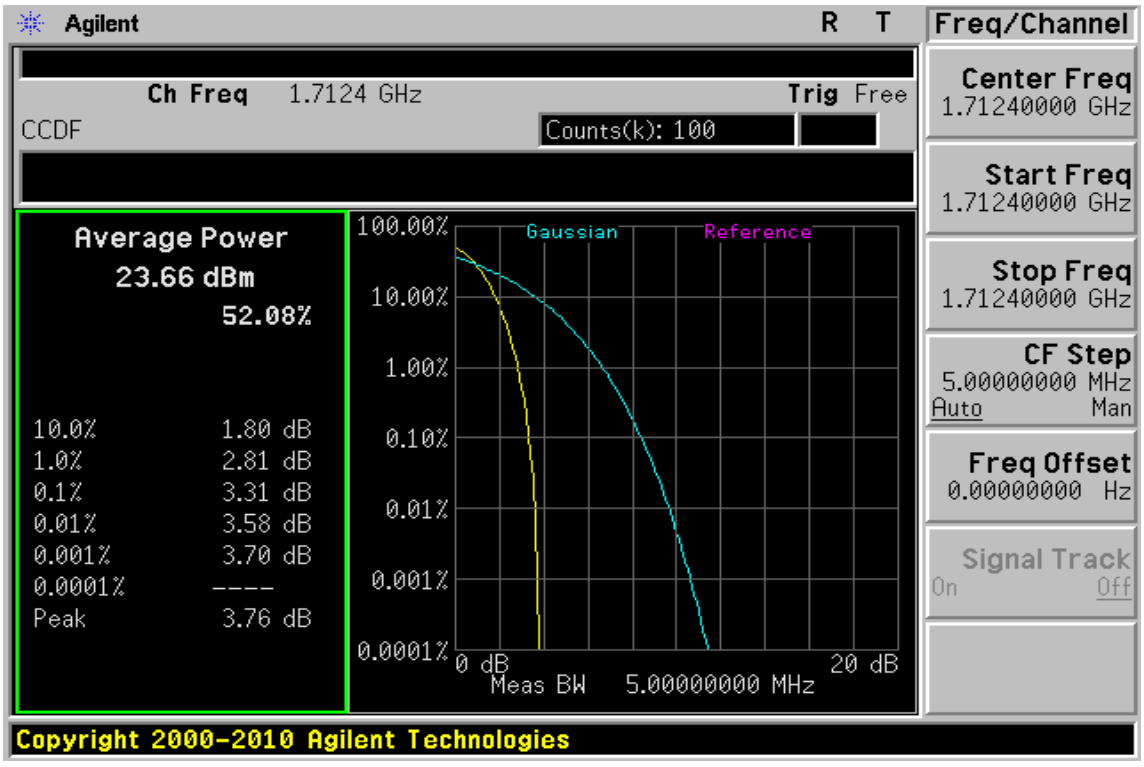
HSUPA Band II Channel High



HSUPA Band IV Channel Low



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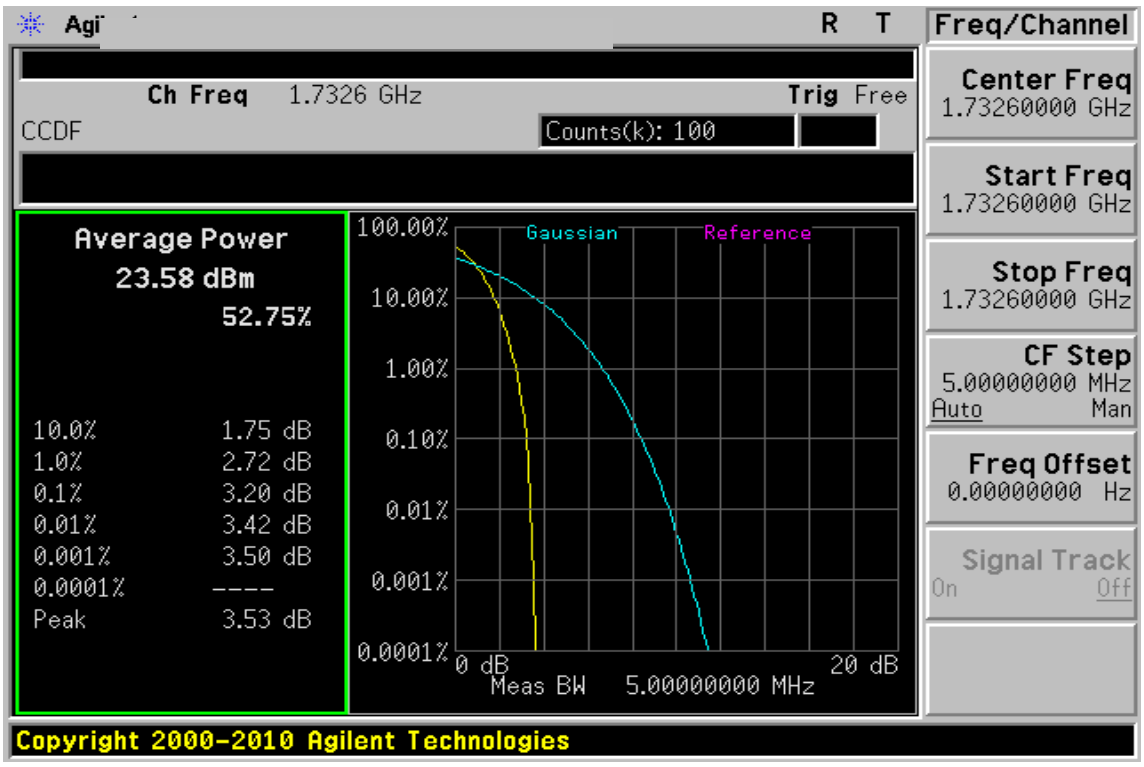
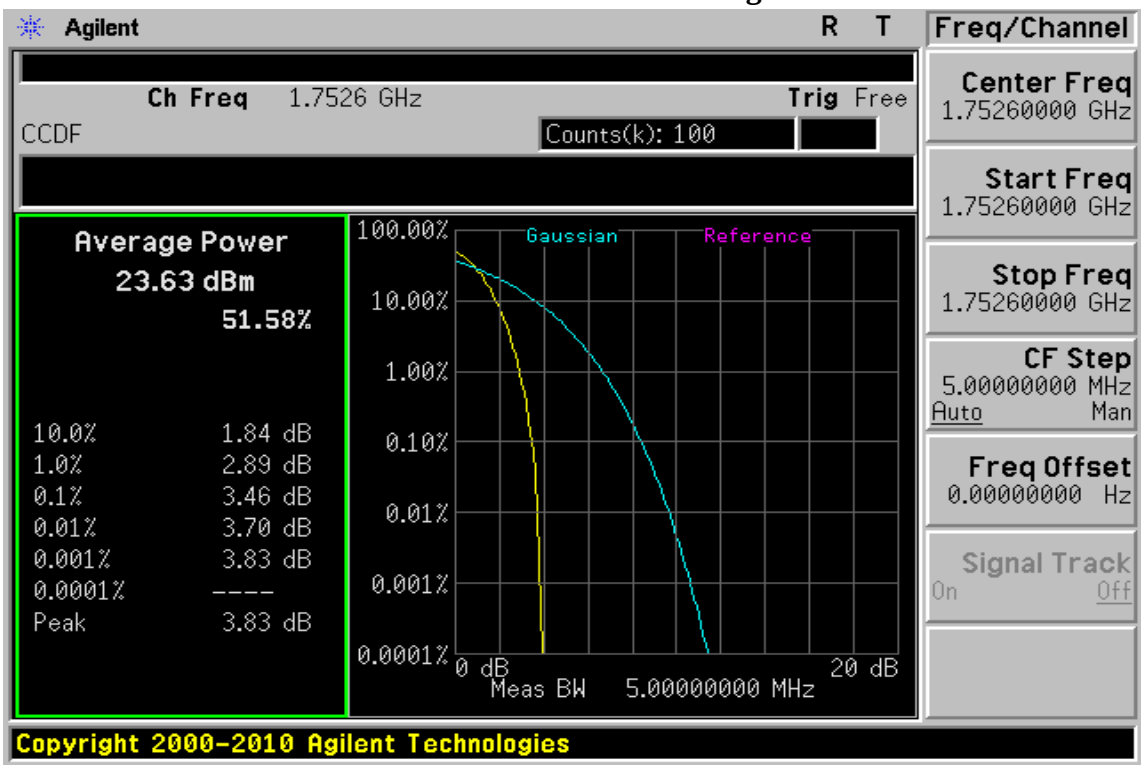
HSUPA Band IV Channel Mid



HSUPA Band V Channel High



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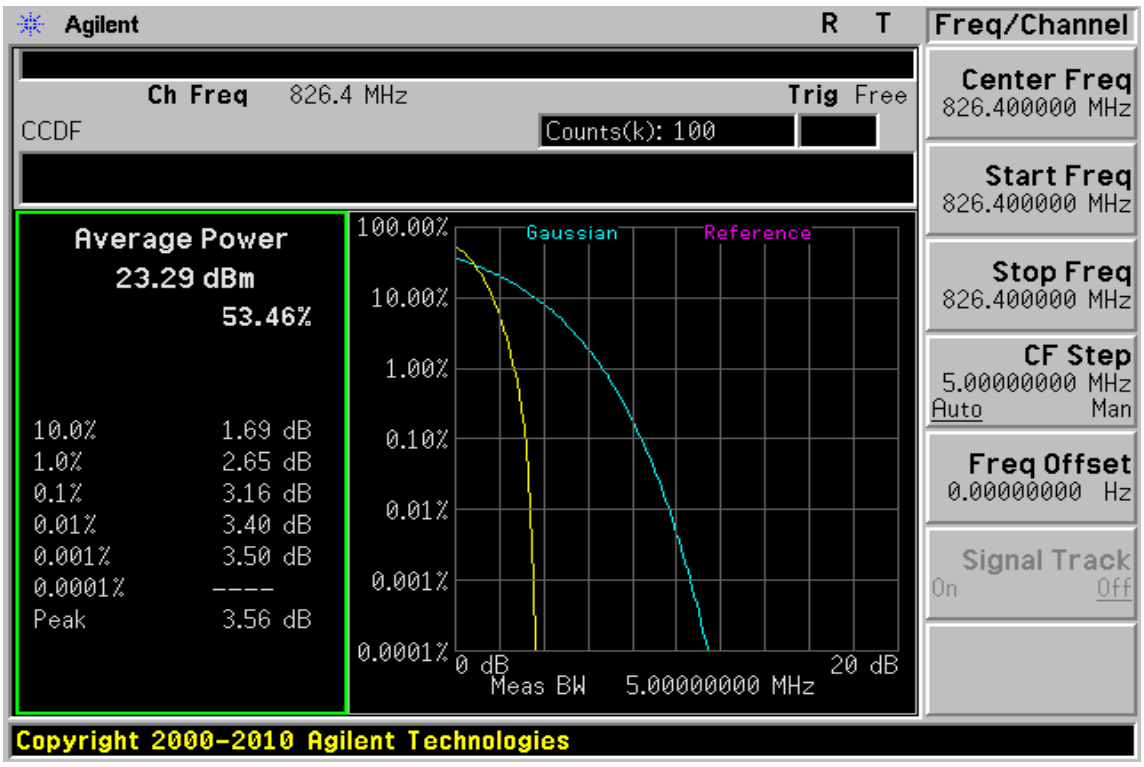
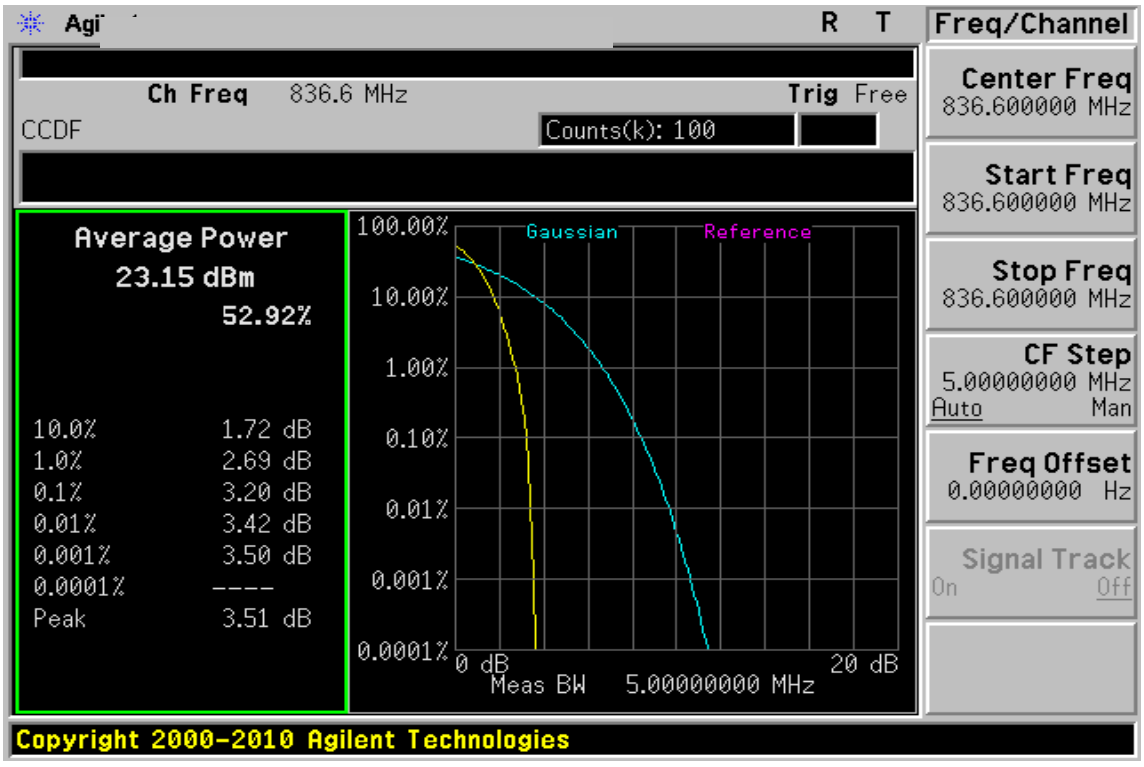
HSUPA Band V Channel Low



HSUPA Band V Channel Mid



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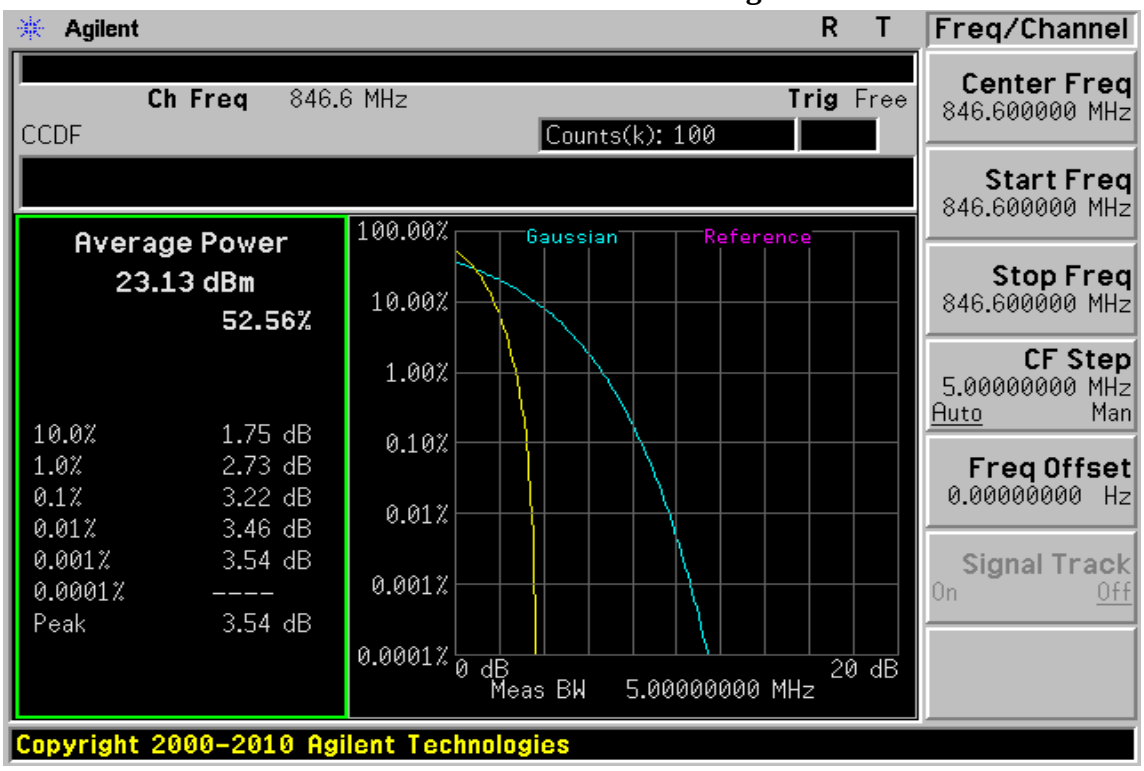
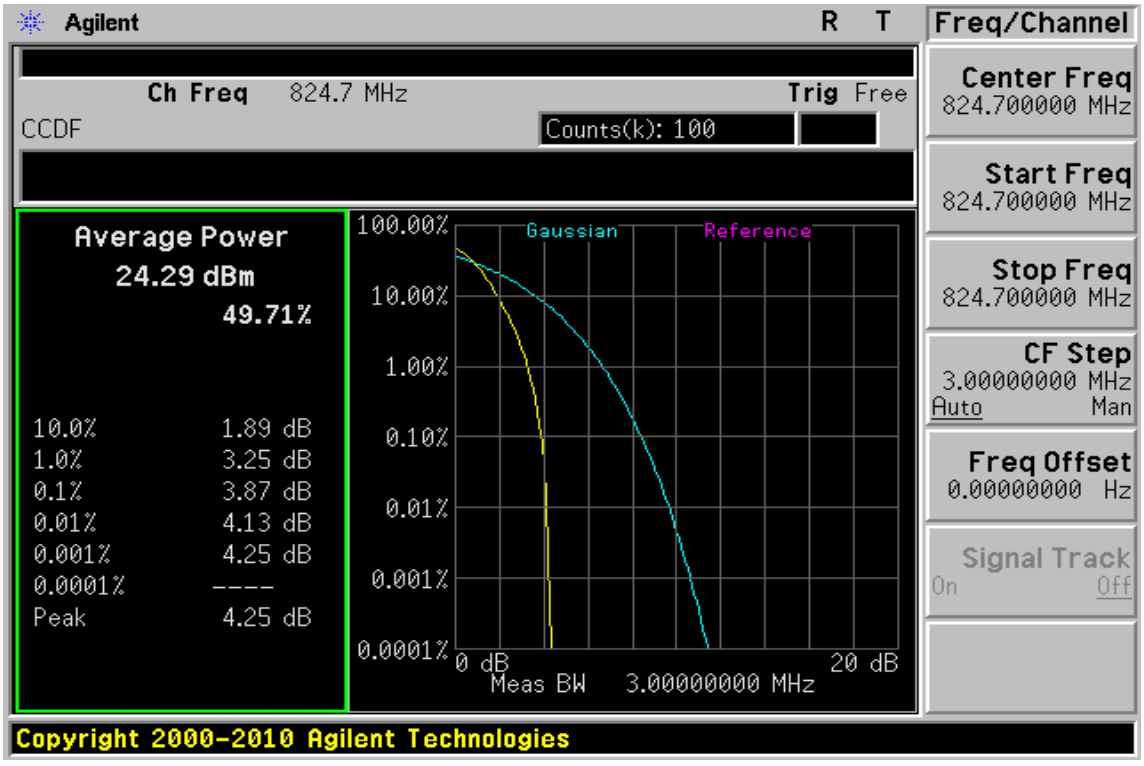
HSUPA Band V Channel High



CDMA BC0 Channel Low



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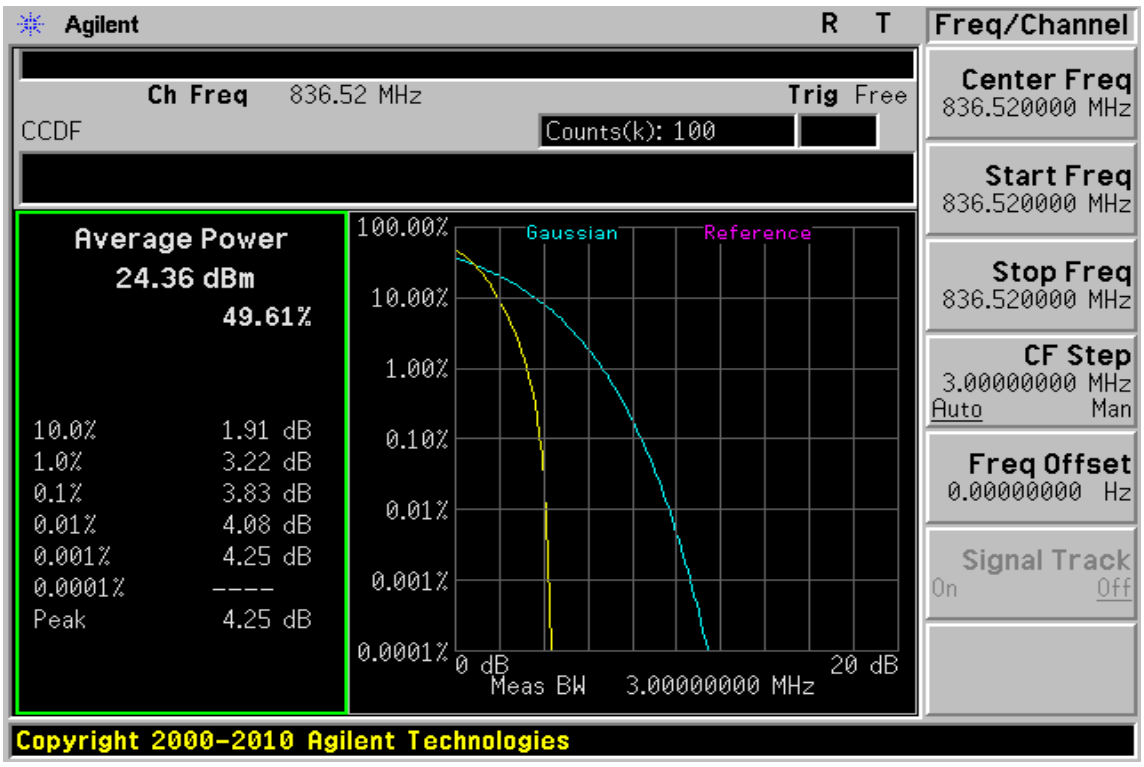
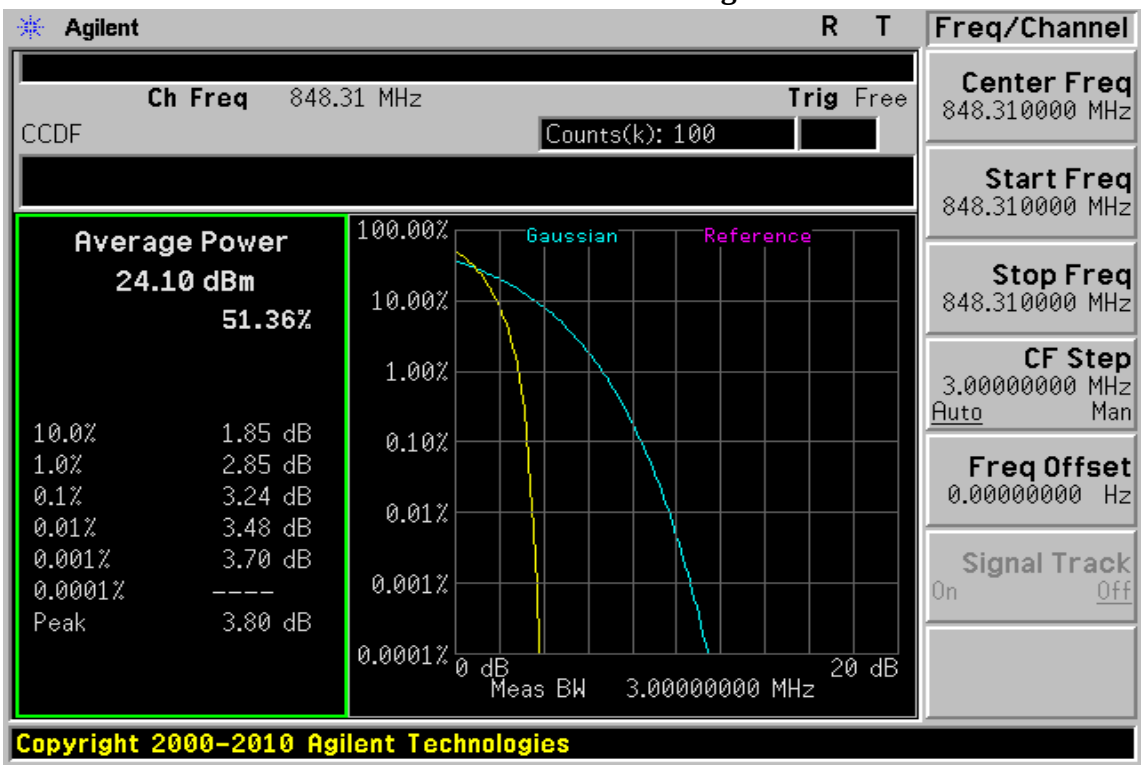
CDMA BC0 Channel Mid



CDMA BC0 Channel High



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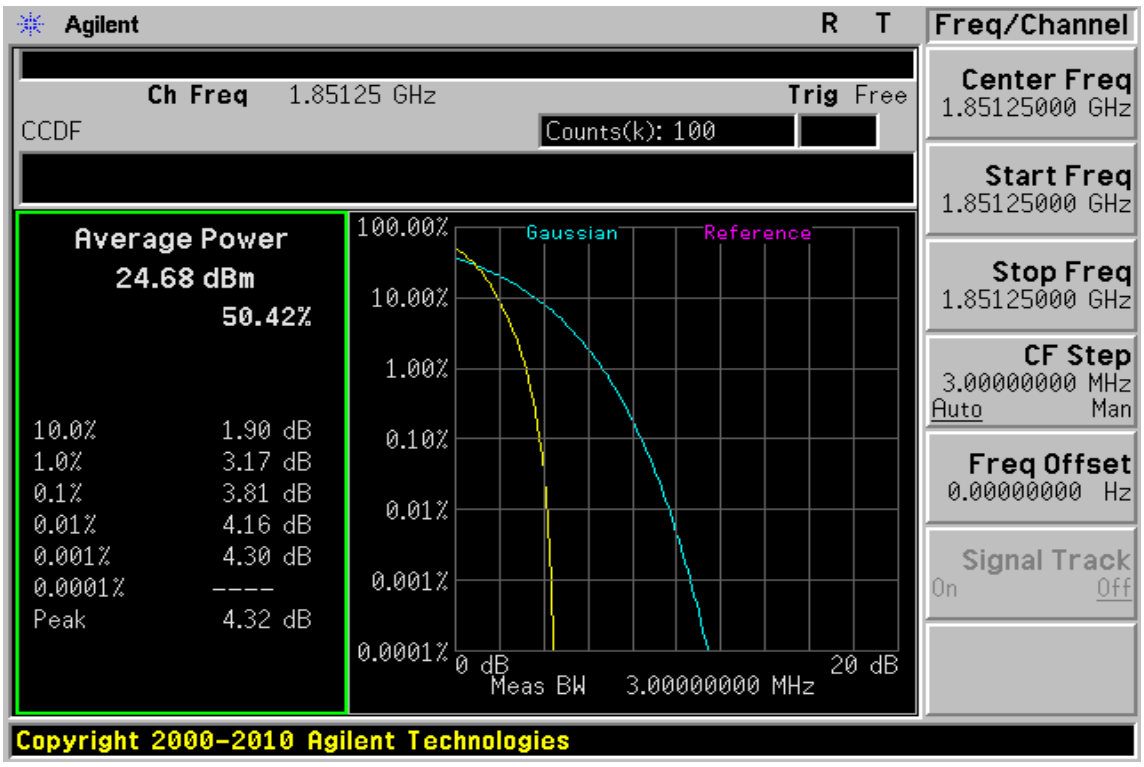
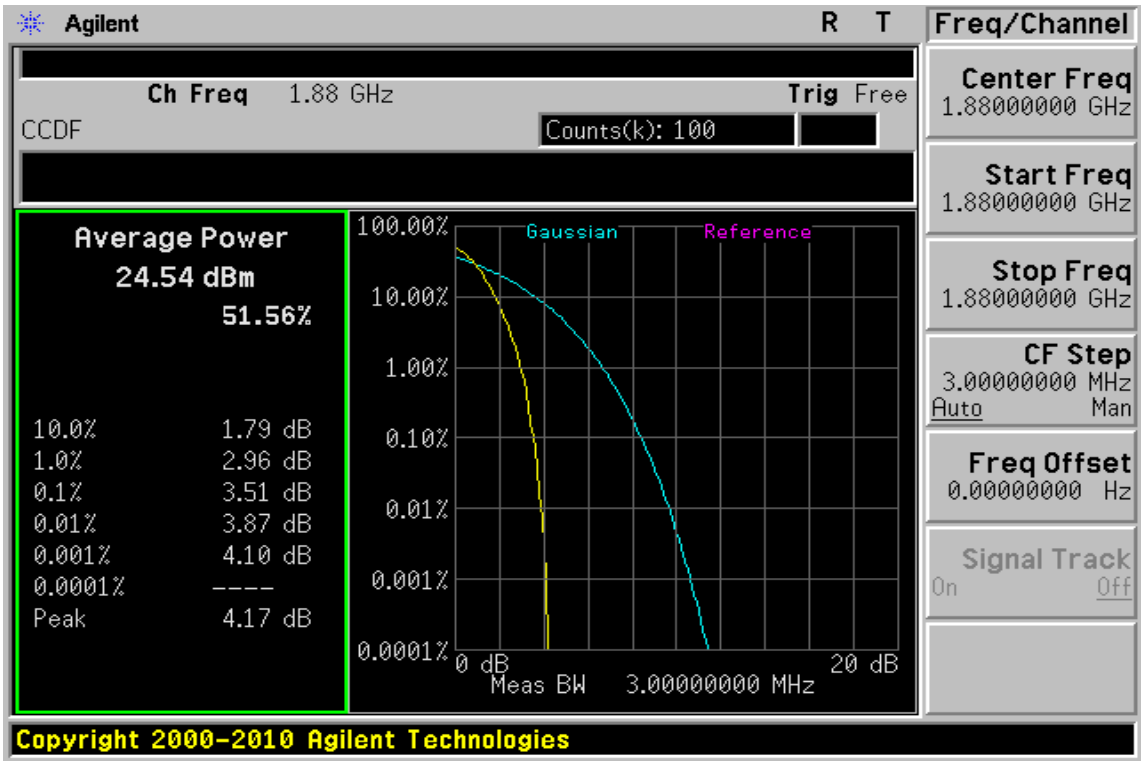
CDMA BC1 Channel Low



CDMA BC1 Channel Mid



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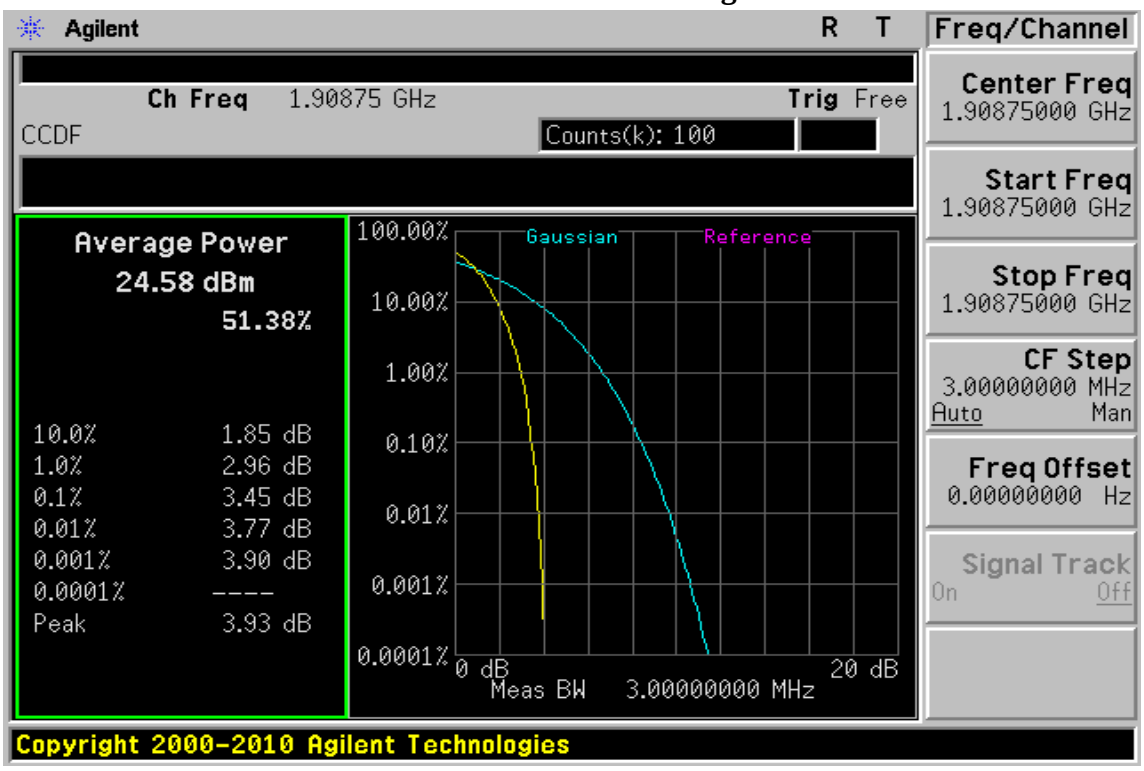
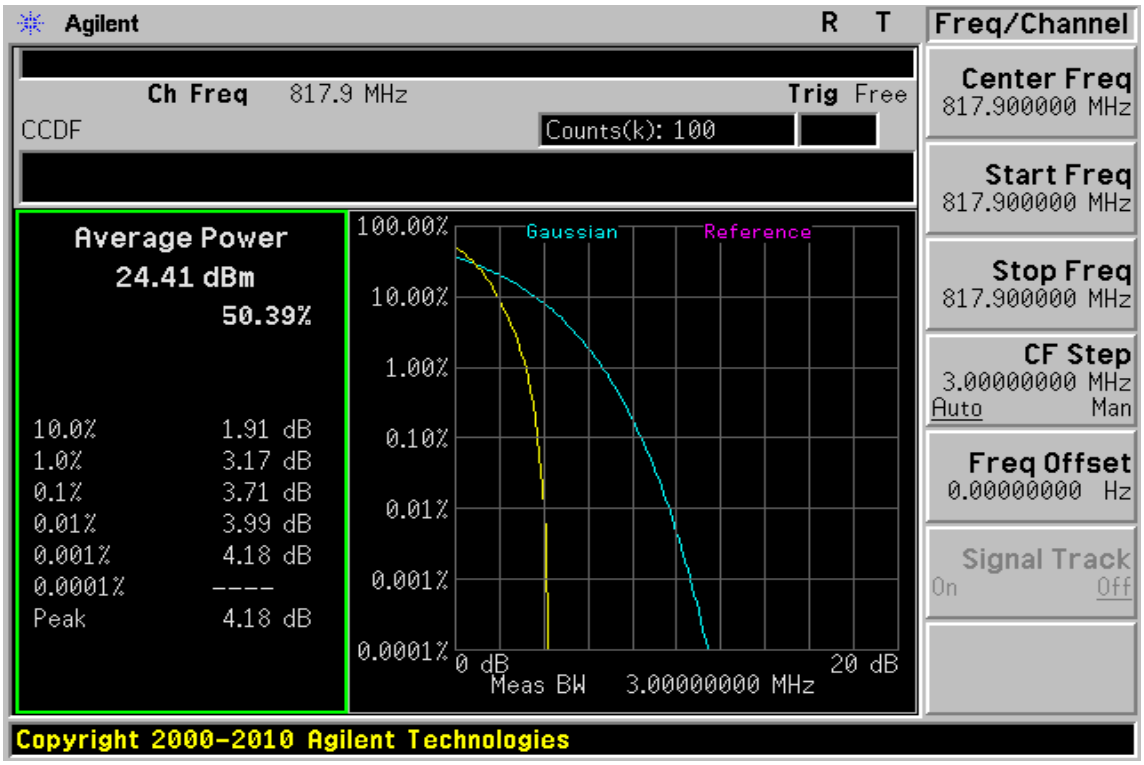
CDMA BC1 Channel High



