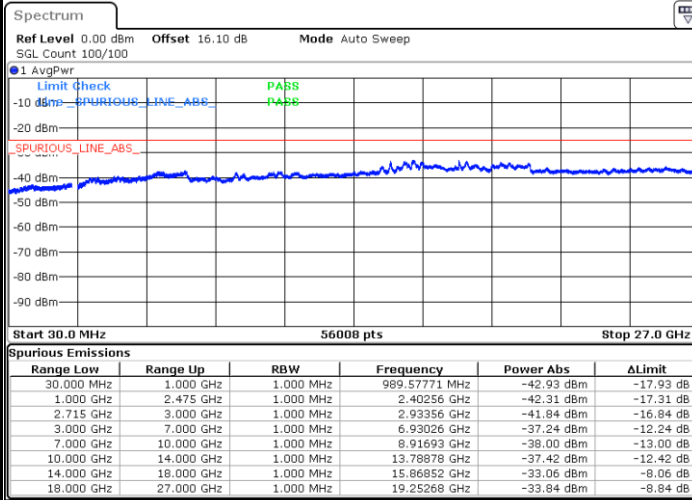




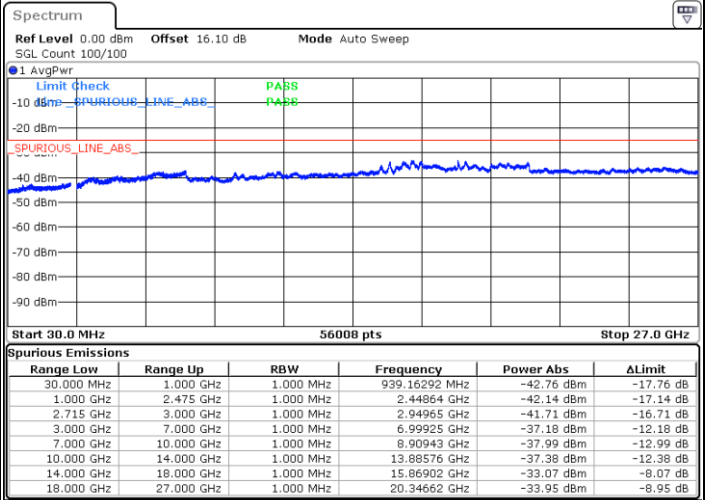
LTE Band 41 / 15MHz

Lowest Channel / QPSK



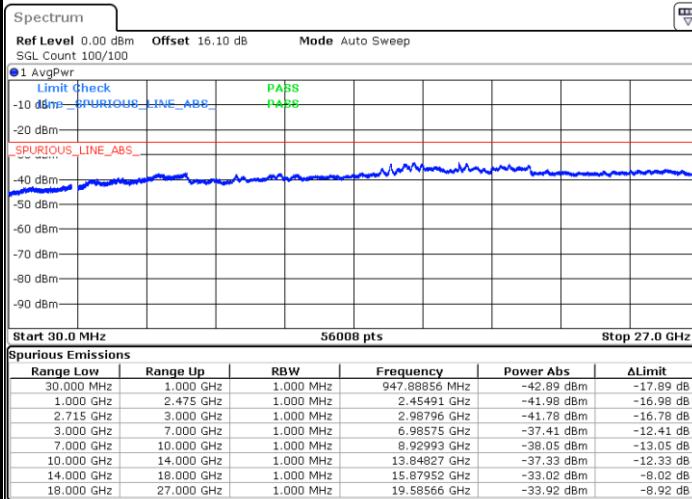
Date: 22.JUL.2020 12:36:21

Lowest Channel / 16QAM



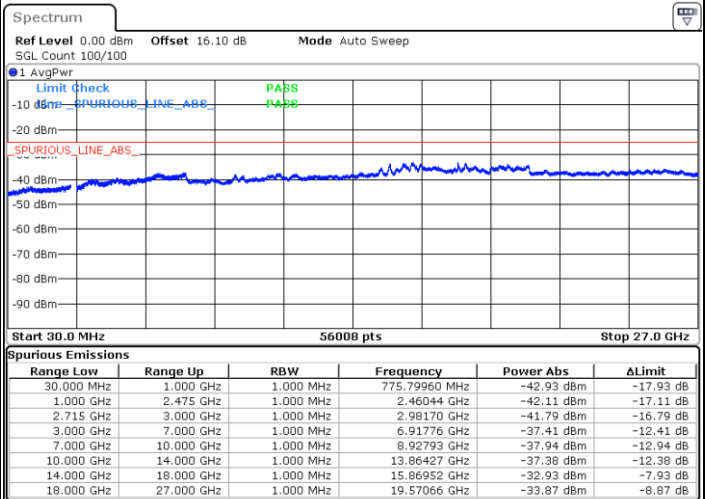
Date: 22.JUL.2020 12:37:22

Middle Channel / QPSK



Date: 22.JUL.2020 13:37:01

Middle Channel / 16QAM

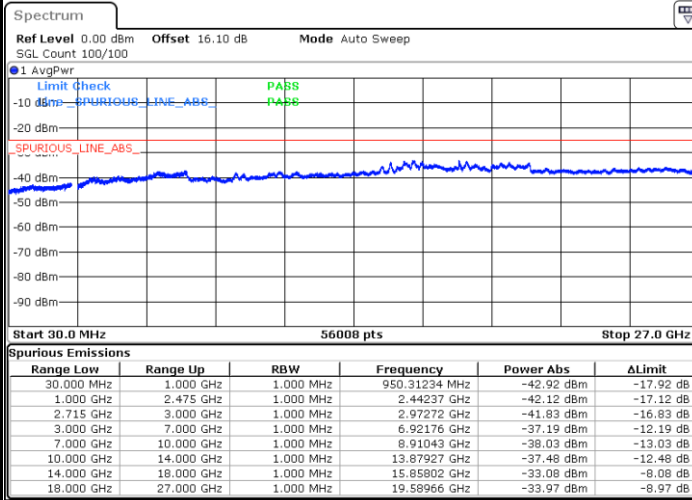


Date: 22.JUL.2020 13:38:01



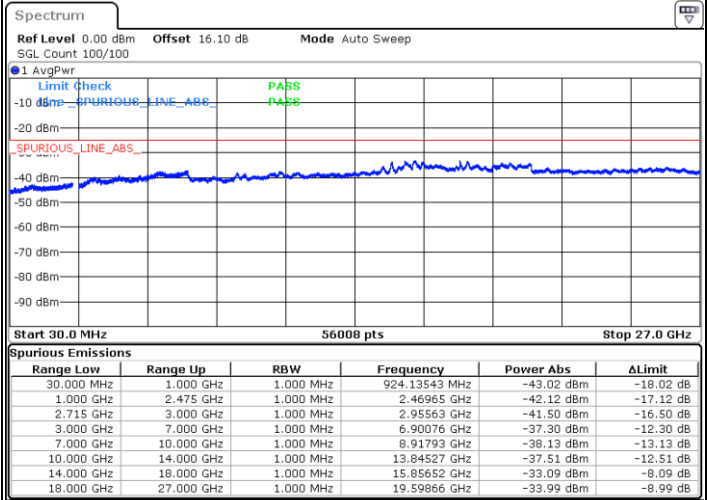
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 22.JUL.2020 13:39:02

