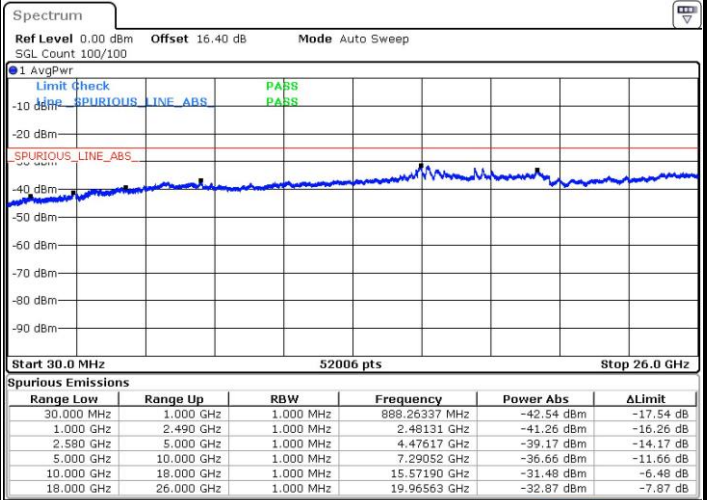
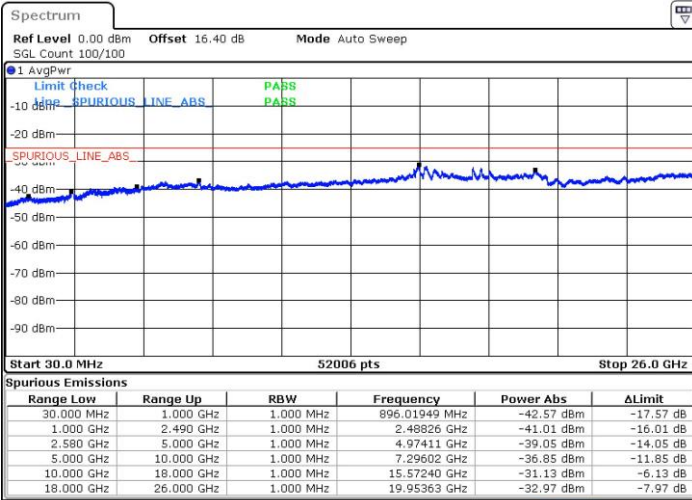




LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

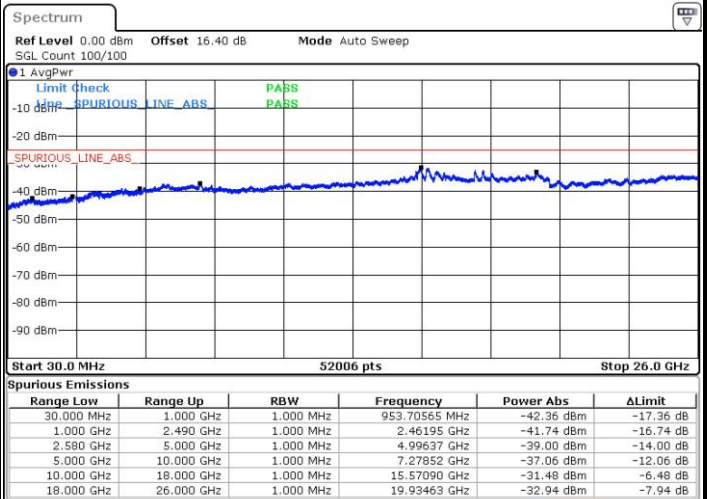
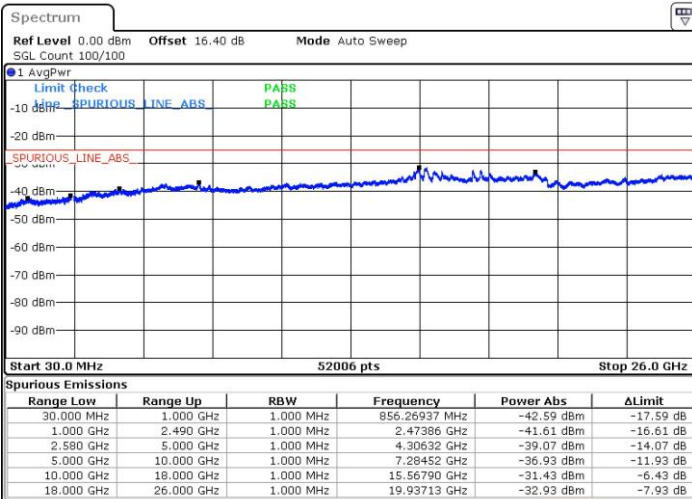


Date: 19.SEP.2018 11:36:22

Date: 19.SEP.2018 11:37:11

Middle Channel / QPSK

Middle Channel / 16QAM



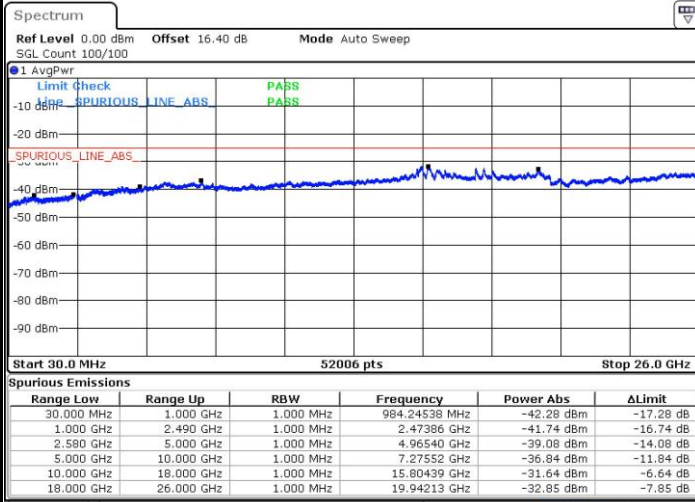
Date: 19.SEP.2018 11:42:01

Date: 19.SEP.2018 11:42:50



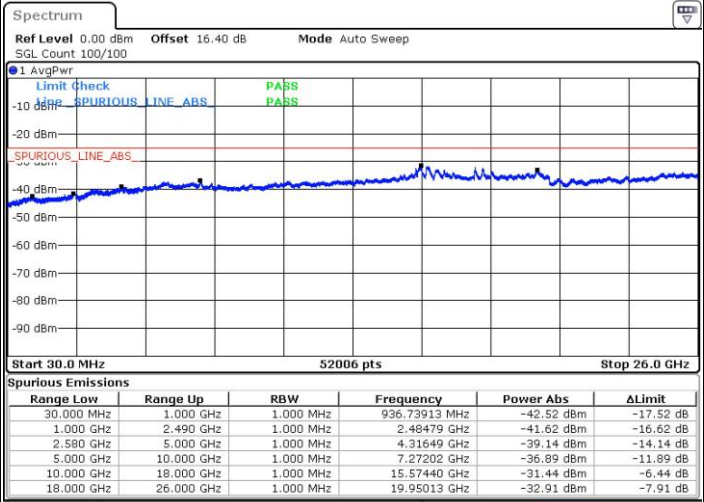
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 19_SEP.2018 11:46:24

