



REPORT No.: SZ15050187W01

FCC RF TEST REPORT

APPLICANT : ZTE Corporation

PRODUCT NAME : Mobile Broadband Internet Device

MODEL NAME : ZTE K85

TRADE NAME : ZTE

BRAND NAME : ZTE

FCC ID : SRQ-K85

STANDARD(S) : 47 CFR Part 22 Subpart H
47 CFR Part 24 Subpart E

ISSUE DATE : 2015-7-27



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2015-7-27	First edition



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TEST REPORT DECLARATION

Applicant	ZTE Corporation
Applicant Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Manufacturer	ZTE Corporation
Manufacturer Address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Product Name	Mobile Broadband Internet Device
Model Name	ZTE K85
Brand Name	ZTE
HW Version	K85MB_D
SW Version	K85_Bell_V1.05
Test Standards	47 CFR Part 22 Subpart H 47 CFR Part 24 Subpart E
Test Date	2015-6-2 to 2015-6-15
Test Result	PASS

Tested by : Zou Jian
Zou Jian(Test Engineer)

Reviewed by : Qiu Xiaojun
Qiu Xiaojun(RF Manager)

Approved by : Zeng Dexin
Zeng Dexin(Chief Engineer)



1. GENERAL INFORMATION

1.1 EUT Description

EUT Type: Mobile Broadband Internet Device
Serial No.: (n.a, marked #1 by test site)
Hardware Version: K85MB_D
Software Version: K85_Bell_V1.05
Applicant: ZTE Corporation
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan
District, Shenzhen, Guangdong, P.R.China
Manufacturer: ZTE Corporation
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan
District, Shenzhen, Guangdong, P.R.China
Frequency Range: WCDMA 850MHz
Tx: 826.4 - 846.6MHz (at intervals of 200kHz);
Rx: 871.4 - 891.6MHz (at intervals of 200kHz)
WCDMA 1900MHz
Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz);
Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)
Modulation Type.....: WCDMA Mode with QPSK Modulation
HSDPA Mode with QPSK Modulation
HSUPA Mode with QPSK Modulation
HSPA+ Mode with QPSK Modulation
Antenna Type.....: PIFA Antenna
Emission Designators: WCDMA 850:4M16F9W ,WCDMA1900:4M18F9W

Note 1: The transmitter (Tx) frequency arrangement of the WCDMA 850MHz band used by the EUT can be represented with the formula $F(n)=826.4+0.2*(n-4132)$, $4132 \leq n \leq 4233$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4175(835MHz) and 4233 (846.6MHz).

Note 2: The transmitter (Tx) frequency arrangement of the WCDMA 1900MHz band used by the EUT can be represented with the formula $F(n)=1852.4+0.2*(n-9262)$, $9262 \leq n \leq 9538$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part 24 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.1046	Conducted RF Output Power	PASS
2.	24.232(d)	Peak to average radio	PASS
2	2.1049,22.917, 24.238,	99% Occupied Bandwidth	PASS
3	2.1055,22.355, 24.235	Frequency Stability	PASS
4	2.1051,2.1057, 22.917, 24.238,	Conducted Out of Band Emissions	PASS
5	2.1051, 2.1057, 22.917, 24.238	Band Edge	PASS
6	22.913, 24.232	Transmitter Radiated Power (EIPR/ERP)	PASS
7	2.1053, 2.1057, 22.917, 24.238	Radiated Out of Band Emissions	PASS

NOTE: Measurement method according to TIA/EIA 603.D-2010

1.3 Facilities and Accreditations

1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, No.8 LongChang Road,Block 67, BaoAn District, ShenZhen, Guangdong Province,P. R. China 518101. The test site is constructed in conformance with the requirements of ANSI C63.7-2009, ANSI C63.4-2009 and CISPR Publication 22:2010; the FCC registration number is 695796.



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1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR PART 2, PART 22H & 24E REQUIREMENTS

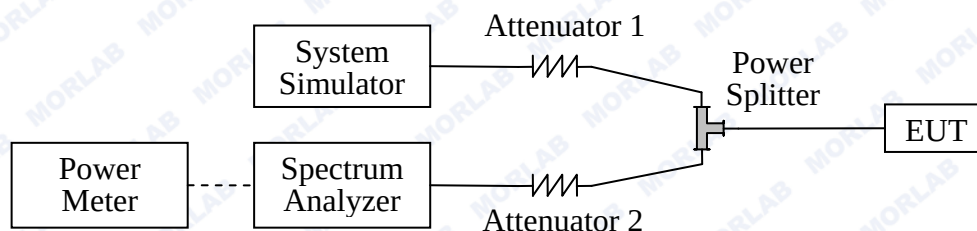
2.1 Conducted RF Output Power

2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2 Test Description

Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

The Power Meter was just used for the Conducted RF Output Power test of WCDMA Model.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2015.02.26	2016.02.25
Power Meter	Agilent	E4418B	GB43318055	2015.02.26	2016.02.25
Power Sensor	Agilent	8482A	MY41091706	2015.02.26	2016.02.25
Power Splitter	Weinschel	1506A	NW521	2015.02.26	2016.02.25
Attenuator 1	Resnet	20dB	(n.a.)	2015.02.26	2016.02.25
Attenuator 2	Resnet	3dB	(n.a.)	2015.02.26	2016.02.25



2.1.3 Test Results

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

WCDMA Model Test Verdict:

Item	band	WCDMA 850			WCDMA 1900		
	ARFCN	4132	4175	4233	9262	9400	9538
	subtest	dBm			dBm		
5.2(WCDMA)	non	24.29	24.21	24.05	24.00	23.72	23.47
HSDPA	1	23.50	23.31	23.71	23.39	22.98	22.31
	2	23.53	23.26	23.66	23.42	22.93	22.28
	3	23.04	22.86	23.11	22.91	22.44	21.93
	4	22.98	22.80	23.05	22.85	22.51	21.88
HSUPA	1	23.39	23.31	23.68	23.35	23.04	22.36
	2	21.41	21.35	21.72	21.43	21.11	20.45
	3	22.36	22.27	22.62	22.32	22.01	21.33
	4	21.33	21.30	21.65	21.38	21.06	20.38
	5	23.42	23.24	23.70	23.43	22.96	22.38
HSPA+	1	23.28	23.31	23.65	23.40	22.99	22.35
Note: The Conducted RF Output Power test of WCDMA /HSDPA /HSUPA /HSPA+ was tested by power meter.							



2.2 Peak to Average Ratio

2.2.1 Definition

According to FCC section 2.1049 and FCC 24.232(d) the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2 Test Description

See section 2.1.2 of this report.

2.2.3 Test Verdict

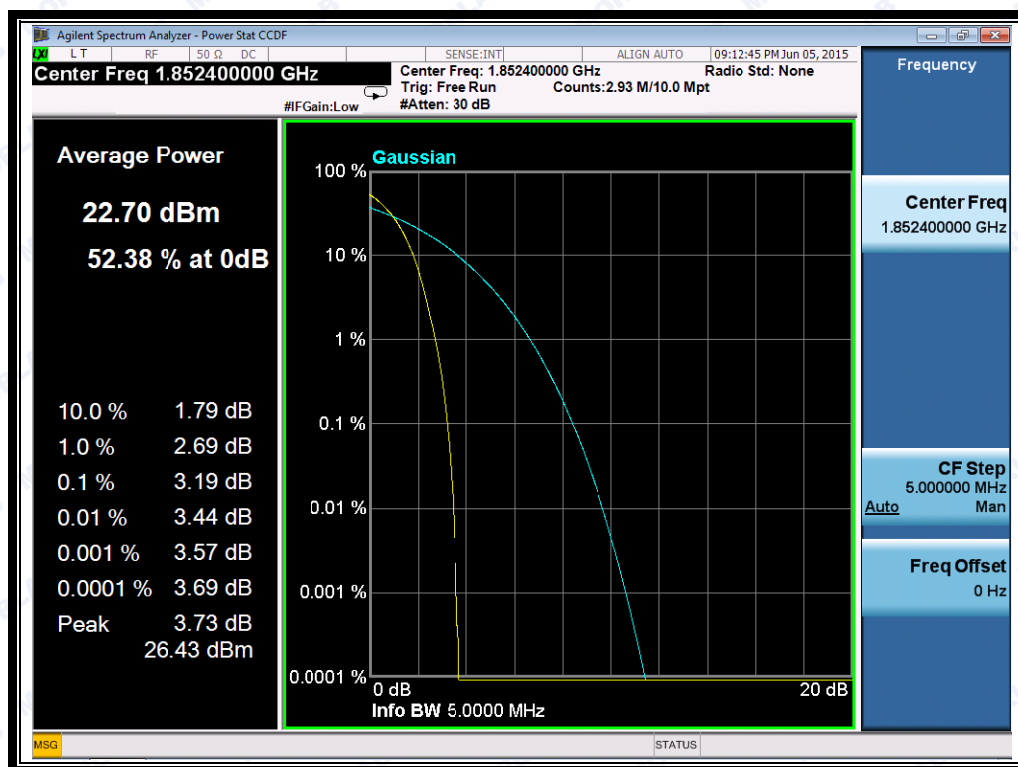
Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

Test procedures:

- Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

Test Verdict:

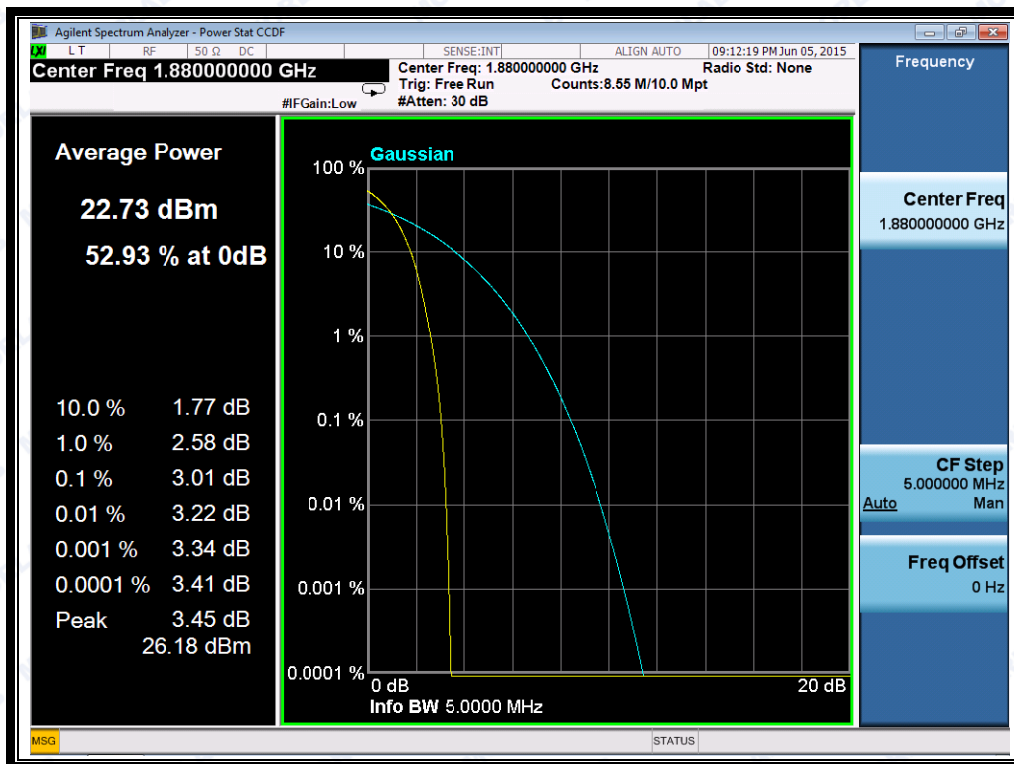
Band	Channel	Frequency (MHz)	Peak to Average ratio		Limit dB	Verdict
			dB	Refer to Plot		
WCDMA 1900MHz	9262	1852.4	3.19	Plot C1 to C3	13	PASS
	9400	1880.0	3.01			PASS
	9538	1907.6	2.82			PASS



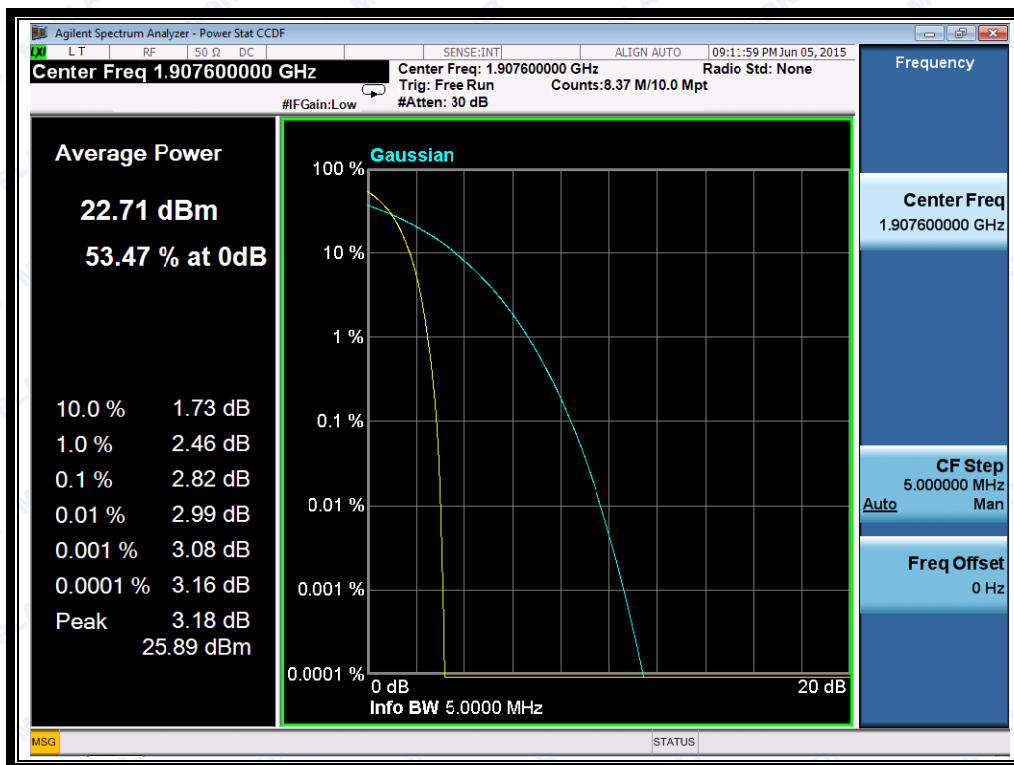
(Plot C1: WCDMA 1900MHz Channel = 9262)



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(Plot C2: WCDMA 1900MHz Channel = 9400)



(Plot C3: WCDMA 1900MHz Channel = 9538)



2.3 99% Occupied Bandwidth

2.3.1 Definition

According to FCC section 2.1049 and FCC § 22.917 & 24.238, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.3.2 Test Description

See section 2.1.2 of this report.

2.3.3 Test Verdict

Here the lowest, middle and highest channels are selected to perform testing to verify the 99% occupied bandwidth.

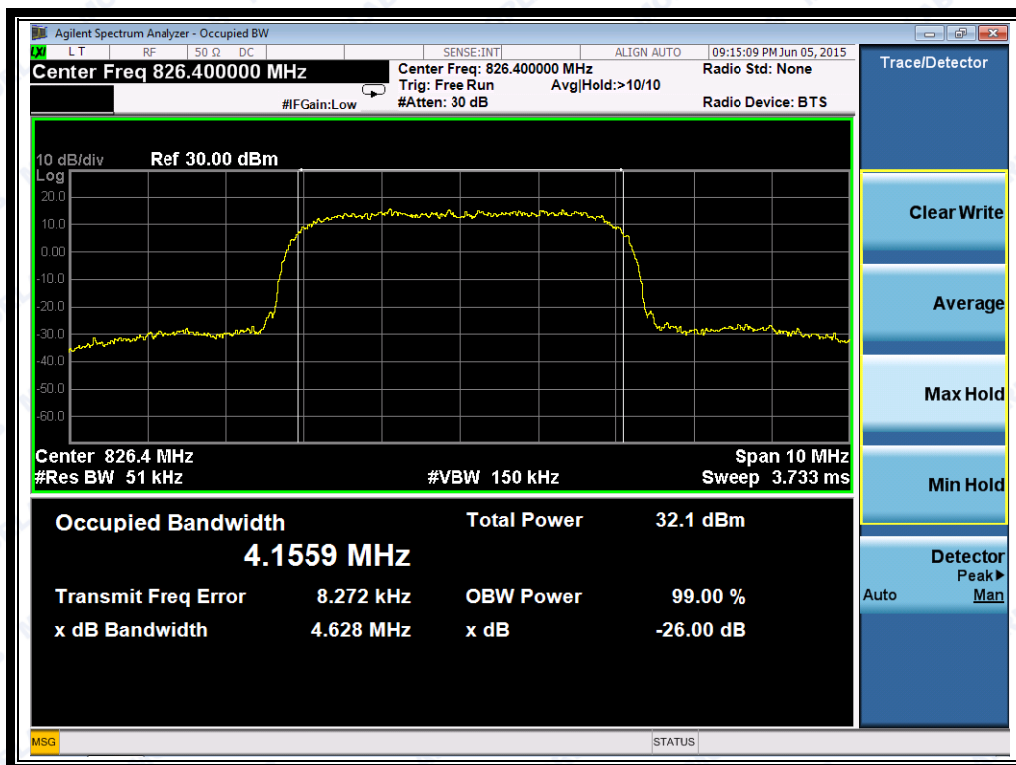
Test Verdict:

Band	Channel	Frequency (MHz)	26dB bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Refer to Plot
WCDMA 850MHz	4132	826.4	4.628	4.1559	Plot G1 to G3
	4175	835.0	4.636	4.1622	
	4233	846.6	4.635	4.1371	
WCDMA 1900MHz	9262	1852.4	4.632	4.1745	Plot H1 to H3
	9400	1880.0	4.636	4.1789	
	9538	1907.6	4.645	4.1618	
HSDPA 850MHz	4132	826.4	4.615	4.1316	Plot I1 to I3
	4175	835.0	4.630	4.1528	
	4233	846.6	4.634	4.1352	
HSDPA 1900MHz	9262	1852.4	4.632	4.1695	Plot J1 to J3
	9400	1880.0	4.637	4.1747	
	9538	1907.6	4.624	4.1567	
HSUPA 850MHz	4132	826.4	4.628	4.1431	Plot K1 to K3
	4175	835.0	4.619	4.1488	
	4233	846.6	4.623	4.1370	
HSUPA 1900MHz	9262	1852.4	4.627	4.1733	Plot L1 to L3
	9400	1880.0	4.624	4.1725	
	9538	1907.6	4.627	4.1597	
HSPA+ 850MHz	4132	826.4	4.622	4.1486	Plot M1 to M3
	4175	835.0	4.630	4.1499	
	4233	846.6	4.633	4.1492	
HSPA+ 1900MHz	9262	1852.4	4.635	4.1747	Plot N1 to N3
	9400	1880.0	4.640	4.1663	
	9538	1907.6	4.641	4.1644	

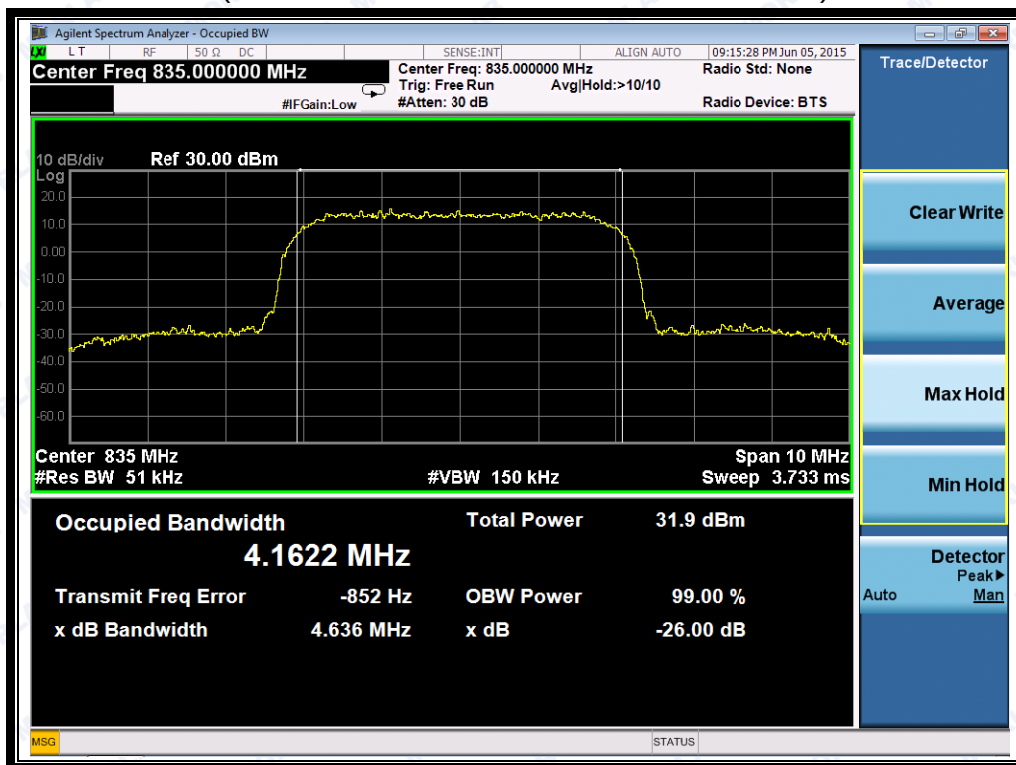


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Test Plots:



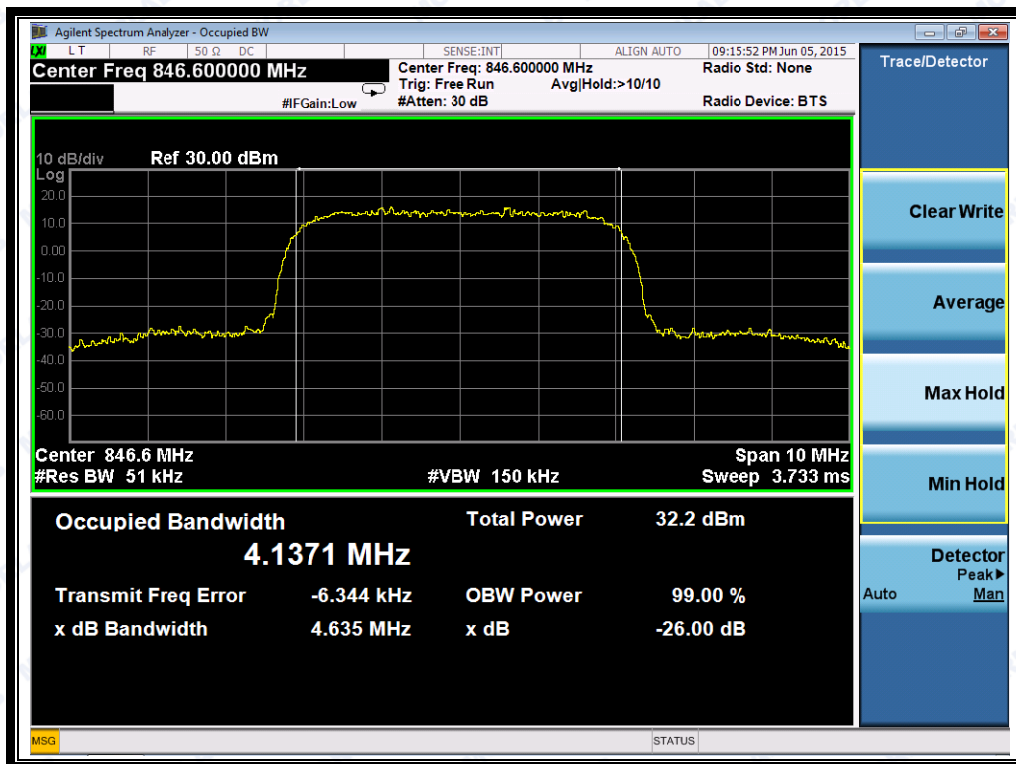
(Plot G1: WCDMA 850MHz Channel = 4132)



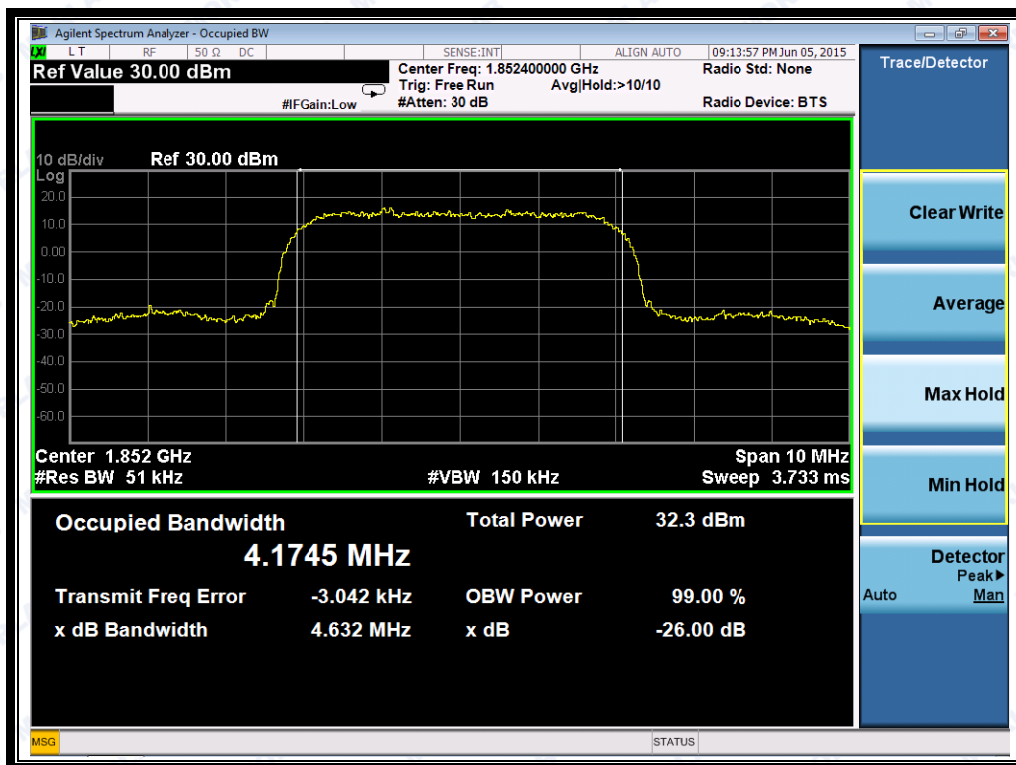
(Plot G2: WCDMA 850 MHz Channel = 4175)



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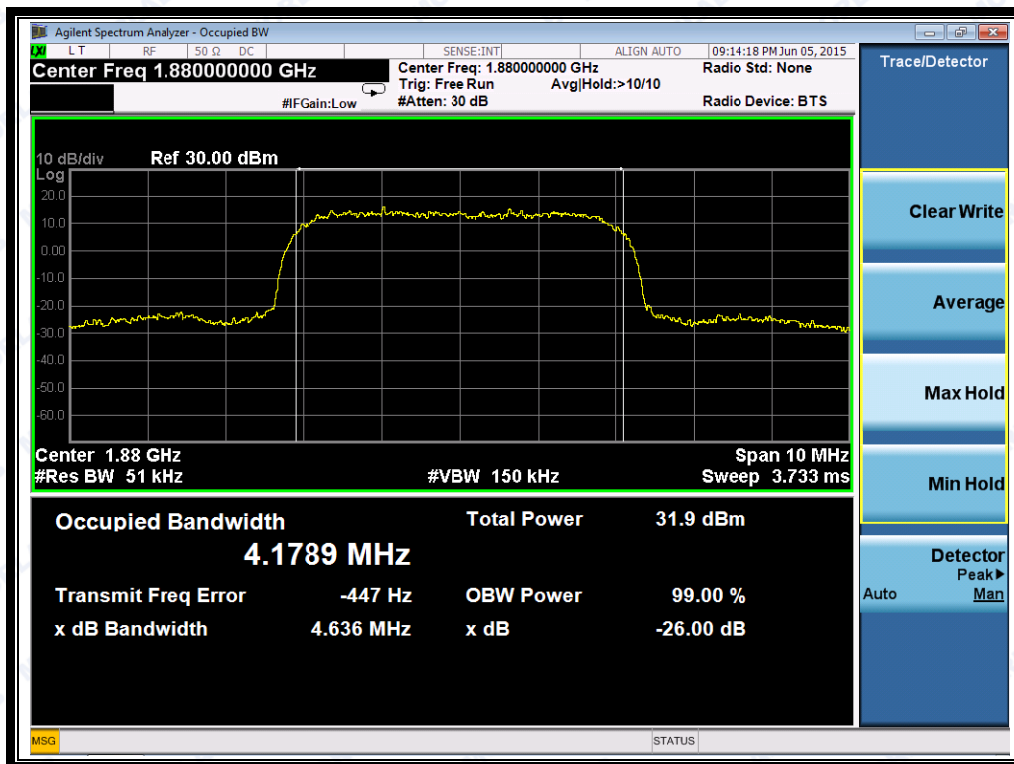
(Plot G3: WCDMA 850MHz Channel = 4233)



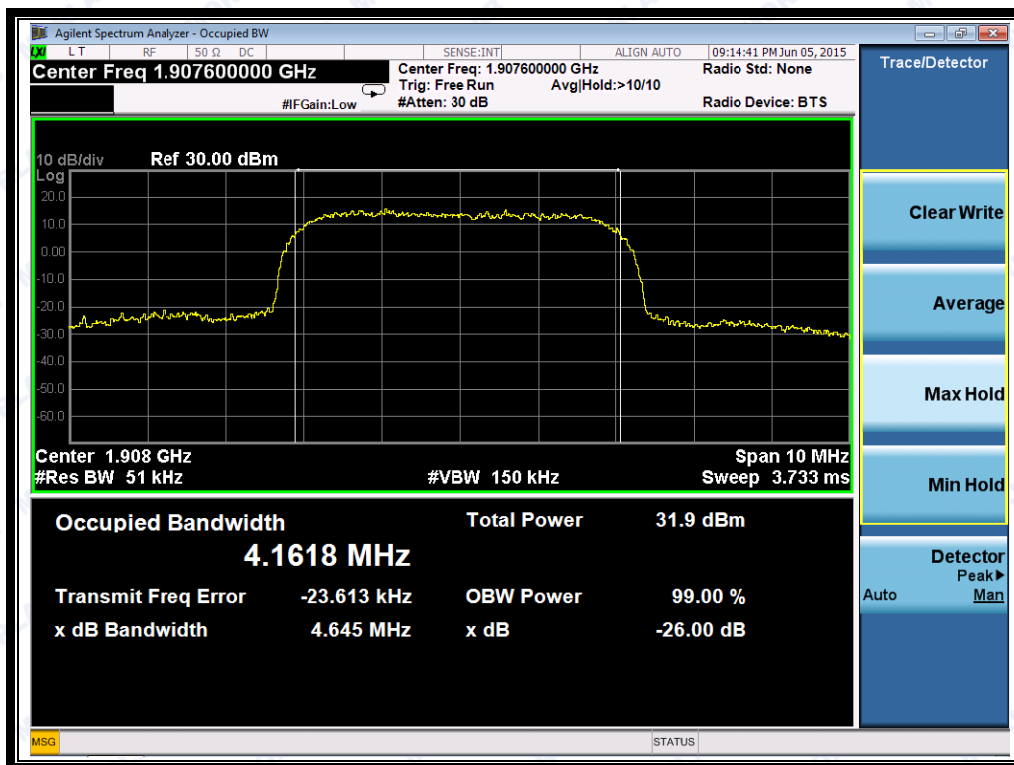
(Plot H1: WCDMA 1900MHz Channel = 9262)



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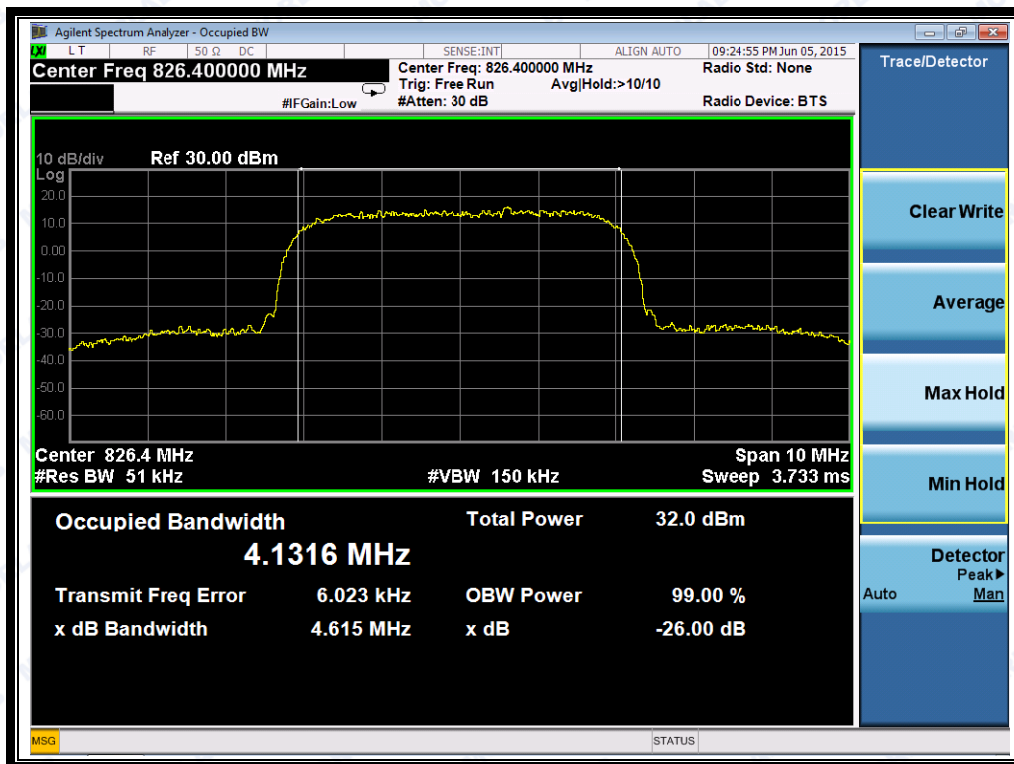
(Plot H2: WCDMA 1900 MHz Channel = 9400)



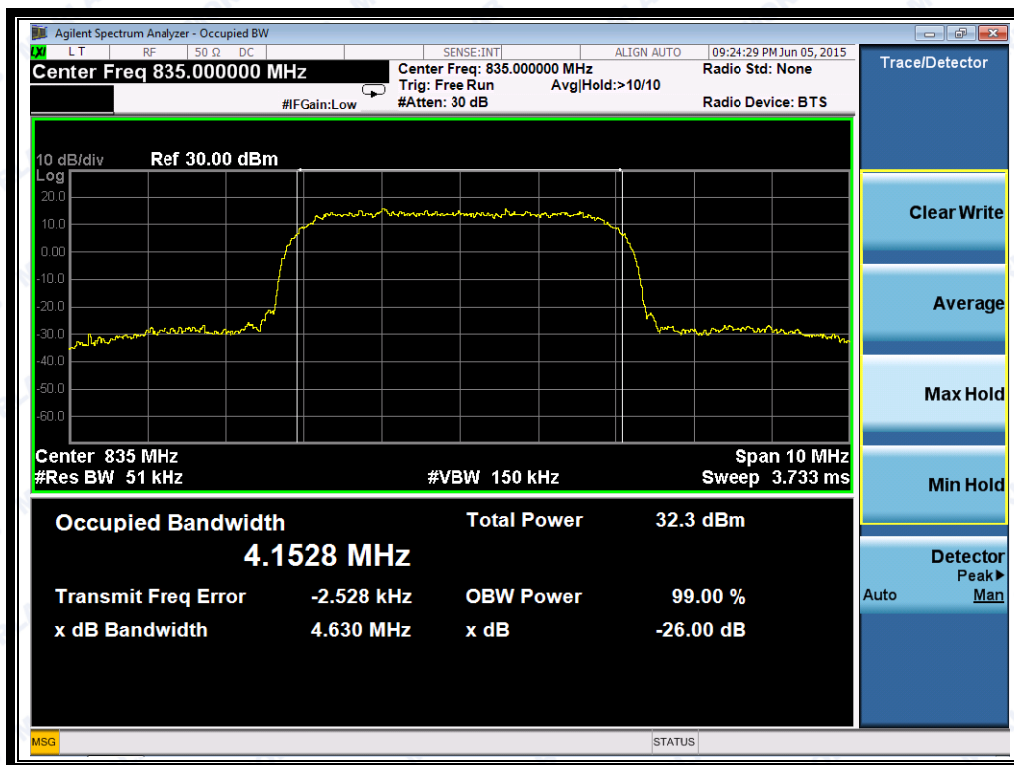
(Plot H3: WCDMA1900MHz Channel = 9538)



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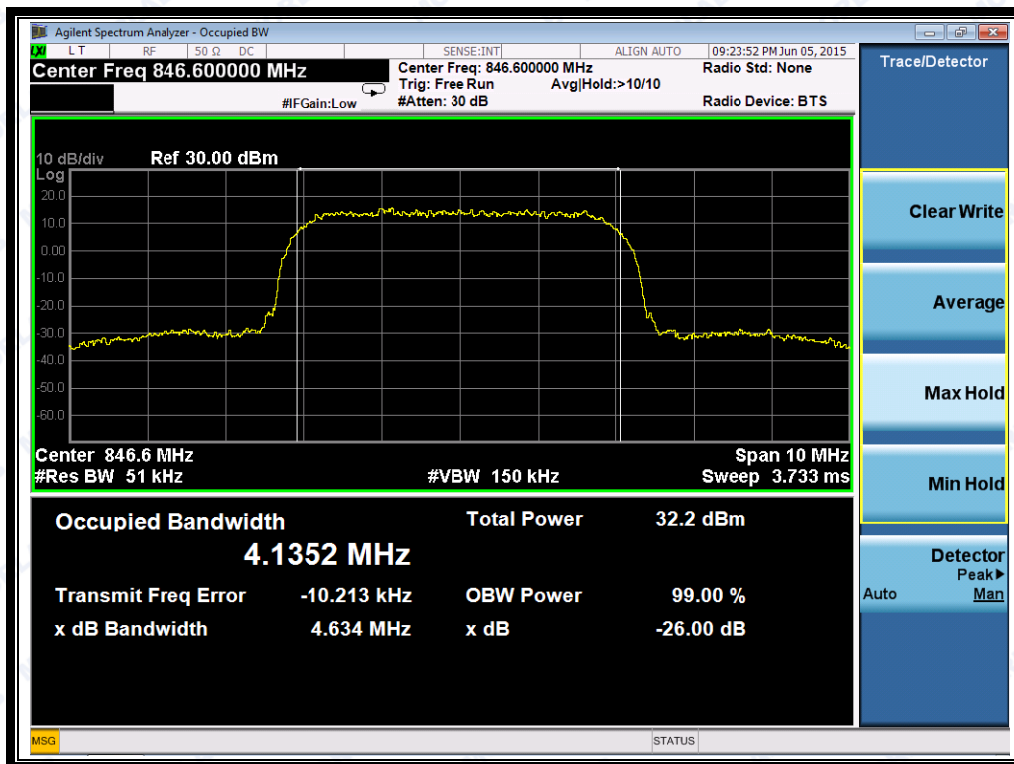
(Plot I1: HSDPA 850MHz Channel = 4132)



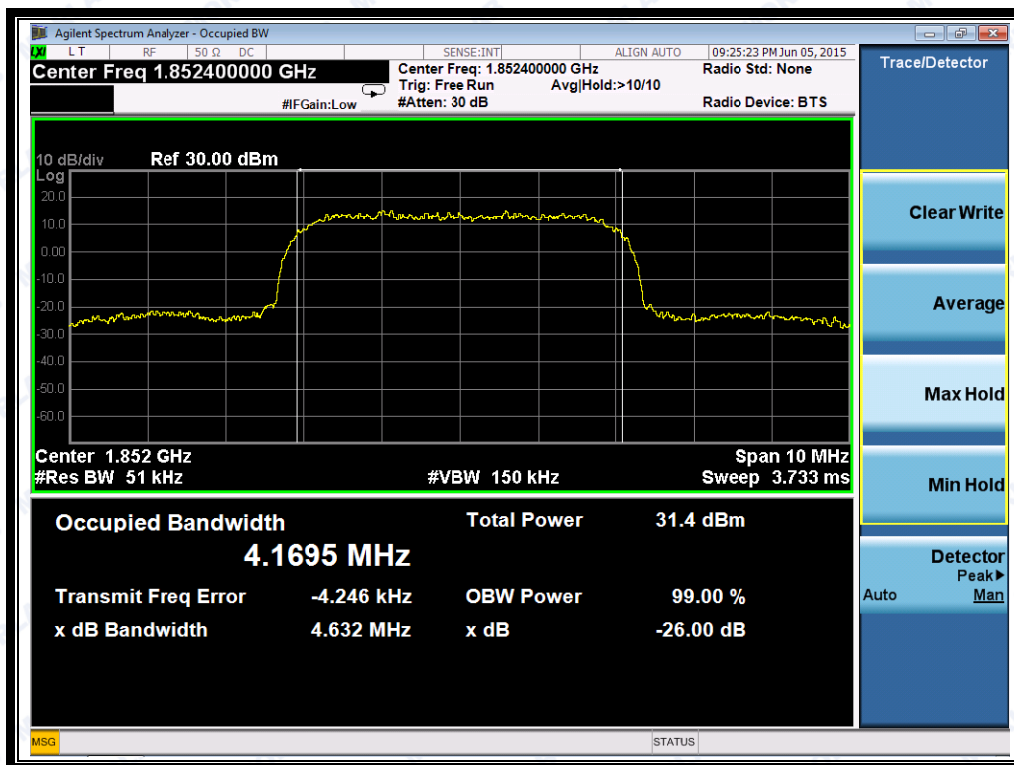
(Plot I2: HSDPA 850 MHz Channel = 4175)