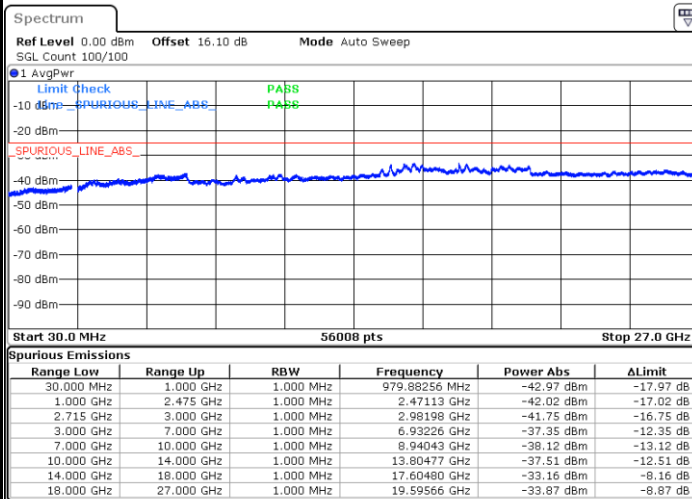
Highest Channel / 16QAM



Date: 22.JUL.2020 13:40:04

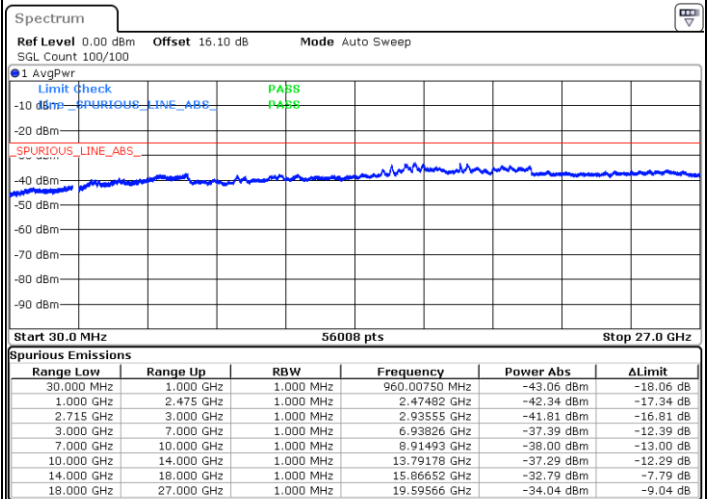
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 22.JUL.2020 13:41:05