CDMA BC10 Channel Low



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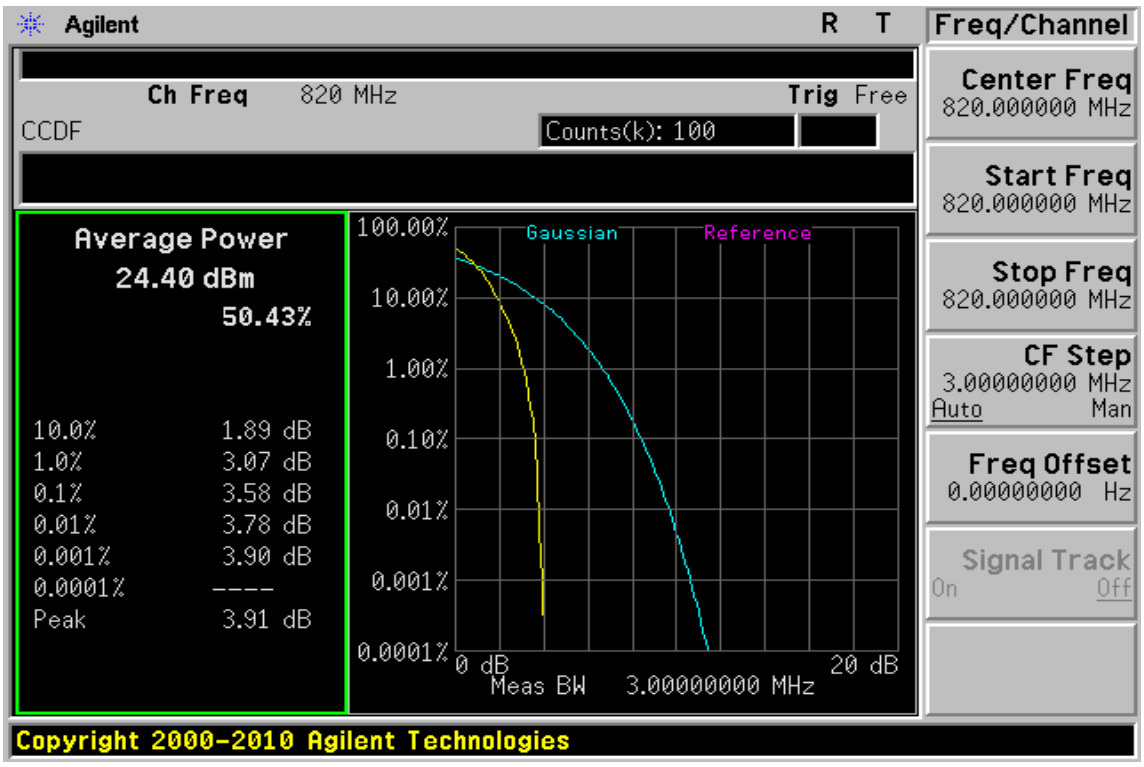
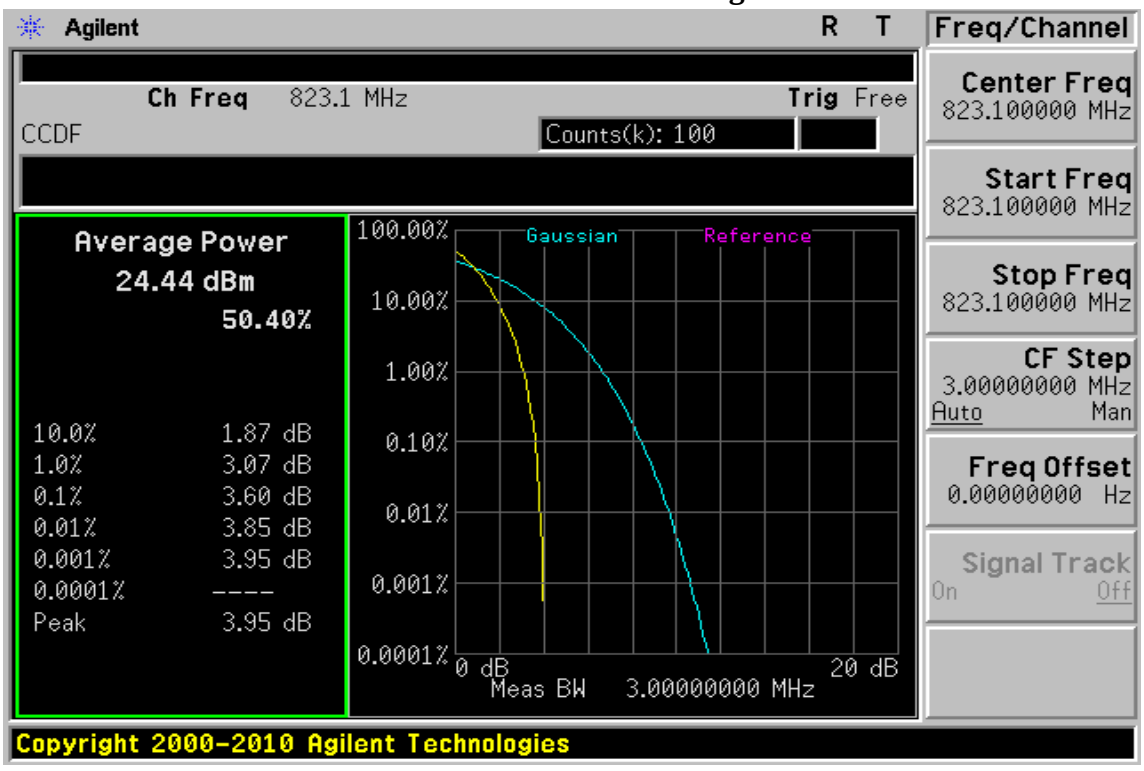
CDMA BC10 Channel Mid



CDMA BC10 Channel High



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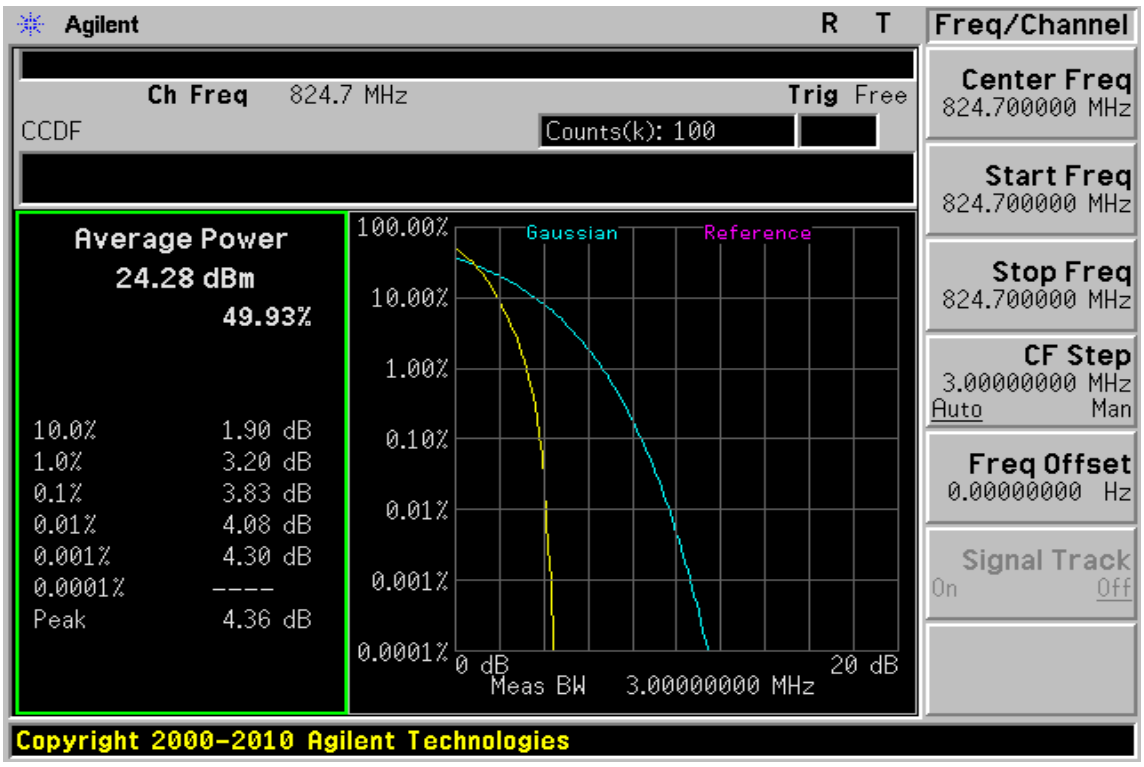
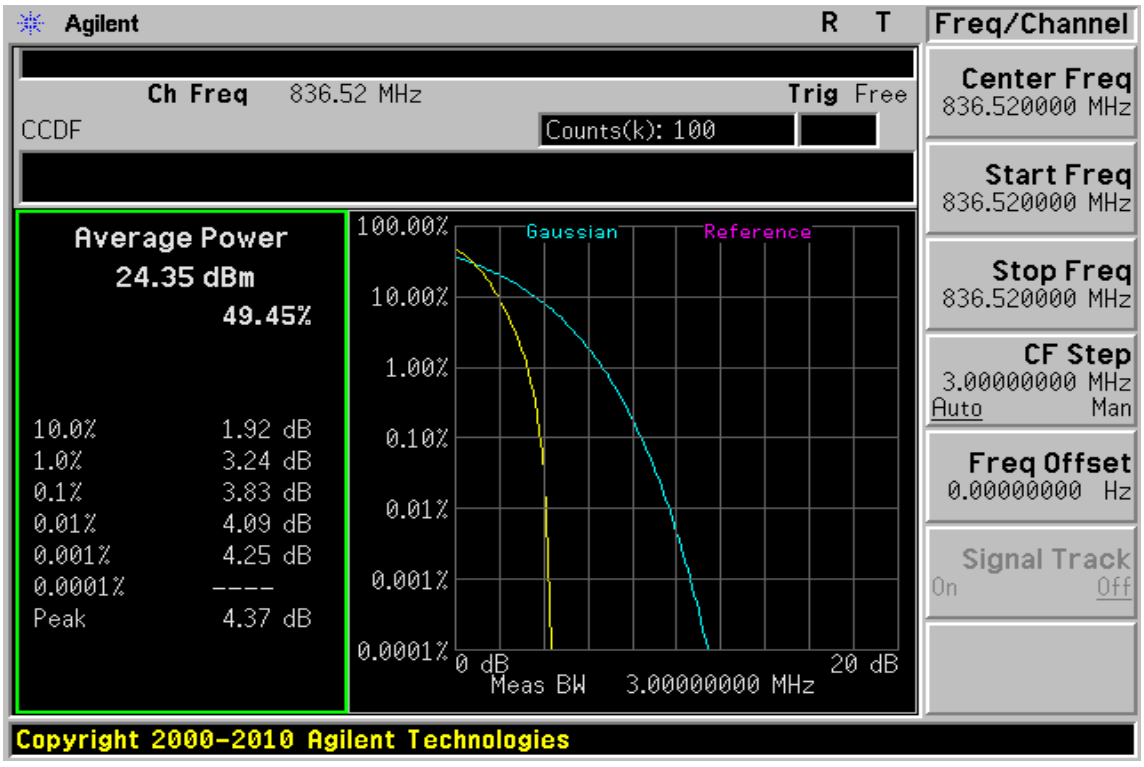
EVDO BC0 Channel Low



EVDO BC0 Channel Mid



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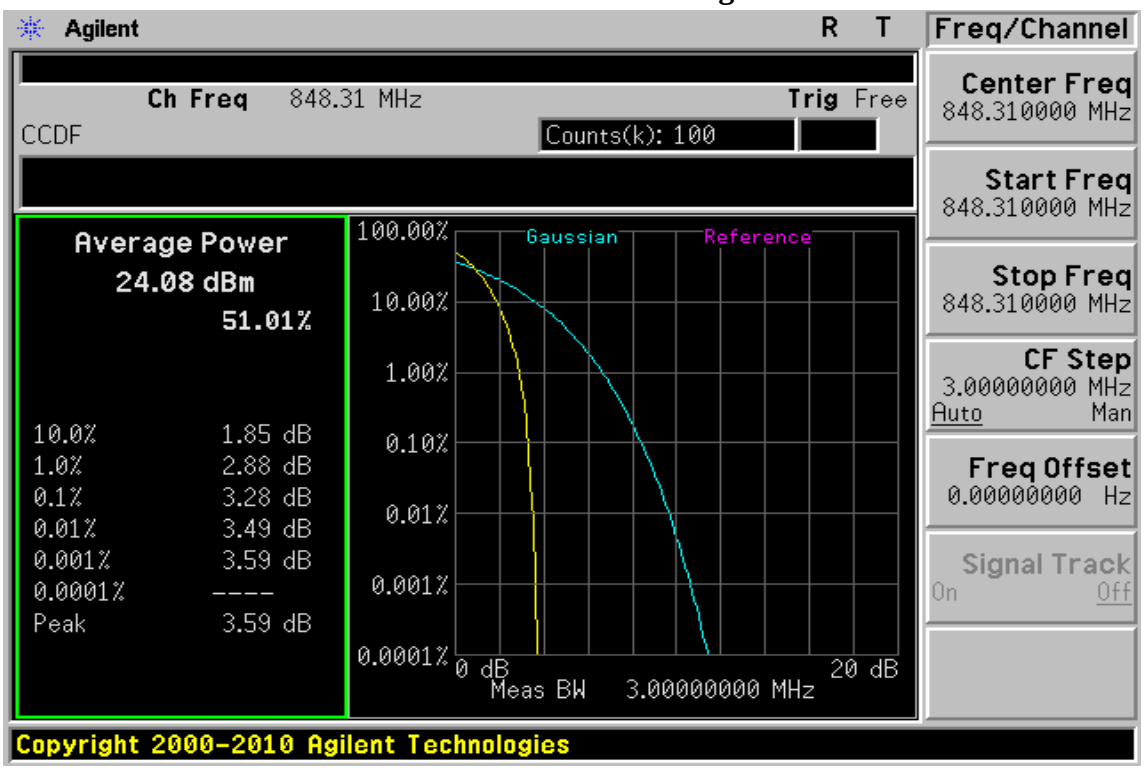
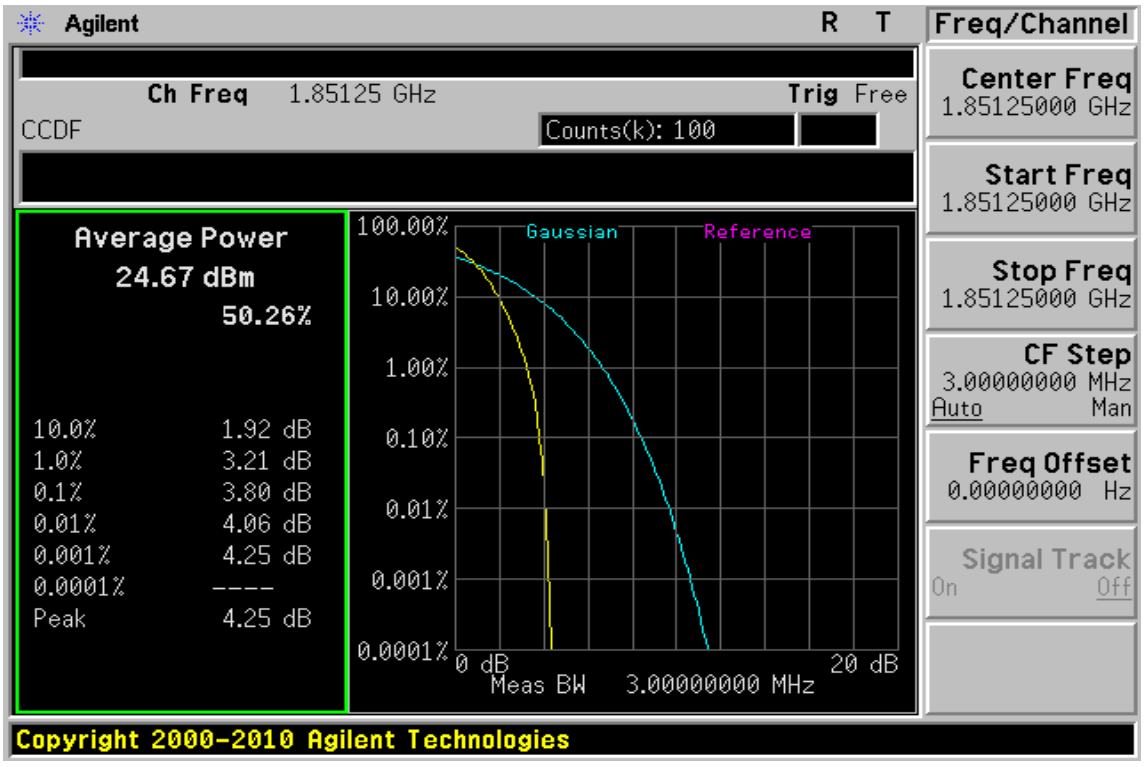
EVDO BC0 Channel High



EVDO PCS BC1 Channel Low



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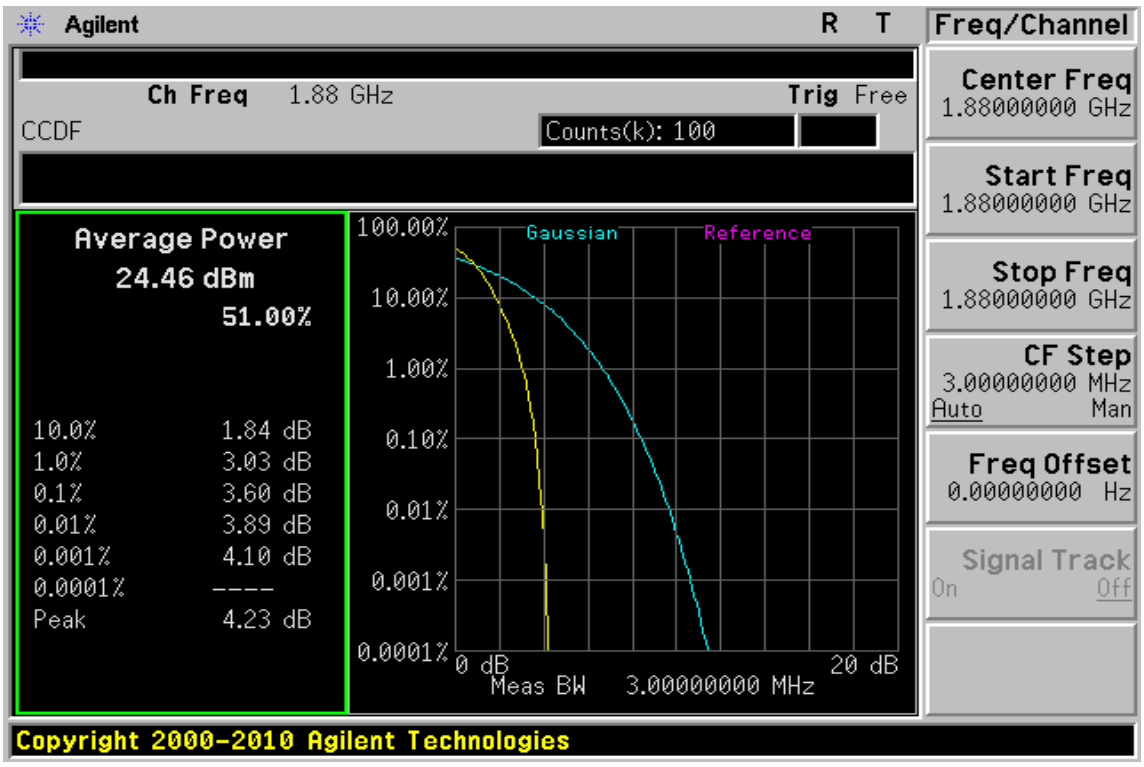
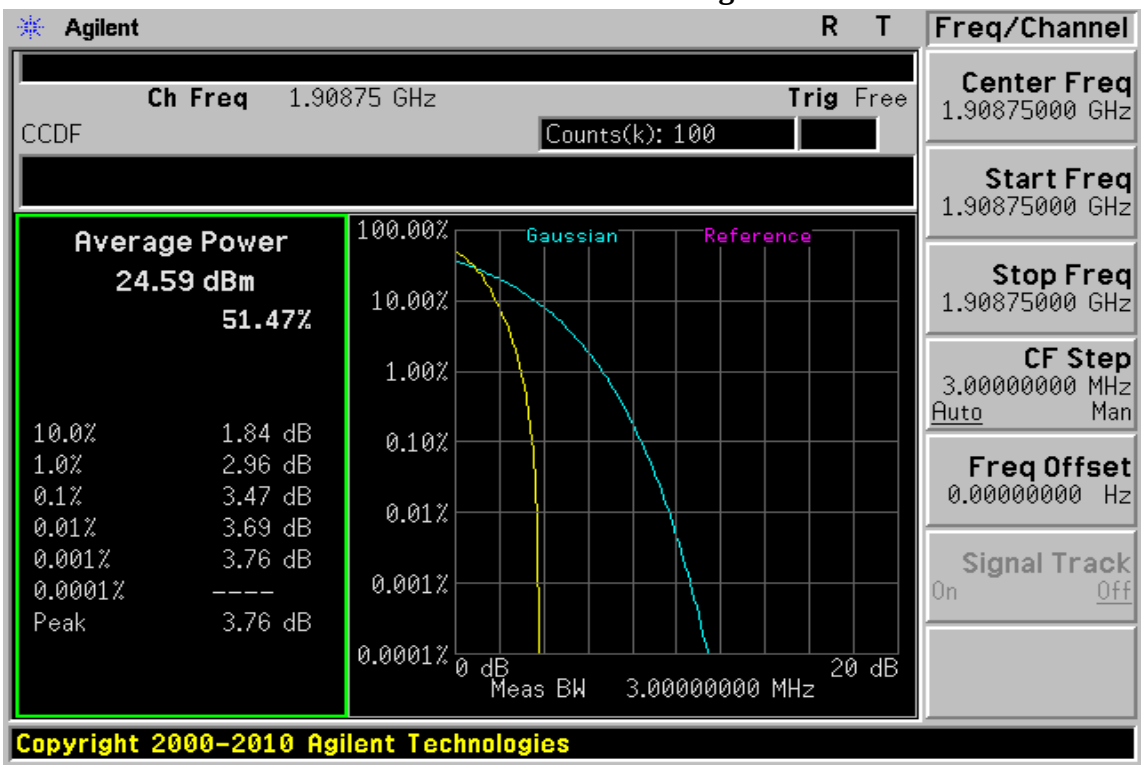
EVDO BC1 Channel Mid



EVDO BC1 Channel High



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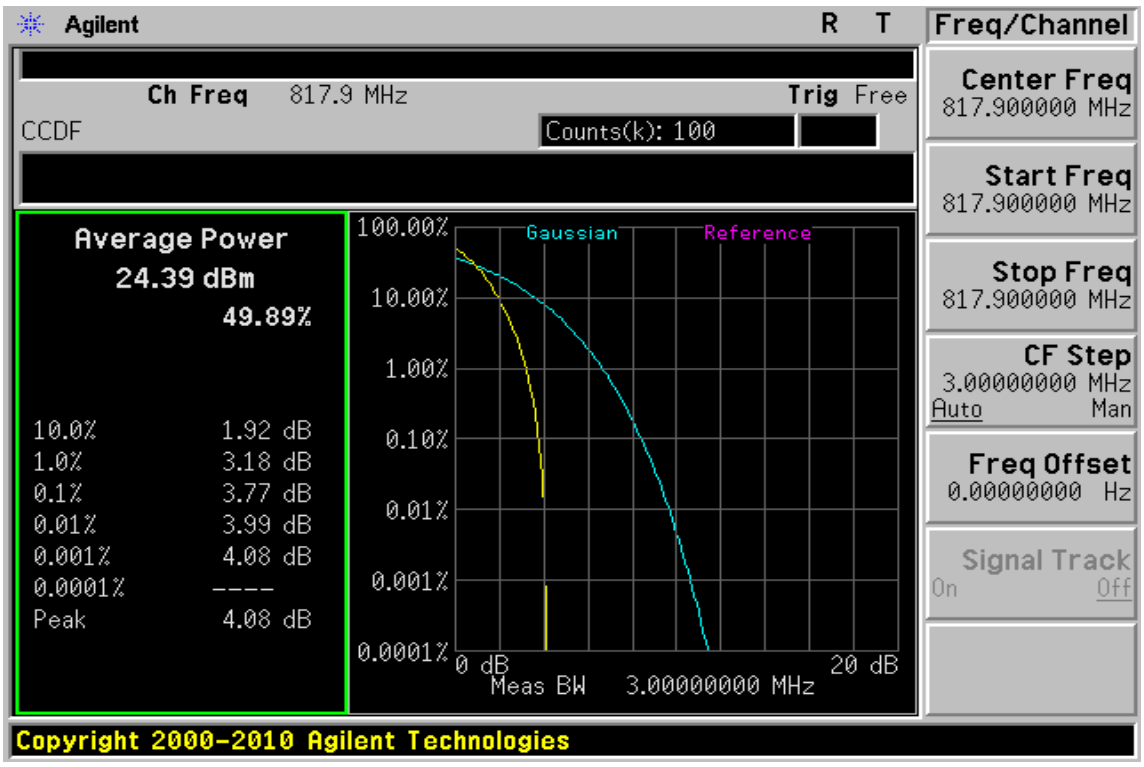
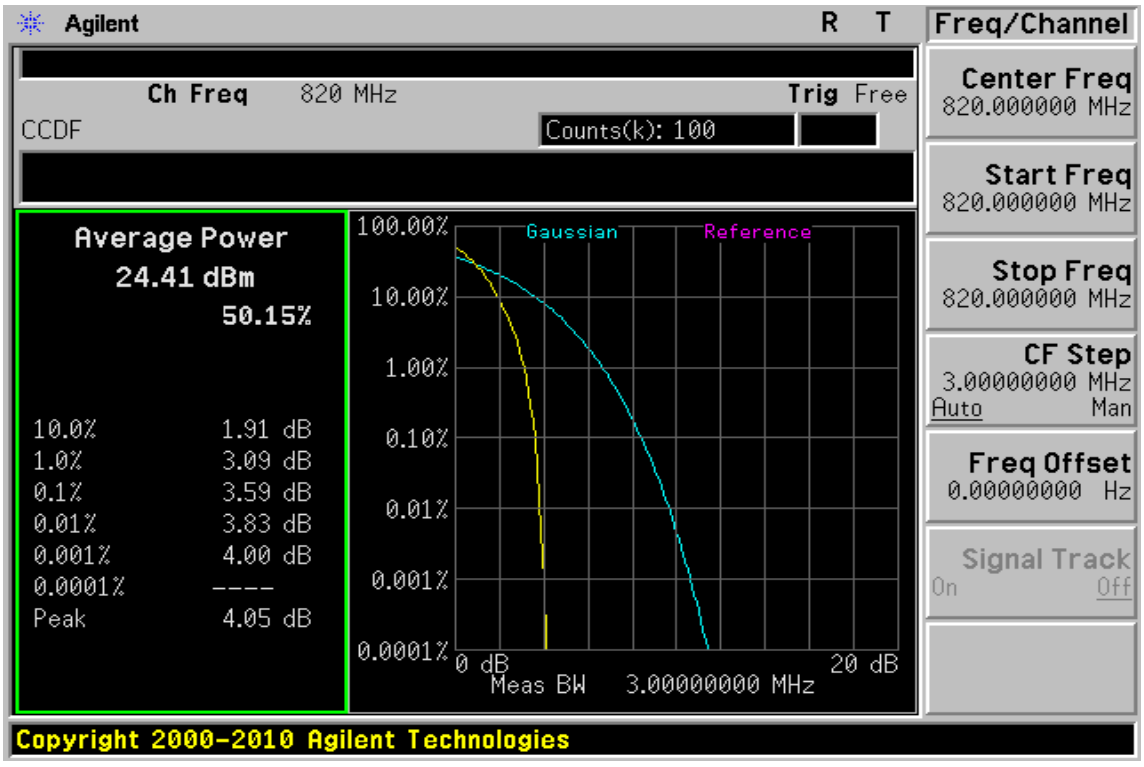
EVDO BC10 Channel Low



EVDO BC10 Channel Mid



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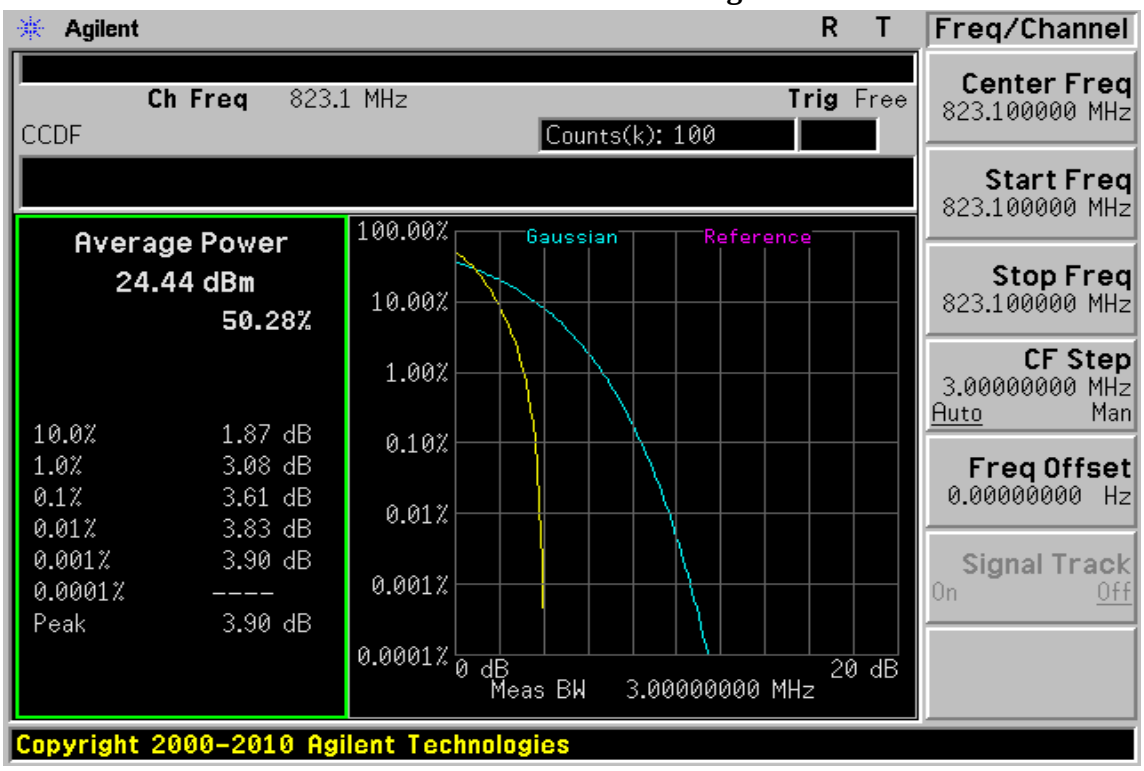
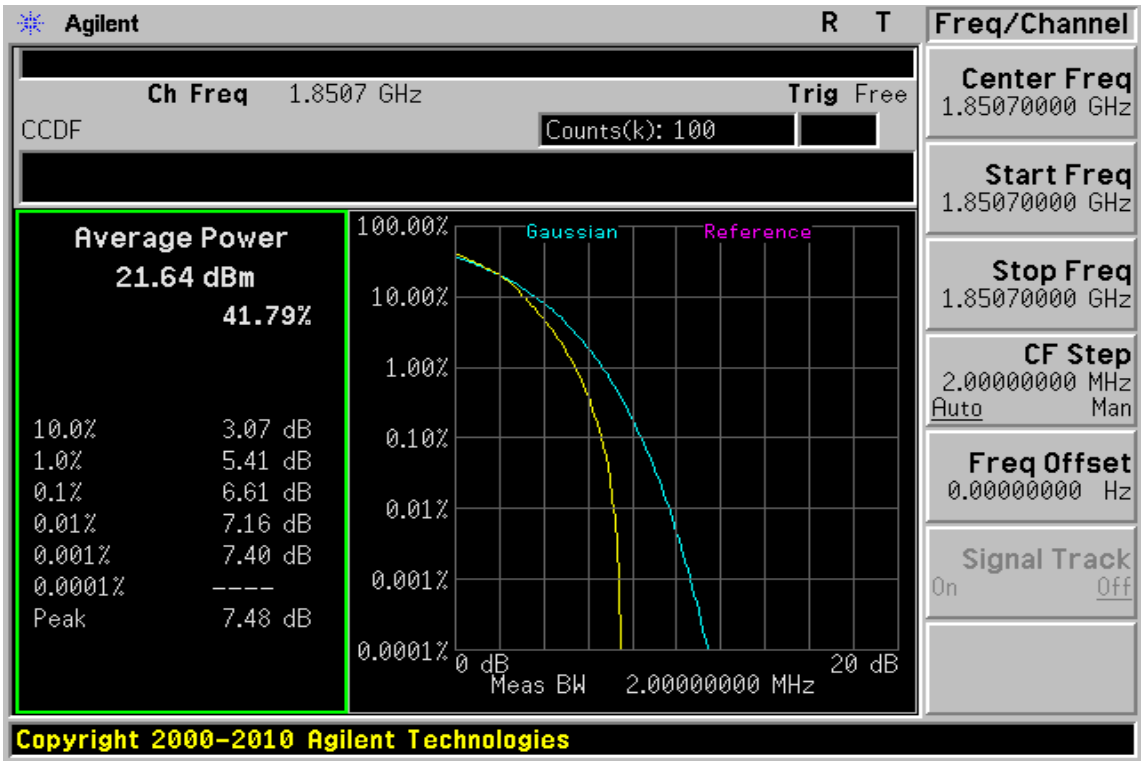
EVDO BC10 Channel High



1.4MHz BW LTE-Band 2 16QAM Channel Low



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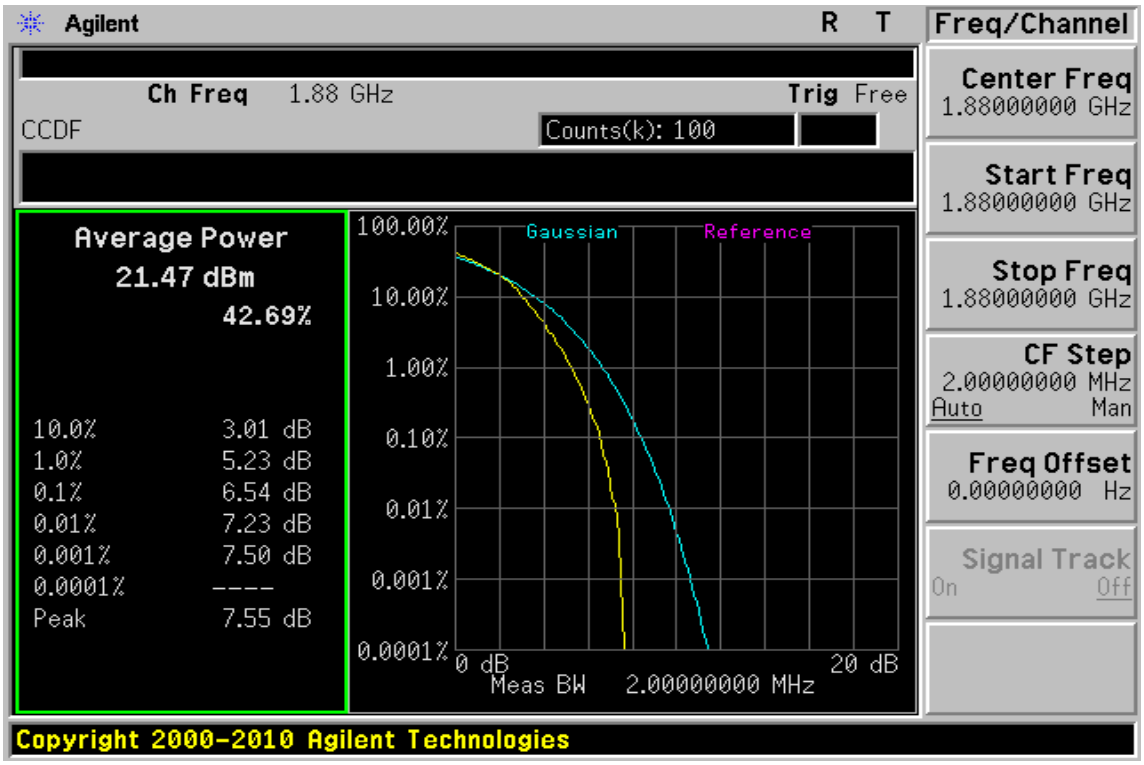
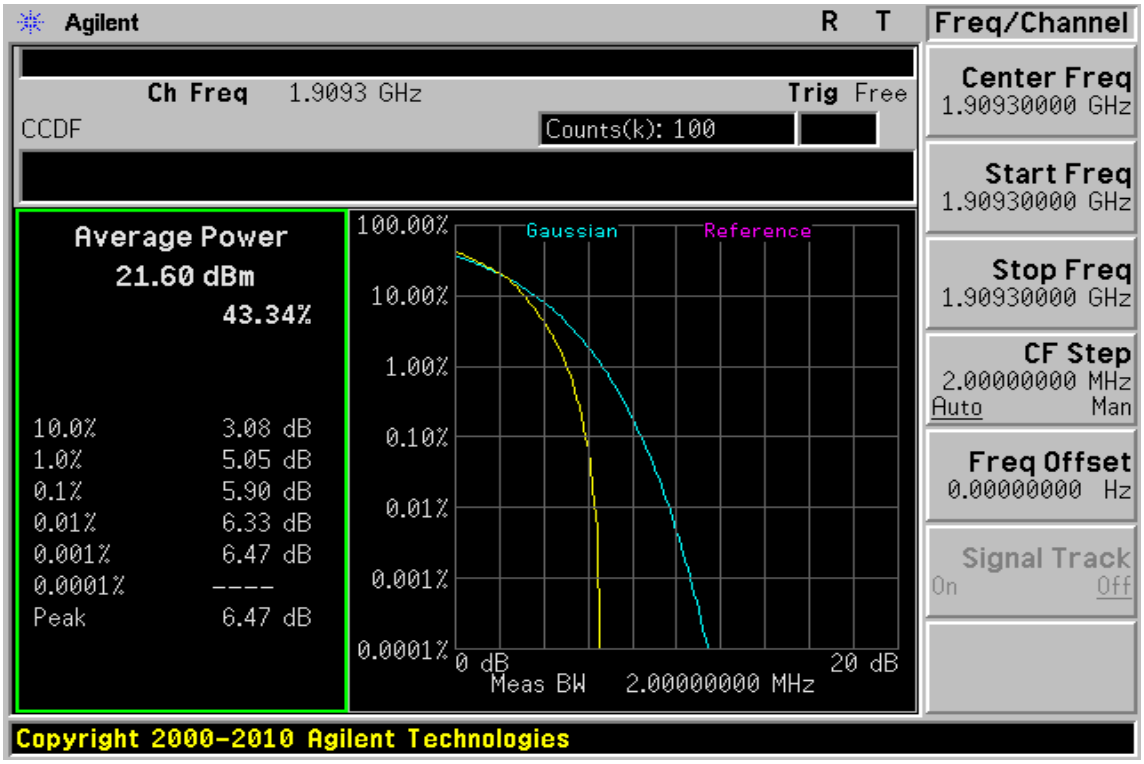
1.4MHz BW LTE-Band 2 16QAM Channel Mid



