



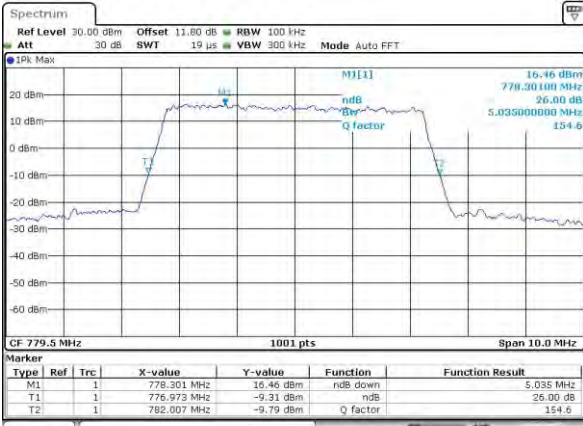
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.04	5.03	-	-	-	-	-	-
Middle CH	-	-	-	-	5.07	5.06	9.95	9.91	-	-	-	-
Highest CH	-	-	-	-	5.05	5.04	-	-	-	-	-	-



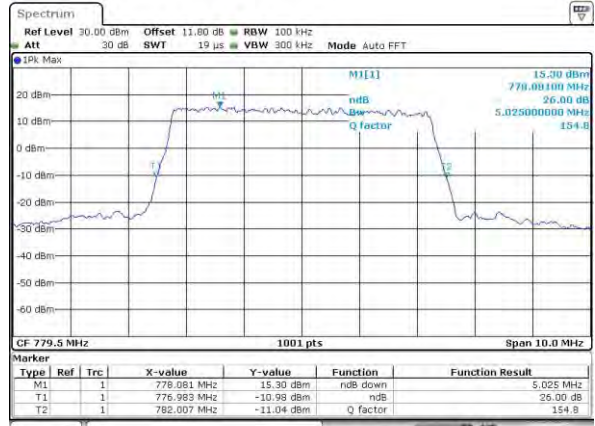
LTE Band 13

Lowest Channel / 5MHz / QPSK



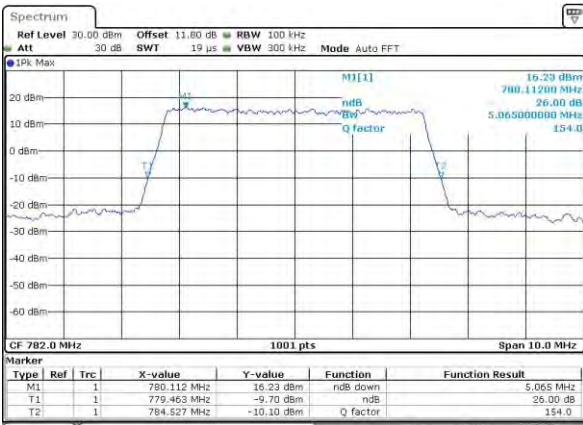
Date: 22.MAY.2015 09:13:12

Lowest Channel / 5MHz / 16QAM



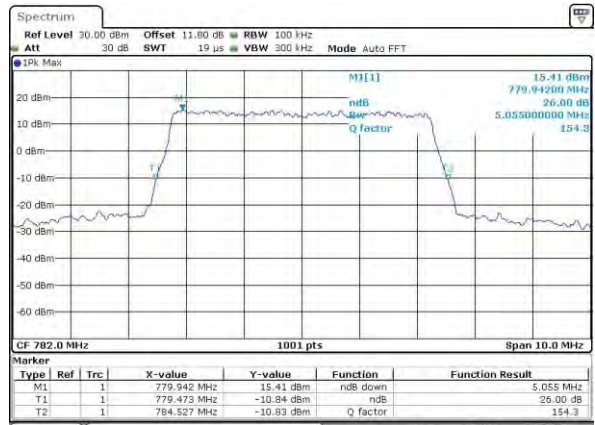
Date: 22.MAY.2015 10:29:00

Middle Channel / 5MHz / QPSK



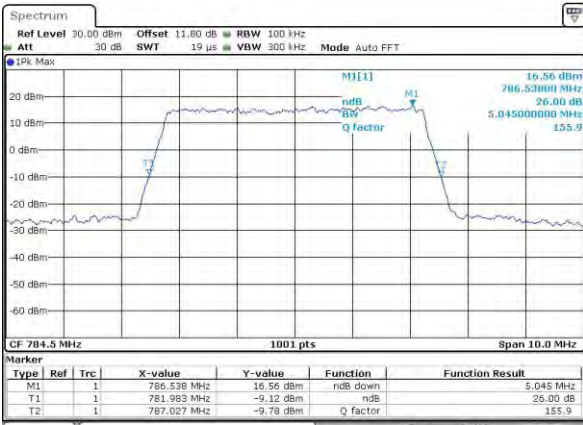
Date: 22.MAY.2015 09:18:04

Middle Channel / 5MHz / 16QAM



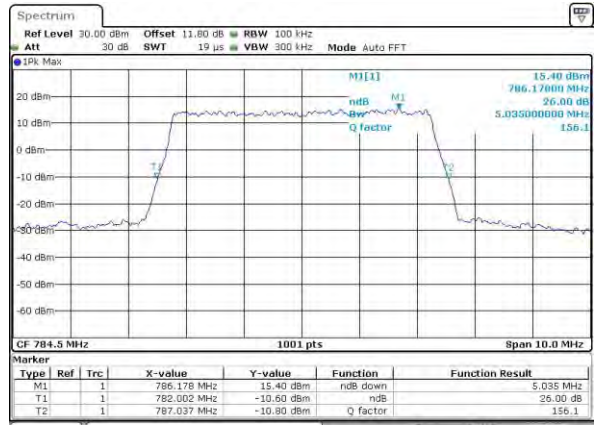
Date: 22.MAY.2015 09:18:17

Highest Channel / 5MHz / QPSK



Date: 22.MAY.2015 09:19:24

Highest Channel / 5MHz / 16QAM

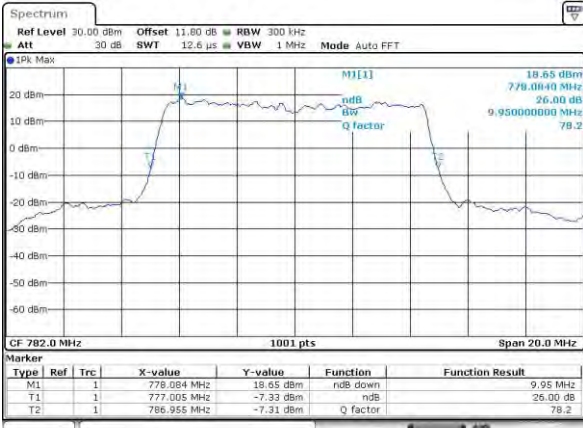


Date: 22.MAY.2015 09:19:12



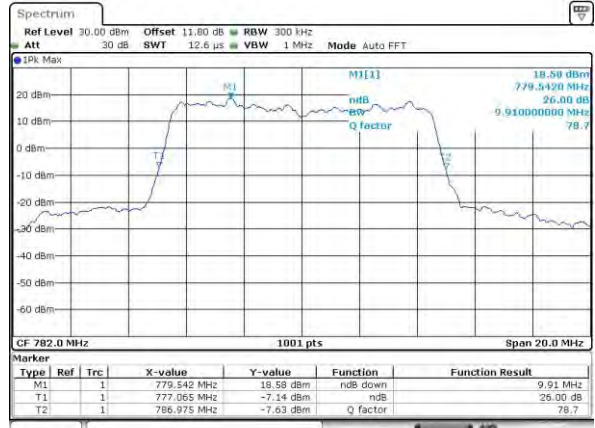
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 22.MAY.2015 09:22:30

Middle Channel / 10MHz / 16QAM



Date: 22.MAY.2015 09:22:17



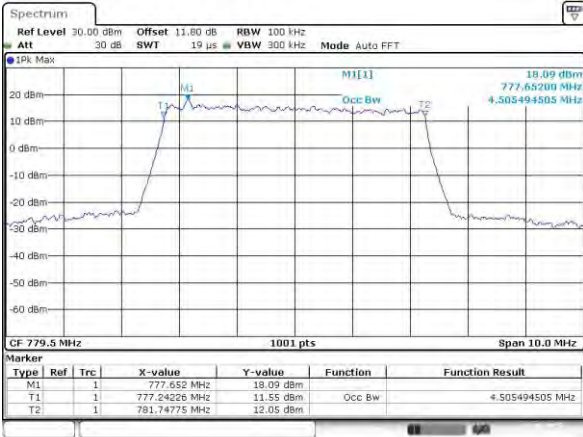
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.5	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	4.51	9.05	9.07	-	-	-	-
Highest CH	-	-	-	-	4.5	4.5	-	-	-	-	-	-



