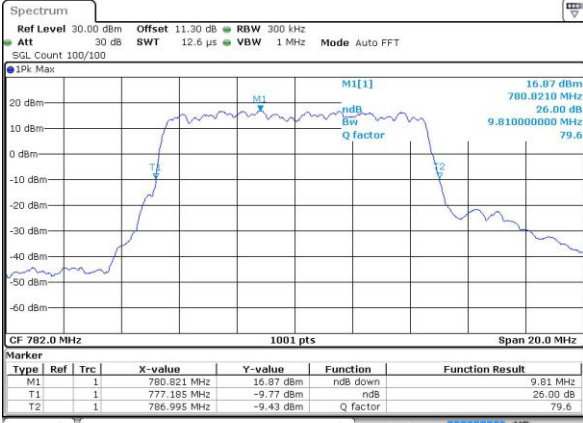




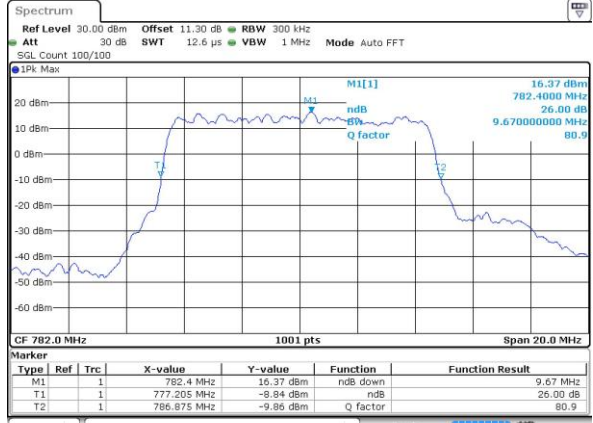
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 JUL 2016 07:45:18

Middle Channel / 10MHz / 16QAM



Date: 20 JUL 2016 07:45:08



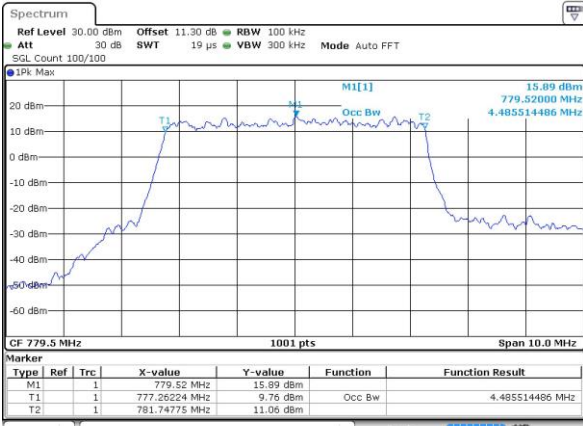
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.47	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	4.5	9.01	8.93	-	-	-	-
Highest CH	-	-	-	-	4.5	4.5	-	-	-	-	-	-



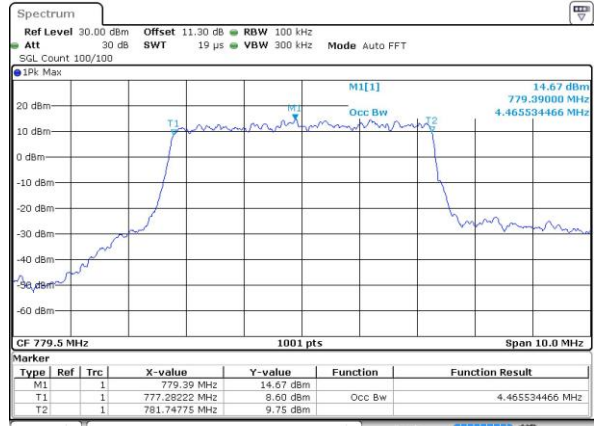
LTE Band 13

Lowest Channel / 5MHz / QPSK



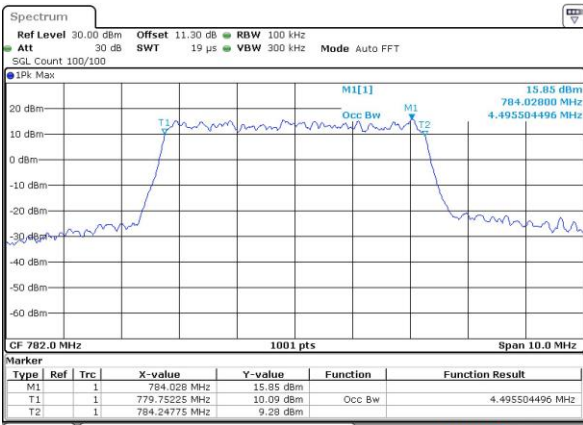
Date: 20 JUL 2016 07:22:38

Lowest Channel / 5MHz / 16QAM



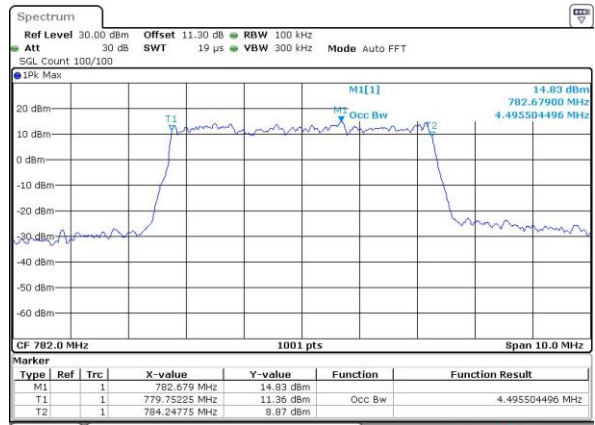
Date: 20 JUL 2016 07:22:48

Middle Channel / 5MHz / QPSK



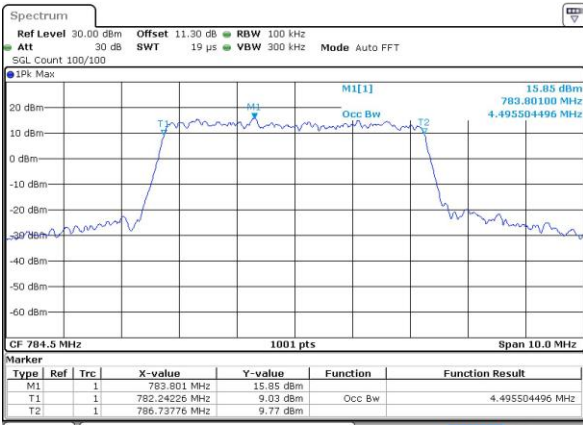
Date: 20 JUL 2016 07:33:55

Middle Channel / 5MHz / 16QAM



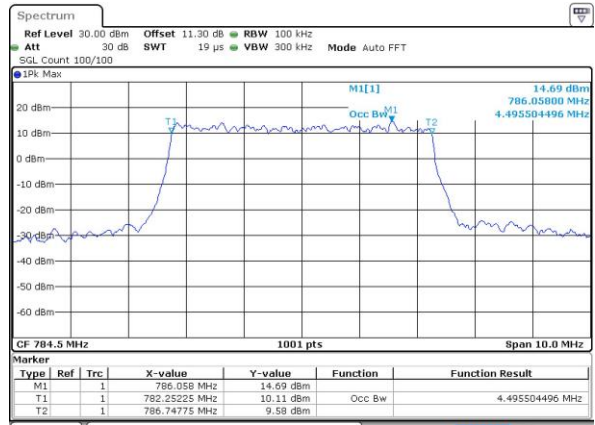
Date: 20 JUL 2016 07:33:44

Highest Channel / 5MHz / QPSK



Date: 20 JUL 2016 07:34:05

Highest Channel / 5MHz / 16QAM

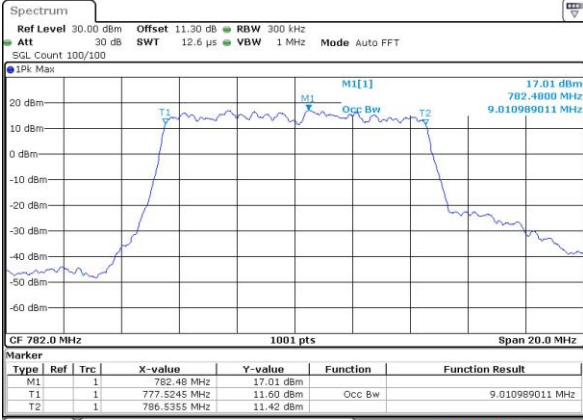


Date: 20 JUL 2016 07:34:15



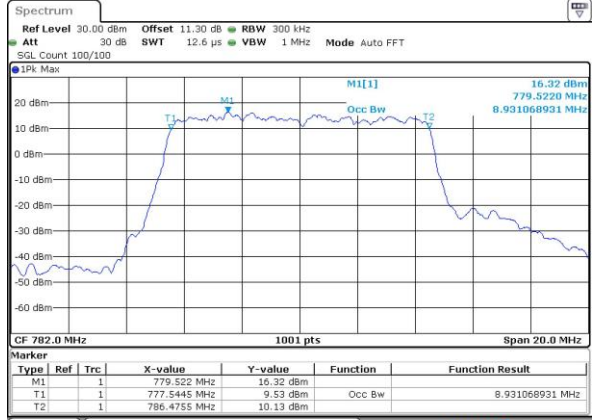
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 JUL 2016 07:43:04