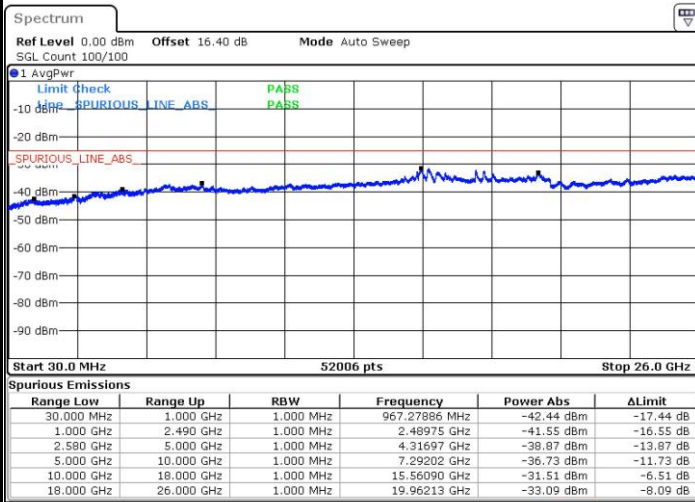
Highest Channel / 16QAM



Date: 19_SEP.2018 11:47:13

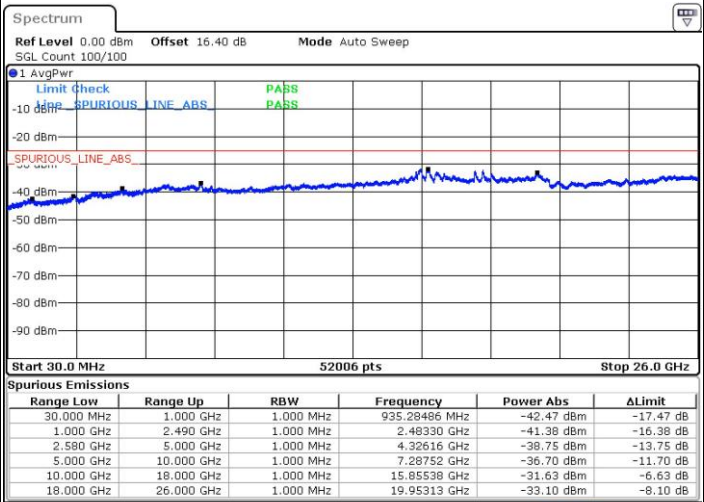
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 19_SEP.2018 13:36:22

Lowest Channel / 16QAM



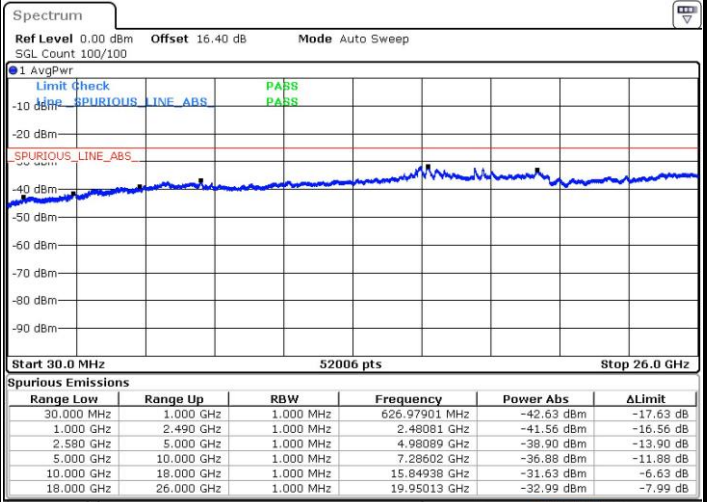
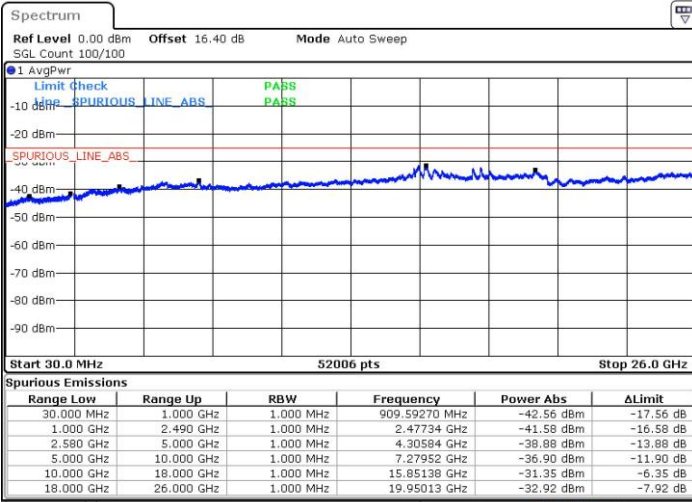
Date: 19_SEP.2018 13:37:11



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

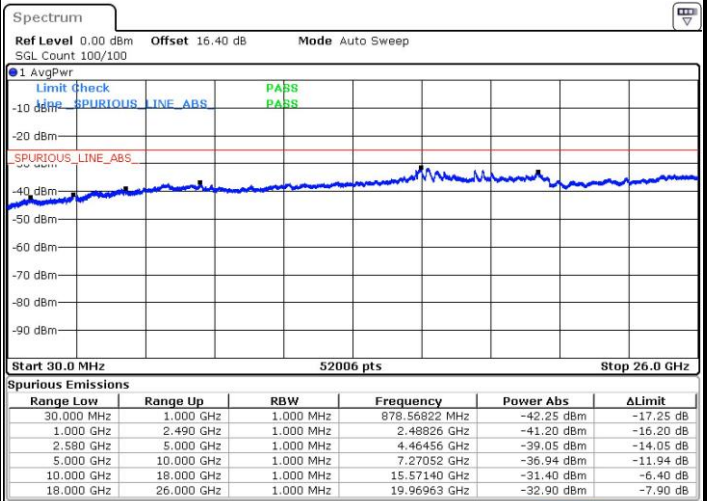
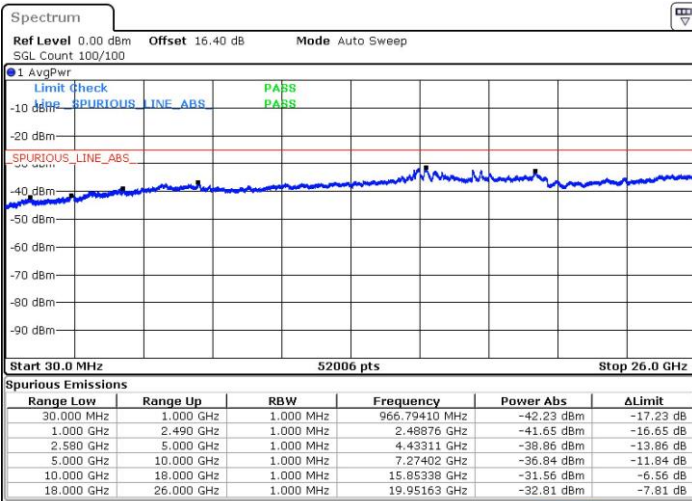