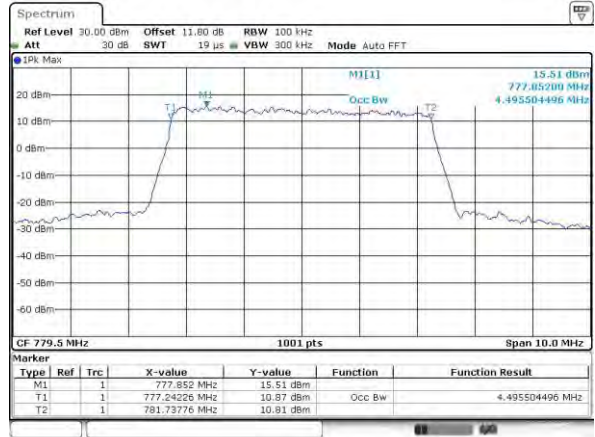
LTE Band 13

Lowest Channel / 5MHz / QPSK



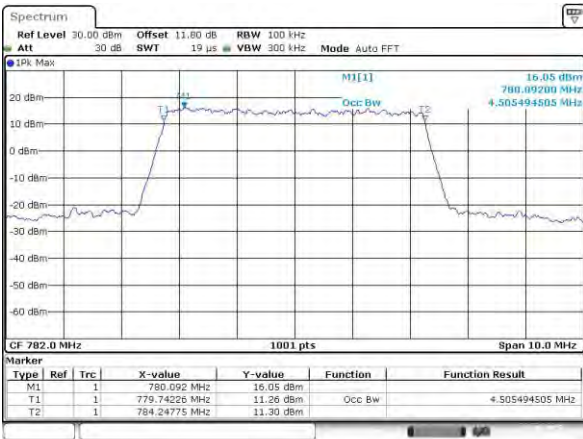
Date: 22 MAY 2015 09:12:36

Lowest Channel / 5MHz / 16QAM



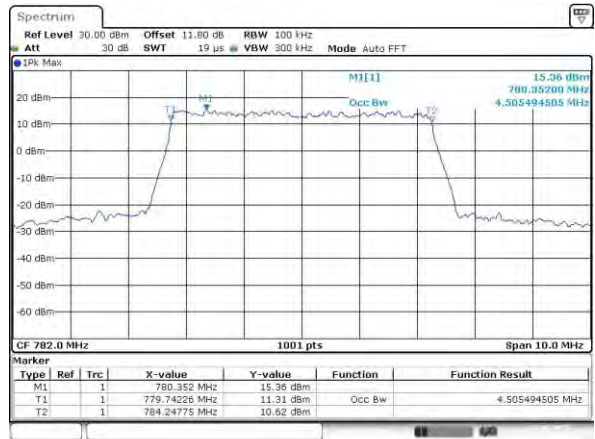
Date: 22 MAY 2015 10:28:48

Middle Channel / 5MHz / QPSK



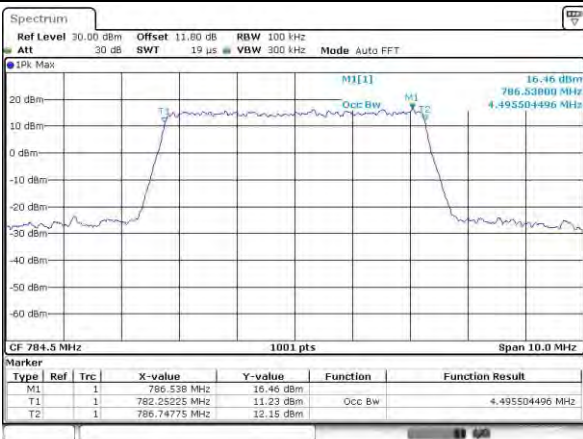
Date: 22 MAY 2015 09:18:38

Middle Channel / 5MHz / 16QAM



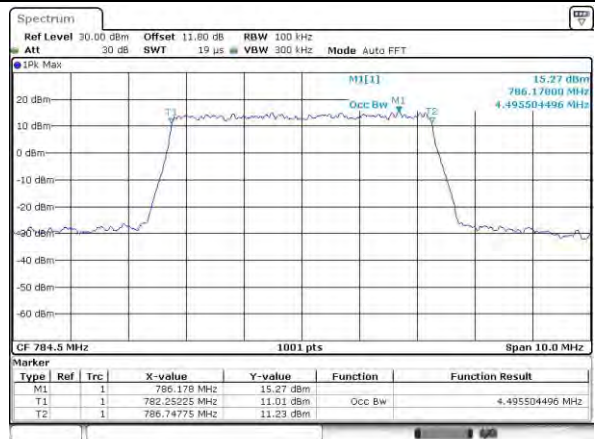
Date: 22 MAY 2015 09:18:27

Highest Channel / 5MHz / QPSK