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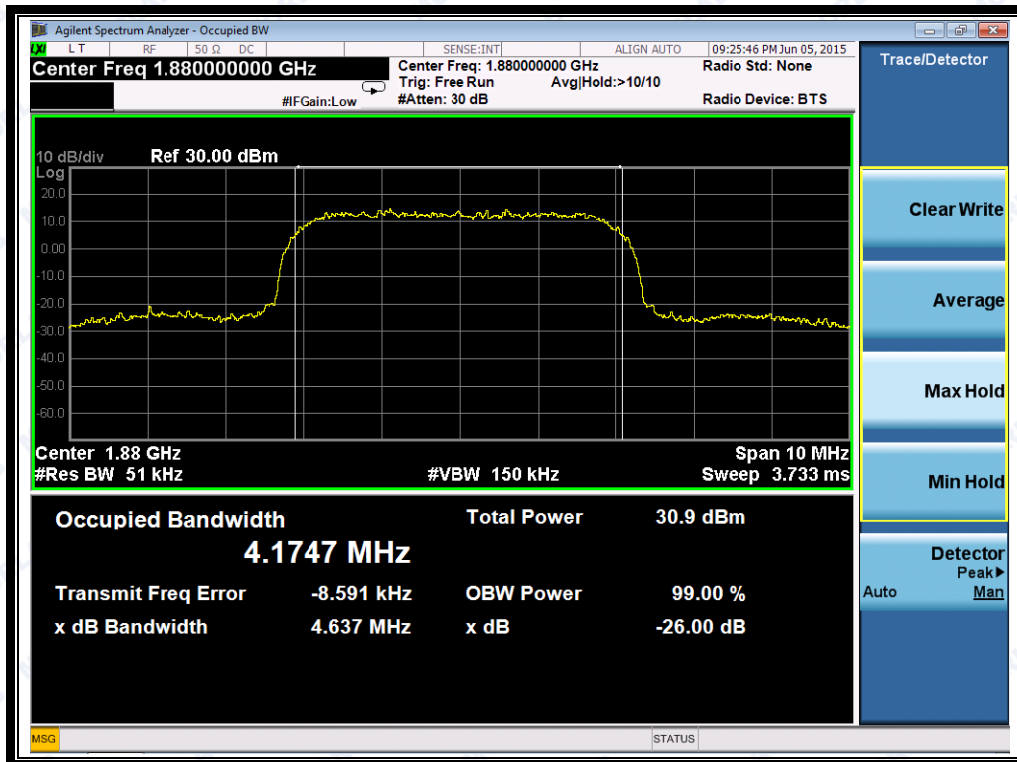
(Plot I3: HSDPA 850MHz Channel = 4233)



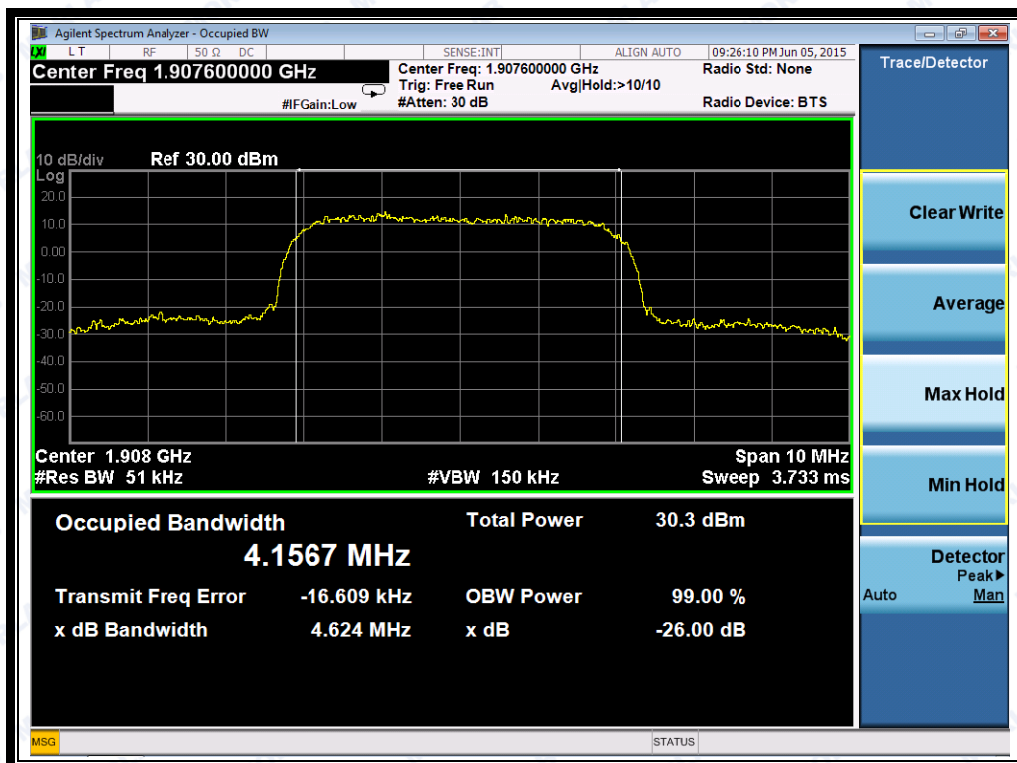
(Plot J1: HSDPA 1900MHz Channel = 9262)



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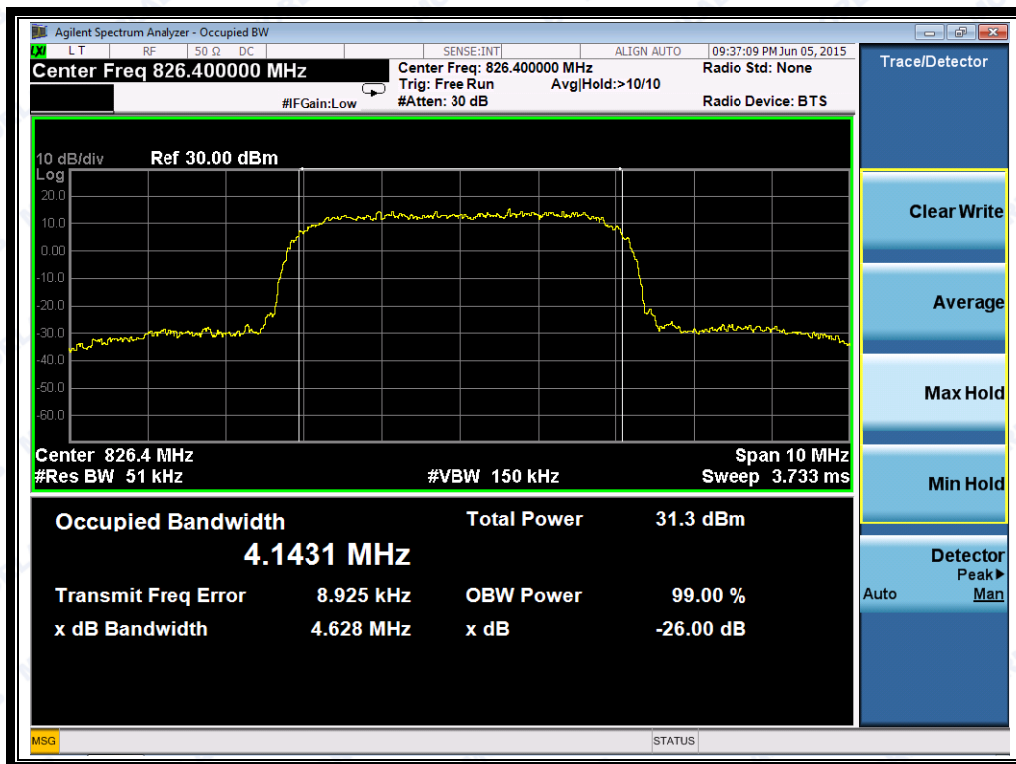
(Plot J2: HSDPA 1900 MHz Channel = 9400)



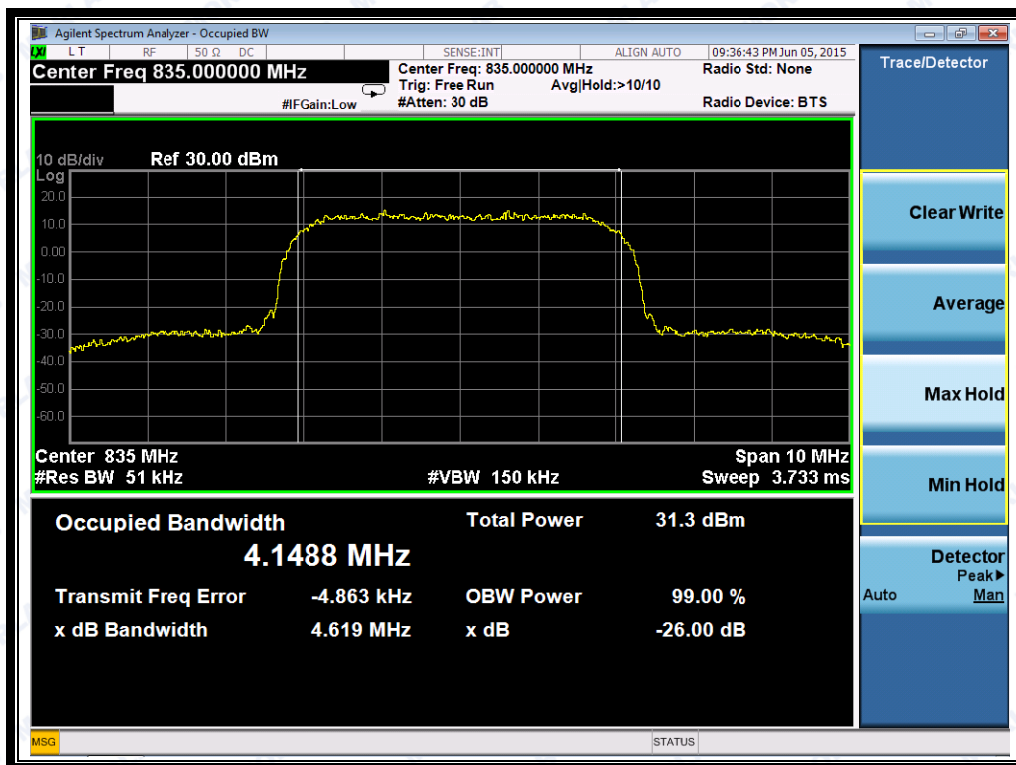
(Plot J3: HSDPA 1900MHz Channel = 9538)



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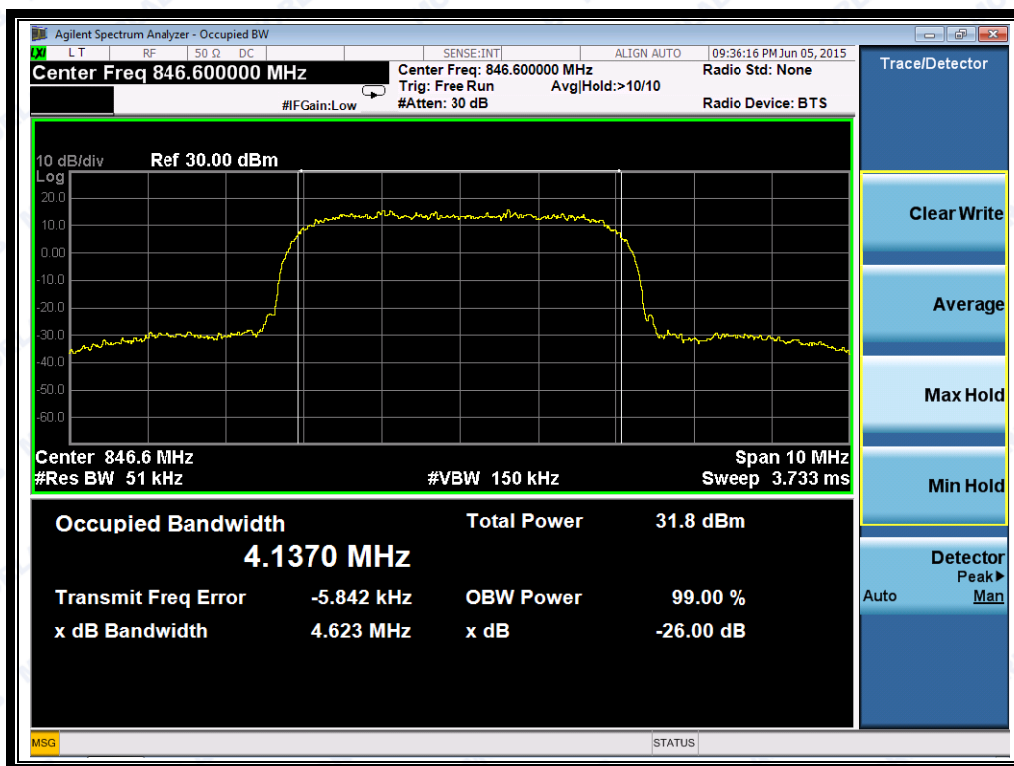
(Plot K1: HSUPA 850MHz Channel = 4132)



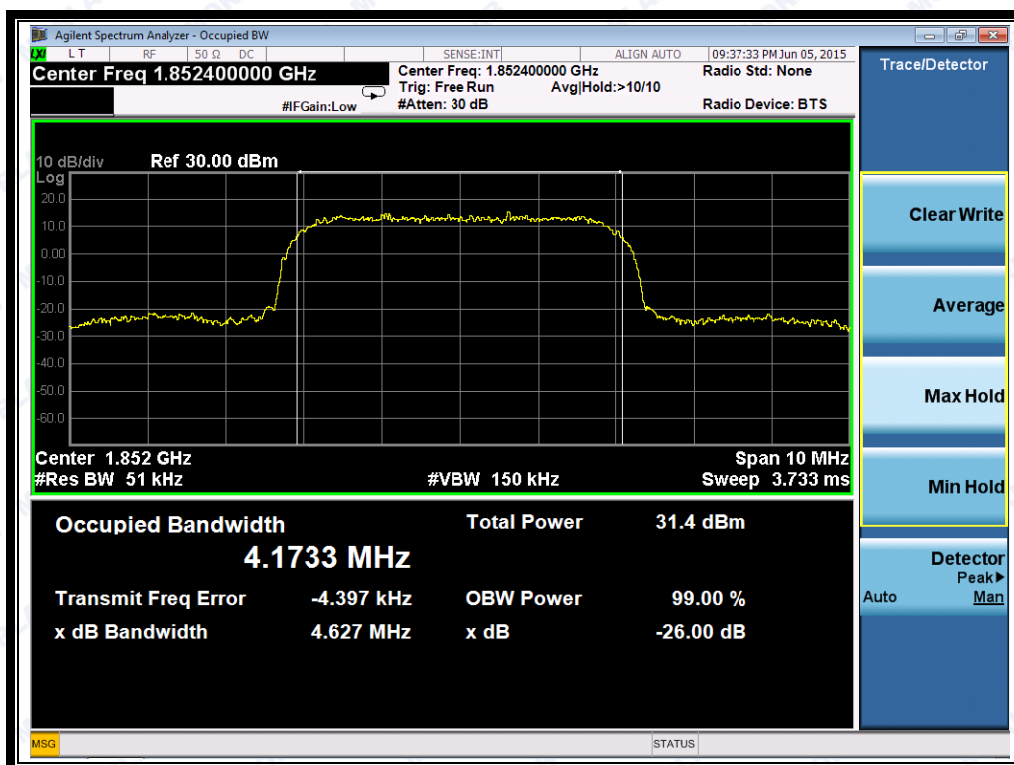
(Plot K2: HSUPA 850 MHz Channel = 4175)



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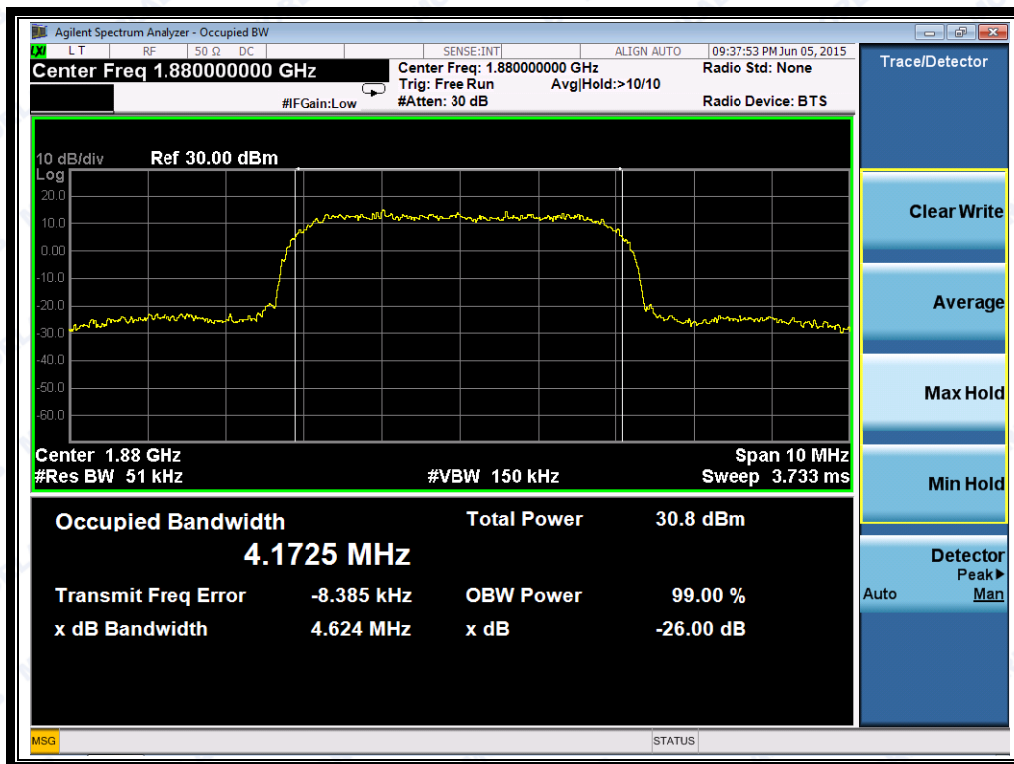
(Plot K3: HSUPA 850MHz Channel = 4233)



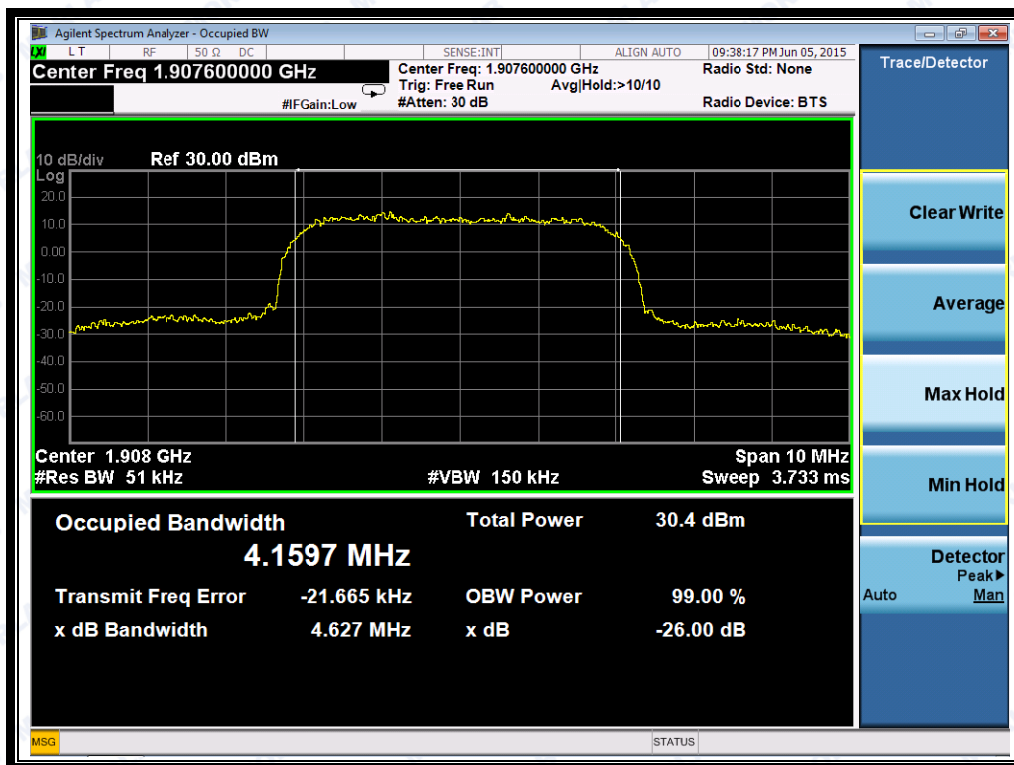
(Plot L1: HSUPA 1900MHz Channel = 9262)



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(Plot L2: HSUPA 1900 MHz Channel = 9400)



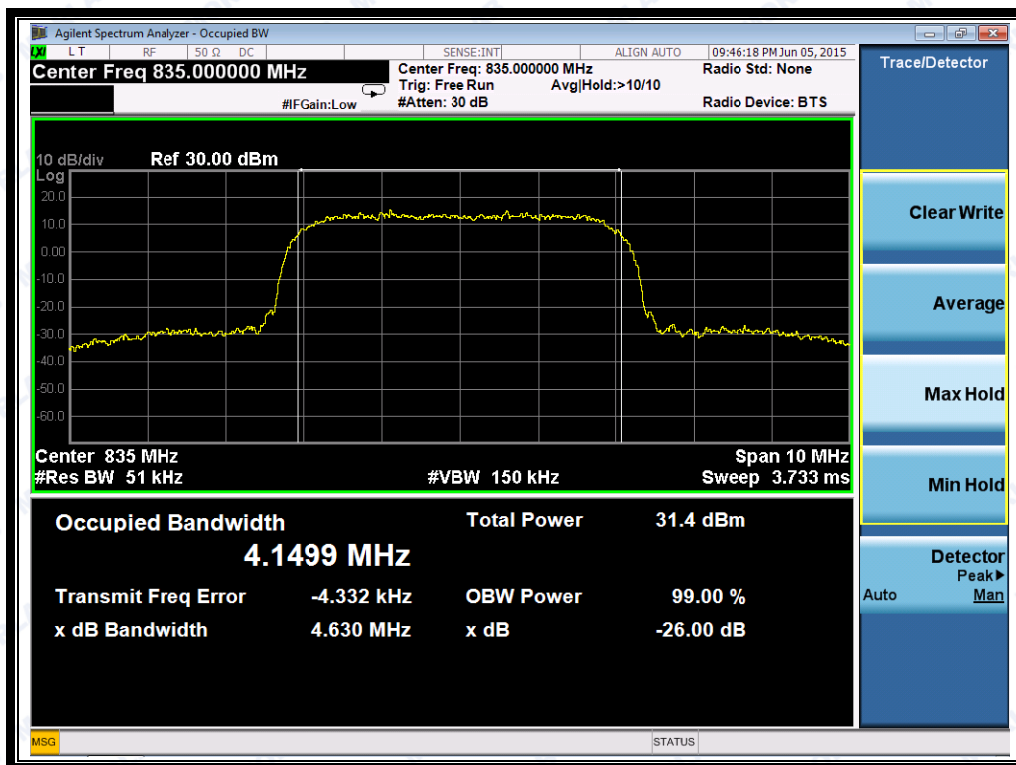
(Plot L3: HSUPA 1900MHz Channel = 9538)



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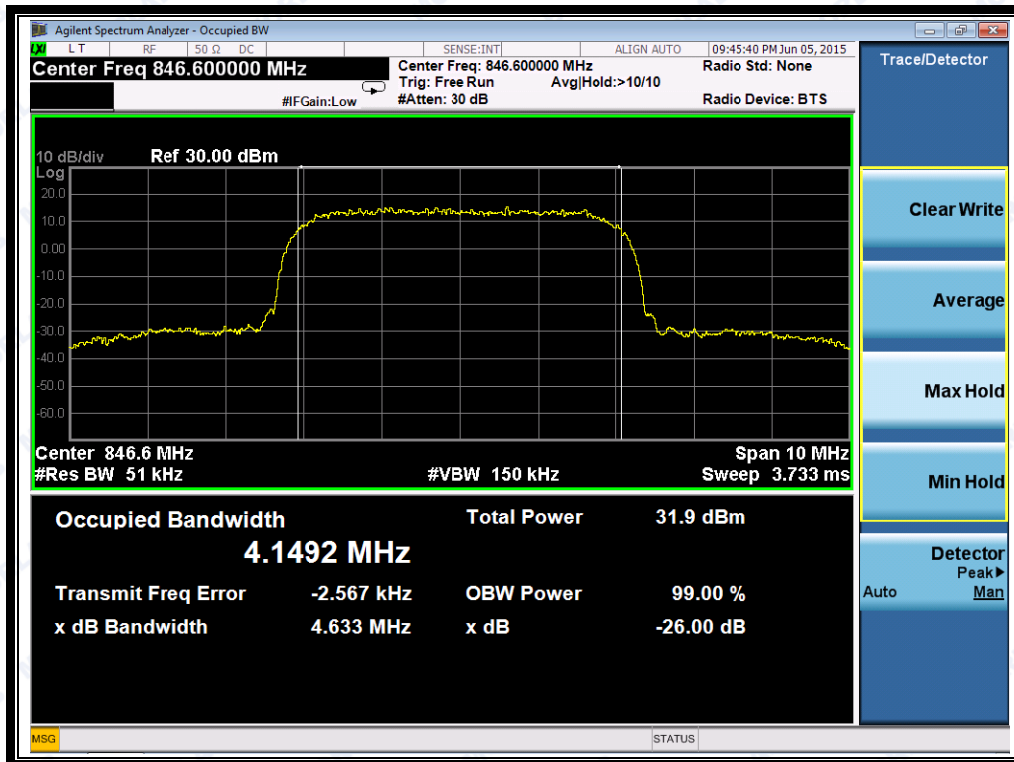
(Plot M1: HSPA+ 850MHz Channel = 4132)



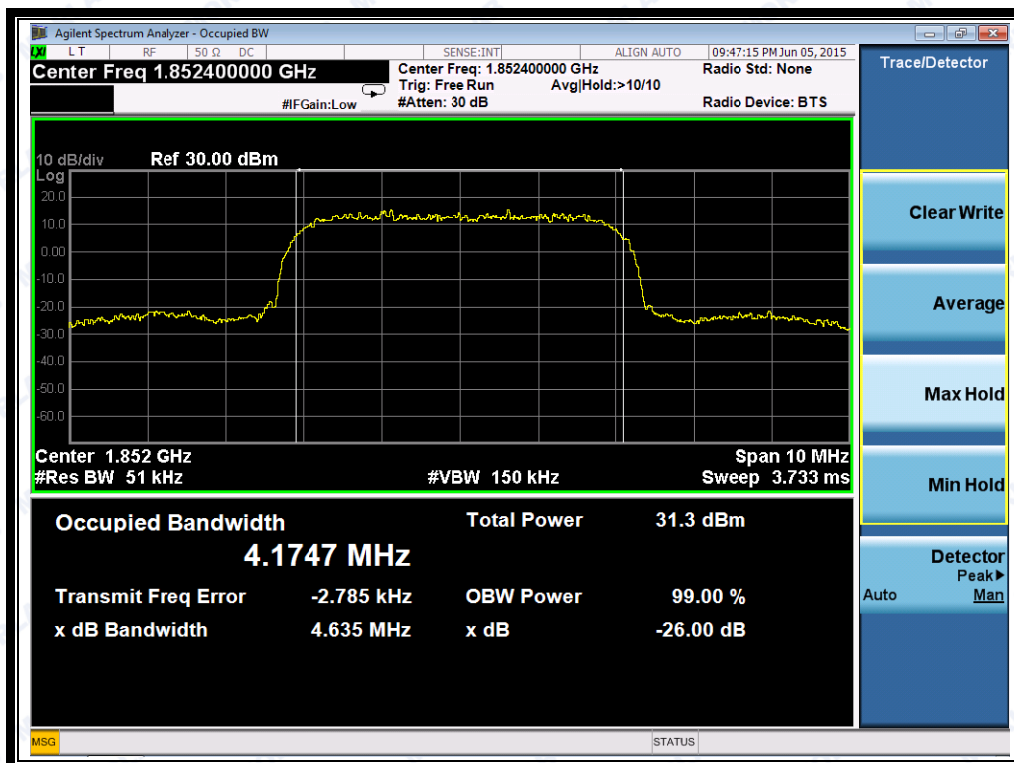
(Plot M2: HSPA+ 850 MHz Channel = 4175)



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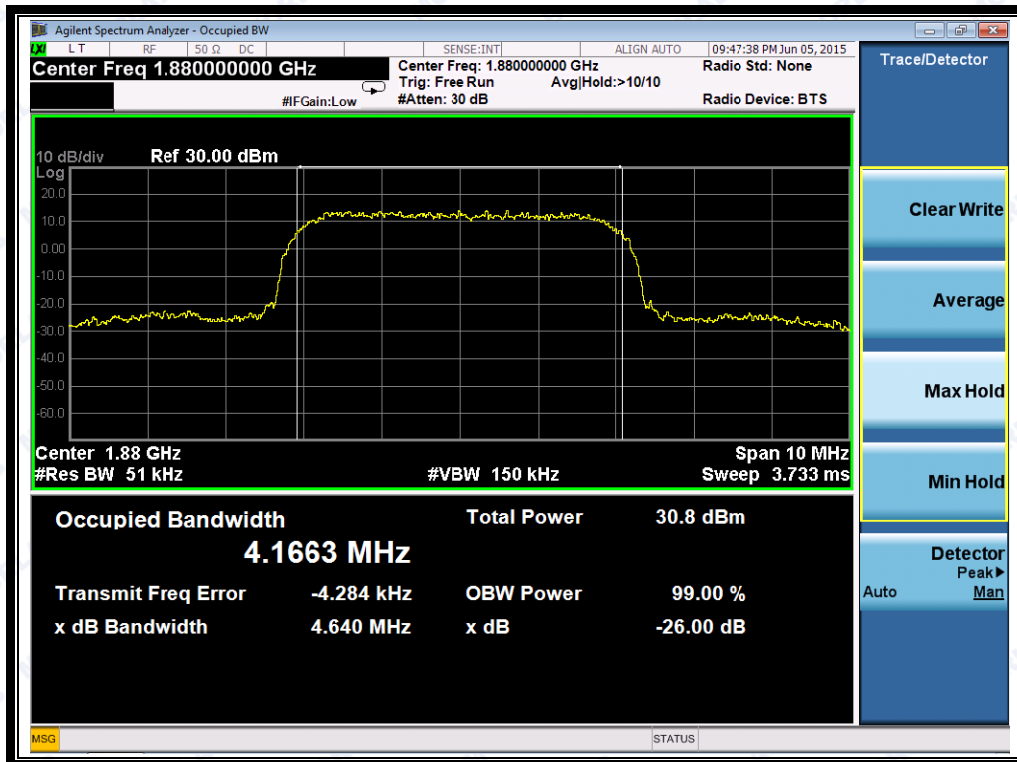
(Plot M3: HSPA+ 850MHz Channel = 4233)



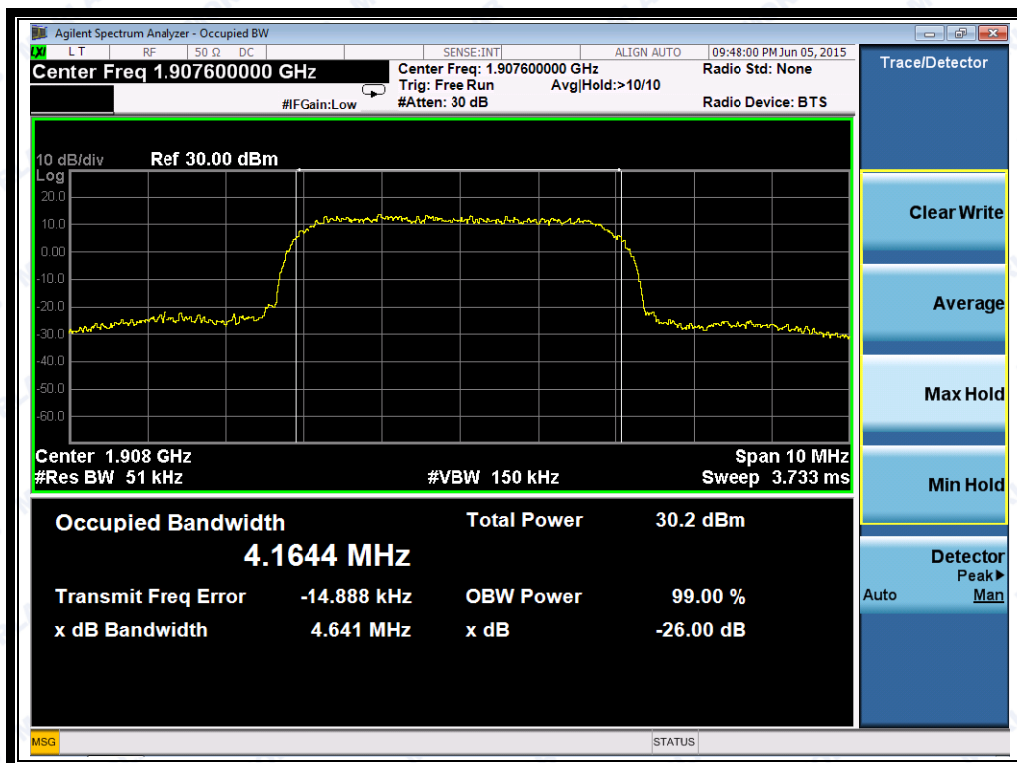
(Plot N1: HSPA+ 1900MHz Channel = 9262)



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(Plot N2: HSPA+ 1900 MHz Channel = 9400)



(Plot N3: HSPA+ 1900MHz Channel = 9538)

2.4 Frequency Stability

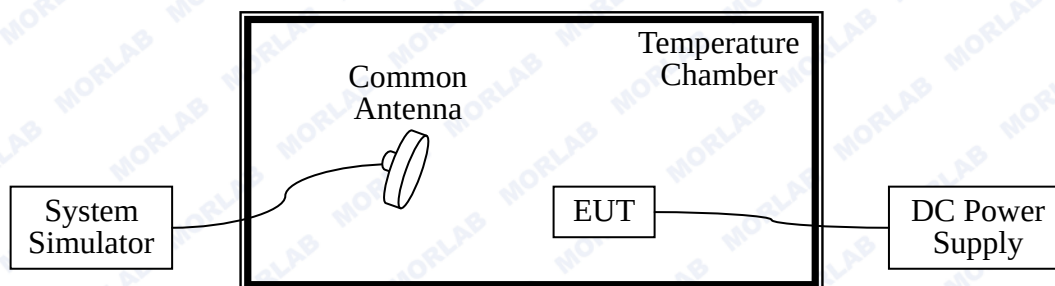
2.4.1 Requirement

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2 Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
DC Power Supply	Good Will	GPS -3030DD	EF920938	2015.02.26	2016.02.25
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2015.02.26	2016.02.25



2.4.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.45VDC, which are specified by the applicant; the normal temperature here used is 25°C. The frequency deviation limit of 850MHz band is $\pm 2.5\text{ppm}$, and 1900MHz is $\pm 1\text{ppm}$.

1. WCDMA 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	-13.39	±2066	10.23	±2087.5	-16.86	±2116.5	PASS
	-20	30.13		20.02		-3.22		
	-10	-9.38		-16.32		21.5		
	0	-15.02		-14.95		19.91		
	+10	-25.38		34.22		-15.3		
	+20	11.78		-9.3		22.5		
	+30	16.11		-15.82		-14.91		
	+40	-11.48		22.3		13.42		
	+55	10.12		15.95		20.56		
4.2	+25	-3.22		34.16		-25.36		
3.45	+25	21.52		-19.14		10.03		

2. WCDMA 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.8	-30	-11.9	±1852.4	8.62	±1880	14.24	±1907.6	PASS
	-20	9.91		-14.01		-12.28		
	-10	-19.23		-9.5		9.53		
	0	21.5		4.65		-5.88		
	+10	22.91		-4.84		33.24		
	+20	-13.22		8.58		7.29		
	+30	26.55		-26.95		21.5		
	+40	-13.51		28.36		16.11		
	+55	-3.82		-13.34		-11.86		
4.2	+25	-14.01		13.3		9.91		
3.45	+25	-9.5		-12.28		-13.3		



3. HSDPA 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	-1.7	±2066	26.25	±2087.5	-26.44	±2116.5	PASS
	-20	16.93		-9.77		-16.03		
	-10	-23.82		20.44		34.16		
	0	29.82		12.67		-9.38		
	+10	18.3		-14.96		-15.02		
	+20	13.82		8.57		-25.44		
	+30	14.42		11.81		-9.3		
	+40	20.58		-15.82		-14.94		
	+55	-25.36		22.3		25.38		
4.2	+25	-14.95		6.86		6.93		
3.45	+25	34.24		-33.28		1.79		

4. HSDPA 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.8	-30	31.27	±1852.4	0.65	±1880	6.61	±1907.6	PASS
	-20	5.32		-11.54		24.58		
	-10	-28.92		-15.98		-15.48		
	0	26.49		-11.47		-5.79		
	+10	-5.41		2.68		13.46		
	+20	5.73		11.62		4.68		
	+30	8.69		-17.19		-7.05		
	+40	-18.73		20.53		18.67		
	+55	17.94		14.14		11.33		
4.2	+25	-5.19		-12.46		-14.25		
3.45	+25	19.53		8.45		7.56		



5. HSUPA 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	11.76	±2066	-8.9	±2087.5	27.39	±2116.5	PASS
	-20	-20.37		10.82		-13.97		
	-10	-14.83		25.49		-2.62		
	0	-3.48		26.15		-0.47		
	+10	-3.03		-10.76		-0.54		
	+20	20.43		-14.03		-9.68		
	+30	21.21		11.59		24.34		
	+40	6.59		25.46		-19.38		
	+55	20.72		34.05		-14.79		
4.2	+25	-7.61		-10.28		-15.27		
3.45	+25	2.01		-7.87		-2.56		

6. HSUPA 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.8	-30	4.73	±1852.4	-3.34	±1880	-3.73	±1907.6	PASS
	-20	0.05		-14.81		20.98		
	-10	-7.71		-8.87		11.61		
	0	13.42		22.52		-9.26		
	+10	-4.72		-19.74		19.4		
	+20	14.04		-14.83		20.56		
	+30	-15.83		30.39		-3.48		
	+40	-3.38		25.95		-1.89		
	+55	-3.03		5.44		-10.98		
4.2	+25	10.78		0.13		3.77		
3.45	+25	-18.29		-6.91		-5.87		



7. HSPA+ 850MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 4123 (826.4MHz)		Channel = 4175 (835MHz)		Channel = 4233 (846.6MHz)		
		Hz	Limit	Hz	Limit	Hz	Limit	
3.8	-30	15.55	±2066	-8.9	±2087.5	11.46	±2116.5	PASS
	-20	19.36		10.82		-20.75		
	-10	28.09		25.49		-5.48		
	0	-20.18		26.15		-3.03		
	+10	-17.47		-10.71		-19.35		
	+20	12.06		0.68		10.43		
	+30	-3.48		23.14		27.39		
	+40	-3.03		-19.38		-13.97		
	+55	20.72		-14.79		-2.62		
4.2	+25	-7.61		-15.27		6.53		
3.45	+25	13.21		-2.56		10.36		

8. HSPA+ 1900MHz Band

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	Channel = 9262 (1852.4MHz)		Channel = 9400 (1880.0MHz)		Channel = 9538 (1907.6MHz)		
		Hz	Limits	Hz	Limits	Hz	Limits	
3.8	-30	16.25	±1852.4	-3.48	±1880	8.93	±1907.6	PASS
	-20	-34.01		-3.03		17.97		
	-10	19.4		-9.68		9.43		
	0	0.35		21.21		1.13		
	+10	-19.04		4.59		-7.91		
	+20	16.04		-14.38		-8.71		
	+30	-17.35		-35.73		0.35		
	+40	-14.83		24.98		-8.69		
	+55	-3.48		21.61		15.26		
4.2	+25	-3.03		-39.19		-36.51		
3.45	+25	-18.35		19.4		0.35		



2.5 Conducted Out of Band Emissions

2.5.1 Requirement

According to FCC section 22.917(a) and FCC section 24.238(a) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB. This calculated to be -13dBm.

2.5.2 Test Description

See section 2.1.2 of this report.