Date: 19.SEP.2018 13:38:46

Date: 19.SEP.2018 13:39:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.SEP.2018 13:43:09

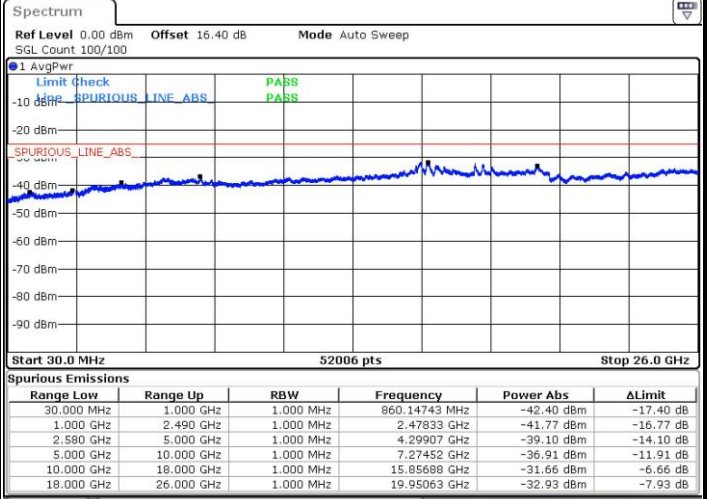
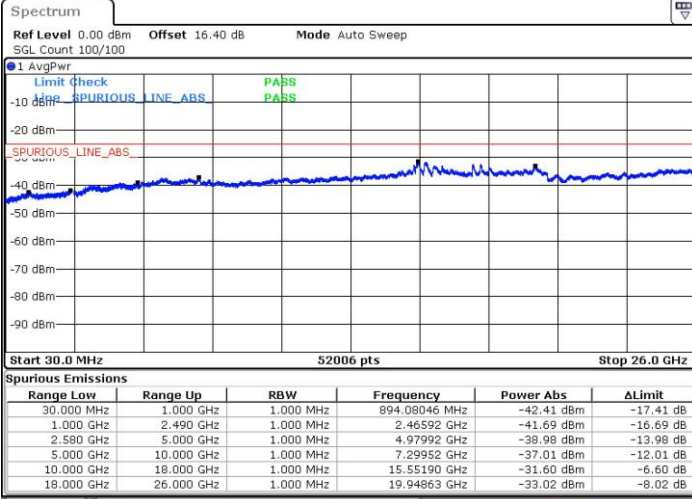
Date: 19.SEP.2018 13:43:58



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

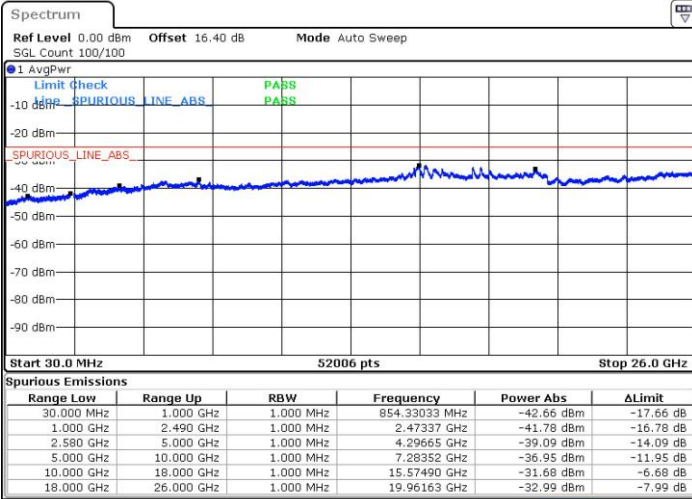
Middle Channel / 64QAM



Date: 19.SEP.2018 11:09:18

Date: 19.SEP.2018 11:10:30

Highest Channel / 64QAM



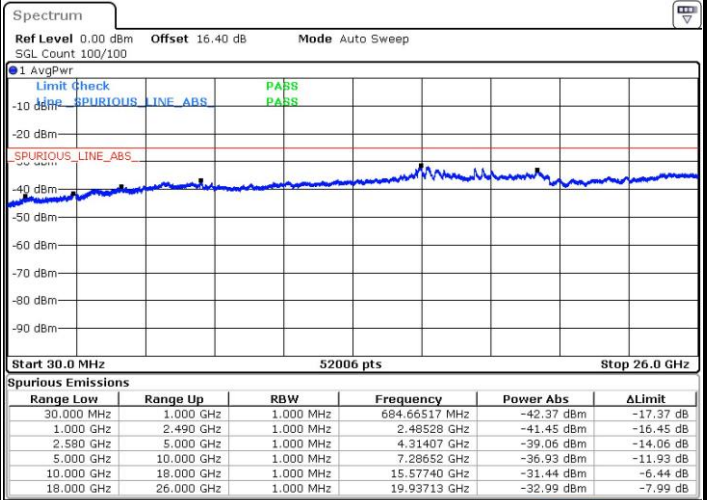
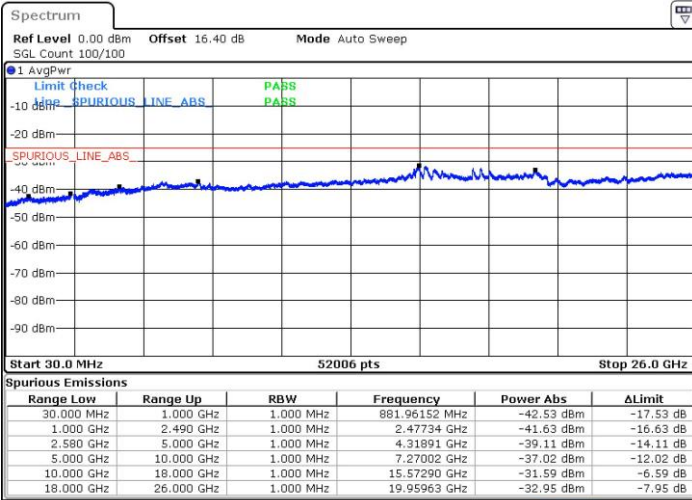
Date: 19.SEP.2018 11:12:42