1.4MHz BW LTE-Band 2 16QAM Channel High



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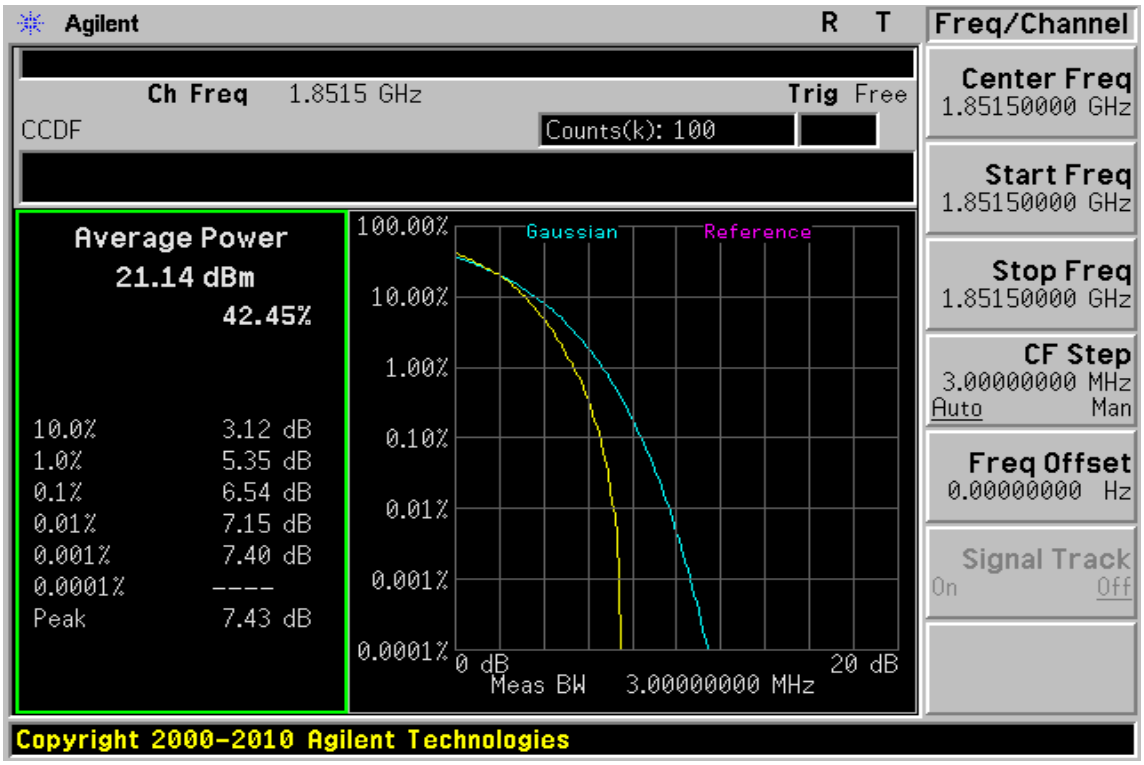
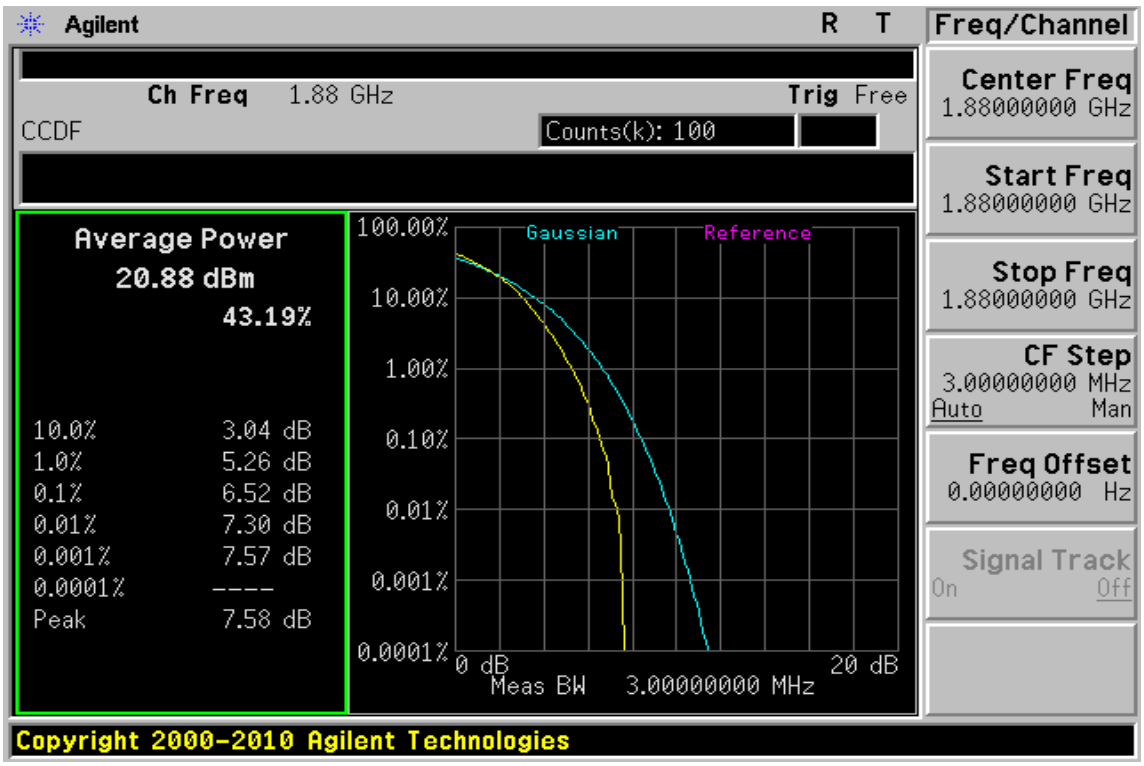
3MHz BW LTE-Band 2 16QAM Channel Low



3MHz BW LTE-Band 2 16QAM Channel Mid



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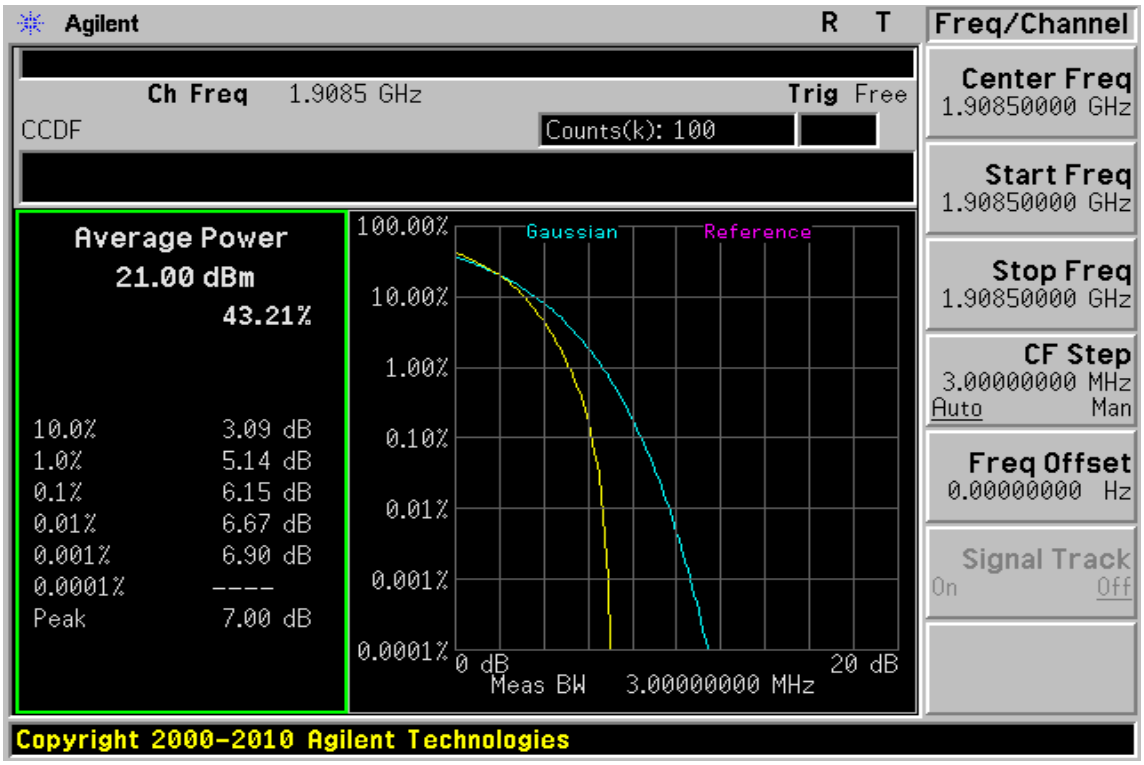
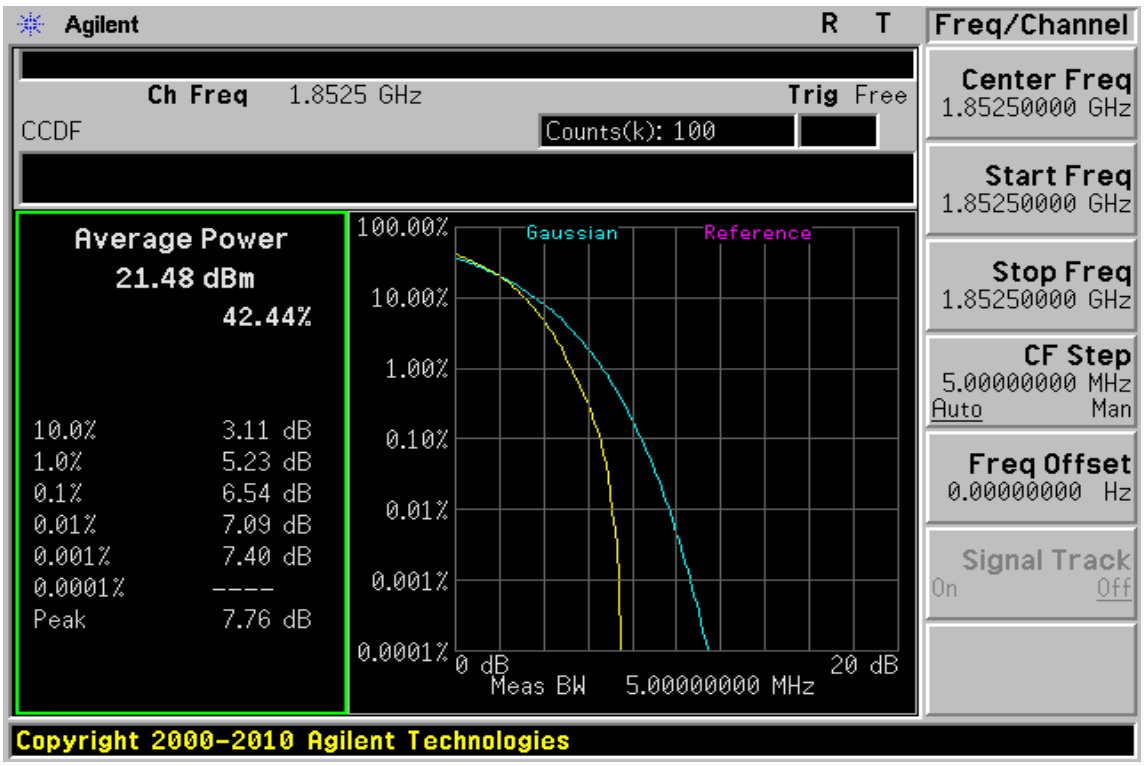
3MHz BW LTE-Band 2 16QAM Channel High



5MHz BW LTE-Band 2 16QAM Channel Low



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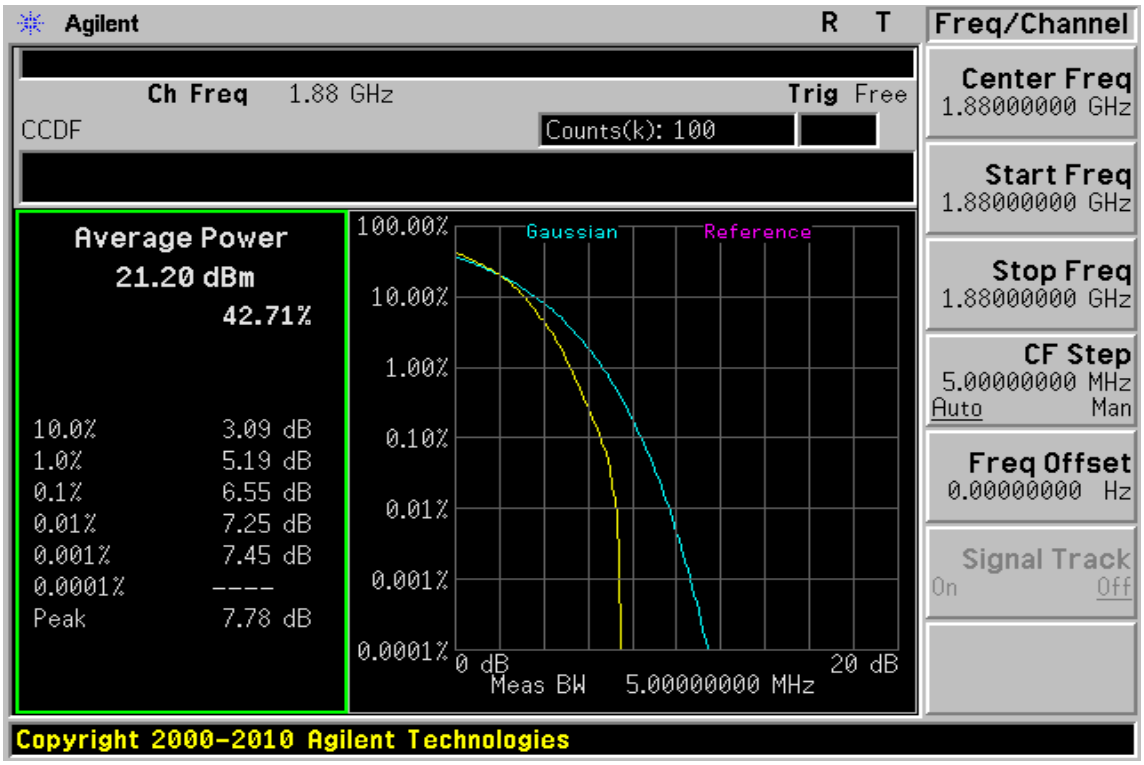
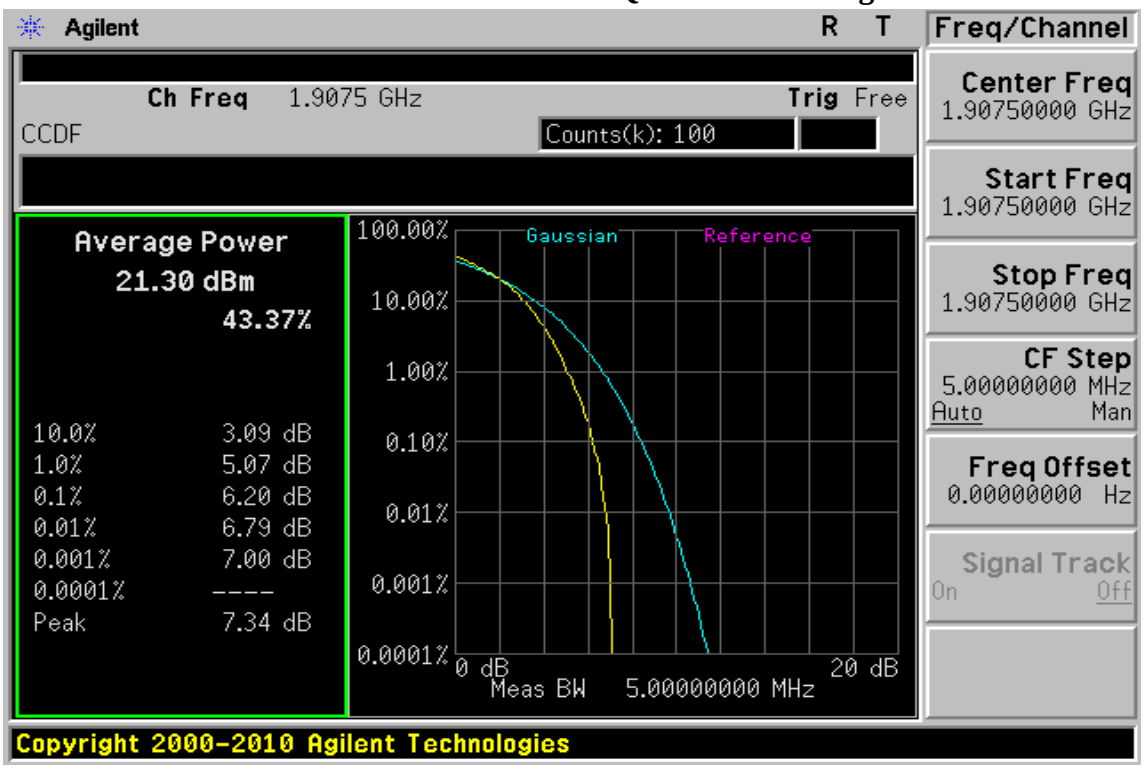
5MHz BW LTE-Band 2 16QAM Channel Mid



5MHz BW LTE-Band 2 16QAM Channel High



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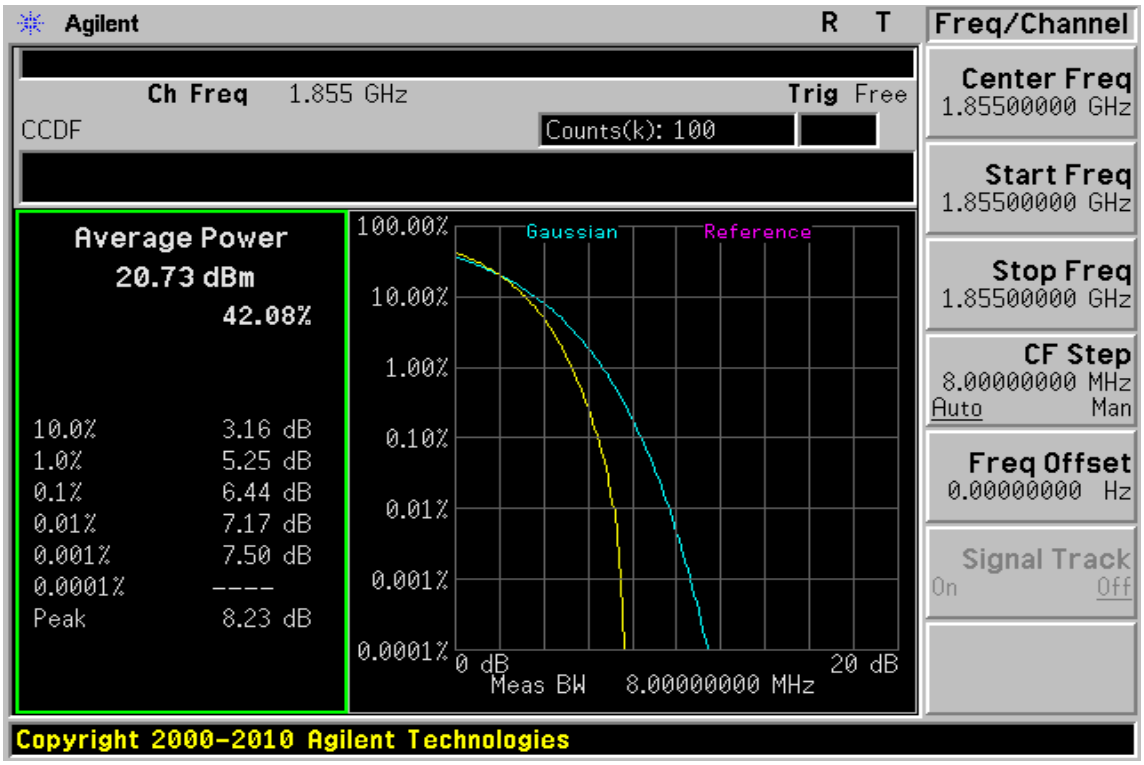
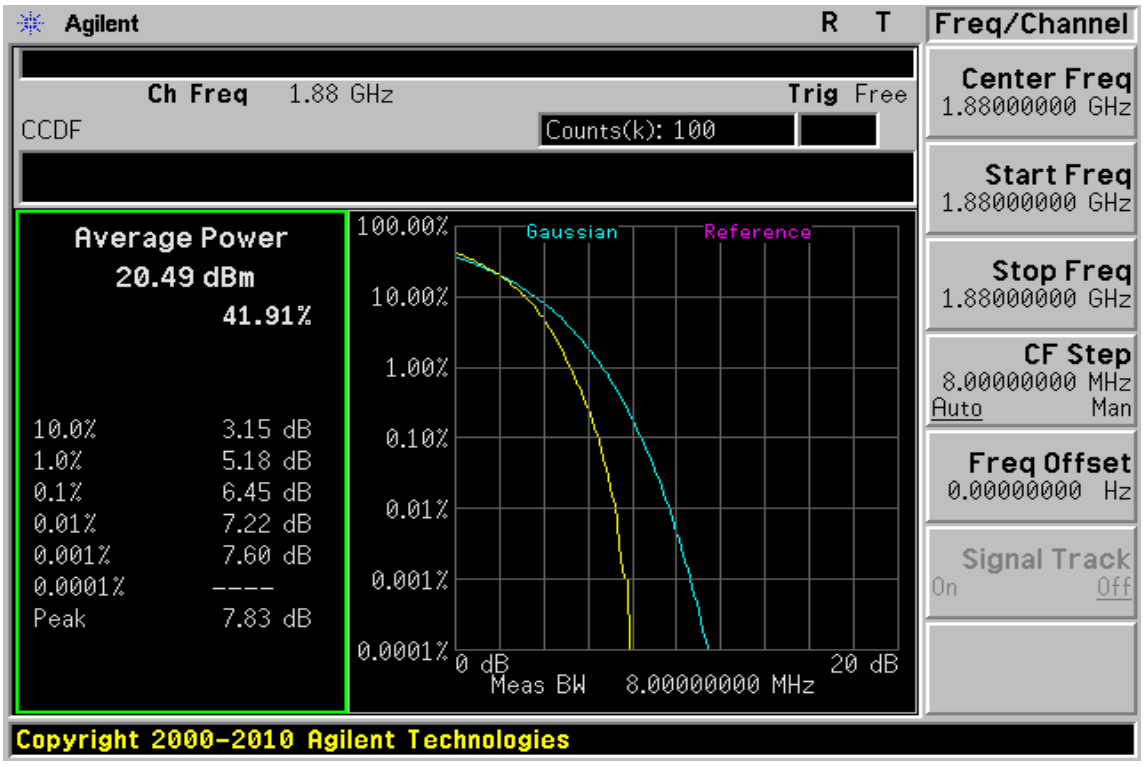
10MHz BW LTE-Band 2 16QAM Channel Low



10MHz BW LTE-Band 2 16QAM Channel Mid



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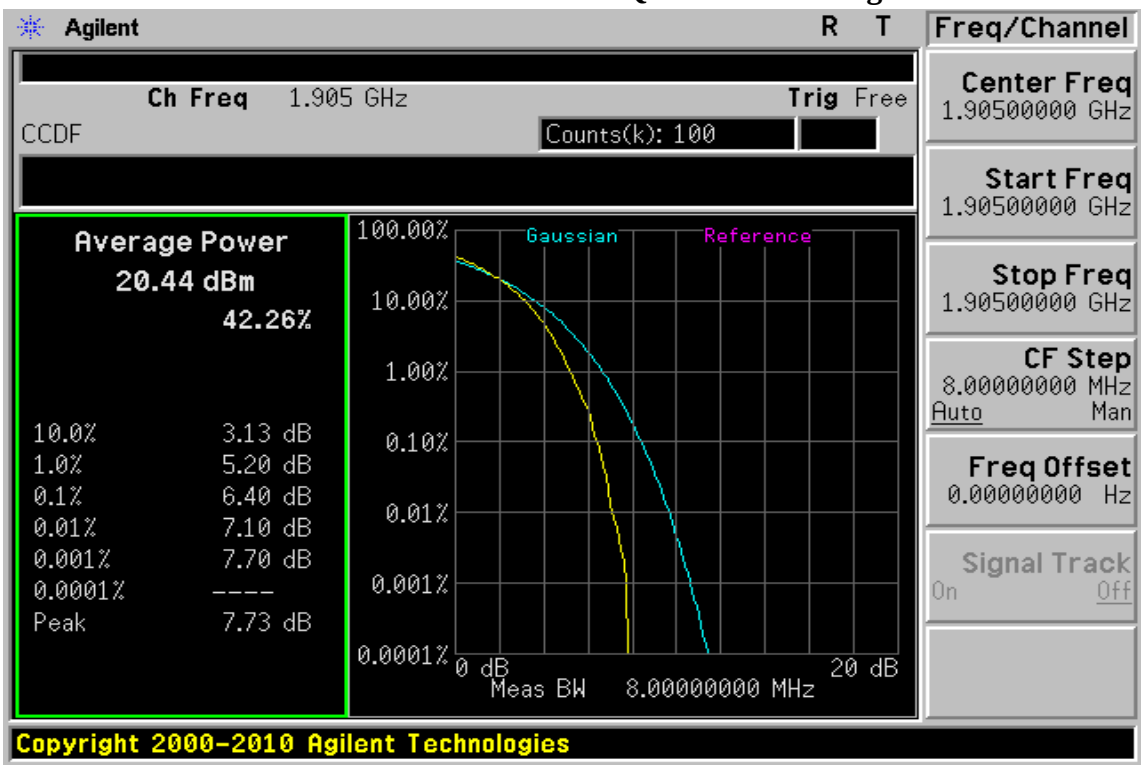
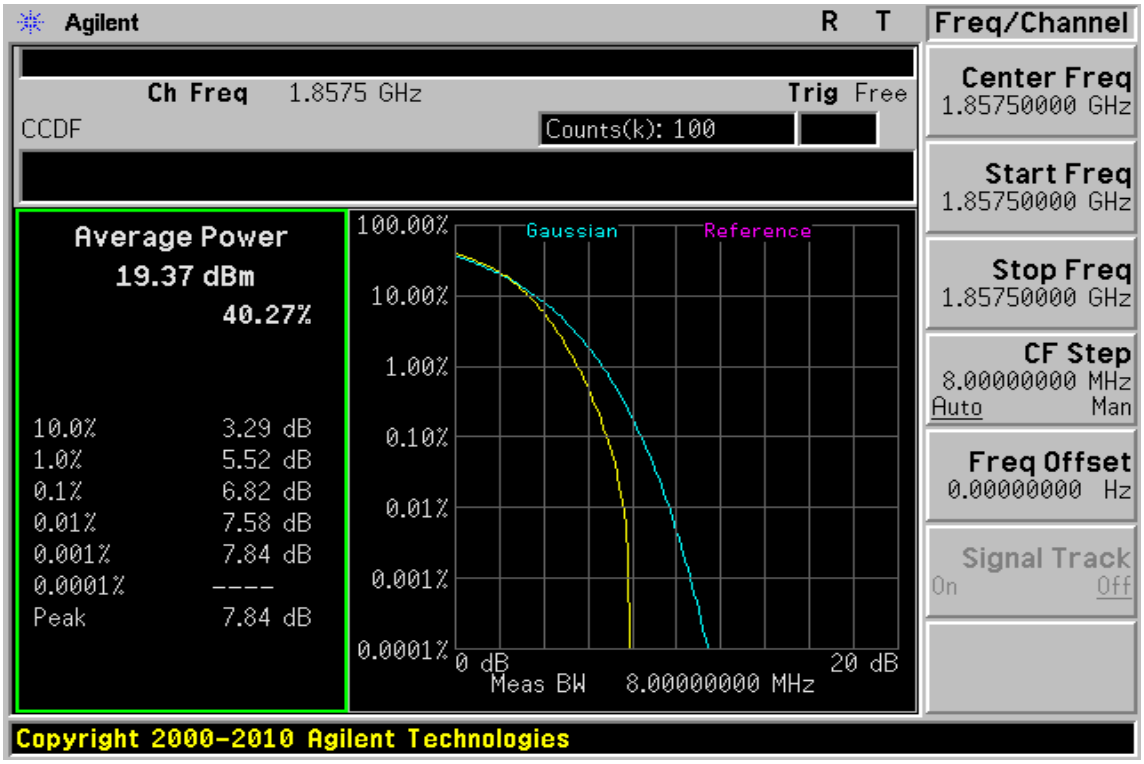
10MHz BW LTE-Band 2 16QAM Channel High



15MHz BW LTE-Band 2 16QAM Channel Low



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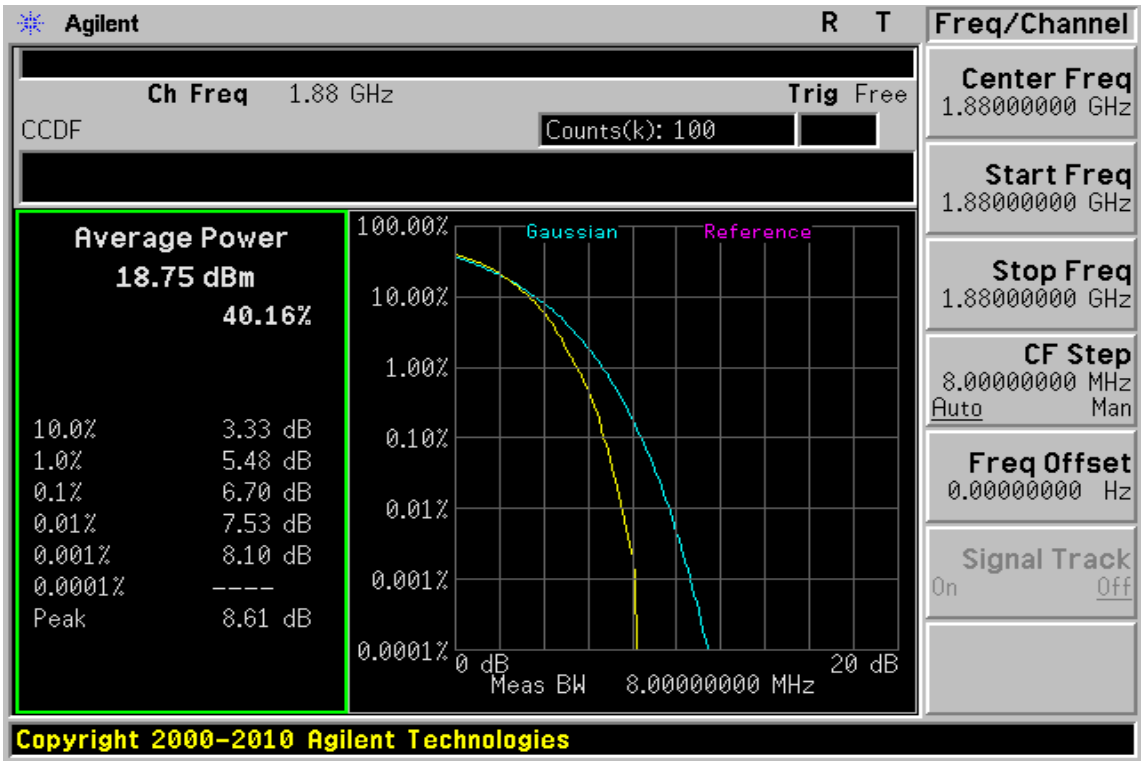
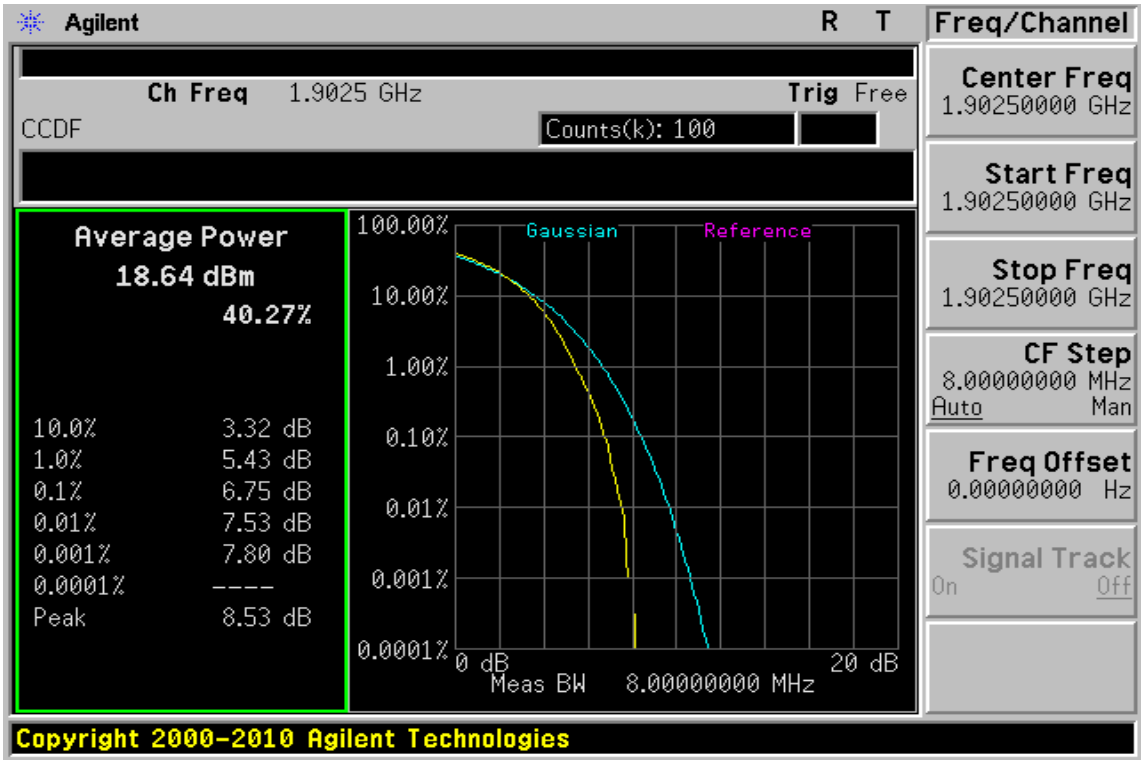
15MHz BW LTE-Band 2 16QAM Channel Mid



15MHz BW LTE-Band 2 16QAM Channel High



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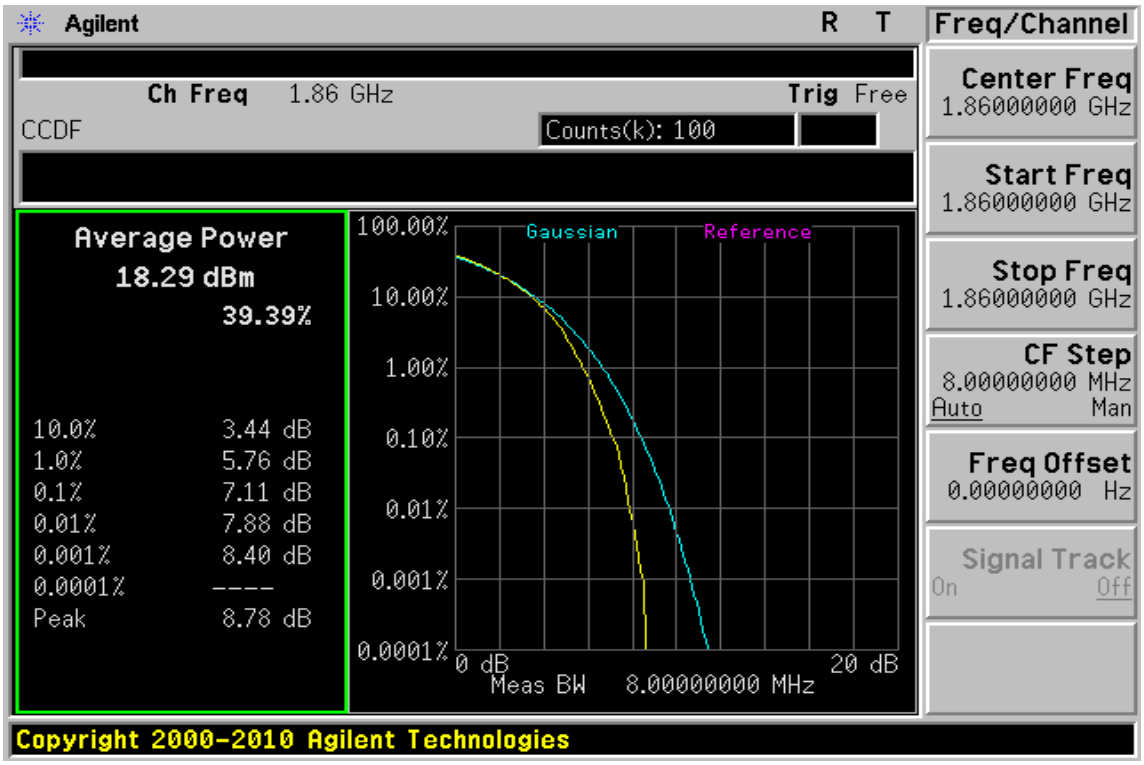
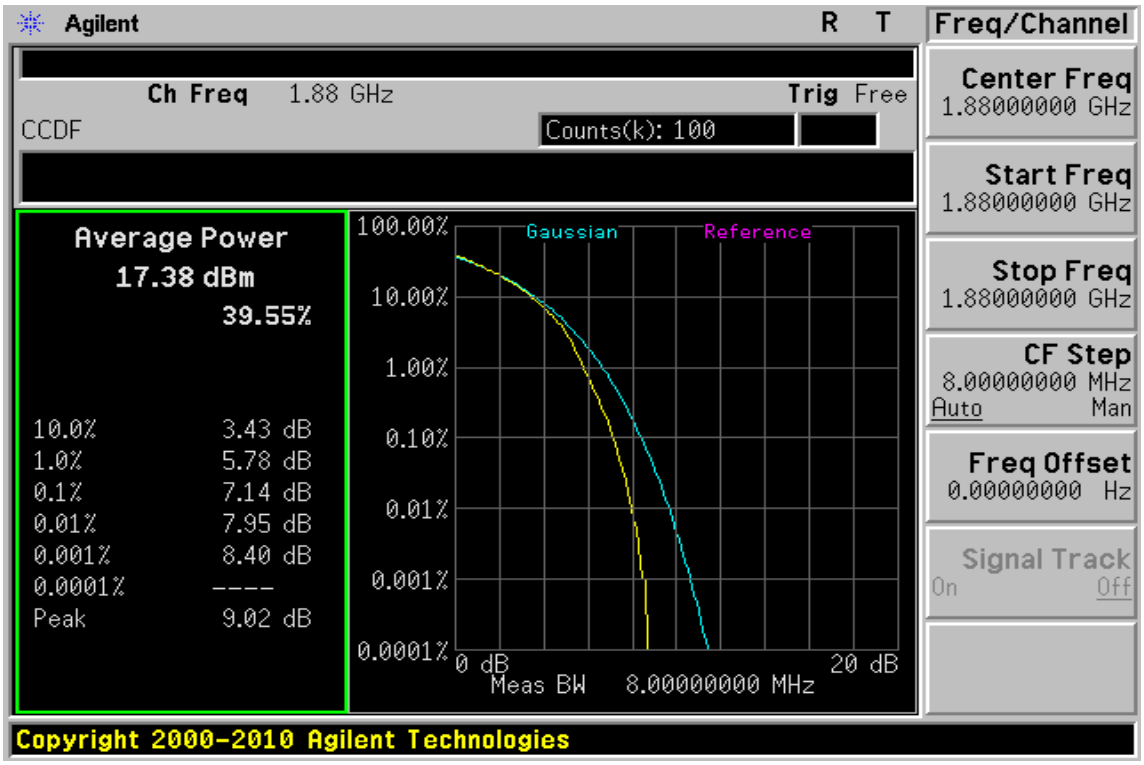
20MHz BW LTE-Band 2 16QAM Channel Low