2.5.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

1. Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2015.02.26	2016.02.25
Power Meter	Agilent	E4418B	GB43318055	2015.02.26	2016.02.25
Power Sensor	Agilent	8482A	MY41091706	2015.02.26	2016.02.25
Power Splitter	Weinschel	1506A	NW521	2015.02.26	2016.02.25
Attenuator 1	Resnet	20dB	(n.a.)	2015.02.26	2016.02.25
Attenuator 2	Resnet	3dB	(n.a.)	2015.02.26	2016.02.25

2. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
WCDMA 850MHz	4132	826.4	< -25	Plot G1 to G1.1	-13	PASS
	4175	835.0	< -25	Plot G2 to G2.1		PASS
	4233	846.6	< -25	Plot G3 to G3.1		PASS
WCDMA 1900MHz	9262	1852.4	< -25	Plot H1 to H1.1	-13	PASS
	9400	1880.0	< -25	Plot H2 to H2.1		PASS
	9538	1907.6	< -25	Plot H3 to H3.1		PASS
HSDPA 850MHz	4132	826.4	< -25	Plot I1 to I1.1	-13	PASS
	4175	835.0	< -25	Plot I2 to I2.1		PASS
	4233	846.6	< -25	Plot I3 to I3.1		PASS
HSDPA 1900MHz	9262	1852.4	< -25	Plot J1 to J1.1	-13	PASS
	9400	1880.0	< -25	Plot J2 to J2.1		PASS
	9538	1907.6	< -25	Plot J3 to J3.1		PASS

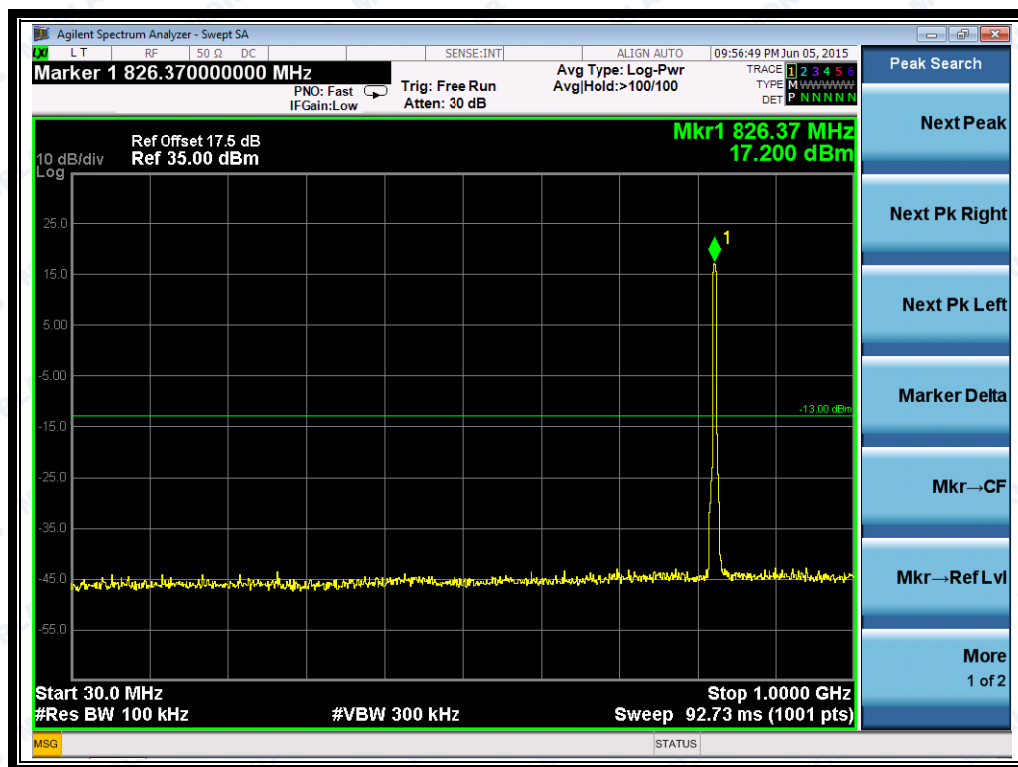


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Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
HSUPA 850MHz	4132	826.4	< -25	Plot K1 to K1.1	-13	PASS
	4175	835.0	< -25	Plot K2 to K2.1		PASS
	4233	846.6	< -25	Plot K3 to K3.1		PASS
HSUPA 1900MHz	9262	1852.4	< -25	Plot L1 to L1.1	-13	PASS
	9400	1880.0	< -25	Plot L2 to L2.1		PASS
	9538	1907.6	< -25	Plot L3 to L3.1		PASS
HSPA+ 850MHz	4132	826.4	< -25	Plot M1 to M1.1	-13	PASS
	4175	835.0	< -25	Plot M2 to M2.1		PASS
	4233	846.6	< -25	Plot M3 to M3.1		PASS
HSPA+ 1900MHz	9262	1852.4	< -25	Plot N1 to N1.1	-13	PASS
	9400	1880.0	< -25	Plot N2 to N2.1		PASS
	9538	1907.6	< -25	Plot N3 to N3.1		PASS

Test Plots for the Whole Measurement Frequency Range:

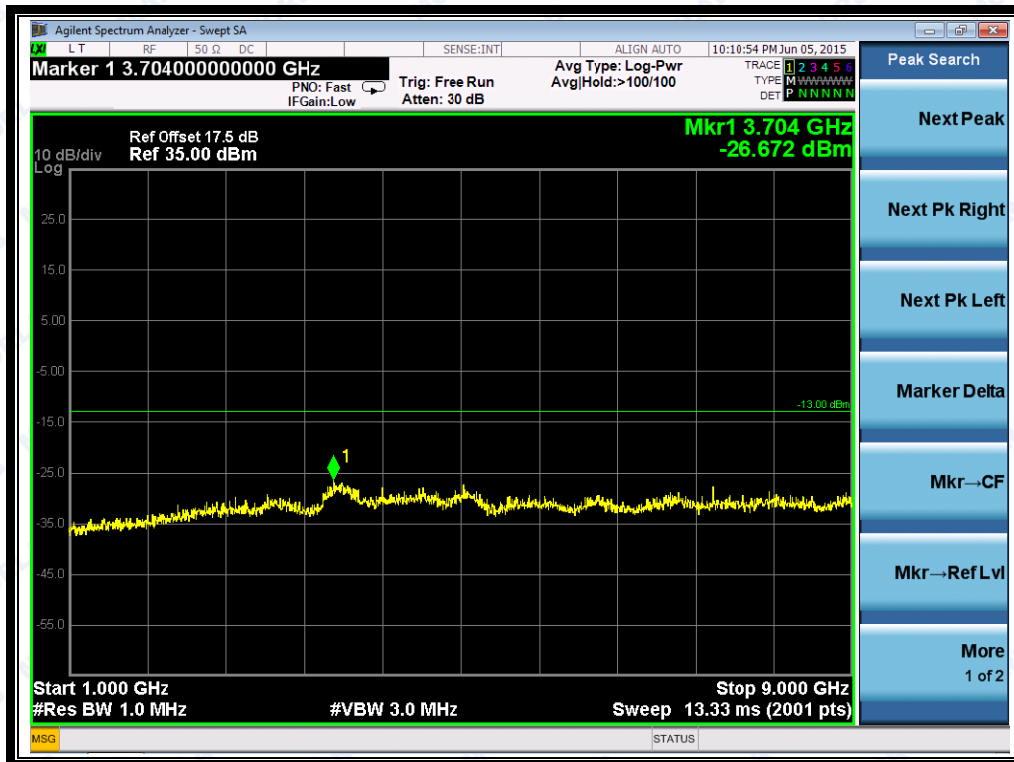
Note: the power of the EUT transmitting frequency should be ignored.



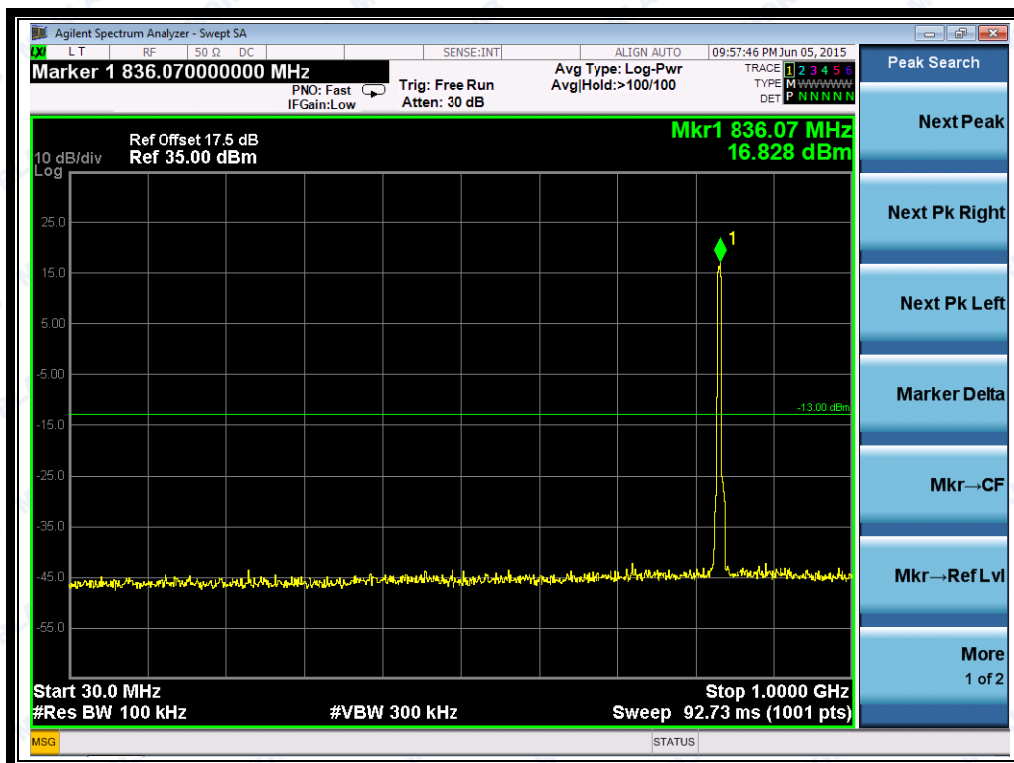
(Plot G1: WCDMA850MHz Channel = 4132, 30MHz to 1GHz)



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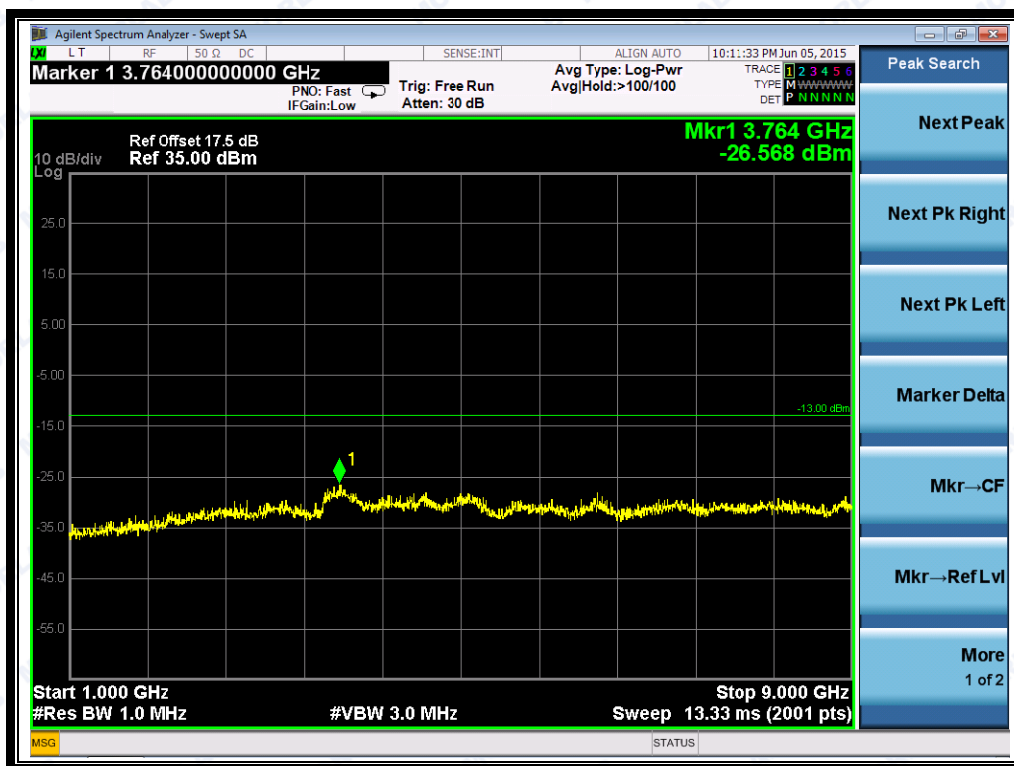
(Plot G1.1: WCDMA850MHz Channel = 4132, 1GHz to 9GHz)



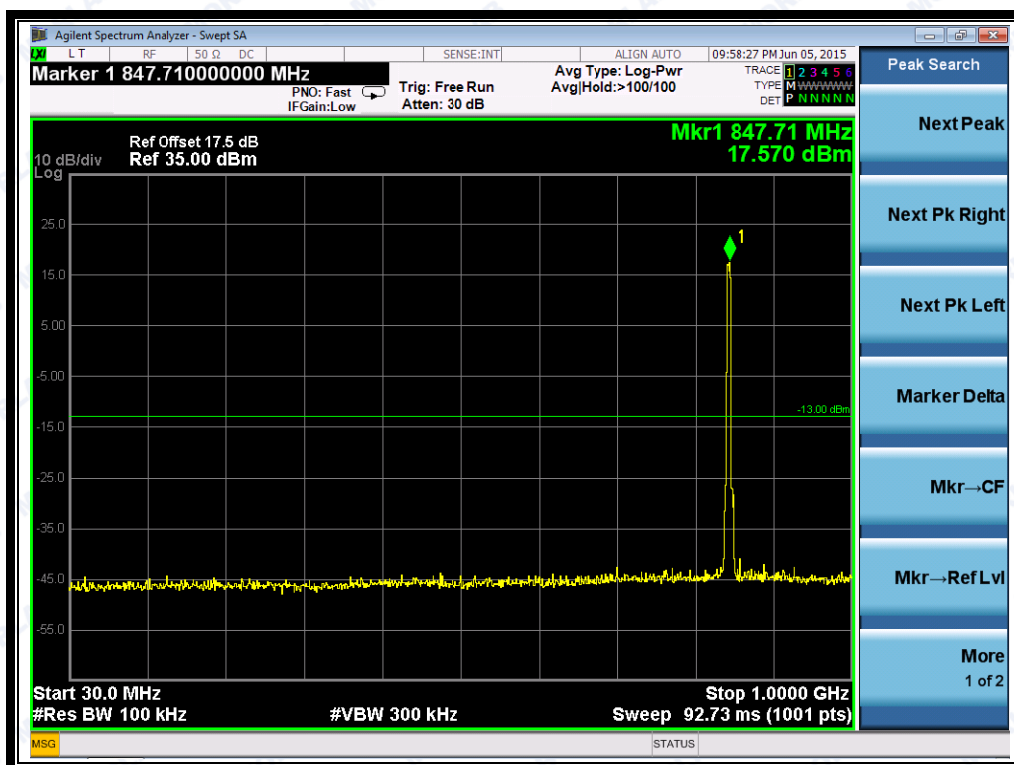
(Plot G2: WCDMA850MHz Channel = 4175, 30MHz to 1GHz)



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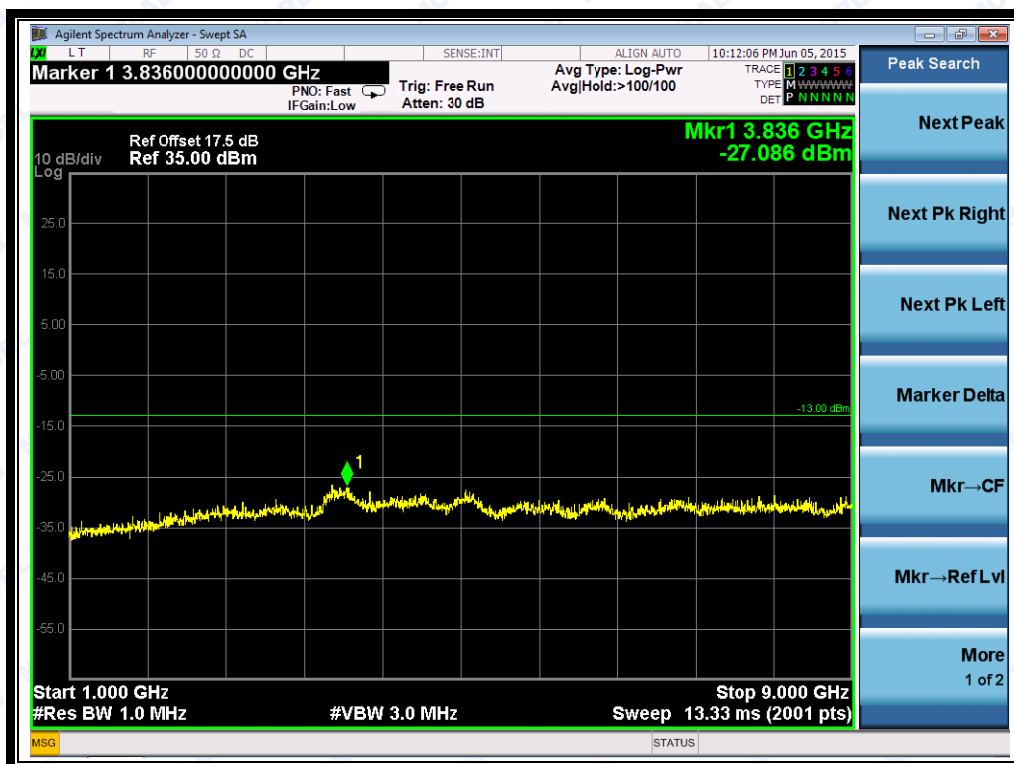
(Plot G2.1: WCDMA850MHz Channel = 4175, 1GHz to 9GHz)



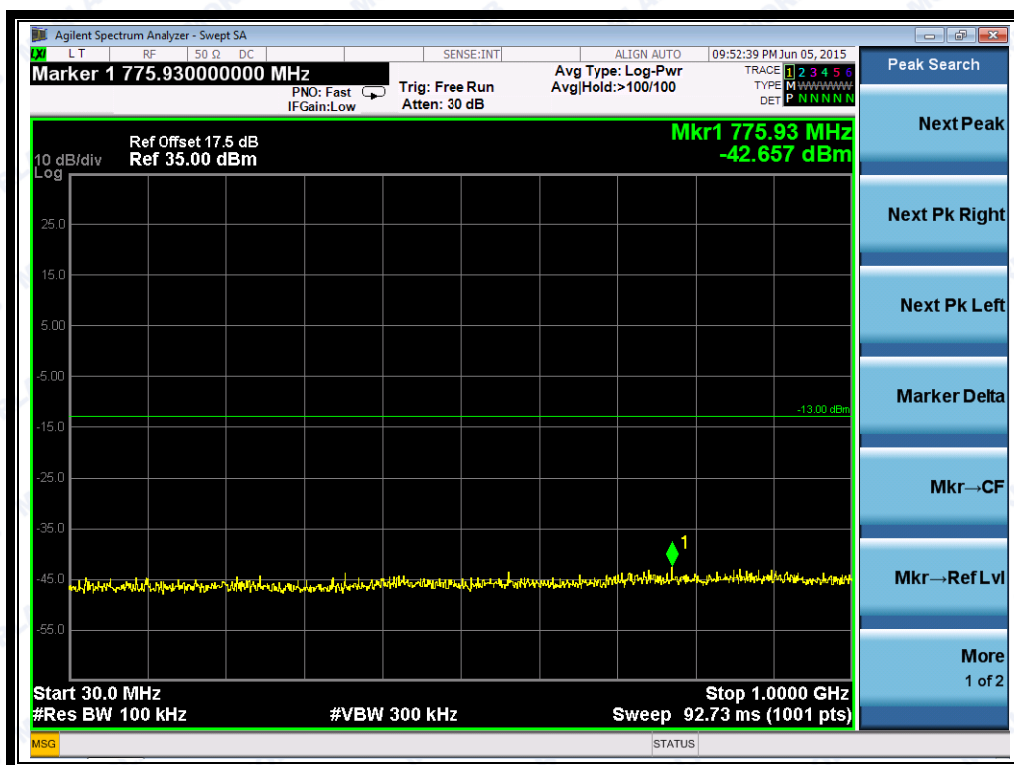
(Plot G3: WCDMA850MHz Channel = 4233, 30MHz to 1GHz)



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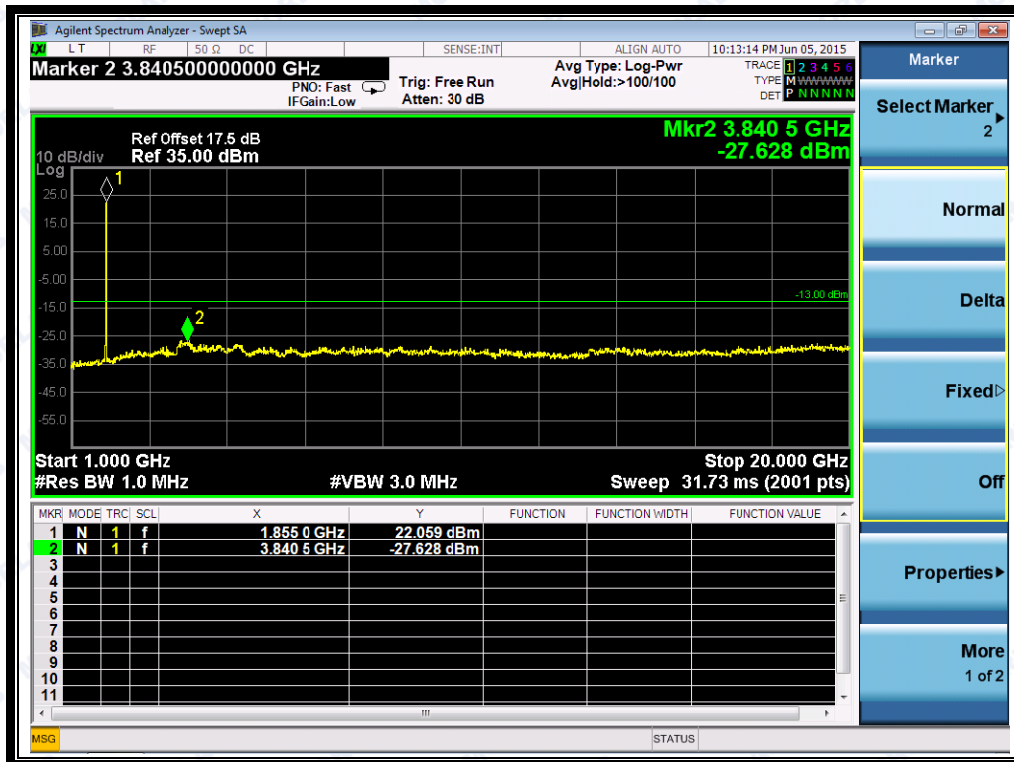
(Plot G3.1: WCDMA850MHz Channel = 4233, 1GHz to 9GHz)



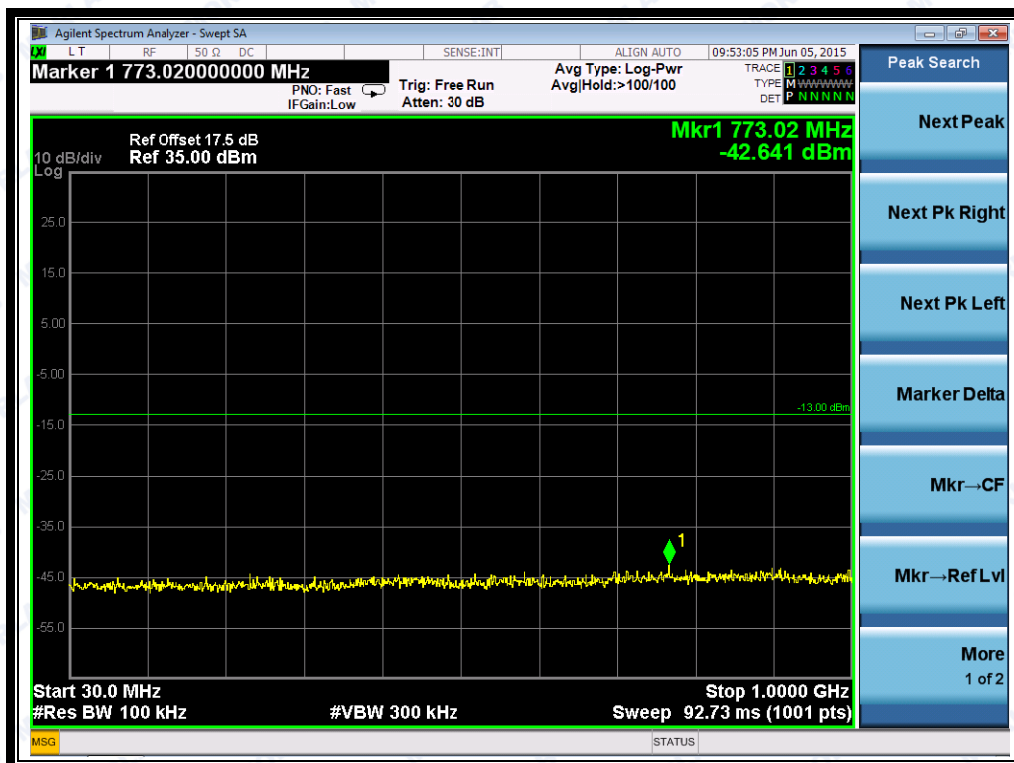
(Plot H1: WCDMA1900MHz Channel = 9262, 30MHz to 1GHz)



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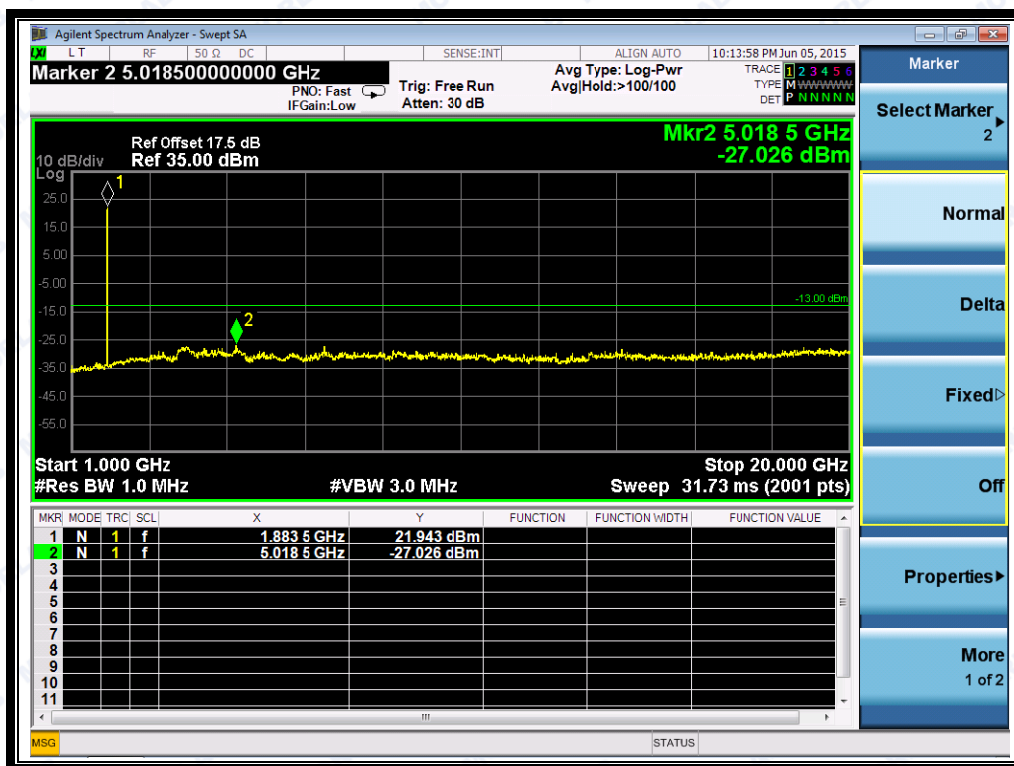
(Plot H1.1: WCDMA1900MHz Channel = 9262, 1GHz to 20GHz)



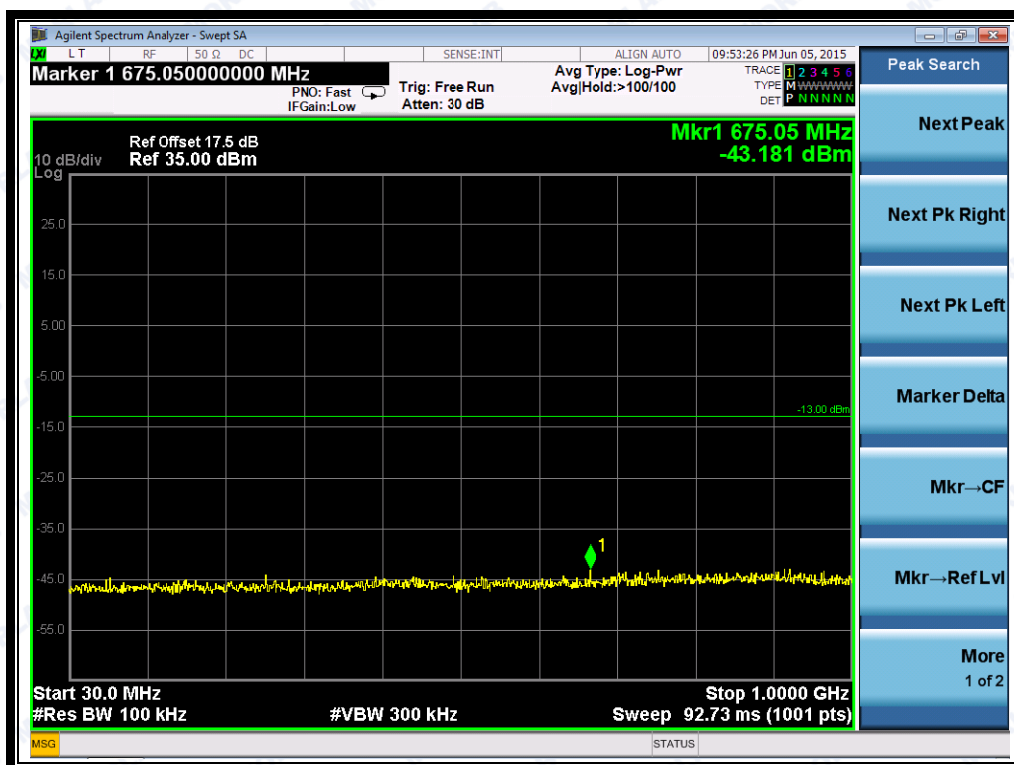
(Plot H2: WCDMA1900MHz Channel = 9400, 30MHz to 1GHz)



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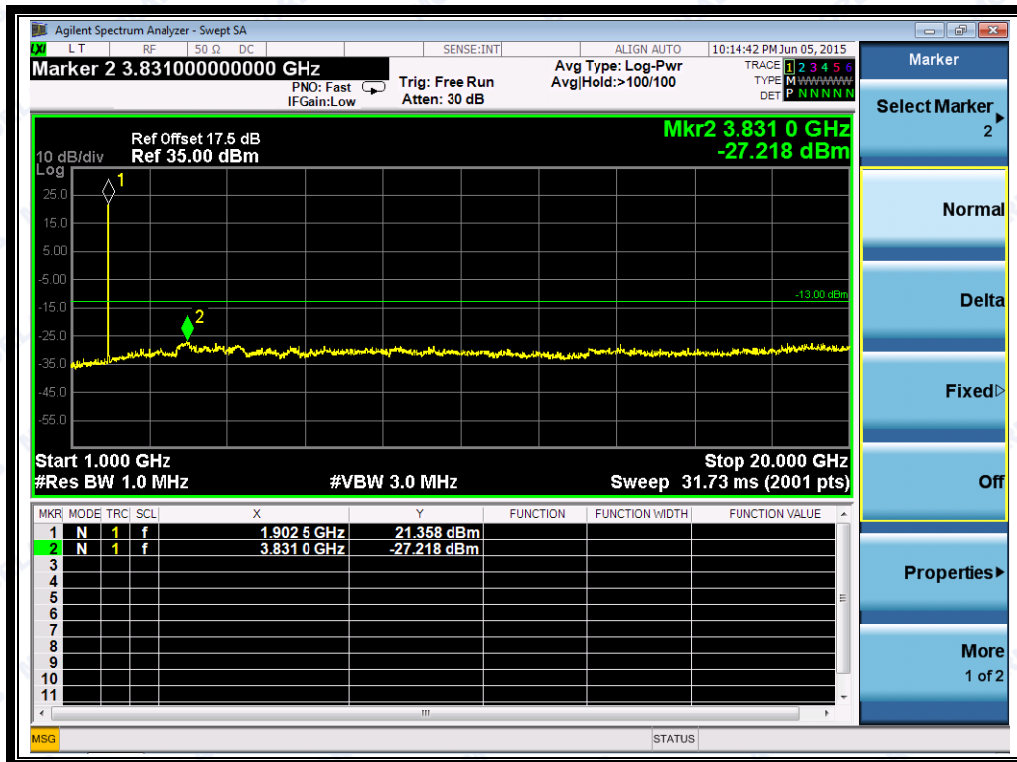
(Plot H2.1: WCDMA1900MHz Channel = 9400, 1GHz to 20GHz)



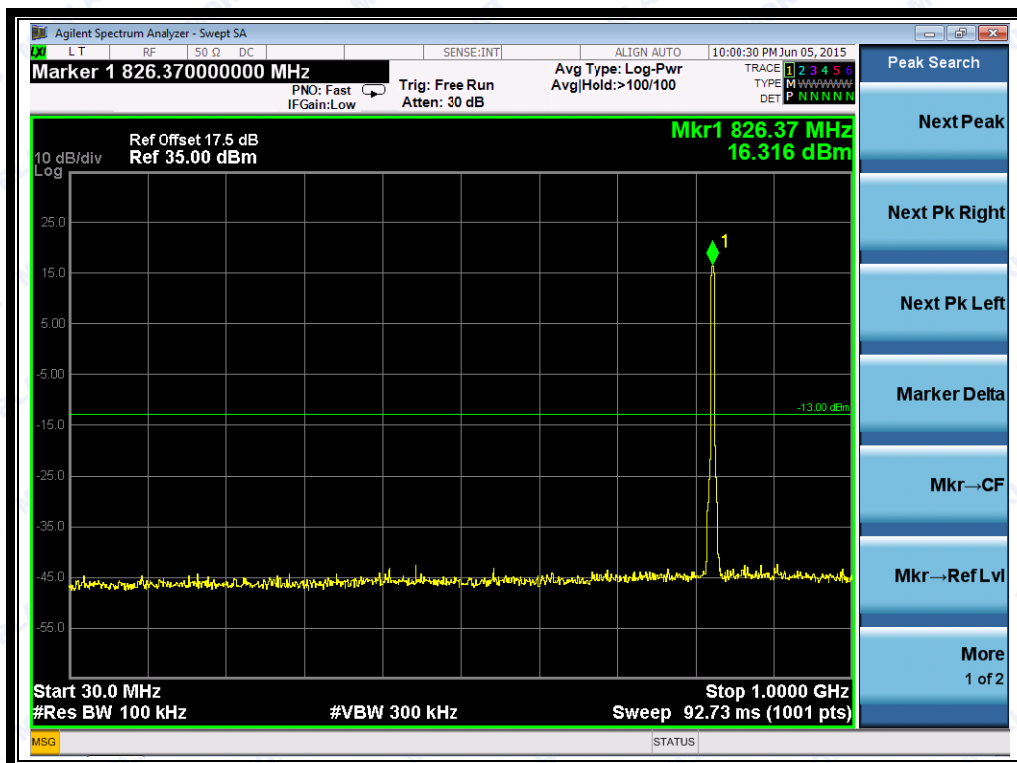
(Plot H3: WCDMA1900MHz Channel = 9538, 30MHz to 1GHz)



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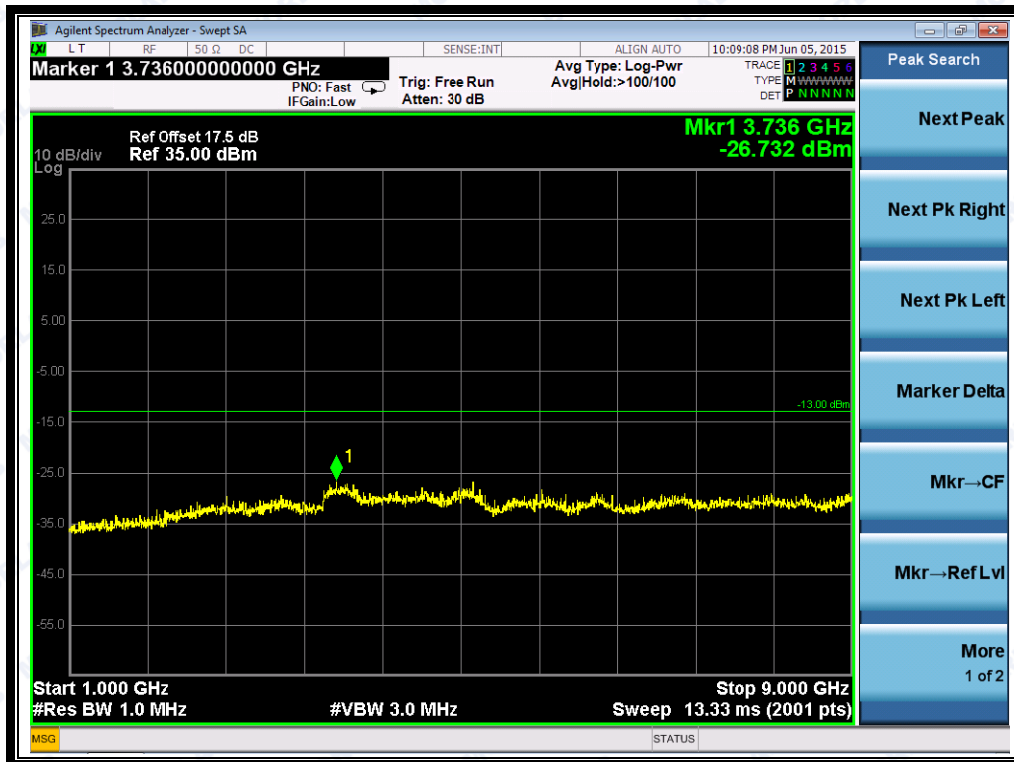
(Plot H3.1: WCDMA1900MHz Channel = 9538 1GHz to 20GHz)



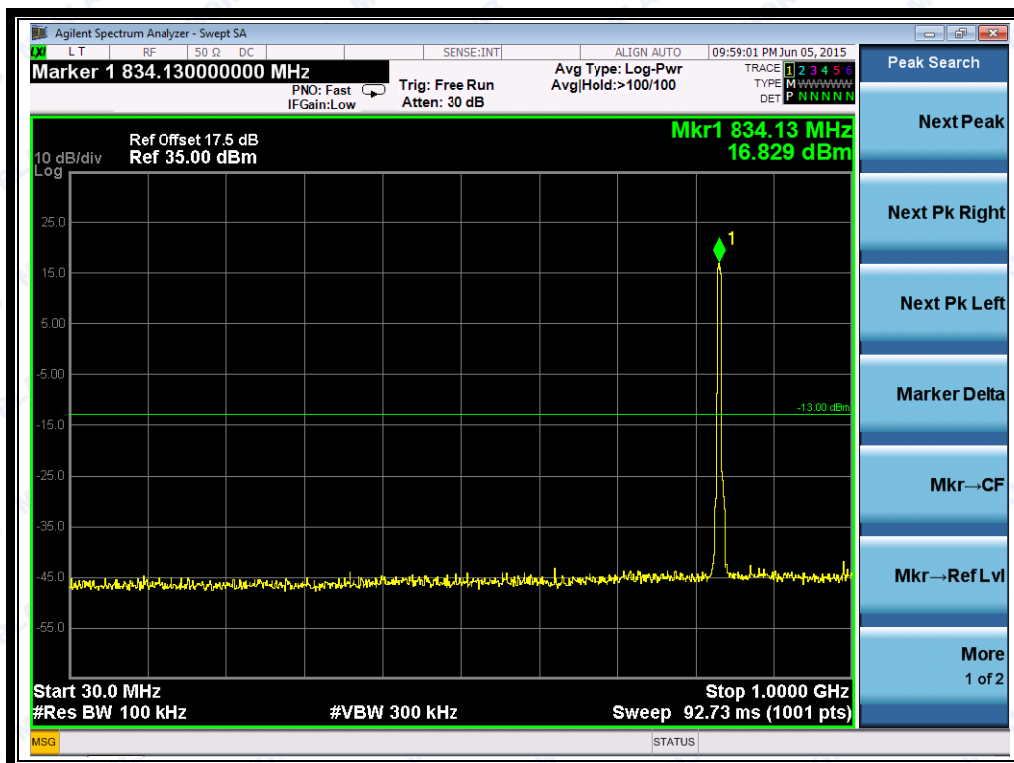
(Plot I1: HSDPA 850MHz Channel = 4132, 30MHz to 1GHz)



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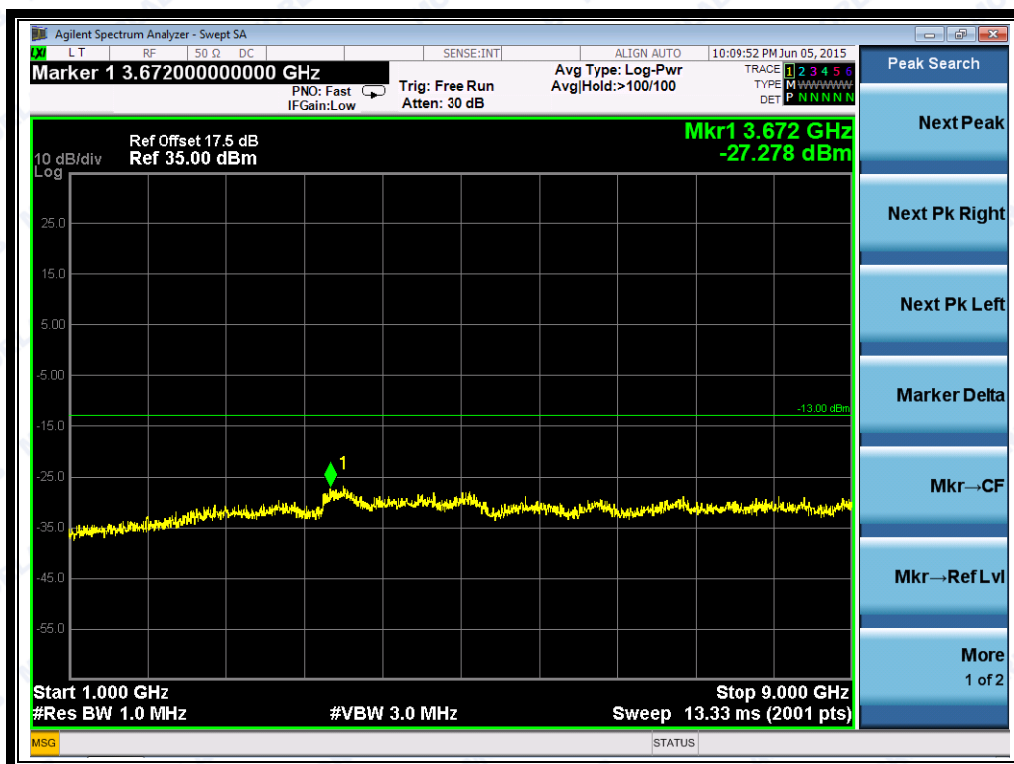
(Plot I1.1: HSDPA 850MHz Channel = 4132, 1GHz to 9GHz)



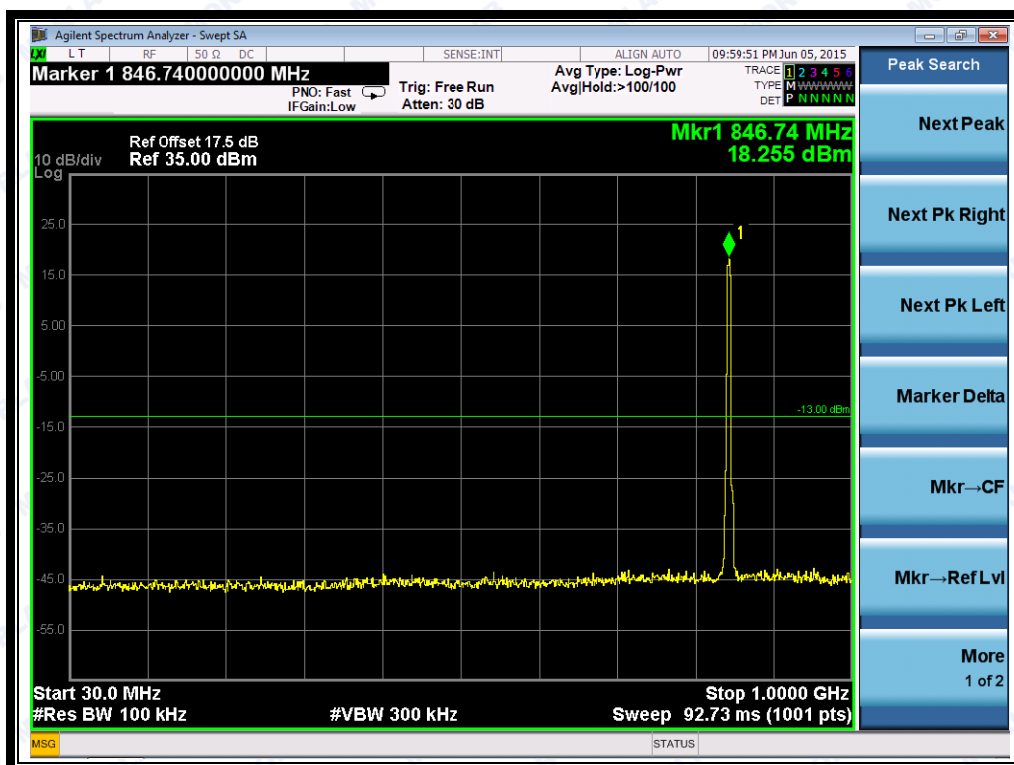
(Plot I2: HSDPA 850MHz Channel = 4175, 30MHz to 1GHz)