Lowest Channel / 16QAM

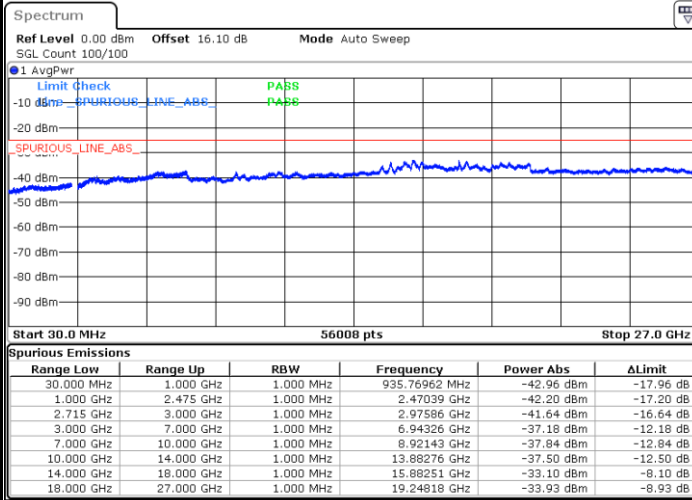


Date: 22.JUL.2020 13:42:07



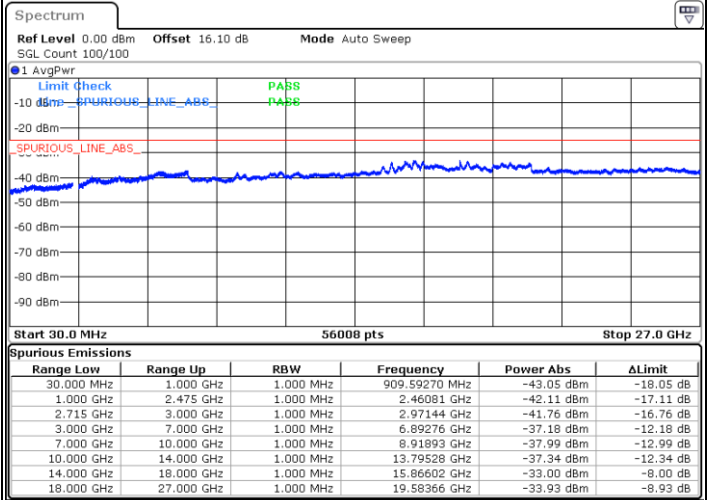
LTE Band 41 / 20MHz

Middle Channel / QPSK



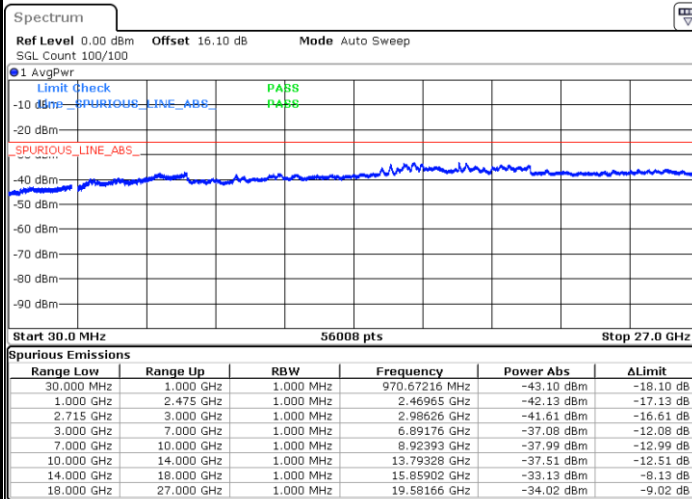
Date: 22.JUL.2020 13:43:08

Middle Channel / 16QAM



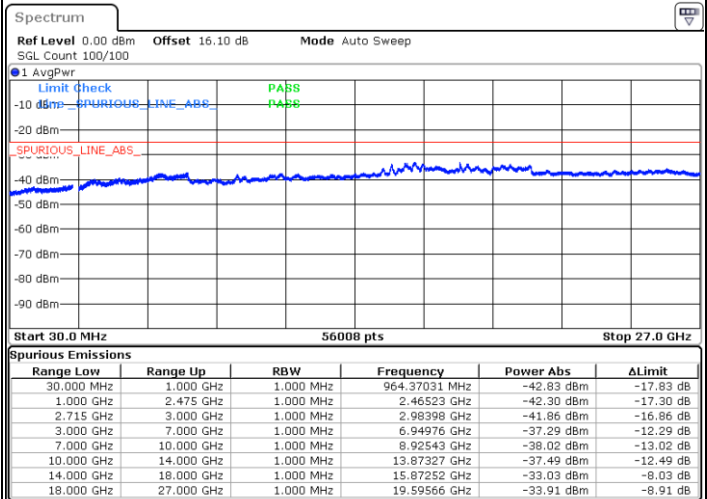
Date: 22.JUL.2020 13:44:08

Highest Channel / QPSK



Date: 22.JUL.2020 13:45:09

Highest Channel / 16QAM

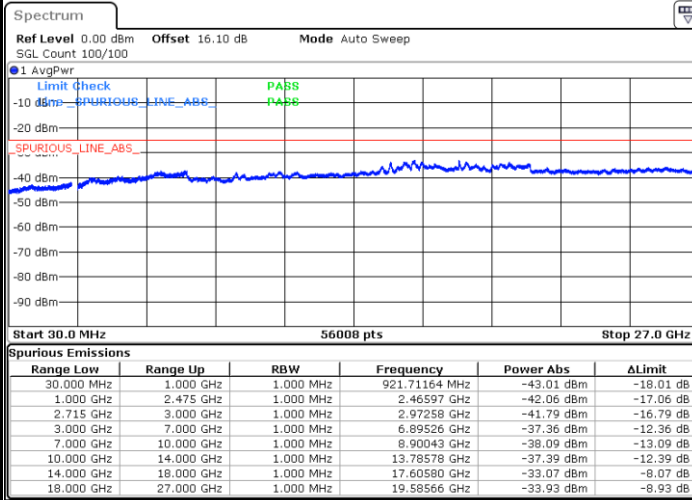


Date: 22.JUL.2020 13:46:10



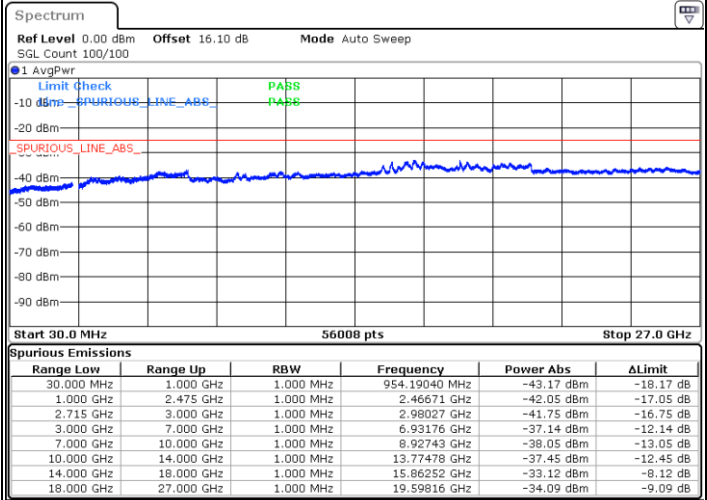
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



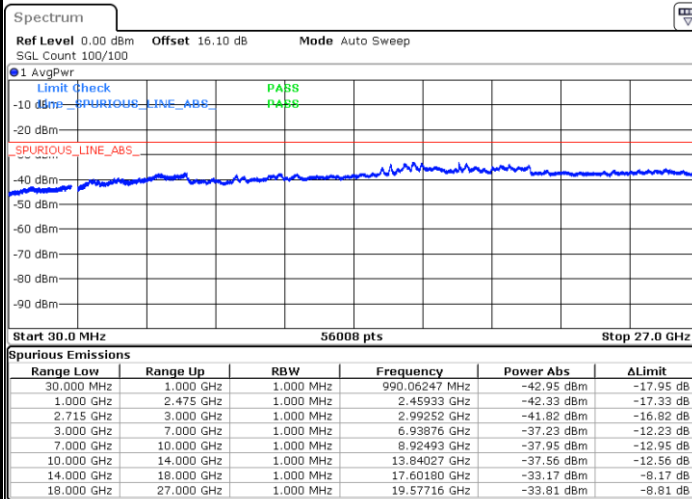
Date: 22.JUL.2020 12:11:53

Middle Channel / 64QAM



Date: 22.JUL.2020 12:12:54

Highest Channel / 64QAM

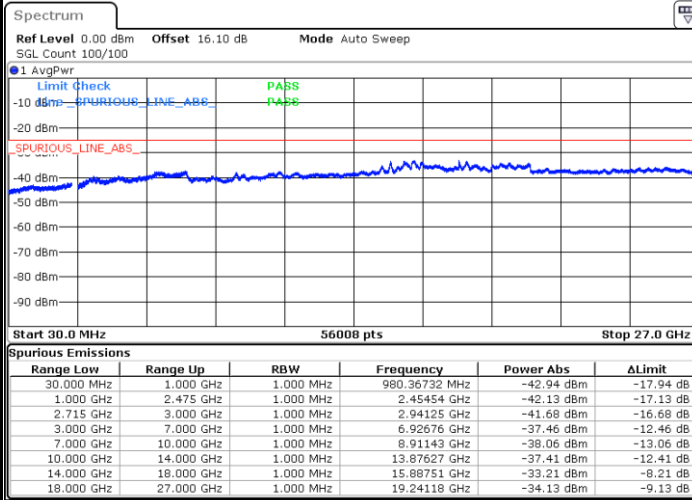


Date: 22.JUL.2020 12:13:55



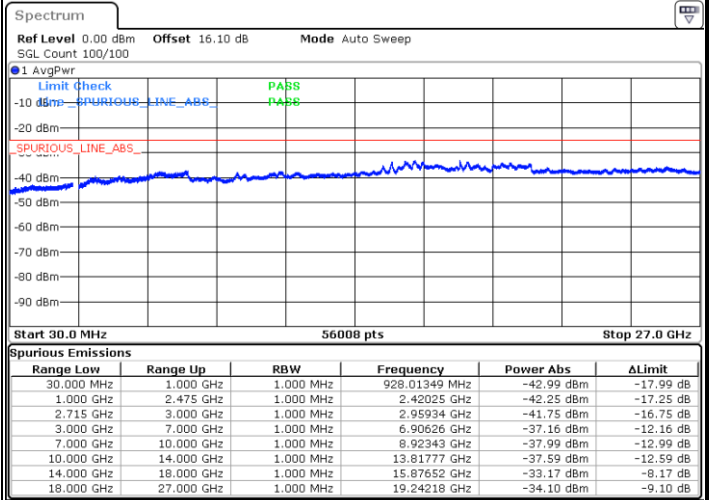
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