20MHz BW LTE-Band 2 16QAM Channel Mid



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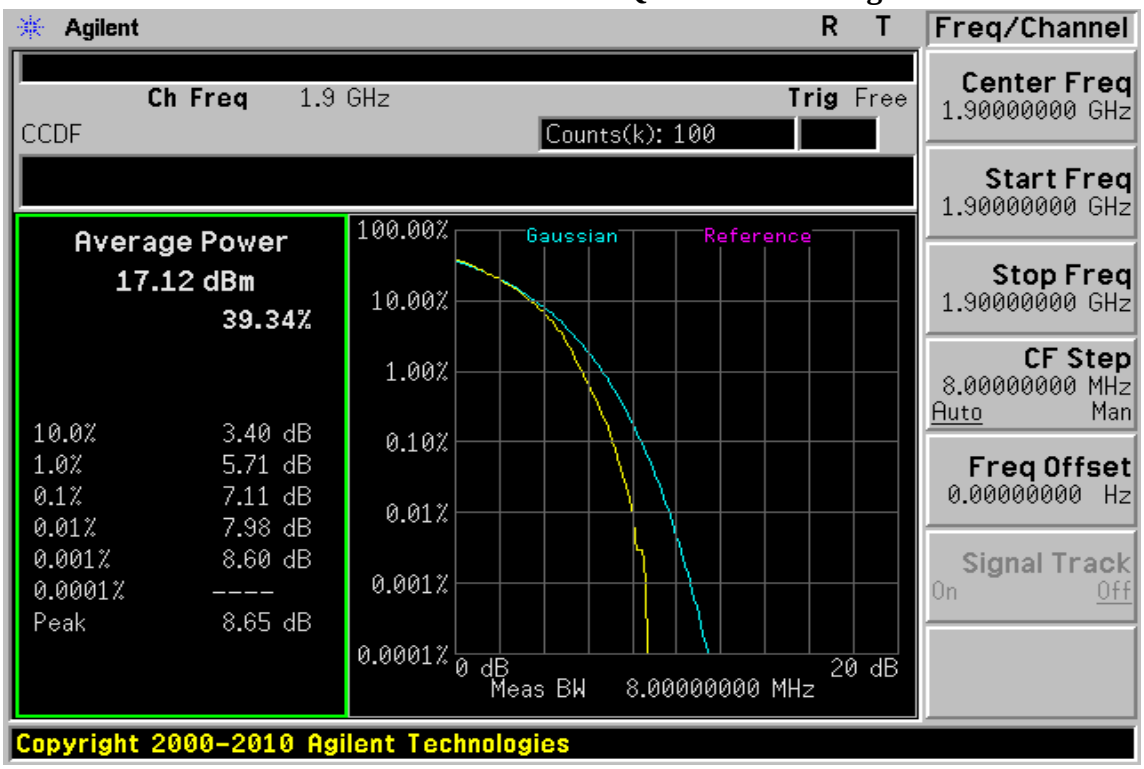
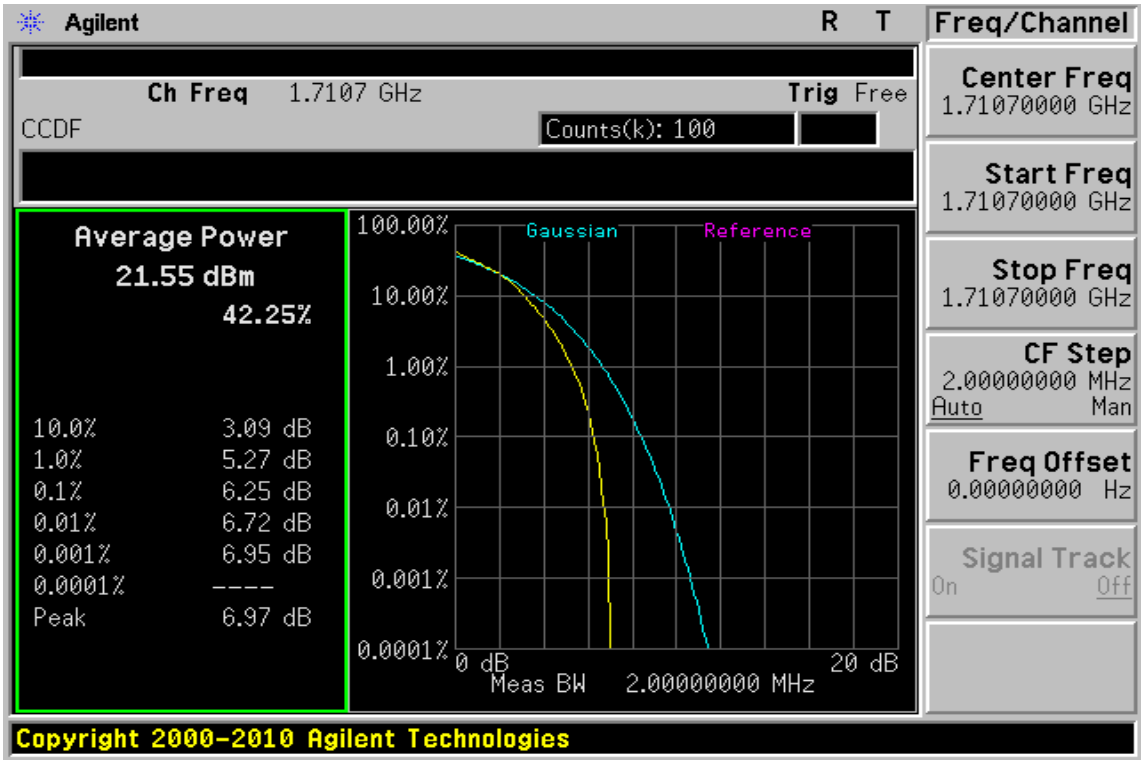
20MHz BW LTE-Band 2 16QAM Channel High



1.4MHz BW LTE-Band 4 16QAM Channel Low



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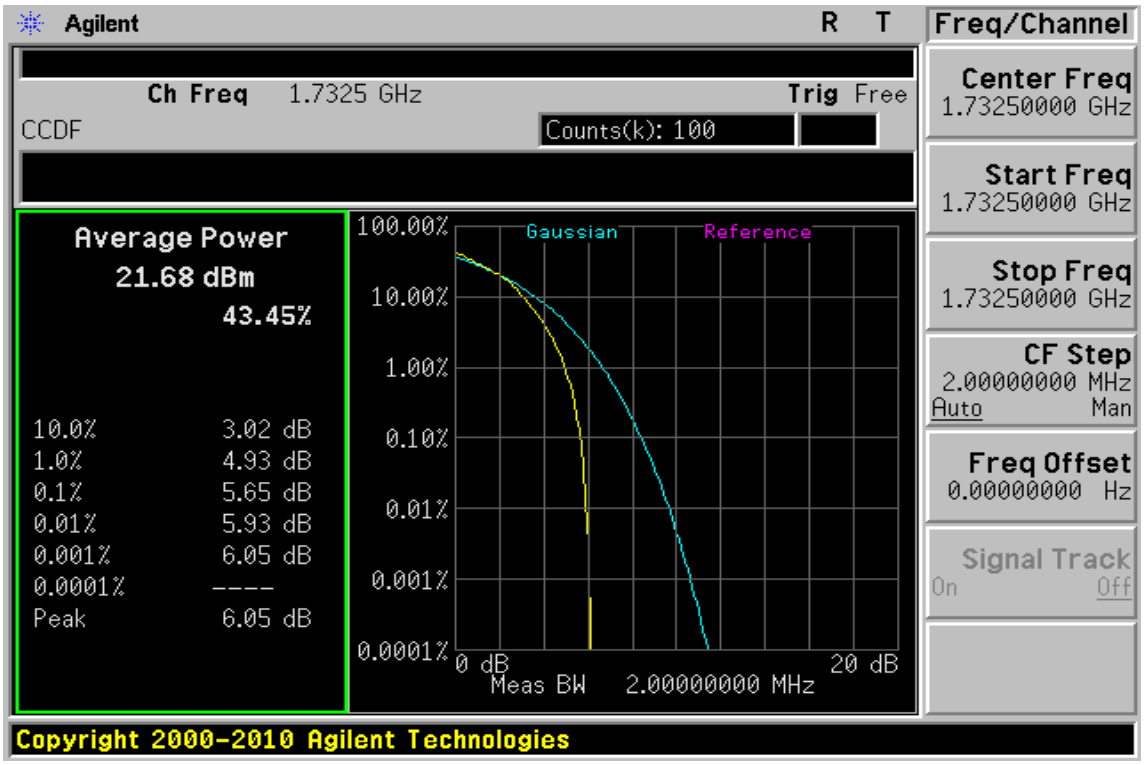
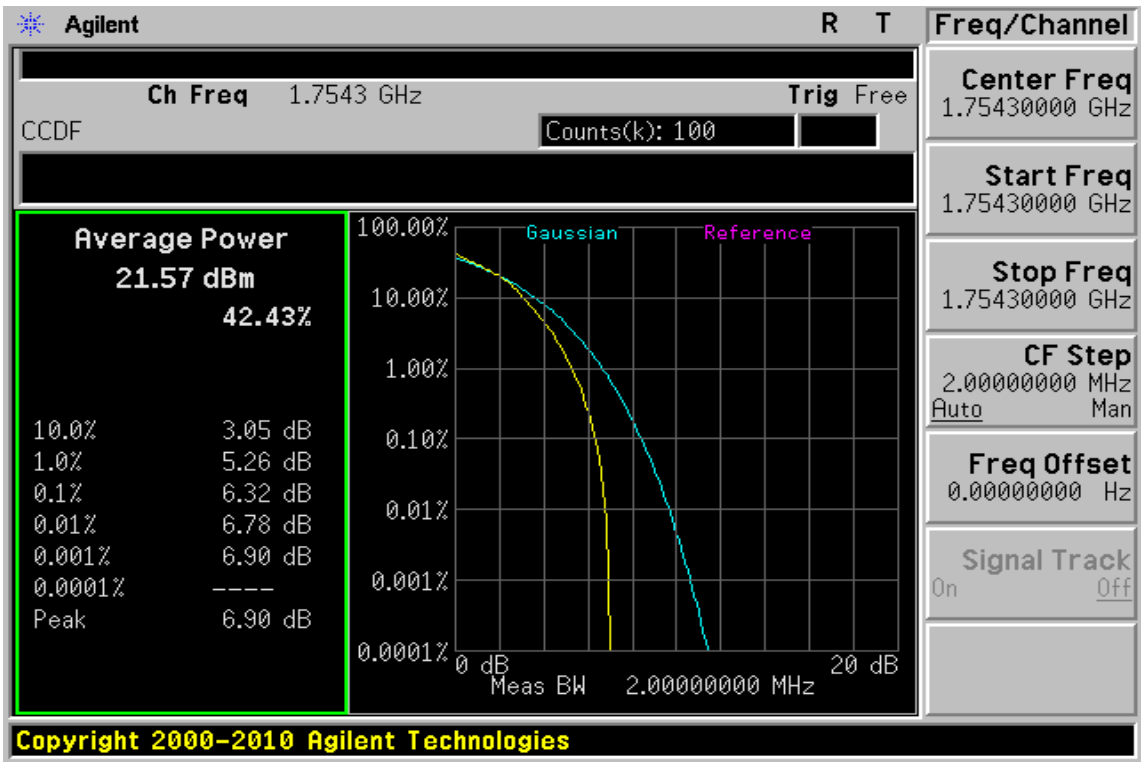
1.4MHz BW LTE-Band 4 16QAM Channel Mid



1.4MHz BW LTE-Band 4 16QAM Channel High



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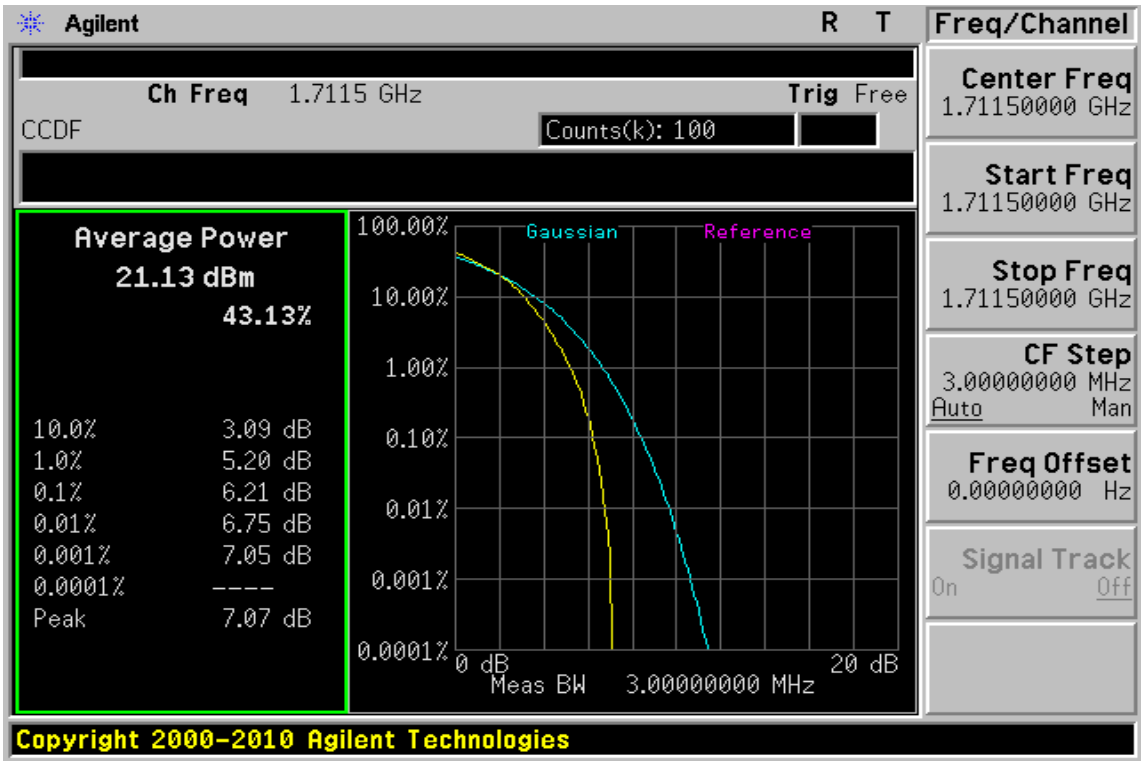
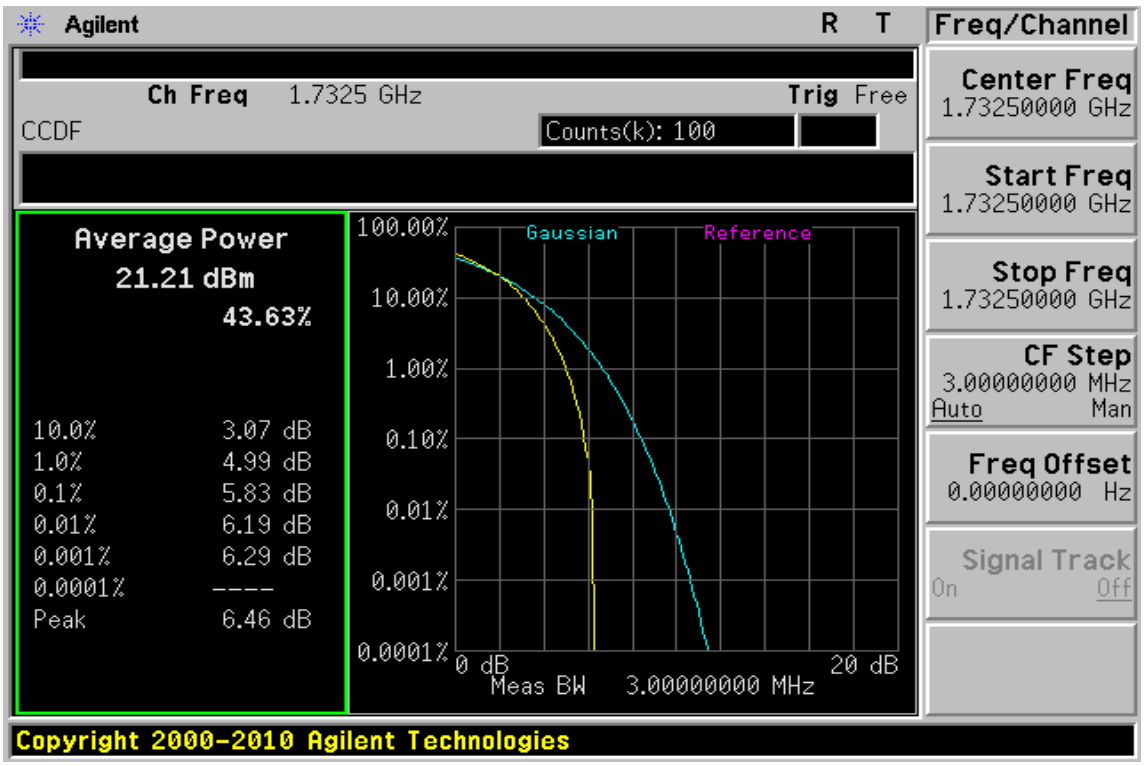
3MHz BW LTE-Band 4 16QAM Channel Low



3MHz BW LTE-Band 4 16QAM Channel Mid



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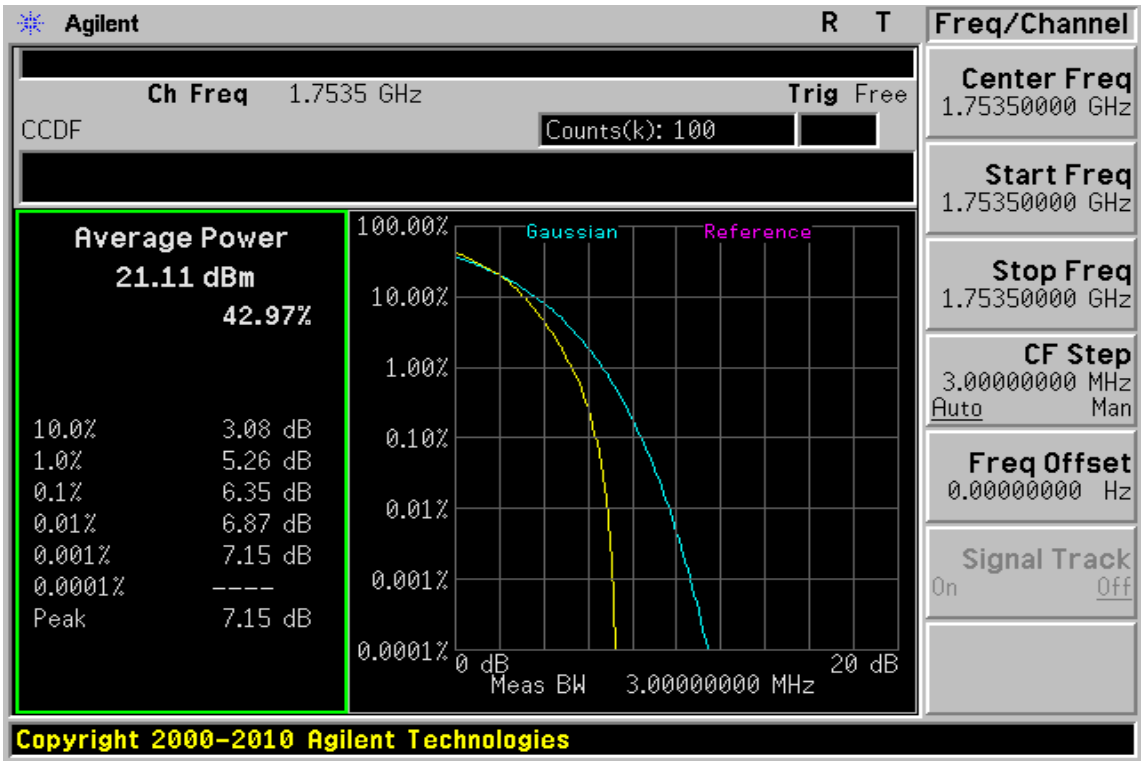
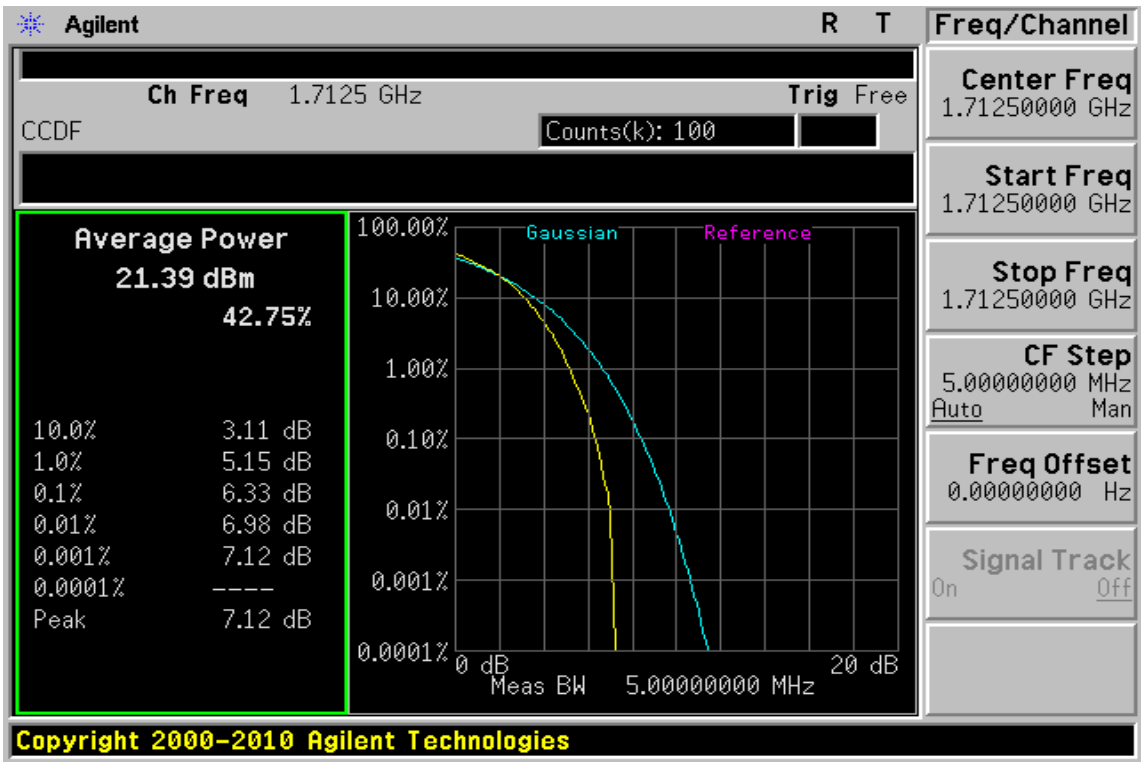
3MHz BW LTE-Band 4 16QAM Channel High



5MHz BW LTE-Band 4 16QAM Channel Low



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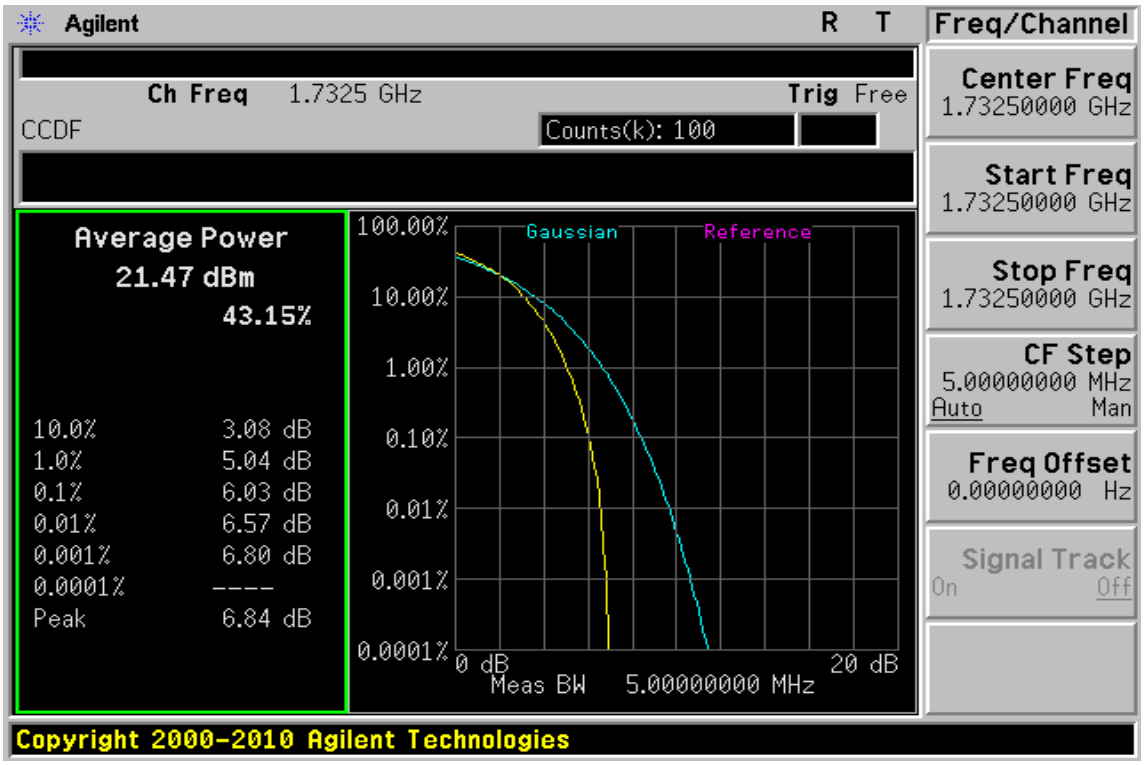
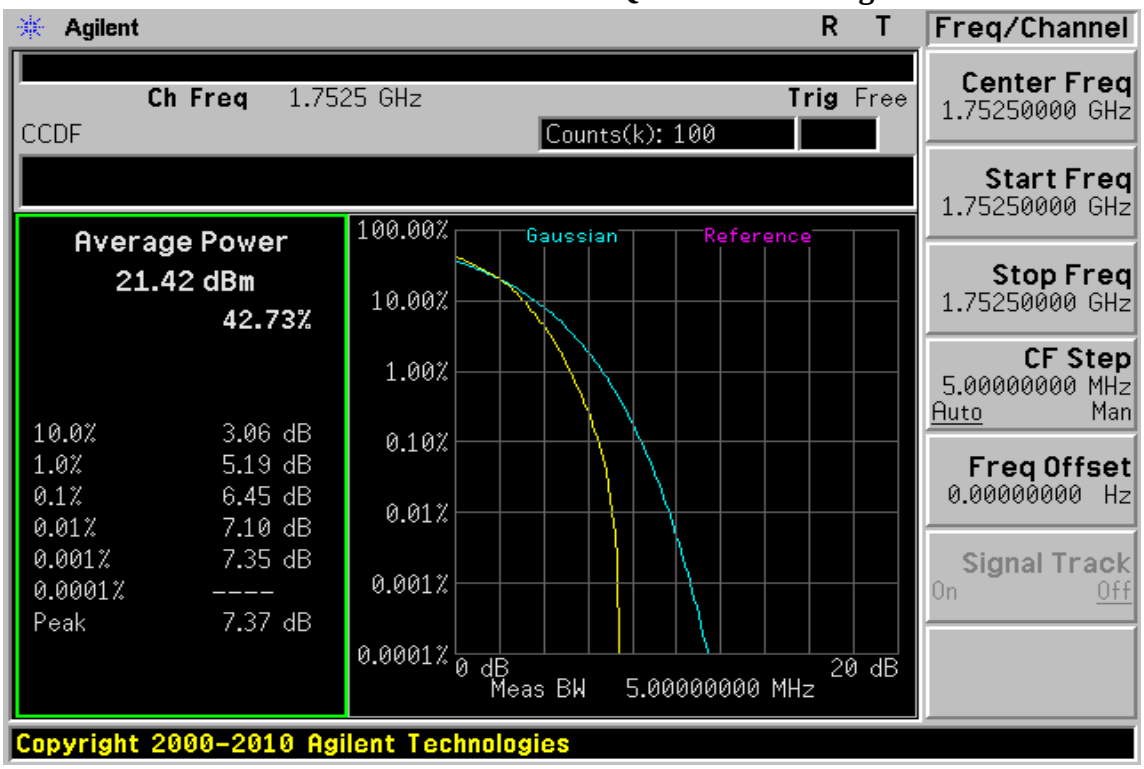
5MHz BW LTE-Band 4 16QAM Channel Mid



5MHz BW LTE-Band 4 16QAM Channel High



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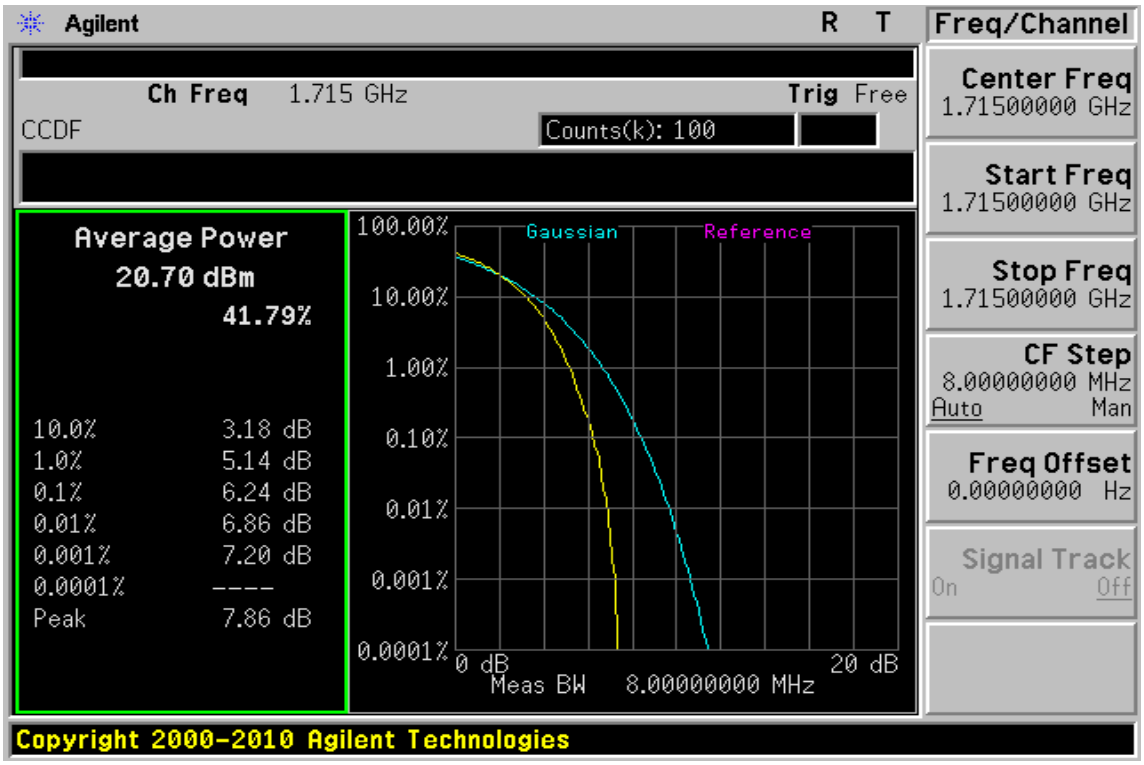
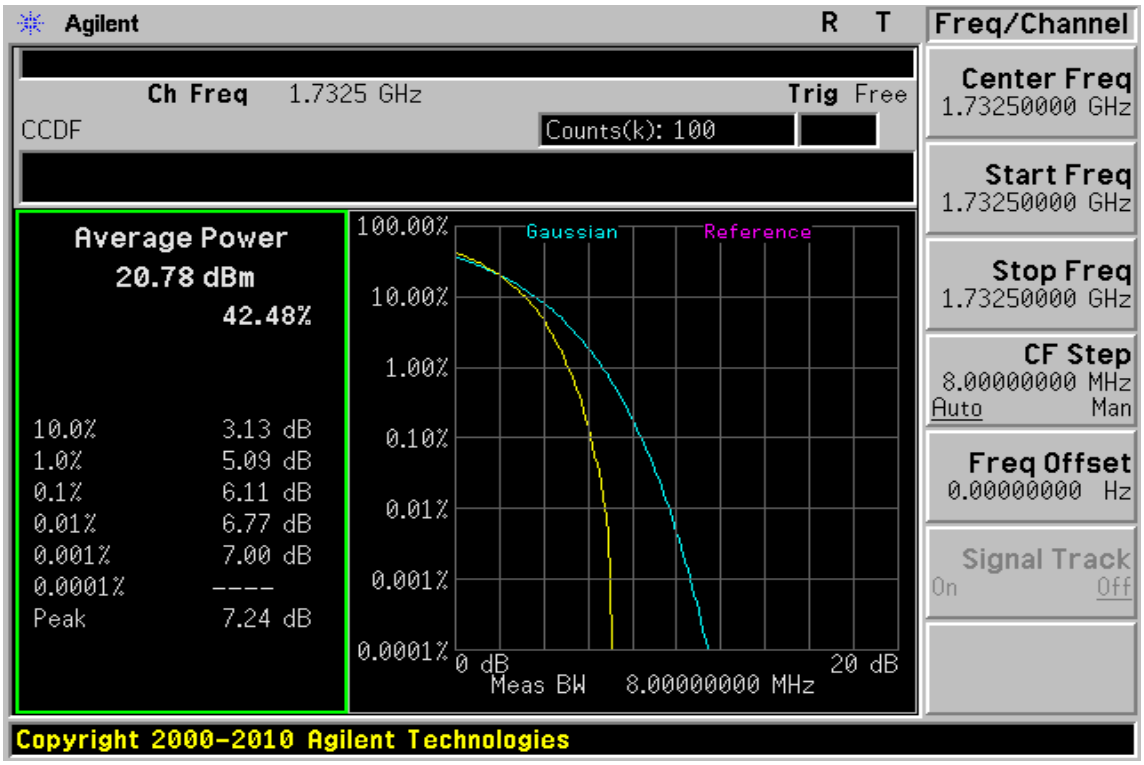
10MHz BW LTE-Band 4 16QAM Channel Low



10MHz BW LTE-Band 4 16QAM Channel Mid



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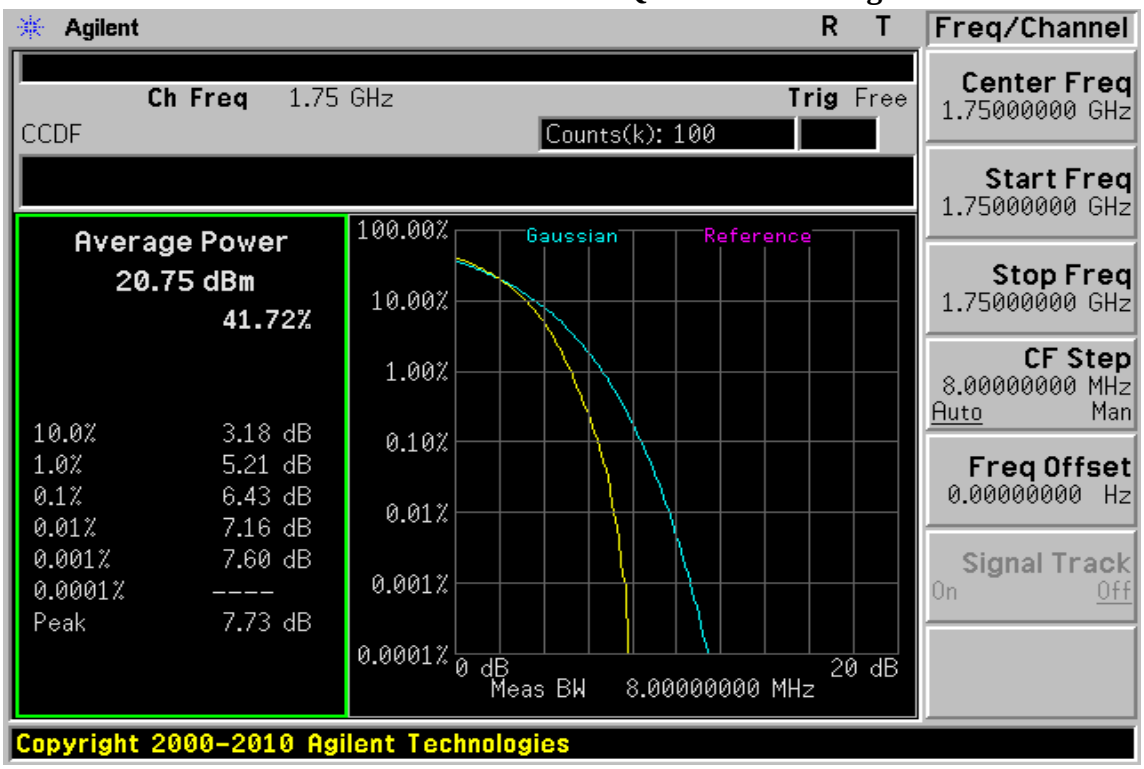
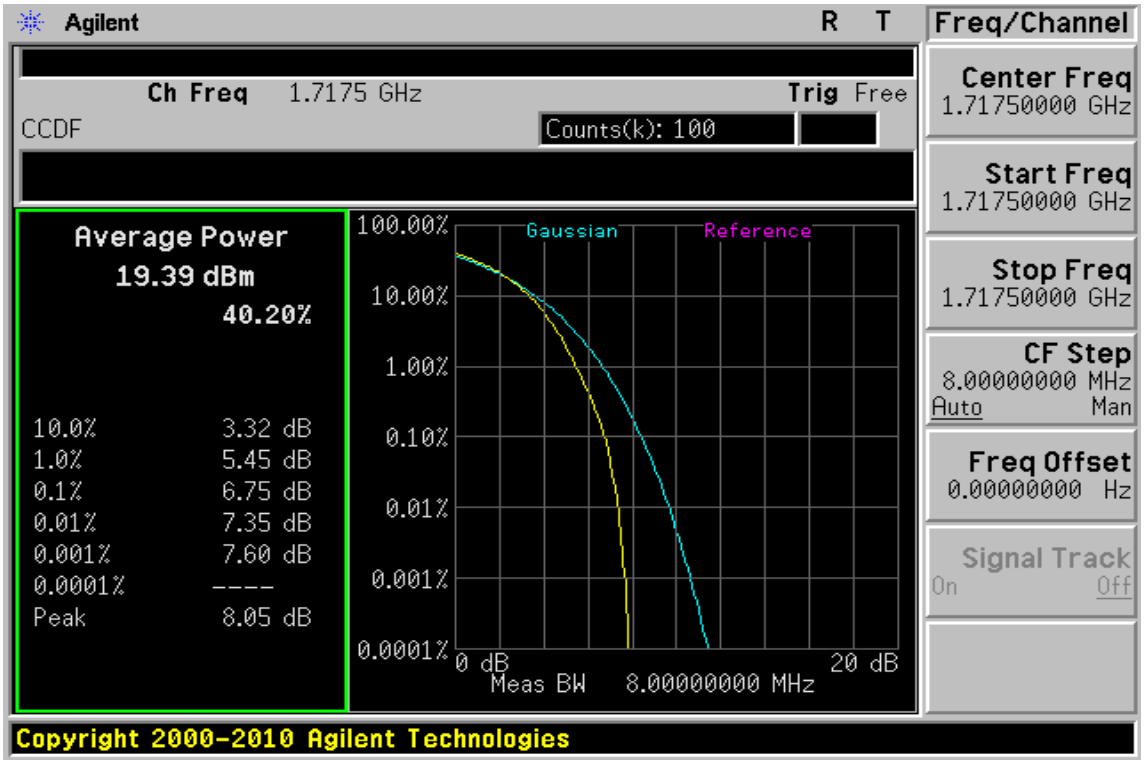
10MHz BW LTE-Band 4 16QAM Channel High