Middle Channel / 10MHz / 16QAM



Date: 20 JUL 2016 07:43:14



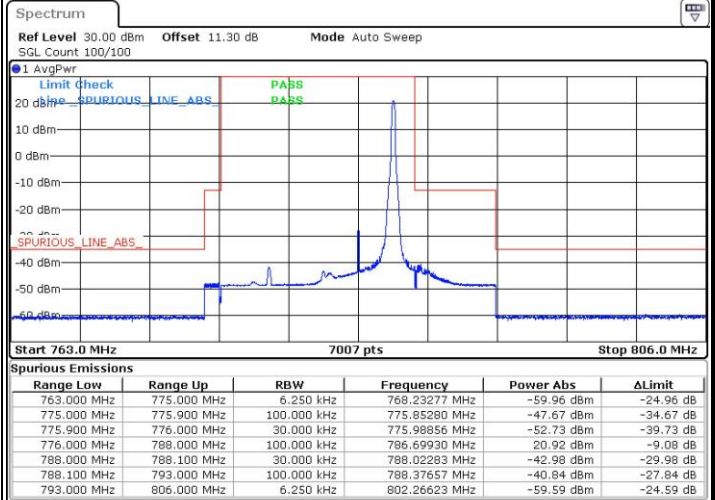
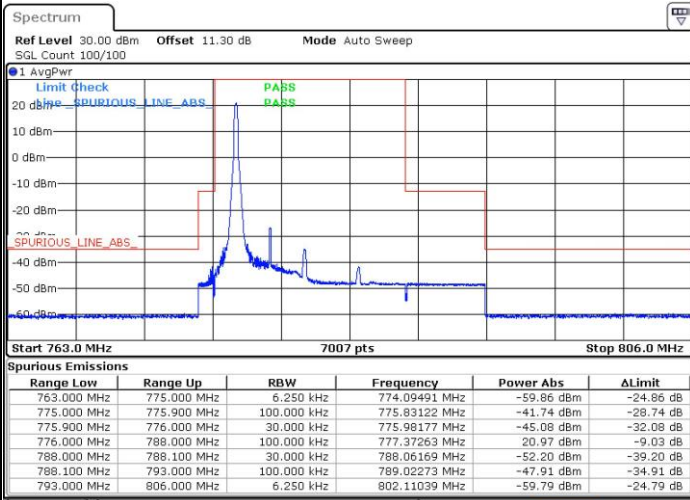
Conducted Band Edge



LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

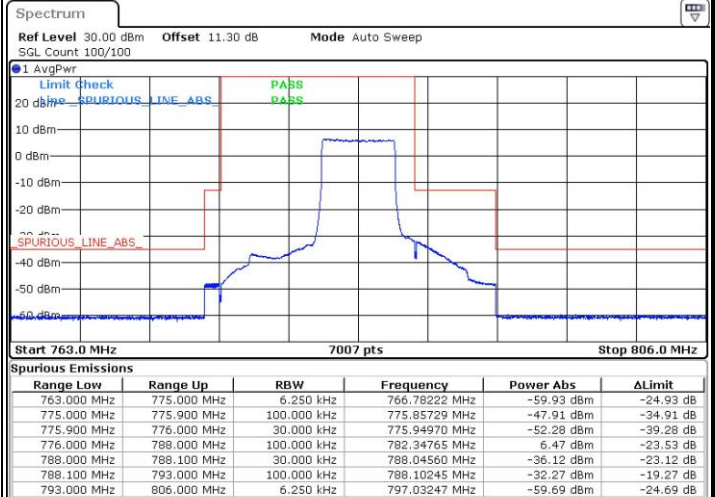
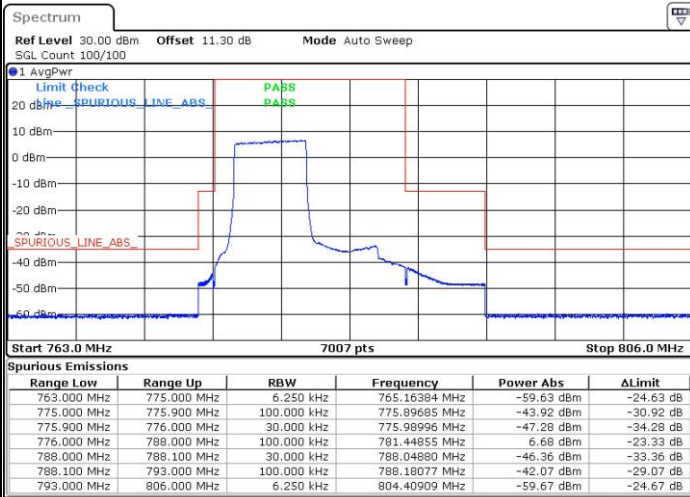


Date: 20 JUL 2018 07:29:39

Date: 20 JUL 2018 07:41:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



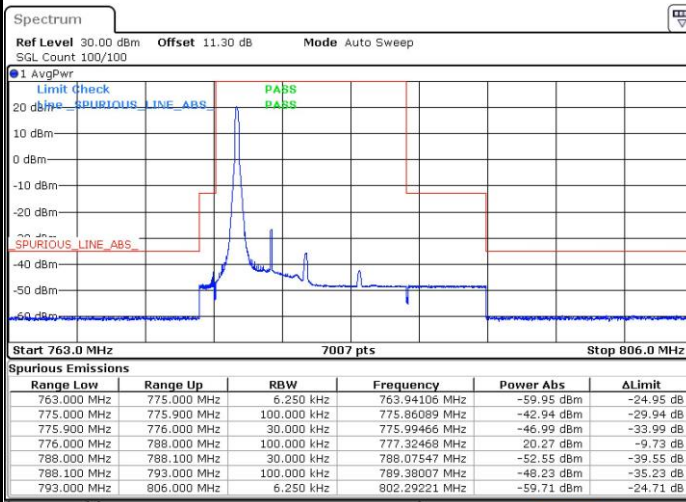
Date: 20 JUL 2018 07:24:46

Date: 20 JUL 2018 07:36:13



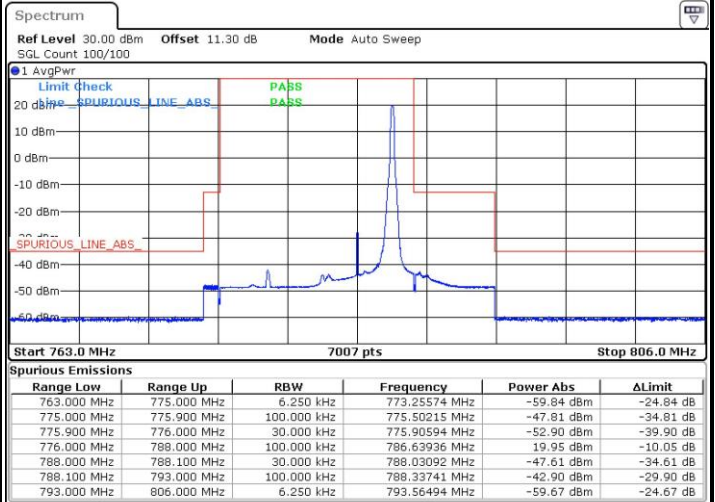
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