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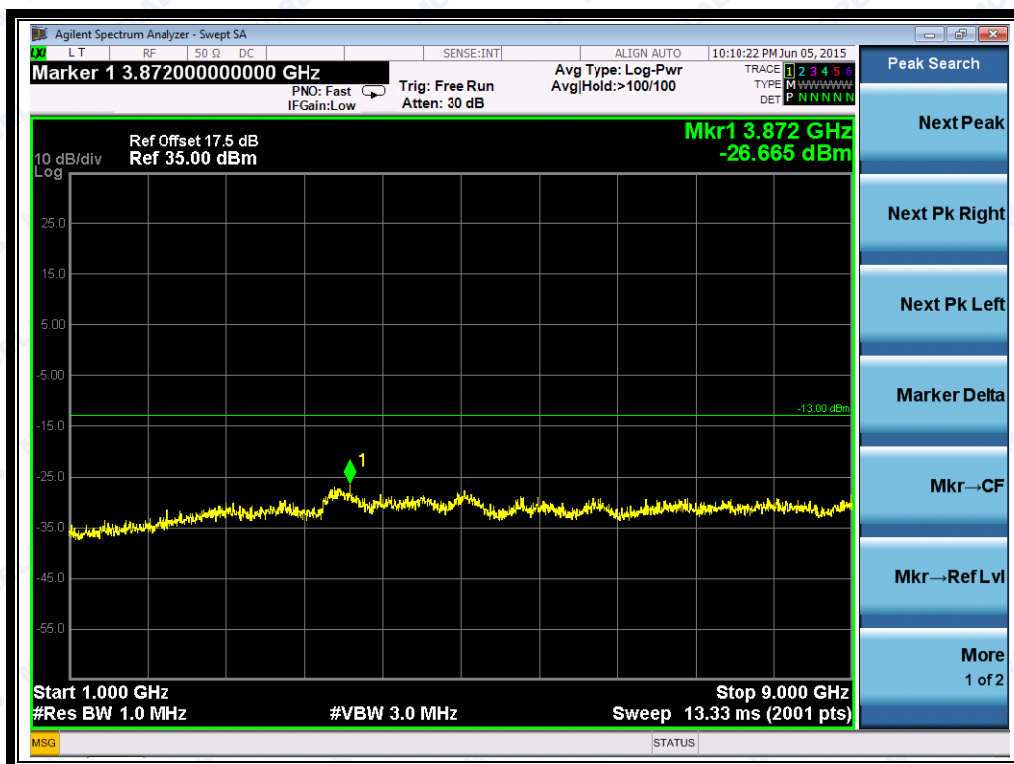
(Plot I2.1: HSDPA 850MHz Channel = 4175, 1GHz to 9GHz)



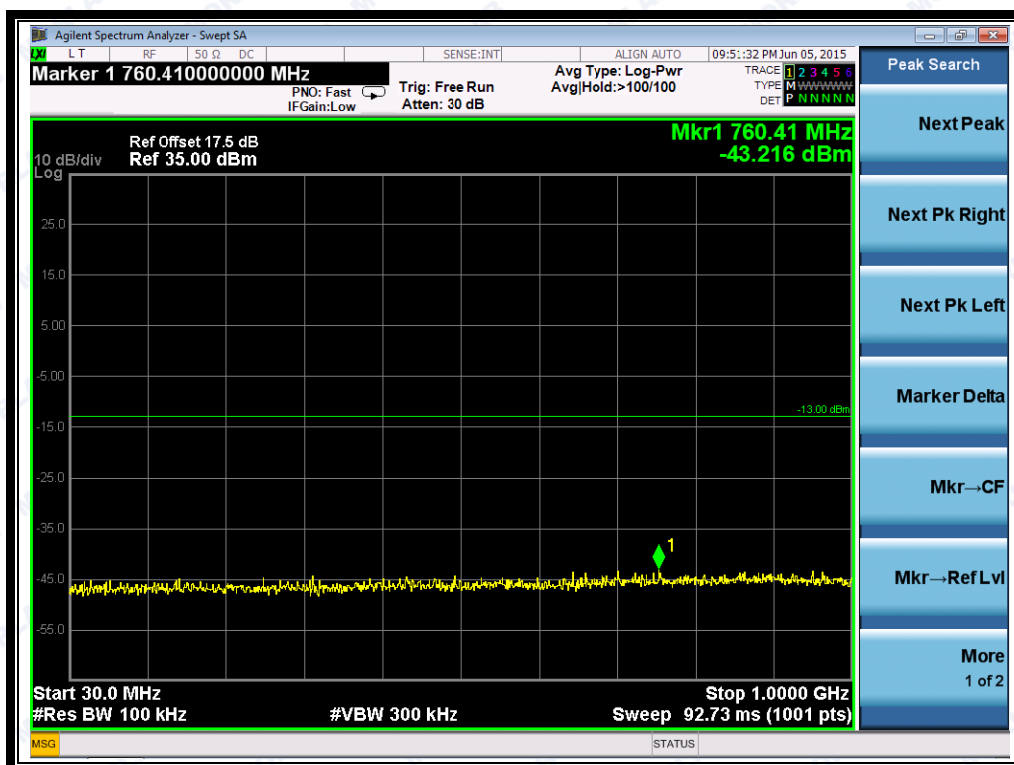
(Plot I3: HSDPA 850MHz Channel = 4233, 30MHz to 1GHz)



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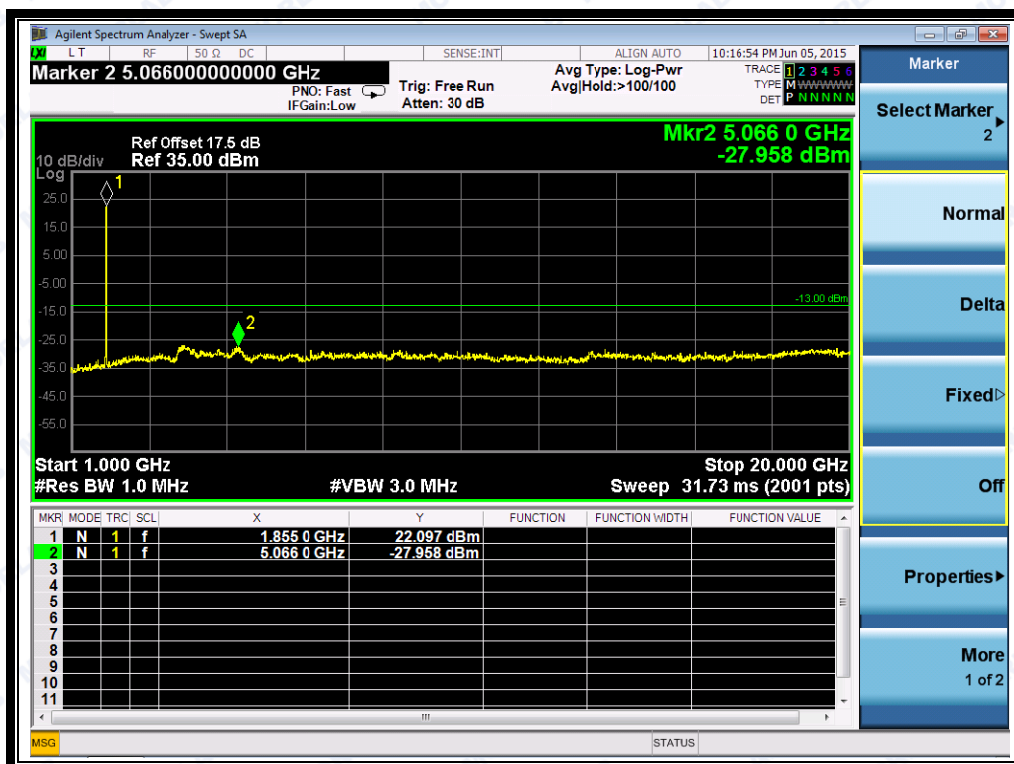
(Plot I3.1: HSDPA 850MHz Channel = 4233, 1GHz to 9GHz)



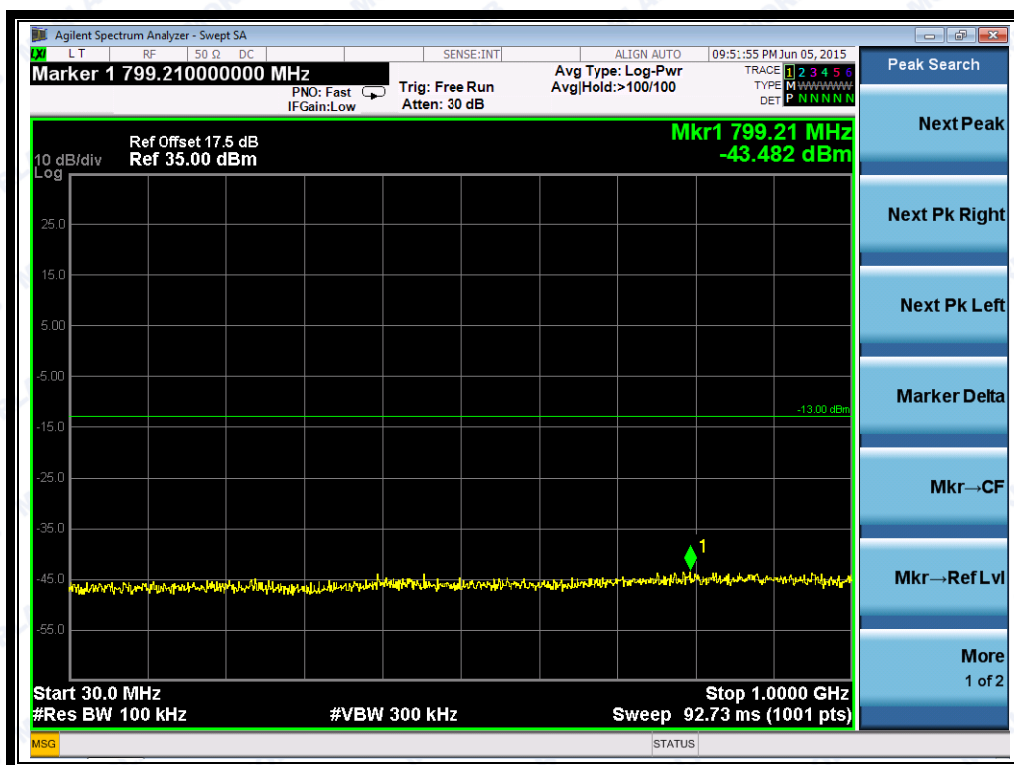
(Plot J1: HSDPA 1900MHz Channel = 9262, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



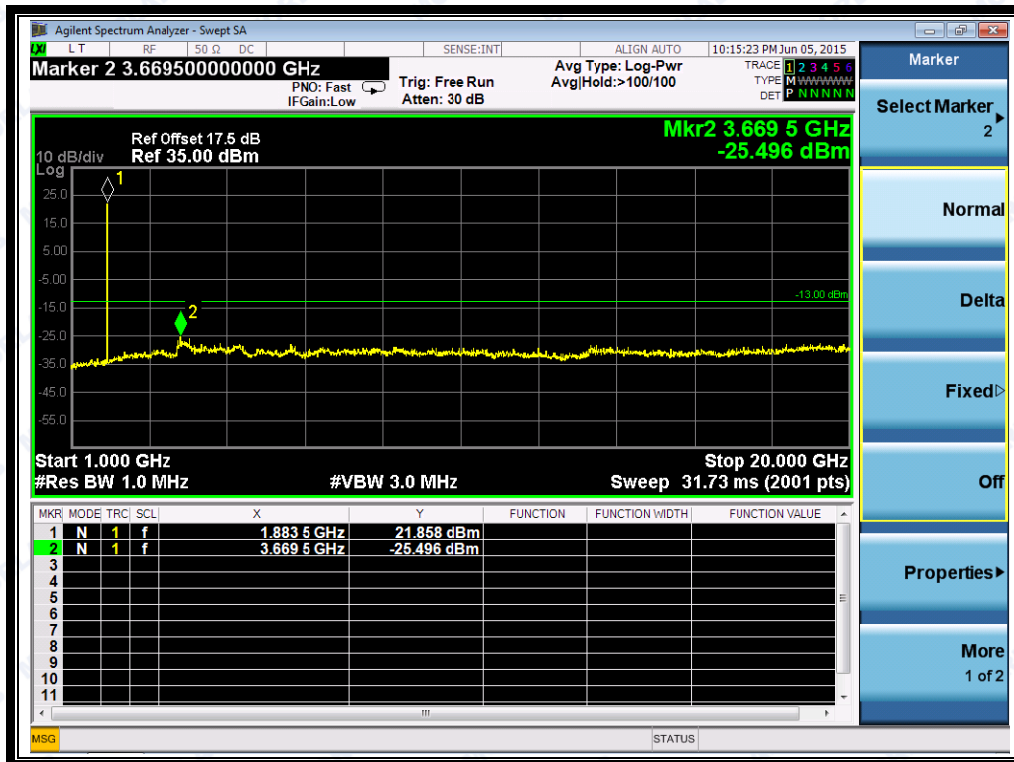
(Plot J1.1: HSDPA 1900MHz Channel = 9262, 1GHz to 20GHz)



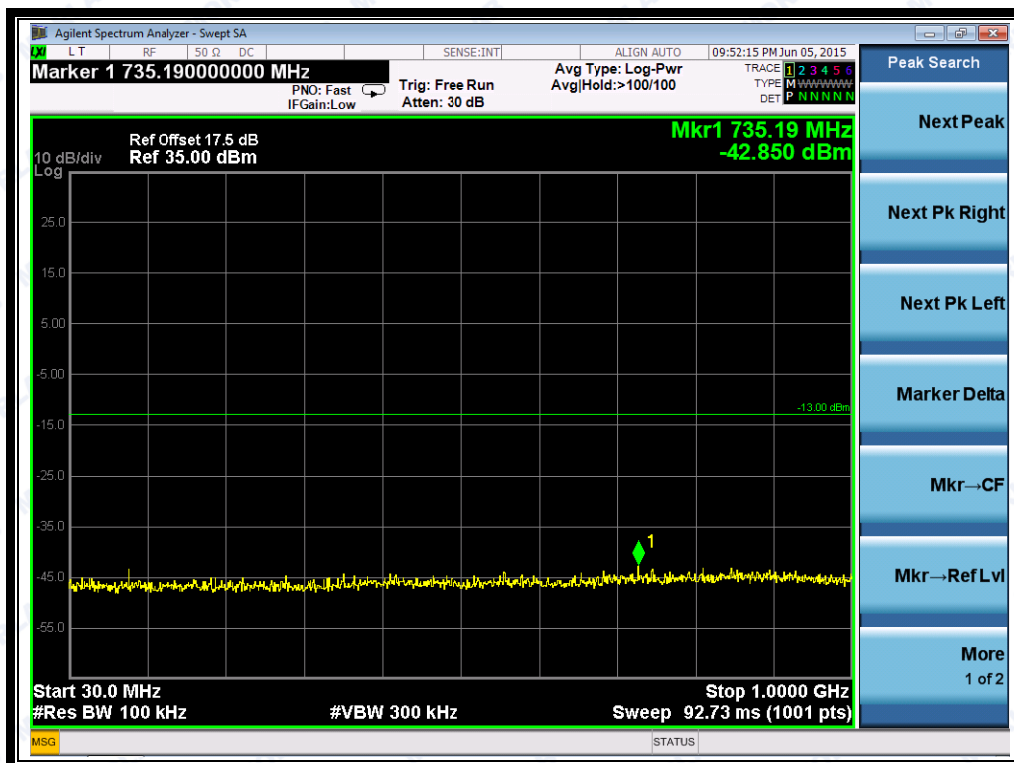
(Plot J2: HSDPA 1900MHz Channel = 9400, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



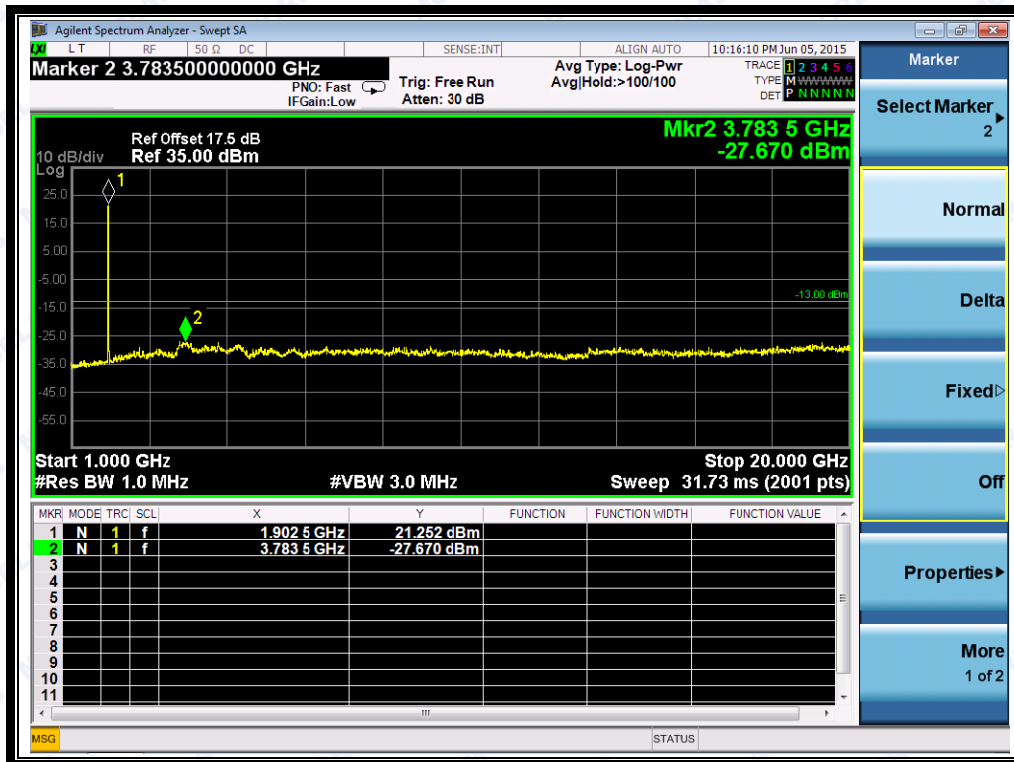
(Plot J2.1: HSDPA1900MHz Channel = 9400, 1GHz to 20GHz)



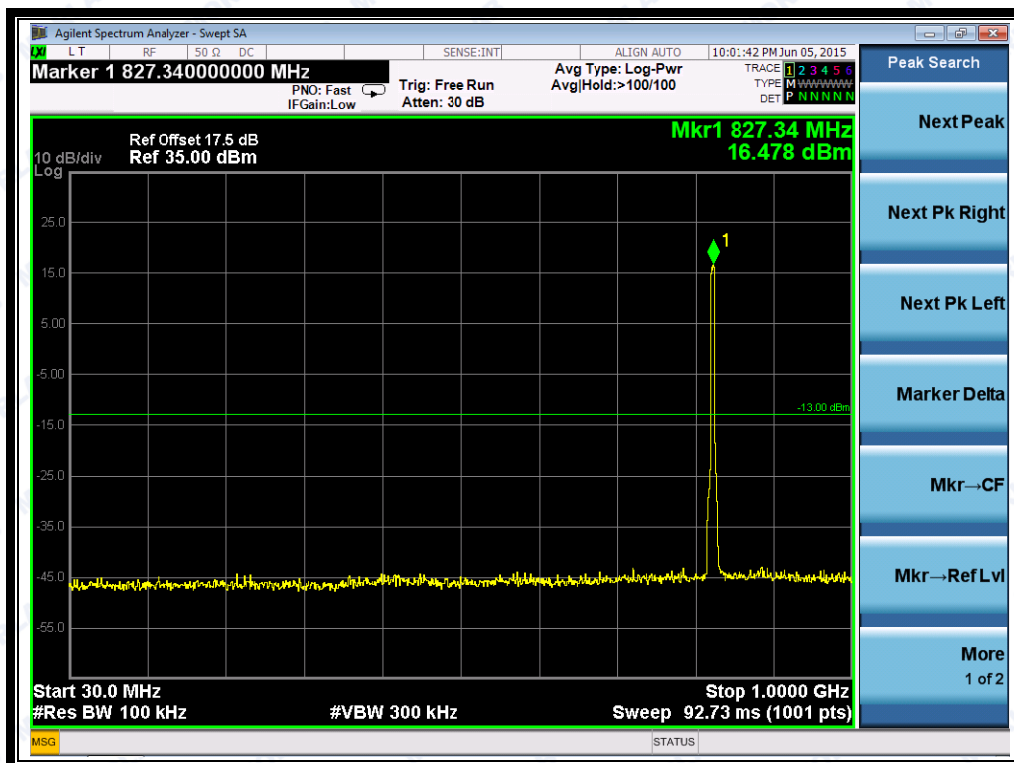
(Plot J3: HSDPA1900MHz Channel = 9538, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



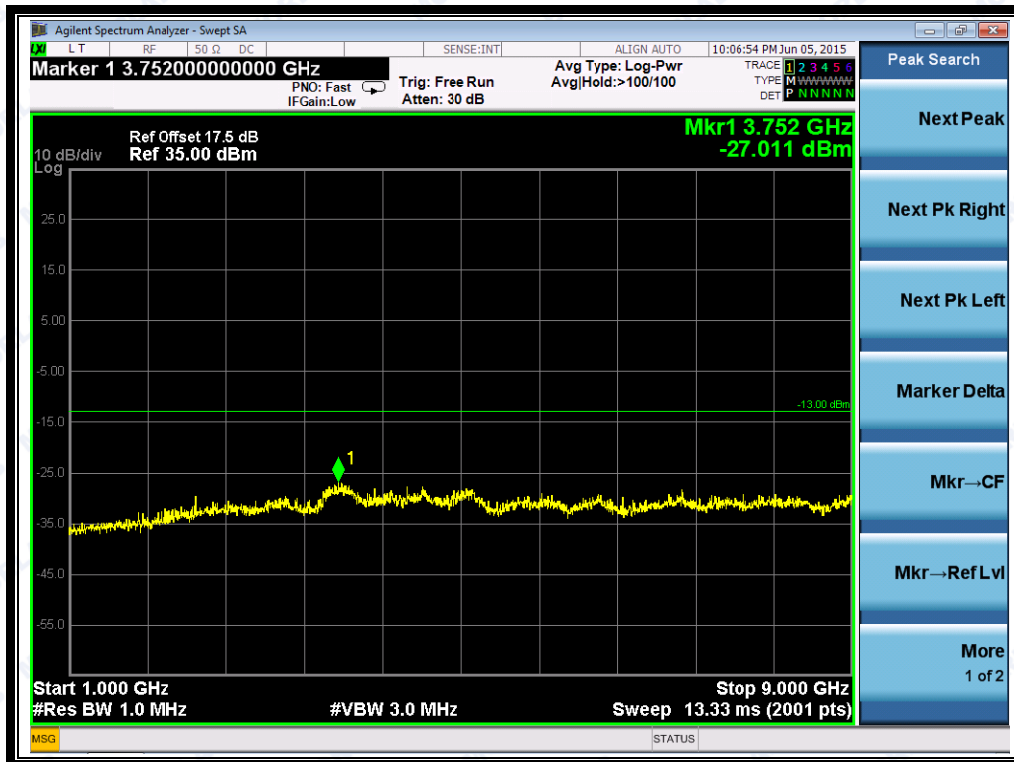
(Plot J3.1: HSDPA1900MHz Channel = 9538 1GHz to 20GHz)



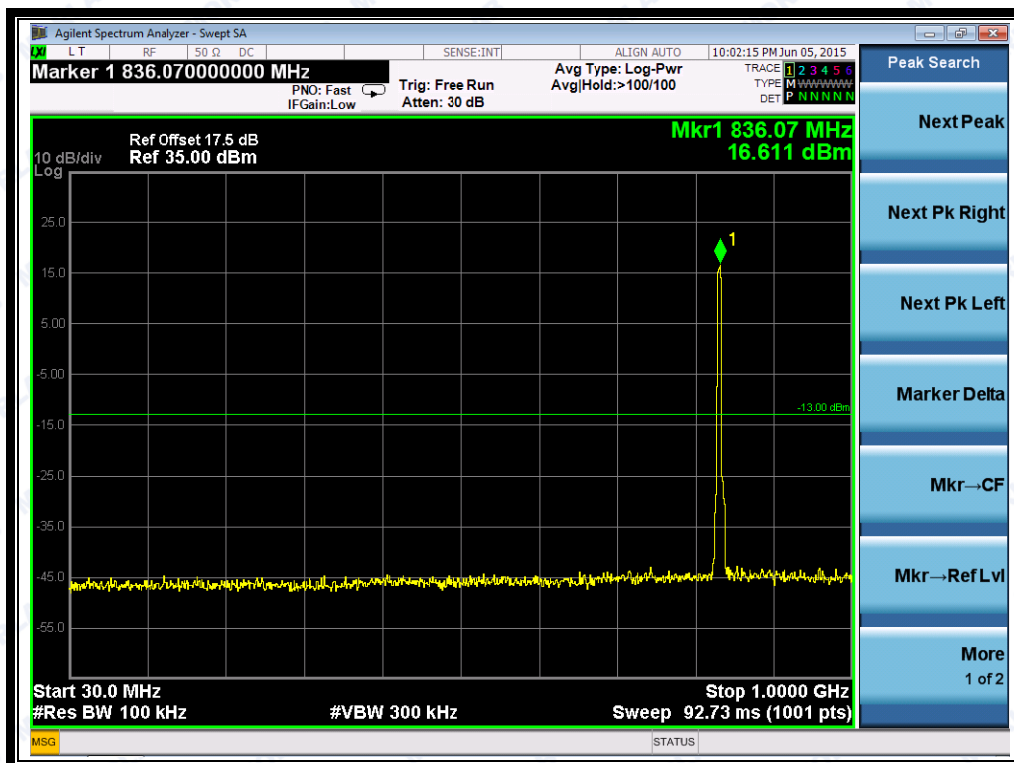
(Plot K1: HSUPA 850MHz Channel = 4132, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



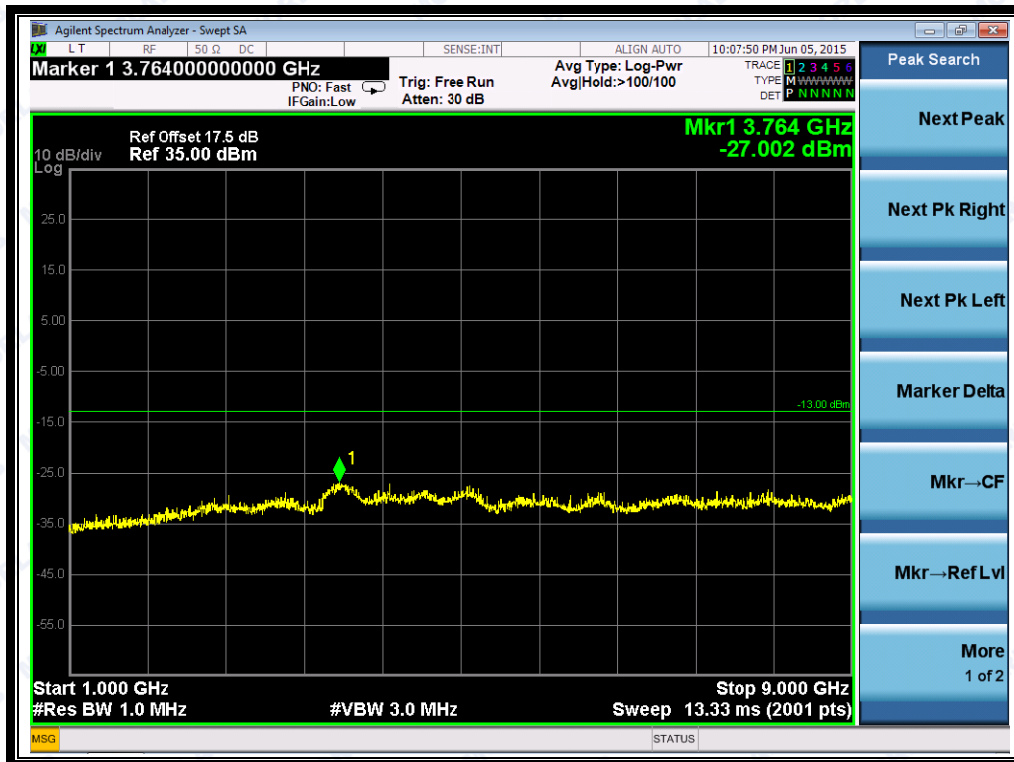
(Plot K1.1: HSUPA 850MHz Channel = 4132, 1GHz to 9GHz)



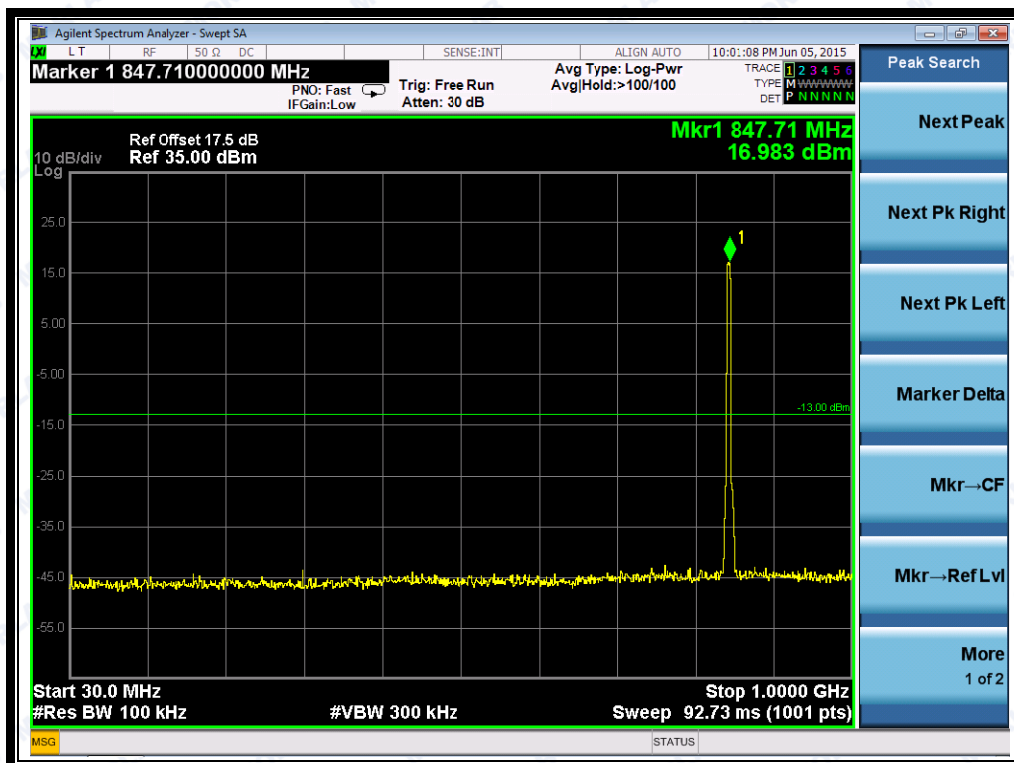
(Plot K2: HSUPA 850MHz Channel = 4175, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



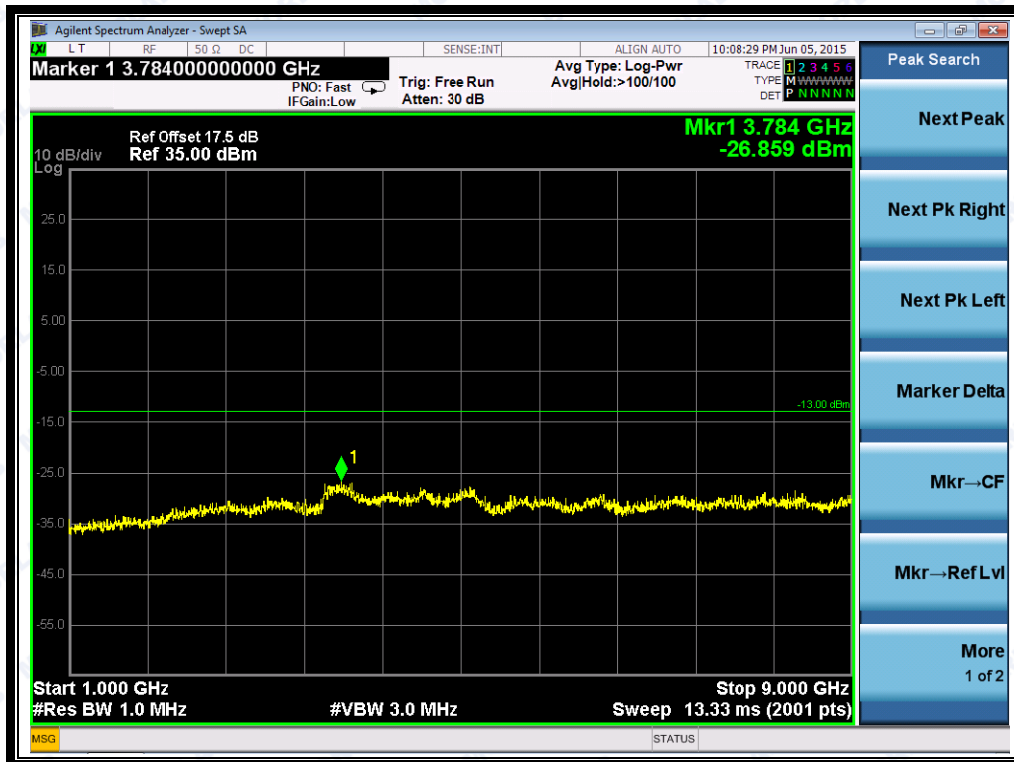
(Plot K2.1: HSUPA 850MHz Channel = 4175, 1GHz to 9GHz)



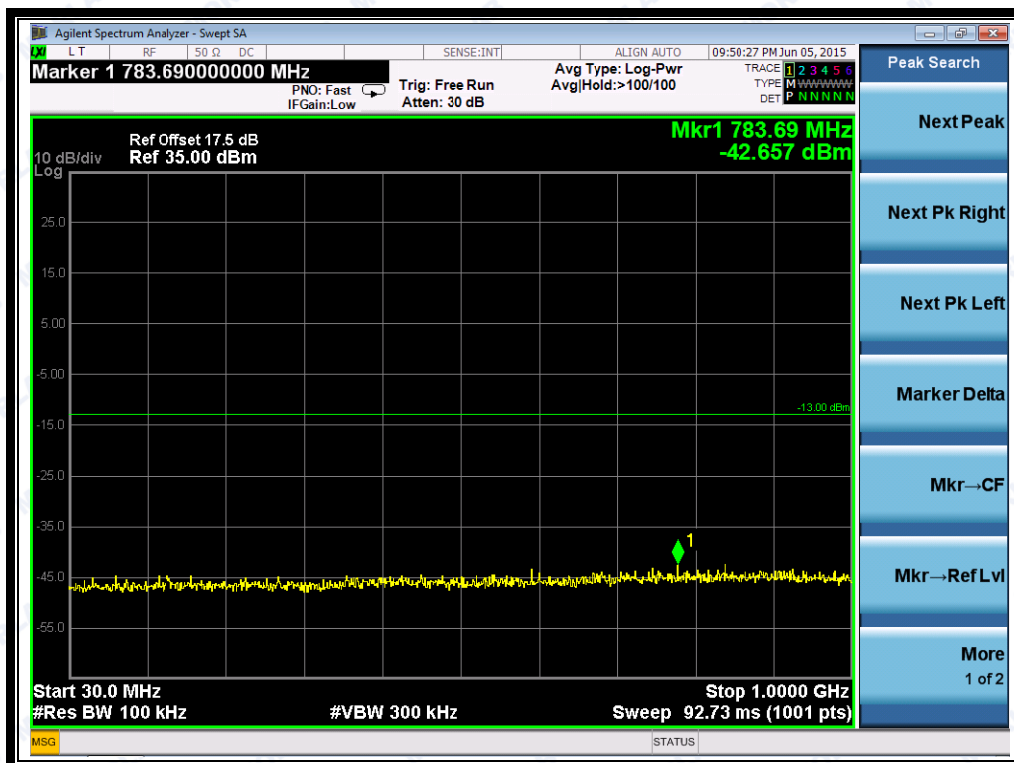
(Plot K3: HSUPA 850MHz Channel = 4233, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



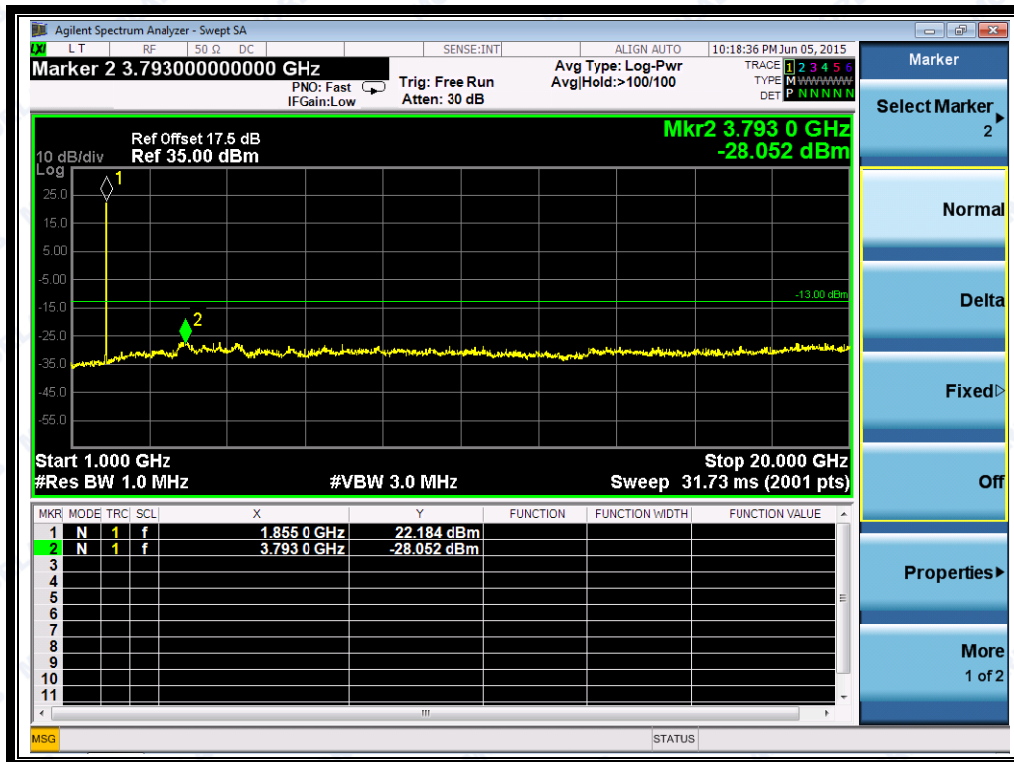
(Plot K3.1: HSUPA 850MHz Channel = 4233, 1GHz to 9GHz)



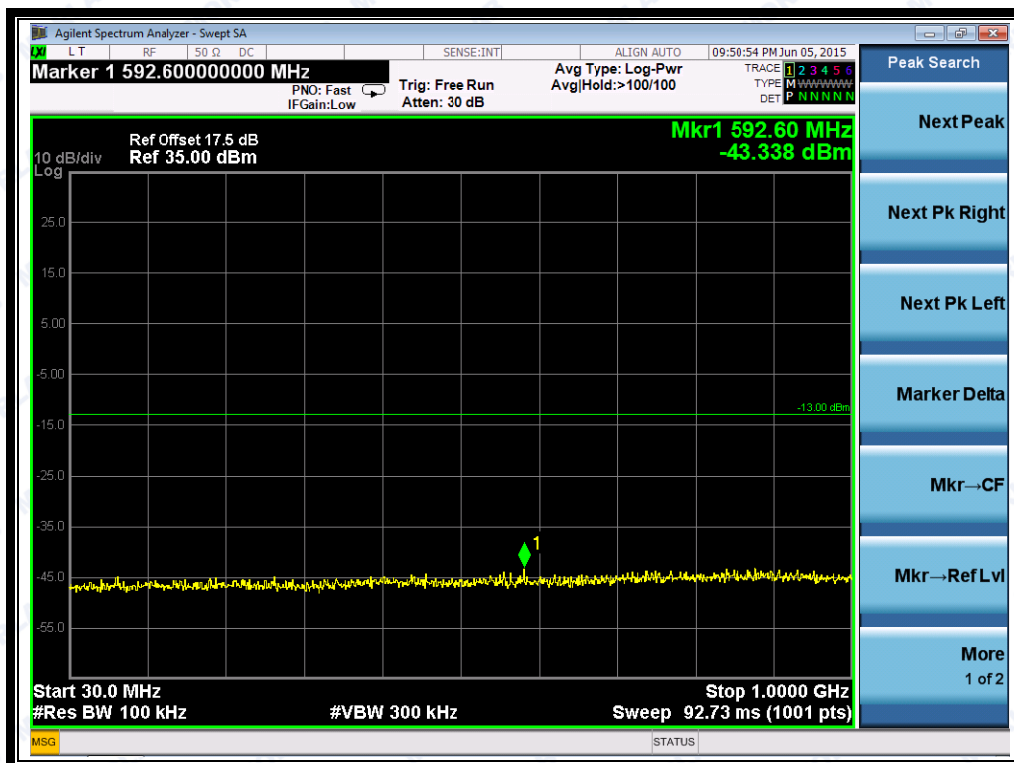
(Plot L1: HSUPA 1900MHz Channel = 9262, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



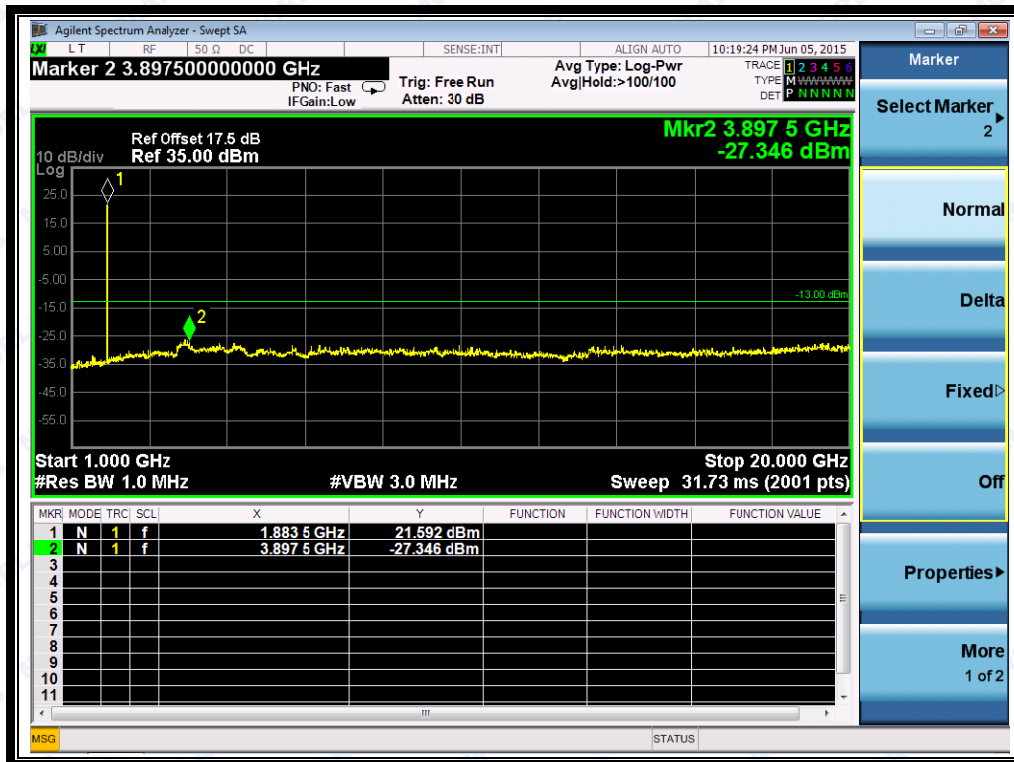
(Plot L1.1: HSUPA 1900MHz Channel = 9262, 1GHz to 20GHz)