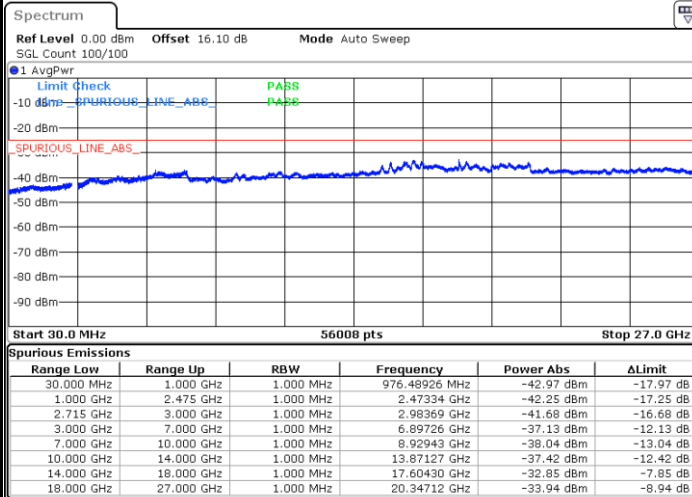
Date: 22.JUL.2020 12:14:57

Middle Channel / 64QAM



Date: 22.JUL.2020 12:15:58

Highest Channel / 64QAM

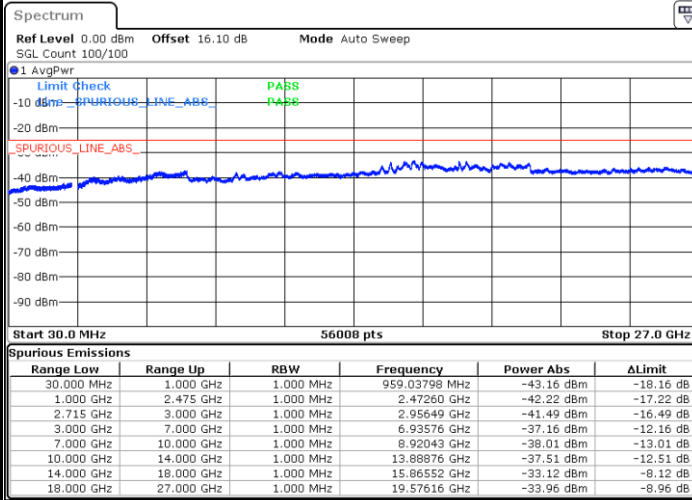


Date: 22.JUL.2020 12:16:59



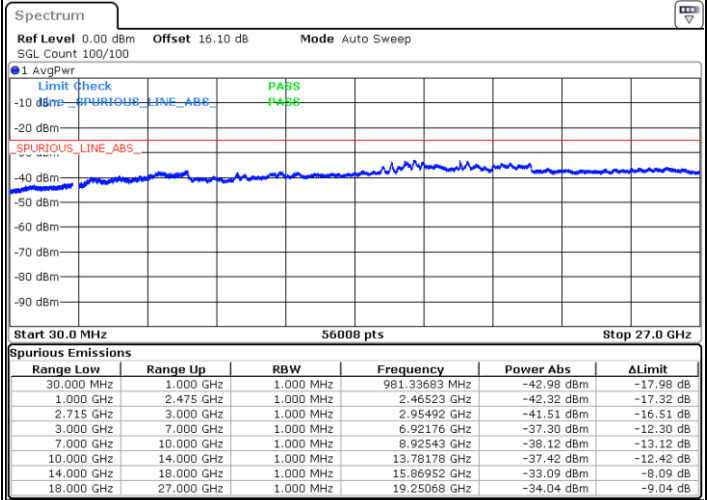
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



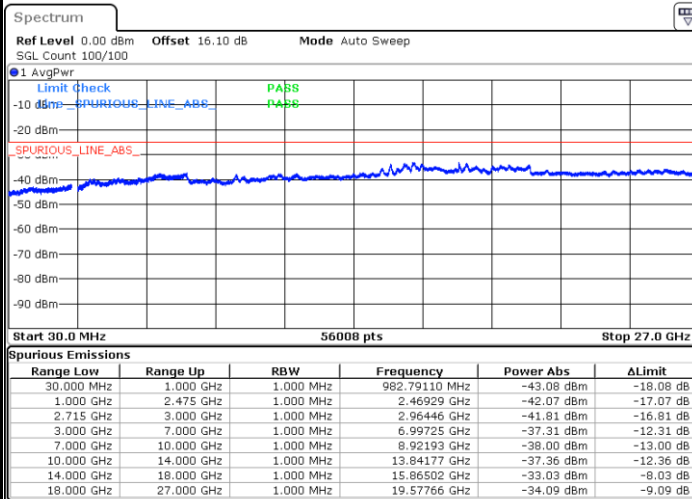
Date: 22.JUL.2020 12:18:01

Middle Channel / 64QAM



Date: 22.JUL.2020 12:19:01

Highest Channel / 64QAM

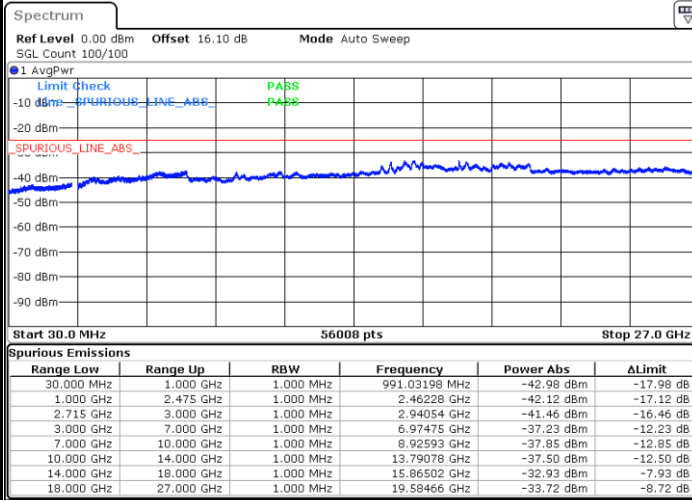


Date: 22.JUL.2020 12:20:02



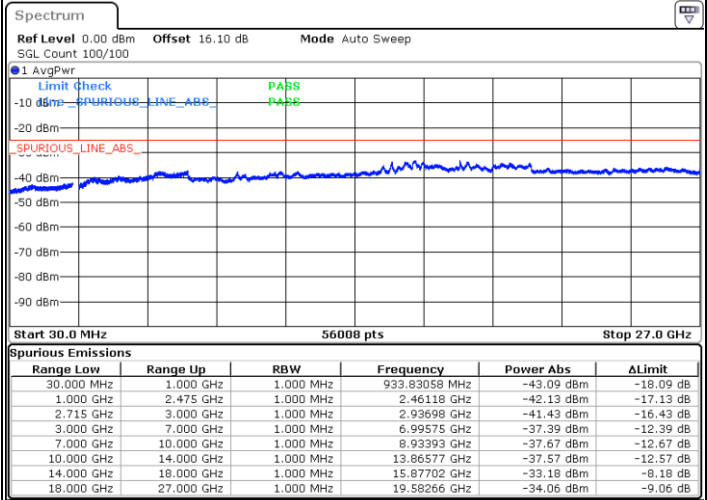
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