15MHz BW LTE-Band 4 16QAM Channel Low



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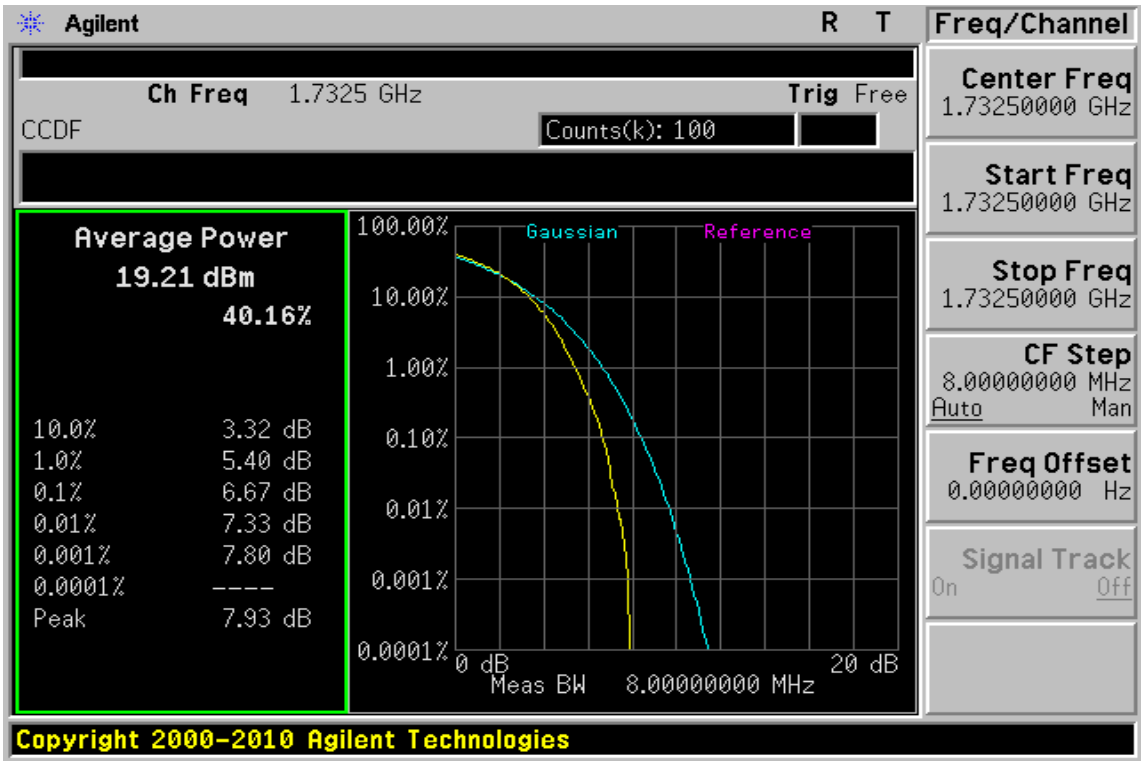
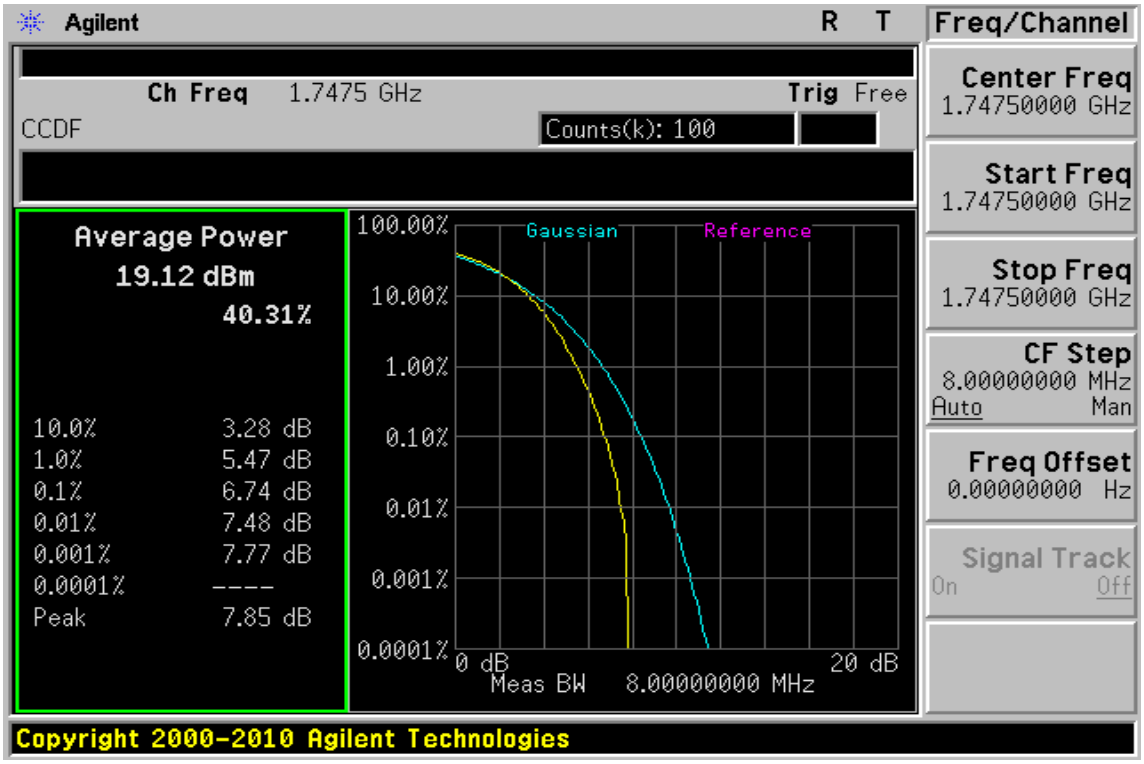
15MHz BW LTE-Band 4 16QAM Channel Mid



15MHz BW LTE-Band 4 16QAM Channel High



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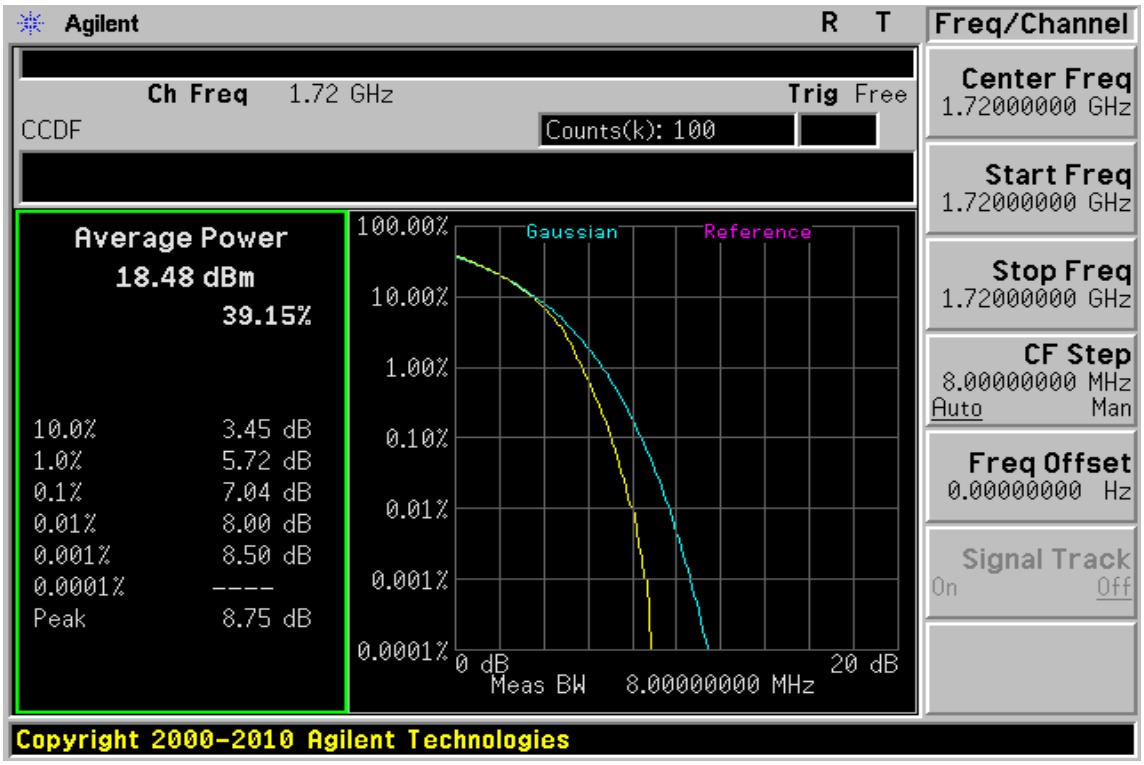
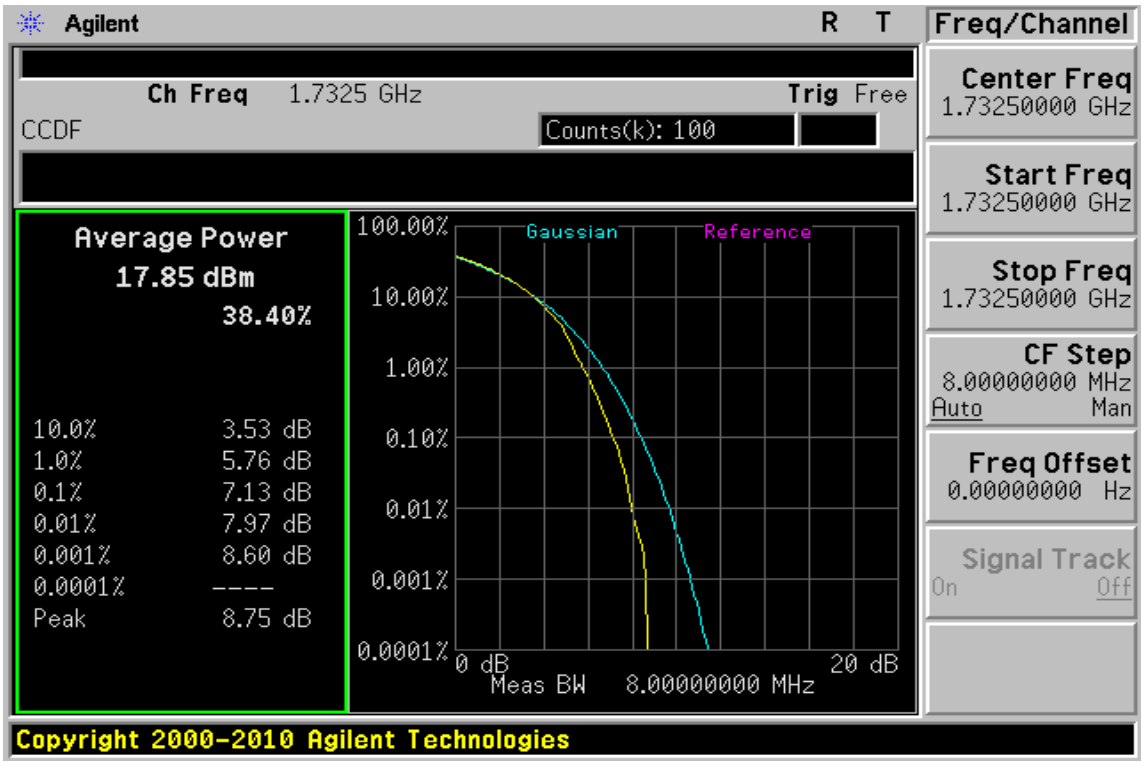
20MHz BW LTE-Band 4 16QAM Channel Low



20MHz BW LTE-Band 4 16QAM Channel Mid



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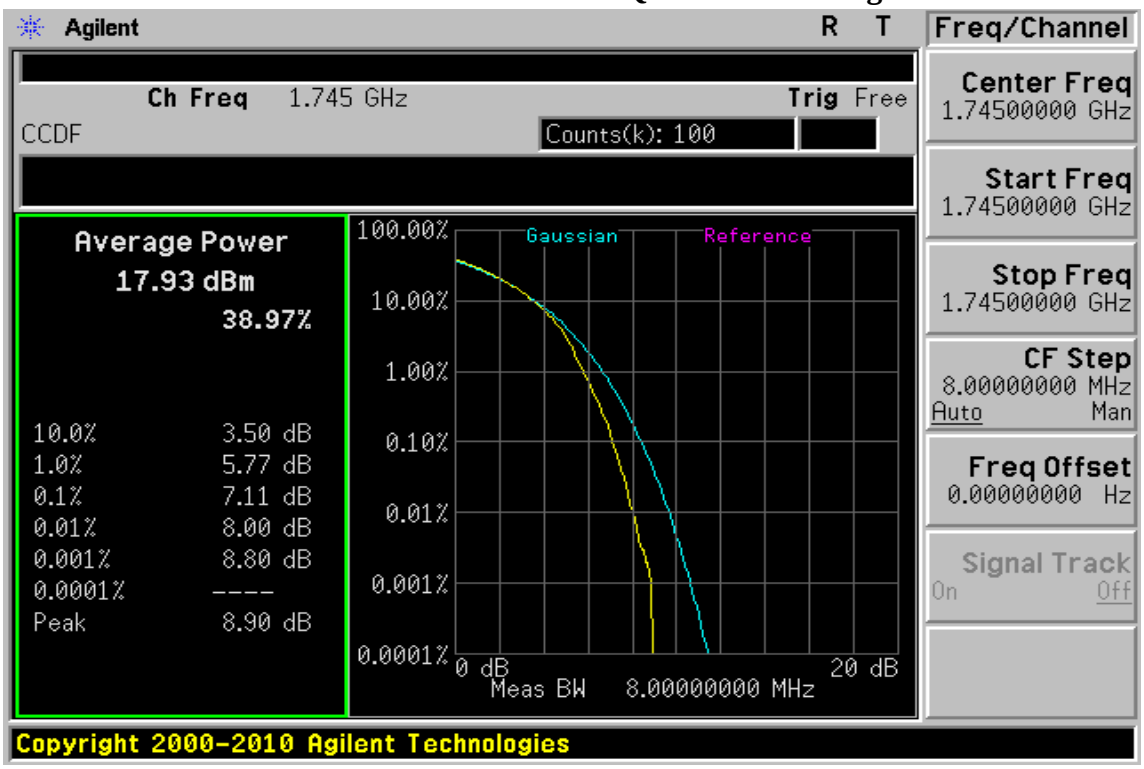
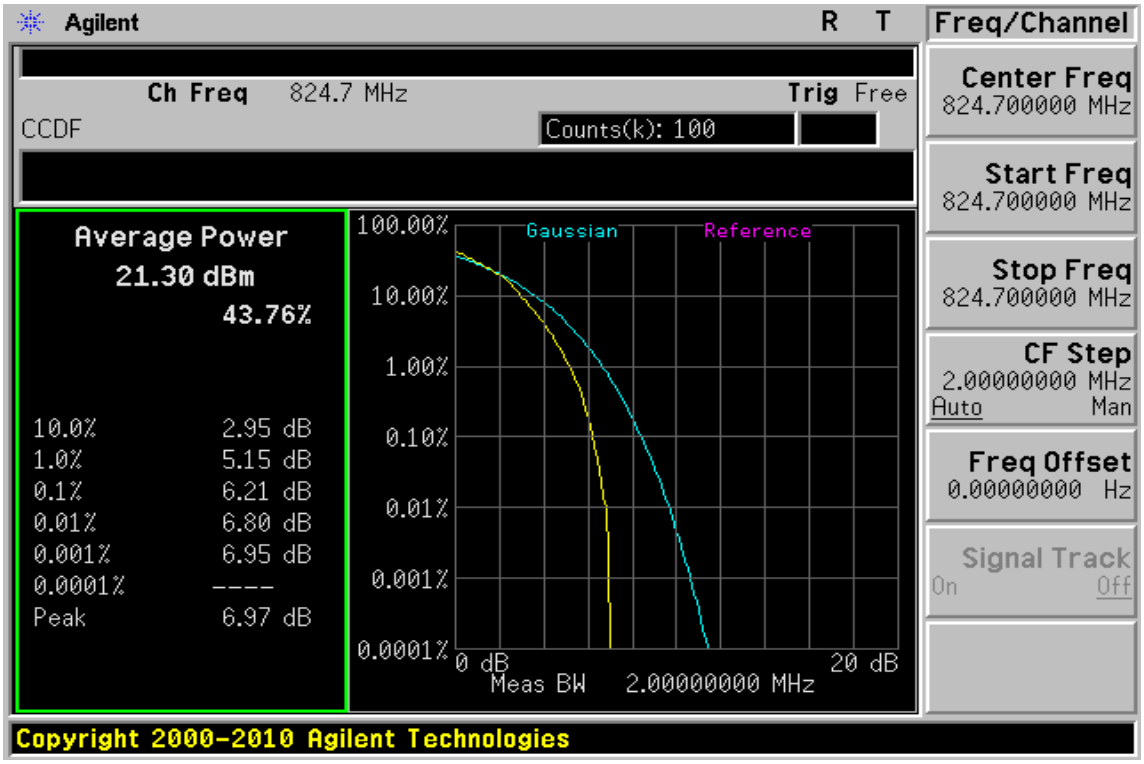
20MHz BW LTE-Band 4 16QAM Channel High



1.4MHz BW LTE-Band 5 16QAMChannel Low



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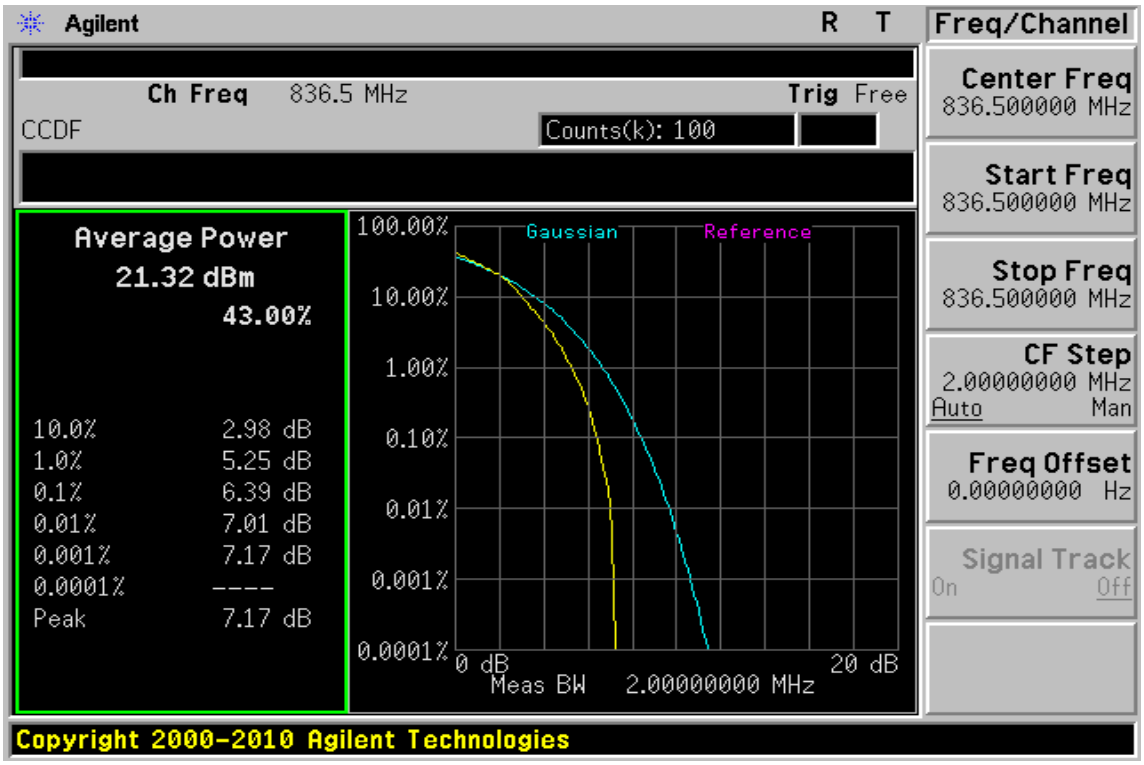
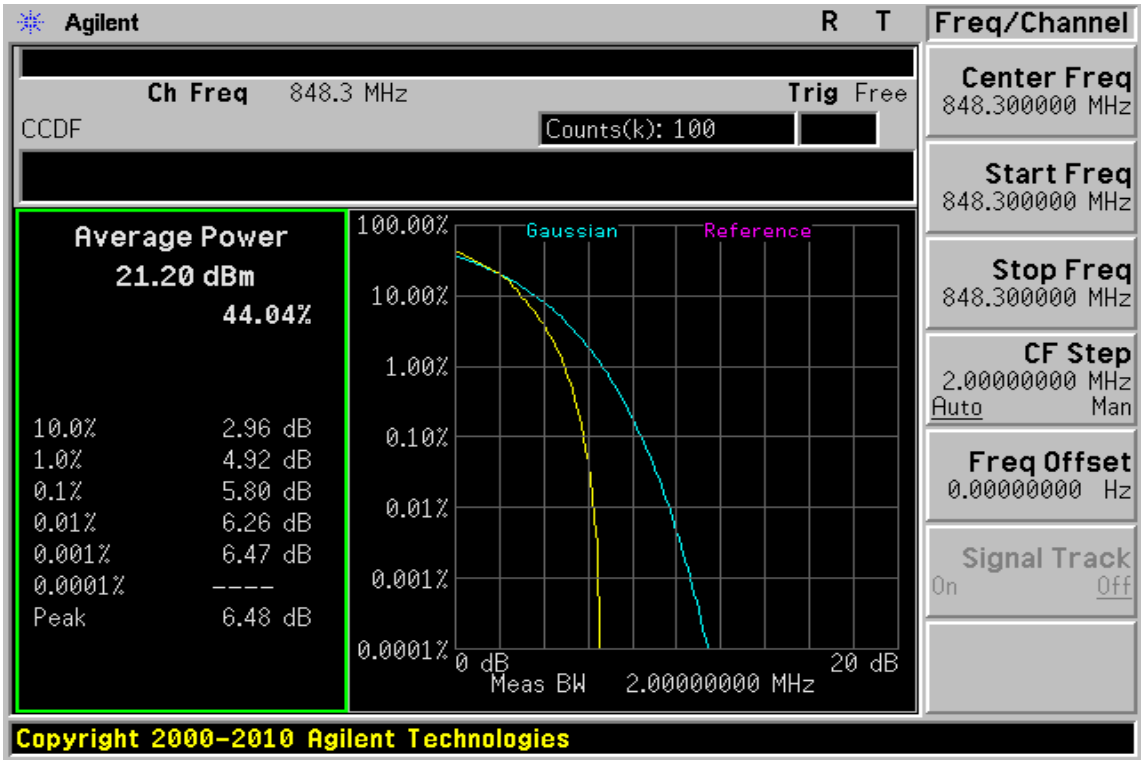
1.4MHz BW LTE-Band 5 16QAM Channel Mid



1.4MHz BW LTE-Band 5 16QAM Channel High



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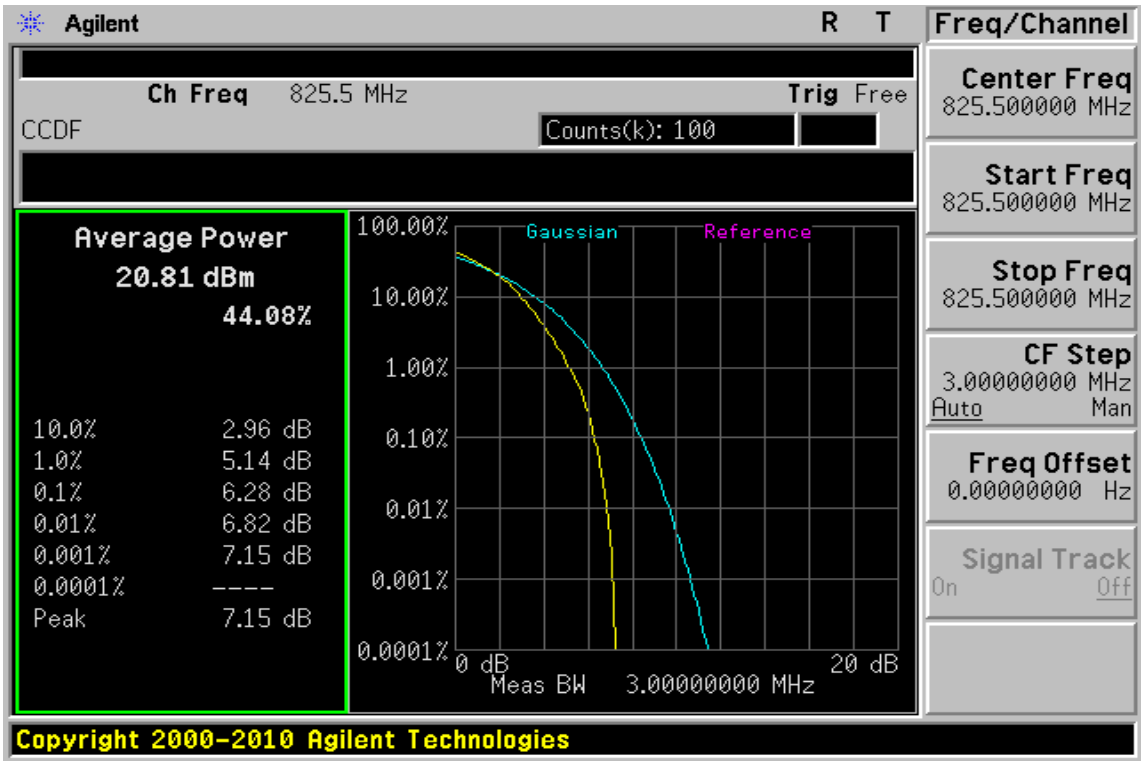
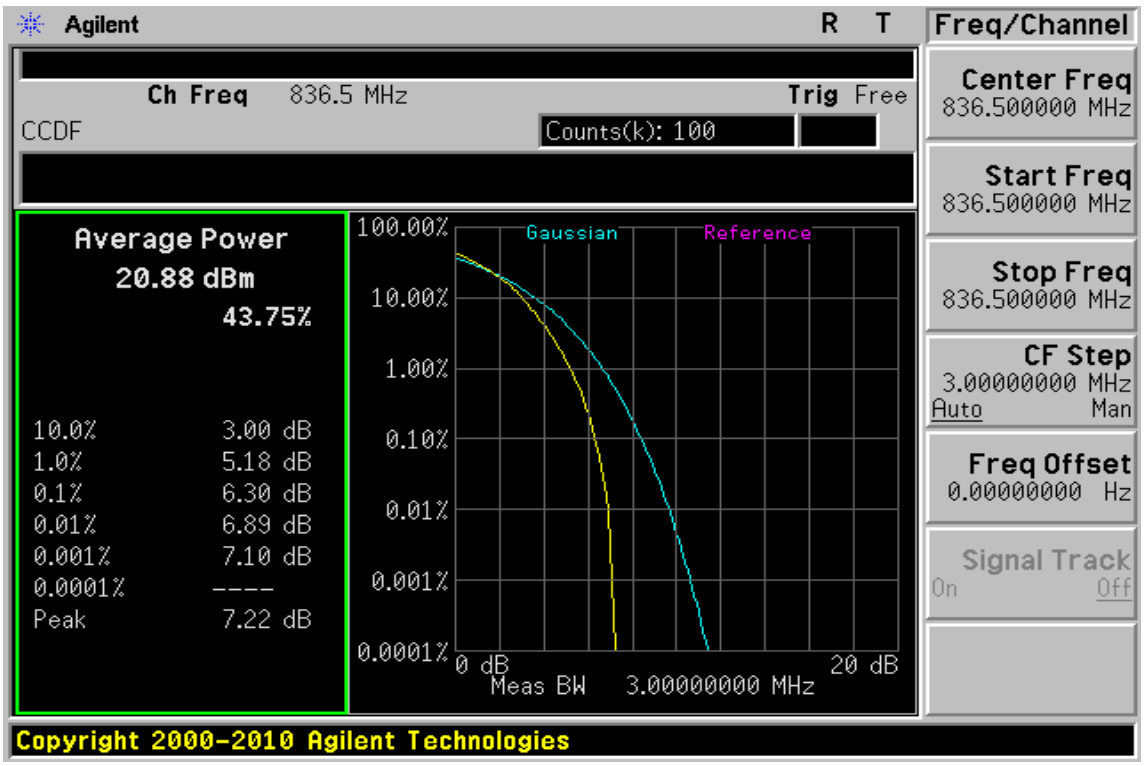
3MHz BW LTE-Band 5 16QAM Channel Low



3MHz BW LTE-Band 5 16QAM Channel Mid



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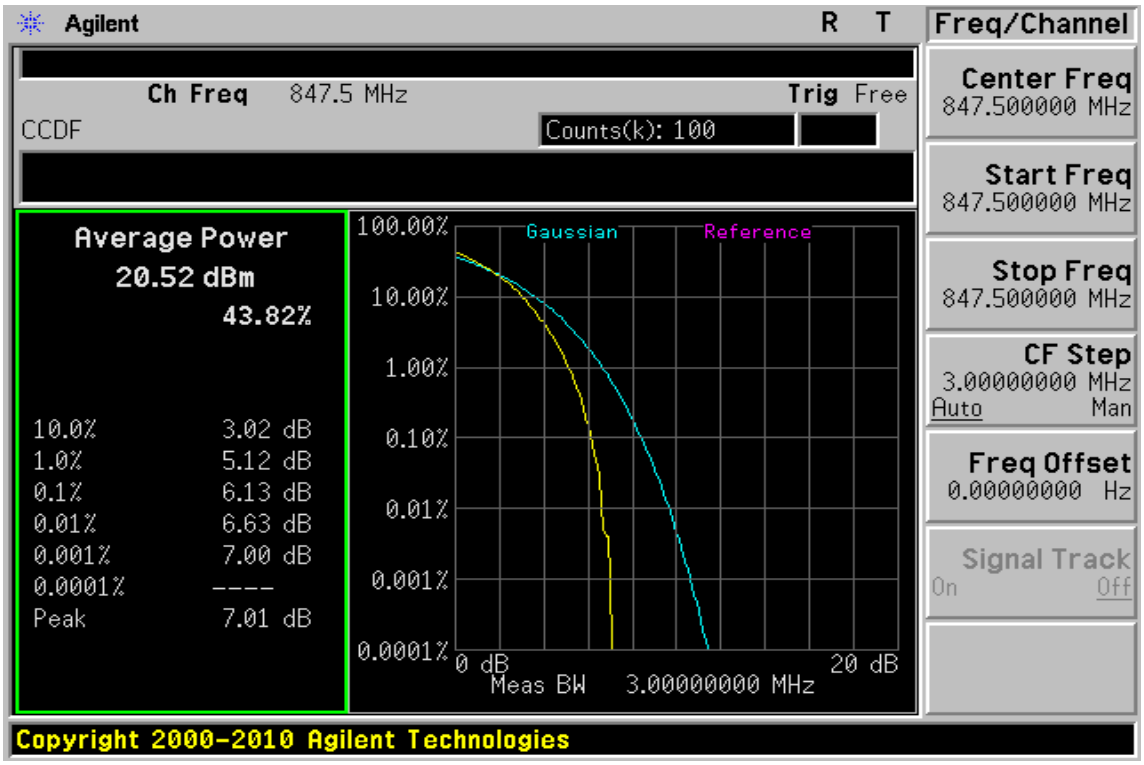
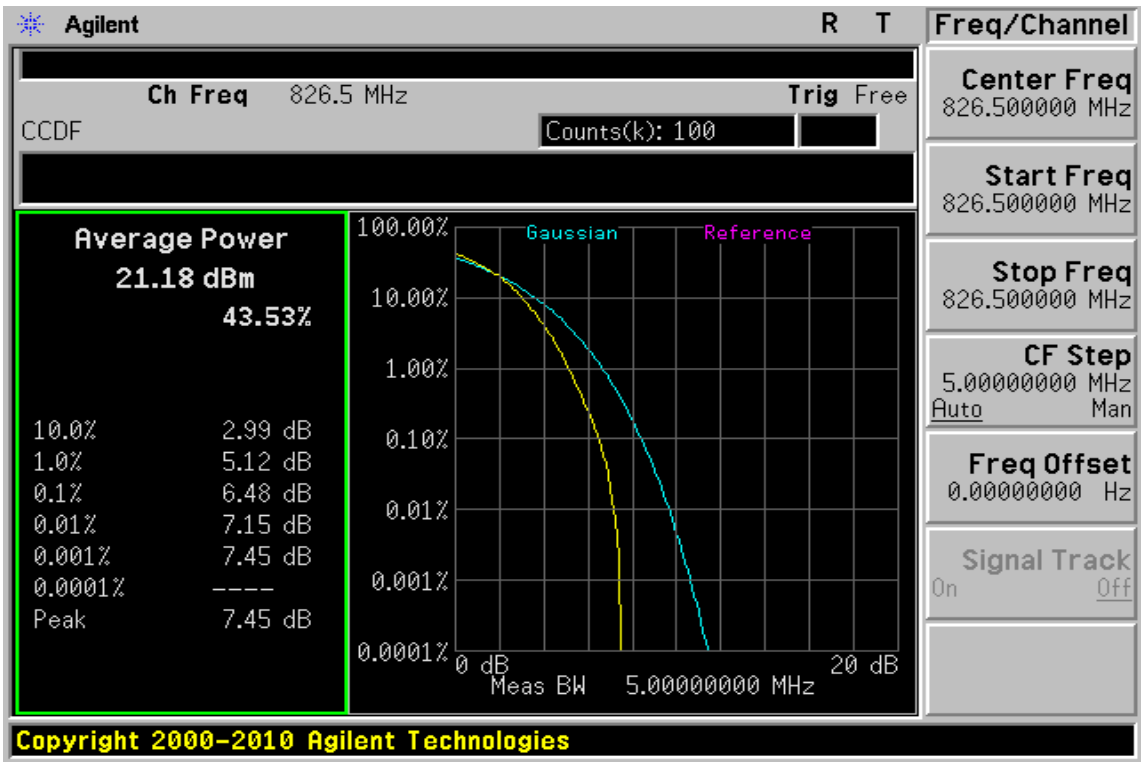
3MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 5 16QAM Channel Low



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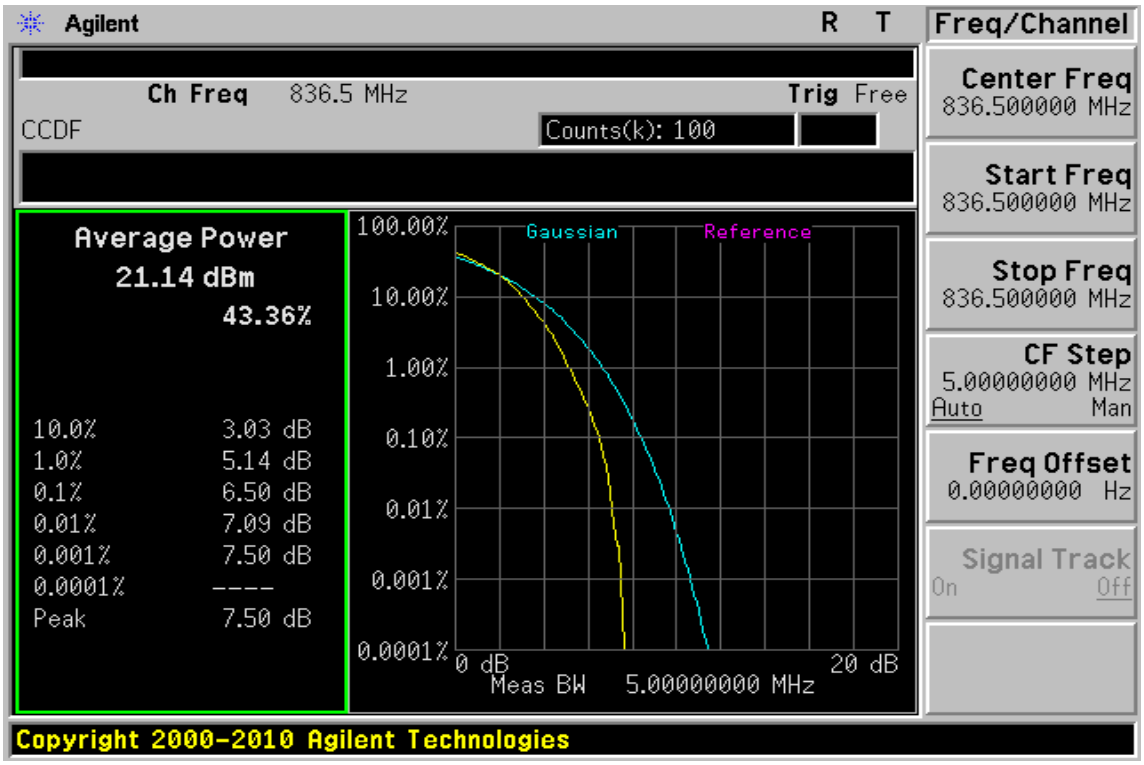
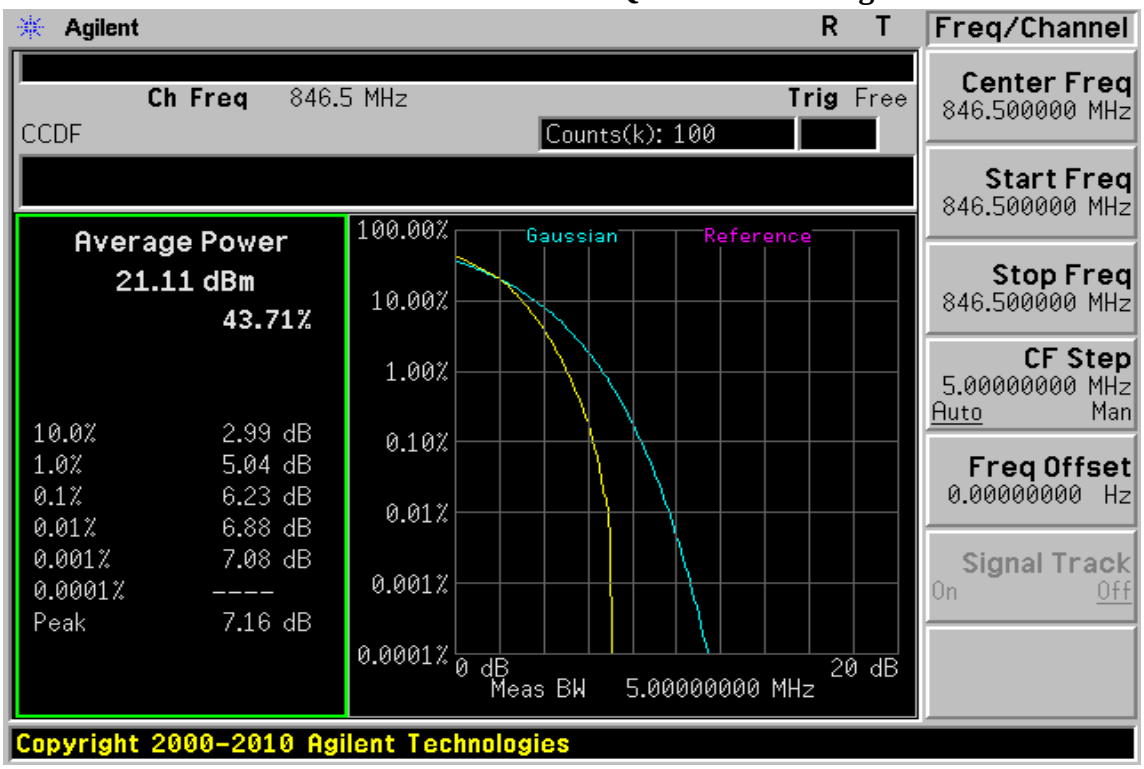
5MHz BW LTE-Band 5 16QAM Channel Mid