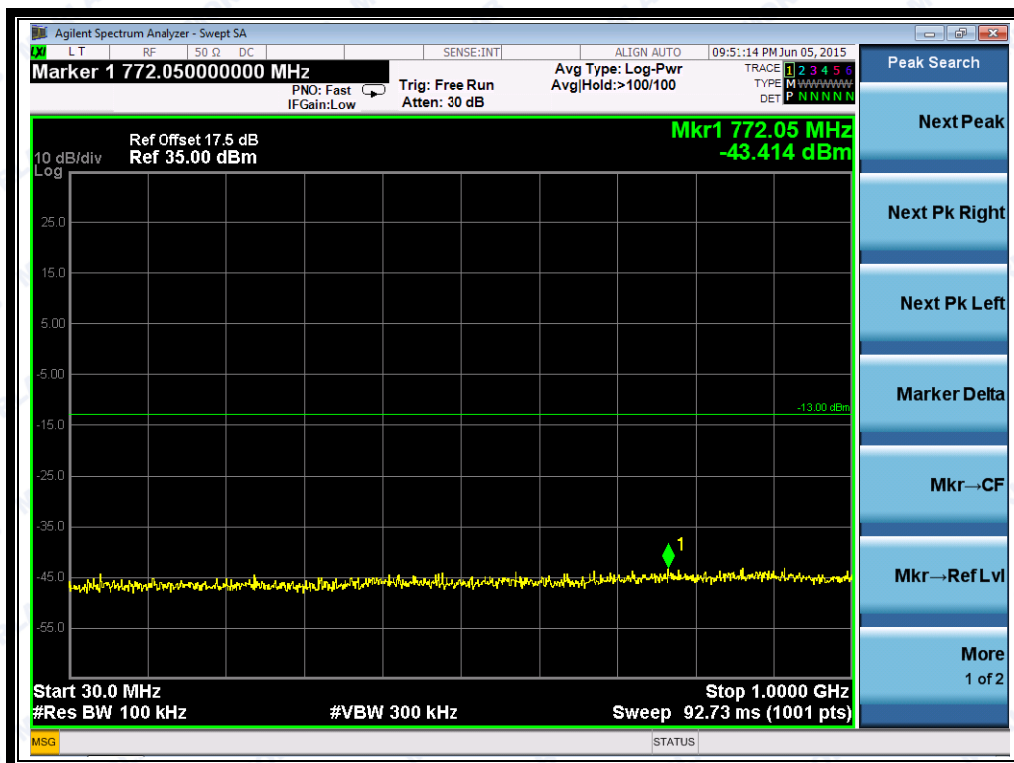
(Plot L2: HSUPA 1900MHz Channel = 9400, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



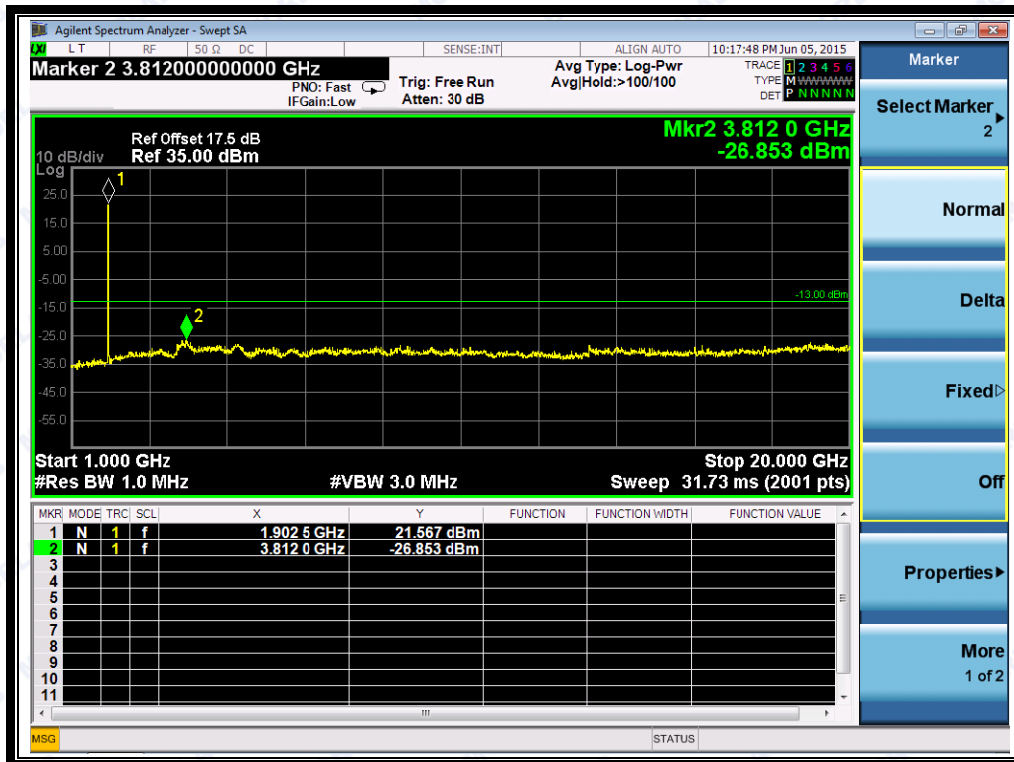
(Plot L2.1: HSUPA1900MHz Channel = 9400, 1GHz to 20GHz)



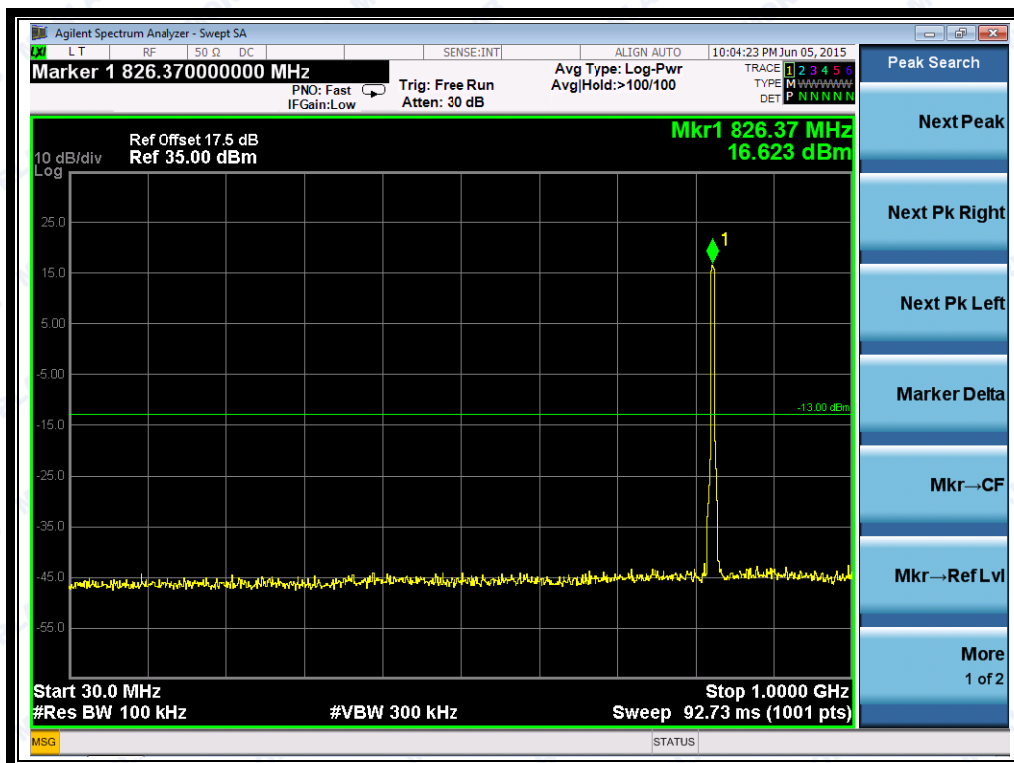
(Plot L3: HSUPA1900MHz Channel = 9538, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



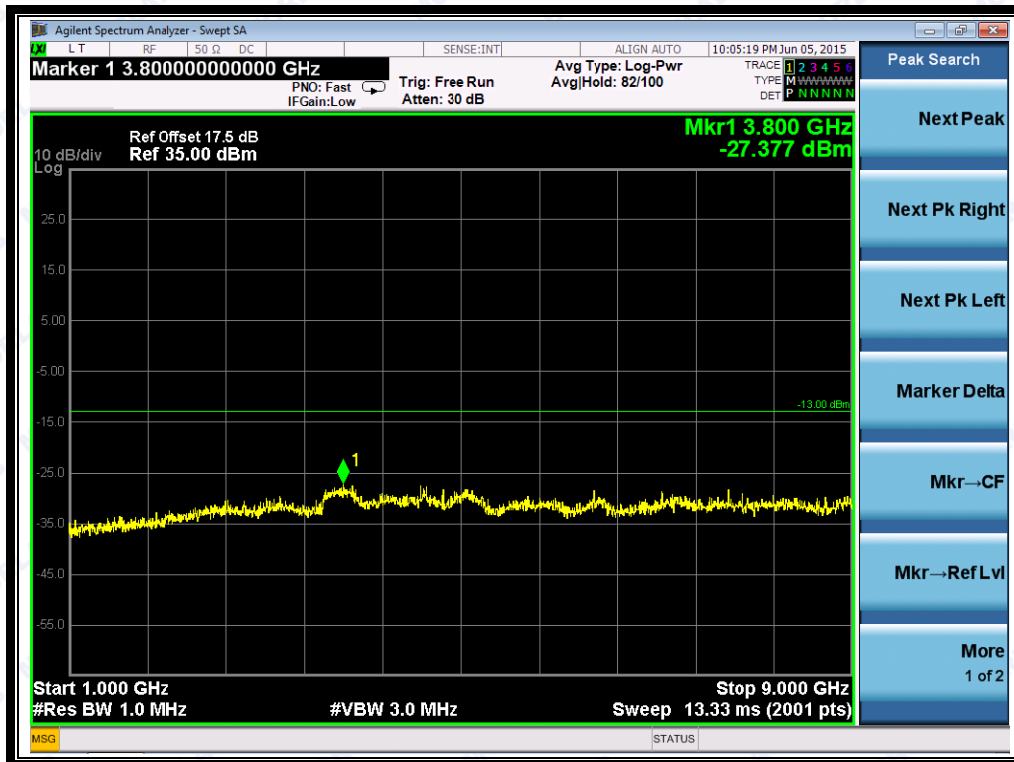
(Plot L3.1: HSUPA1900MHz Channel = 9538 1GHz to 20GHz)



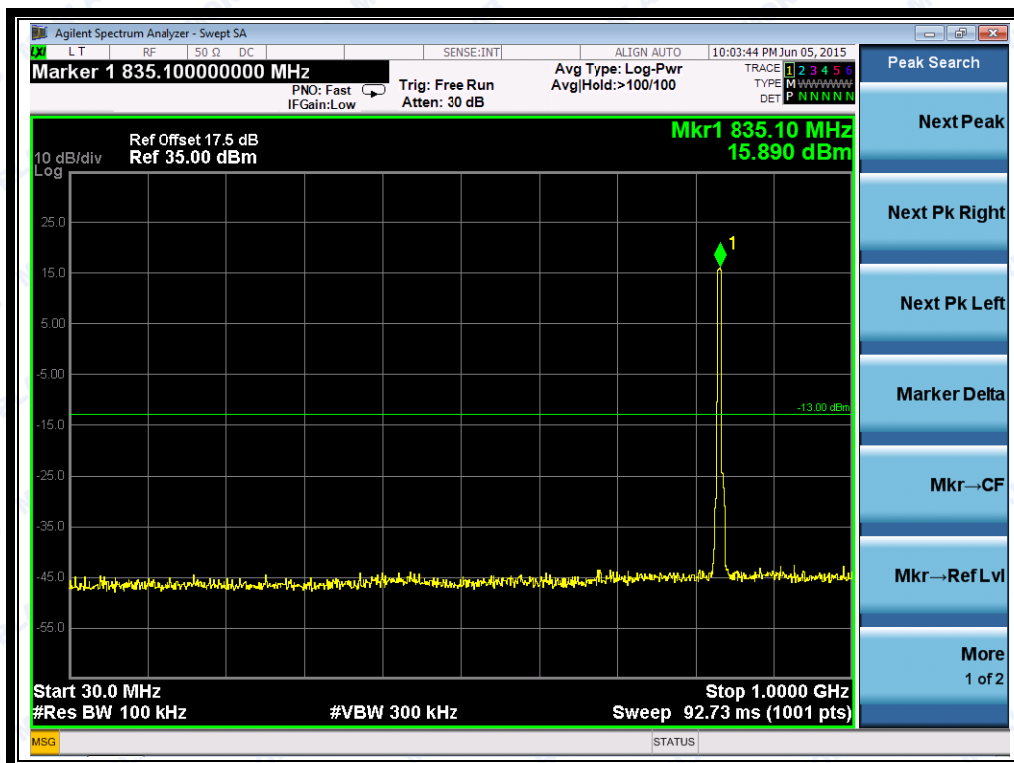
(Plot M1: HSPA+ 850MHz Channel = 4132, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



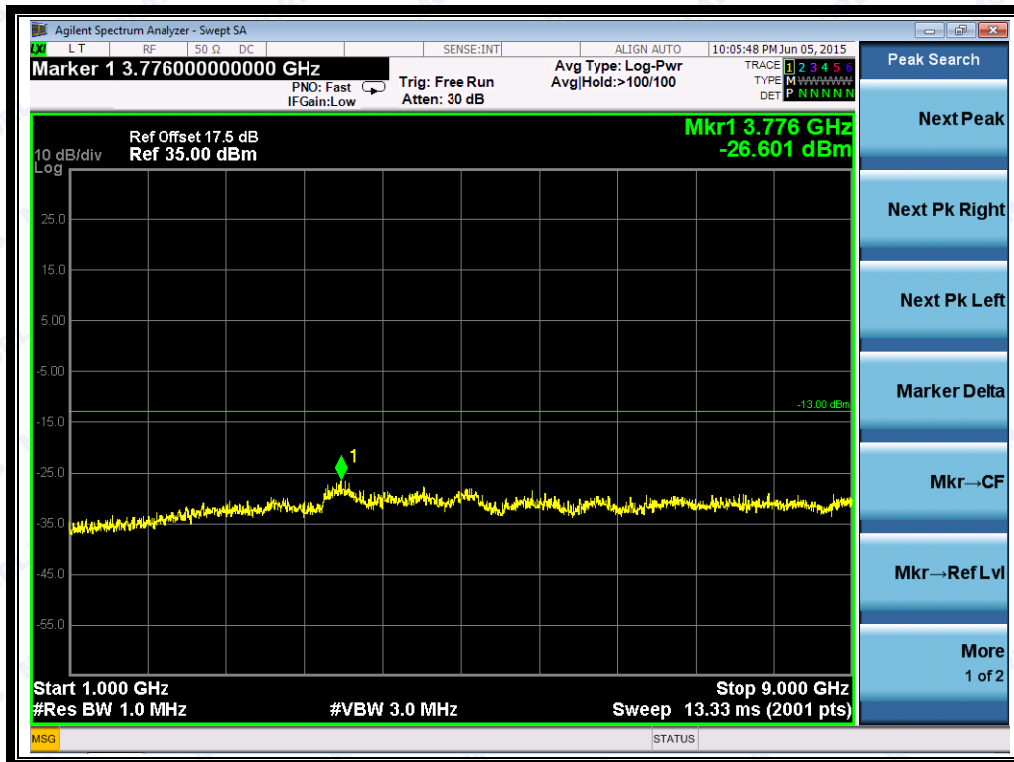
(Plot M1.1: HSPA+ 850MHz Channel = 4132, 1GHz to 9GHz)



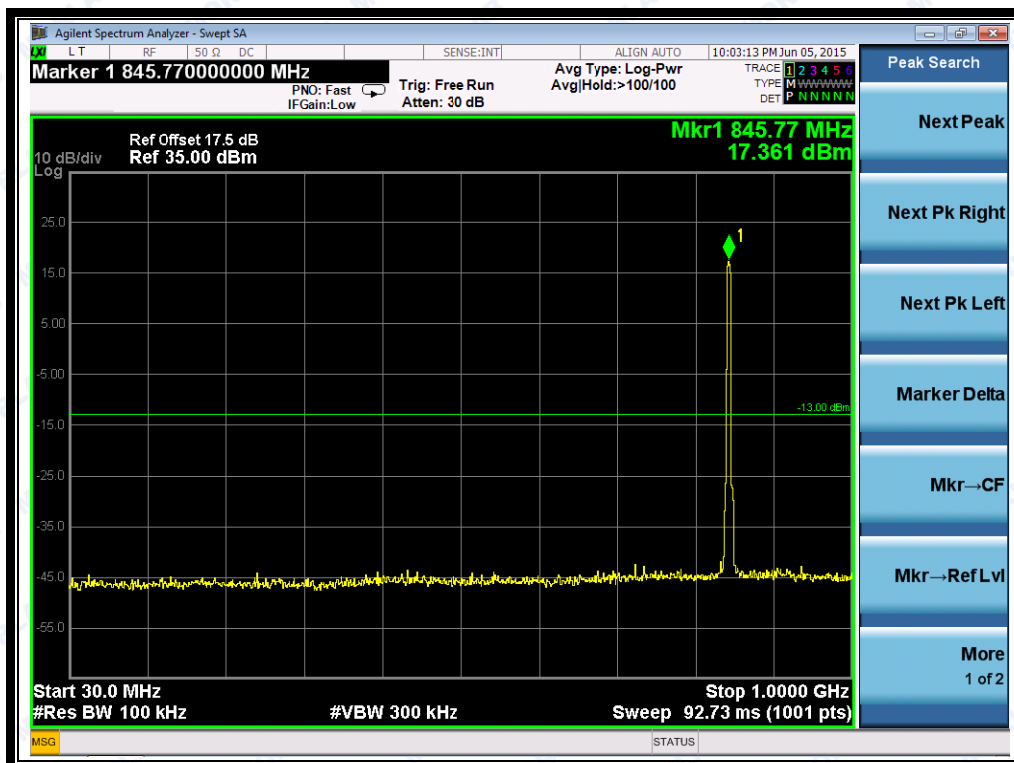
(Plot M2: HSPA+ 850MHz Channel = 4175, 30MHz to 1GHz)



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(Plot M2.1: HSPA+ 850MHz Channel = 4175, 1GHz to 9GHz)



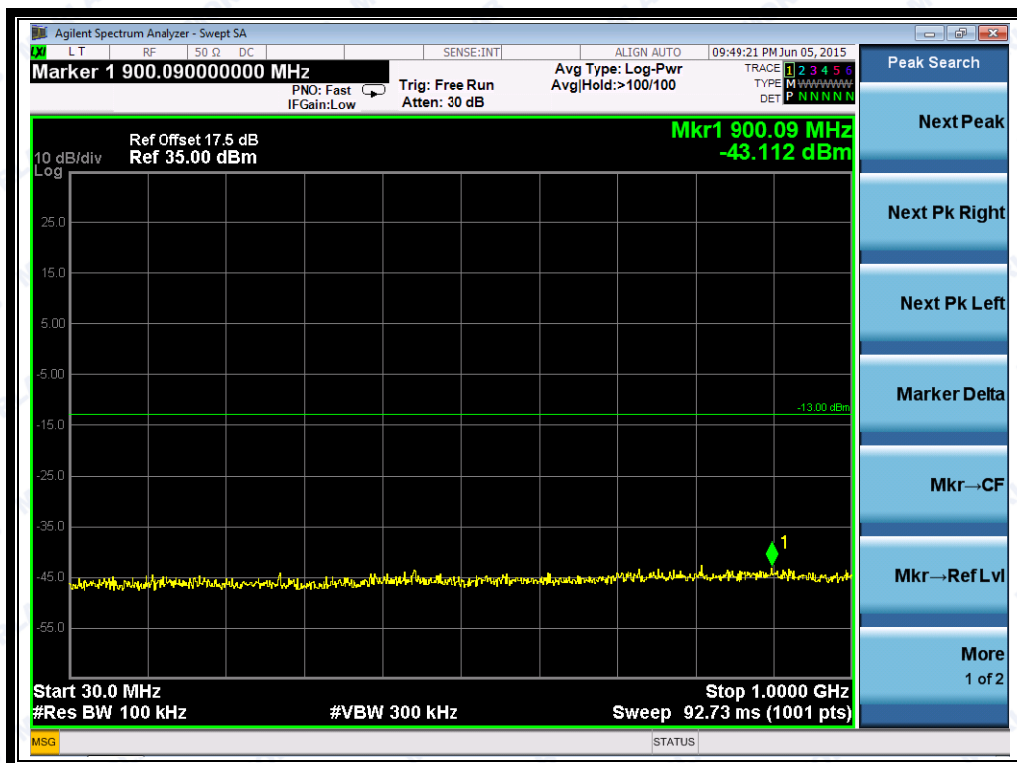
(Plot M3: HSPA+ 850MHz Channel = 4233, 30MHz to 1GHz)



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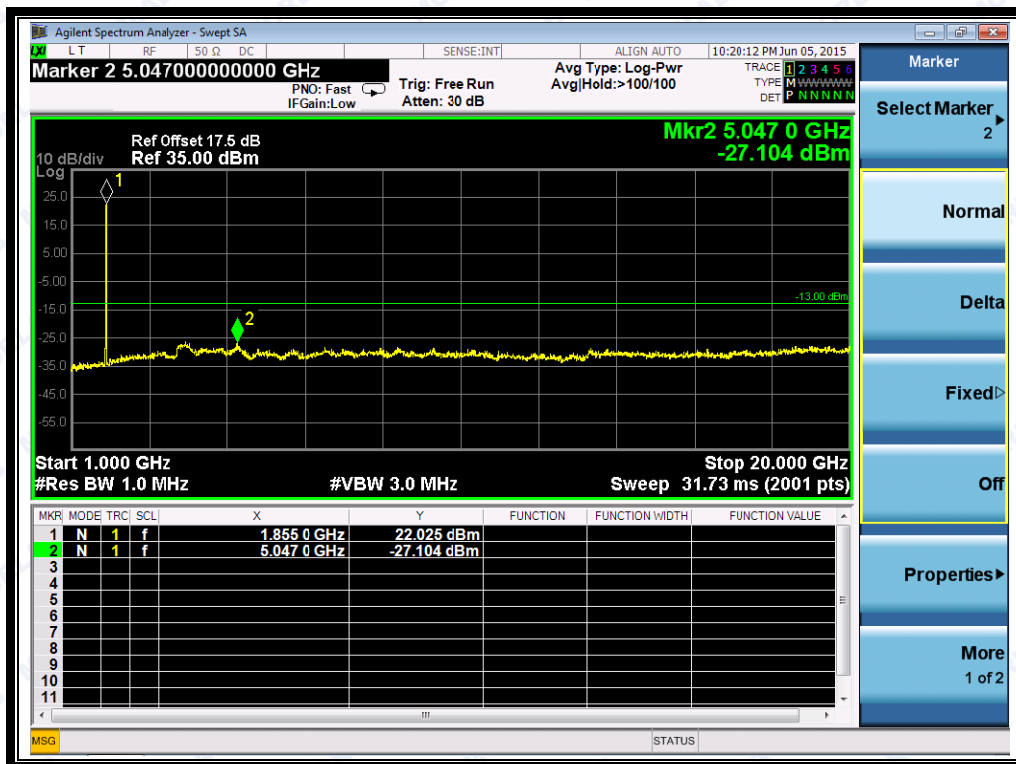
(Plot M3.1: HSPA+ 850MHz Channel = 4233, 1GHz to 9GHz)



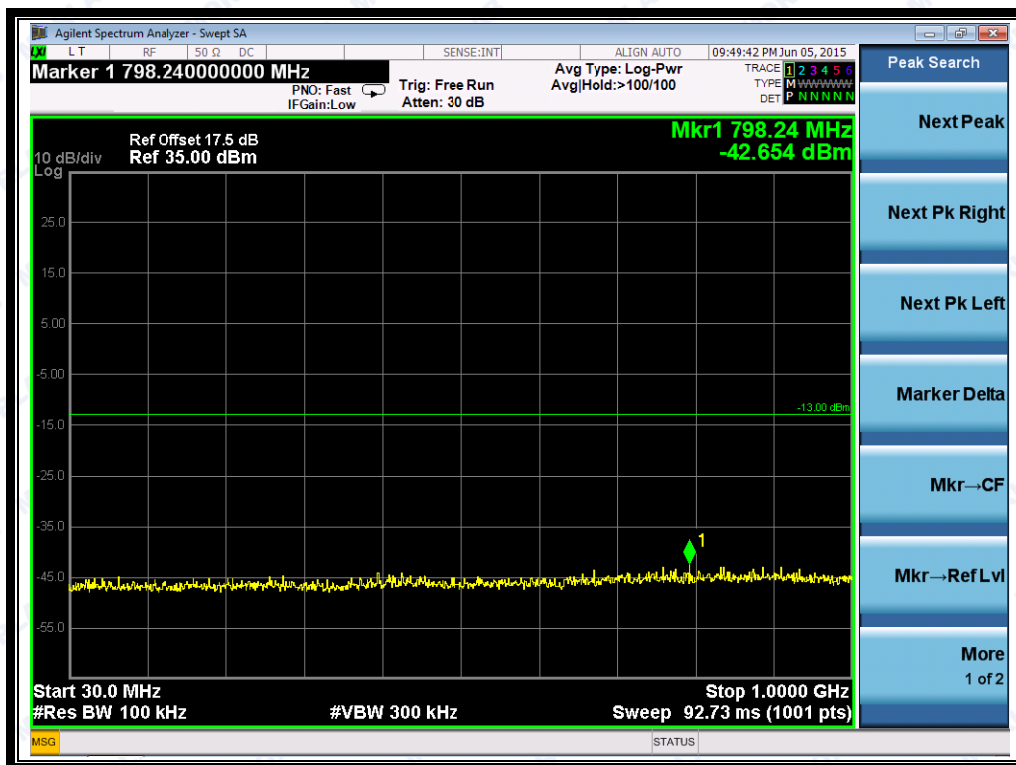
(Plot N1: HSPA+ 1900MHz Channel = 9262, 30MHz to 1GHz)



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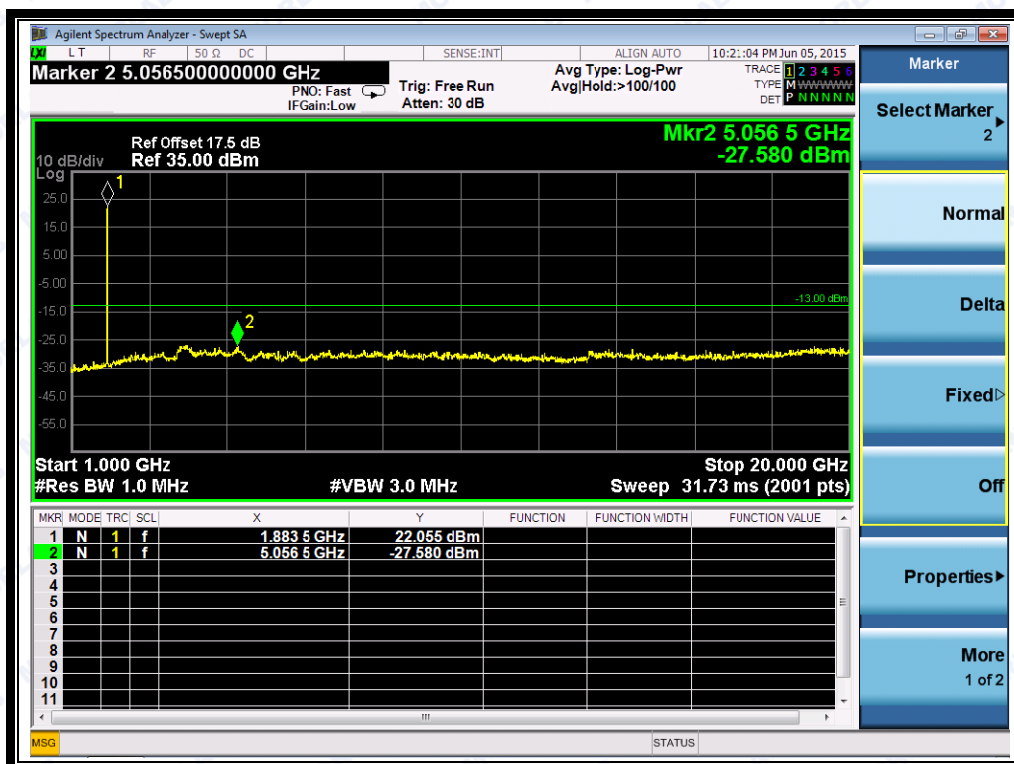
(Plot N1.1: HSPA+ 1900MHz Channel = 9262, 1GHz to 20GHz)



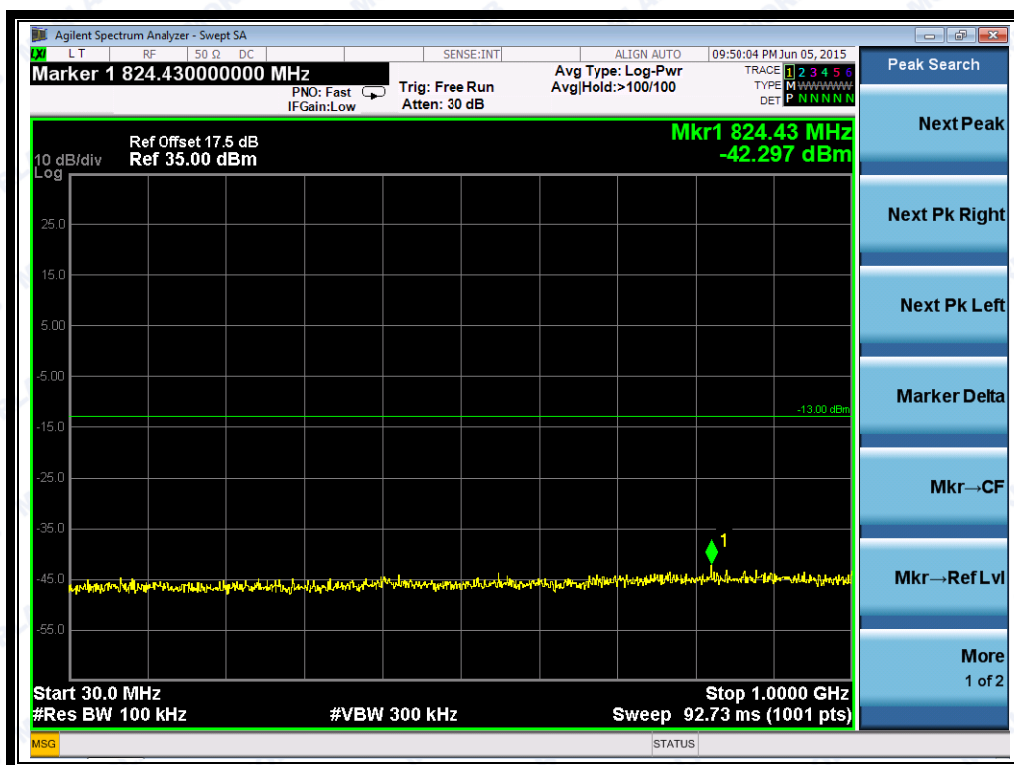
(Plot N2: HSPA+ 1900MHz Channel = 9400, 30MHz to 1GHz)



REPORT No.: SZ15050187W01



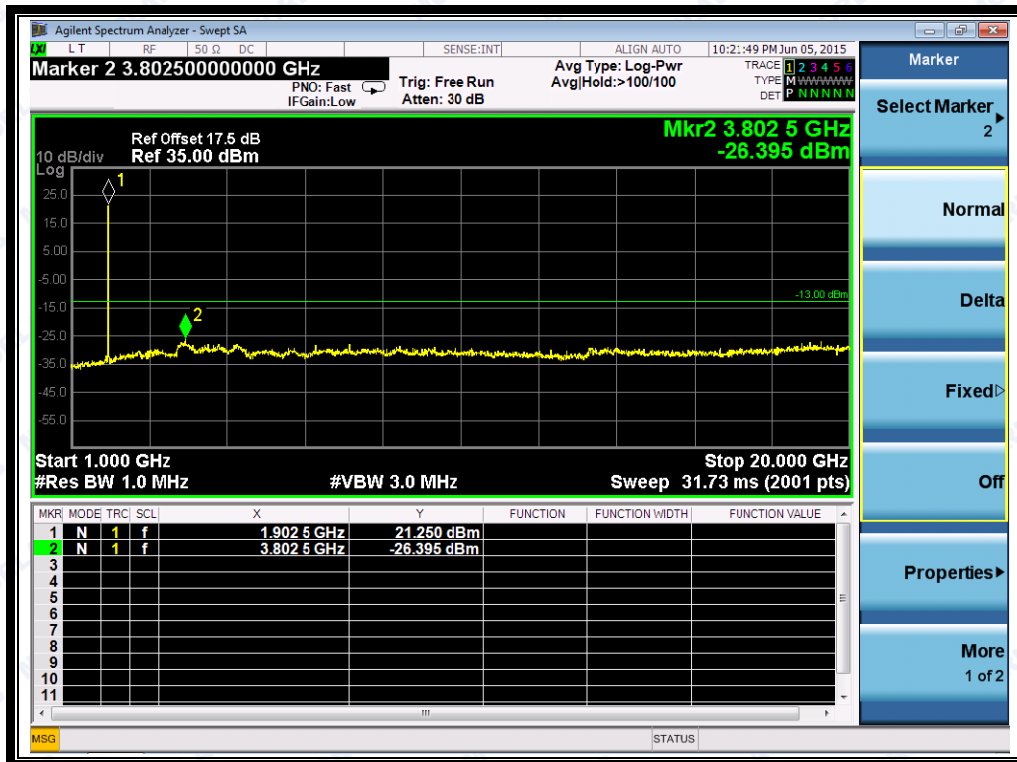
(Plot N2.1: HSPA+ 1900MHz Channel = 9400, 1GHz to 20GHz)



(Plot N3: HSPA+ 1900MHz Channel = 9538, 30MHz to 1GHz)



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(Plot N3.1: HSPA+ 1900MHz Channel = 9538 1GHz to 20GHz)



2.6 Band Edge

2.6.1 Requirement

According to FCC section 22.917(b) and FCC section 24.238(b) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

2.6.2 Test Description

See section 2.1.2 of this report.

2.6.3 Test Result

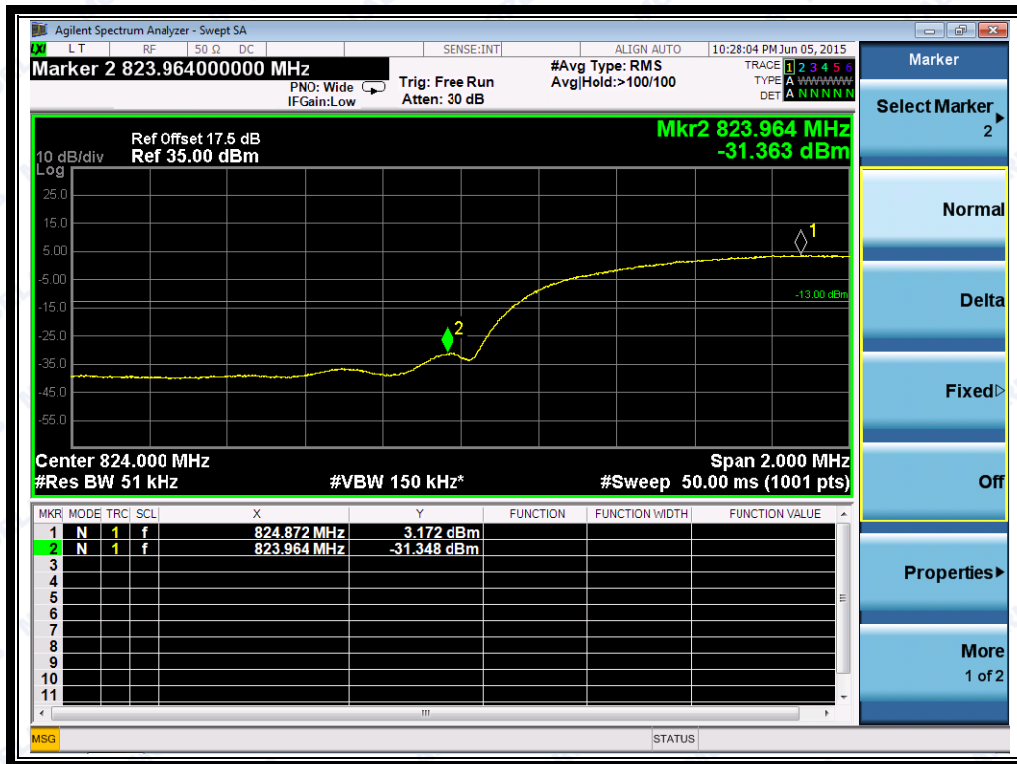
The lowest and highest channels are tested to verify the band edge emissions.