LTE Band 7 / 10MHz

Lowest Channel / 64QAM

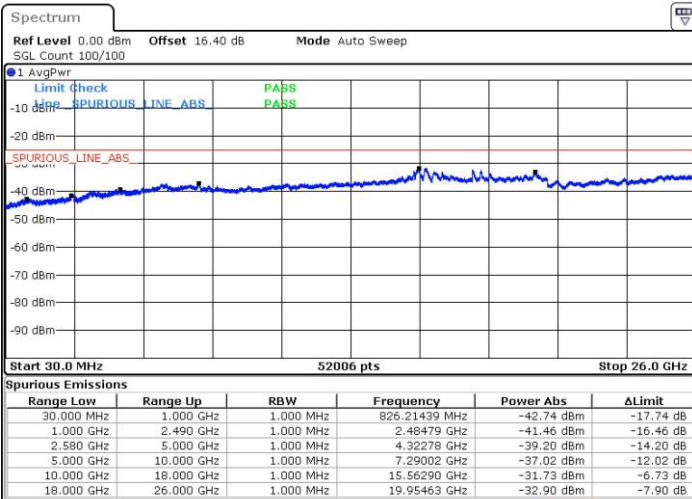
Middle Channel / 64QAM



Date: 19.SEP.2018 11:28:08

Date: 19.SEP.2018 11:29:20

Highest Channel / 64QAM



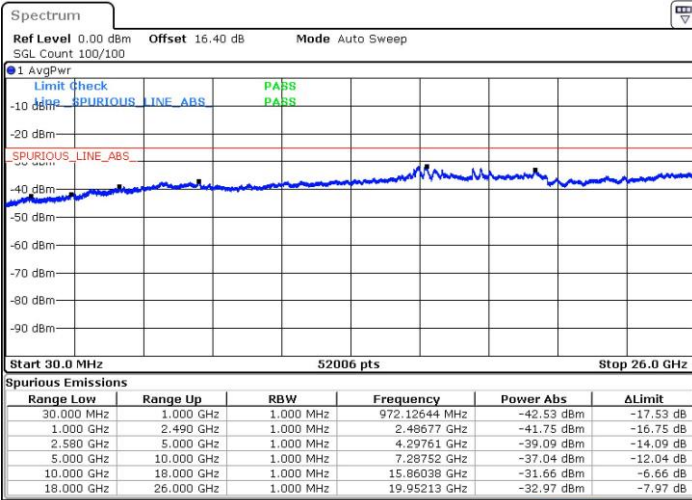
Date: 19.SEP.2018 11:31:32



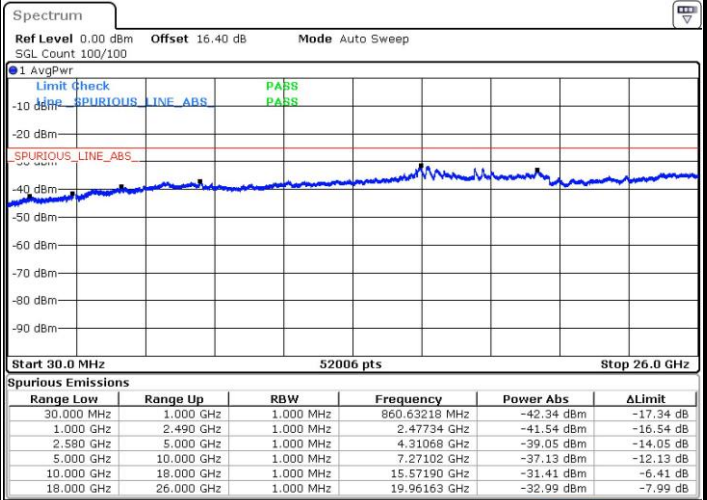
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

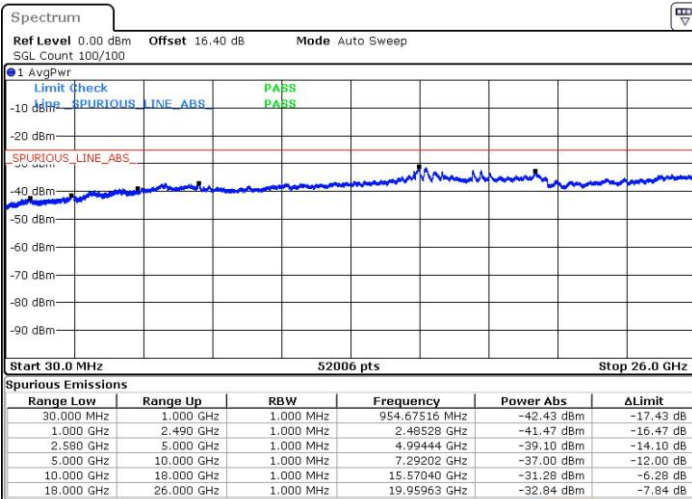


Date: 19.SEP.2018 11:49:25



Date: 19.SEP.2018 11:50:37

Highest Channel / 64QAM



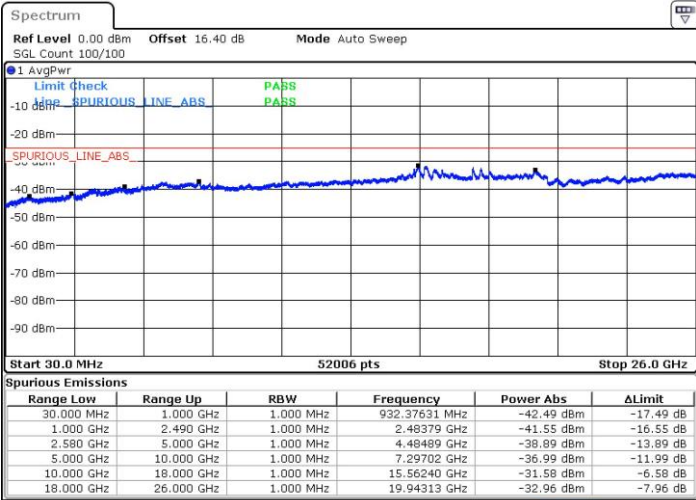
Date: 19.SEP.2018 11:52:48



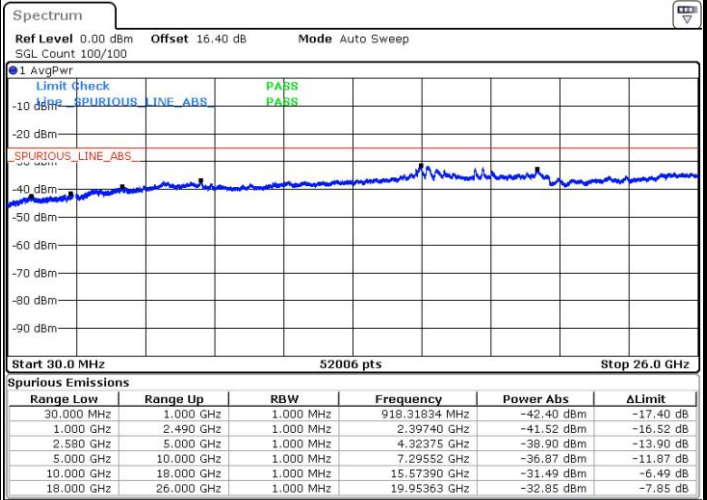
LTE Band 7 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