Date: 22 MAY 2015 09:18:48

Highest Channel / 5MHz / 16QAM

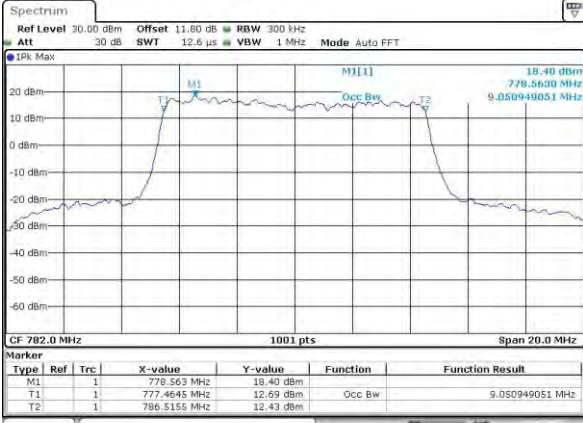


Date: 22 MAY 2015 09:18:59



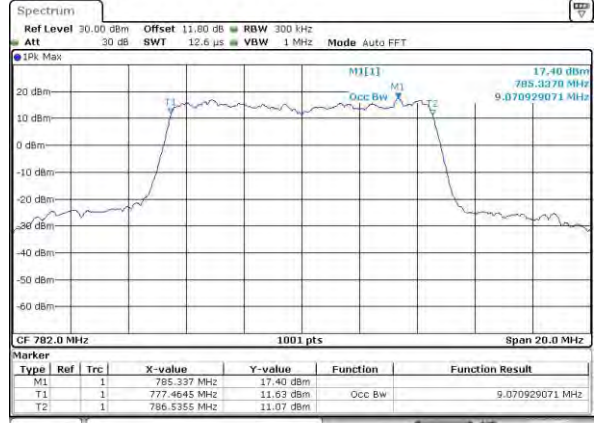
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 22.MAY.2015 09:21:54

Middle Channel / 10MHz / 16QAM



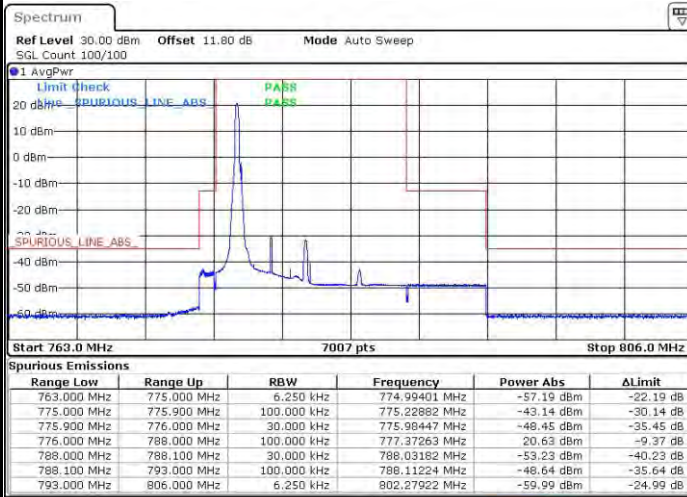
Date: 22.MAY.2015 09:22:05



Conducted Band Edge

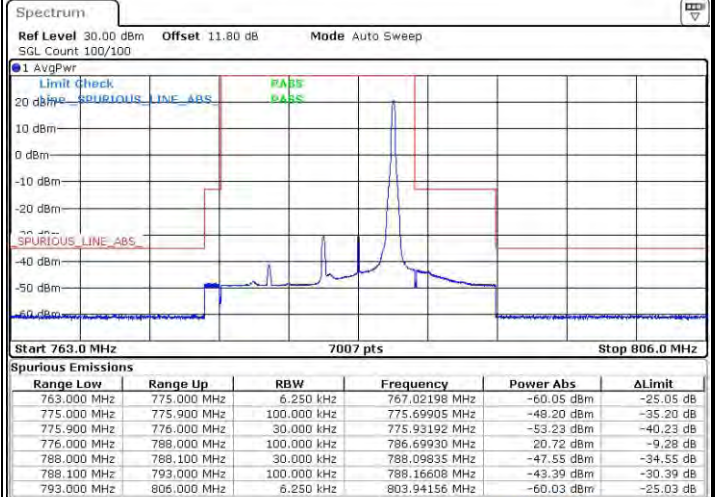
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