5MHz BW LTE-Band 5 16QAM Channel High



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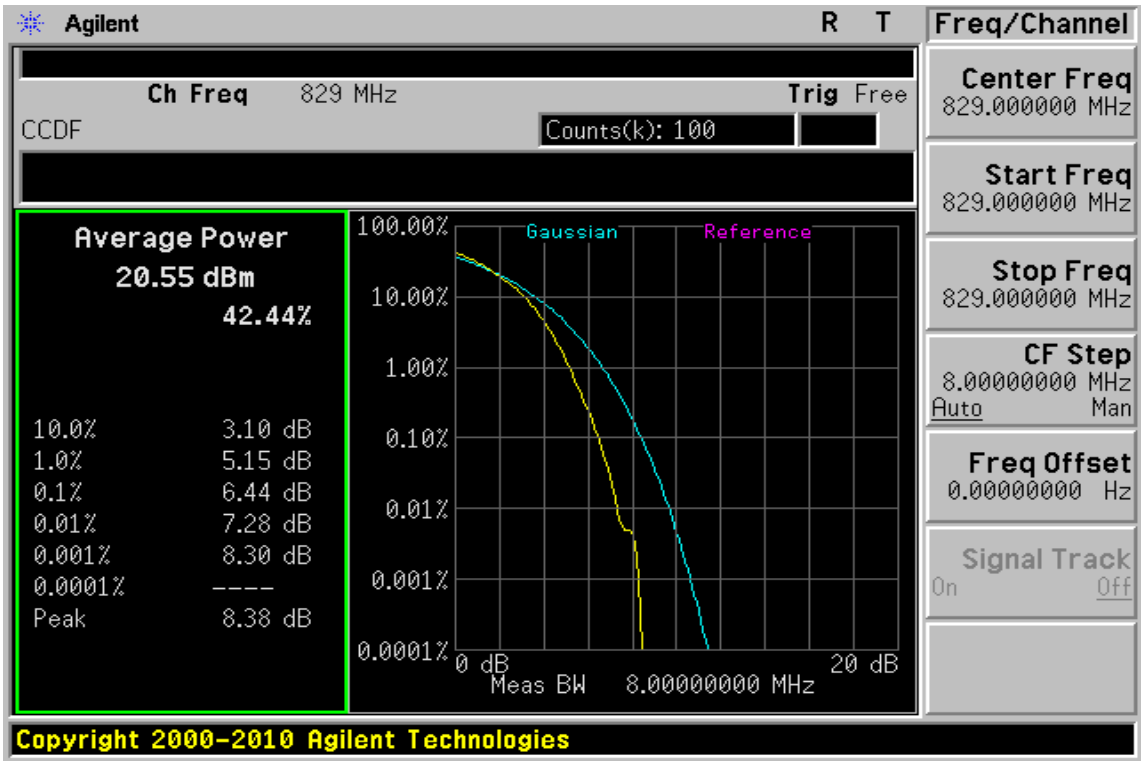
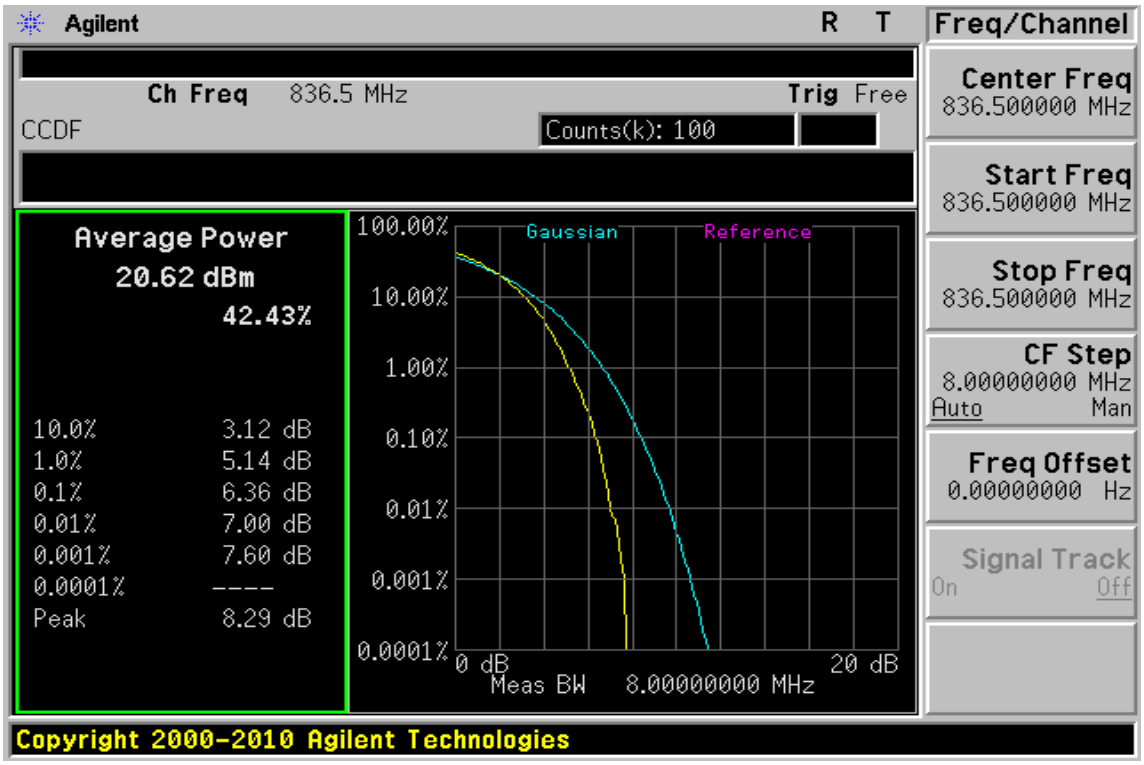
10MHz BW LTE-Band 5 16QAM Channel Low



10MHz BW LTE-Band 5 16QAM Channel Mid



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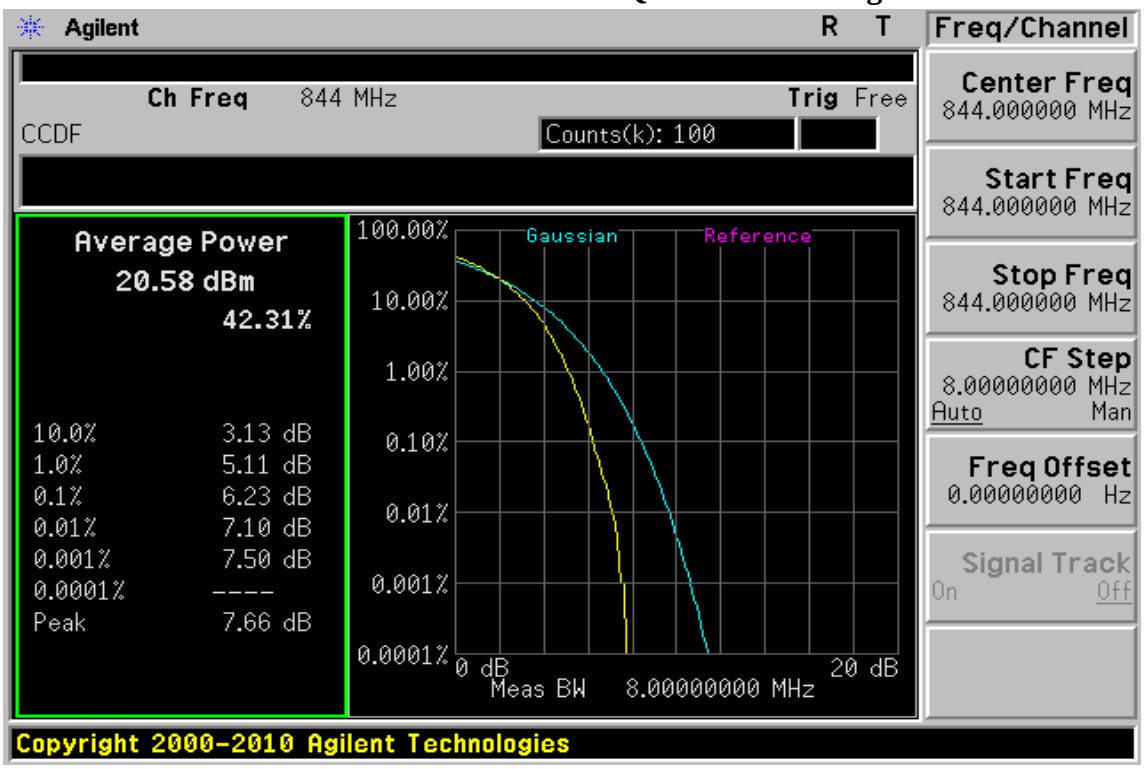
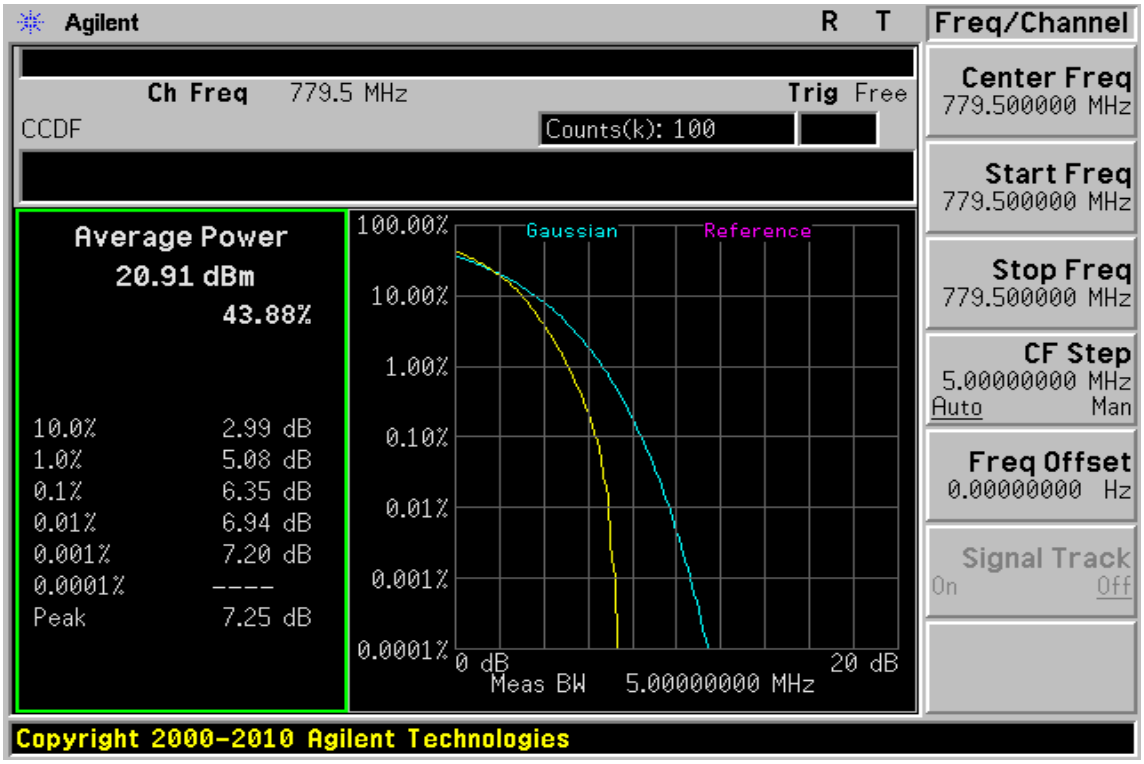
10MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 13 16QAM Channel Low



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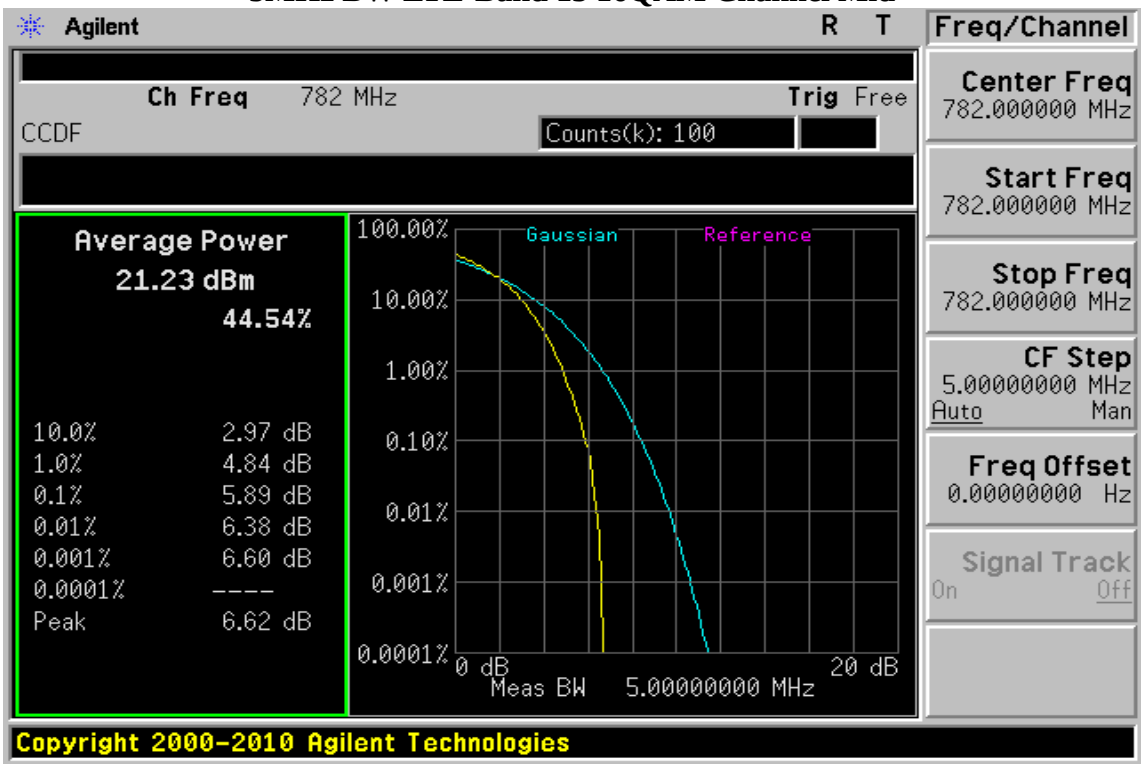
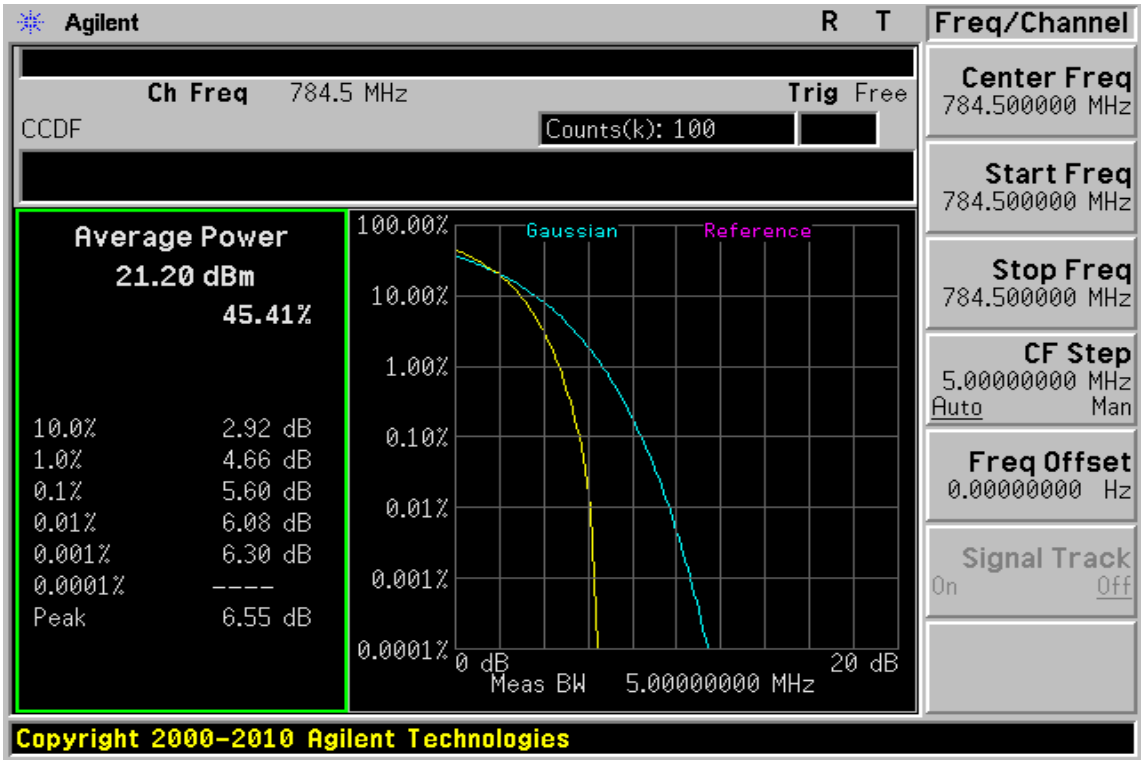
5MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 13 16QAM Channel High



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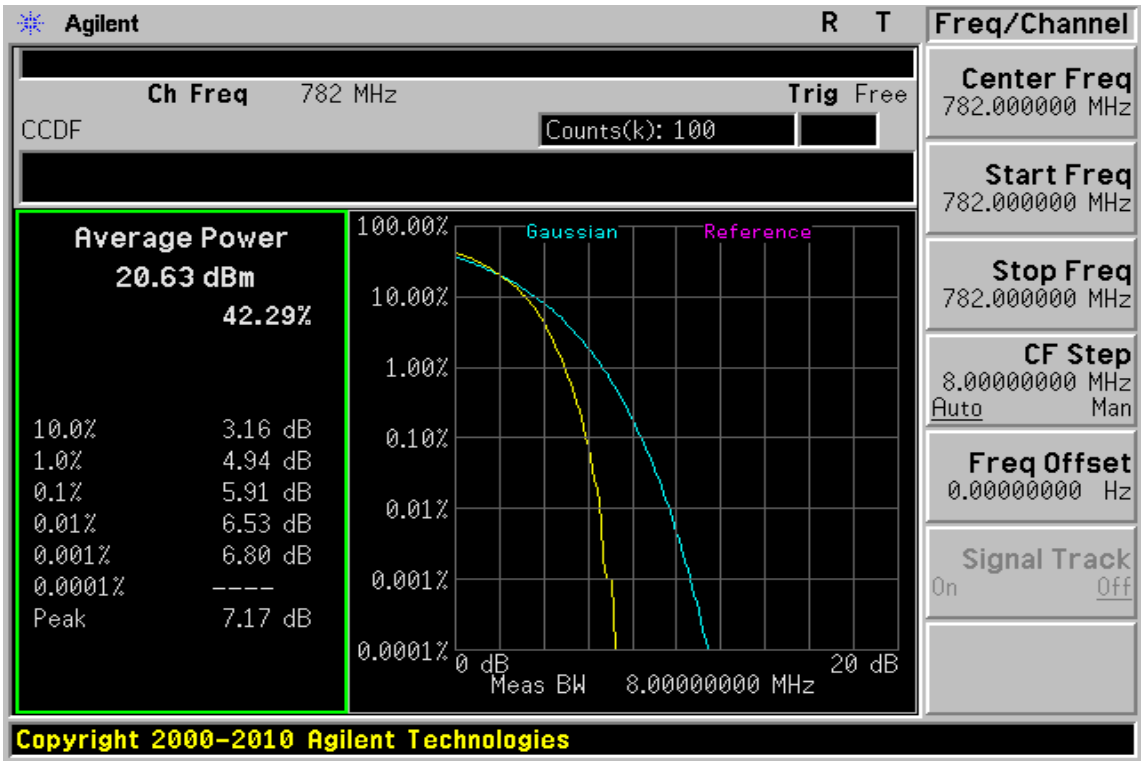
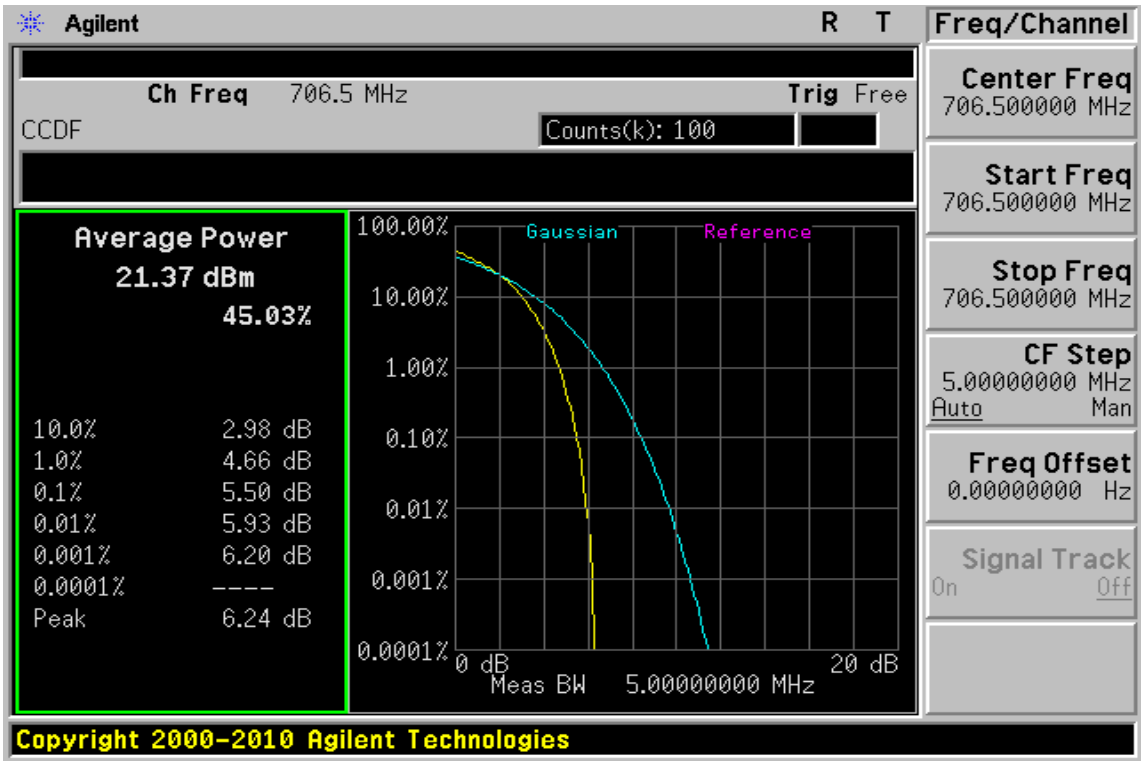
10MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 17 16QAM Channel Low



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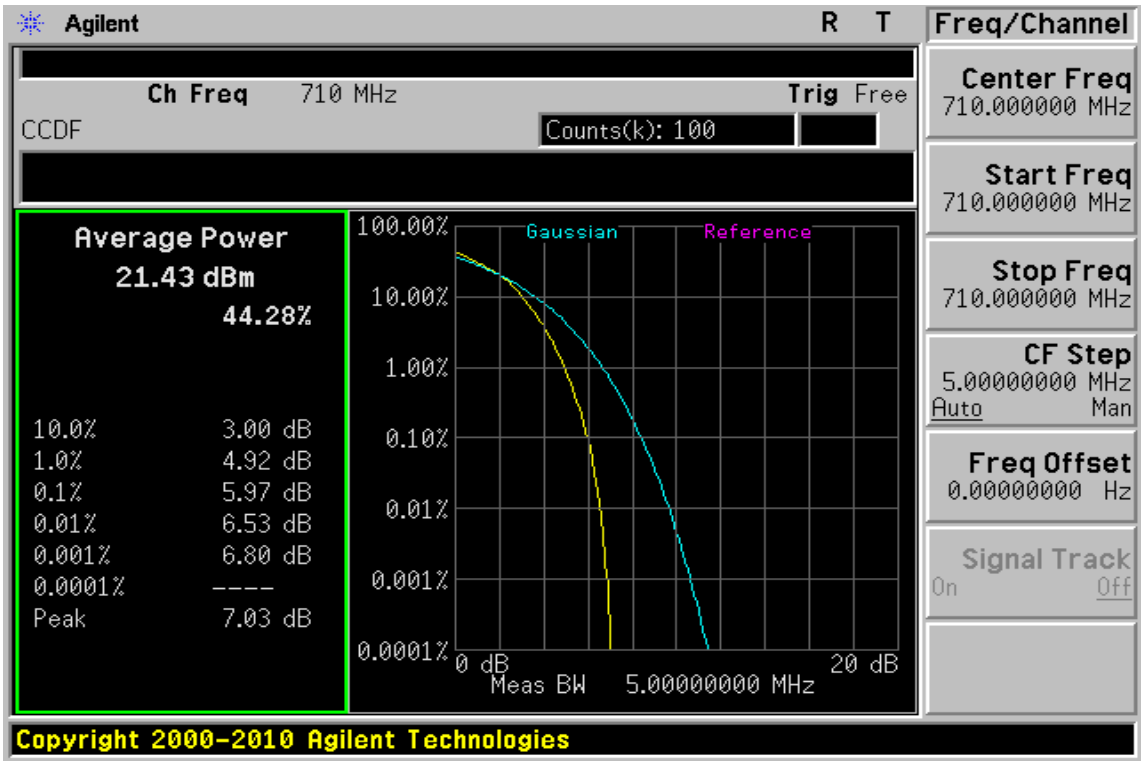
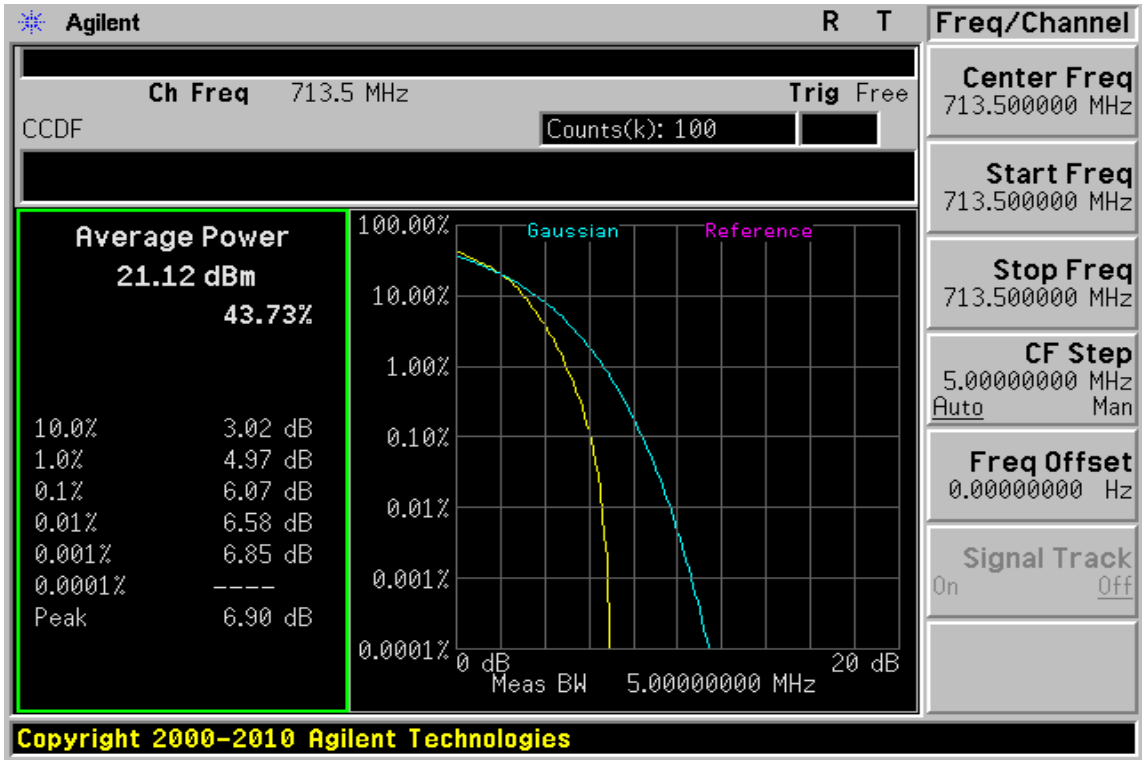
5MHz BW LTE-Band 17 16QAM Channel Mid



5MHz BW LTE-Band 17 16QAM Channel High



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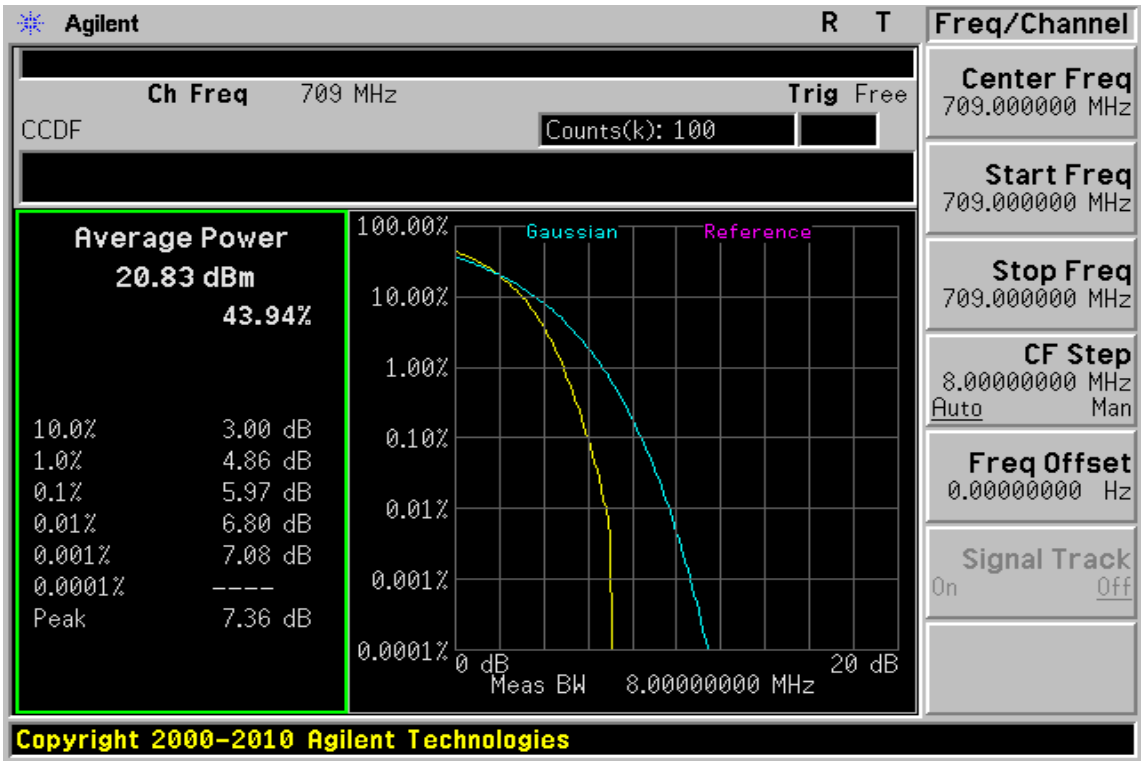
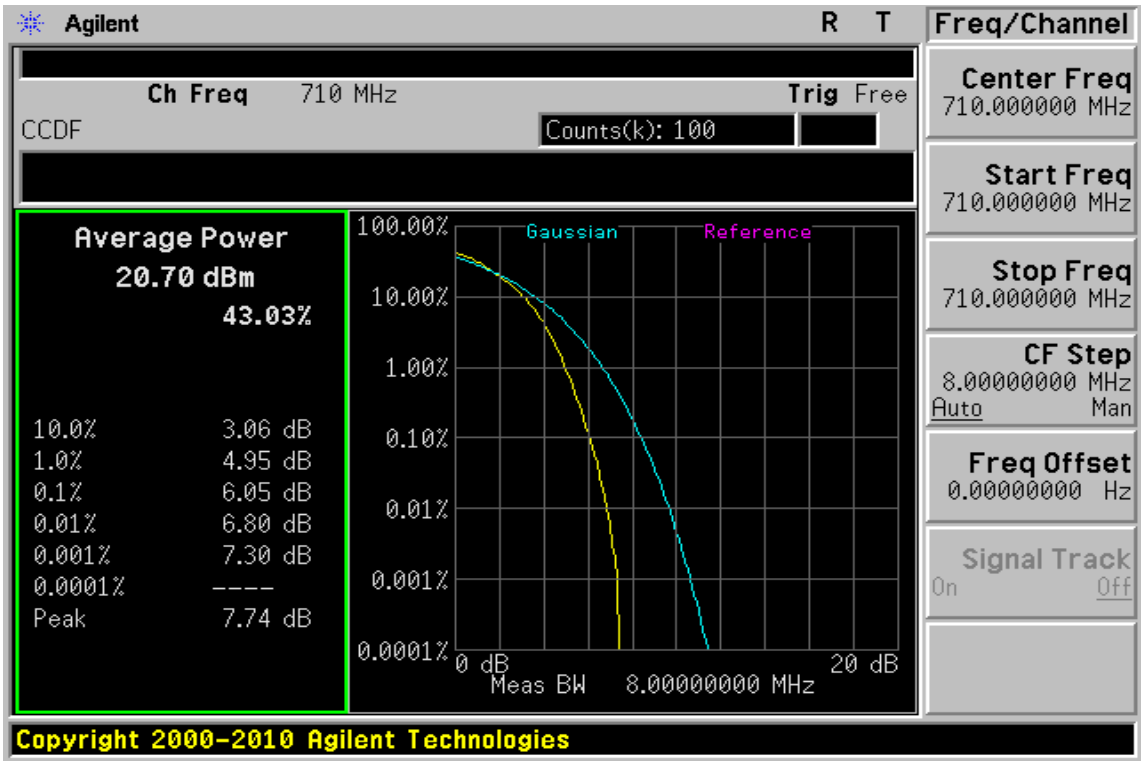
10MHz BW LTE-Band 17 16QAM Channel Low



10MHz BW LTE-Band 17 16QAM Channel Mid



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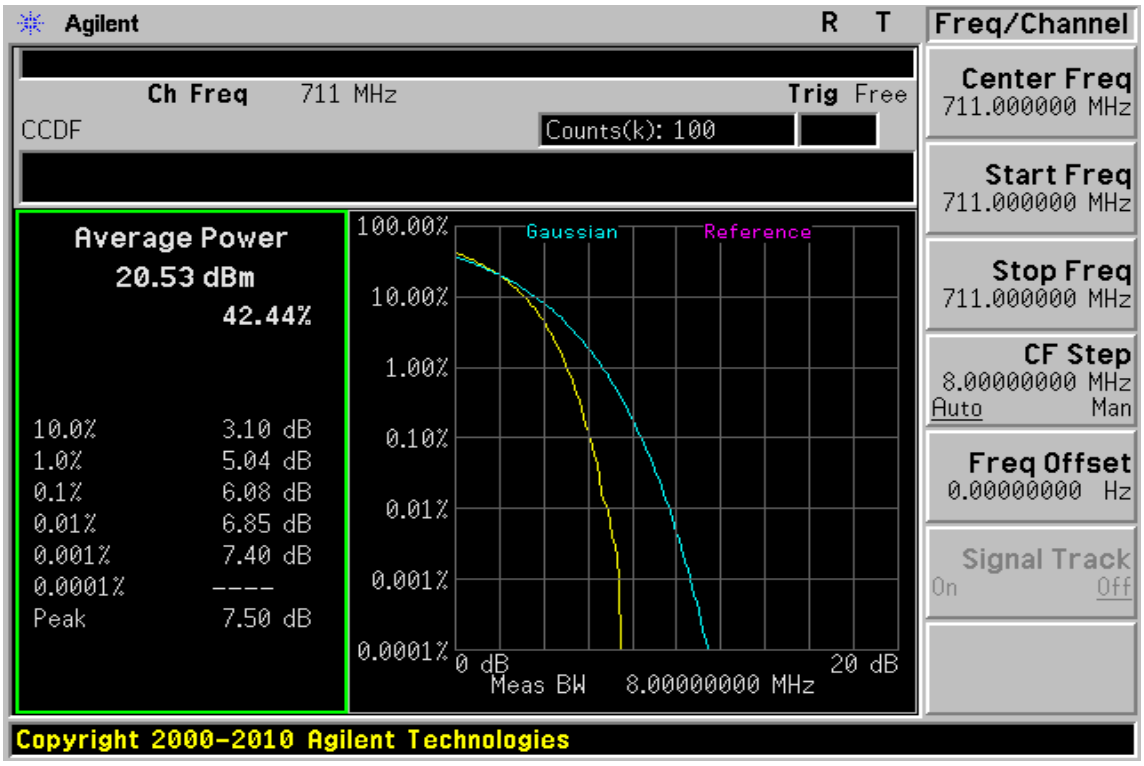
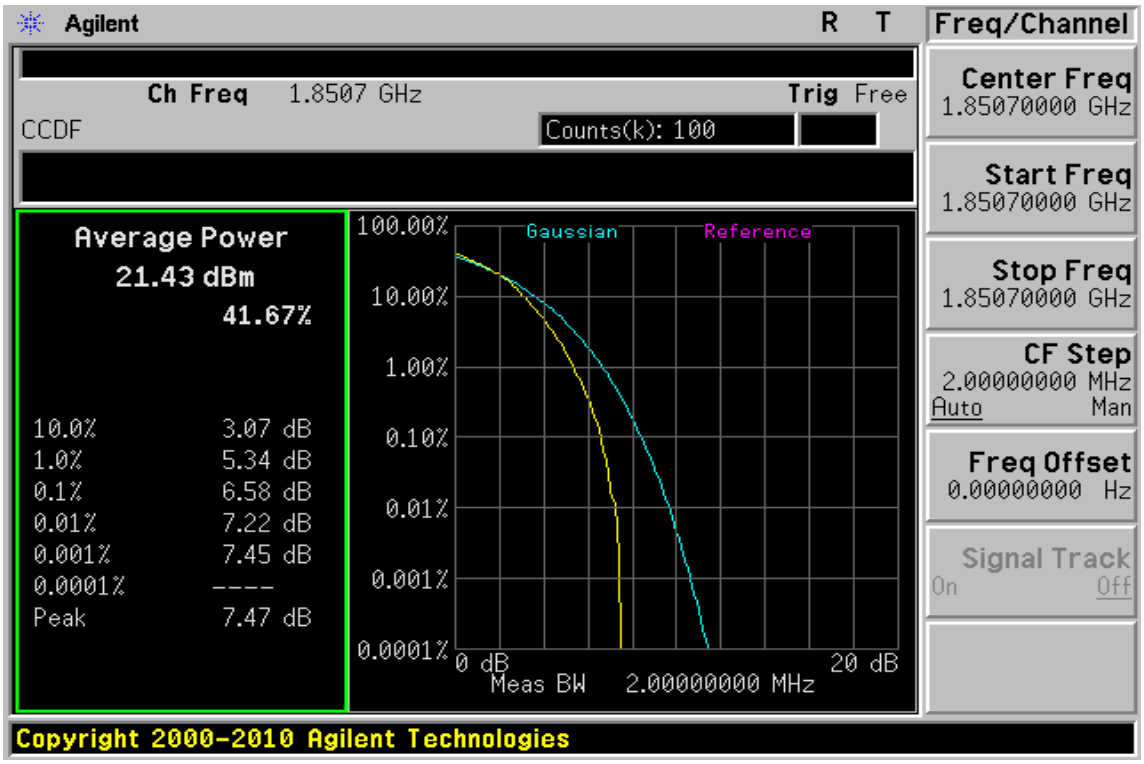
10MHz BW LTE-Band 17 16QAM Channel High