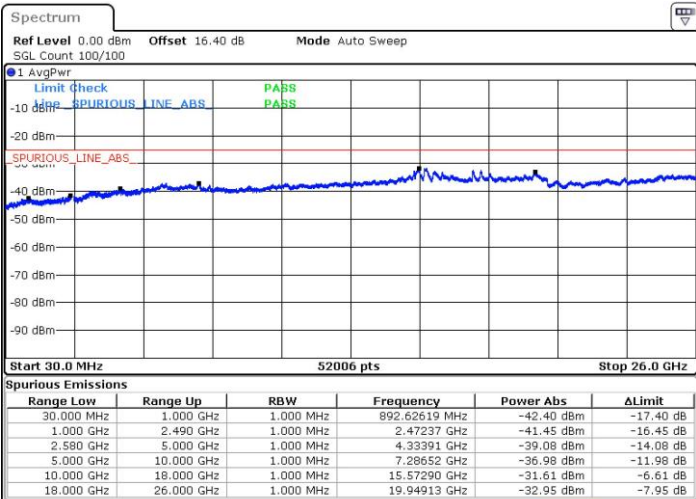


Date: 19.SEP.2018 13:46:10



Date: 19.SEP.2018 13:47:22

Highest Channel / 64QAM



Date: 19.SEP.2018 13:49:33



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	3	22.69	0.1858	22.89	0.1945
Middle		1	3	22.77	0.1892	22.97	0.1982
Highest		1	3	22.65	0.1841	22.85	0.1928
Lowest	16QAM	1	0	21.95	0.1567	22.15	0.1641
Middle		1	0	21.96	0.1570	22.16	0.1644
Highest		1	0	21.81	0.1517	22.01	0.1589
Lowest	64QAM	1	3	20.95	0.1245	21.15	0.1303
Middle		1	3	20.88	0.1225	21.08	0.1282
Highest		1	3	20.89	0.1227	21.09	0.1285
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.70	0.1862	22.90	0.1950
Middle		1	0	22.78	0.1897	22.98	0.1986
Highest		1	0	22.46	0.1762	22.66	0.1845
Lowest	16QAM	1	8	21.74	0.1493	21.94	0.1563
Middle		1	8	21.87	0.1538	22.07	0.1611
Highest		1	8	21.61	0.1449	21.81	0.1517
Lowest	64QAM	1	0	20.79	0.1199	20.99	0.1256
Middle		1	0	20.99	0.1256	21.19	0.1315
Highest		1	0	20.74	0.1186	20.94	0.1242
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.66	0.1845	22.86	0.1932
Middle		1	12	22.80	0.1905	23.00	0.1995
Highest		1	12	22.59	0.1816	22.79	0.1901
Lowest	16QAM	1	0	21.99	0.1581	22.19	0.1656
Middle		1	0	21.82	0.1521	22.02	0.1592
Highest		1	0	21.98	0.1578	22.18	0.1652
Lowest	64QAM	1	0	20.83	0.1211	21.03	0.1268
Middle		1	0	20.94	0.1242	21.14	0.1300
Highest		1	0	20.80	0.1202	21.00	0.1259
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.76	0.1888	22.96	0.1977
Middle		1	49	22.79	0.1901	22.99	0.1991
Highest		1	49	22.57	0.1807	22.77	0.1892
Lowest	16QAM	1	25	21.72	0.1486	21.92	0.1556
Middle		1	25	21.92	0.1556	22.12	0.1629
Highest		1	25	21.76	0.1500	21.96	0.1570
Lowest	64QAM	1	0	20.75	0.1189	20.95	0.1245
Middle		1	0	20.96	0.1247	21.16	0.1306
Highest		1	0	20.75	0.1189	20.95	0.1245
Limit	EIRP < 2W		Result		PASS		

LTE Band 2 / 15MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.66	0.1845	22.86	0.1932
Middle		1	0	22.78	0.1897	22.98	0.1986
Highest		1	0	22.69	0.1858	22.89	0.1945
Lowest	16QAM	1	37	21.70	0.1479	21.90	0.1549
Middle		1	37	21.93	0.1560	22.13	0.1633
Highest		1	37	21.75	0.1496	21.95	0.1567
Lowest	64QAM	1	0	20.67	0.1167	20.87	0.1222
Middle		1	0	20.88	0.1225	21.08	0.1282
Highest		1	0	20.80	0.1202	21.00	0.1259
Limit	EIRP < 2W		Result		PASS		

LTE Band 2 / 20MHz (Average) (GT - LC = 0.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.80	0.1905	23.00	0.1995
Middle		1	49	22.81	0.1910	23.01	0.2000
Highest		1	49	22.72	0.1871	22.92	0.1959
Lowest	16QAM	1	0	21.96	0.1570	22.16	0.1644
Middle		1	0	21.88	0.1542	22.08	0.1614
Highest		1	0	21.99	0.1581	22.19	0.1656
Lowest	64QAM	1	99	21.00	0.1259	21.20	0.1318
Middle		1	99	20.89	0.1227	21.09	0.1285
Highest		1	99	20.83	0.1211	21.03	0.1268
Limit	EIRP < 2W		Result		PASS		



LTE Band 5 / 1.4MHz (Average) (GT - LC = -3.22 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	24.09	0.2564	18.72	0.0745
Middle		3	1	23.64	0.2312	18.27	0.0671
Highest		3	1	23.66	0.2323	18.29	0.0675
Lowest	16QAM	1	3	23.34	0.2158	17.97	0.0627
Middle		1	3	22.93	0.1963	17.56	0.0570
Highest		1	3	22.72	0.1871	17.35	0.0543
Lowest	64QAM	3	1	22.28	0.1690	16.91	0.0491
Middle		3	1	21.87	0.1538	16.50	0.0447
Highest		3	1	21.72	0.1486	16.35	0.0432
Limit	ERP < 7W		Result		PASS		

LTE Band 5 / 3MHz (Average) (GT - LC = -3.22 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.02	0.2523	18.65	0.0733
Middle		1	0	23.61	0.2296	18.24	0.0667
Highest		1	0	23.62	0.2301	18.25	0.0668
Lowest	16QAM	1	8	23.32	0.2148	17.95	0.0624
Middle		1	8	22.93	0.1963	17.56	0.0570
Highest		1	8	22.72	0.1871	17.35	0.0543
Lowest	64QAM	1	8	22.29	0.1694	16.92	0.0492
Middle		1	8	21.90	0.1549	16.53	0.0450
Highest		1	8	21.71	0.1483	16.34	0.0431
Limit	ERP < 7W		Result		PASS		

LTE Band 5 / 5MHz (Average) (GT - LC = -3.22 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.00	0.2512	18.63	0.0729
Middle		1	0	23.61	0.2296	18.24	0.0667
Highest		1	0	23.61	0.2296	18.24	0.0667
Lowest	16QAM	1	0	23.28	0.2128	17.91	0.0618
Middle		1	0	22.95	0.1972	17.58	0.0573
Highest		1	0	22.83	0.1919	17.46	0.0557
Lowest	64QAM	1	0	22.27	0.1687	16.90	0.0490
Middle		1	0	21.91	0.1552	16.54	0.0451
Highest		1	0	21.79	0.1510	16.42	0.0439
Limit	ERP < 7W		Result		PASS		