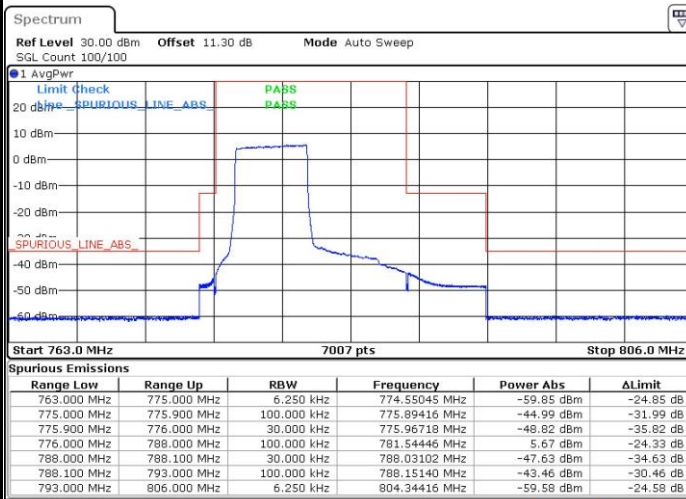
Date: 20 JUL 2018 07:28:01

Highest Band Edge / 1 RB



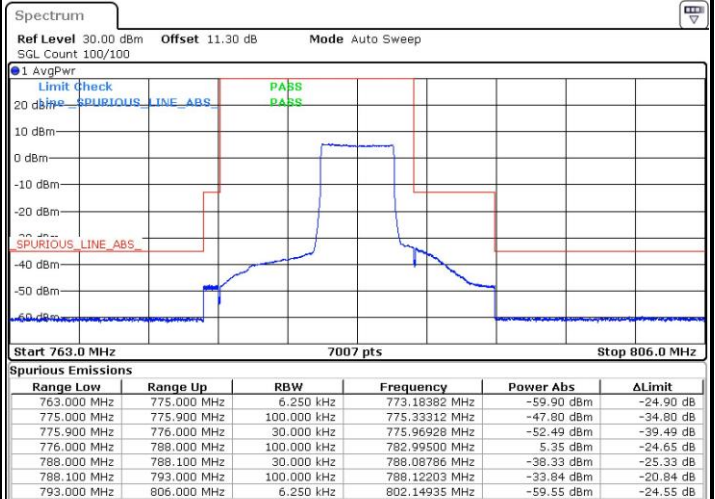
Date: 20 JUL 2018 07:39:29

Lowest Band Edge / Full RB



Date: 20 JUL 2018 07:26:24

Highest Band Edge / Full RB



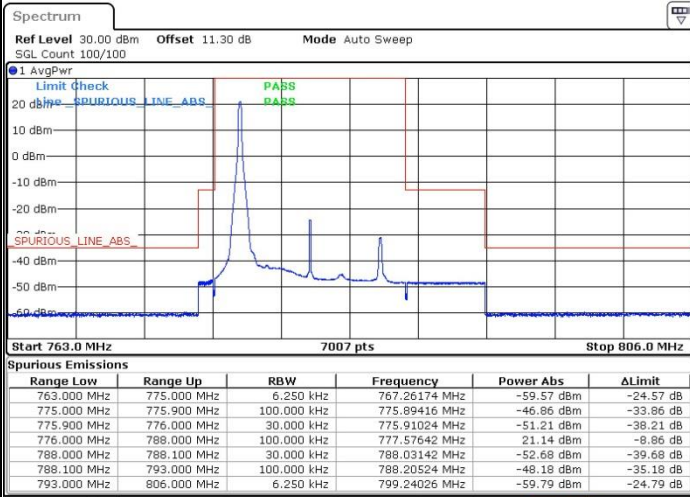
Date: 20 JUL 2018 07:37:51



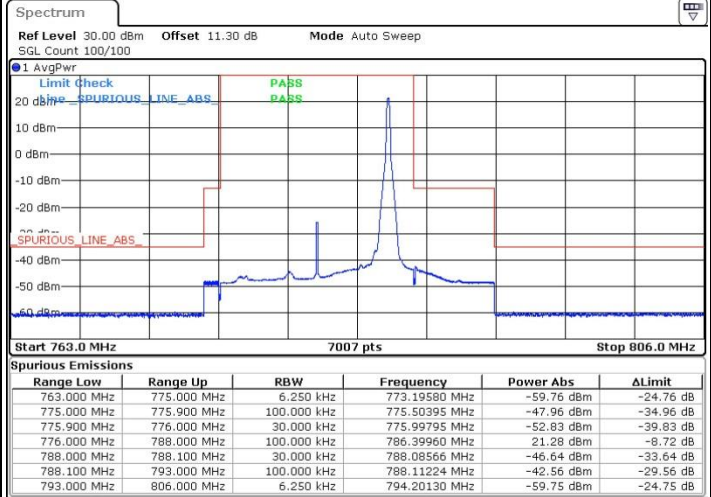
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

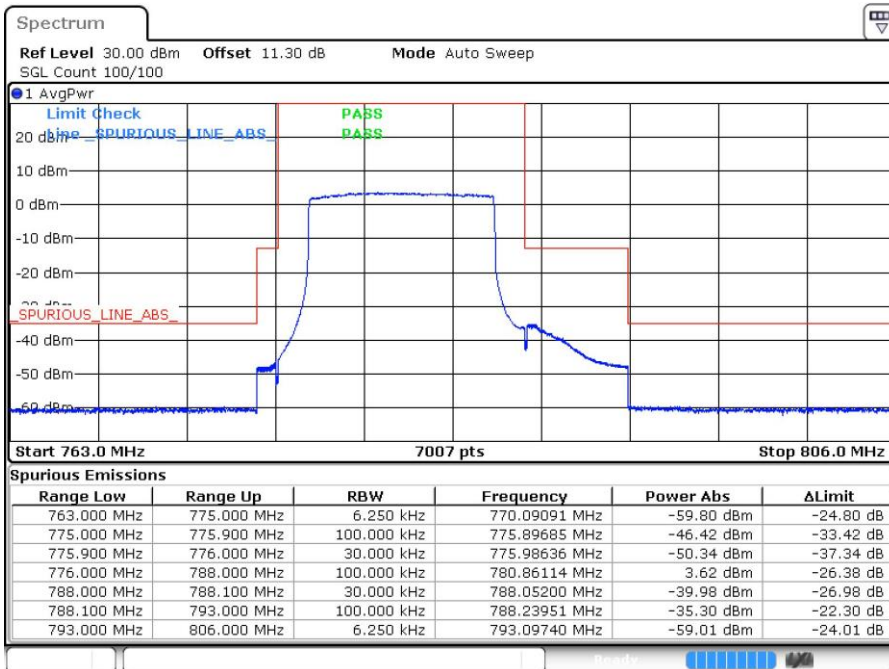


Date: 20 JUL 2018 07:51:49



Date: 20 JUL 2018 07:53:27

Band Edge / Full RB



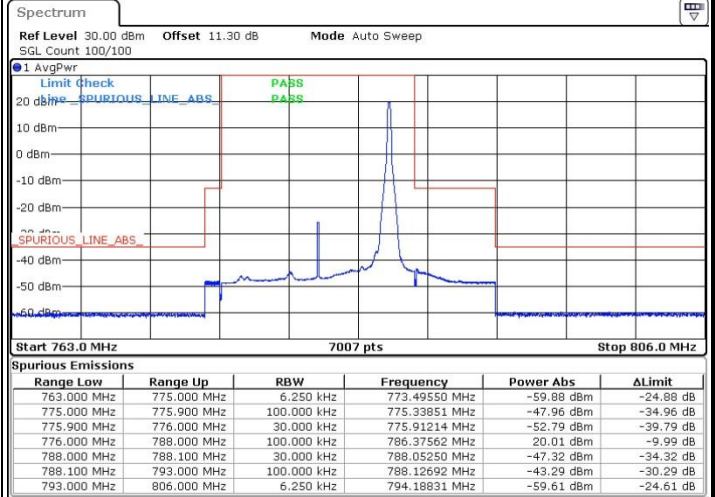
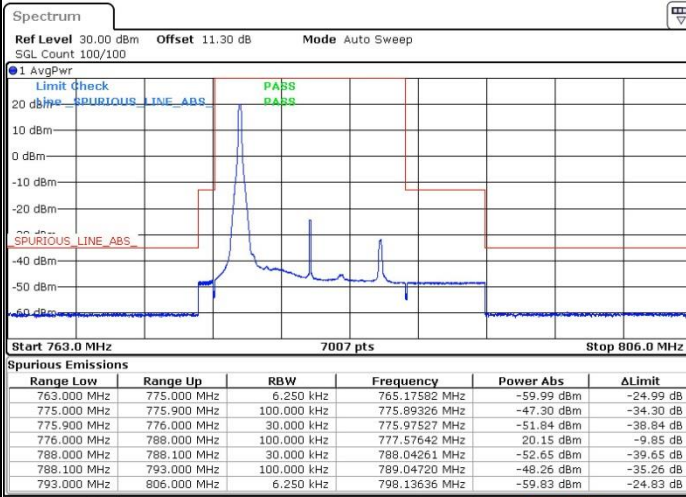
Date: 20 JUL 2018 07:46:56