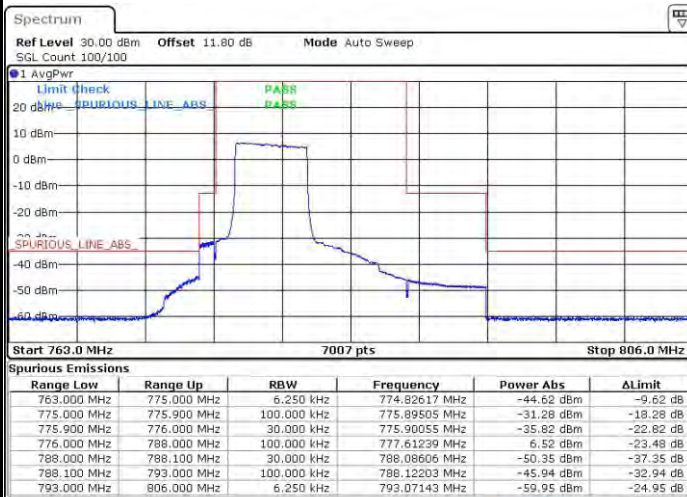
Date: 22 MAY 2015 09:32:05

Highest Band Edge / 1 RB



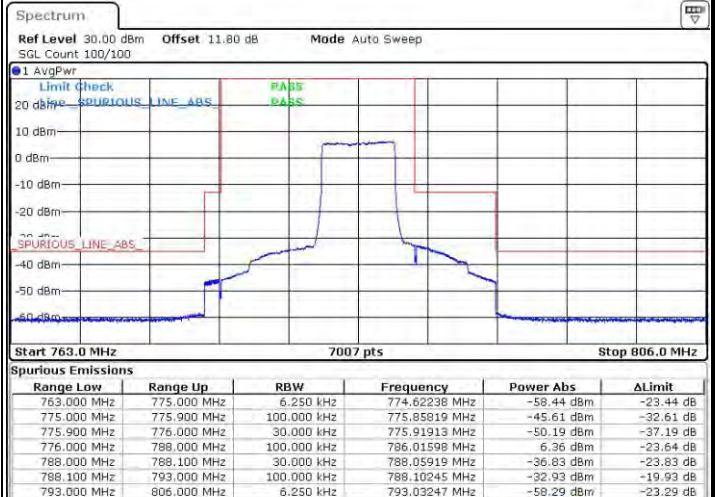
Date: 22 MAY 2015 10:00:13

Lowest Band Edge / Full RB



Date: 22 MAY 2015 09:38:00

Highest Band Edge / Full RB



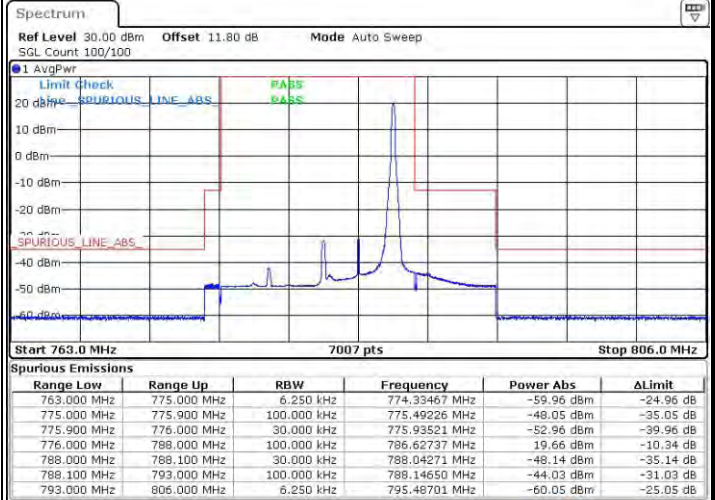
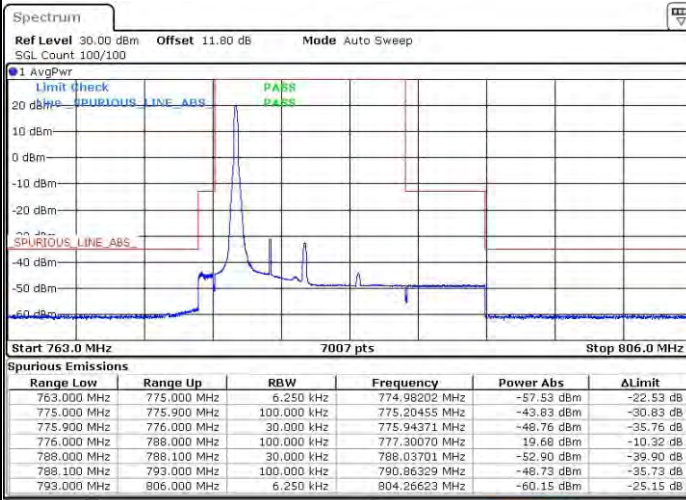
Date: 22 MAY 2015 09:39:31