LTE Band 5 / 10MHz (Average) (GT - LC = -3.22 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.10	0.2570	18.73	0.0746
Middle		1	0	23.72	0.2355	18.35	0.0684
Highest		1	0	23.64	0.2312	18.27	0.0671
Lowest	16QAM	1	0	23.28	0.2128	17.91	0.0618
Middle		1	0	23.06	0.2023	17.69	0.0587
Highest		1	0	22.87	0.1936	17.50	0.0562
Lowest	64QAM	1	0	22.25	0.1679	16.88	0.0488
Middle		1	0	22.01	0.1589	16.64	0.0461
Highest		1	0	21.83	0.1524	16.46	0.0443
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -0.42 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	23.86	0.2432	23.44	0.2208
Middle		1	24	23.83	0.2415	23.41	0.2193
Highest		1	24	23.76	0.2377	23.34	0.2158
Lowest	16QAM	1	24	23.23	0.2104	22.81	0.1910
Middle		1	24	23.24	0.2109	22.82	0.1914
Highest		1	24	23.04	0.2014	22.62	0.1828
Lowest	64QAM	1	24	22.14	0.1637	21.72	0.1486
Middle		1	24	22.13	0.1633	21.71	0.1483
Highest		1	24	21.99	0.1581	21.57	0.1435
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -0.42 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.87	0.2438	23.45	0.2213
Middle		1	49	23.95	0.2483	23.53	0.2254
Highest		1	49	23.85	0.2427	23.43	0.2203
Lowest	16QAM	1	49	23.42	0.2198	23.00	0.1995
Middle		1	49	23.31	0.2143	22.89	0.1945
Highest		1	49	23.18	0.2080	22.76	0.1888
Lowest	64QAM	1	49	22.33	0.1710	21.91	0.1552
Middle		1	49	22.20	0.1660	21.78	0.1507
Highest		1	49	22.07	0.1611	21.65	0.1462
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -0.42 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.99	0.2506	23.57	0.2275
Middle		1	0	23.87	0.2438	23.45	0.2213
Highest		1	0	23.79	0.2393	23.37	0.2173
Lowest	16QAM	1	74	23.47	0.2223	23.05	0.2018
Middle		1	74	23.44	0.2208	23.02	0.2004
Highest		1	74	23.30	0.2138	22.88	0.1941
Lowest	64QAM	1	74	22.38	0.1730	21.96	0.1570
Middle		1	74	22.28	0.1690	21.86	0.1535
Highest		1	74	22.15	0.1641	21.73	0.1489
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -0.42 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.05	0.2541	23.63	0.2307
Middle		1	0	23.96	0.2489	23.54	0.2259
Highest		1	0	23.89	0.2449	23.47	0.2223
Lowest	16QAM	1	99	23.33	0.2153	22.91	0.1954
Middle		1	99	23.33	0.2153	22.91	0.1954
Highest		1	99	23.20	0.2089	22.78	0.1897
Lowest	64QAM	1	99	22.27	0.1687	21.85	0.1531
Middle		1	99	22.28	0.1690	21.86	0.1535
Highest		1	99	22.14	0.1637	21.72	0.1486
Limit	EIRP < 2W			Result		PASS	



Radiated Spurious Emission

LTE Band 2

LTE Band 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-53.64	-13	-40.64	-74.61	-60.21	1.67	8.24	H
	5556	-51.31	-13	-38.31	-76.69	-58.38	2.66	9.72	H
	7404	-46.48	-13	-33.48	-73.58	-55.63	2.46	11.61	H
	9252	-39.19	-13	-26.19	-70.73	-49.25	2.54	12.60	H
	11100	-35.24	-13	-22.24	-69.7	-45.01	2.69	12.46	H
									H
									H
	3702	-57.25	-13	-44.25	-78.1	-63.82	1.67	8.24	V
	5556	-52.01	-13	-39.01	-77.29	-59.08	2.66	9.72	V
	7404	-49.96	-13	-36.96	-77.31	-59.11	2.46	11.61	V
	9252	-41.73	-13	-28.73	-72.79	-51.79	2.54	12.60	V
	11100	-41.33	-13	-28.33	-75.63	-51.1	2.69	12.46	V
									V
									V



Middle	3744	-55.74	-13	-42.74	-76.57	-62.35	1.68	8.29	H
	5616	-52.43	-13	-39.43	77.9	-59.48	2.69	9.75	H
	7482	-43.04	-13	-30.04	-70.4	-52.37	2.44	11.76	H
	9357	-41.22	-13	-28.22	-72.1	-51.22	2.56	12.56	H
	11220	-40.79	-13	-27.79	-75.35	-50.52	2.69	12.41	H
									H
									H
	3744	-58.71	-13	-45.71	-79.56	-65.32	1.68	8.29	V
	5616	-52.73	-13	-39.73	-78.23	-59.78	2.69	9.75	V
	7482	-47.56	-13	-34.56	-75.09	-56.89	2.44	11.76	V
	9357	-41.72	-13	-28.72	-73.02	-51.72	2.56	12.56	V
	11220	-42.81	-13	-29.81	-77.29	-52.54	2.69	12.41	V
									V
									V
Highest	3780	-54.25	-13	-41.25	-75.15	-60.89	1.69	8.34	H
	5676	-50.05	-13	-37.05	-75.61	-57.09	2.73	9.77	H
	7566	-43.61	-13	-30.61	-71.03	-53.04	2.41	11.84	H
	9451	-40.32	-13	-27.32	-71.32	-50.26	2.58	12.52	H
	11352	-38.19	-13	-25.19	-73.06	-47.87	2.68	12.36	H
									H
									H
	3780	-57.23	-13	-44.23	-78.21	-63.87	1.69	8.34	V
	5676	-50.64	-13	-37.64	-76.25	-57.68	2.73	9.77	V
	7566	-46.14	-13	-33.14	-73.69	-55.57	2.41	11.84	V
	9451	-40.49	-13	-27.49	-71.88	-50.43	2.58	12.52	V
	11352	-43.13	-13	-30.13	-77.9	-52.81	2.68	12.36	V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-63.61	-13	-50.61	-75.94	-65.37	0.98	4.89	H
	2472	-48.33	-13	-35.33	-65.86	-50.21	1.28	5.32	H
	3296	-59.45	-13	-46.45	-79.06	-62.86	1.54	7.10	H
									H
									H
									H
									H
	1648	-62.79	-13	-49.79	-75.59	-64.55	0.98	4.89	V
	2472	-47.09	-13	-34.09	-65.06	-48.97	1.28	5.32	V
	1648	-62.79	-13	-49.79	-75.59	-64.55	0.98	4.89	V
									V
									V
									V
									V
Middle	1664	-63.72	-13	-50.72	-76.2	-65.43	0.98	4.84	H
	2496	-46.95	-13	-33.95	-64.54	-48.9	1.29	5.39	H
	3328	-59.56	-13	-46.56	-79.34	-63.1	1.55	7.24	H
	4160	-57.24	-13	-44.24	-78.14	-61.87	1.85	8.63	H
									H
									H
									H
	1664	-62.88	-13	-49.88	-75.83	-64.59	0.98	4.84	V
	2496	-46.84	-13	-33.84	-64.88	-48.79	1.29	5.39	V
	3328	-59.43	-13	-46.43	-79.46	-62.97	1.55	7.24	V
	4160	-58.08	-13	-45.08	-79.12	-62.71	1.85	8.63	V
									V
									V
									V