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

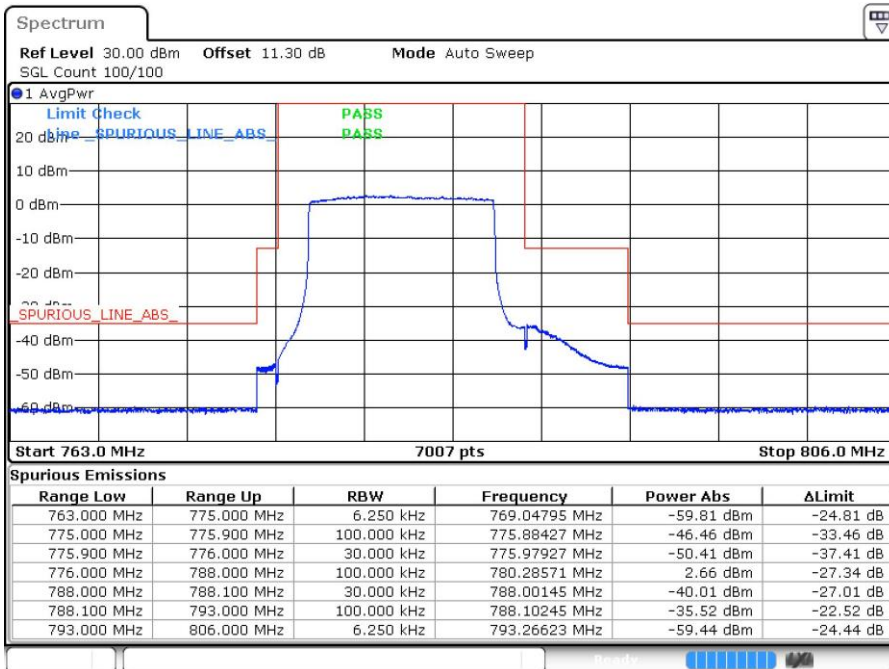
Highest Band Edge / 1 RB



Date: 20 JUL 2018 07:50:12

Date: 20 JUL 2018 07:55:05

Band Edge / Full RB



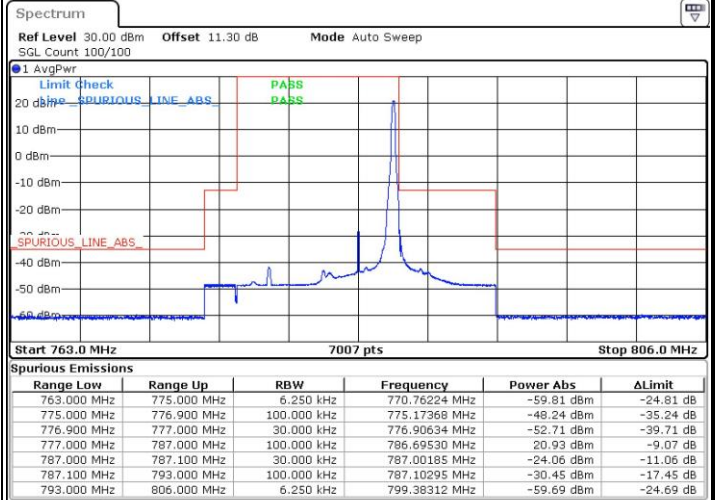
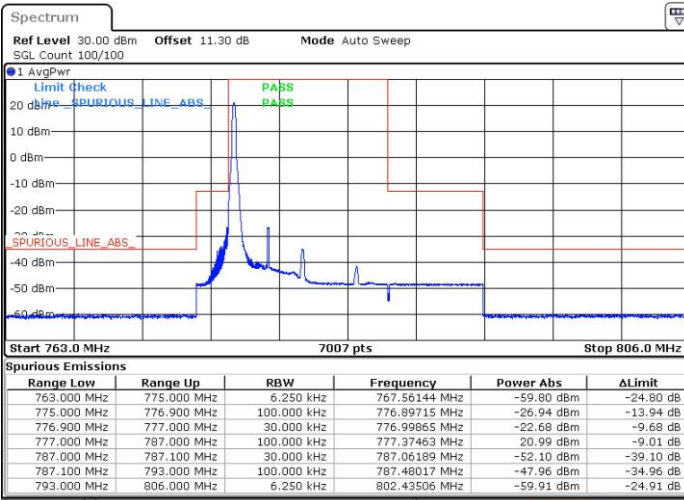
Date: 20 JUL 2018 07:48:34



IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

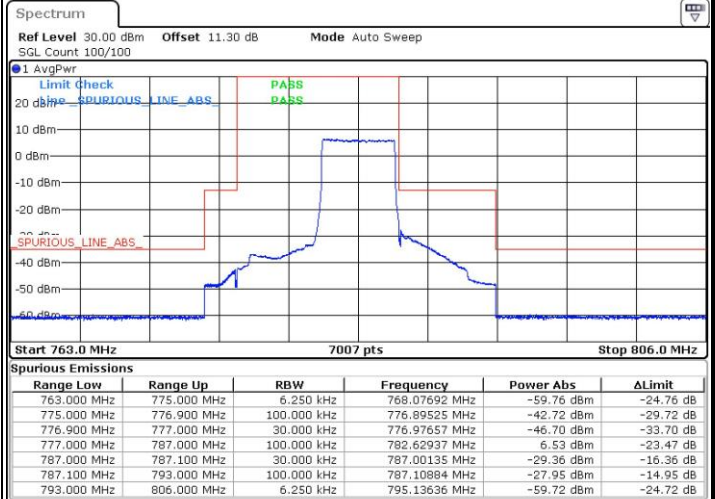
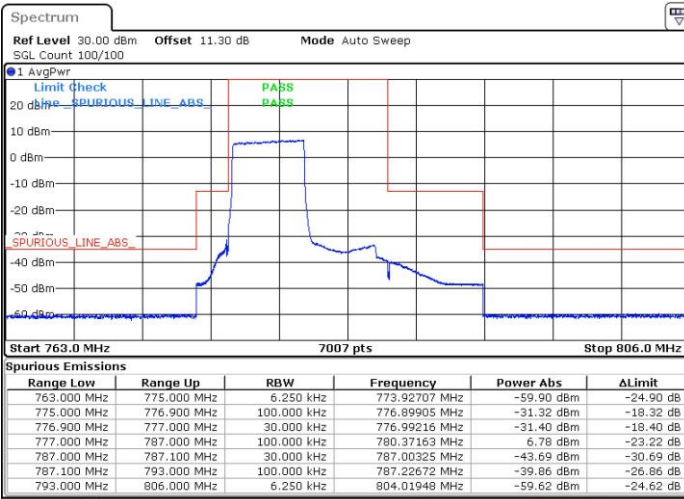


Date: 20 JUL 2018 08:08:29

Date: 20 JUL 2018 08:15:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20 JUL 2018 08:03:36

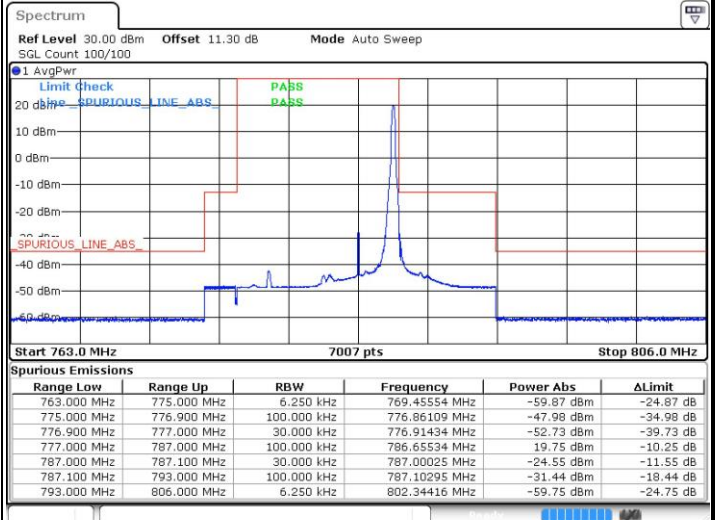
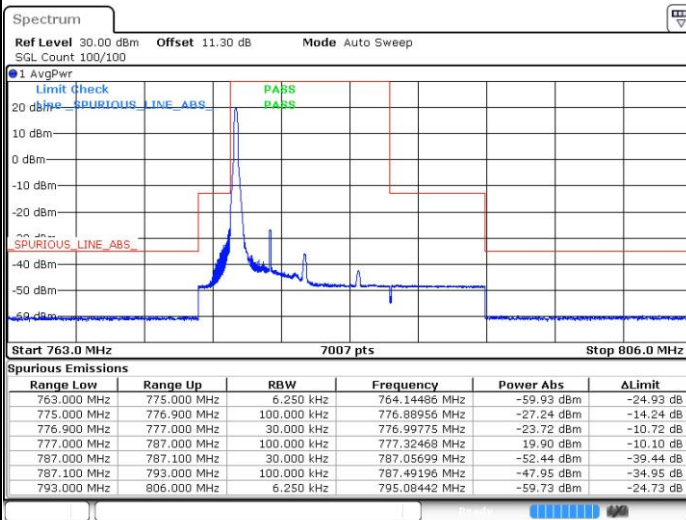
Date: 20 JUL 2018 08:10:06



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

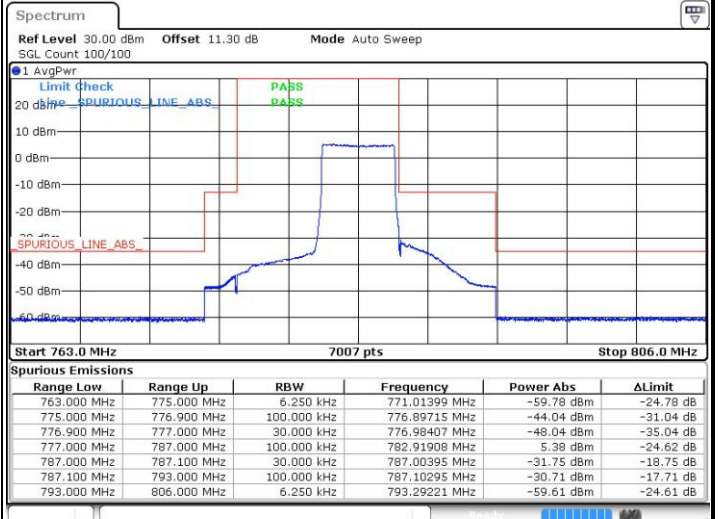
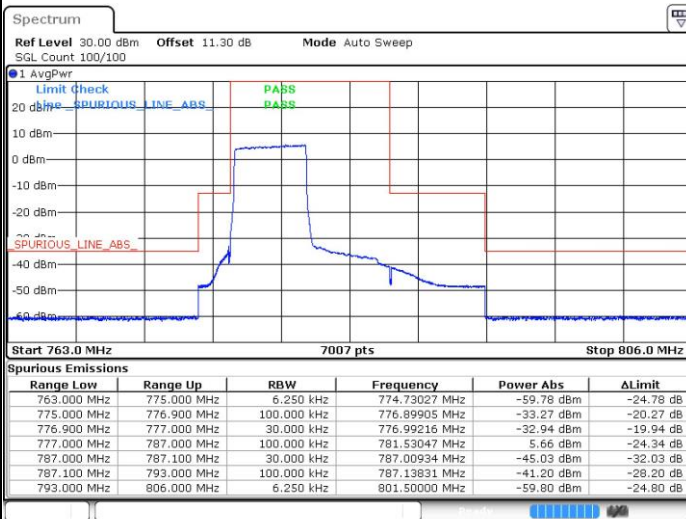