Test Verdict:

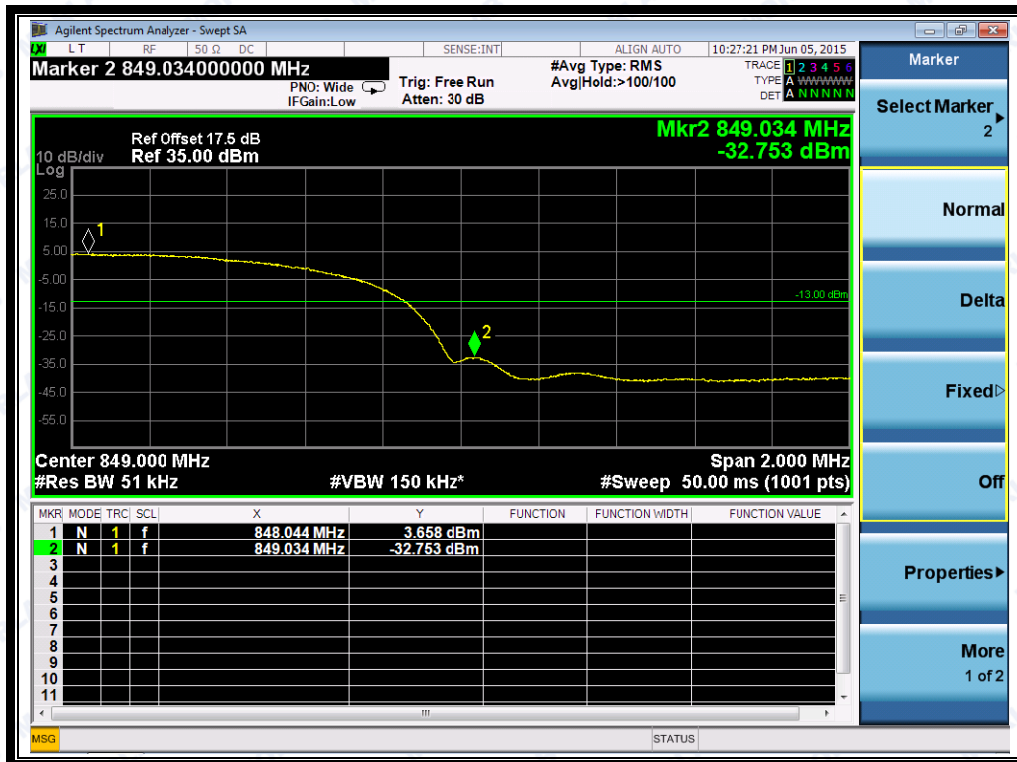
Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
WCDMA 850MHz	4132	826.4	-31.35	Plat E1	-13	PASS
	4233	846.6	-32.75	Plot E2		PASS
WCDMA 1900MHz	9262	1852.4	-27.95	Plat F1	-13	PASS
	9538	1907.6	-30.66	Plot F2		PASS
HSDPA 850MHz	4132	826.4	-31.24	Plat G1	-13	PASS
	4233	846.6	-32.87	Plot G2		PASS
HSDPA 1900MHz	9262	1852.4	-27.93	Plat H1	-13	PASS
	9538	1907.6	-31.10	Plot H2		PASS
HSUPA 850MHz	4132	826.4	-31.54	Plat I1	-13	PASS
	4233	846.6	-32.52	Plot I2		PASS
HSUPA 1900MHz	9262	1852.4	-28.46	Plat J1	-13	PASS
	9538	1907.6	-31.11	Plot J2		PASS
HSPA+ 850MHz	4132	826.4	-31.43	Plat K1	-13	PASS
	4233	846.6	-32.84	Plot K2		PASS
HSPA + 1900MHz	9262	1852.4	-28.08	Plat L1	-13	PASS
	9538	1907.6	-30.75	Plot L2		PASS



Test Plots:



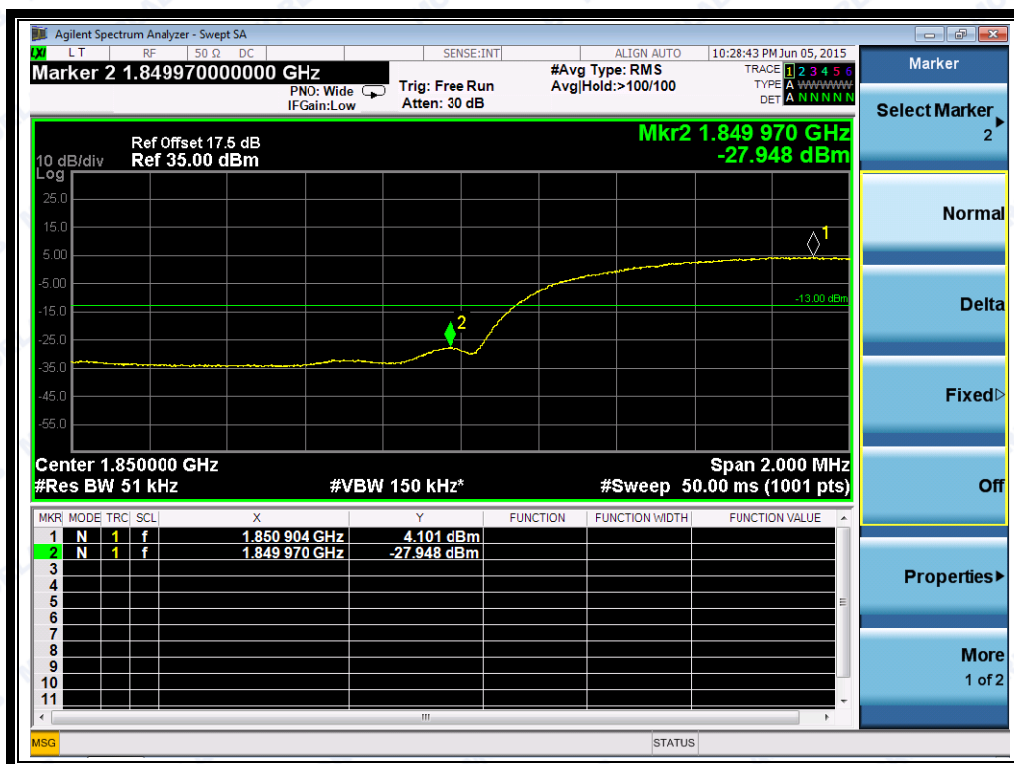
(Plot E1: WCDMA 850 Channel = 4132)



(Plot E2: WCDMA 850 Channel = 4233)



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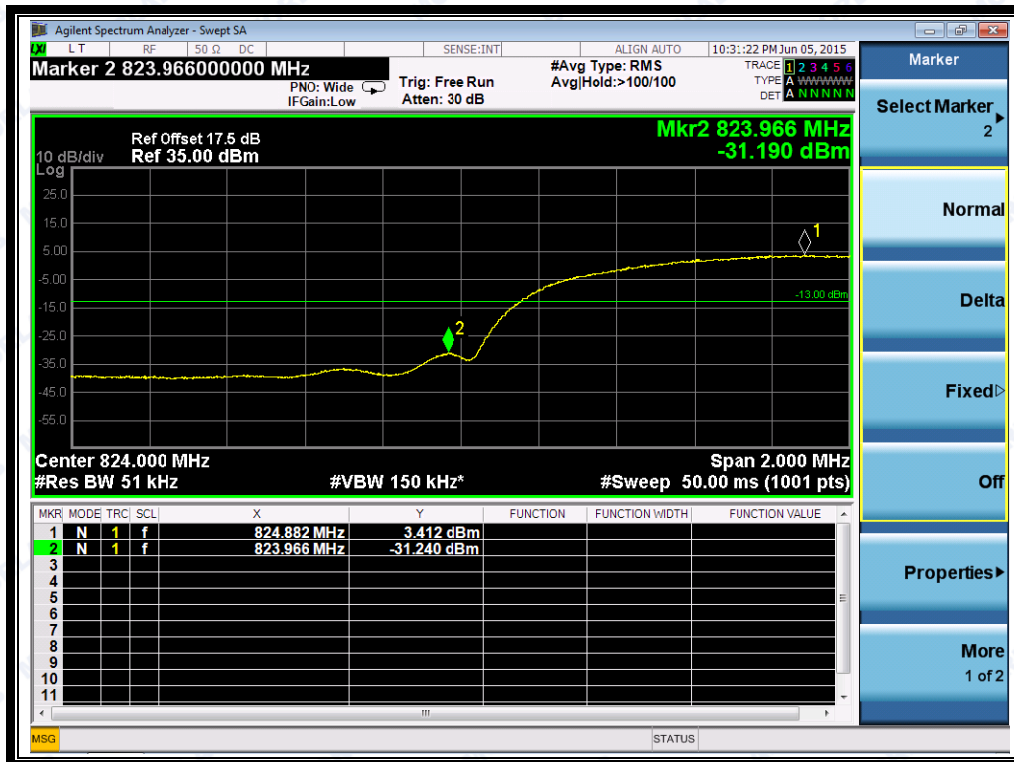
(Plot F1: WCDMA 1900 Channel = 9262)



(Plot F2: WCDMA 1900 Channel = 9538)



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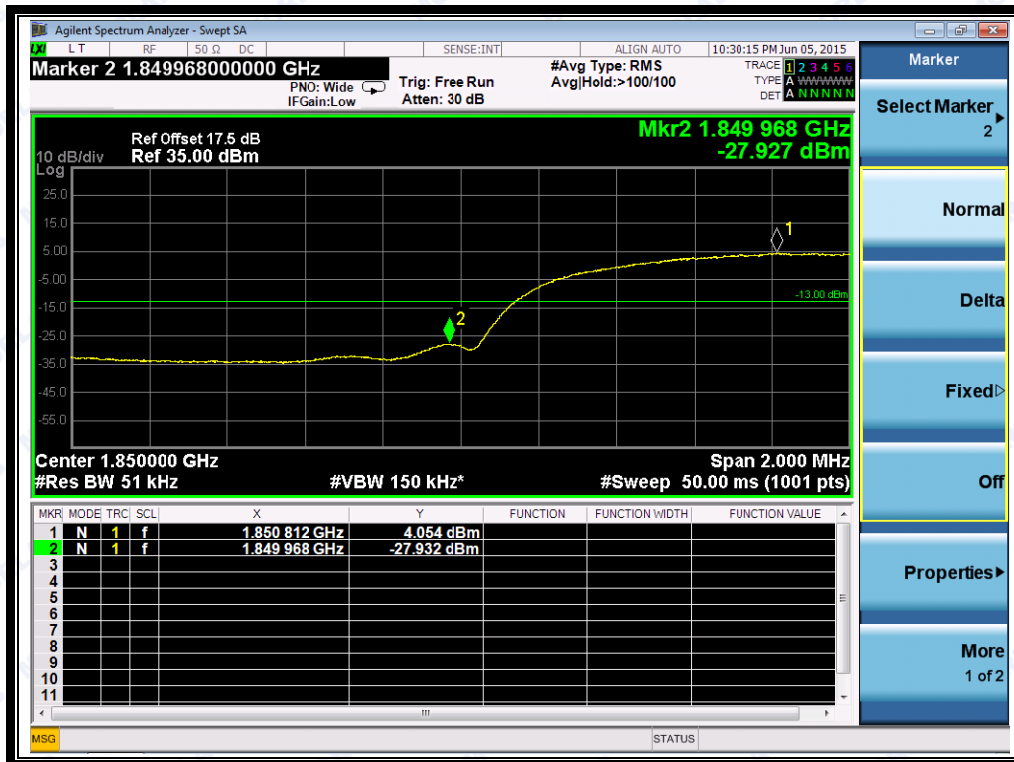
(Plot G1: HSDPA 850 Channel = 4132)



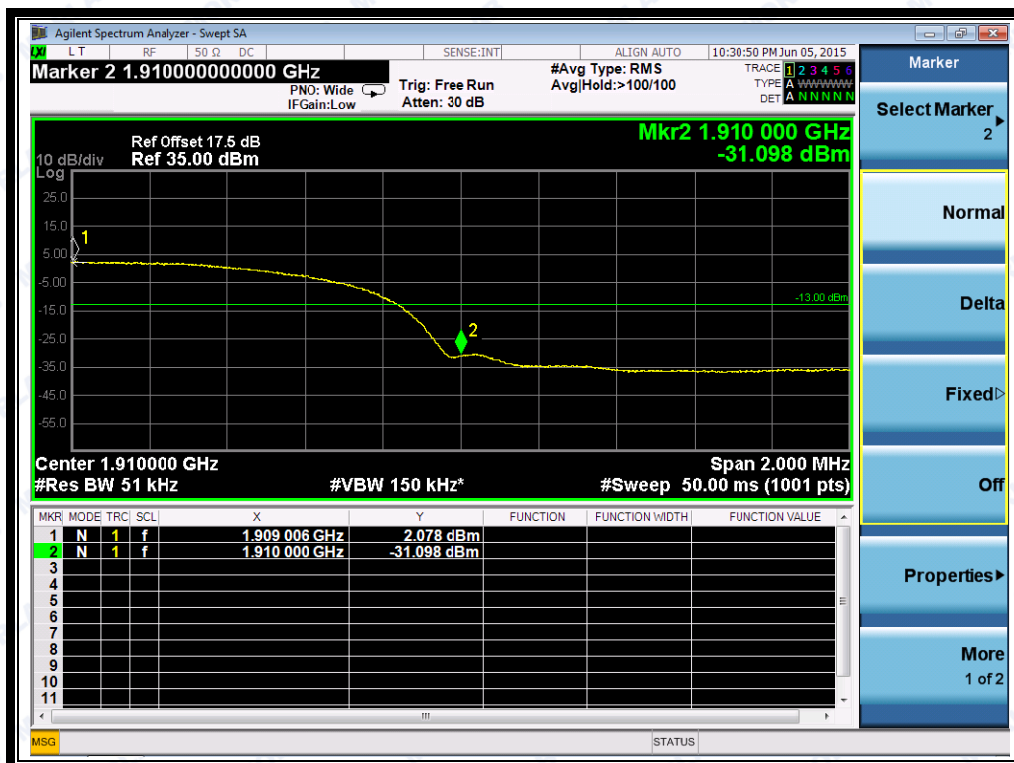
(Plot G2: HSDPA 850 Channel = 4233)



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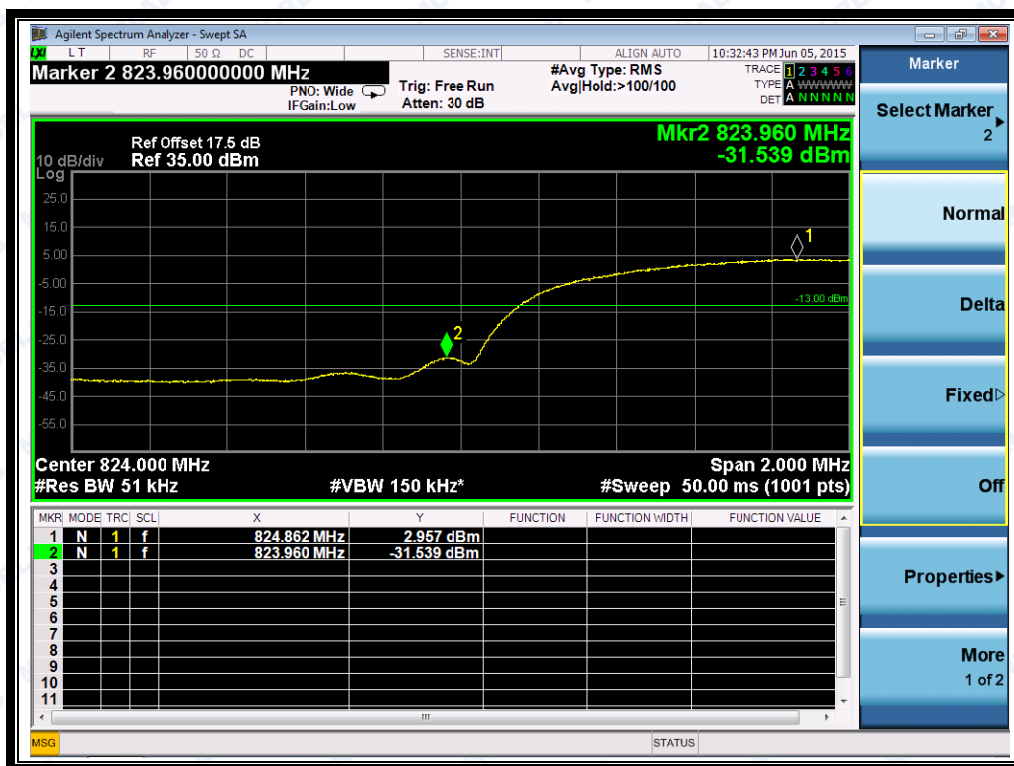
(Plot H1: HSDPA 1900 Channel = 9262)



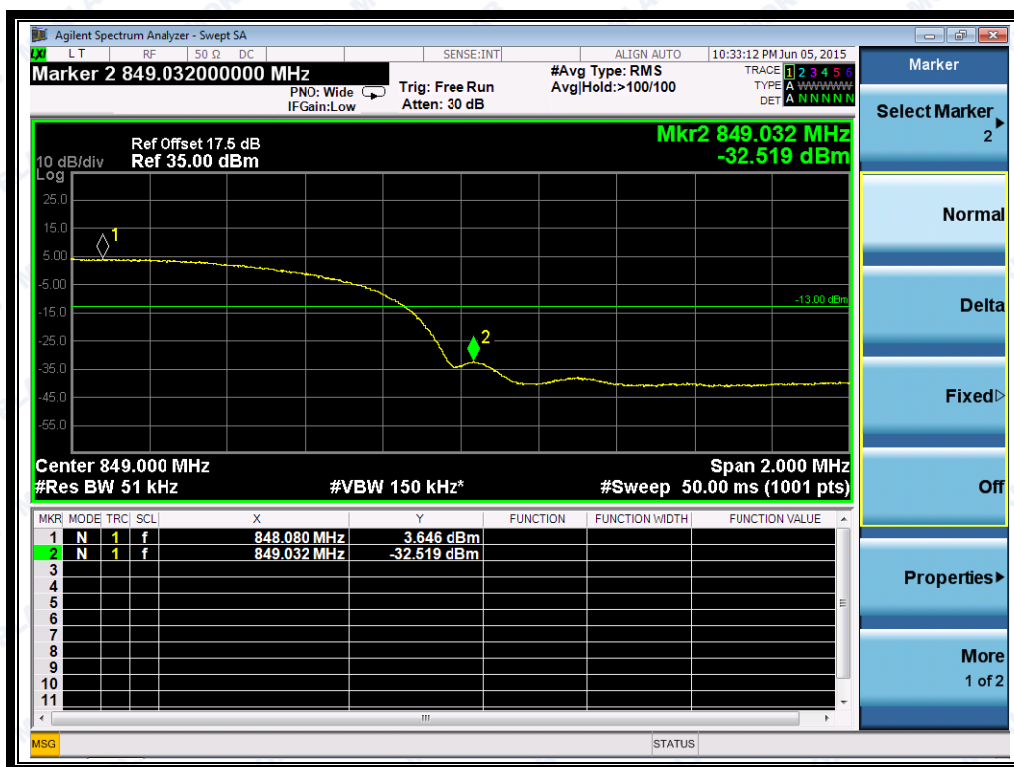
(Plot H2: HSDPA 1900 Channel = 9538)



REPORT No.: SZ15050187W01



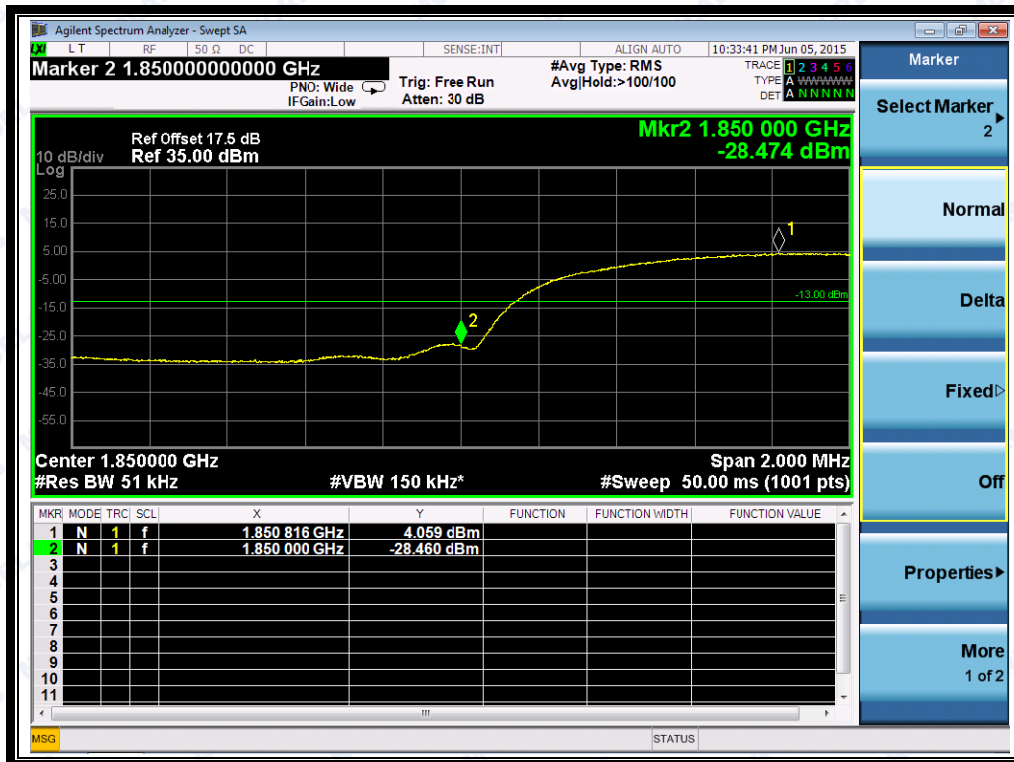
(Plot I1: HSUPA 850 Channel = 4132)



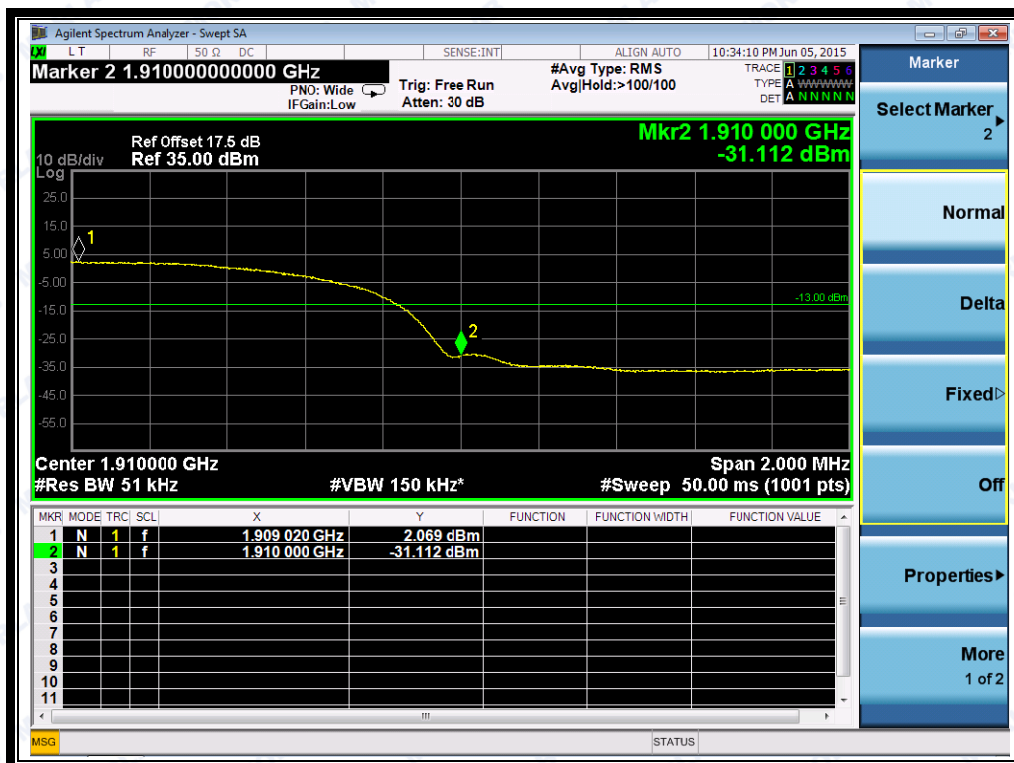
(Plot I2: HSUPA 850 Channel = 4233)



REPORT No.: SZ15050187W01



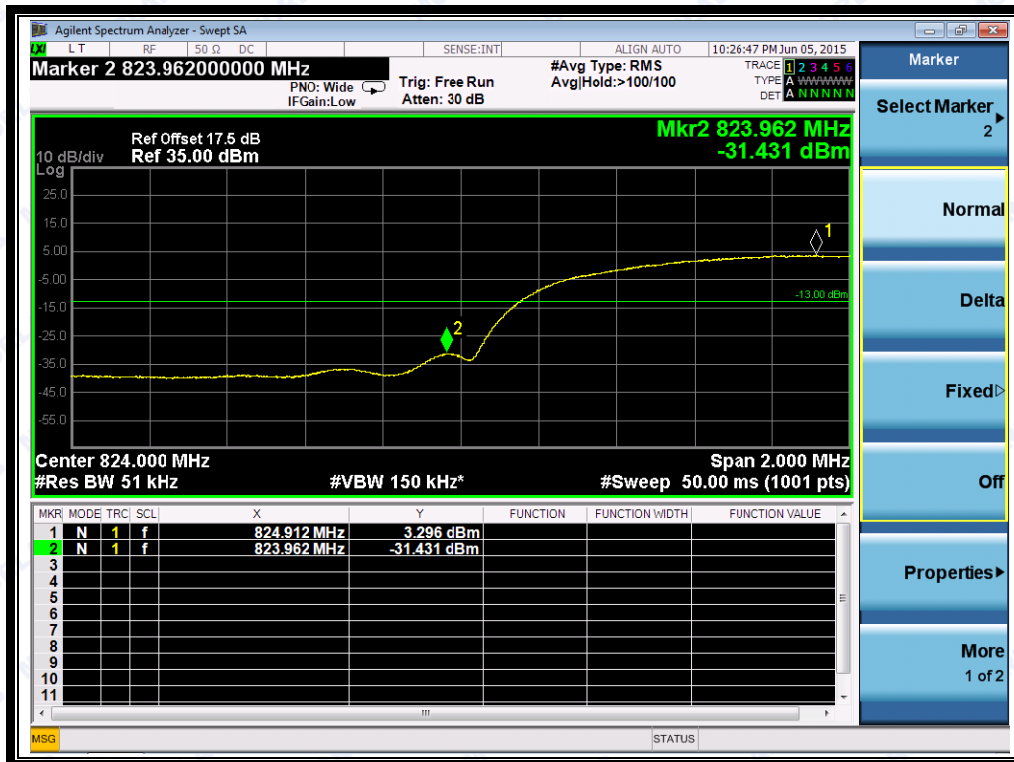
(Plot J1: HSUPA 1900 Channel = 9262)



(Plot J2: HSUPA 1900 Channel = 9538)



REPORT No.: SZ15050187W01



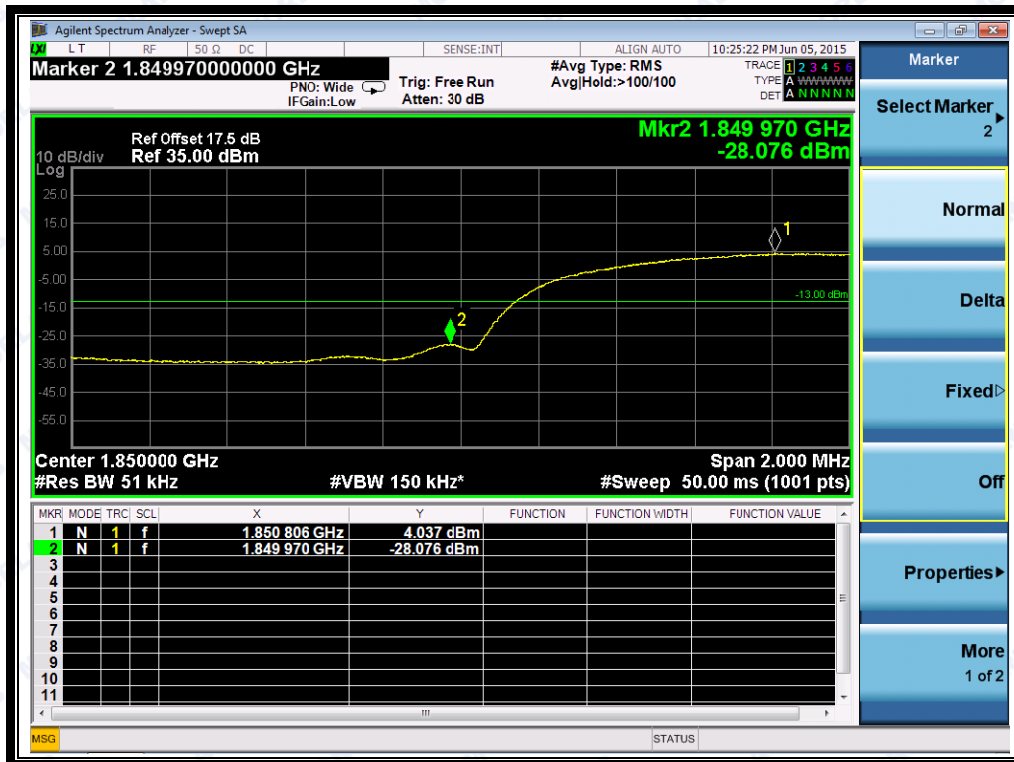
(Plot K1: HSPA+ 850 Channel = 4132)



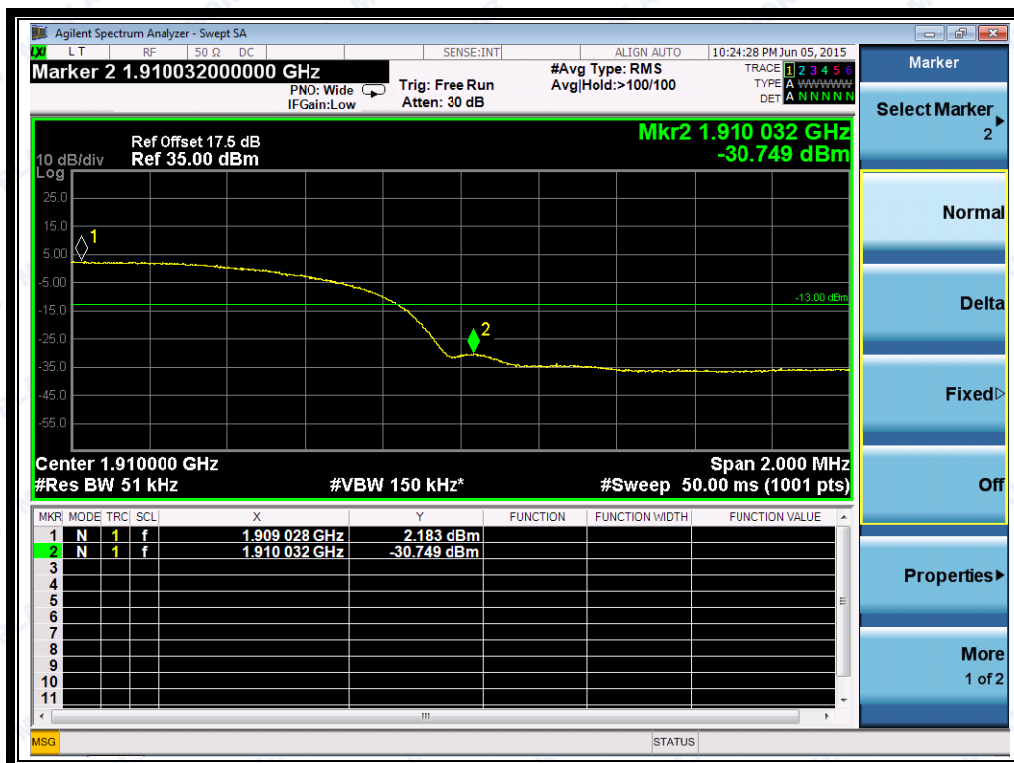
(Plot K2: HSPA+ 850 Channel = 4233)



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(Plot L1: HSPA+ 1900 Channel = 9262)



(Plot L2: HSPA+ 1900 Channel = 9538)

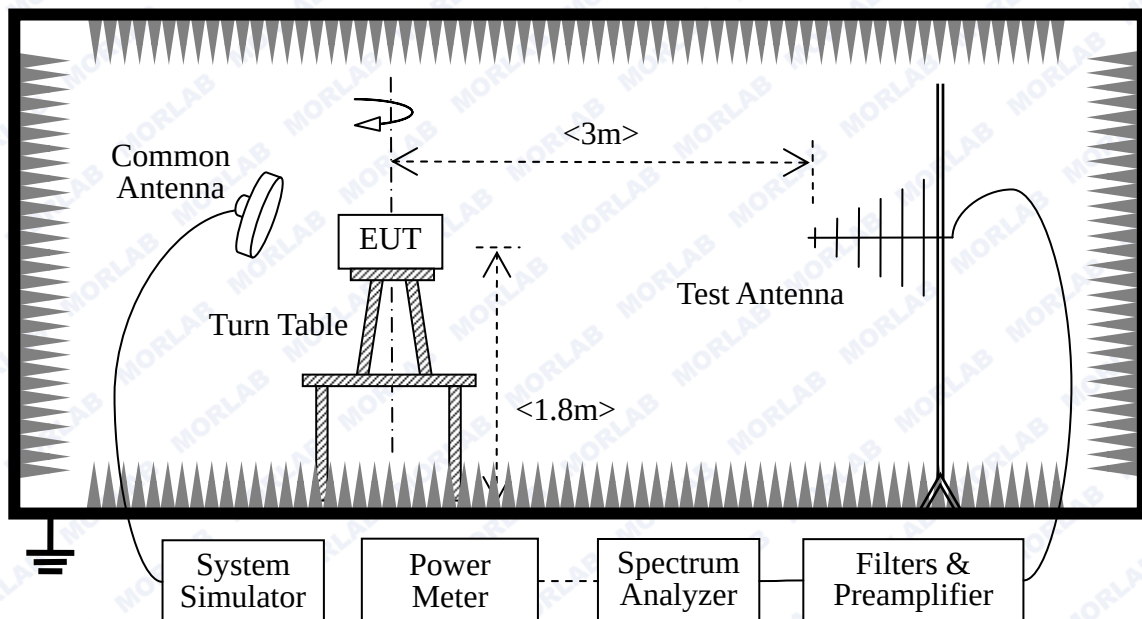
2.7 Transmitter Radiated Power (EIRP/ERP)

2.7.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

2.7.2 Test Description

Test Setup:



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded.

- GSM Maximum RF output power: WCDMA 850 24.29 dBm, WCDMA 1900 24.00 dBm .Please refer to section 2.1.3 of this report.
- Step size (dB): 3dB
- Minimum RF power: WCDMA 850 0.30dBm, WCDMA 1900 0.4dBm.



The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2015.02.26	2016.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2015.02.26	2016.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2015.02.26	2016.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C836.5-2 5-X	NA	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C1747.5- 75-X2	NA	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C1880-60 -X2	NA	2015.02.26	2016.02.25

2.7.3 Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.



A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

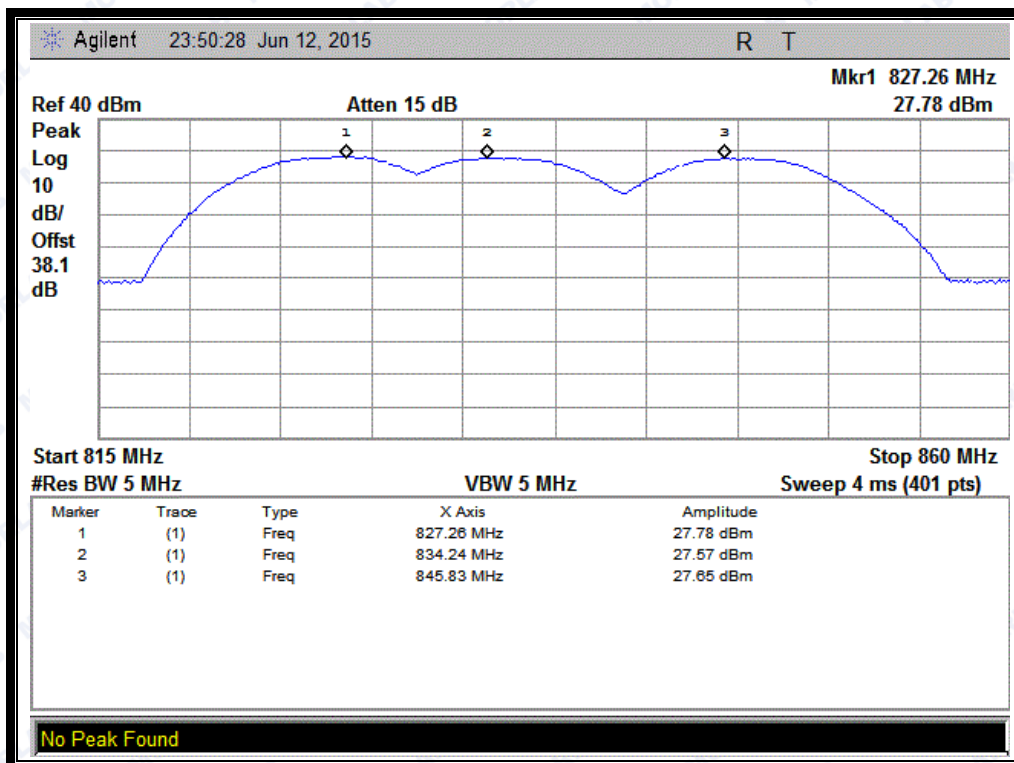
WCDMA Model Test Verdict:

Band	Channel	Frequency (MHz)	Measured ERP			Limit		Verdict
			dBm	W	Refer to Plot	dBm	W	
WCDMA 850MHz	4132	826.4	27.78	0.600	Plot G	38.5	7	PASS
	4175	835.0	27.57	0.571				PASS
	4233	846.6	27.65	0.582				PASS
HSDPA 850MHz	4132	826.4	27.52	0.565	Plot H	38.5	7	PASS
	4175	835.0	27.66	0.583				PASS
	4233	846.6	27.74	0.594				PASS
HSUPA 850MHz	4132	826.4	27.64	0.581	Plot I	38.5	7	PASS
	4175	835.0	27.66	0.583				PASS
	4233	846.6	27.68	0.586				PASS
HSPA+ 850MHz	4132	826.4	27.73	0.593	Plot J	38.5	7	PASS
	4175	835.0	27.43	0.553				PASS
	4233	846.6	27.88	0.614				PASS
Band	Channel	Frequency (MHz)	Measured EIRP			Limit		Verdict
			dBm	W	Refer to Plot	dBm	W	
WCDMA 1900MHz	9262	1852.4	26.28	0.425	Plot K	33	2	PASS
	9400	1880.0	26.85	0.484				PASS
	9538	1907.6	26.19	0.416				PASS
HSDPA 1900MHz	9262	1852.4	26.43	0.440	Plot L	33	2	PASS
	9400	1880.0	26.56	0.453				PASS
	9538	1907.6	26.20	0.417				PASS
HSUPA 1900MHz	9262	1852.4	26.19	0.416	Plot M	33	2	PASS
	9400	1880.0	26.46	0.443				PASS
	9538	1907.6	26.12	0.409				PASS
HSPA+ 1900MHz	9262	1852.4	26.31	0.428	Plot N	33	2	PASS
	9400	1880.0	26.53	0.450				PASS
	9538	1907.6	26.18	0.415				PASS

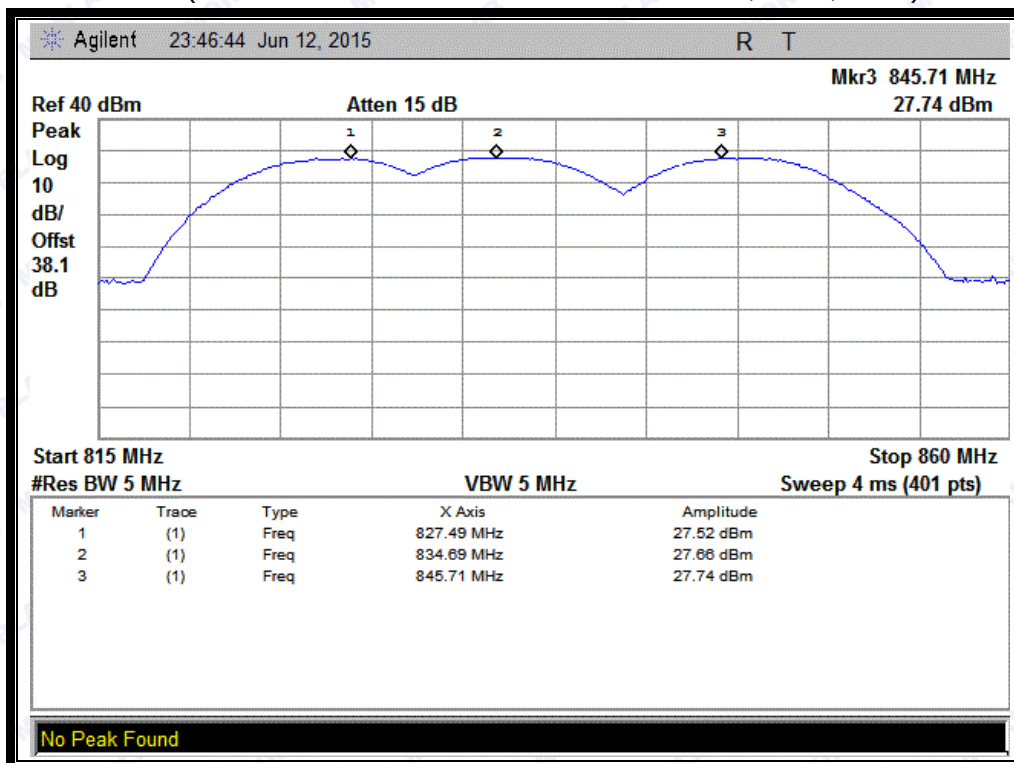


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Test Plots:



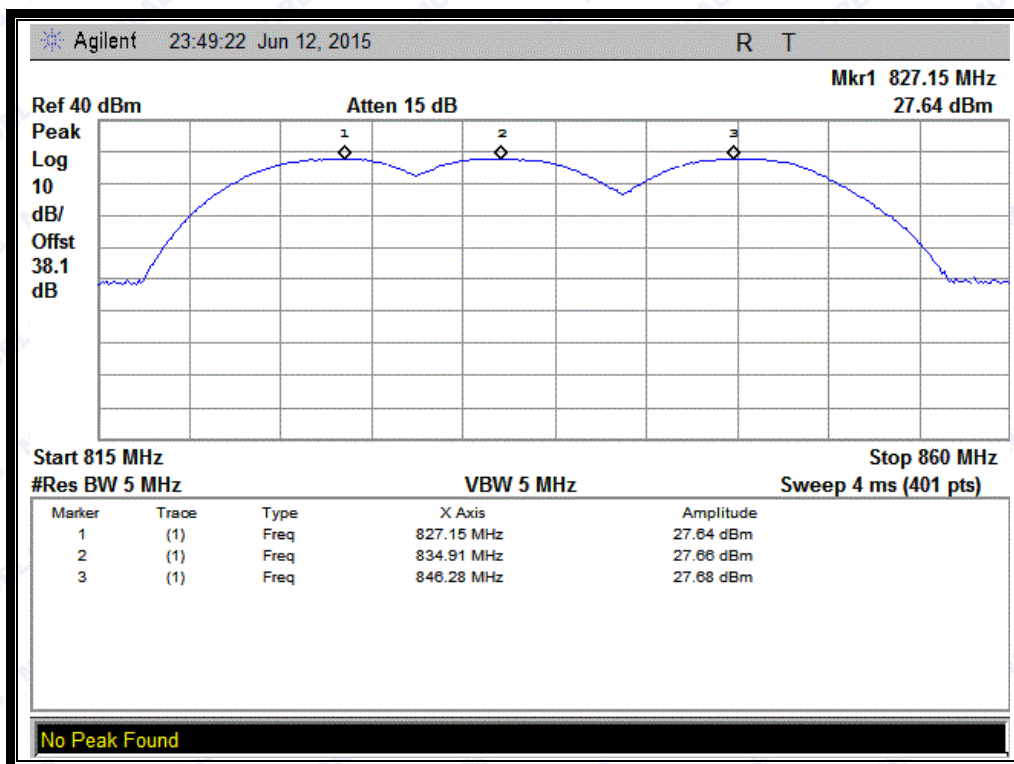
(Plot G: WCDMA 850 MHz Channel = 4132, 4175, 4233)



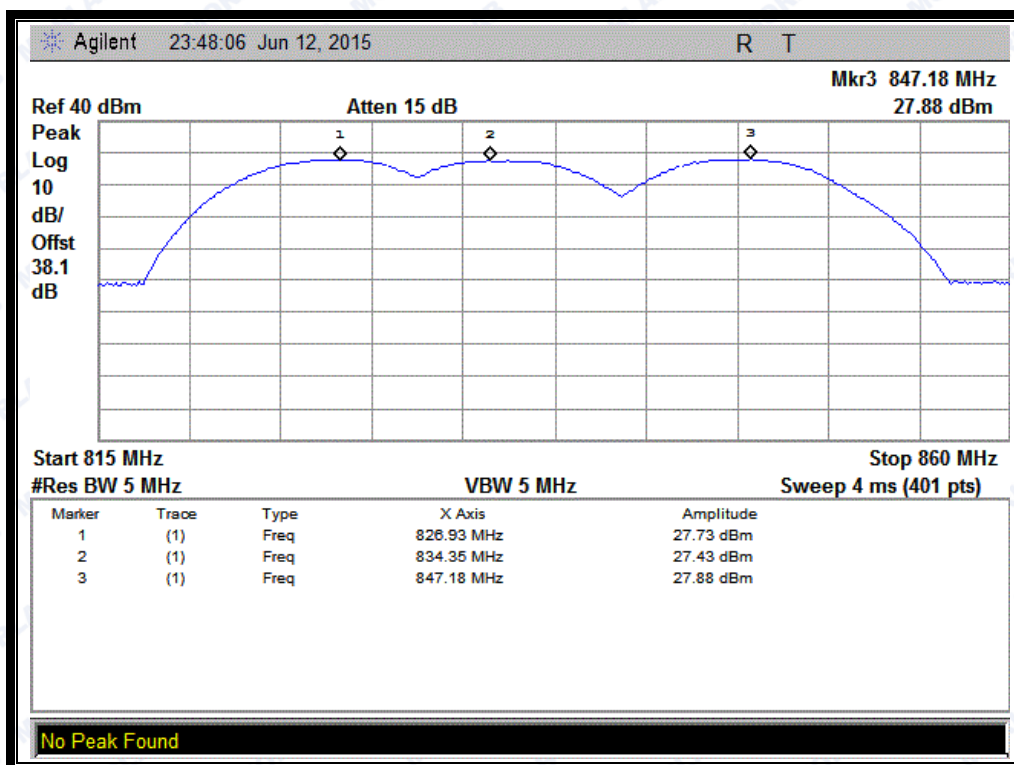
(Plot H: HSDPA 850 MHz Channel = 4132, 4175, 4233)