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

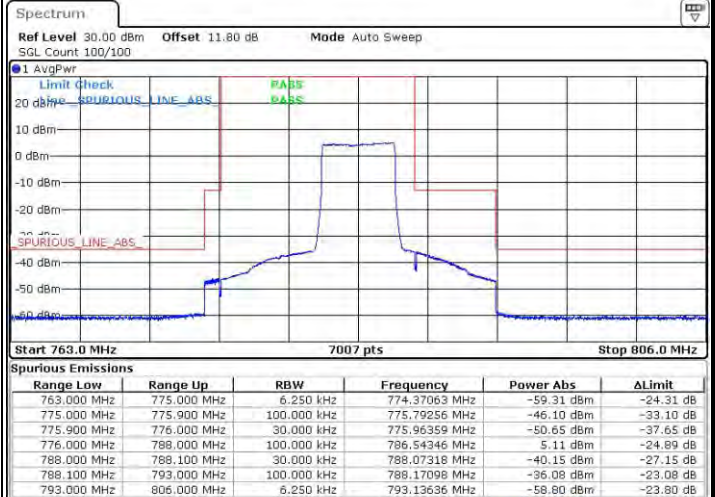


Date: 22 MAY 2015 09:33:38

Date: 22 MAY 2015 09:58:35

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 MAY 2015 09:34:52

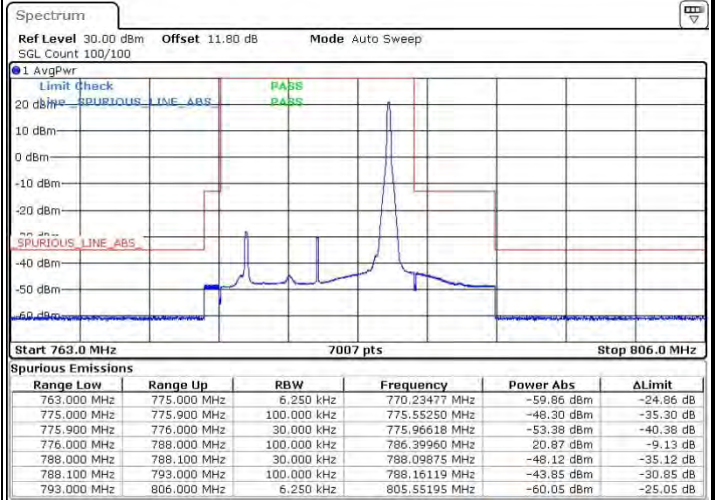
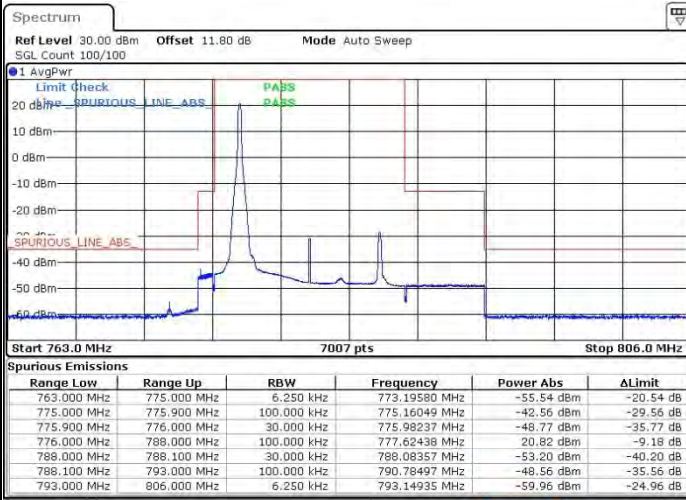
Date: 22 MAY 2015 09:42:35



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

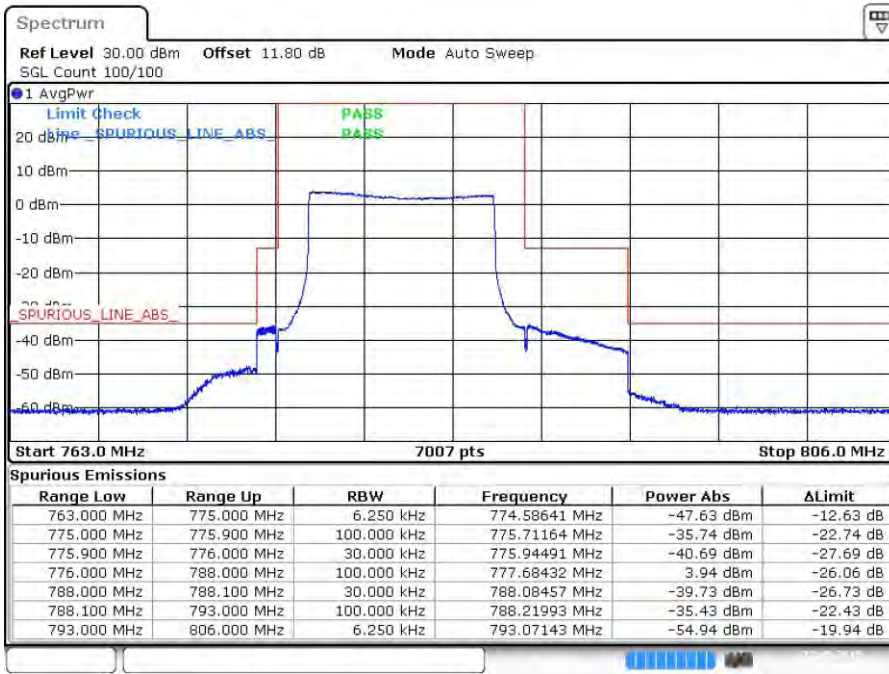
Highest Band Edge / 1 RB



Date: 22 MAY 2015 10:02:04

Date: 22 MAY 2015 10:10:05

Band Edge / Full RB

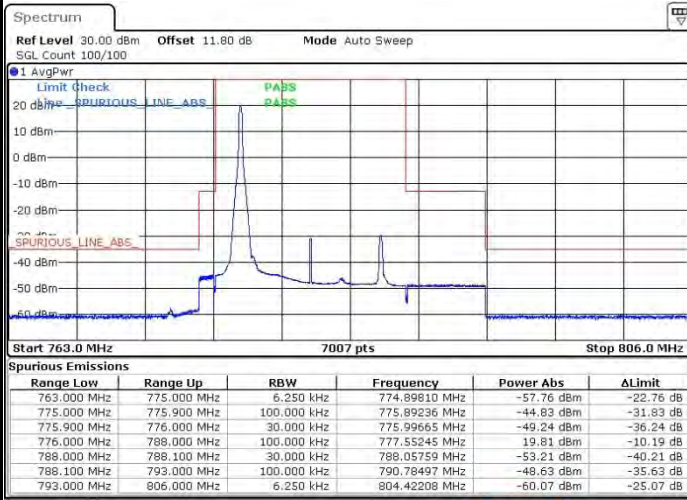


Date: 22 MAY 2015 10:12:17



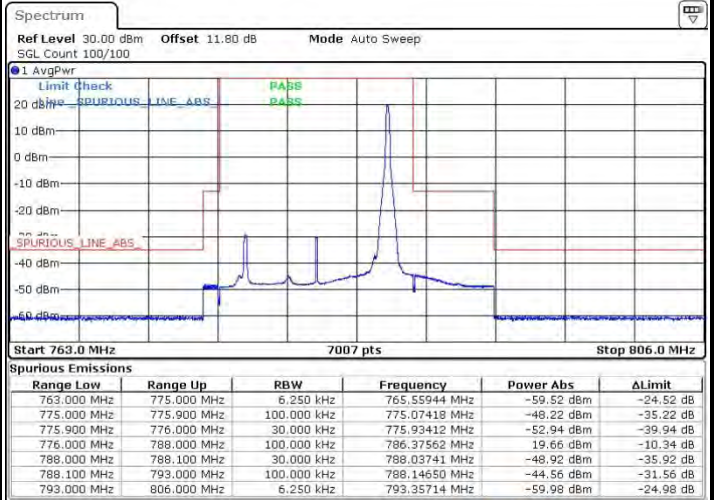
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