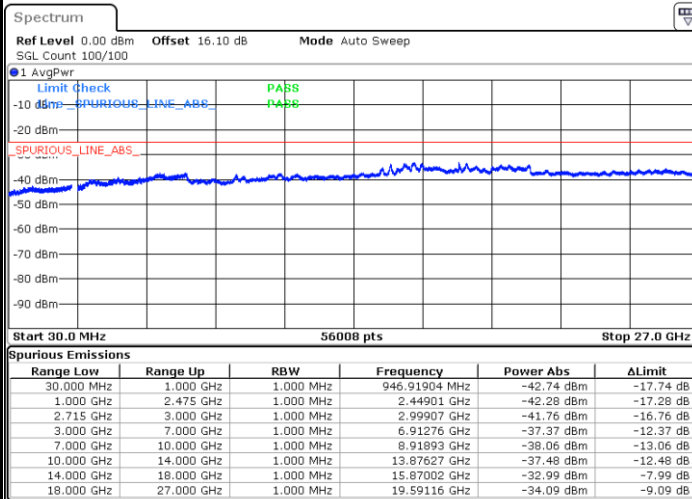
Date: 22.JUL.2020 12:21:04

Middle Channel / 64QAM



Date: 22.JUL.2020 12:22:05

Highest Channel / 64QAM



Date: 22.JUL.2020 12:23:06

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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

ERP/EIRP

LTE Band 4 / 1.4MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	18.11	0.0647	14.31	0.0270
Middle		3	1	18.02	0.0634	14.22	0.0264
Highest		3	1	18.04	0.0637	14.24	0.0265
Lowest	16QAM	1	3	18.44	0.0698	14.64	0.0291
Middle		1	3	18.31	0.0678	14.51	0.0282
Highest		1	3	18.37	0.0687	14.57	0.0286
Lowest	64QAM	1	3	18.32	0.0679	14.52	0.0283
Middle		1	3	18.25	0.0668	14.45	0.0279
Highest		1	3	18.31	0.0678	14.51	0.0282
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	8	4	18.22	0.0664	14.42	0.0277
Middle		8	4	18.16	0.0655	14.36	0.0273
Highest		8	4	18.19	0.0659	14.39	0.0275
Lowest	16QAM	1	8	18.50	0.0708	14.70	0.0295
Middle		1	8	18.39	0.0690	14.59	0.0288
Highest		1	8	18.44	0.0698	14.64	0.0291
Lowest	64QAM	1	8	18.42	0.0695	14.62	0.0290
Middle		1	8	18.42	0.0695	14.62	0.0290
Highest		1	8	18.38	0.0689	14.58	0.0287
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	7	18.19	0.0659	14.39	0.0275
Middle		12	7	18.14	0.0652	14.34	0.0272
Highest		12	7	18.18	0.0658	14.38	0.0274
Lowest	16QAM	1	24	18.44	0.0698	14.64	0.0291
Middle		1	24	18.38	0.0689	14.58	0.0287
Highest		1	24	18.43	0.0697	14.63	0.0290
Lowest	64QAM	1	24	18.36	0.0685	14.56	0.0286
Middle		1	24	18.29	0.0675	14.49	0.0281
Highest		1	24	18.30	0.0676	14.50	0.0282
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	18.28	0.0673	14.48	0.0281
Middle		50	0	18.22	0.0664	14.42	0.0277
Highest		50	0	18.16	0.0655	14.36	0.0273
Lowest	16QAM	1	0	18.52	0.0711	14.72	0.0296
Middle		1	0	18.45	0.0700	14.65	0.0292
Highest		1	0	18.52	0.0711	14.72	0.0296
Lowest	64QAM	1	0	18.44	0.0698	14.64	0.0291
Middle		1	0	18.27	0.0671	14.47	0.0280
Highest		1	0	18.28	0.0673	14.48	0.0281
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	0	18.37	0.0687	14.57	0.0286
Middle		36	0	18.25	0.0668	14.45	0.0279
Highest		36	0	18.26	0.0670	14.46	0.0279
Lowest	16QAM	1	0	18.58	0.0721	14.78	0.0301
Middle		1	0	18.53	0.0713	14.73	0.0297
Highest		1	0	18.55	0.0716	14.75	0.0299
Lowest	64QAM	1	0	18.44	0.0698	14.64	0.0291
Middle		1	0	18.41	0.0693	14.61	0.0289
Highest		1	0	18.44	0.0698	14.64	0.0291
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -3.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	18.38	0.0689	14.58	0.0287
Middle		50	0	18.33	0.0681	14.53	0.0284
Highest		50	0	18.32	0.0679	14.52	0.0283
Lowest	16QAM	1	0	18.69	0.0740	14.89	0.0308
Middle		1	0	18.63	0.0729	14.83	0.0304
Highest		1	0	18.65	0.0733	14.85	0.0305
Lowest	64QAM	1	0	18.57	0.0719	14.77	0.0300
Middle		1	0	18.50	0.0708	14.70	0.0295
Highest		1	0	18.50	0.0708	14.70	0.0295
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -6.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	23.76	0.2377	15.01	0.0317
Middle		3	1	23.64	0.2312	14.89	0.0308
Highest		3	1	23.48	0.2228	14.73	0.0297
Lowest	16QAM	1	3	23.07	0.2028	14.32	0.0270
Middle		1	3	22.95	0.1972	14.20	0.0263
Highest		1	3	22.80	0.1905	14.05	0.0254
Lowest	64QAM	1	3	22.05	0.1603	13.30	0.0214
Middle		1	3	21.87	0.1538	13.12	0.0205
Highest		1	3	21.70	0.1479	12.95	0.0197
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -6.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.77	0.2382	15.02	0.0318
Middle		1	0	23.64	0.2312	14.89	0.0308
Highest		1	0	23.54	0.2259	14.79	0.0301
Lowest	16QAM	1	8	23.17	0.2075	14.42	0.0277
Middle		1	8	23.06	0.2023	14.31	0.0270
Highest		1	8	22.86	0.1932	14.11	0.0258
Lowest	64QAM	1	8	22.10	0.1622	13.35	0.0216
Middle		1	8	21.97	0.1574	13.22	0.0210
Highest		1	8	21.83	0.1524	13.08	0.0203
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -6.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.78	0.2388	15.03	0.0318
Middle		1	0	23.66	0.2323	14.91	0.0310
Highest		1	0	23.63	0.2307	14.88	0.0308
Lowest	16QAM	1	0	23.18	0.2080	14.43	0.0277
Middle		1	0	23.03	0.2009	14.28	0.0268
Highest		1	0	23.00	0.1995	14.25	0.0266
Lowest	64QAM	1	0	22.13	0.1633	13.38	0.0218
Middle		1	0	21.93	0.1560	13.18	0.0208
Highest		1	0	21.90	0.1549	13.15	0.0207
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -6.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.79	0.2393	15.04	0.0319
Middle		1	0	23.65	0.2317	14.90	0.0309
Highest		1	0	23.59	0.2286	14.84	0.0305
Lowest	16QAM	1	0	23.16	0.2070	14.41	0.0276
Middle		1	0	23.03	0.2009	14.28	0.0268
Highest		1	0	22.96	0.1977	14.21	0.0264
Lowest	64QAM	1	0	22.03	0.1596	13.28	0.0213
Middle		1	0	21.91	0.1552	13.16	0.0207
Highest		1	0	21.86	0.1535	13.11	0.0205
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	0	17.59	0.0574	10.79	0.0120
Middle		12	0	17.47	0.0558	10.67	0.0117
Highest		12	0	17.53	0.0566	10.73	0.0118
Lowest	16QAM	1	24	17.77	0.0598	10.97	0.0125
Middle		1	24	17.80	0.0603	11.00	0.0126
Highest		1	24	17.73	0.0593	10.93	0.0124
Lowest	64QAM	1	0	17.68	0.0586	10.88	0.0122
Middle		1	0	17.64	0.0581	10.84	0.0121
Highest		1	0	17.77	0.0598	10.97	0.0125
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	25	17.58	0.0573	10.78	0.0120
Middle		25	25	17.54	0.0568	10.74	0.0119
Highest		25	25	17.58	0.0573	10.78	0.0120
Lowest	16QAM	1	49	17.79	0.0601	10.99	0.0126
Middle		1	49	17.76	0.0597	10.96	0.0125
Highest		1	49	17.78	0.0600	10.98	0.0125
Lowest	64QAM	1	49	17.73	0.0593	10.93	0.0124
Middle		1	49	17.71	0.0590	10.91	0.0123
Highest		1	49	17.68	0.0586	10.88	0.0122
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	17.64	0.0581	10.84	0.0121
Middle		36	20	17.62	0.0578	10.82	0.0121
Highest		36	20	17.62	0.0578	10.82	0.0121
Lowest	16QAM	1	74	17.82	0.0605	11.02	0.0126
Middle		1	74	17.81	0.0604	11.01	0.0126
Highest		1	74	17.82	0.0605	11.02	0.0126
Lowest	64QAM	1	37	17.72	0.0592	10.92	0.0124
Middle		1	37	17.68	0.0586	10.88	0.0122
Highest		1	37	17.72	0.0592	10.92	0.0124
Limit	EIRP < 2W			Result		PASS	