Date: 20 JUL 2018 08:06:51

Date: 20 JUL 2018 08:13:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



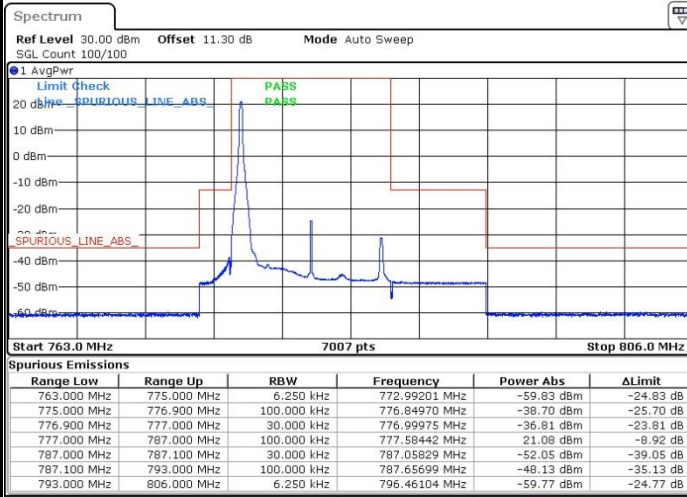
Date: 20 JUL 2018 08:05:13

Date: 20 JUL 2018 08:11:44



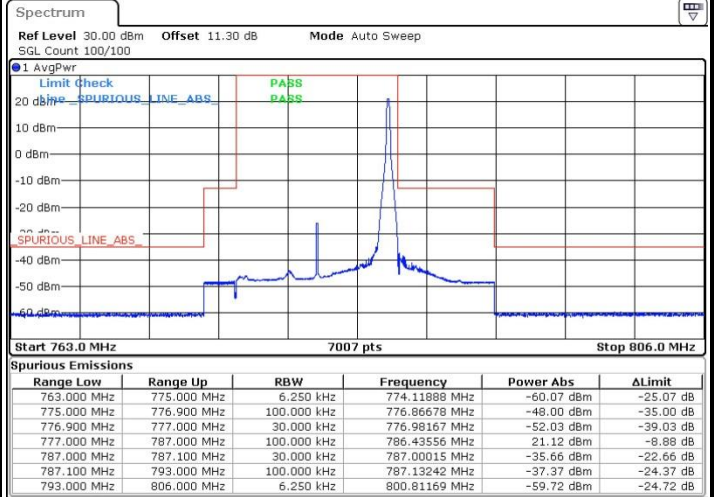
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



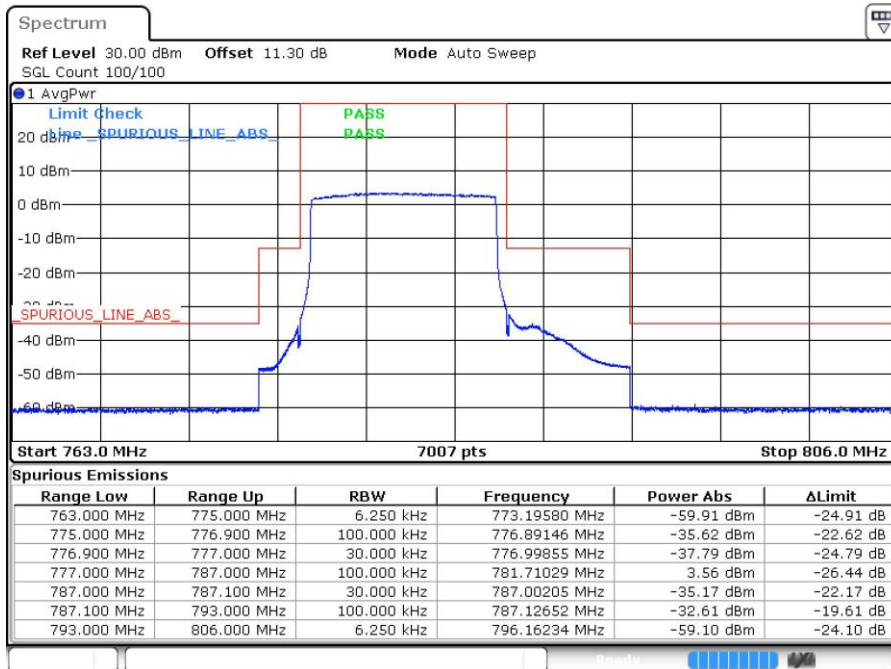
Date: 20 JUL 2018 08:21:31

Highest Band Edge / 1 RB



Date: 20 JUL 2018 08:23:08

Band Edge / Full RB



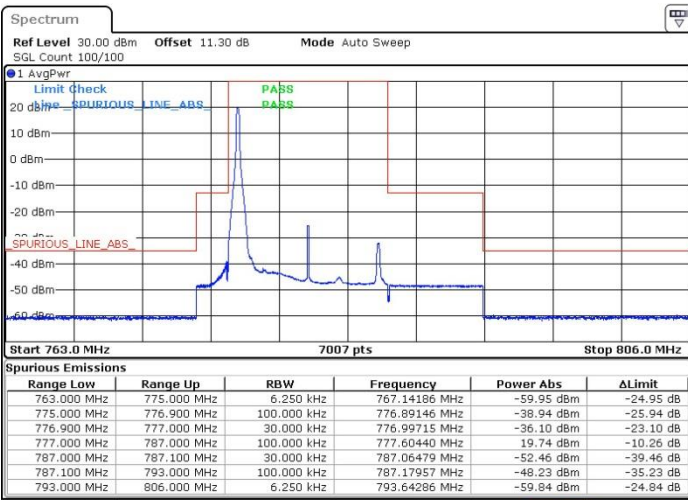
Date: 20 JUL 2018 08:16:37



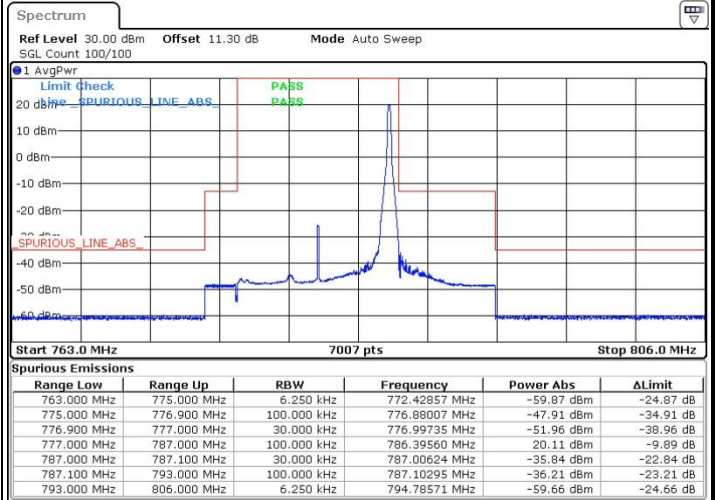
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