Highest	1680	-63.31	-13	-50.31	-75.93	-64.96	0.99	4.80	H
	2520	-49.12	-13	-36.12	-66.72	-51.09	1.30	5.42	H
	3358	-59.52	-13	-46.52	-79.47	-63.19	1.56	7.38	H
									H
									H
									H
									H
	1679	-63.53	-13	-50.53	-76.61	-65.19	0.99	4.80	V
	2520	-48.67	-13	-35.67	-66.73	-50.64	1.30	5.42	V
	3360	-59.29	-13	-46.29	-79.41	-62.96	1.56	7.38	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7

LTE Band 7 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-50.48	-25	-25.48	-74.17	-57.84	2.34	9.70	H
	7500	-42.26	-25	-17.26	-69.4	-51.63	2.43	11.80	H
	10008	-35.88	-25	-10.88	-67.34	-45.39	2.70	12.20	H
									H
									H
									H
									H
	5004	-49.08	-25	-24.08	-72.66	-56.44	2.34	9.70	V
	7500	-40.78	-25	-15.78	-68.21	-50.15	2.43	11.80	V
	10008	-34.82	-25	-9.82	-66.23	-44.33	2.70	12.20	V
									V
									V
									V
									V
Middle	5064	-49.74	-25	-24.74	-73.63	-57.07	2.37	9.70	H
	7596	-39.86	-25	-14.86	-67.3	-49.32	2.40	11.86	H
	10134	-31.88	-25	-6.88	-63.67	-41.44	2.70	12.25	H
									H
									H
									H
									H
	5064	-47.89	-25	-22.89	-71.61	-55.22	2.37	9.70	V
	7596	-42.32	-25	-17.32	-70.02	-51.78	2.40	11.86	V
	10134	-30.57	-25	-5.57	-62.26	-40.13	2.70	12.25	V
									V
									V
									V
									V



Highest	5130	-52.58	-25	-27.58	-76.64	-59.87	2.41	9.70	H
	7698	-42.94	-25	-17.94	-70.61	-52.49	2.37	11.92	H
	10260	-31.48	-25	-6.48	-63.62	-41.09	2.69	12.30	H
									H
									H
									H
									H
	5130	-50.66	-25	-25.66	-74.56	-57.95	2.41	9.70	V
	7698	-42.41	-25	-17.41	-70.33	-51.96	2.37	11.92	V
	10260	-30.94	-25	-5.94	-62.97	-40.55	2.69	12.30	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-48.28	-25	-23.28	-72.03	-55.64	2.34	9.70	H
	7500	-39.06	-25	-14.06	-66.2	-48.43	2.43	11.80	H
	10008	-35.41	-25	-10.41	-66.88	-44.92	2.70	12.20	H
									H
									H
									H
									H
	5004	-42.33	-25	-17.33	-65.95	-49.69	2.34	9.70	V
	7500	-37.77	-25	-12.77	-65.13	-47.14	2.43	11.80	V
	10008	-33.86	-25	-8.86	-65.26	-43.37	2.70	12.20	V
									V
									V
									V
									V
Middle	5064	-48.52	-25	-23.52	-72.43	-55.85	2.37	9.70	H
	7590	-40.31	-25	-15.31	-67.74	-49.76	2.40	11.85	H
	10116	-31.63	-25	-6.63	-63.44	-41.18	2.70	12.25	H
									H
									H
									H
									H
	5064	-43.31	-25	-18.31	-67.11	-50.64	2.37	9.70	V
	7590	-40.89	-25	-15.89	-68.61	-50.34	2.40	11.85	V
	10116	-30.98	-25	-5.98	-62.64	-40.53	2.70	12.25	V
									V
									V
									V
									V



Highest	5124	-48.33	-25	-23.33	-72.37	-55.62	2.41	9.70	H
	7680	-37.58	-25	-12.58	-65.19	-47.12	2.37	11.91	H
	10242	-31.48	-25	-6.48	-63.53	-41.08	2.69	12.30	H
									H
									H
									H
									H
	5124	-43.57	-25	-18.57	-67.49	-50.86	2.41	9.70	V
	7680	-38.98	-25	-13.98	-66.93	-48.52	2.37	11.91	V
	10242	-30.46	-25	-5.46	-62.47	-40.06	2.69	12.30	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-47.33	-25	-22.33	-71.12	-54.69	2.34	9.70	H
	7500	-38.96	-25	-13.96	-66.13	-48.33	2.43	11.80	H
	10008	-34.72	-25	-9.72	-66.2	-44.23	2.70	12.20	H
									H
									H
									H
									H
	5004	-41.86	-25	-16.86	-65.44	-49.22	2.34	9.70	V
	7500	-38.67	-25	-13.67	-66.08	-48.04	2.43	11.80	V
	10008	-33.06	-25	-8.06	-64.5	-42.57	2.70	12.20	V
									V
									V
									V
									V
Middle	5058	-50.02	-25	-25.02	-73.92	-57.35	2.37	9.70	H
	7584	-34.71	-25	-9.71	-61.99	-44.16	2.40	11.85	H
	10116	-32.58	-25	-7.58	-64.29	-42.13	2.70	12.25	H
									H
									H
									H
									H
	5058	-45.48	-25	-20.48	-69.2	-52.81	2.37	9.70	V
	7584	-39.49	-25	-14.49	-67.07	-48.94	2.40	11.85	V
	10116	-31.67	-25	-6.67	-63.36	-41.22	2.70	12.25	V
									V
									V
									V
									V