1.4MHz BW LTE-Band 25 16QAM Channel Low



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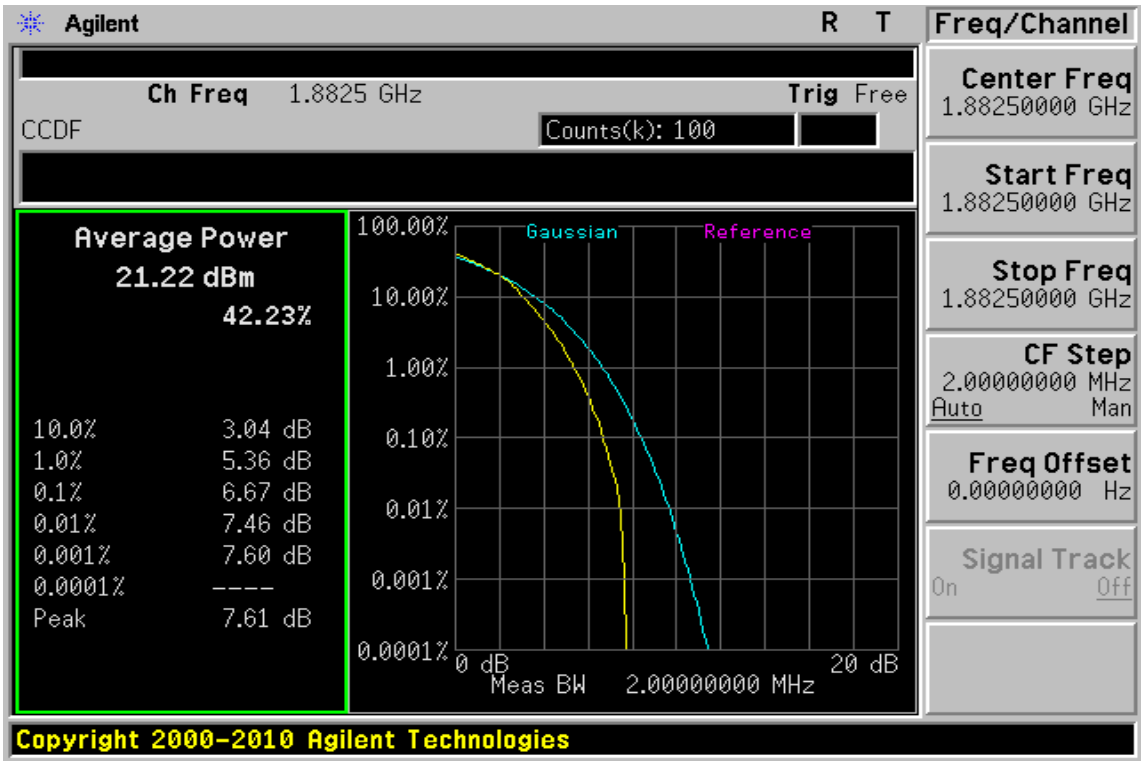
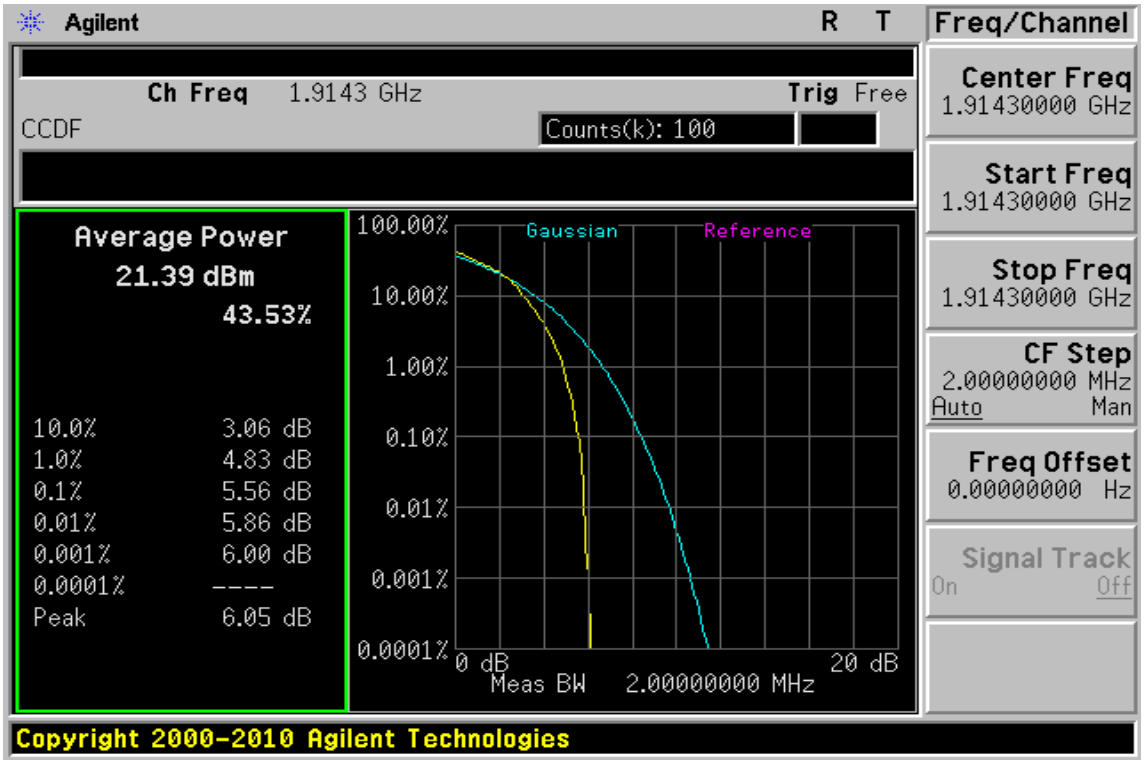
1.4MHz BW LTE-Band 25 16QAM Channel Mid



1.4MHz BW LTE-Band 25 16QAM Channel High



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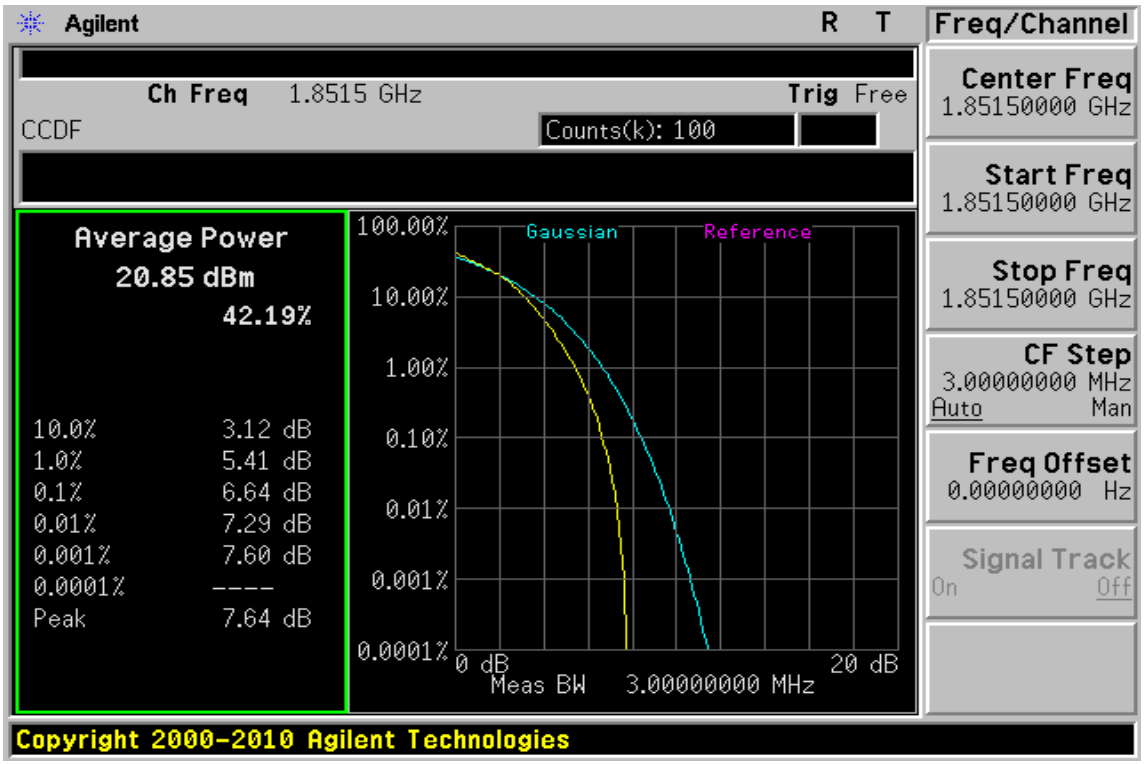
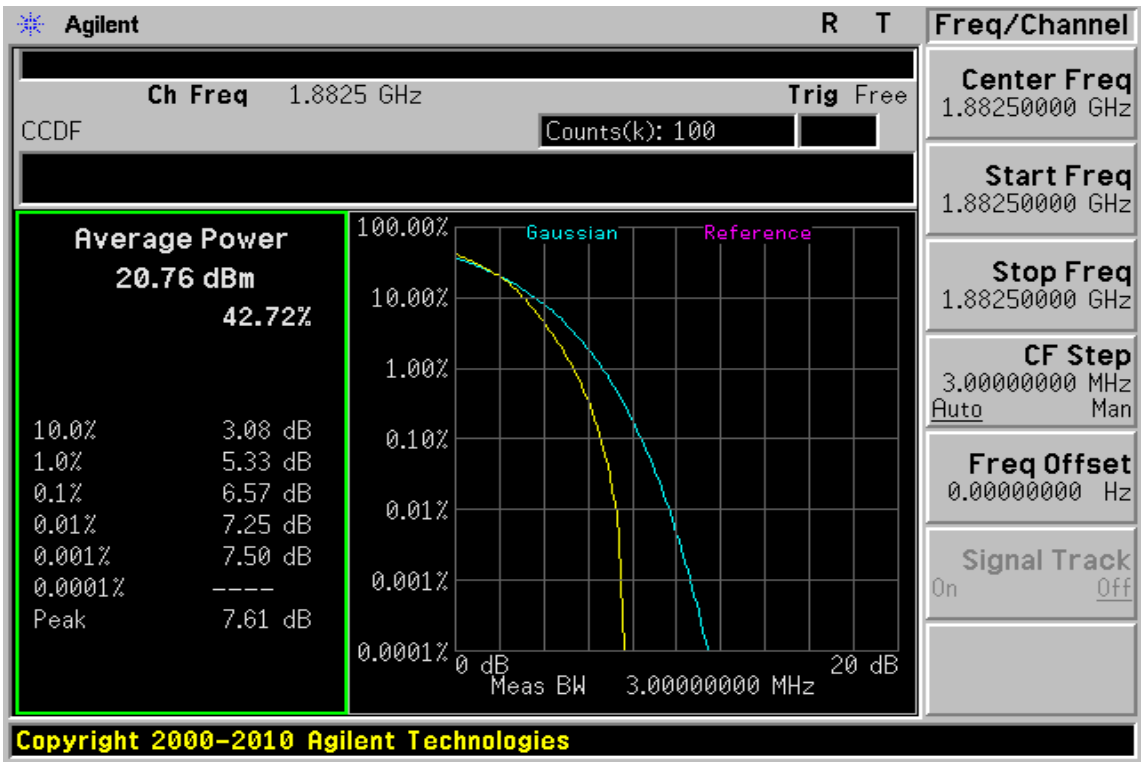
3MHz BW LTE-Band 25 16QAM Channel Low



3MHz BW LTE-Band 25 16QAM Channel Mid



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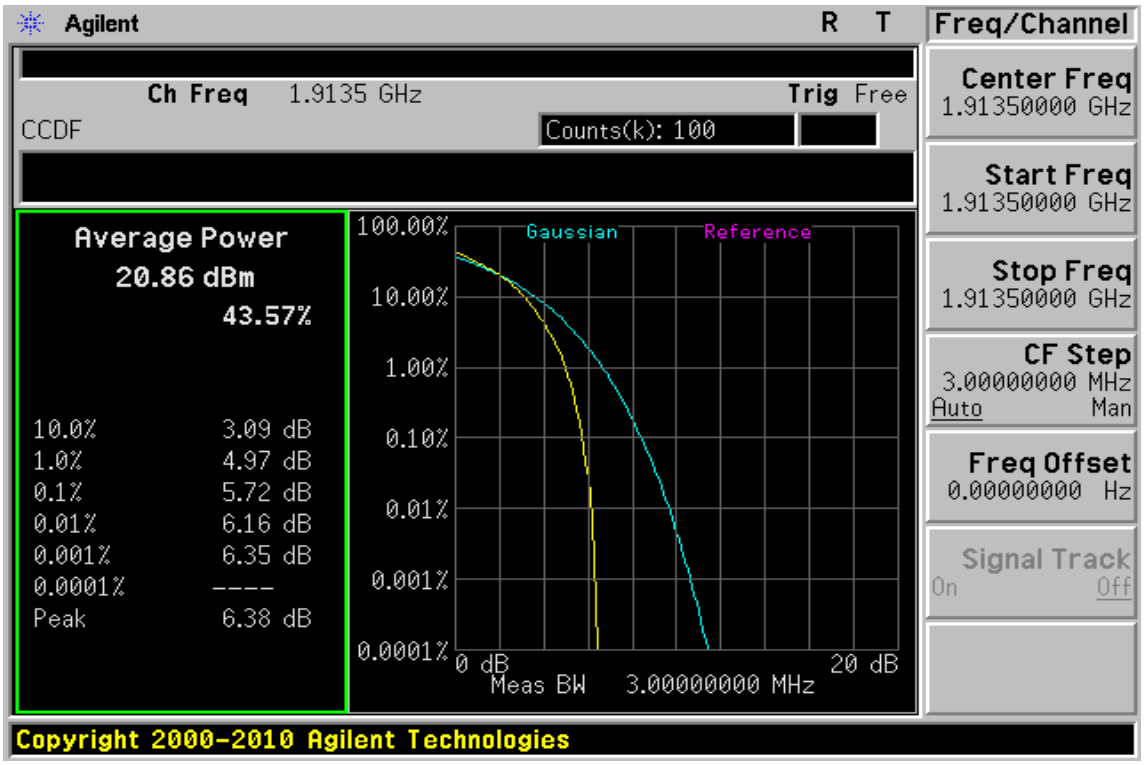
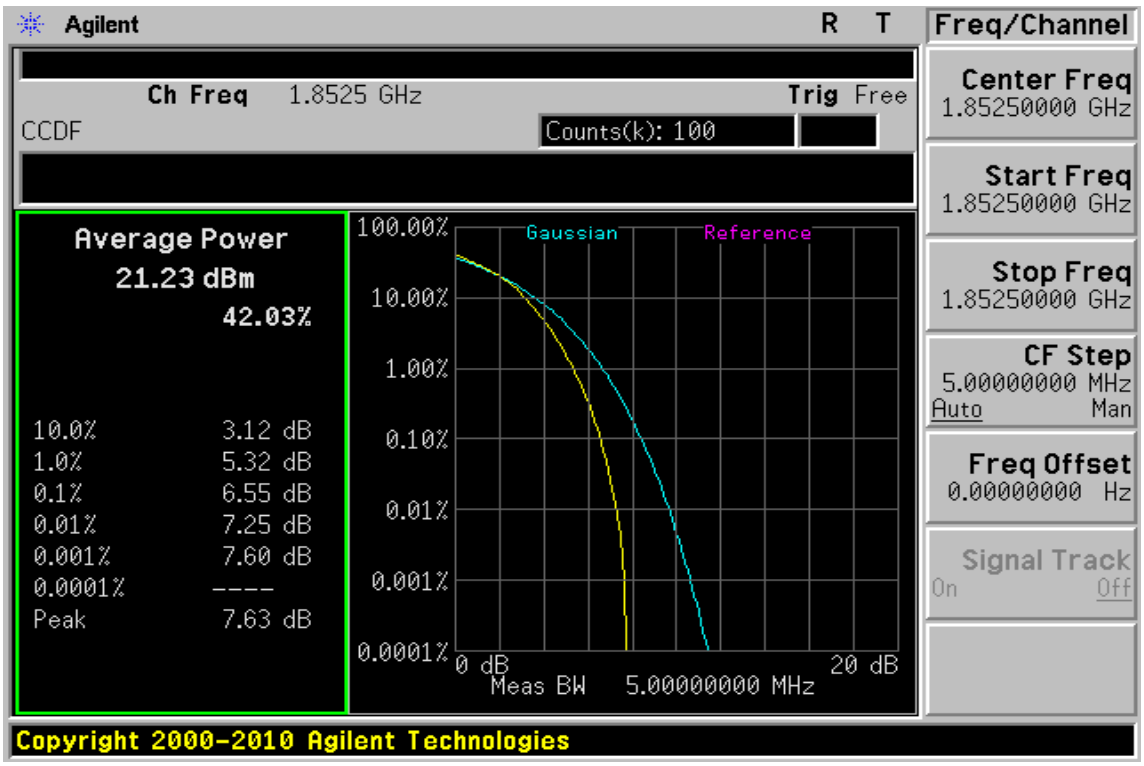
3MHz BW LTE-Band 25 16QAM Channel High



5MHz BW LTE-Band 25 16QAM Channel Low



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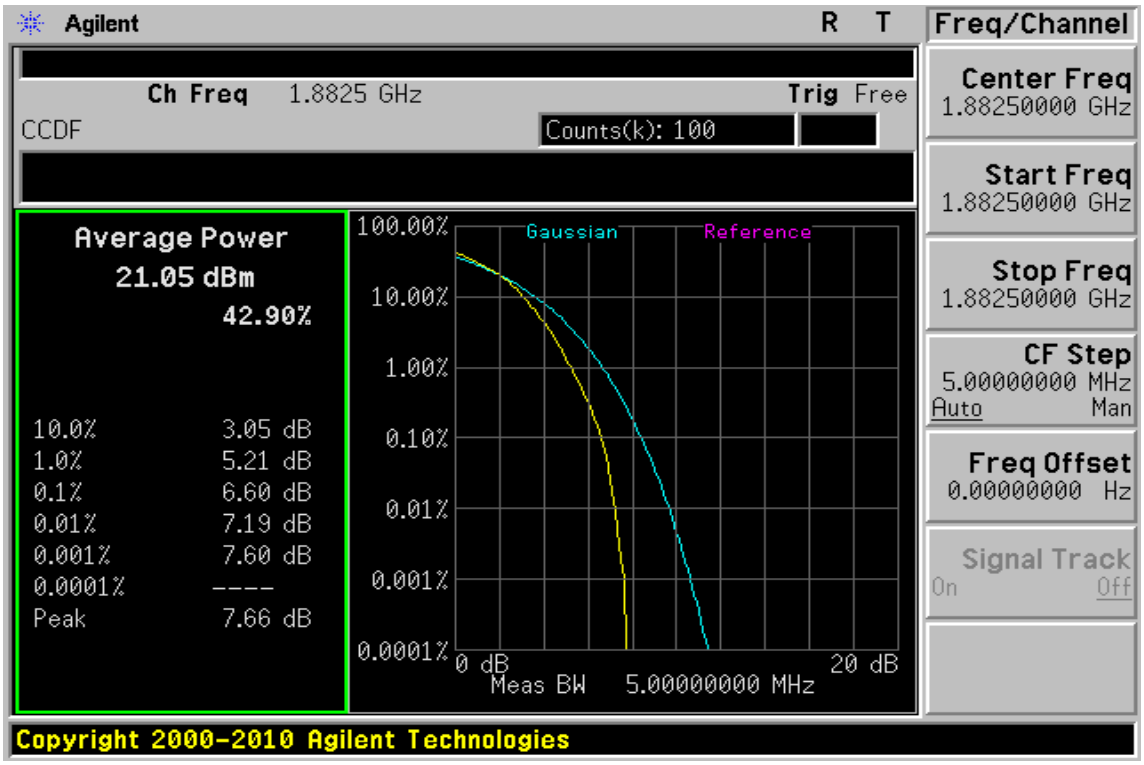
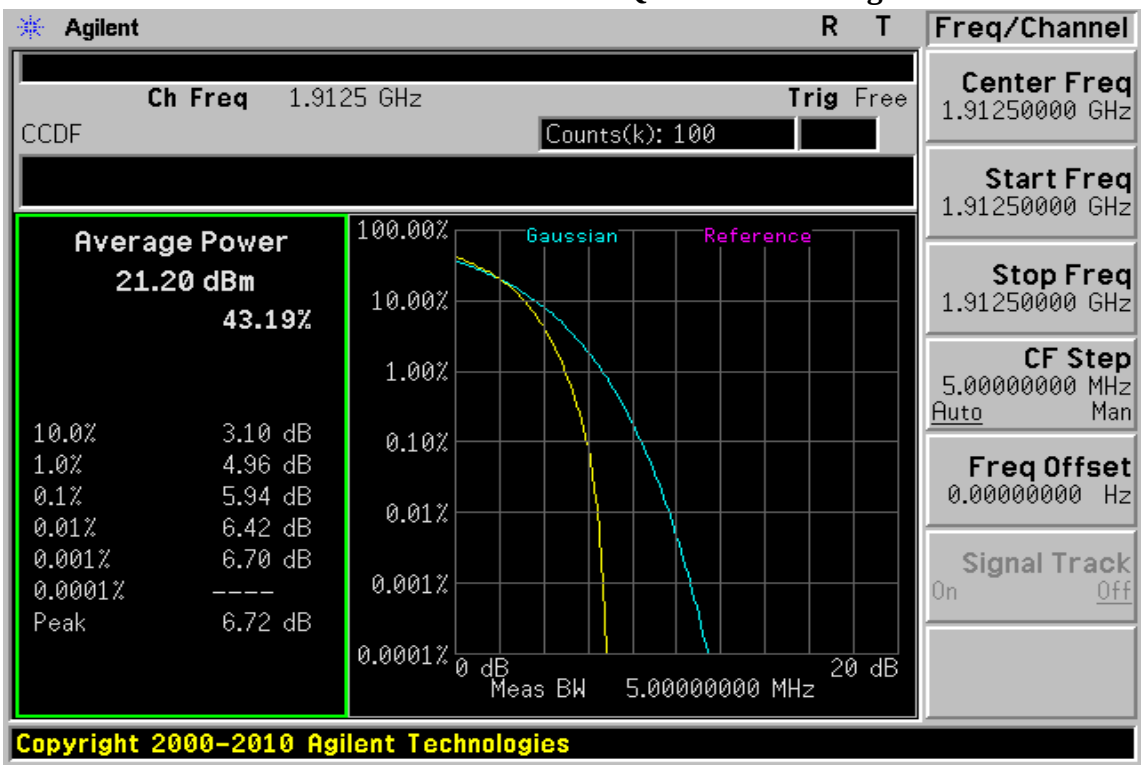
5MHz BW LTE-Band 25 16QAM Channel Mid



5MHz BW LTE-Band 25 16QAM Channel High



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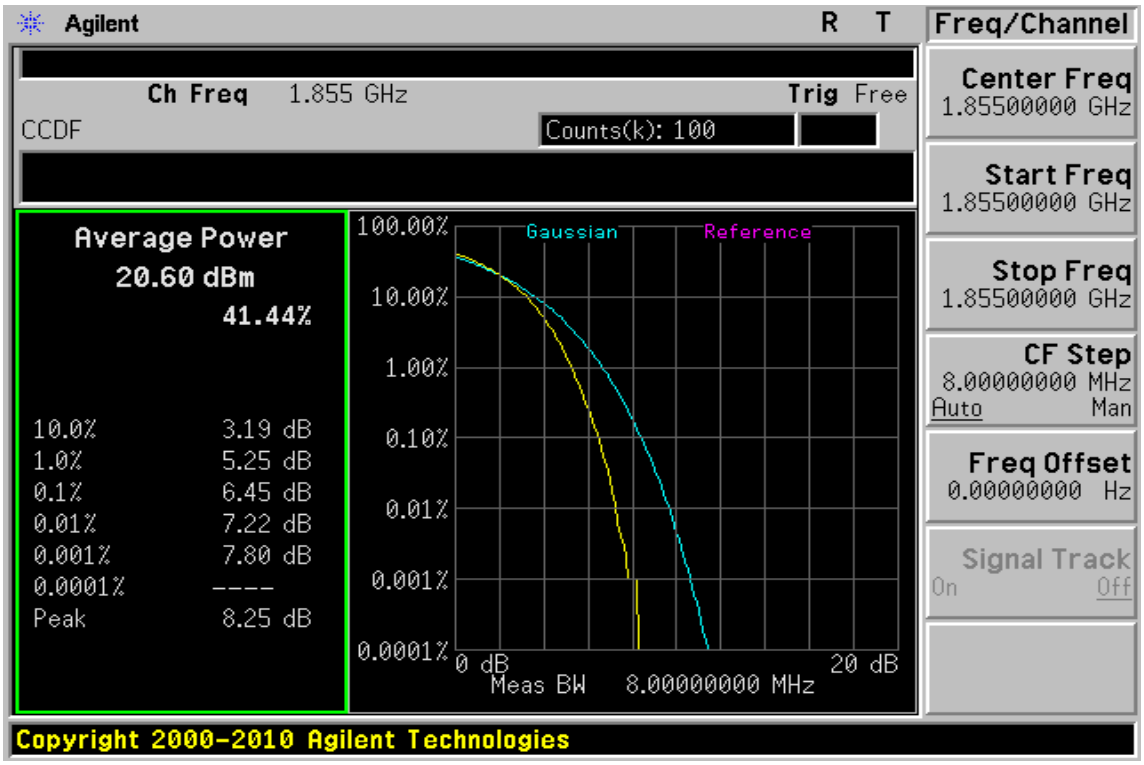
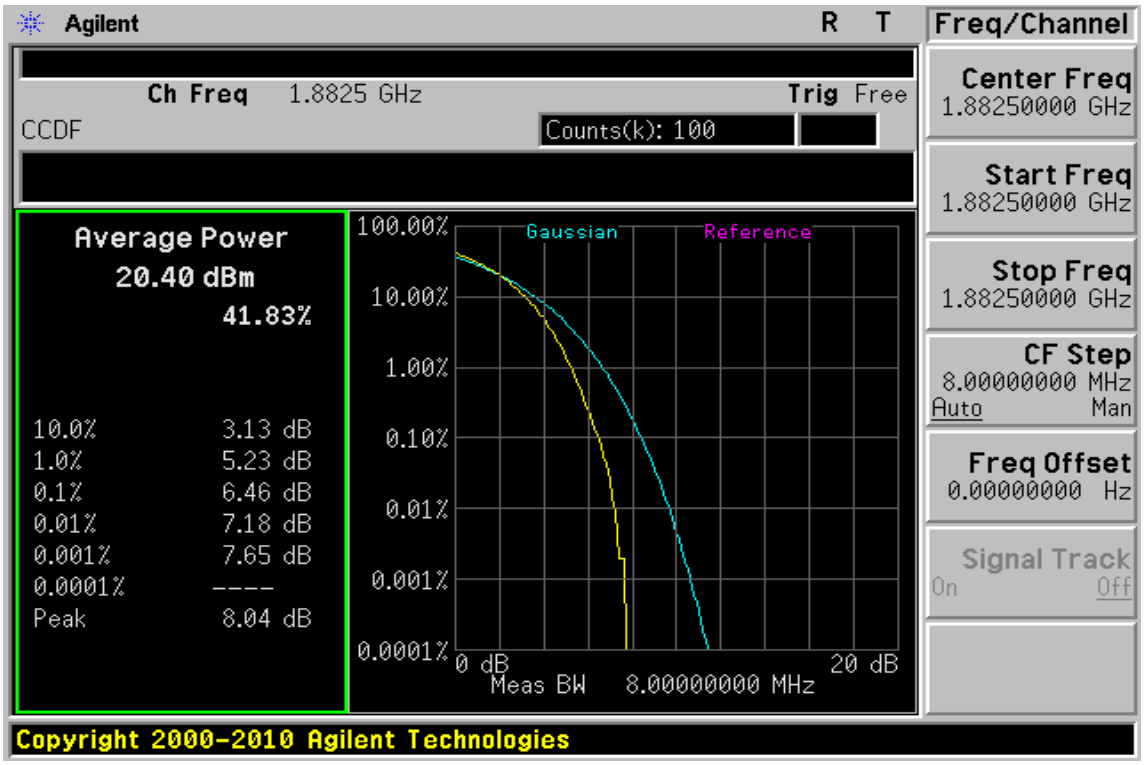
10MHz BW LTE-Band 25 16QAM Channel Low



10MHz BW LTE-Band 25 16QAM Channel Mid



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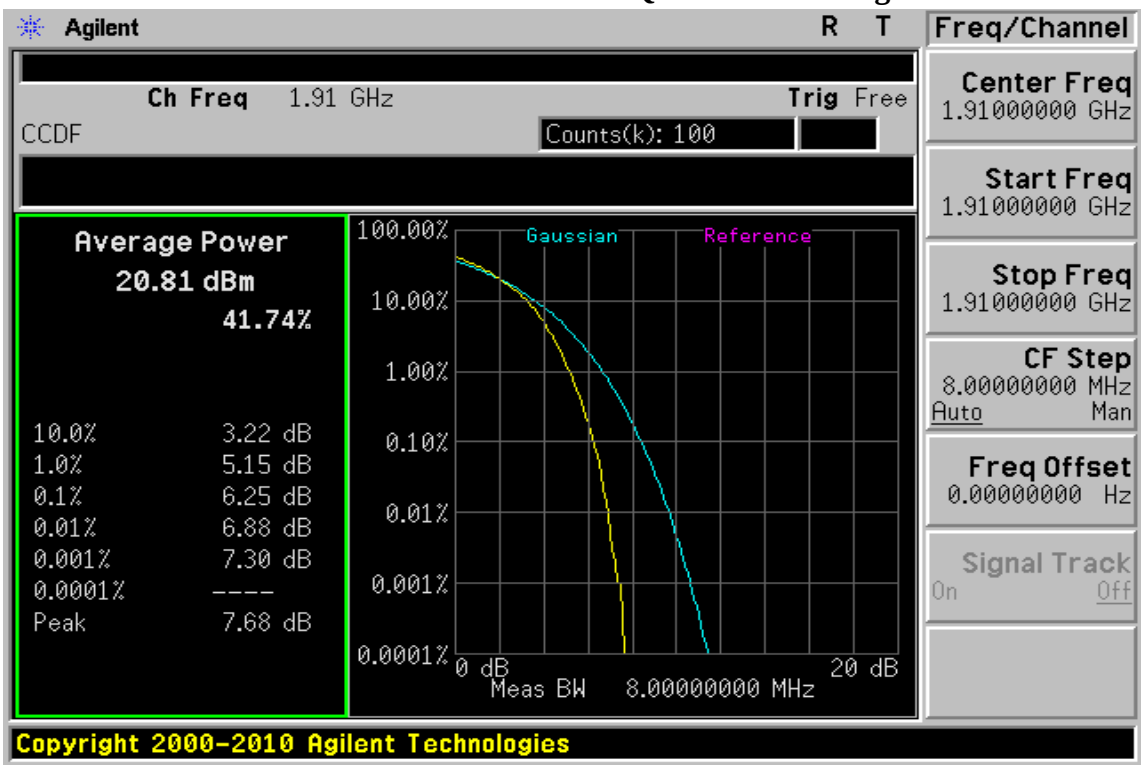
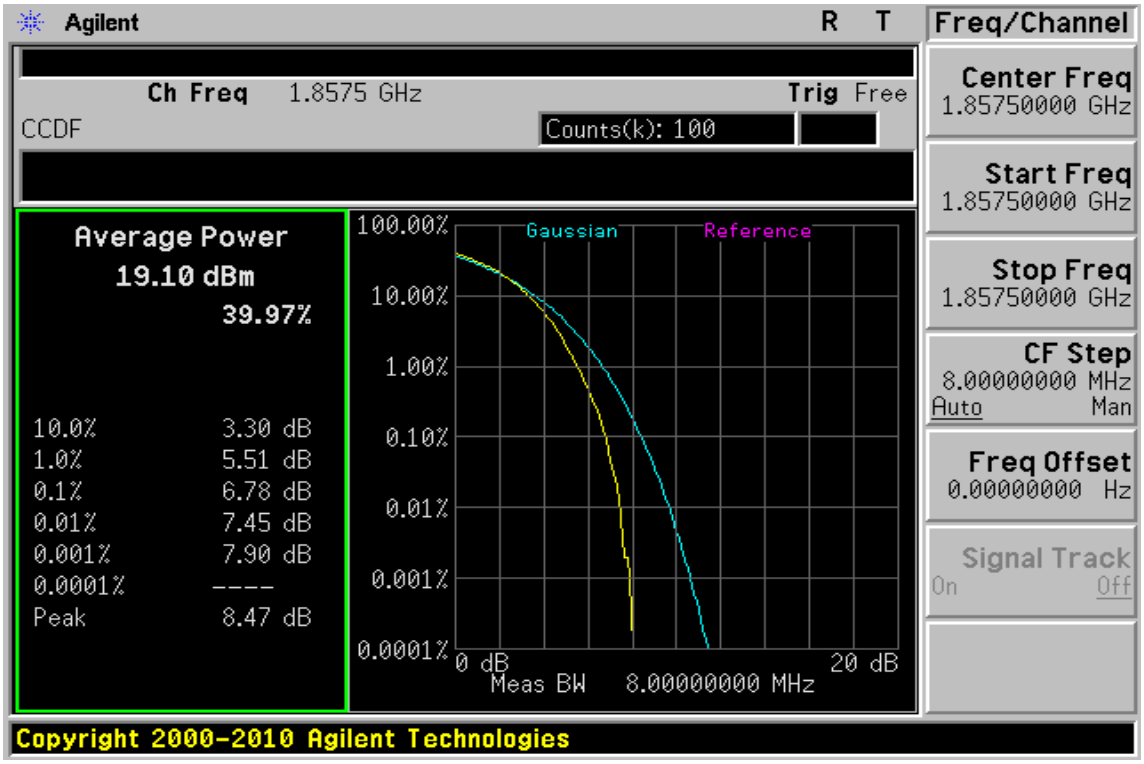
10MHz BW LTE-Band 25 16QAM Channel High