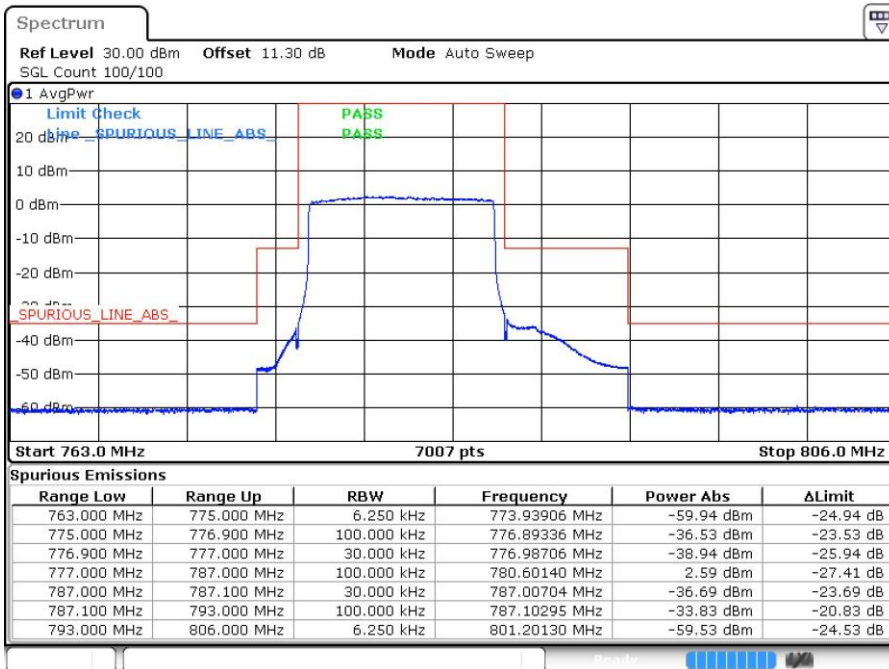


Date: 20 JUL 2018 08:19:53



Date: 20 JUL 2018 08:24:46

Band Edge / Full RB



Date: 20 JUL 2018 08:18:15



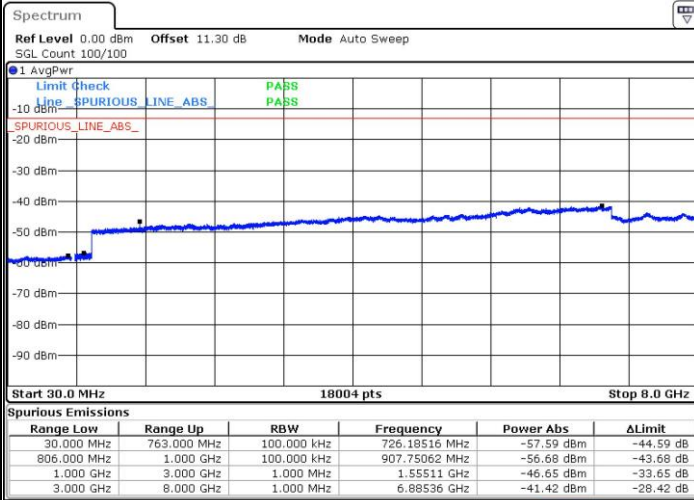
Conducted Spurious Emission



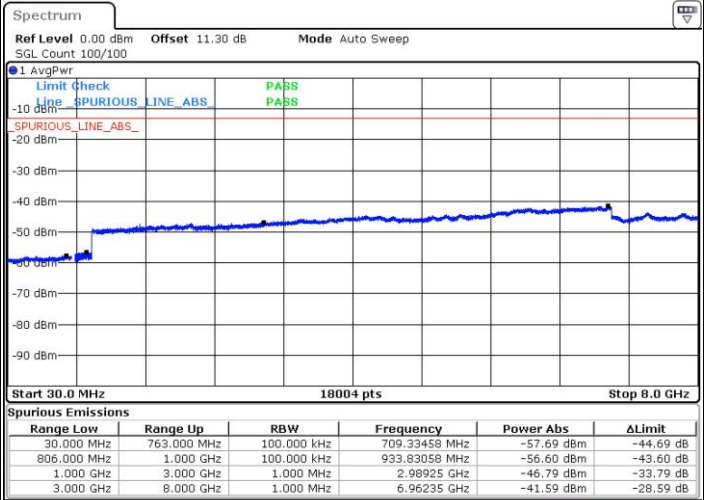
LTE Band 13 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



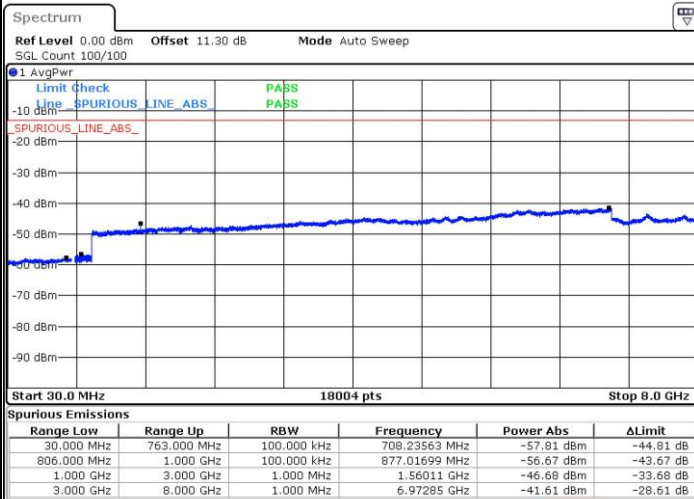
Date: 20 JUL 2018 07:30:33



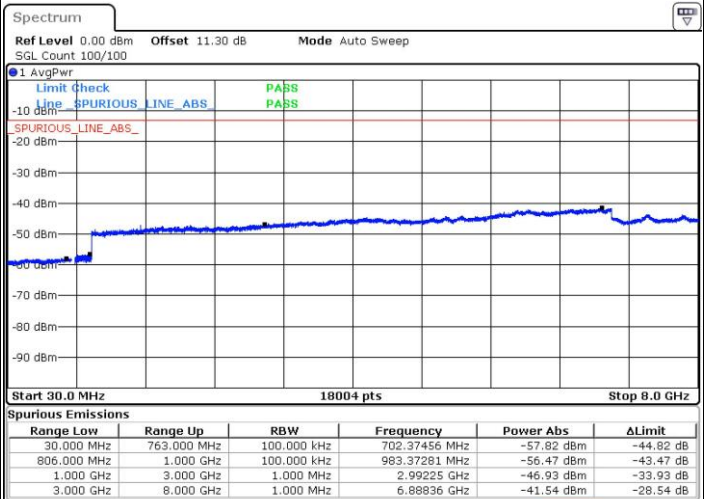
Date: 20 JUL 2018 07:31:26

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 20 JUL 2018 07:33:14

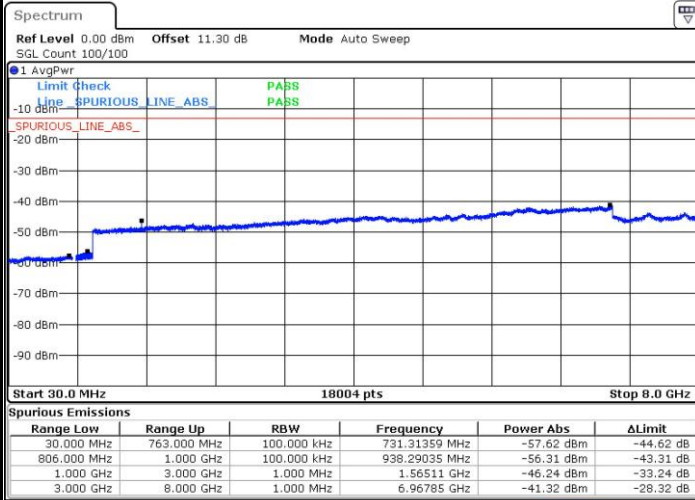


Date: 20 JUL 2018 07:32:20



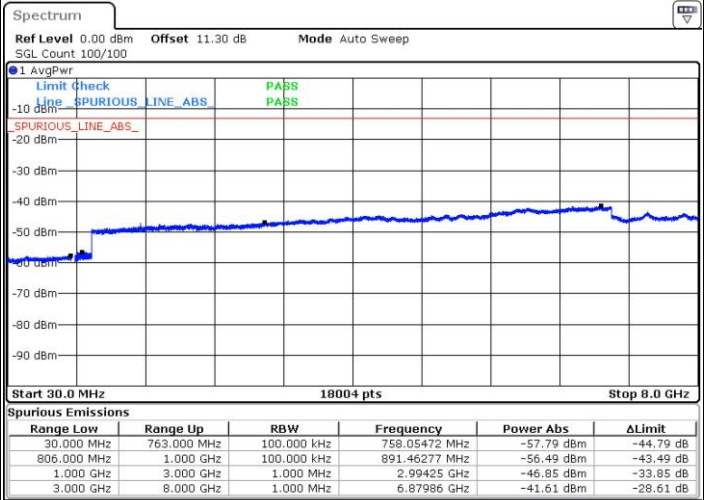
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 20 JUL 2018 07:42:00

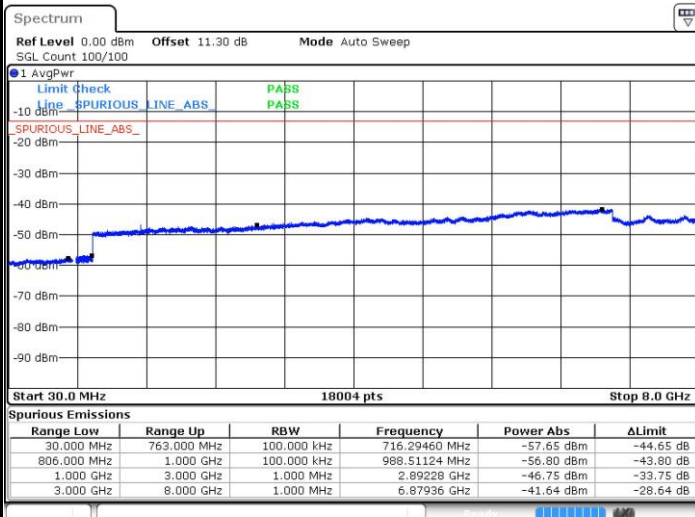
Highest Channel / 16QAM



Date: 20 JUL 2018 07:42:53

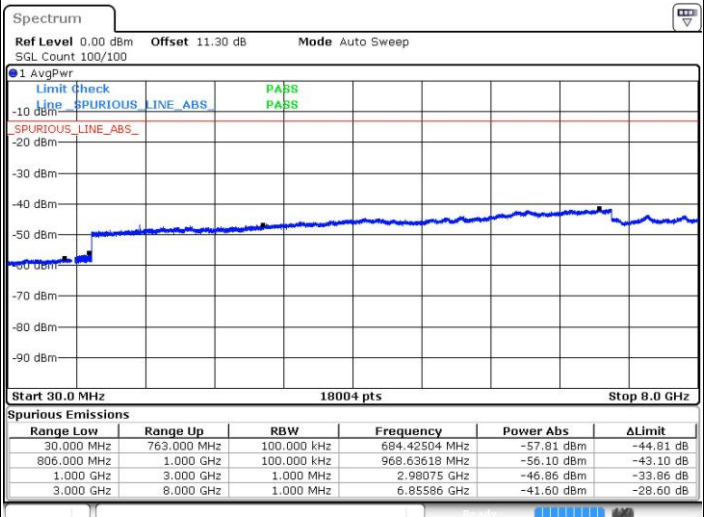
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 20 JUL 2018 07:56:52