FCC RADIO TEST REPORT

Report No. : FG042242-02B

LTE Band 7 / 20MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	50	17.62	0.0578	10.82	0.0121
Middle		50	50	17.60	0.0575	10.80	0.0120
Highest		50	50	17.61	0.0577	10.81	0.0121
Lowest	16QAM	1	99	17.83	0.0607	11.03	0.0127
Middle		1	99	17.81	0.0604	11.01	0.0126
Highest		1	99	17.79	0.0601	10.99	0.0126
Lowest	64QAM	1	99	17.80	0.0603	11.00	0.0126
Middle		1	99	17.68	0.0586	10.88	0.0122
Highest		1	99	17.69	0.0587	10.89	0.0123
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -5.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	23.71	0.2350	15.96	0.0394
Middle		3	0	23.56	0.2270	15.81	0.0381
Highest		3	0	23.41	0.2193	15.66	0.0368
Lowest	16QAM	1	3	23.04	0.2014	15.29	0.0338
Middle		1	3	22.88	0.1941	15.13	0.0326
Highest		1	3	22.77	0.1892	15.02	0.0318
Lowest	64QAM	1	3	21.97	0.1574	14.22	0.0264
Middle		1	3	21.83	0.1524	14.08	0.0256
Highest		1	3	21.69	0.1476	13.94	0.0248
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -5.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.74	0.2366	15.99	0.0397
Middle		1	0	23.59	0.2286	15.84	0.0384
Highest		1	0	23.53	0.2254	15.78	0.0378
Lowest	16QAM	1	8	23.12	0.2051	15.37	0.0344
Middle		1	8	23.01	0.2000	15.26	0.0336
Highest		1	8	22.84	0.1923	15.09	0.0323
Lowest	64QAM	1	0	22.05	0.1603	14.30	0.0269
Middle		1	0	21.85	0.1531	14.10	0.0257
Highest		1	0	21.57	0.1435	13.82	0.0241
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -5.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.81	0.2404	16.06	0.0404
Middle		1	0	23.71	0.2350	15.96	0.0394
Highest		1	0	23.69	0.2339	15.94	0.0393
Lowest	16QAM	1	0	23.17	0.2075	15.42	0.0348
Middle		1	0	23.04	0.2014	15.29	0.0338
Highest		1	0	23.01	0.2000	15.26	0.0336
Lowest	64QAM	1	0	21.41	0.1384	13.66	0.0232
Middle		1	0	22.00	0.1585	14.25	0.0266
Highest		1	0	21.93	0.1560	14.18	0.0262
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 10MHz (Average) (GT - LC = -5.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.84	0.2421	16.09	0.0406
Middle		1	0	23.71	0.2350	15.96	0.0394
Highest		1	0	23.68	0.2333	15.93	0.0392
Lowest	16QAM	1	0	23.13	0.2056	15.38	0.0345
Middle		1	0	23.06	0.2023	15.31	0.0340
Highest		1	0	23.09	0.2037	15.34	0.0342
Lowest	64QAM	1	49	22.06	0.1607	14.31	0.0270
Middle		1	49	21.99	0.1581	14.24	0.0265
Highest		1	49	21.90	0.1549	14.15	0.0260
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -4.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.91	0.2460	16.86	0.0485
Middle		1	0	23.81	0.2404	16.76	0.0474
Highest		1	0	23.79	0.2393	16.74	0.0472
Lowest	16QAM	1	24	23.22	0.2099	16.17	0.0414
Middle		1	24	23.16	0.2070	16.11	0.0408
Highest		1	24	23.15	0.2065	16.10	0.0407
Lowest	64QAM	1	24	22.14	0.1637	15.09	0.0323
Middle		1	24	22.12	0.1629	15.07	0.0321
Highest		1	24	22.03	0.1596	14.98	0.0315
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -4.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	49	23.92	0.2466	16.87	0.0486
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	23.21	0.2094	16.16	0.0413
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	22.11	0.1626	15.06	0.0321
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -5.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.84	0.2421	16.09	0.0406
Middle		1	0	23.75	0.2371	16.00	0.0398
Highest		1	0	23.73	0.2360	15.98	0.0396
Lowest	16QAM	1	24	23.19	0.2084	15.44	0.0350
Middle		1	24	23.06	0.2023	15.31	0.0340
Highest		1	24	23.04	0.2014	15.29	0.0338
Lowest	64QAM	1	0	22.10	0.1622	14.35	0.0272
Middle		1	0	22.01	0.1589	14.26	0.0267
Highest		1	0	22.02	0.1592	14.27	0.0267
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -5.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.81	0.2404	16.06	0.0404
Middle		1	0	23.79	0.2393	16.04	0.0402
Highest		1	0	23.75	0.2371	16.00	0.0398
Lowest	16QAM	1	0	23.20	0.2089	15.45	0.0351
Middle		1	0	23.15	0.2065	15.40	0.0347
Highest		1	0	23.11	0.2046	15.36	0.0344
Lowest	64QAM	1	0	22.10	0.1622	14.35	0.0272
Middle		1	0	22.01	0.1589	14.26	0.0267
Highest		1	0	21.96	0.1570	14.21	0.0264
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	7	17.37	0.0546	10.57	0.0114
Middle		12	7	17.48	0.0560	10.68	0.0117
Highest		12	7	17.74	0.0594	10.94	0.0124
Lowest	16QAM	1	0	17.38	0.0547	10.58	0.0114
Middle		1	0	17.45	0.0556	10.65	0.0116
Highest		1	0	17.83	0.0607	11.03	0.0127
Lowest	64QAM	12	7	17.37	0.0546	10.57	0.0114
Middle		12	7	17.50	0.0562	10.70	0.0117
Highest		12	7	17.78	0.0600	10.98	0.0125
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	12	17.18	0.0522	10.38	0.0109
Middle		25	12	17.36	0.0545	10.56	0.0114
Highest		25	12	17.68	0.0586	10.88	0.0122
Lowest	16QAM	1	49	17.21	0.0526	10.41	0.0110
Middle		1	49	17.39	0.0548	10.59	0.0115
Highest		1	49	17.64	0.0581	10.84	0.0121
Lowest	64QAM	25	12	17.27	0.0533	10.47	0.0111
Middle		25	12	17.33	0.0541	10.53	0.0113
Highest		25	12	17.70	0.0589	10.90	0.0123
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	17.28	0.0535	10.48	0.0112
Middle		36	20	17.40	0.0550	10.60	0.0115
Highest		36	20	17.70	0.0589	10.90	0.0123
Lowest	16QAM	1	74	17.25	0.0531	10.45	0.0111
Middle		1	74	17.48	0.0560	10.68	0.0117
Highest		1	74	17.71	0.0590	10.91	0.0123
Lowest	64QAM	36	20	17.29	0.0536	10.49	0.0112
Middle		36	20	17.43	0.0553	10.63	0.0116
Highest		36	20	17.73	0.0593	10.93	0.0124
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = -6.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	17.29	0.0536	10.49	0.0112
Middle		50	0	17.39	0.0548	10.59	0.0115
Highest		50	0	17.67	0.0585	10.87	0.0122
Lowest	16QAM	50	50	17.35	0.0543	10.55	0.0114
Middle		50	50	17.46	0.0557	10.66	0.0116
Highest		50	50	17.72	0.0592	10.92	0.0124
Lowest	64QAM	50	0	17.31	0.0538	10.51	0.0112
Middle		50	0	17.40	0.0550	10.60	0.0115
Highest		50	0	17.71	0.0590	10.91	0.0123
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission****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	-53.52	-13	-40.52	-69.59	-64.48	1.35	12.31	H
	5135	-48.19	-13	-35.19	-69.7	-59.33	1.65	12.79	H
	6843	-42.42	-13	-29.42	-67.95	-52.80	1.74	12.12	H
									H
									H
									H
	3420	-53.28	-13	-40.28	-69.77	-64.24	1.35	12.31	V
	5135	-48.72	-13	-35.72	-69.98	-59.86	1.65	12.79	V
	6843	-42.98	-13	-29.98	-68.11	-53.36	1.74	12.12	V
									V
									V
									V
Middle	3448	-52.90	-13	-39.90	-69.24	-63.92	1.35	12.38	H
	5170	-48.15	-13	-35.15	-69.7	-59.33	1.65	12.84	H
	6892	-42.42	-13	-29.42	-68.2	-52.74	1.74	12.05	H
									H
									H
									H
	3448	-52.86	-13	-39.86	-69.59	-63.88	1.35	12.38	V
	5170	-48.39	-13	-35.39	-69.73	-59.57	1.65	12.84	V
	6892	-42.48	-13	-29.48	-67.83	-52.80	1.74	12.05	V
									V
									V