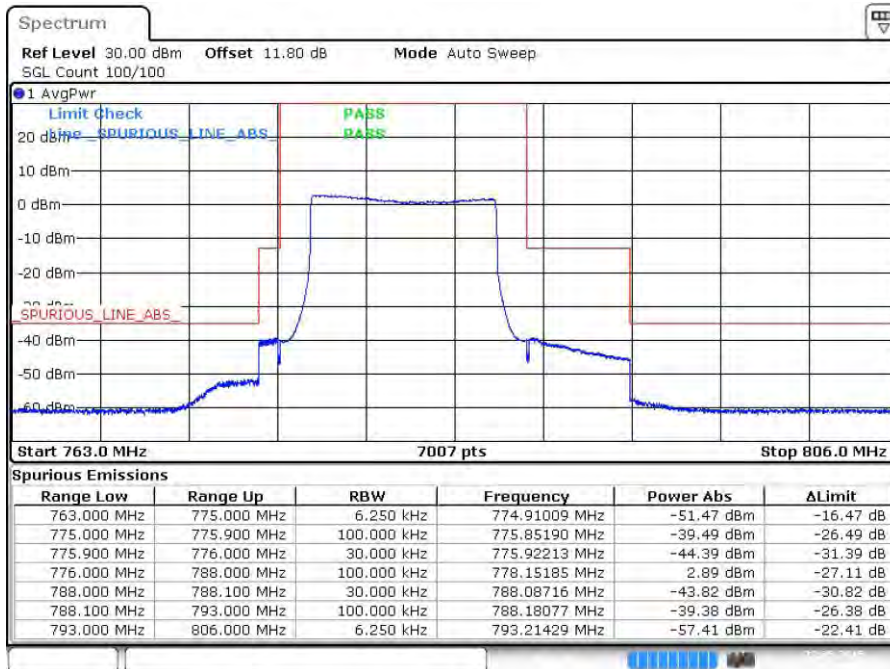
Date: 22 MAY 2015 10:07:11

Highest Band Edge / 1 RB



Date: 22 MAY 2015 10:08:42

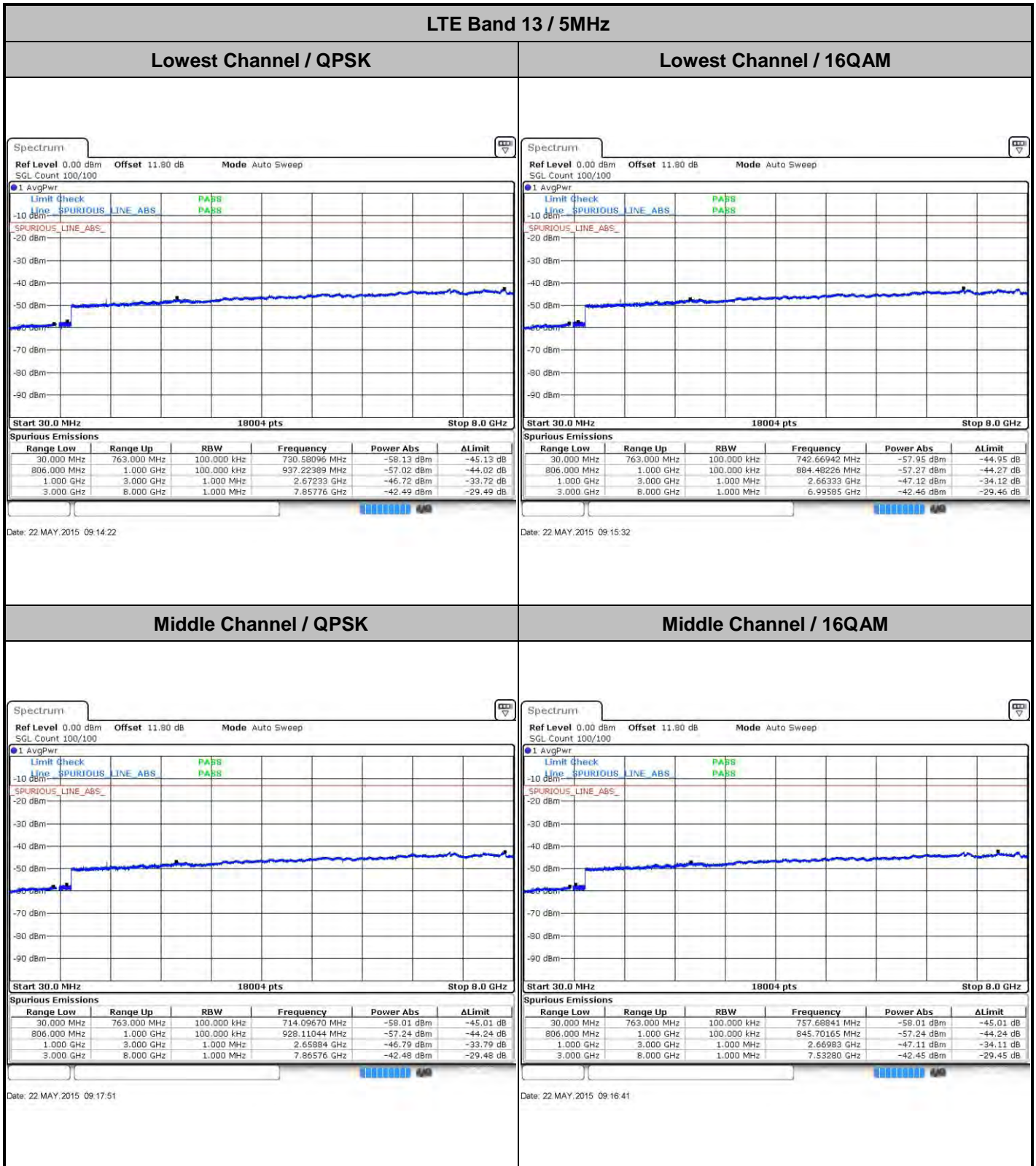
Band Edge / Full RB



Date: 22 MAY 2015 10:13:28



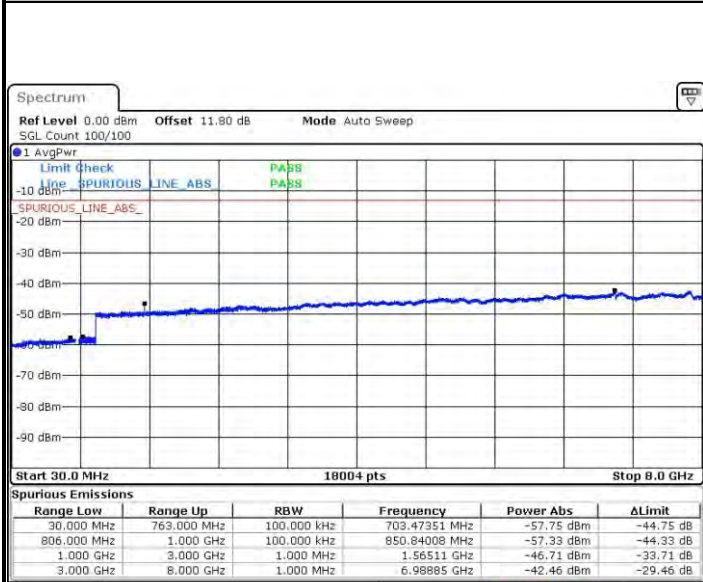
Conducted Spurious Emission