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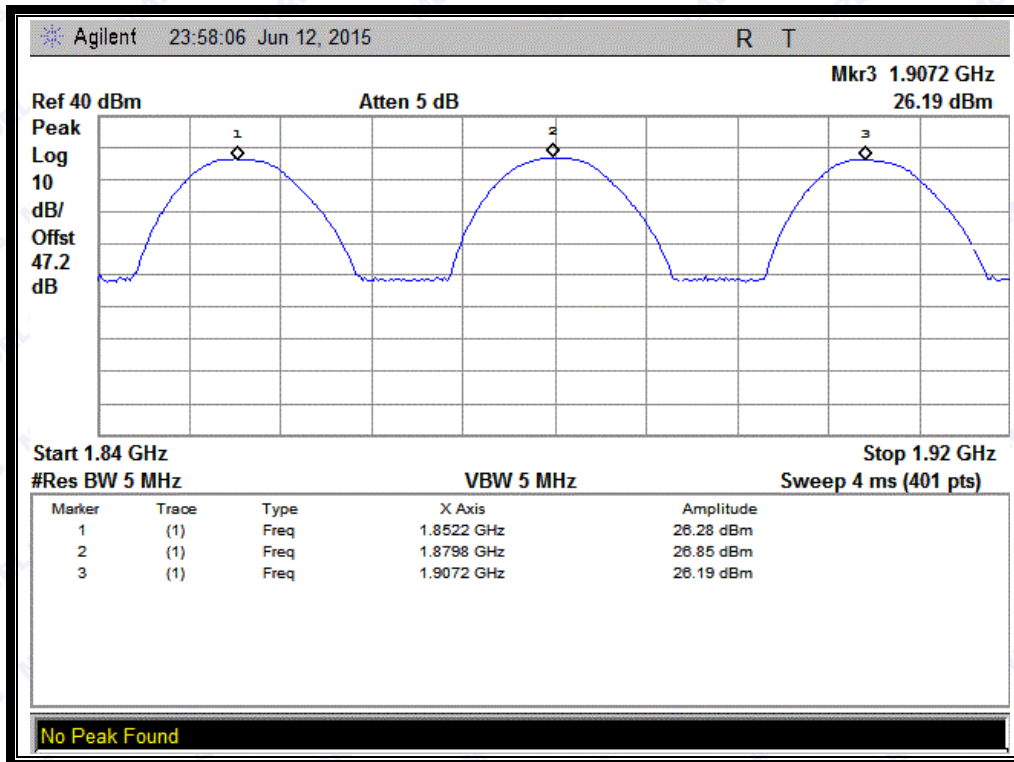
(Plot I: HSUPA 850 MHz Channel = 4132, 4175, 4233)



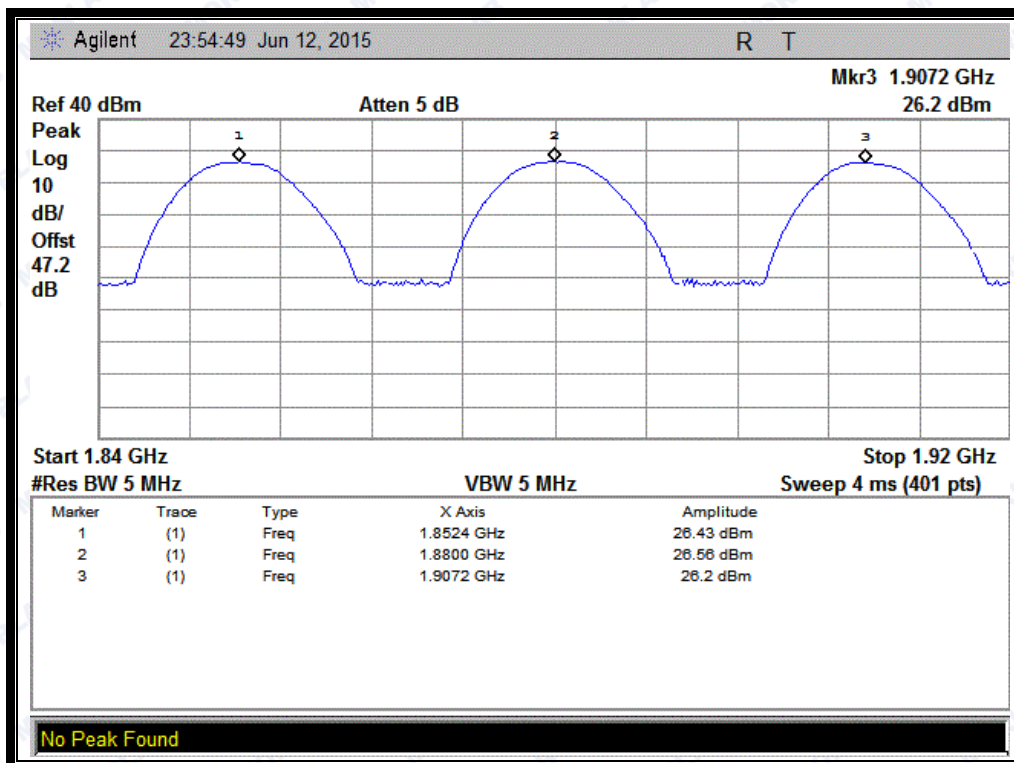
(Plot J: HSPA+ 850 MHz Channel = 4132, 4175, 4233)



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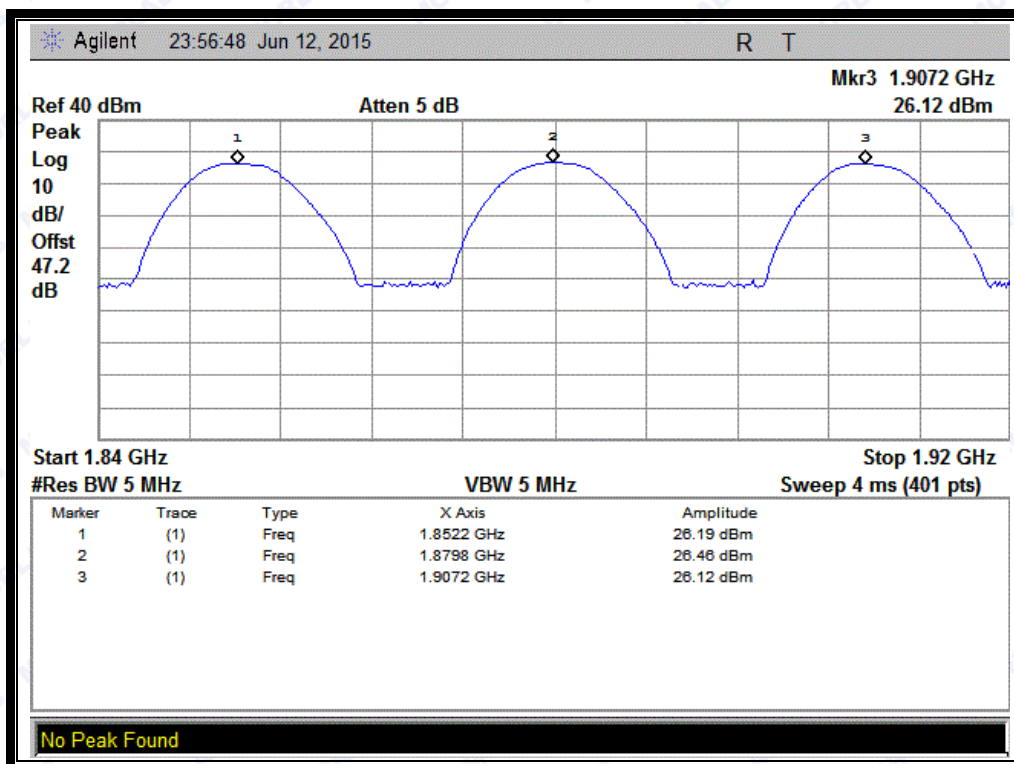
(Plot K: WCDMA 1900 MHz Channel = 9262, 9400, 9538)



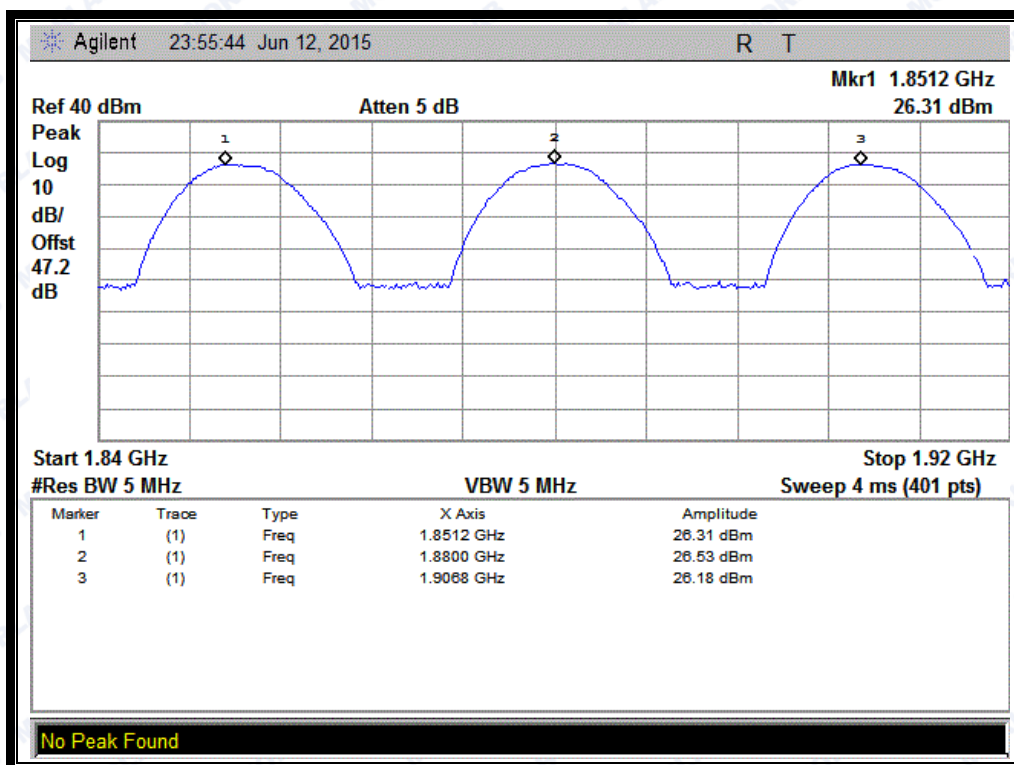
(Plot L: HSDPA1900 MHz Channel = 9262, 9400, 9538)



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(Plot M: HSUPA1900 MHz Channel = 9262, 9400, 9538)



(Plot N: HSPA+ 1900 MHz Channel = 9262, 9400, 9538)



2.8 Radiated Out of Band Emissions

2.8.1 Requirement

According to FCC section 22.917(a) and section 24.238(a) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

The spurious emission with frequency band 1900 according to FCC section 2.1057.

2.8.2 Test Description

See section 2.7.2 of this report.

Equipment List:

Description	Manufacturer	Model	Serial No.	Cal.Date	Cal.Due
System Simulator	Agilent	E5515C	GB43130131	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E7405A	US44210471	2015.02.26	2016.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2015.02.26	2016.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2015.02.26	2016.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25
Substitution Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2015.02.26	2016.02.25
Pre-AMPs	lucix	S10M100L3802	S020180L3203	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C836.5-25-X	NA	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C1747.5-75-X2	NA	2015.02.26	2016.02.25
Notch Filter	COM-MW	ZBSF-C1880-60-X2	NA	2015.02.26	2016.02.25

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.



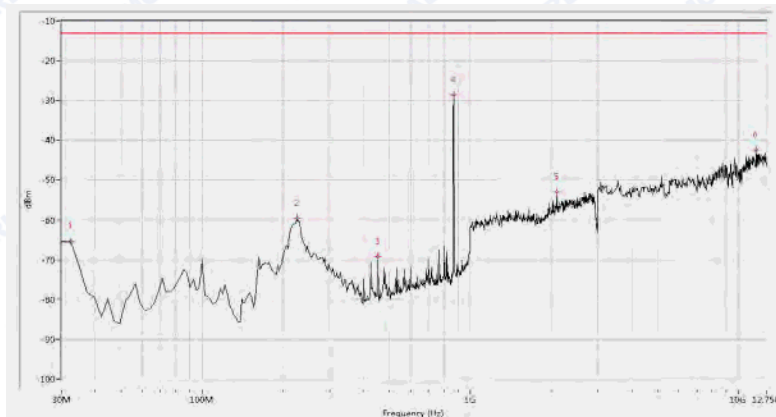
1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
WCDMA 850MHz	4132	826.4	< -25	< -25	Plot E1/E2	-13	PASS
	4175	835.0	< -25	< -25	Plot E3/E4		PASS
	4233	846.6	< -25	< -25	Plot E5/E6		PASS
WCDMA 1900MHz	9262	1852.4	< -25	< -25	Plot F1/F2	-13	PASS
	9400	1880.0	< -25	< -25	Plot F3/F4		PASS
	9538	1907.6	< -25	< -25	Plot F5/F6		PASS
HSDPA 850MHz	4132	826.4	< -25	< -25	Plot G1/G2	-13	PASS
	4175	835.0	< -25	< -25	Plot G3/G4		PASS
	4233	846.6	< -25	< -25	Plot G5/G6		PASS
HSDPA 1900MHz	9262	1852.4	< -25	< -25	Plot H1/H2	-13	PASS
	9400	1880.0	< -25	< -25	Plot H3/H4		PASS
	9538	1907.6	< -25	< -25	Plot H5/H6		PASS
HSUPA 850MHz	4132	826.4	< -25	< -25	Plot I1/I2	-13	PASS
	4175	835.0	< -25	< -25	Plot I3/I4		PASS
	4233	846.6	< -25	< -25	Plot I5/I6		PASS
HSUPA 1900MHz	9262	1852.4	< -25	< -25	Plot J1/J2	-13	PASS
	9400	1880.0	< -25	< -25	Plot J3/J4		PASS
	9538	1907.6	< -25	< -25	Plot J5/J6		PASS
HSPA+ 850MHz	4132	826.4	< -25	< -25	Plot K1/K2	-13	PASS
	4175	835.0	< -25	< -25	Plot K3/K4		PASS
	4233	846.6	< -25	< -25	Plot K5/K6		PASS
HSPA+ 1900MHz	9262	1852.4	< -25	< -25	Plot L1/L2	-13	PASS
	9400	1880.0	< -25	< -25	Plot L3/L4		PASS
	9538	1907.6	< -25	< -25	Plot L5/L6		PASS

2. Test Plots for the Whole Measurement Frequency Range:

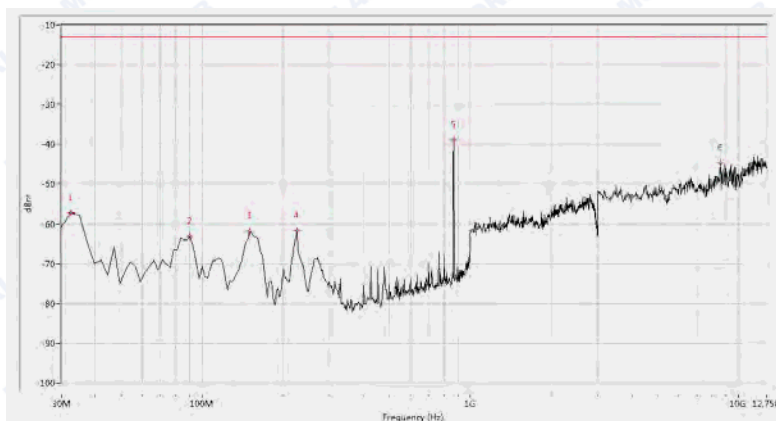
Note1: the power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



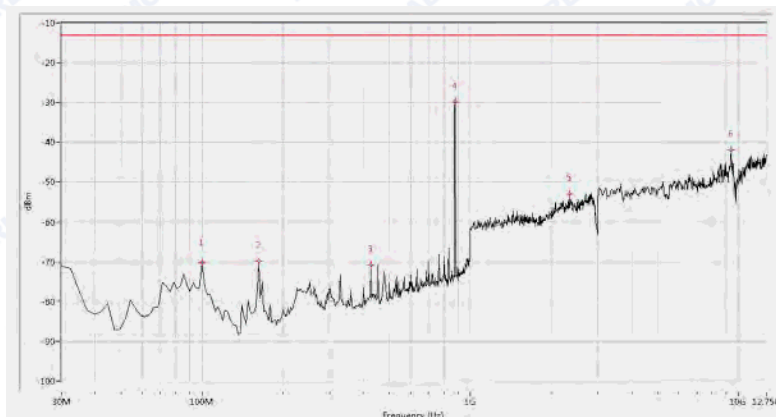
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-65.50	-13.0	52.5	Horizontal	PASS
225.935	-59.56	-13.0	46.6	Horizontal	PASS
453.317	-69.18	-13.0	56.2	Horizontal	PASS
869.377	-28.55	-13.0	15.5	Horizontal	N.A
2102.244	-52.89	-13.0	39.9	Horizontal	PASS
11655.860	-42.40	-13.0	29.4	Horizontal	PASS

(Plot E1: WCDMA 850MHz Channel = 4132, Test Antenna Horizontal)



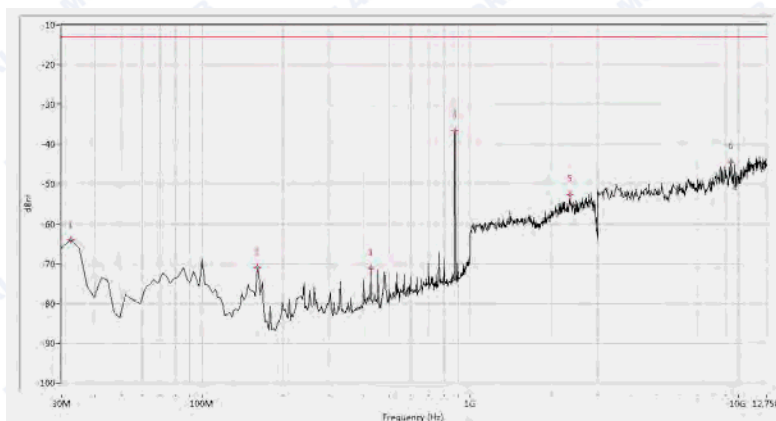
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-57.31	-13.0	44.3	Vertical	PASS
90.474	-63.09	-13.0	50.1	Vertical	PASS
150.948	-61.93	-13.0	48.9	Vertical	PASS
225.935	-61.69	-13.0	48.7	Vertical	PASS
869.377	-38.94	-13.0	25.9	Vertical	N.A
8567.955	-44.80	-13.0	31.8	Vertical	PASS

(Plot E2: WCDMA 850MHz Channel = 4132, Test Antenna Vertical)



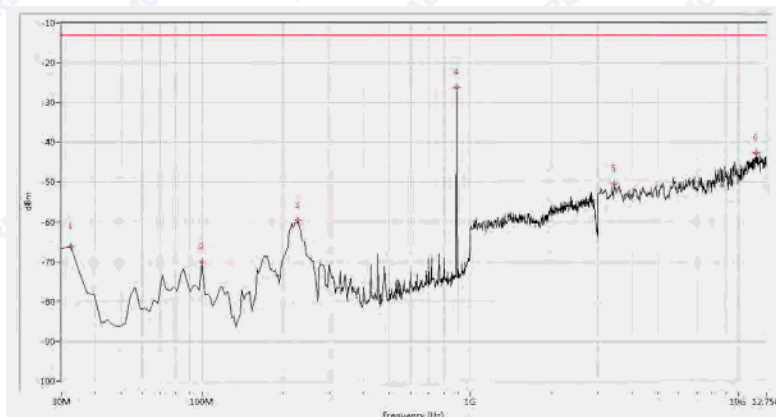
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-70.19	-13.0	57.2	Horizontal	PASS
163.042	-69.79	-13.0	56.8	Horizontal	PASS
426.708	-70.86	-13.0	57.9	Horizontal	PASS
879.052	-29.75	-13.0	16.8	Horizontal	N.A
2341.646	-52.87	-13.0	39.9	Horizontal	PASS
9394.638	-41.93	-13.0	28.9	Horizontal	PASS

(Plot E3: WCDMA 850MHz Channel = 4175, Test Antenna Horizontal)



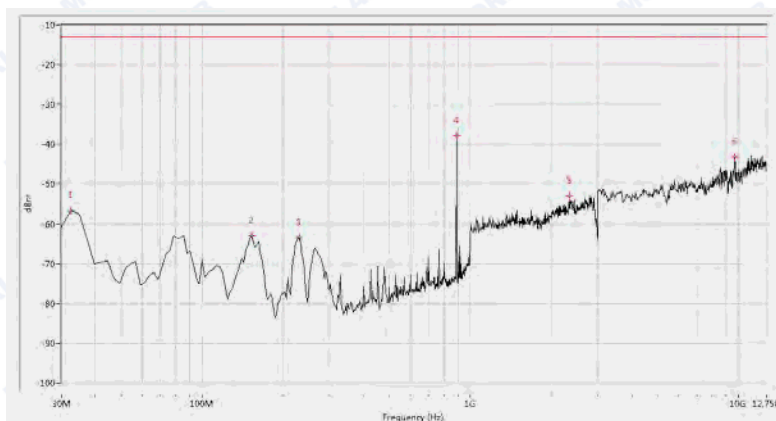
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-64.09	-13.0	51.1	Vertical	PASS
160.623	-71.04	-13.0	58.0	Vertical	PASS
426.708	-71.06	-13.0	58.1	Vertical	PASS
879.052	-36.55	-13.0	23.5	Vertical	N.A
2356.608	-52.66	-13.0	39.7	Vertical	PASS
9394.638	-44.46	-13.0	31.5	Vertical	PASS

(Plot E4: WCDMA 850MHz Channel = 4175, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-66.18	-13.0	53.2	Horizontal	PASS
100.150	-69.99	-13.0	57.0	Horizontal	PASS
228.354	-59.48	-13.0	46.5	Horizontal	PASS
888.728	-26.16	-13.0	13.2	Horizontal	N.A
3437.656	-50.44	-13.0	37.4	Horizontal	PASS
11655.860	-42.67	-13.0	29.7	Horizontal	PASS

(Plot E5: WCDMA 850MHz Channel = 4233, Test Antenna Horizontal)

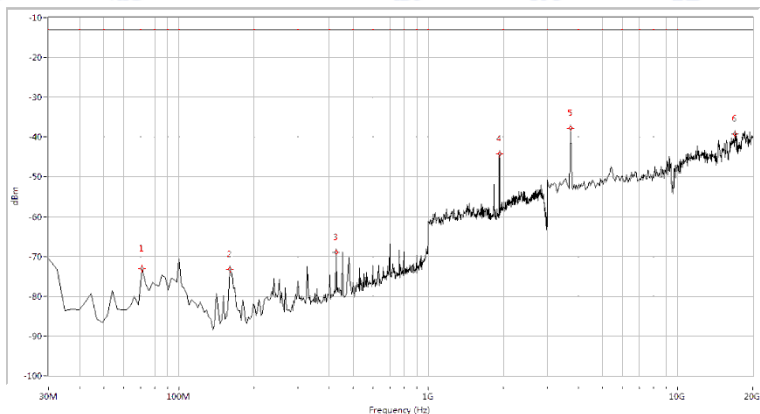


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.74	-13.0	43.7	Vertical	PASS
153.367	-63.01	-13.0	50.0	Vertical	PASS
230.773	-63.53	-13.0	50.5	Vertical	PASS
888.728	-37.84	-13.0	24.8	Vertical	N.A
2351.621	-52.97	-13.0	40.0	Vertical	PASS
9710.723	-43.09	-13.0	30.1	Vertical	PASS

(Plot E6: WCDMA 850MHz Channel = 4233, Test Antenna Vertical)

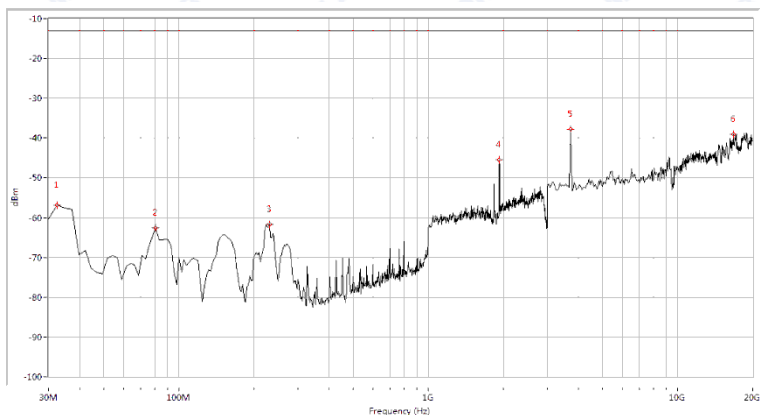


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
71.122	-73.11	-13.0	60.1	Horizontal	PASS
160.623	-73.28	-13.0	60.3	Horizontal	PASS
426.708	-68.92	-13.0	55.9	Horizontal	PASS
1932.668	-44.21	-13.0	31.2	Horizontal	N.A
3720.698	-37.76	-13.0	24.8	Horizontal	PASS
16990.025	-39.30	-13.0	26.3	Horizontal	PASS

(Plot F1: WCDMA 1900MHz Channel = 9262, Test Antenna Horizontal)

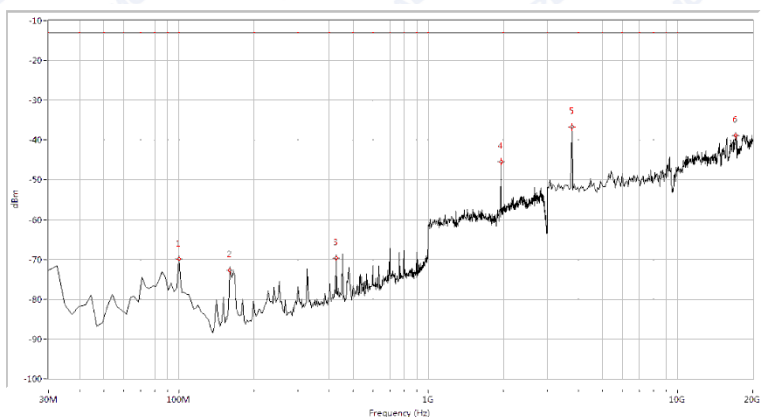


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.87	-13.0	43.9	Vertical	PASS
80.798	-62.66	-13.0	49.7	Vertical	PASS
230.773	-61.61	-13.0	48.6	Vertical	PASS
1927.681	-45.45	-13.0	32.5	Vertical	N.A
3720.698	-37.72	-13.0	24.7	Vertical	PASS
16735.661	-39.07	-13.0	26.1	Vertical	PASS

(Plot F2: WCDMA 1900MHz Channel = 9262, Test Antenna Vertical)

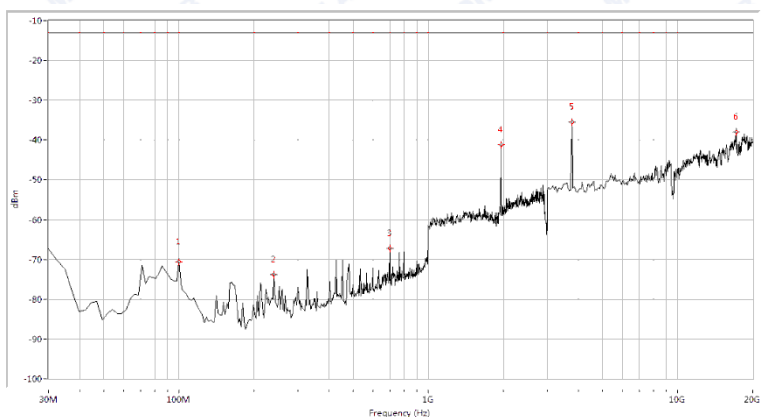


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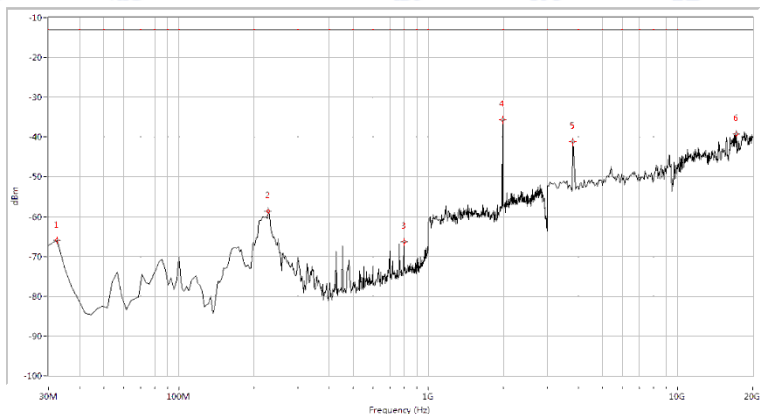
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.80	-13.0	56.8	Horizontal	PASS
160.623	-72.69	-13.0	59.7	Horizontal	PASS
426.708	-69.70	-13.0	56.7	Horizontal	PASS
1957.606	-45.45	-13.0	32.5	Horizontal	N.A
3763.092	-36.71	-13.0	23.7	Horizontal	PASS
17074.813	-38.88	-13.0	25.9	Horizontal	PASS

(Plot F3: WCDMA 1900MHz Channel = 9400, Test Antenna Horizontal)



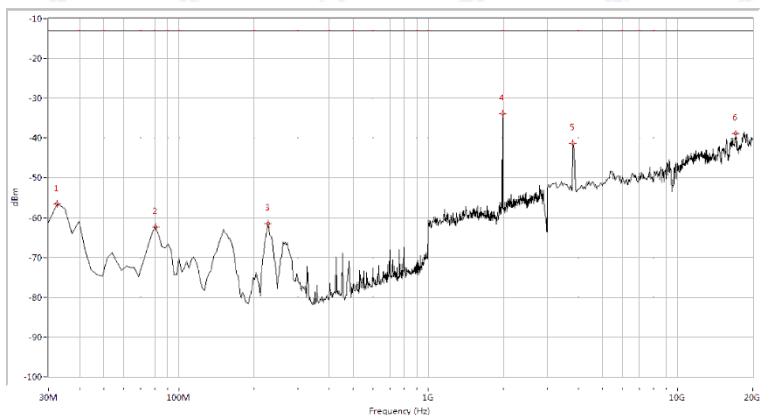
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-70.58	-13.0	57.6	Vertical	PASS
240.449	-73.85	-13.0	60.8	Vertical	PASS
700.050	-67.23	-13.0	54.2	Vertical	PASS
1957.606	-41.21	-13.0	28.2	Vertical	N.A
3763.092	-35.55	-13.0	22.6	Vertical	PASS
17159.601	-37.99	-13.0	25.0	Vertical	PASS

(Plot F4: WCDMA 1900MHz Channel = 9400, Test Antenna Vertical)



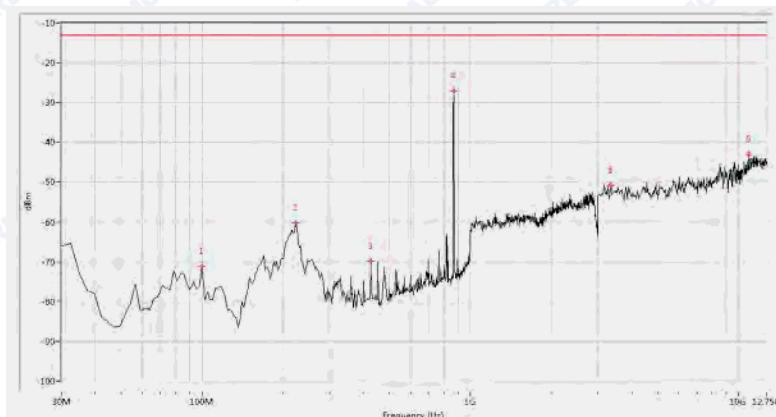
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-66.02	-13.0	53.0	Horizontal	PASS
228.354	-58.59	-13.0	45.6	Horizontal	PASS
799.227	-66.30	-13.0	53.3	Horizontal	PASS
1987.531	-35.59	-13.0	22.6	Horizontal	N.A
3805.486	-41.28	-13.0	28.3	Horizontal	PASS
17159.601	-39.21	-13.0	26.2	Horizontal	PASS

(Plot F5: WCDMA 1900MHz Channel = 9538, Test Antenna Horizontal)



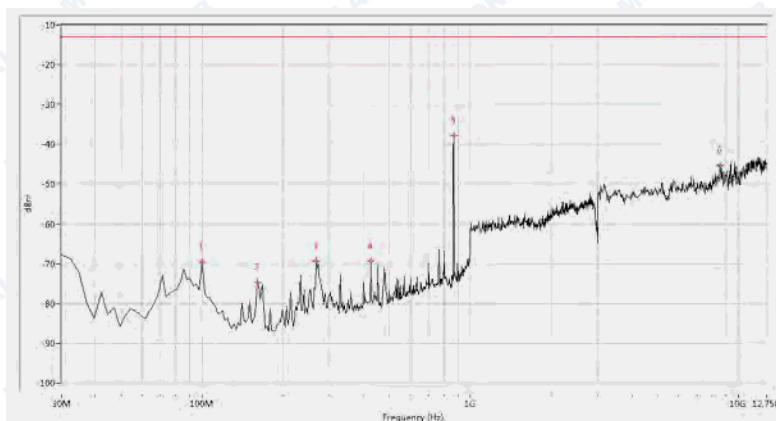
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.47	-13.0	43.5	Vertical	PASS
80.798	-62.37	-13.0	49.4	Vertical	PASS
228.354	-61.45	-13.0	48.4	Vertical	PASS
1987.531	-33.94	-13.0	20.9	Vertical	N.A
3805.486	-41.34	-13.0	28.3	Vertical	PASS
17117.207	-38.87	-13.0	25.9	Vertical	PASS

(Plot F6: WCDMA 1900MHz Channel = 9538, Test Antenna Vertical)



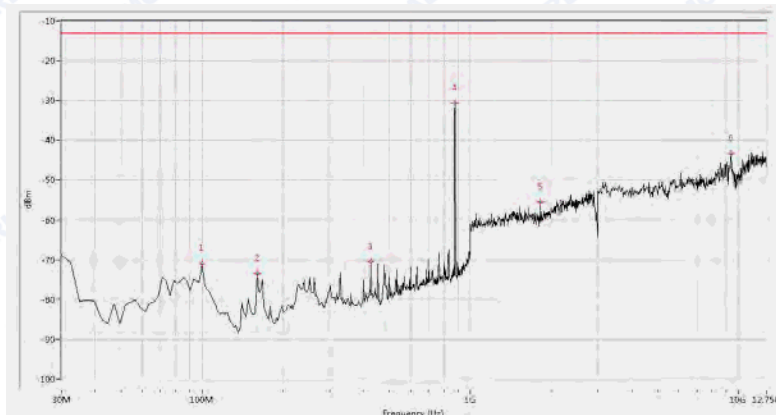
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.18	-13.0	58.2	Horizontal	PASS
223.516	-60.28	-13.0	47.3	Horizontal	PASS
426.708	-69.93	-13.0	56.9	Horizontal	PASS
869.377	-27.04	-13.0	14.0	Horizontal	N.A
3340.399	-50.85	-13.0	37.8	Horizontal	PASS
10975.062	-43.06	-13.0	30.1	Horizontal	PASS

(Plot G1: HSDPA 850MHz Channel = 4132, Test Antenna Horizontal)



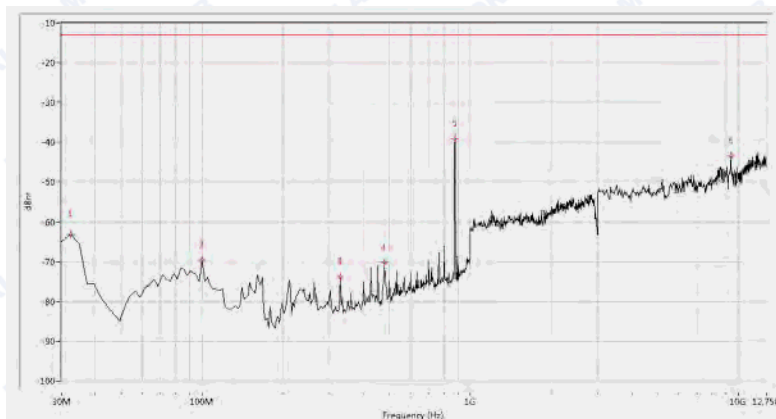
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.57	-13.0	56.6	Vertical	PASS
160.623	-74.65	-13.0	61.7	Vertical	PASS
267.057	-69.34	-13.0	56.3	Vertical	PASS
426.708	-69.43	-13.0	56.4	Vertical	PASS
871.796	-37.74	-13.0	24.7	Vertical	N.A
8543.641	-45.21	-13.0	32.2	Vertical	PASS

(Plot G2: HSDPA 850MHz Channel = 4132, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.03	-13.0	58.0	Horizontal	PASS
160.623	-73.36	-13.0	60.4	Horizontal	PASS
426.708	-70.42	-13.0	57.4	Horizontal	PASS
879.052	-30.70	-13.0	17.7	Horizontal	N.A
1832.918	-55.45	-13.0	42.5	Horizontal	PASS
9394.638	-43.36	-13.0	30.4	Horizontal	PASS

(Plot G3: HSDPA 850MHz Channel = 4175, Test Antenna Horizontal)

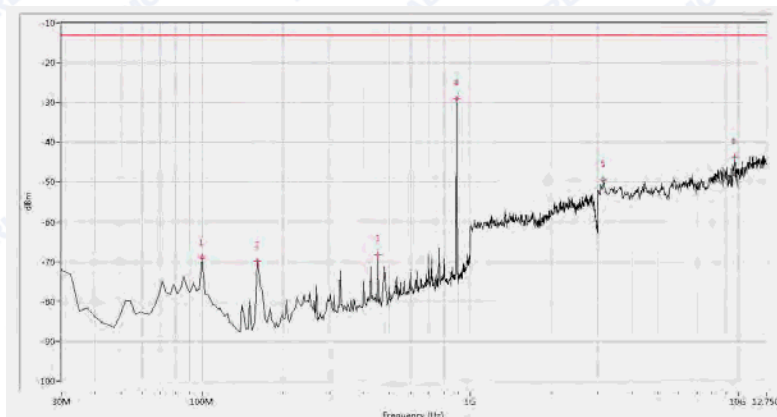


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-63.04	-13.0	50.0	Vertical	PASS
100.150	-69.47	-13.0	56.5	Vertical	PASS
327.531	-73.86	-13.0	60.9	Vertical	PASS
479.925	-70.30	-13.0	57.3	Vertical	PASS
879.052	-39.01	-13.0	26.0	Vertical	N.A
9394.638	-43.54	-13.0	30.5	Vertical	PASS

(Plot G4: HSDPA 850MHz Channel = 4175, Test Antenna Vertical)

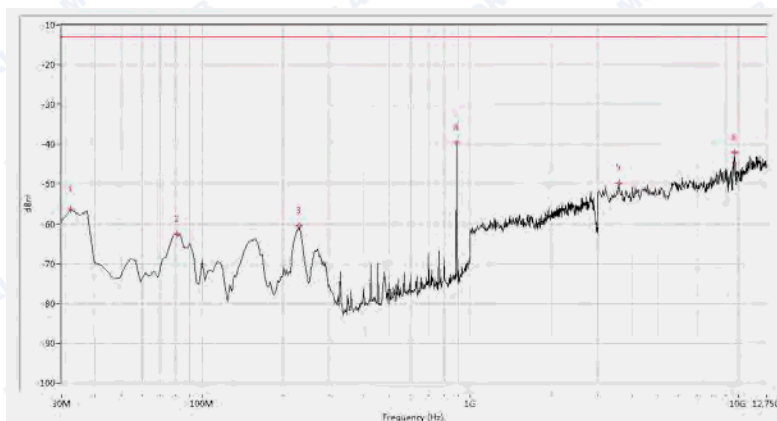


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-68.98	-13.0	56.0	Horizontal	PASS
160.623	-69.86	-13.0	56.9	Horizontal	PASS
453.317	-68.35	-13.0	55.4	Horizontal	PASS
888.728	-29.13	-13.0	16.1	Horizontal	N.A
3145.885	-49.44	-13.0	36.4	Horizontal	PASS
9710.723	-43.73	-13.0	30.7	Horizontal	PASS

(Plot G5: HSDPA 850MHz Channel = 4233, Test Antenna Horizontal)

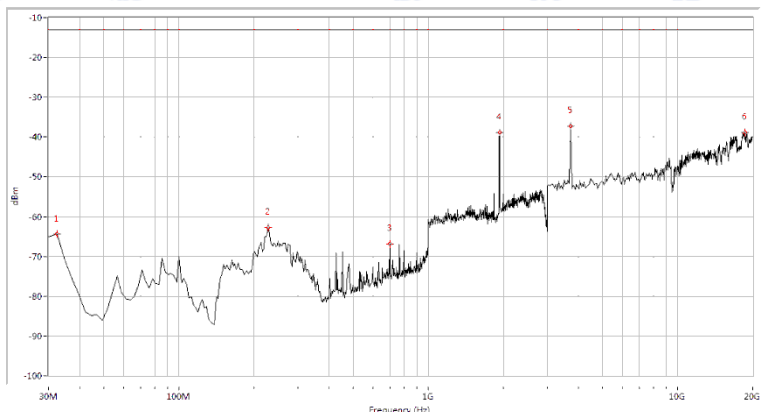


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.30	-13.0	43.3	Vertical	PASS
80.798	-62.55	-13.0	49.6	Vertical	PASS
230.773	-60.51	-13.0	47.5	Vertical	PASS
888.728	-39.65	-13.0	26.6	Vertical	N.A
3583.541	-49.76	-13.0	36.8	Vertical	PASS
9686.409	-41.99	-13.0	29.0	Vertical	PASS

(Plot G6: HSDPA 850MHz Channel = 4233, Test Antenna Vertical)

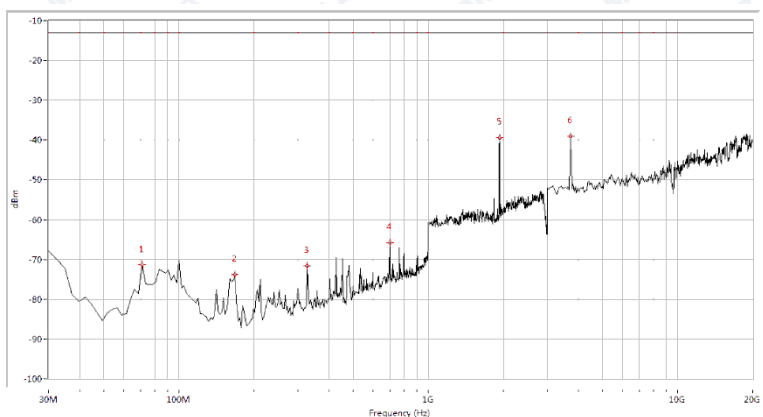


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-64.33	-13.0	51.3	Horizontal	PASS
228.354	-62.75	-13.0	49.8	Horizontal	PASS
700.050	-66.78	-13.0	53.8	Horizontal	PASS
1932.668	-38.93	-13.0	25.9	Horizontal	N.A
3720.698	-37.23	-13.0	24.2	Horizontal	PASS
18558.603	-38.96	-13.0	26.0	Horizontal	PASS

(Plot H1: HSDPA 1900MHz Channel = 9262, Test Antenna Horizontal)