15MHz BW LTE-Band 25 16QAM Channel Low



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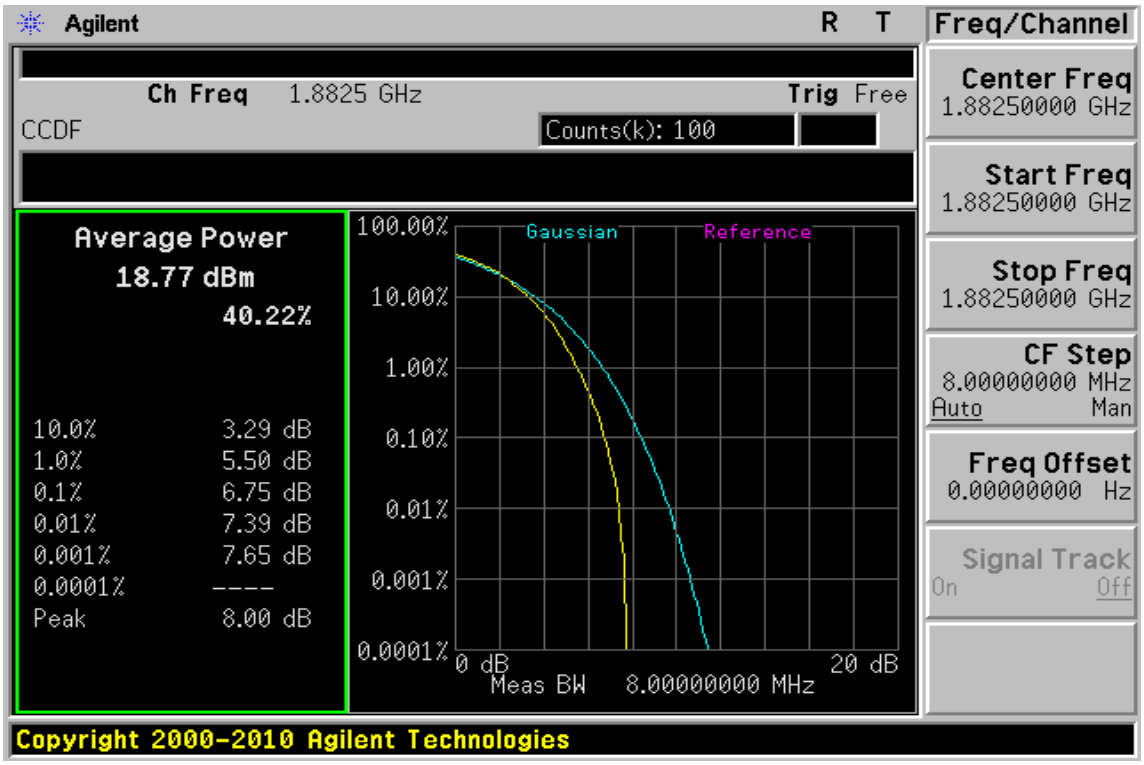
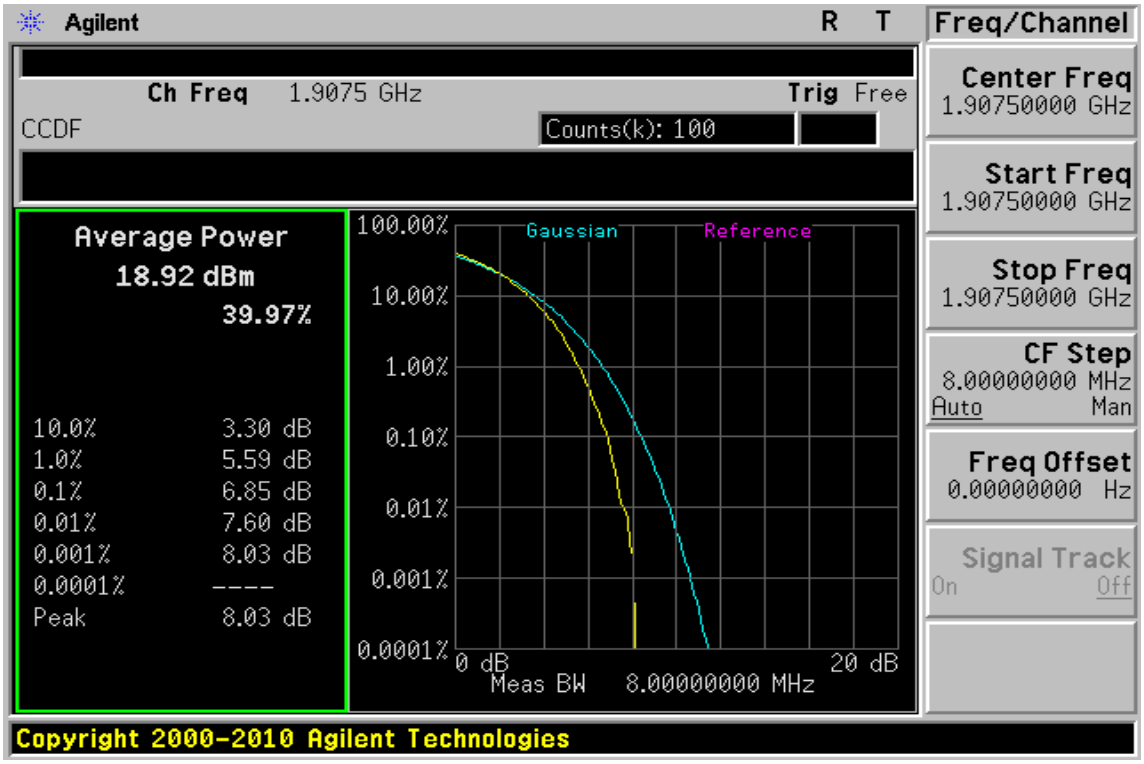
15MHz BW LTE-Band 25 16QAM Channel Mid



15MHz BW LTE-Band 25 16QAM Channel High



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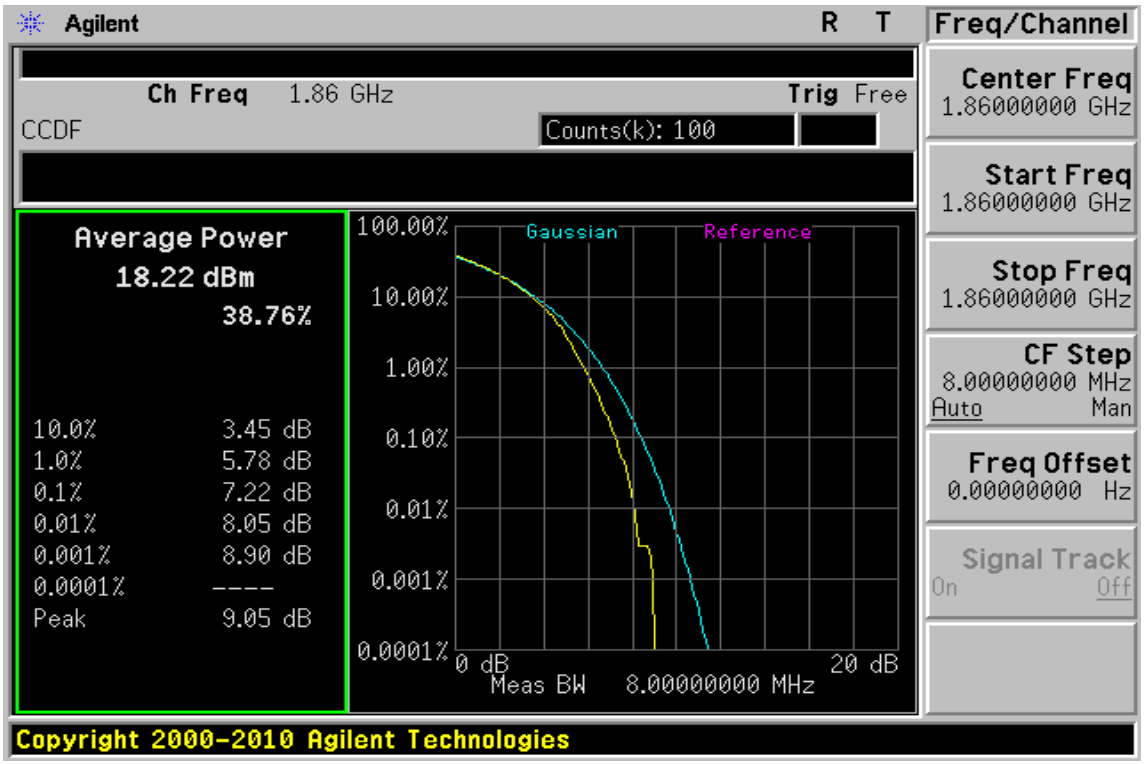
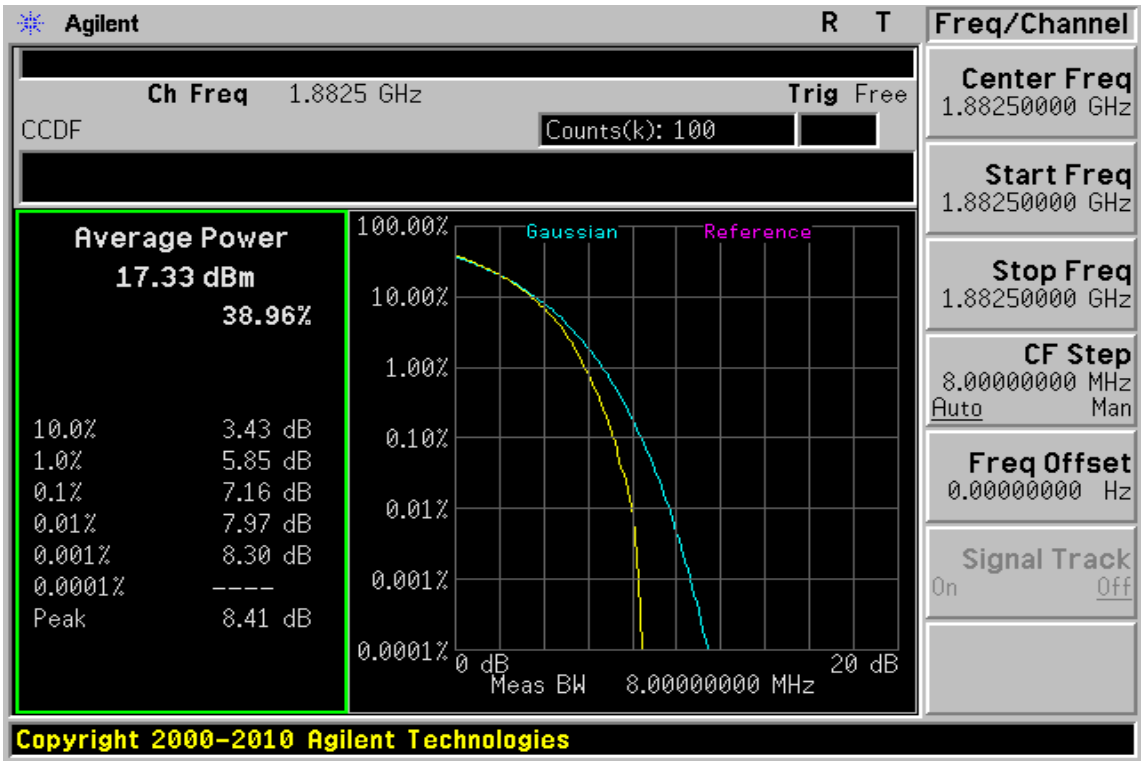
20MHz BW LTE-Band 25 16QAM Channel Low



20MHz BW LTE-Band 25 16QAM Channel Mid



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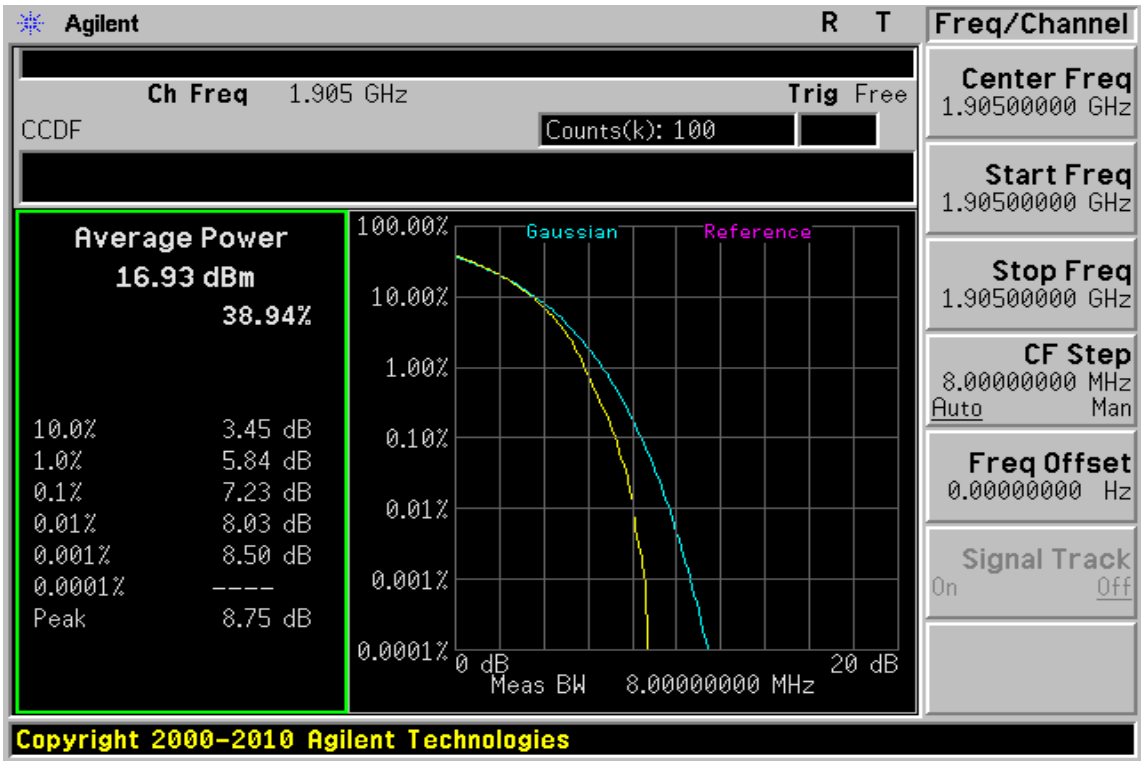
20MHz BW LTE-Band 25 16QAM Channel High



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13. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

13.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. And Part 90 subpart S For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

13.2. Special Accessories

Not available for this EUT intended for grant.

13.3. Equipment Modifications

Not available for this EUT intended for grant.

13.4. Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m^2)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	$280/f$	$2.19/f$	-	6
10-30	28	$2.19/f$	-	6
30-300	28	0.073	2^*	6
300-1500	$1.585\ f^{0.5}$	$0.0042\ f^{0.5}$	$f/150$	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158\ f^{0.5}$	$4.21 \times 10^{-4}\ f^{0.5}$	$6.67 \times 10^{-5}\ f$	$616000/f^{1.2}$

Note: f is frequency in MHz.

* Power density limit is applicable at frequencies greater than 100 MHz.

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13.5. Maximum Permissible Exposure (MPE) Evaluation

The evaluation and calculation as deduces below presents only worst-ca se that produces highest value of the result:

Operation in cellular band (824 – 849 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
GPRS 850	824.2	128	V	25.52	3.45	-2.94	**26.04**	38.45
			H	16.89	3.45	-2.94	17.41	38.45
	836.6	190	V	25.28	3.46	-2.97	25.76	38.45
			H	13.59	3.46	-2.97	14.07	38.45
	848.8	251	V	25.09	3.47	-3.01	25.55	38.45
			H	14.71	3.47	-3.01	15.17	38.45

ERP = 26.04 dBm =401.791 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 401.791*0.25/($4*\pi*20^2$) = 0.0200 mW/cm^2

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 824.2/1500 = 0.55 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz) (Antenna Model No.:CVL-WLF-2V-BLK-12)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
GPRS 1900	1850.2	512	V	24.18	4.84	-4.49	24.54	33.01
			H	30.15	4.84	-4.49	30.51	33.01
	1880.0	661	V	24.90	4.79	-4.53	25.16	33.01
			H	31.00	4.79	-4.53	31.27	33.01
	1909.8	810	V	25.47	4.74	-4.57	25.65	33.01
			H	31.77	4.74	-4.57	**31.95**	33.01

EIRP = 31.95 dBm = 1566.751 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 1566.751*0.25/($4*\pi*20^2$) =0.0779 mW/cm^2

where Duty Cycle is 0. 25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band II (1850 – 1910 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA B2	1852.4	9262	V	27.11	4.84	-4.49	**27.46**	33.01
			H	19.11	4.84	-4.49	19.46	33.01
	1880.0	9400	V	25.43	4.79	-4.53	25.70	33.01
			H	16.85	4.79	-4.53	17.12	33.01
	1907.6	9538	V	25.31	4.75	-4.56	25.50	33.01
			H	16.74	4.75	-4.56	16.92	33.01

EIRP = 27.46 dBm = 557.1857 mW

Power Density = EIRP*Duty Cycle/$(4\pi R^2)$

= 557.1857*1/$(4*\pi*20^2)$ = 0.1108 mW/cm^2

where Duty Cycle is 1 for HSUPA band II mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band IV (1712.4 – 1752.6 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA B4	1712.4	1312	V	26.42	5.08	-4.29	27.21	33.01
			H	23.12	5.09	-4.29	23.92	33.01
	1732.6	1413	V	24.96	5.05	-4.31	25.70	33.01
			H	22.40	5.05	-4.31	23.14	33.01
	1752.6	1513	V	28.47	5.01	-4.37	**29.12**	33.01
			H	23.65	5.01	-4.37	24.29	33.01

EIRP = 29.12 dBm = 816.5824 mW

Power Density = EIRP*Duty Cycle/$(4\pi R^2)$

= 816.5824*1/$(4*\pi*20^2)$ = 0.1625 mW/cm^2

where Duty Cycle is 1 for HSUPA band IV mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band V (826 – 849 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
HSDPA B5	826.4	4132	V	21.46	3.46	-2.94	**21.97**	38.45
			H	10.85	3.46	-2.94	11.36	38.45
	836.6	4183	V	19.99	3.46	-2.97	20.48	38.45
			H	10.17	3.46	-2.97	10.66	38.45
	846.6	4233	V	20.66	3.47	-3.00	21.12	38.45
			H	8.65	3.47	-3.00	9.11	38.45

EIRP = 21.97 dBm = 157.3983 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 157.3983*1/($4*\pi*20^2$) = 0.0313 mW/cm^2

where Duty Cycle is 1 for HSDPA band V mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 826.4/1500 = 0.55 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in cellular band (824 – 849 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
CDMA BC0	824.7	1013	V	21.26	3.45	-2.94	**21.78**	38.45
			H	10.29	3.45	-2.94	10.80	38.45
	836.52	384	V	20.83	3.46	-2.98	21.32	38.45
			H	8.15	3.46	-2.98	8.63	38.45
	848.31	777	V	19.03	3.47	-3.01	19.50	38.45
			H	8.85	3.47	-3.01	9.31	38.45

ERP = 21.78dBm = 150.6607 mW

Power Density = ERP*Duty Cycle/$(4\pi R^2)$

= 150.6607*1/$(4*\pi*20^2)$ = 0.0300 mW/cm^2

where Duty Cycle is 1 for CDMA BC0 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 824.7/1500 = 0.55mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
CDMA BC1	1851.25	25	V	25.21	4.84	-4.49	**25.57**	33.00
			H	16.73	4.84	-4.49	17.09	33.00
	1880.0	600	V	23.90	4.79	-4.53	24.17	33.00
			H	16.29	4.79	-4.53	16.56	33.00
	1908.75	1175	V	24.56	4.75	-4.56	24.74	33.00
			H	19.11	4.75	-4.56	19.30	33.00

EIRP = 25.57 dBm = 360.5786 mW

Power Density = EIRP*Duty Cycle/$(4\pi R^2)$

= 360.5786*1/$(4*\pi*20^2)$ = 0.0717 mW/cm^2

where Duty Cycle is 1 for CDMA2000 BC1operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in cellular band (817.9 – 823.1 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
CDMA BC10	817.9	476	V	20.84	3.45	-2.92	**21.38**	50.00
			H	10.05	3.45	-2.92	10.59	50.00
	820.5	580	V	20.84	3.45	-2.93	21.37	50.00
			H	9.29	3.45	-2.92	9.82	50.00
	823.1	684	V	20.84	3.45	-2.93	21.36	50.00
			H	9.08	3.45	-2.93	9.60	50.00

ERP = 21.38 dBm = 137.4042 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 137.4042*1/($4*\pi*20^2$) = 0.0273 mW/cm^2

where Duty Cycle is 1 for CDMA2000 BC10 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 817.9/1500 = 0.55mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (1850.7 – 1909.3 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	30.34	4.84	-4.49	**30.70**	33.01
			H	20.72	4.84	-4.49	21.08	33.01
	1880.0	18900	V	27.64	4.80	-4.52	27.91	33.01
			H	19.83	4.80	-4.52	20.10	33.01
	1909.3	19193	V	26.50	4.75	-4.56	26.68	33.01
			H	20.59	4.75	-4.56	20.77	33.01

EIRP = 28.53 dBm = 1174.898 mW

Power Density = EIRP*Duty Cycle/$(4\pi R^2)$

= 1174.898*1/$(4*\pi*20^2)$ =0.2337 mW/cm^2

where Duty Cycle is 1 for LTE band 2 1.4MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (1715.5 – 1747.5 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	25.14	5.06	-4.30	25.90	30.00
			H	18.35	5.06	-4.30	19.12	30.00
	1732.5	20175	V	29.03	5.04	-4.33	**29.74**	30.00
			H	18.09	5.04	-4.33	18.80	30.00
	1747.5	20325	V	26.65	5.01	-4.37	27.29	30.00
			H	20.39	5.01	-4.37	21.03	30.00

EIRP = 29.47 dBm = 941.8896 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 941.8896*1/($4*\pi*20^2$) =0.1874mW/cm^2

where Duty Cycle is 1 for LTE band 4 15MHz /16QAM/RB 1 74 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (824.7 – 848.3 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	23.52	3.45	-2.94	**24.04**	38.45
			H	13.72	3.45	-2.94	14.23	38.45
	836.5	20525	V	22.01	3.46	-2.97	22.50	38.45
			H	14.39	3.46	-2.97	14.88	38.45
	848.3	20643	V	21.85	3.47	-3.01	22.31	38.45
			H	14.32	3.47	-3.00	14.78	38.45

ERP = 24.04 dBm = 253.5129 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 253.5129*1/($4*\pi*20^2$) =0.0504mW/cm^2

where Duty Cycle is 1 for LTE band 5 1.4MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (782 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	23.33	3.37	-2.77	**23.93**	34.77
			H	13.39	3.37	-2.77	13.99	34.77

ERP = 23.93 dBm = 247.1724 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 247.1724*1/($4*\pi*20^2$) =0.0492mW/cm^2

where Duty Cycle is 1 for LTE band 13 10MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 824.7/1500 = 0.55mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (706.5 – 713.5 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	21.55	3.37	-2.60	**22.32**	34.77
			H	12.71	3.37	-2.60	13.48	34.77
	710.0	23790	V	19.66	3.37	-2.60	20.43	34.77
			H	11.23	3.37	-2.60	11.99	34.77
	713.5	23825	V	19.87	3.36	-2.60	20.63	34.77
			H	11.46	3.36	-2.60	12.22	34.77

ERP = 22.32 dBm = 170.6082 mW

Power Density = ERP*Duty Cycle/$(4\pi R^2)$

= 170.6082*1/$(4*\pi*20^2)$ =0.03394mW/cm^2

where Duty Cycle is 1 for LTE band 17 5MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 824.7/1500 = 0.55mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (1850.7 – 1914.3 MHz) (Antenna Model No.: TRA6927M3)

EUT			Measurement					
Operation Band	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
	MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	30.03	4.84	-4.49	**30.38**	33.00
			H	21.44	4.84	-4.49	21.80	33.00
	1882.5	26365	V	27.44	4.79	-4.53	27.70	33.00
			H	20.45	4.79	-4.53	20.71	33.00
	1914.3	26683	V	25.19	4.74	-4.57	25.35	33.00
			H	17.69	4.74	-4.57	17.85	33.00

EIRP = 30.38 dBm = 1091.44 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 1091.44*1/($4*\pi*20^2$) =0.2171mW/cm^2

where Duty Cycle is 1 for LTE band 25 1.4MHz /16QAM/RB 1 5 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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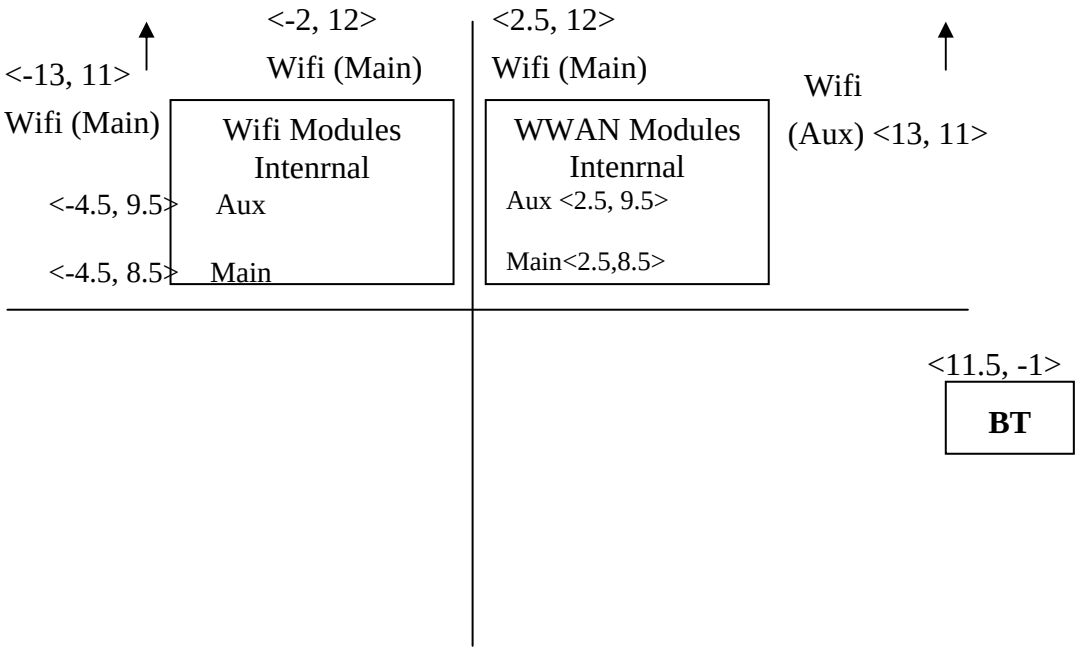
Collocated MPE analysis:

As per KDB447498 D01, if the radio application is composed of the multiple transmitters confining in the host plateform, and placing nearby, the simultaneous transmission due to impact of accumulation of individual MPE shall be evaluated if or not given application could conditionally qualify for MPE test exclusion.

Location of the transmitting antennas where they distribute:



Scenario of operation when simultaneous transmission occurs:

Scenario 1:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 700)
Scenario 2:
External Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 700)

Scenario 3:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 700)

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Scenario 4:
External Antenna:
Wifi n_5G (MIMO) + Bluetooth LE + 2/3/4G (frequency band 700)

Scenario 5:
Internal Antenna:
Wifi b or g + Bluetooth LE+ 2/3/4G (frequency band 700)

Scenario 6:
Internal Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 700)

Scenario 7:
Internal Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 700)

Scenario 8:
Internal Antenna:
Wifi n 5G_MIMO + Bluetooth LE + 2/3/4G (frequency band 700)

Scenario 9:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 850)

Scenario 10:
External Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 850)

Scenario 11:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 850)

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Scenario 12:
External Antenna:
Wifi n_5G (MIMO) + Bluetooth LE+ 2/3/4G (frequency band 850)

Scenario 13:
Internal Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 850)

Scenario 14:
Internal Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 850)

Scenario 15:
Internal Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 850)

Scenario 16:
Internal Antenna:
Wifi n 5G_MIMO + Bluetooth LE + 2/3/4G (frequency band 850)

Scenario 17:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1700)

Scenario 18:
External Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 1700)

Scenario 19:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1700)

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Scenario 20:
External Antenna:
Wifi n_5G (MIMO) + Bluetooth LE+ 2/3/4G (frequency band 1700)

Scenario 21:
Internal Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1700)

Scenario 22:
Internal Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 1700)

Scenario 23:
Internal Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1700)

Scenario 24:
Internal Antenna:
Wifi n 5G_MIMO + Bluetooth LE + 2/3/4G (frequency band 1700)

Scenario 25:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1900)

Scenario 26:
External Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 1900)

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Scenario 27:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1900)

Scenario 28:
External Antenna:
Wifi n_5G (MIMO) + Bluetooth LE+ 2/3/4G (frequency band 1900)

Scenario 29:
Internal Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1900)

Scenario 30:
Internal Antenna:
Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 1900)

Scenario 31:
Internal Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1900)

Scenario 32:
Internal Antenna:
Wifi n 5G_MIMO + Bluetooth LE + 2/3/4G (frequency band 1900)

Exclusion of test condition:
Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0.

∑MPE ratio1 + MPE ratio2+MPE ration <=1.0
The spreadsheet as FCC deduces, and releases is employed to conduct the measurement:

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Scenario 1:

External Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	700
MPE Limit	mW/cm^2		1.00	1.00	0.47
Max % MPE	%	25.7	3.2	0.0	22.8
Power	(W)	0.347	0.098	0.001	0.239
Antenna Gain	dBi		2.10	0.5	3.50
EIRP	(W)	0.71	0.159	0.001	0.535
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 25.7/100 = 0.26 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 2:

External Antenna:

Wifi n_MIMO + Bluetooth LE

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	700
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.47
Max % MPE	%	26.2	3.2	0.0	0.7	22.8
Power	(W)	0.370	0.098	0.001	0.023	0.239
Antenna Gain	dBi		2.10	0.5	2.10	3.50
EIRP	(W)	0.74	0.159	0.001	0.037	0.535
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 26.2/100 = 0.262 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 3:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	700
MPE Limit	mW/cm^2		1.00	1.00	0.47
Max % MPE	%	24.9	2.1	0.0	22.8
Power	(W)	0.283	0.034	0.001	0.239
Antenna Gain	dBi		5.00	0.5	3.50
EIRP	(W)	0.65	0.108	0.001	0.535
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 24.9/100 = 0.249 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 4:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE + 2/3/4G (frequency band 700)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	700
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.47
Max % MPE	%	26.5	2.1	0.0	2.5	22.8
Power	(W)	0.314	0.034	0.001	0.040	0.239
Antenna Gain	dBi		5.00	0.5	5.00	3.50
EIRP	(W)	0.78	0.108	0.001	0.126	0.535
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 26.5/100 = 0.265 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 5:

Internal Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	700
MPE Limit	mW/cm^2		1.00	1.00	0.47
Max % MPE	%	26.8	5.2	0.0	22.8
Power	(W)	0.338	0.098	0.001	0.239
Antenna Gain	dBi		4.25	0.5	3.50
EIRP	(W)	0.80	0.261	0.011	0.535
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 26.8/100 = 0.268 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 6:

Internal Antenna:

Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 700)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	700
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.47
Max % MPE	%	27.7	5.2	0.0	1.2	22.8
Power	(W)	0.361	0.098	0.001	0.023	0.239
Antenna Gain	dBi		4.25	0.50	4.25	3.50
EIRP	(W)	0.86	0.261	0.001	0.061	0.535
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 27.7/100 = 0.277 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 7:

Internal Antenna:

Wifi a + Bluetooth LE+ 2/3/4G (frequency band 700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	700
MPE Limit	mW/cm^2		1.00	1.00	0.47
Max % MPE	%	24.5	2.4	0.0	22.8
Power	(W)	0.274	0.034	0.001	0.239
Antenna Gain	dBi		5.00	0.50	3.50
EIRP	(W)	0.64	0.121	0.001	0.535
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 24.5 /100 = 0.245 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 8:

Internal Antenna:

Wifi n_5G_MIMO + Bluetooth LE

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	700
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.47
Max % MPE	%	26.5	2.1	0.0	2.8	22.8
Power	(W)	0.314	0.034	0.001	0.040	0.239
Antenna Gain	dBi		5.00	0.50	5.50	3.50
EIRP	(W)	0.79	0.108	0.001	0.142	0.535
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 26.5/100 = 0.265 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 9:

External Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	850
MPE Limit	mW/cm^2		1.00	1.00	0.57
Max % MPE	%	30.8	3.2	0.0	28.0
Power	(W)	0.324	0.098	0.001	0.225
Antenna Gain	dBi		2.10	0.50	5.50
EIRP	(W)	0.96	0.048	0.001	0.798
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 30.8/100 = 0.308 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 10:

External Antenna:

Wifi n_MIMO + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	850
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.57
Max % MPE	%	31.4	3.2	0.0	0.7	28.0
Power	(W)	0.347	0.098	0.001	0.023	0.225
Antenna Gain	dBi		2.10	0.50	2.10	5.50
EIRP	(W)	1.00	0.159	0.001	0.037	0.798
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 31.4/100 = 0.314 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 11:
External Antenna:
Wifi a + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	850
MPE Limit	mW/cm^2		1.00	1.00	0.57
Max % MPE	%	29.9	2.1	0.0	28.0
Power	(W)	0.260	0.034	0.001	0.225
Antenna Gain	dBi		5.00	0.50	5.50
EIRP	(W)	0.91	0.108	0.001	0.798
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 29.9/100 = 0.299 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 12:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	850
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.57
Max % MPE	%	31.8	2.1	0.0	2.5	28.0
Power	(W)	0.300	0.034	0.001	0.040	0.225
Antenna Gain	dBi		5.00	0.50	5.00	5.50
EIRP	(W)	1.03	0.108	0.001	0.142	0.798
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 31.8/100 = 0.318 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 13:

Internal Antenna:

Wifi b or g + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	850
MPE Limit	mW/cm^2		1.00	1.00	0.57
Max % MPE	%	32.1	5.2	0.0	28.0
Power	(W)	0.324	0.098	0.001	0.225
Antenna Gain	dBi		4.25	0.50	5.50
EIRP	(W)	1.06	0.261	0.001	0.798
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 32.1/100 = 0.321 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 14:

Internal Antenna:

Wifi n_MIMO + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	850
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.57
Max % MPE	%	32.9	5.2	0.0	1.2	28.0
Power	(W)	0.347	0.098	0.001	0.023	0.225
Antenna Gain	dBi		4.25	0.50	4.25	5.50
EIRP	(W)	1.12	0.261	0.001	0.061	0.798
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 32.9/100 = 0.329 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 15:

Internal Antenna:

Wifi a + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	850
MPE Limit	mW/cm^2		1.00	1.00	0.57
Max % MPE	%	29.9	2.4	0.0	28.0
Power	(W)	0.260	0.034	0.001	0.225
Antenna Gain	dBi		5.50	0.50	5.50
EIRP	(W)	0.92	0.121	0.001	0.798
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 29.9 /100 = 0.299 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 16:

Internal Antenna:

Wifi n_5G_MIMO + Bluetooth LE+ 2/3/4G (frequency band 850)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	850
MPE Limit	mW/cm^2		1.00	1.00	1.00	0.57
Max % MPE	%	31.9	2.4	0.0	2.8	28.0
Power	(W)	0.300	0.034	0.001	0.040	0.225
Antenna Gain	dBi		5.50	0.50	5.50	5.50
EIRP	(W)	1.06	0.121	0.001	0.142	0.798
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 31.9/100 = 0.319 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 17:

External Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	20.0	3.2	0.0	17.1
Power	(W)	0.342	0.098	0.001	0.243
Antenna Gain	dBi		2.10	0.50	5.50
EIRP	(W)	1.02	0.159	0.001	0.862
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 20/100 = 0.20 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 18:

External Antenna:

Wifi n_MIMO + Bluetooth LE+ 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	20.5	3.2	0.0	0.7	17.1
Power	(W)	0.365	0.098	0.001	0.023	0.243
Antenna Gain	dBi		2.10	0.50	2.10	5.50
EIRP	(W)	1.06	0.159	0.001	0.037	0.862
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 20.5/100 = 0.205 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 19:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	19.1	2.1	0.0	17.1
Power	(W)	0.278	0.034	0.001	0.243
Antenna Gain	dBi		5.00	0.50	5.50
EIRP	(W)	0.97	0.108	0.001	0.862
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 19.1/100 = 0.191 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 20:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE + 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	20.9	2.1	0.0	2.5	17.1
Power	(W)	0.318	0.034	0.001	0.040	0.243
Antenna Gain	dBi		5.00	0.50	5.00	5.50
EIRP	(W)	1.10	0.108	0.001	0.126	0.862
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 20.9/100 = 0.209 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 21:

Internal Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	21.2	5.2	0.0	17.1
Power	(W)	0.342	0.098	0.001	0.243
Antenna Gain	dBi		4.25	0.50	5.50
EIRP	(W)	1.12	0.261	0.001	0.862
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 21.2/100 = 0.212 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 22:

Internal Antenna:

Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	22.1	5.2	0.0	1.2	17.1
Power	(W)	0.365	0.098	0.001	0.023	0.243
Antenna Gain	dBi		4.25	0.50	4.25	5.50
EIRP	(W)	1.19	0.261	0.001	0.061	0.862
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 22.1/100 = 0.221 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 23:

Internal Antenna:

Wifi a + Bluetooth LE+ 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	19.0	2.4	0.0	17.1
Power	(W)	0.278	0.034	0.001	0.243
Antenna Gain	dBi		5.50	0.50	5.50
EIRP	(W)	0.98	0.121	0.001	0.862
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 19.0 /100 = 0.190 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 24:

Internal Antenna:

Wifi n_5G_MIMO + Bluetooth LE + 2/3/4G (frequency band 1700)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	1700
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	21.1	2.4	0.0	2.8	17.1
Power	(W)	0.318	0.034	0.001	0.040	0.243
Antenna Gain	dBi		5.50	0.50	5.50	5.50
EIRP	(W)	1.13	0.121	0.001	0.142	0.862
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 21.1/100 = 0.211 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 25:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	19.6	3.2	0.0	16.7
Power	(W)	0.336	0.098	0.001	0.237
Antenna Gain	dBi		2.10	0.50	5.50
EIRP	(W)	1.00	0.159	0.001	0.841
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 19.6/100 = 0.196 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 26:
External Antenna:
Wifi n_MIMO + Bluetooth LE+ 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	20.1	3.2	0.0	0.7	16.7
Power	(W)	0.359	0.098	0.001	0.023	0.237
Antenna Gain	dBi		2.10	0.50	2.10	5.50
EIRP	(W)	1.04	0.159	0.001	0.037	0.841
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 20.1/100 = 0.201 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 27:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	18.6	2.1	0.0	16.7
Power	(W)	0.272	0.034	0.001	0.237
Antenna Gain	dBi		5.00	0.50	5.50
EIRP	(W)	0.95	0.108	0.001	0.841
X	(cm)		-13.0	11.5	2.5
Y	(cm)		11.0	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 18.6/100 = 0.186 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 28:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE + 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	20.5	2.1	0.0	2.5	16.7
Power	(W)	0.312	0.034	0.001	0.040	0.237
Antenna Gain	dBi		5.00	0.50	5.00	5.50
EIRP	(W)	1.08	0.108	0.001	0.126	0.841
X	(cm)		-13.0	11.5	13.0	2.5
Y	(cm)		11.0	-1.0	11.0	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 20.5/100 = 0.205 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 29:

Internal Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2462	2402	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	20.8	5.2	0.0	16.7
Power	(W)	0.336	0.098	0.001	0.237
Antenna Gain	dBi		4.25	0.50	5.50
EIRP	(W)	1.10	0.261	0.001	0.841
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 20.8/100 = 0.208 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 30:

Internal Antenna:

Wifi n_MIMO + Bluetooth LE + 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		2462	2402	2462	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	21.6	5.2	0.0	1.2	16.7
Power	(W)	0.359	0.098	0.001	0.023	0.237
Antenna Gain	dBi		4.25	0.50	4.25	5.50
EIRP	(W)	1.16	0.261	0.001	0.061	0.841
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 21.6/100 = 0.216 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 31:
Internal Antenna:
Wifi a + Bluetooth LE+ 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5500	2402	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00
Max % MPE	%	18.6	2.4	0.0	16.7
Power	(W)	0.272	0.034	0.001	0.237
Antenna Gain	dBi		5.50	0.50	5.50
EIRP	(W)	0.96	0.121	0.001	0.841
X	(cm)		-4.5	11.5	2.5
Y	(cm)		9.5	-1.0	9.5
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120
θ_2			60	60	60
θ_1		actual	-120	-120	-120
θ_2			60	60	60

MPE = 18.6 /100 = 0.186 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 32:
Internal Antenna:
Wifi n_5G_MIMO + Bluetooth LE + 2/3/4G (frequency band 1900)

Antenna No.		Total	1	2	3	4
Tx Status			On	On	On	On
Frequency	MHz		5500	2402	5500	1900
MPE Limit	mW/cm^2		1.00	1.00	1.00	1.00
Max % MPE	%	20.6	2.4	0.0	2.8	16.7
Power	(W)	0.312	0.034	0.001	0.040	0.237
Antenna Gain	dBi		5.50	0.50	5.50	5.50
EIRP	(W)	1.10	0.121	0.001	0.142	0.841
X	(cm)		-4.5	11.5	-4.5	2.5
Y	(cm)		9.5	-1.0	8.5	9.5
Sector			FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120
θ_2			60	60	60	60
θ_1		actual	-120	-120	-120	-120
θ_2			60	60	60	60

MPE = 20.6/100 = 0.206 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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