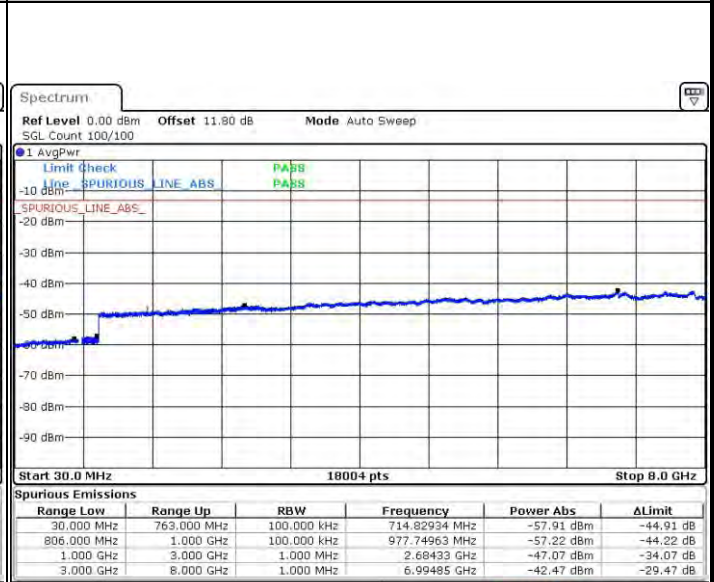
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 22 MAY 2015 09:20:34

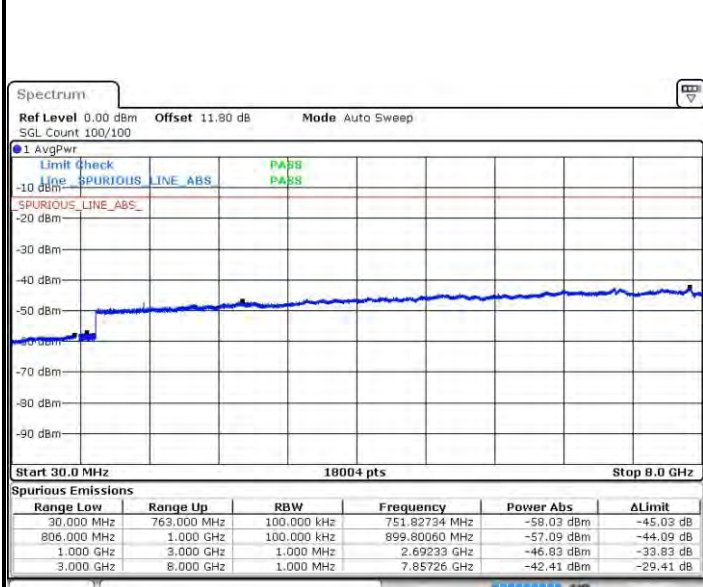
Highest Channel / 16QAM



Date: 22 MAY 2015 09:21:43

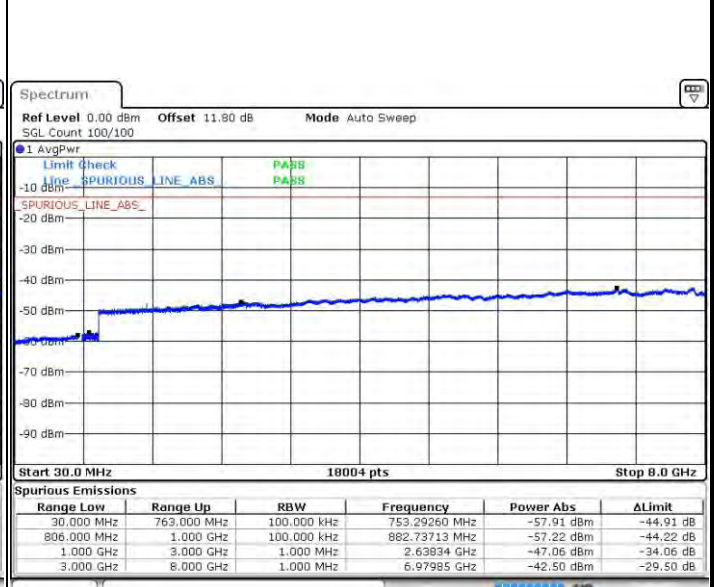
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22 MAY 2015 09:24:49