Middle Channel / 16QAM



Date: 20 JUL 2018 07:55:58



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	0.0073	PASS
40	Normal Voltage	0.0138	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0176	
-10	Normal Voltage	0.0088	
-20	Normal Voltage	0.0145	
-30	Normal Voltage	0.0110	
20	Maximum Voltage	0.0159	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0123	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	5.7	PASS
40	Normal Voltage	10.8	
30	Normal Voltage	3.3	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	8	
0	Normal Voltage	0	
-10	Normal Voltage	6.9	
-20	Normal Voltage	11.3	
-30	Normal Voltage	8.6	
20	Maximum Voltage	12.4	
20	Normal Voltage	0	
20	Battery End Point	9.6	

$|\text{MAX}(\Delta f)| = 12.4\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	777.144988	$\geq 777 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	786.859012	$\leq 787 \text{ MHz}$	



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

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.40	0.2188	24.90	0.3090
Middle		3	1	23.24	0.2109	24.74	0.2979
Highest		3	1	23.61	0.2296	25.11	0.3243
Lowest	16QAM	3	0	22.10	0.1622	23.60	0.2291
Middle		3	0	21.96	0.1570	23.46	0.2218
Highest		3	0	22.53	0.1791	24.03	0.2529
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.28	0.2128	24.78	0.3006
Middle		1	0	23.26	0.2118	24.76	0.2992
Highest		1	0	23.24	0.2109	24.74	0.2979
Lowest	16QAM	1	0	22.54	0.1795	24.04	0.2535
Middle		1	0	22.43	0.1750	23.93	0.2472
Highest		1	0	22.69	0.1858	24.19	0.2624
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.00	0.1995	24.50	0.2818
Middle		1	12	23.49	0.2234	24.99	0.3155
Highest		1	12	23.19	0.2084	24.69	0.2944
Lowest	16QAM	1	24	22.67	0.1849	24.17	0.2612
Middle		1	24	22.31	0.1702	23.81	0.2404
Highest		1	24	22.79	0.1901	24.29	0.2685
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	23.42	0.2198	24.92	0.3105
Middle		1	25	23.48	0.2228	24.98	0.3148
Highest		1	25	23.52	0.2249	25.02	0.3177
Lowest	16QAM	1	25	22.95	0.1972	24.45	0.2786
Middle		1	25	22.71	0.1866	24.21	0.2636
Highest		1	25	22.59	0.1816	24.09	0.2564
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	23.47	0.2223	24.97	0.3141
Middle		1	37	23.22	0.2099	24.72	0.2965
Highest		1	37	23.45	0.2213	24.95	0.3126
Lowest	16QAM	1	37	22.65	0.1841	24.15	0.2600
Middle		1	37	21.94	0.1563	23.44	0.2208
Highest		1	37	22.40	0.1738	23.90	0.2455
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.69	0.2339	25.19	0.3304
Middle		1	49	23.53	0.2254	25.03	0.3184
Highest		1	49	23.57	0.2275	25.07	0.3214
Lowest	16QAM	1	49	22.04	0.1600	23.54	0.2259
Middle		1	49	22.05	0.1603	23.55	0.2265
Highest		1	49	22.78	0.1897	24.28	0.2679
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	24.02	0.2523	25.02	0.3177
Middle		3	1	23.75	0.2371	24.75	0.2985
Highest		3	1	23.82	0.2410	24.82	0.3034
Lowest	16QAM	3	1	23.07	0.2028	24.07	0.2553
Middle		3	1	23.14	0.2061	24.14	0.2594
Highest		3	1	22.96	0.1977	23.96	0.2489
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	24.05	0.2541	25.05	0.3199
Middle		1	14	23.69	0.2339	24.69	0.2944
Highest		1	14	23.74	0.2366	24.74	0.2979
Lowest	16QAM	1	0	22.67	0.1849	23.67	0.2328
Middle		1	0	22.94	0.1968	23.94	0.2477
Highest		1	0	22.46	0.1762	23.46	0.2218
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.96	0.2489	24.96	0.3133
Middle		1	12	24.02	0.2523	25.02	0.3177
Highest		1	12	23.98	0.2500	24.98	0.3148
Lowest	16QAM	1	12	23.31	0.2143	24.31	0.2698
Middle		1	12	22.53	0.1791	23.53	0.2254
Highest		1	12	22.97	0.1982	23.97	0.2495
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	24.10	0.2570	25.10	0.3236
Middle		1	25	24.00	0.2512	25.00	0.3162
Highest		1	25	23.90	0.2455	24.90	0.3090
Lowest	16QAM	1	25	23.36	0.2168	24.36	0.2729
Middle		1	25	23.23	0.2104	24.23	0.2649
Highest		1	25	23.30	0.2138	24.30	0.2692
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	24.01	0.2518	25.01	0.3170
Middle		1	37	23.74	0.2366	24.74	0.2979
Highest		1	37	24.05	0.2541	25.05	0.3199
Lowest	16QAM	1	0	23.37	0.2173	24.37	0.2735
Middle		1	0	23.22	0.2099	24.22	0.2642
Highest		1	0	23.13	0.2056	24.13	0.2588
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.11	0.2576	25.11	0.3243
Middle		1	0	23.63	0.2307	24.63	0.2904
Highest		1	0	23.67	0.2328	24.67	0.2931
Lowest	16QAM	1	49	22.72	0.1871	23.72	0.2355
Middle		1	49	23.00	0.1995	24.00	0.2512
Highest		1	49	23.02	0.2004	24.02	0.2523
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	23.65	0.2317	20.50	0.1122
Middle		3	1	23.79	0.2393	20.64	0.1159
Highest		3	1	23.61	0.2296	20.46	0.1112
Lowest	16QAM	1	5	22.98	0.1986	19.83	0.0962
Middle		1	5	22.87	0.1936	19.72	0.0938
Highest		1	5	22.51	0.1782	19.36	0.0863
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.71	0.2350	20.56	0.1138
Middle		1	0	23.82	0.2410	20.67	0.1167
Highest		1	0	23.75	0.2371	20.60	0.1148
Lowest	16QAM	1	0	22.91	0.1954	19.76	0.0946
Middle		1	0	22.83	0.1919	19.68	0.0929
Highest		1	0	22.69	0.1858	19.54	0.0899
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.92	0.2466	20.77	0.1194
Middle		1	12	23.62	0.2301	20.47	0.1114
Highest		1	12	23.85	0.2427	20.70	0.1175
Lowest	16QAM	1	0	22.90	0.1950	19.75	0.0944
Middle		1	0	22.88	0.1941	19.73	0.0940
Highest		1	0	22.70	0.1862	19.55	0.0902
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average) (GT - LC = -1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	23.90	0.2455	20.75	0.1189
Middle		1	25	23.85	0.2427	20.70	0.1175
Highest		1	25	23.96	0.2489	20.81	0.1205
Lowest	16QAM	1	0	22.90	0.1950	19.75	0.0944
Middle		1	0	22.96	0.1977	19.81	0.0957
Highest		1	0	22.70	0.1862	19.55	0.0902
Limit	ERP < 7W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	3	23.67	0.2328	19.52	0.0895
Middle		3	3	23.67	0.2328	19.52	0.0895
Highest		3	3	23.81	0.2404	19.66	0.0925
Lowest	16QAM	1	3	23.19	0.2084	19.04	0.0802
Middle		1	3	23.33	0.2153	19.18	0.0828
Highest		1	3	23.14	0.2061	18.99	0.0793
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.82	0.2410	19.67	0.0927
Middle		1	0	23.74	0.2366	19.59	0.0910
Highest		1	0	23.71	0.2350	19.56	0.0904
Lowest	16QAM	1	14	22.93	0.1963	18.78	0.0755
Middle		1	14	23.13	0.2056	18.98	0.0791
Highest		1	14	23.23	0.2104	19.08	0.0809
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.83	0.2415	19.68	0.0929
Middle		1	12	23.63	0.2307	19.48	0.0887
Highest		1	12	23.84	0.2421	19.69	0.0931
Lowest	16QAM	1	24	22.90	0.1950	18.75	0.0750
Middle		1	24	23.19	0.2084	19.04	0.0802
Highest		1	24	23.27	0.2123	19.12	0.0817
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average) (GT - LC = -2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	24.00	0.2512	19.85	0.0966
Middle		1	25	23.68	0.2333	19.53	0.0897
Highest		1	25	23.91	0.2460	19.76	0.0946
Lowest	16QAM	1	25	22.69	0.1858	18.54	0.0714
Middle		1	25	22.95	0.1972	18.80	0.0759
Highest		1	25	23.23	0.2104	19.08	0.0809
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.72	0.2355	21.07	0.1279
Middle		1	12	23.88	0.2443	21.23	0.1327
Highest		1	12	23.61	0.2296	20.96	0.1247
Lowest	16QAM	1	0	23.28	0.2128	20.63	0.1156
Middle		1	0	22.54	0.1795	19.89	0.0975
Highest		1	0	22.55	0.1799	19.90	0.0977
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	25	23.89	0.2449	21.24	0.1330
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	23.42	0.2198	20.77	0.1194
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