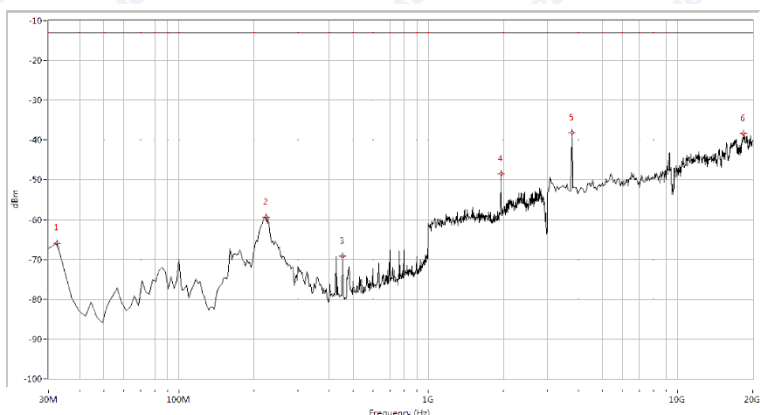


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
71.122	-71.25	-13.0	58.3	Vertical	PASS
167.880	-73.72	-13.0	60.7	Vertical	PASS
327.531	-71.65	-13.0	58.6	Vertical	PASS
700.050	-65.73	-13.0	52.7	Vertical	PASS
1932.668	-39.40	-13.0	26.4	Vertical	N.A
3720.698	-39.05	-13.0	26.0	Vertical	PASS

(Plot H2: HSDPA 1900MHz Channel = 9262, Test Antenna Vertical)

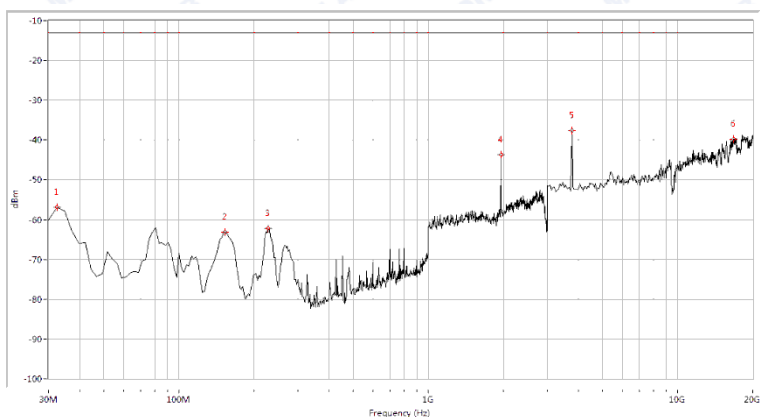


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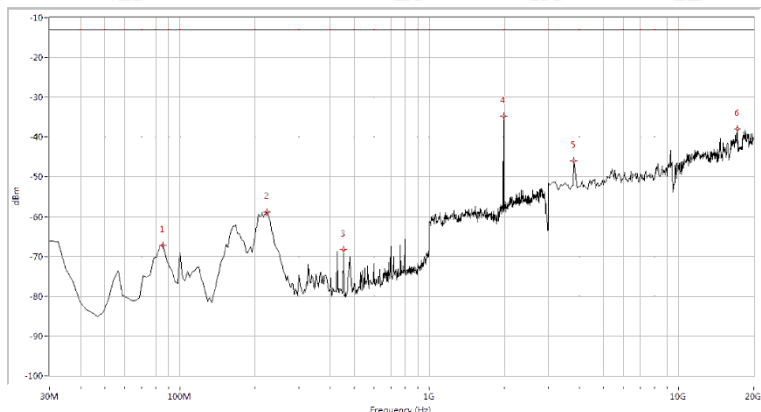
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-65.94	-13.0	52.9	Horizontal	PASS
223.516	-59.37	-13.0	46.4	Horizontal	PASS
453.317	-69.11	-13.0	56.1	Horizontal	PASS
1957.606	-48.55	-13.0	35.5	Horizontal	N.A
3763.092	-38.20	-13.0	25.2	Horizontal	PASS
18389.027	-38.33	-13.0	25.3	Horizontal	PASS

(Plot H3: HSDPA 1900MHz Channel = 9400, Test Antenna Horizontal)



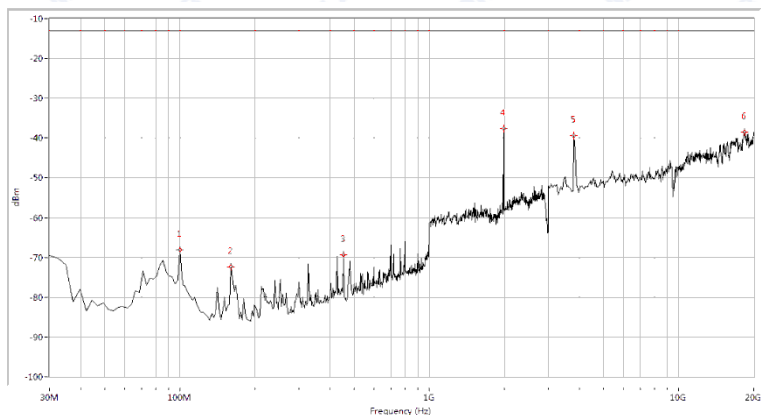
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.85	-13.0	43.8	Vertical	PASS
153.367	-63.04	-13.0	50.0	Vertical	PASS
228.354	-62.13	-13.0	49.1	Vertical	PASS
1957.606	-43.62	-13.0	30.6	Vertical	N.A
3763.092	-37.65	-13.0	24.7	Vertical	PASS
16735.661	-39.73	-13.0	26.7	Vertical	PASS

(Plot H4: HSDPA 1900MHz Channel = 9400, Test Antenna Vertical)



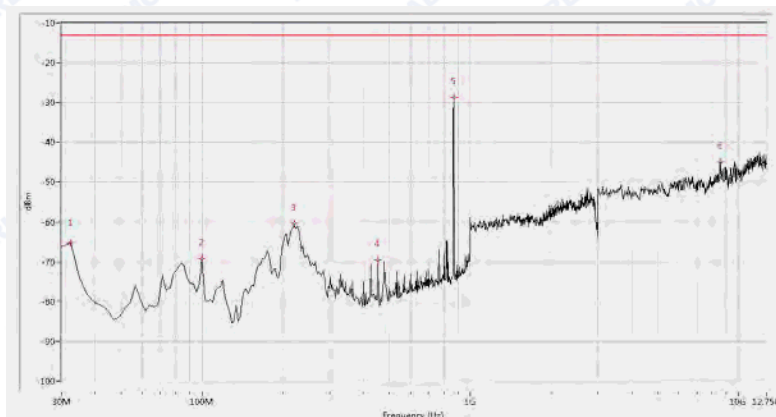
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
85.636	-67.24	-13.0	54.2	Horizontal	PASS
223.516	-58.82	-13.0	45.8	Horizontal	PASS
453.317	-68.23	-13.0	55.2	Horizontal	PASS
1987.531	-34.75	-13.0	21.7	Horizontal	N.A
3805.486	-45.93	-13.0	32.9	Horizontal	PASS
17159.601	-38.04	-13.0	25.0	Horizontal	PASS

(Plot H5: HSDPA 1900MHz Channel = 9538, Test Antenna Horizontal)



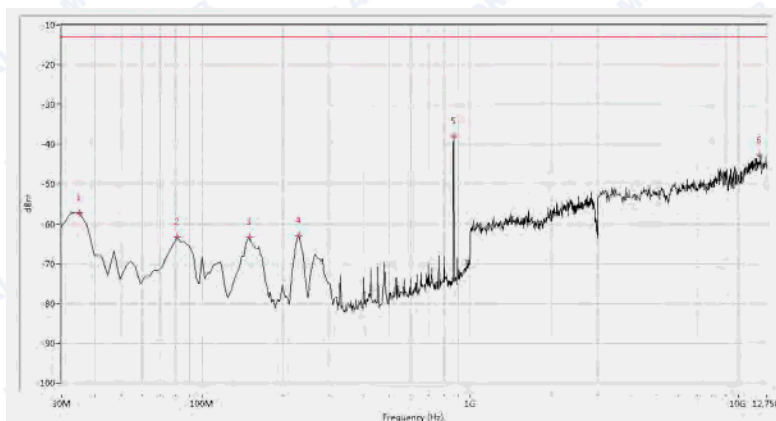
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-68.16	-13.0	55.2	Vertical	PASS
160.623	-72.29	-13.0	59.3	Vertical	PASS
453.317	-69.39	-13.0	56.4	Vertical	PASS
1987.531	-37.60	-13.0	24.6	Vertical	N.A
3805.486	-39.44	-13.0	26.4	Vertical	PASS
18389.027	-38.44	-13.0	25.4	Vertical	PASS

(Plot H6: HSDPA 1900MHz Channel = 9538, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-65.19	-13.0	52.2	Horizontal	PASS
100.150	-69.24	-13.0	56.2	Horizontal	PASS
221.097	-60.43	-13.0	47.4	Horizontal	PASS
453.317	-69.60	-13.0	56.6	Horizontal	PASS
869.377	-28.66	-13.0	15.7	Horizontal	N.A
8567.955	-44.93	-13.0	31.9	Horizontal	PASS

(Plot I1: HSUPA 850MHz Channel = 4132, Test Antenna Horizontal)

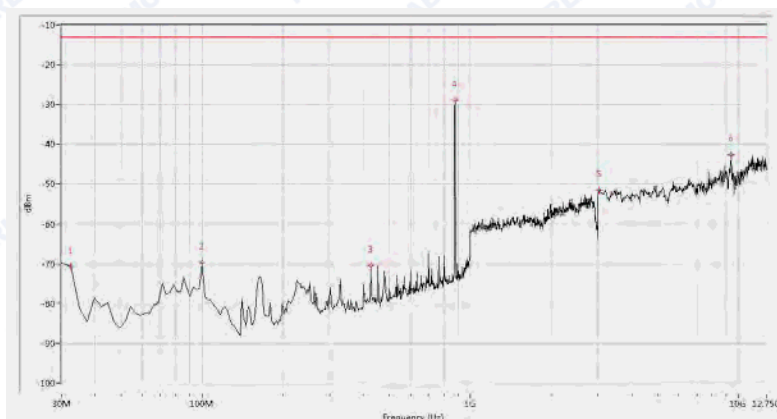


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-57.30	-13.0	44.3	Vertical	PASS
80.798	-63.35	-13.0	50.3	Vertical	PASS
150.948	-63.25	-13.0	50.3	Vertical	PASS
230.773	-63.00	-13.0	50.0	Vertical	PASS
869.377	-38.01	-13.0	25.0	Vertical	N.A
11996.259	-42.71	-13.0	29.7	Vertical	PASS

(Plot I2: HSUPA 850MHz Channel = 4132, Test Antenna Vertical)

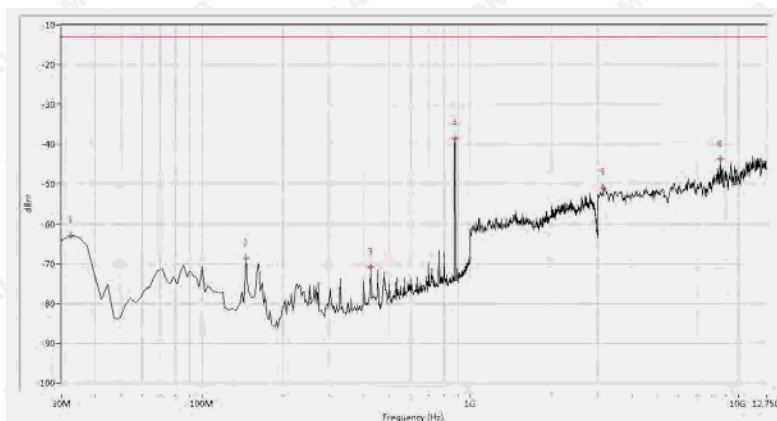


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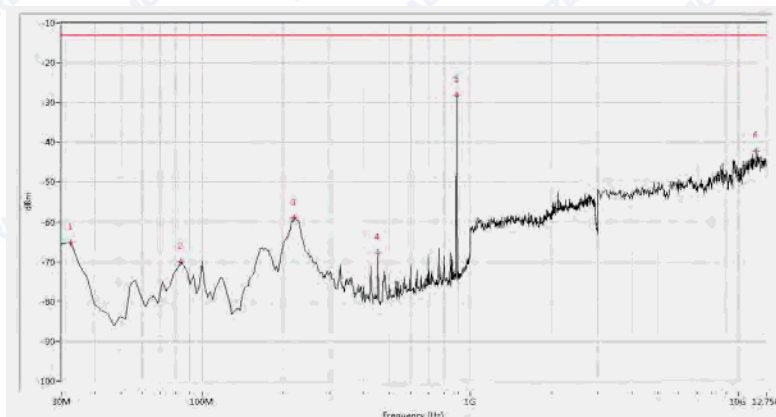
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-70.63	-13.0	57.6	Horizontal	PASS
100.150	-69.66	-13.0	56.7	Horizontal	PASS
426.708	-70.37	-13.0	57.4	Horizontal	PASS
879.052	-28.81	-13.0	15.8	Horizontal	N.A
3024.314	-51.57	-13.0	38.6	Horizontal	PASS
9394.638	-42.70	-13.0	29.7	Horizontal	PASS

(Plot I3: HSUPA 850MHz Channel = 4175, Test Antenna Horizontal)



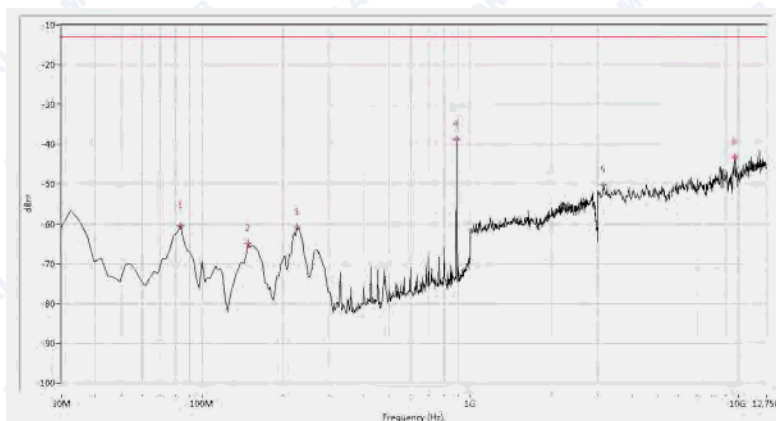
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-63.00	-13.0	50.0	Vertical	PASS
146.110	-68.61	-13.0	55.6	Vertical	PASS
426.708	-70.84	-13.0	57.8	Vertical	PASS
879.052	-38.57	-13.0	25.6	Vertical	N.A
3121.571	-50.85	-13.0	37.9	Vertical	PASS
8567.955	-43.62	-13.0	30.6	Vertical	PASS

(Plot I4: HSUPA 850MHz Channel = 4175, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-65.31	-13.0	52.3	Horizontal	PASS
83.217	-70.02	-13.0	57.0	Horizontal	PASS
221.097	-58.98	-13.0	46.0	Horizontal	PASS
453.317	-67.70	-13.0	54.7	Horizontal	PASS
888.728	-28.25	-13.0	15.2	Horizontal	N.A
11631.546	-42.22	-13.0	29.2	Horizontal	PASS

(Plot I5: HSUPA 850MHz Channel = 4233, Test Antenna Horizontal)

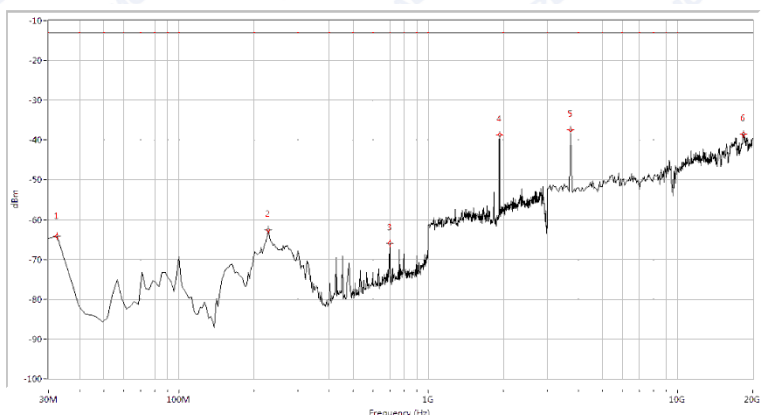


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
83.217	-60.43	-13.0	47.4	Vertical	PASS
148.529	-64.94	-13.0	51.9	Vertical	PASS
225.935	-60.75	-13.0	47.8	Vertical	PASS
891.147	-38.69	-13.0	25.7	Vertical	N.A
3145.885	-50.23	-13.0	37.2	Vertical	PASS
9710.723	-43.16	-13.0	30.2	Vertical	PASS

(Plot I6: HSUPA 850MHz Channel = 4233, Test Antenna Vertical)

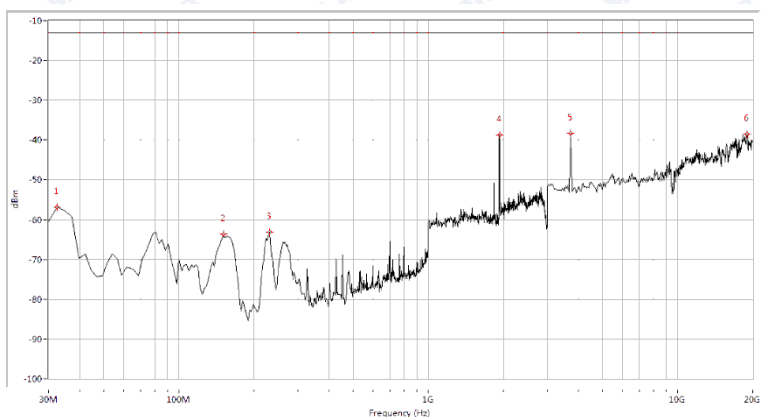


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-64.25	-13.0	51.2	Horizontal	PASS
228.354	-62.49	-13.0	49.5	Horizontal	PASS
700.050	-66.01	-13.0	53.0	Horizontal	PASS
1932.668	-38.61	-13.0	25.6	Horizontal	N.A
3720.698	-37.52	-13.0	24.5	Horizontal	PASS
18389.027	-38.56	-13.0	25.6	Horizontal	PASS

(Plot J1: HSUPA 1900MHz Channel = 9262, Test Antenna Horizontal)

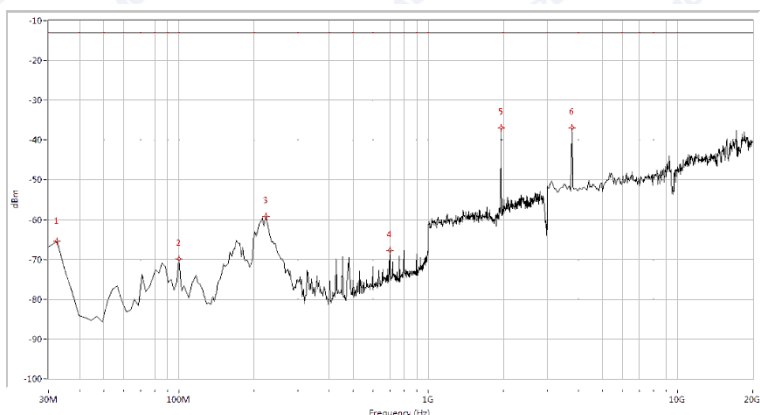


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.82	-13.0	43.8	Vertical	PASS
150.948	-63.65	-13.0	50.7	Vertical	PASS
230.773	-63.10	-13.0	50.1	Vertical	PASS
1932.668	-38.65	-13.0	25.6	Vertical	N.A
3720.698	-38.36	-13.0	25.4	Vertical	PASS
18940.150	-38.49	-13.0	25.5	Vertical	PASS

(Plot J2: HSUPA 1900MHz Channel = 9262, Test Antenna Vertical)

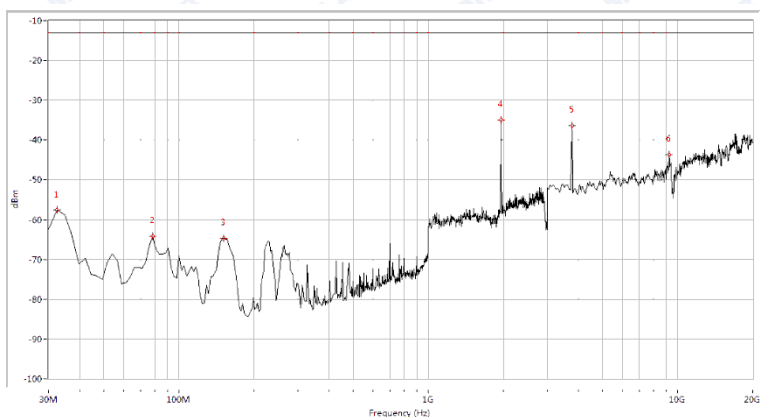


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-65.43	-13.0	52.4	Horizontal	PASS
100.150	-69.82	-13.0	56.8	Horizontal	PASS
223.516	-59.27	-13.0	46.3	Horizontal	PASS
700.050	-67.76	-13.0	54.8	Horizontal	PASS
1957.606	-36.91	-13.0	23.9	Horizontal	N.A
3763.092	-36.87	-13.0	23.9	Horizontal	PASS

(Plot J3: HSUPA 1900MHz Channel = 9400, Test Antenna Horizontal)

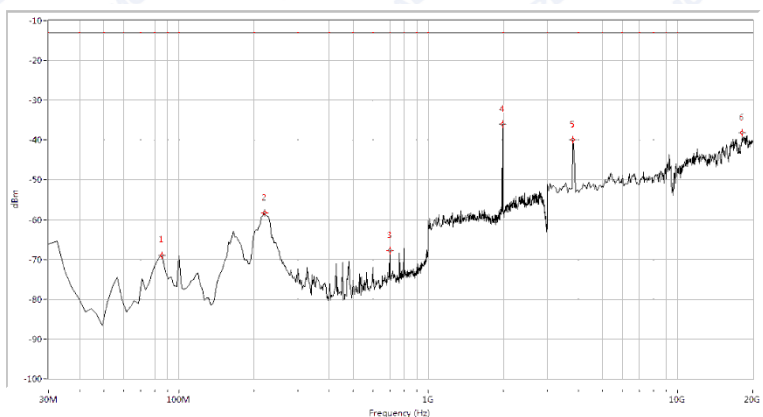


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-57.59	-13.0	44.6	Vertical	PASS
78.379	-64.09	-13.0	51.1	Vertical	PASS
150.948	-64.74	-13.0	51.7	Vertical	PASS
1957.606	-35.04	-13.0	22.0	Vertical	N.A
3763.092	-36.45	-13.0	23.5	Vertical	PASS
9231.920	-43.66	-13.0	30.7	Vertical	PASS

(Plot J4: HSUPA 1900MHz Channel = 9400, Test Antenna Vertical)

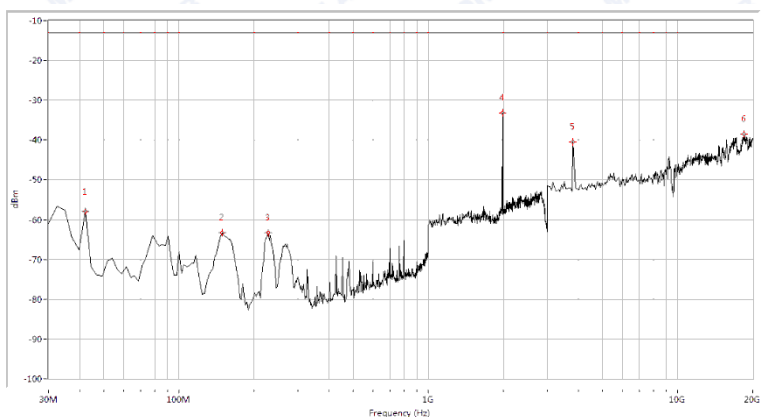


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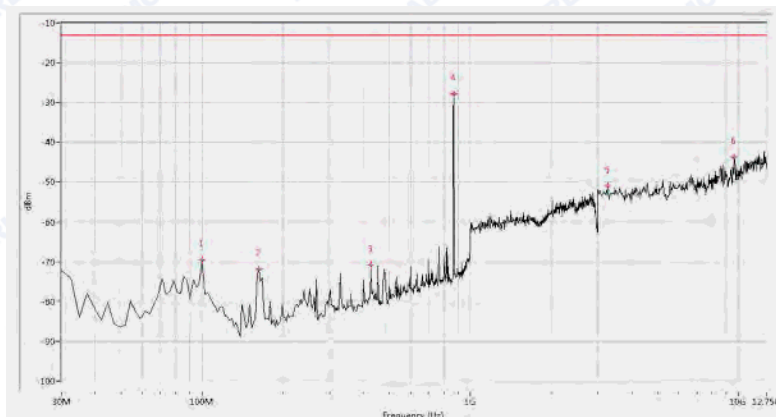
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
85.636	-69.02	-13.0	56.0	Horizontal	PASS
221.097	-58.30	-13.0	45.3	Horizontal	PASS
700.050	-67.69	-13.0	54.7	Horizontal	PASS
1982.544	-36.07	-13.0	23.1	Horizontal	N.A
3805.486	-39.95	-13.0	26.9	Horizontal	PASS
18134.663	-38.18	-13.0	25.2	Horizontal	PASS

(Plot J5: HSUPA 1900MHz Channel = 9538, Test Antenna Horizontal)



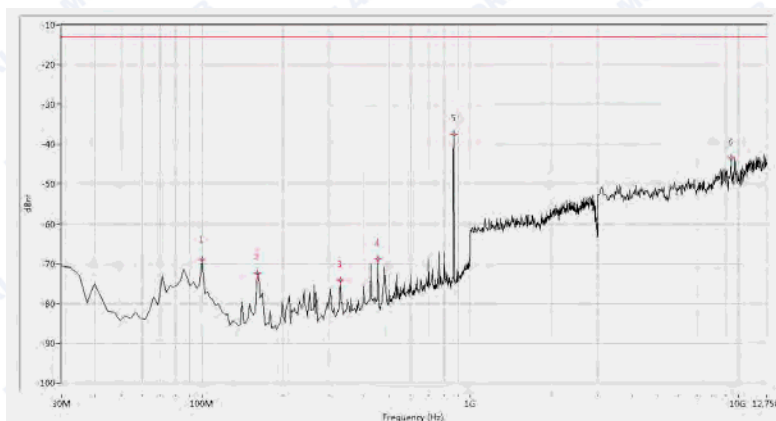
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
42.095	-57.94	-13.0	44.9	Vertical	PASS
148.529	-63.22	-13.0	50.2	Vertical	PASS
228.354	-63.27	-13.0	50.3	Vertical	PASS
1987.531	-33.21	-13.0	20.2	Vertical	N.A
3805.486	-40.49	-13.0	27.5	Vertical	PASS
18473.815	-38.55	-13.0	25.6	Vertical	PASS

(Plot J6: HSUPA 1900MHz Channel = 9538, Test Antenna Vertical)



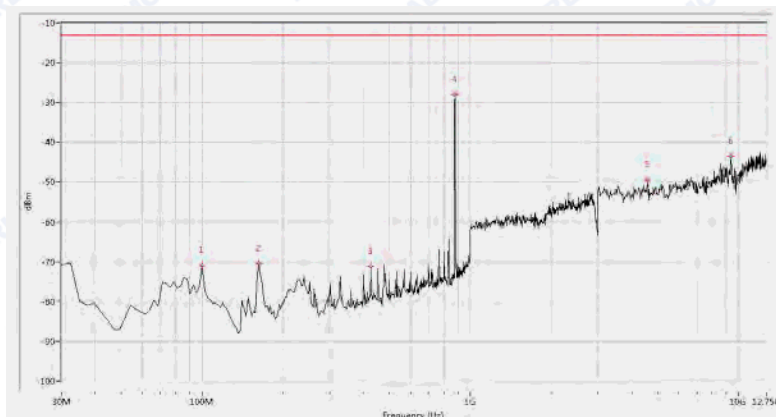
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.46	-13.0	56.5	Horizontal	PASS
163.042	-71.77	-13.0	58.8	Horizontal	PASS
426.708	-70.70	-13.0	57.7	Horizontal	PASS
869.377	-27.73	-13.0	14.7	Horizontal	N.A
3267.456	-50.90	-13.0	37.9	Horizontal	PASS
9662.095	-43.75	-13.0	30.7	Horizontal	PASS

(Plot K1: HSPA+ 850MHz Channel = 4132, Test Antenna Horizontal)



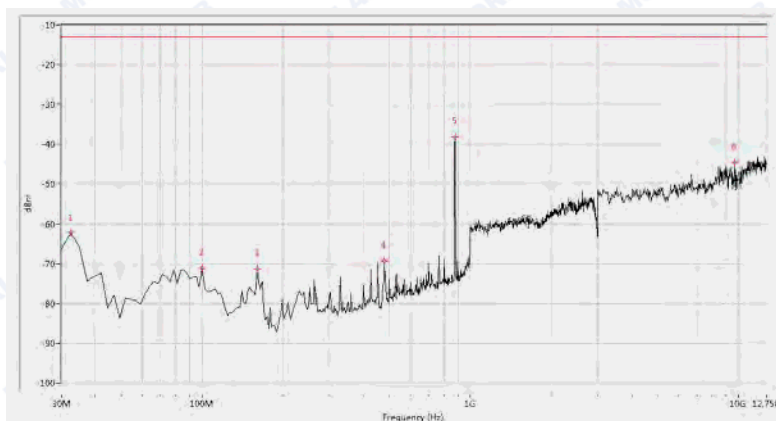
Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.01	-13.0	56.0	Vertical	PASS
160.623	-72.32	-13.0	59.3	Vertical	PASS
327.531	-74.18	-13.0	61.2	Vertical	PASS
453.317	-68.85	-13.0	55.9	Vertical	PASS
869.377	-37.48	-13.0	24.5	Vertical	N.A
9394.638	-43.58	-13.0	30.6	Vertical	PASS

(Plot K2: HSPA+ 850MHz Channel = 4132, Test Antenna Vertical)



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-70.93	-13.0	57.9	Horizontal	PASS
163.042	-70.35	-13.0	57.3	Horizontal	PASS
426.708	-71.21	-13.0	58.2	Horizontal	PASS
879.052	-28.00	-13.0	15.0	Horizontal	N.A
4580.424	-49.35	-13.0	36.4	Horizontal	PASS
9394.638	-43.52	-13.0	30.5	Horizontal	PASS

(Plot K3: HSPA+ 850MHz Channel = 4175, Test Antenna Horizontal)

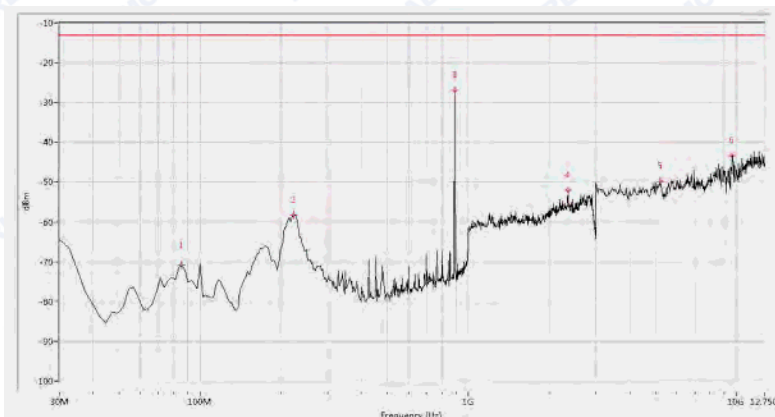


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-62.25	-13.0	49.3	Vertical	PASS
100.150	-71.13	-13.0	58.1	Vertical	PASS
160.623	-71.37	-13.0	58.4	Vertical	PASS
479.925	-69.26	-13.0	56.3	Vertical	PASS
879.052	-38.22	-13.0	25.2	Vertical	N.A
9710.723	-44.55	-13.0	31.6	Vertical	PASS

(Plot K4: HSPA+ 850MHz Channel = 4175, Test Antenna Vertical)

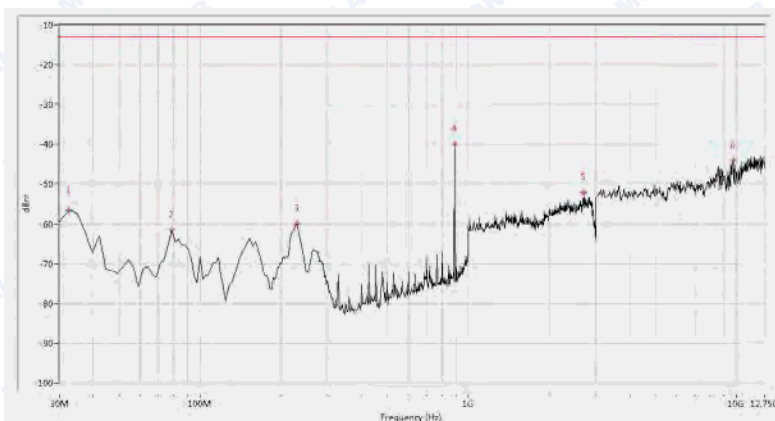


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
85.636	-70.72	-13.0	57.7	Horizontal	PASS
223.516	-58.27	-13.0	45.3	Horizontal	PASS
891.147	-26.98	-13.0	14.0	Horizontal	N.A
2356.608	-52.12	-13.0	39.1	Horizontal	PASS
5212.594	-49.79	-13.0	36.8	Horizontal	PASS
9662.095	-43.24	-13.0	30.2	Horizontal	PASS

(Plot K5: HSPA+ 850MHz Channel = 4233, Test Antenna Horizontal)

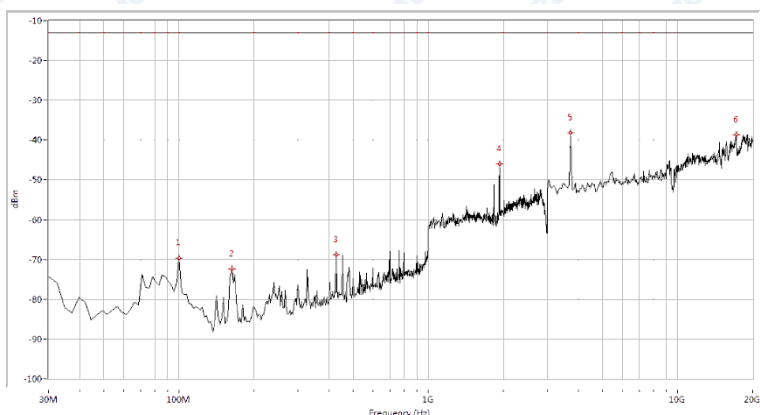


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.58	-13.0	43.6	Vertical	PASS
78.379	-61.48	-13.0	48.5	Vertical	PASS
230.773	-59.98	-13.0	47.0	Vertical	PASS
888.728	-40.02	-13.0	27.0	Vertical	N.A
2705.736	-52.11	-13.0	39.1	Vertical	PASS
9735.037	-43.98	-13.0	31.0	Vertical	PASS

(Plot K6: HSPA+ 850MHz Channel = 4233, Test Antenna Vertical)

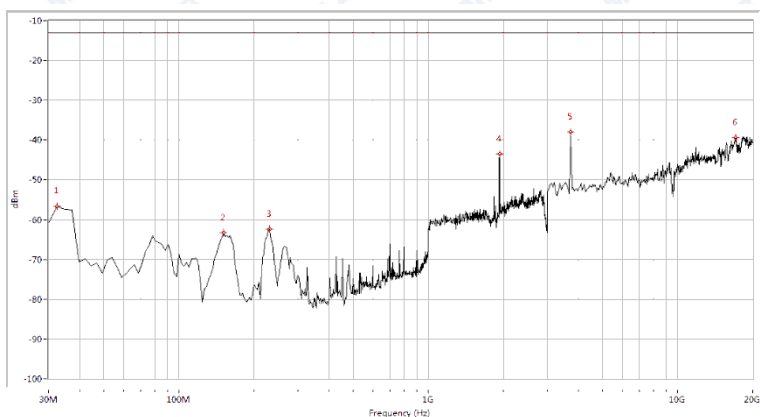


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.75	-13.0	56.7	Horizontal	PASS
163.042	-72.39	-13.0	59.4	Horizontal	PASS
426.708	-68.87	-13.0	55.9	Horizontal	PASS
1932.668	-45.96	-13.0	33.0	Horizontal	N.A
3720.698	-38.18	-13.0	25.2	Horizontal	PASS
17159.601	-38.69	-13.0	25.7	Horizontal	PASS

(Plot L1: HSPA+ 1900MHz Channel = 9262, Test Antenna Horizontal)

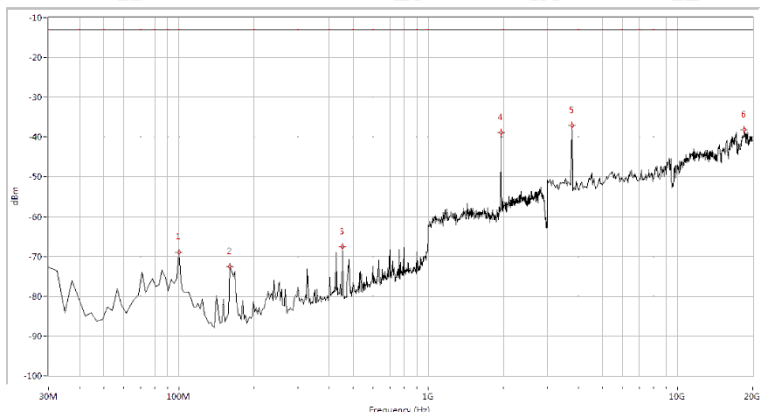


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-56.70	-13.0	43.7	Vertical	PASS
150.948	-63.30	-13.0	50.3	Vertical	PASS
230.773	-62.31	-13.0	49.3	Vertical	PASS
1932.668	-43.46	-13.0	30.5	Vertical	N.A
3720.698	-38.03	-13.0	25.0	Vertical	PASS
17117.207	-39.40	-13.0	26.4	Vertical	PASS

(Plot L2: HSPA+ 1900MHz Channel = 9262, Test Antenna Vertical)

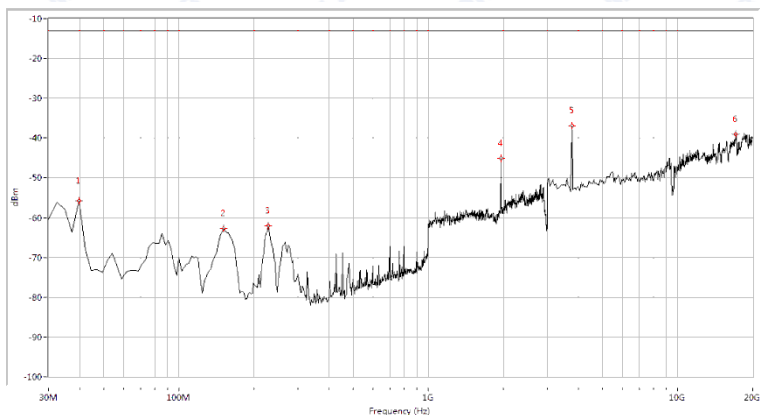


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-68.91	-13.0	55.9	Horizontal	PASS
160.623	-72.63	-13.0	59.6	Horizontal	PASS
453.317	-67.60	-13.0	54.6	Horizontal	PASS
1957.606	-38.79	-13.0	25.8	Horizontal	N.A
3763.092	-37.07	-13.0	24.1	Horizontal	PASS
18516.209	-38.19	-13.0	25.2	Horizontal	PASS

(Plot L3: HSPA+ 1900MHz Channel = 9400, Test Antenna Horizontal)

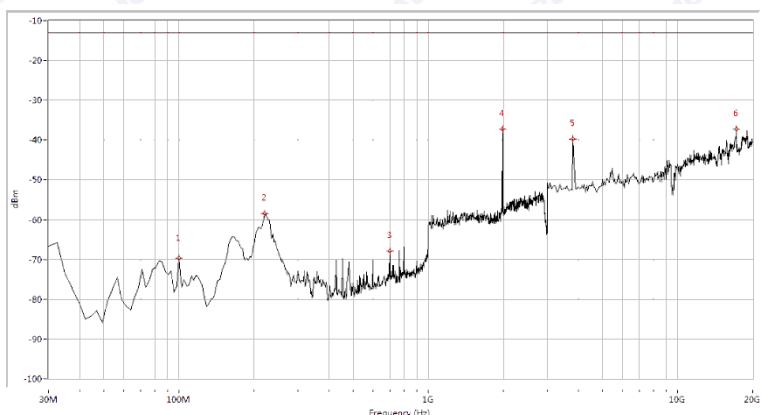


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
39.676	-55.85	-13.0	42.8	Vertical	PASS
150.948	-62.68	-13.0	49.7	Vertical	PASS
228.354	-62.11	-13.0	49.1	Vertical	PASS
1957.606	-45.13	-13.0	32.1	Vertical	N.A
3763.092	-36.86	-13.0	23.9	Vertical	PASS
17117.207	-39.02	-13.0	26.0	Vertical	PASS

(Plot L4: HSPA+ 1900MHz Channel = 9400, Test Antenna Vertical)

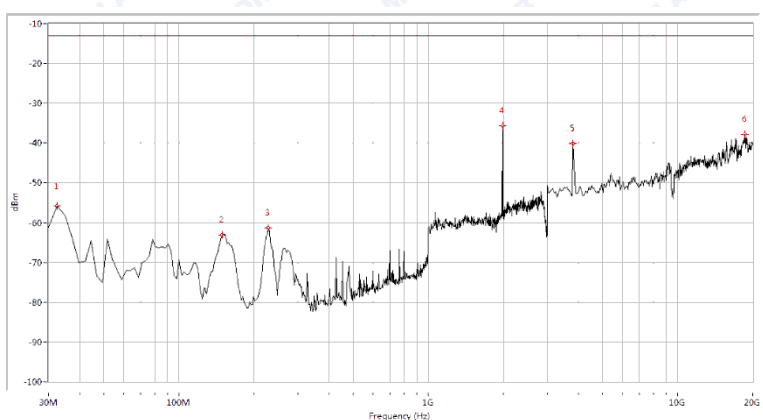


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Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.73	-13.0	56.7	Horizontal	PASS
221.097	-58.51	-13.0	45.5	Horizontal	PASS
700.050	-67.89	-13.0	54.9	Horizontal	PASS
1987.531	-37.22	-13.0	24.2	Horizontal	N.A
3805.486	-39.85	-13.0	26.8	Horizontal	PASS
17201.995	-37.34	-13.0	24.3	Horizontal	PASS

(Plot L5: HSPA+ 1900MHz Channel = 9538, Test Antenna Horizontal)



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-55.81	-13.0	42.8	Vertical	PASS
148.529	-63.19	-13.0	50.2	Vertical	PASS
228.354	-61.32	-13.0	48.3	Vertical	PASS
1982.544	-35.58	-13.0	22.6	Vertical	N.A
3805.486	-40.15	-13.0	27.2	Vertical	PASS
18643.392	-37.76	-13.0	24.8	Vertical	PASS

(Plot L6: HSPA+ 1900MHz Channel = 9538, Test Antenna Vertical)

***** END OF REPORT *****