Highest	3469	-53.02	-13	-40.02	-69.57	-64.09	1.35	12.43	H
	5208	-47.90	-13	-34.90	-69.5	-59.13	1.66	12.89	H
	6941	-42.26	-13	-29.26	-68.31	-52.51	1.73	11.98	H
									H
									H
									H
	3469	-54.08	-13	-41.08	-71.01	-65.15	1.35	12.43	V
	5208	-49.49	-13	-36.49	-70.92	-60.72	1.66	12.89	V
	6941	-43.88	-13	-30.88	-69.47	-54.13	1.73	11.98	V
									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	-60.56	-13	-47.56	-70.23	-66.15	0.92	8.66	H
	2472	-43.33	-13	-30.33	-57.18	-50.70	1.14	10.66	H
	3296	-55.45	-13	-42.45	-70.88	-63.99	1.32	12.01	H
									H
									H
									H
									H
	1648	-60.87	-13	-47.87	-70.01	-66.46	0.92	8.66	V
	2472	-47.51	-13	-34.51	-61.51	-54.88	1.14	10.66	V
	3296	-55.08	-13	-42.08	-70.98	-63.62	1.32	12.01	V
									V
									V
									V
									V
Middle	1664	-60.74	-13	-47.74	-70.43	-66.39	0.93	8.72	H
	2496	-36.98	-13	-23.98	-50.84	-44.38	1.15	10.69	H
	3328	-55.62	-13	-42.62	-70.96	-64.23	1.33	12.09	H
									H
									H
									H
									H
	1664	-61.50	-13	-48.50	-70.6	-67.15	0.93	8.72	V
	2496	-41.48	-13	-28.48	-55.55	-48.88	1.15	10.69	V
	3328	-55.08	-13	-42.08	-70.88	-63.69	1.33	12.09	V
									V
									V
									V
									V



Highest	1680	-60.90	-13	-47.90	-70.63	-66.60	0.93	8.78	H
	2520	-36.61	-13	-23.61	-50.47	-44.03	1.15	10.72	H
	3360	-55.31	-13	-42.31	-70.58	-63.99	1.33	12.16	H
									H
									H
									H
									H
	1680	-61.67	-13	-48.67	-70.75	-67.37	0.93	8.78	V
	2520	-40.50	-13	-27.50	-54.53	-47.92	1.15	10.72	V
	3360	-54.79	-13	-41.79	-70.5	-63.47	1.33	12.16	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 / 20MHz / 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	5004	-50.42	-25	-25.42	-71.82	-61.41	1.61	12.61	H
	7503	-44.34	-25	-19.34	-70.92	-53.45	1.99	11.10	H
	10004	-41.93	-25	-16.93	-70.89	-50.83	2.40	11.30	H
									H
									H
									H
									H
	5004	-50.20	-25	-25.20	-71.16	-61.19	1.61	12.61	V
	7503	-44.80	-25	-19.80	-71.35	-53.91	1.99	11.10	V
	10004	-41.34	-25	-16.34	-71.08	-50.24	2.40	11.30	V
									V
									V
									V
									V
Middle	5052	-50.21	-25	-25.21	-71.66	-61.26	1.62	12.67	H
	7578	-45.33	-25	-20.33	-71.5	-54.44	2.00	11.12	H
	10104	-41.82	-25	-16.82	-71.09	-50.64	2.40	11.22	H
									H
									H
									H
									H
	5052	-50.48	-25	-25.48	-71.56	-61.53	1.62	12.67	V
	7578	-45.61	-25	-20.61	-71.74	-54.72	2.00	11.12	V
	10104	-41.24	-25	-16.24	-71.08	-50.06	2.40	11.22	V
									V
									V
									V
									V