Radiated Spurious Emission

Part24E 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	3721	-58.70	-13	-45.70	-76.5	-68.98	1.98	12.27	H
	5580	-56.08	-13	-43.08	-77.28	-66.26	2.14	12.31	H
	7440	-51.74	-13	-38.74	-76.75	-59.70	2.15	10.11	H
									H
	3721	-59.04	-13	-46.04	-76.27	-69.32	1.98	12.27	V
	5580	-55.84	-13	-42.84	-77.26	-66.02	2.14	12.31	V
	7440	-52.77	-13	-39.77	-76.87	-60.73	2.15	10.11	V
									V
Middle	3763	-58.54	-13	-45.54	-76.2	-68.78	2.01	12.24	H
	5640	-56.03	-13	-43.03	-77.2	-66.30	2.12	12.40	H
	7520	-50.96	-13	-37.96	-76.45	-58.92	2.11	10.07	H
									H
	3763	-59.25	-13	-46.25	-76.41	-69.49	2.01	12.24	V
	5640	-55.94	-13	-42.94	-77.3	-66.21	2.12	12.40	V
	7520	-51.74	-13	-38.74	-76.47	-59.70	2.11	10.07	V
									V
Highest	3800	-58.73	-13	-45.73	-76.28	-68.92	2.03	12.22	H
	5700	-56.02	-13	-43.02	-77.24	-66.39	2.11	12.48	H
	7600	-51.07	-13	-38.07	-76.36	-59.32	2.11	10.36	H
									H
	3800	-58.58	-13	-45.58	-75.69	-68.77	2.03	12.22	V
	5700	-55.62	-13	-42.62	-76.98	-65.99	2.11	12.48	V
	7600	-51.54	-13	-38.54	-76.41	-59.79	2.11	10.36	V
									V

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



Part27L LTE Band 4

LTE Band 4 / 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	3420	-59.23	-13	-46.23	-76.07	-69.59	1.80	12.16	H
	5130	-56.23	-13	-43.23	-76.85	-66.05	2.31	12.13	H
	6843	-53.36	-13	-40.36	-76.69	-62.05	2.37	11.06	H
									H
	3420	-59.98	-13	-46.98	-76.35	-70.34	1.80	12.16	V
	5130	-56.04	-13	-43.04	-76.6	-65.86	2.31	12.13	V
	6843	-54.25	-13	-41.25	-76.9	-62.94	2.37	11.06	V
									V
Middle	3448	-59.12	-13	-46.12	-76.13	-69.54	1.83	12.24	H
	5170	-56.16	-13	-43.16	-76.8	-66.00	2.29	12.13	H
	6899	-53.09	-13	-40.09	-76.71	-61.71	2.39	11.00	H
									H
	3448	-59.62	-13	-46.62	-76.16	-70.04	1.83	12.24	V
	5170	-56.64	-13	-43.64	-77.2	-66.48	2.29	12.13	V
	6899	-53.57	-13	-40.57	-76.37	-62.19	2.39	11.00	V
									V
Highest	3469	-59.08	-13	-46.08	-76.27	-69.54	1.84	12.31	H
	5205	-56.93	-13	-43.93	-77.59	-66.80	2.28	12.14	H
	6941	-52.83	-13	-39.83	-76.74	-61.39	2.40	10.96	H
									H
	3469	-59.33	-13	-46.33	-76.06	-69.79	1.84	12.31	V
	5205	-56.77	-13	-43.77	-77.32	-66.64	2.28	12.14	V
	6941	-53.58	-13	-40.58	-76.53	-62.14	2.40	10.96	V
									V

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



Part22H 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	1656	-58.67	-13	-45.67	-71.22	-64.08	1.23	8.79	H
	2488	-60.04	-13	-47.04	-75.24	-66.94	1.44	10.49	H
	3320	-59.37	-13	-46.37	-76.38	-67.36	1.72	11.86	H
									H
	1656	-63.21	-13	-50.21	-73.47	-68.62	1.23	8.79	V
	2488	-60.02	-13	-47.02	-74.71	-66.92	1.44	10.49	V
	3320	-59.88	-13	-46.88	-76.44	-67.87	1.72	11.86	V
									V
Middle	1672	-58.30	-13	-45.30	-71.06	-63.77	1.24	8.85	H
	2512	-59.70	-13	-46.70	-74.85	-66.62	1.44	10.51	H
	3344	-59.64	-13	-46.64	-76.58	-67.68	1.74	11.93	H
									H
	1672	-62.80	-13	-49.80	-73.14	-68.27	1.24	8.85	V
	2512	-59.42	-13	-46.42	-74.12	-66.34	1.44	10.51	V
	3344	-59.85	-13	-46.85	-76.33	-67.89	1.74	11.93	V
									V
Highest	1688	-58.03	-13	-45.03	-71.02	-63.55	1.24	8.91	H
	2536	-57.08	-13	-44.08	-72.17	-64.02	1.44	10.53	H
	3376	-59.72	-13	-46.72	-76.52	-67.83	1.77	12.03	H
									H
	1688	-61.16	-13	-48.16	-71.61	-66.68	1.24	8.91	V
	2536	-57.60	-13	-44.60	-72.29	-64.54	1.44	10.53	V
	3376	-60.12	-13	-47.12	-76.46	-68.23	1.77	12.03	V
									V

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



Part27F LTE Band 12

LTE Band 12 / 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	1408	-56.96	-13.00	-43.96	-68.19	-61.44	1.15	7.78	H
	2112	-60.40	-13.00	-47.40	-75.75	-67.06	1.38	10.19	H
	2816	-59.96	-13.00	-46.96	-75.97	-67.11	1.45	10.75	H
									H
	1408	-56.88	-13.00	-43.88	-67.32	-61.36	1.15	7.78	V
	2112	-61.11	-13.00	-48.11	-75.73	-67.77	1.38	10.19	V
	2816	-60.66	-13.00	-47.66	-76.23	-67.81	1.45	10.75	V
									V
Middle	1416	-48.18	-13.00	-35.18	-59.41	-52.69	1.15	7.81	H
	2120	-60.23	-13.00	-47.23	-75.58	-66.90	1.38	10.20	H
	2832	-60.00	-13.00	-47.00	-76.09	-67.16	1.45	10.77	H
									H
	1416	-46.90	-13.00	-33.90	-57.34	-51.41	1.15	7.81	V
	2120	-61.04	-13.00	-48.04	-75.66	-67.71	1.38	10.20	V
	2832	-60.48	-13.00	-47.48	-76.06	-67.64	1.45	10.77	V
									V
Highest	1424	-49.05	-13.00	-36.05	-60.40	-53.60	1.15	7.85	H
	2133	-60.21	-13.00	-47.21	-75.87	-66.89	1.38	10.21	H
	2844	-59.99	-13.00	-46.99	-76.16	-67.16	1.45	10.78	H
									H
	1424	-48.61	-13.00	-35.61	-59.16	-53.16	1.15	7.85	V
	2133	-60.71	-13.00	-47.71	-75.65	-67.39	1.38	10.21	V
	2844	-60.61	-13.00	-47.61	-76.21	-67.78	1.45	10.78	V
									V

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



Part27F LTE Band 13

LTE Band 13 / 5MHz / 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	1560	-57.79	-42.15	-15.64	-69.59	-62.88	1.19	8.43	H
	2336	-52.71	-13	-39.71	-68.94	-59.52	1.41	10.37	H
	3896	-56.20	-13	-43.20	-74.05	-64.14	2.08	12.16	H
									H
	1560	-64.65	-42.15	-22.50	-74.96	-69.74	1.19	8.43	V
	2336	-52.85	-13	-39.85	-68.18	-59.66	1.41	10.37	V
	3896	-58.84	-13	-45.84	-76.27	-66.78	2.08	12.16	V
									V
Middle	1568	-62.37	-42.15	-20.22	-74.18	-67.48	1.20	8.46	H
	2344	-53.21	-13	-40.21	-69.34	-60.02	1.42	10.38	H
	3128	-59.00	-13	-46.00	-76.23	-66.57	1.56	11.28	H
									H
	1568	-64.70	-42.15	-22.55	-74.81	-69.81	1.20	8.46	V
	2344	-56.55	-13	-43.55	-71.74	-63.36	1.42	10.38	V
	3128	-59.66	-13	-46.66	-76.21	-67.23	1.56	11.28	V
									V
Highest	1568	-62.63	-42.15	-20.48	-74.44	-67.74	1.20	8.46	H
	2351	-54.57	-13	-41.57	-70.70	-61.38	1.42	10.38	H
	3136	-58.95	-13	-45.95	-76.25	-66.54	1.57	11.31	H
									H
	1568	-64.03	-42.15	-21.88	-74.14	-69.14	1.20	8.46	V
	2351	-56.23	-13	-43.23	-71.42	-63.04	1.42	10.38	V
	3136	-59.66	-13	-46.66	-76.34	-67.25	1.57	11.31	V
									V

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



LTE Band 13 / 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)
Middle	1568	-60.34	-42.15	-18.19	-72.15	-65.45	1.20	8.46	H
	2344	-49.25	-13	-36.25	-65.38	-56.06	1.42	10.38	H
	3112	-59.07	-13	-46.07	-76.3	-66.60	1.55	11.24	H
									H
	1568	-64.95	-42.15	-22.80	-75.06	-70.06	1.20	8.46	V
	2344	-56.98	-13	-43.98	-72.17	-63.79	1.42	10.38	V
	3112	-59.77	-13	-46.77	-76.32	-67.30	1.55	11.24	V
									V

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