Highest	5112	-48.66	-25	-23.66	-72.66	-55.96	2.40	9.70	H
	7668	-36.55	-25	-11.55	-64.17	-46.08	2.38	11.90	H
	10224	-30.98	-25	-5.98	-63.06	-40.57	2.69	12.29	H
									H
									H
									H
									H
	5112	-43.41	-25	-18.41	-67.27	-50.71	2.40	9.70	V
	7668	-37.28	-25	-12.28	-65.06	-46.81	2.38	11.90	V
	10224	-30.48	-25	-5.48	-62.44	-40.07	2.69	12.29	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 7 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-49.67	-25	-24.67	-73.45	-57.03	2.34	9.70	H
	7506	-38.34	-25	-13.34	-65.55	-47.72	2.43	11.80	H
	10008	-36.13	-25	-11.13	-67.62	-45.64	2.70	12.20	H
									H
									H
									H
									H
	5004	-42.98	-25	-17.98	-66.59	-50.34	2.34	9.70	V
	7506	-36.28	-25	-11.28	-64.64	-45.66	2.43	11.80	V
	10008	-34.63	-25	-9.63	-66.03	-44.14	2.70	12.20	V
									V
									V
									V
									V
Middle	5052	-49.33	-25	-24.33	-73.19	-56.66	2.37	9.70	H
	7578	-41.53	-25	-16.53	-68.89	-50.97	2.40	11.85	H
	10098	-34.28	-25	-9.28	-65.99	-43.82	2.70	12.24	H
									H
									H
									H
									H
	5052	-43.96	-25	-18.96	-67.68	-51.29	2.37	9.70	V
	7578	-41.08	-25	-16.08	-68.72	-50.52	2.40	11.85	V
	10098	-30.54	-25	-5.54	-62.23	-40.08	2.70	12.24	V
									V
									V
									V
									V



Highest	5100	-48.76	-25	-23.76	-72.79	-56.07	2.39	9.70	H
	7656	-33.75	-25	-8.75	-61.32	-43.26	2.38	11.89	H
	10206	-34.73	-25	-9.73	-66.75	-44.32	2.70	12.28	H
									H
									H
									H
									H
	5100	-44.28	-25	-19.28	-68.07	-51.59	2.39	9.70	V
	7656	-33.67	-25	-8.67	-61.51	-43.18	2.38	11.89	V
	10206	-29.28	-25	-4.28	-61.2	-38.87	2.70	12.28	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

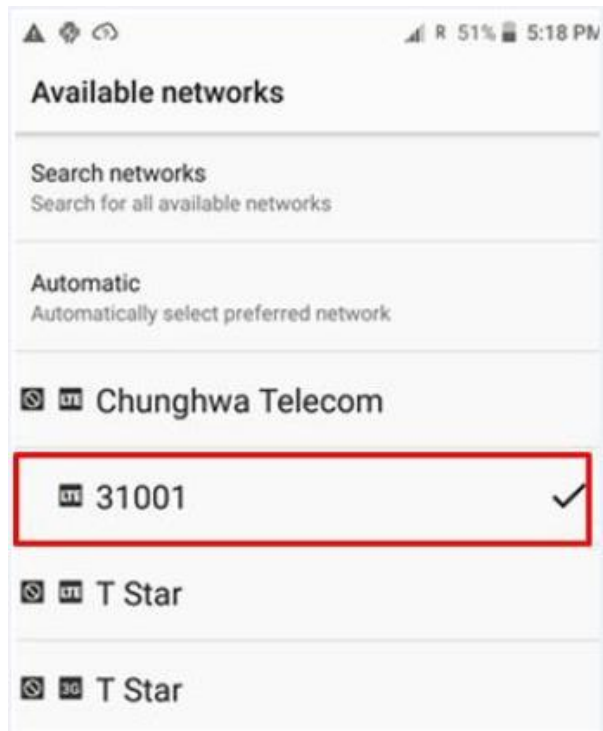
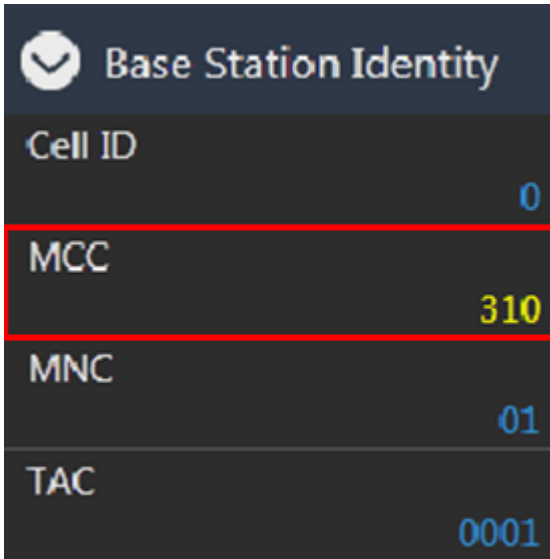
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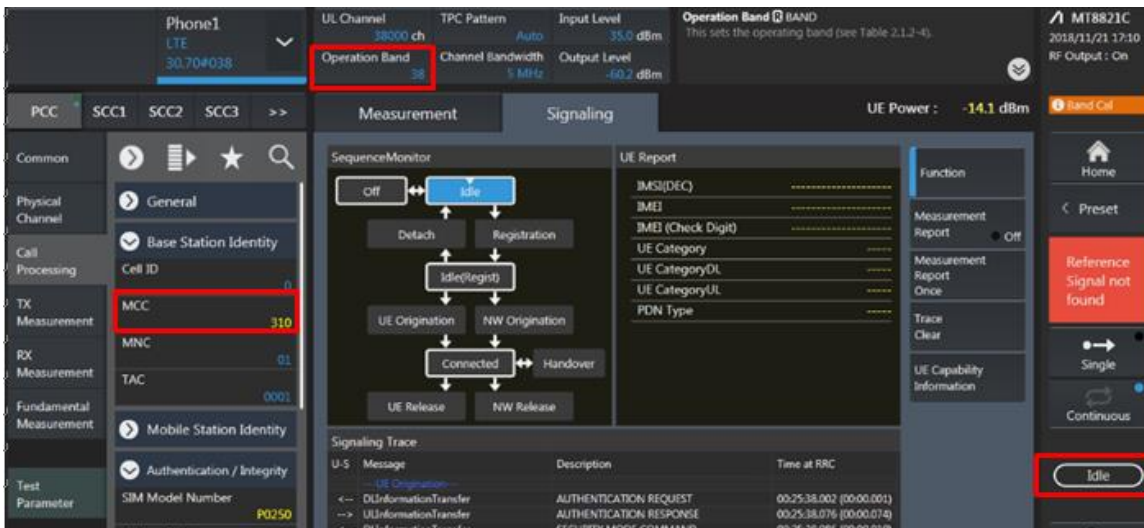
Verification and validation of Mobile Country Code

1. Base station configures US MCC, and sets B38

- Base station set US MCC & Sample registration information



2. UE cannot register B38





Verification and validation of Mobile Country Code

3. Base station configures US MCC, and sets other bands, UE can register, and call box show UE capability does not have B38

LTE

Access Stratum Release: Rel12

UE Category: 4,6,9,11

UE Category DL: 11

UE Category UL: 5

Supported Band: 1,2,3,5,7,8,20,28,32

Band Combinations

DL CA Config	UL CA Config
3A	3A
1A	1A
7A	7A
28A	28A
8A	8A
2A	2A

4. Base station configures non-US MCC

Base Station Identity

Cell ID 0

MCC 206

MNC 000

TAC 0001



Verification and validation of Mobile Country Code

5. UE registration on, and call box show UE capability does have B38