Middle Channel / 16QAM



Date: 22 MAY 2015 09:23:40



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0095	PASS
40	Normal Voltage	0.0097	
30	Normal Voltage	0.0092	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0097	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0083	
-30	Normal Voltage	0.0093	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.86	0.2432	23.29	0.2133
Middle		1	0	22.97	0.1982	22.35	0.1718
Highest		1	0	24.80	0.3020	23.29	0.2133
Lowest	16QAM	1	0	21.72	0.1486	21.13	0.1297
Middle		1	0	20.82	0.1208	20.19	0.1045
Highest		1	0	22.61	0.1824	21.10	0.1288
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.13	0.2588	23.52	0.2249
Middle		1	0	23.19	0.2084	22.38	0.1730
Highest		1	0	24.87	0.3069	23.40	0.2188
Lowest	16QAM	1	0	21.75	0.1496	21.09	0.1285
Middle		1	0	20.88	0.1225	20.19	0.1045
Highest		1	0	22.57	0.1807	21.01	0.1262
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.73	0.2360	23.32	0.2148
Middle		1	0	23.11	0.2046	22.37	0.1726
Highest		1	0	24.72	0.2965	23.26	0.2118
Lowest	16QAM	1	0	21.65	0.1462	21.00	0.1259
Middle		1	0	20.76	0.1191	20.04	0.1009
Highest		1	0	22.32	0.1706	20.94	0.1242
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.19	0.2624	23.30	0.2138
Middle		1	0	23.12	0.2051	22.57	0.1807
Highest		1	0	24.29	0.2685	22.98	0.1986
Lowest	16QAM	1	0	21.85	0.1531	20.97	0.1250
Middle		1	0	20.94	0.1242	20.19	0.1045
Highest		1	0	21.98	0.1578	20.73	0.1183
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.15	0.2600	23.15	0.2065
Middle		1	0	23.42	0.2198	22.49	0.1774
Highest		1	0	24.01	0.2518	22.84	0.1923
Lowest	16QAM	1	0	21.96	0.1570	21.04	0.1271
Middle		1	0	21.37	0.1371	20.46	0.1112
Highest		1	0	22.04	0.1600	20.79	0.1199
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.29	0.2685	23.49	0.2234
Middle		1	0	23.53	0.2254	22.68	0.1854
Highest		1	0	23.58	0.2280	22.69	0.1858
Lowest	16QAM	1	0	21.94	0.1563	21.18	0.1312
Middle		1	0	21.28	0.1343	20.47	0.1114
Highest		1	0	21.34	0.1361	20.55	0.1135
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.12	0.2582	24.23	0.2649
Middle		1	0	24.46	0.2793	24.30	0.2692
Highest		1	0	24.29	0.2685	23.98	0.2500
Lowest	16QAM	1	0	23.01	0.2000	23.06	0.2023
Middle		1	0	23.25	0.2113	23.10	0.2042
Highest		1	0	23.12	0.2051	22.83	0.1919
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.26	0.2667	24.53	0.2838
Middle		1	0	24.24	0.2655	24.23	0.2649
Highest		1	0	24.24	0.2655	24.14	0.2594
Lowest	16QAM	1	0	23.06	0.2023	23.22	0.2099
Middle		1	0	23.07	0.2028	23.05	0.2018
Highest		1	0	23.01	0.2000	22.81	0.1910
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.34	0.2716	24.66	0.2924
Middle		1	0	24.24	0.2655	24.19	0.2624
Highest		1	0	24.55	0.2851	24.11	0.2576
Lowest	16QAM	1	0	22.85	0.1928	23.17	0.2075
Middle		1	0	22.89	0.1945	22.86	0.1932
Highest		1	0	23.20	0.2089	22.65	0.1841
Limit	EIRP < 1W			Result		PASS	

LTE Band 4/ 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.57	0.2864	24.77	0.2999
Middle		1	0	24.62	0.2897	24.32	0.2704
Highest		1	0	24.99	0.3155	24.10	0.2570
Lowest	16QAM	1	0	23.13	0.2056	23.36	0.2168
Middle		1	0	23.20	0.2089	22.90	0.1950
Highest		1	0	23.67	0.2328	22.70	0.1862
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.71	0.2958	24.51	0.2825
Middle		1	0	24.79	0.3013	24.19	0.2624
Highest		1	0	24.58	0.2871	24.86	0.3062
Lowest	16QAM	1	0	23.41	0.2193	23.16	0.2070
Middle		1	0	23.53	0.2254	22.51	0.1782
Highest		1	0	23.34	0.2158	23.53	0.2254
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.79	0.3013	24.51	0.2825
Middle		1	0	24.63	0.2904	24.22	0.2642
Highest		1	0	24.62	0.2897	24.51	0.2825
Lowest	16QAM	1	0	23.44	0.2208	23.07	0.2028
Middle		1	0	23.31	0.2143	22.92	0.1959
Highest		1	0	23.36	0.2168	23.25	0.2113
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	20.41	0.1099	7.08	0.0051
Middle		1	0	20.14	0.1033	6.71	0.0047
Highest		1	0	19.80	0.0955	6.59	0.0046
Lowest	16QAM	1	0	18.76	0.0752	5.45	0.0035
Middle		1	0	18.53	0.0713	5.17	0.0033
Highest		1	0	17.81	0.0604	4.85	0.0031
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	20.49	0.1119	7.16	0.0052
Middle		1	0	20.23	0.1054	6.82	0.0048
Highest		1	0	19.91	0.0979	6.63	0.0046
Lowest	16QAM	1	0	18.69	0.0740	5.24	0.0033
Middle		1	0	18.43	0.0697	5.02	0.0032
Highest		1	0	18.29	0.0675	5.09	0.0032
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	20.36	0.1086	7.00	0.0050
Middle		1	0	20.06	0.1014	6.75	0.0047
Highest		1	0	20.07	0.1016	6.87	0.0049
Lowest	16QAM	1	0	18.56	0.0718	5.19	0.0033
Middle		1	0	18.28	0.0673	4.83	0.0030
Highest		1	0	18.23	0.0665	5.04	0.0032
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	20.52	0.1127	7.08	0.0051
Middle		1	0	20.33	0.1079	6.84	0.0048
Highest		1	0	20.18	0.1042	6.88	0.0049
Lowest	16QAM	1	0	18.55	0.0716	5.15	0.0033
Middle		1	0	18.42	0.0695	4.88	0.0031
Highest		1	0	18.21	0.0662	4.90	0.0031
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.50	0.0891	14.04	0.0254
Middle		1	0	19.68	0.0929	14.65	0.0292
Highest		1	0	20.56	0.1138	15.55	0.0359
Lowest	16QAM	1	0	18.58	0.0721	13.12	0.0205
Middle		1	0	18.84	0.0766	13.79	0.0239
Highest		1	0	19.68	0.0929	14.69	0.0294
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.64	0.0920	13.99	0.0251
Middle		1	0	19.75	0.0944	14.79	0.0301
Highest		1	0	21.01	0.1262	16.00	0.0398
Lowest	16QAM	1	0	18.83	0.0764	13.15	0.0207
Middle		1	0	18.98	0.0791	14.02	0.0252
Highest		1	0	20.23	0.1054	15.59	0.0362
Limit	EIRP < 2W			Result		PASS	