Highest	5100	-49.94	-25	-24.94	-71.42	-61.04	1.64	12.74	H
	7653	-45.79	-25	-20.79	-71.86	-54.91	2.01	11.13	H
	10206	-41.68	-25	-16.68	-71.26	-50.42	2.40	11.14	H
									H
									H
									H
									H
	5100	-50.53	-25	-25.53	-71.71	-61.63	1.64	12.74	V
	7653	-45.58	-25	-20.58	-71.53	-54.70	2.01	11.13	V
	10206	-41.40	-25	-16.40	-71.33	-50.14	2.40	11.14	V
									V
									V
									V
									V

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

**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	1416	-58.60	-13	-45.60	-69.63	-63.32	0.85	7.71	H
	2128	-57.38	-13	-44.38	-70.78	-64.34	1.07	10.18	H
	2832	-55.64	-13	-42.64	-70.17	-63.36	1.23	11.10	H
									H
									H
									H
									H
	1400	-60.15	-13	-47.15	-69.95	-64.80	0.84	7.64	V
	2096	-58.11	-13	-45.11	-70.41	-65.03	1.06	10.13	V
	2800	-56.00	-13	-43.00	-70.47	-63.69	1.22	11.06	V
									V
									V
									V
									V
Middle	1408	-58.11	-13	-45.11	-69.09	-62.79	0.85	7.68	H
	2112	-56.72	-13	-43.72	-70.40	-63.66	1.06	10.16	H
	2816	-56.34	-13	-43.34	-70.93	-64.04	1.23	11.08	H
									H
									H
									H
									H
	1408	-59.89	-13	-46.89	-69.65	-64.57	0.85	7.68	V
	2112	-57.92	-13	-44.92	-70.48	-64.86	1.06	10.16	V
	2816	-56.04	-13	-43.04	-70.59	-63.74	1.23	11.08	V
									V
									V
									V
									V



Highest	1416	-58.68	-13	-45.68	-69.62	-63.40	0.85	7.71	H
	2020	-56.63	-13	-43.63	-70.44	-63.46	1.04	10.03	H
	2824	-56.10	-13	-43.10	-70.73	-63.81	1.23	11.09	H
									H
									H
									H
									H
	1416	-60.34	-13	-47.34	-70.07	-65.06	0.85	7.71	V
	2020	-57.58	-13	-44.58	-70.26	-64.41	1.04	10.03	V
	2824	-56.18	-13	-43.18	-70.78	-63.89	1.23	11.09	V
									V
									V
									V
									V

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

**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	1552	-60.60	-13	-47.60	-70.60	-65.86	0.89	8.30	H
	2336	-56.35	-13	-43.35	-70.61	-63.56	1.11	10.47	H
	3112	-55.36	-13	-42.36	-70.88	-63.49	1.29	11.57	H
									H
									H
									H
									H
	1552	-61.36	-13	-48.36	-70.65	-66.62	0.89	8.30	V
	2336	-56.80	-13	-43.80	-70.63	-64.01	1.11	10.47	V
	3112	-54.61	-13	-41.61	-70.47	-62.74	1.29	11.57	V
									V
									V
									V
									V
Middle	1560	-60.38	-42.15	-18.23	-70.30	-65.67	0.89	8.33	H
	2336	-56.58	-13	-43.58	-70.84	-63.79	1.11	10.47	H
	3120	-55.27	-13	-42.27	-70.80	-63.42	1.29	11.59	H
									H
									H
									H
									H
	1560	-61.13	-42.15	-18.98	-70.41	-66.42	0.89	8.33	V
	2336	-56.01	-13	-43.01	-69.84	-63.22	1.11	10.47	V
	3120	-55.06	-13	-42.06	-70.95	-63.21	1.29	11.59	V
									V
									V
									V
									V



Highest	1568	-60.20	-42.15	-18.05	-70.06	-65.52	0.89	8.36	H
	2344	-56.55	-13	-43.55	-70.75	-63.77	1.12	10.48	H
	3128	-55.03	-13	-42.03	-70.57	-63.19	1.29	11.61	H
									H
									H
									H
									H
	1568	-61.21	-42.15	-19.06	-70.48	-66.53	0.89	8.36	V
	2344	-56.99	-13	-43.99	-70.82	-64.21	1.12	10.48	V
	3128	-54.79	-13	-41.79	-70.71	-62.95	1.29	11.61	V
									V
									V
									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	1560	-60.18	-42.15	-18.03	-70.1	-65.47	0.89	8.33	H
	2336	-56.59	-13	-43.59	-70.85	-63.80	1.11	10.47	H
	3120	-55.31	-13	-42.31	-70.84	-63.46	1.29	11.59	H
									H
									H
									H
									H
	1560	-61.14	-42.15	-18.99	-70.42	-66.43	0.89	8.33	V
	2336	-56.64	-13	-43.64	-70.47	-63.85	1.11	10.47	V
	3120	-44.50	-13	-31.50	-60.39	-52.65	1.29	11.59	V
									V
									V
									V
									V

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

**LTE Band 41**

LTE Band 41 / 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	4994	-50.35	-25	-25.35	-71.74	-61.34	1.61	12.60	H
	7491	-44.89	-25	-19.89	-71.53	-54.02	1.99	11.11	H
	9990	-42.37	-25	-17.37	-71.35	-51.28	2.40	11.30	H
									H
									H
									H
									H
	4994	-50.51	-25	-25.51	-71.44	-61.50	1.61	12.60	V
	7491	-44.91	-25	-19.91	-71.53	-54.04	1.99	11.11	V
	9990	-41.42	-25	-16.42	-71.17	-50.33	2.40	11.30	V
									V
									V
									V
									V
Middle	5168	-49.75	-25	-24.75	-71.3	-60.93	1.65	12.84	H
	7752	-45.35	-25	-20.35	-71.43	-54.48	2.03	11.15	H
	10332	-40.96	-25	-15.96	-70.93	-49.60	2.39	11.03	H
									H
									H
									H
									H
	5168	-50.34	-25	-25.34	-71.68	-61.52	1.65	12.84	V
	7752	-45.13	-25	-20.13	-70.97	-54.26	2.03	11.15	V
	10332	-40.96	-25	-15.96	-71.01	-49.60	2.39	11.03	V
									V
									V
									V
									V



Highest	5342	-49.34	-25	-24.34	-71.47	-60.72	1.70	13.08	H
	8013	-43.78	-25	-18.78	-71.24	-52.95	2.06	11.23	H
	10683	-40.90	-25	-15.90	-71.77	-49.31	2.49	10.90	H
									H
									H
									H
									H
	5342	-49.15	-25	-24.15	-70.94	-60.53	1.70	13.08	V
	8013	-43.65	-25	-18.65	-71	-52.82	2.06	11.23	V
	10683	-41.18	-25	-16.18	-71.81	-49.59	2.49	10.90	V
									V
									V
									V
									V

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

————THE END————