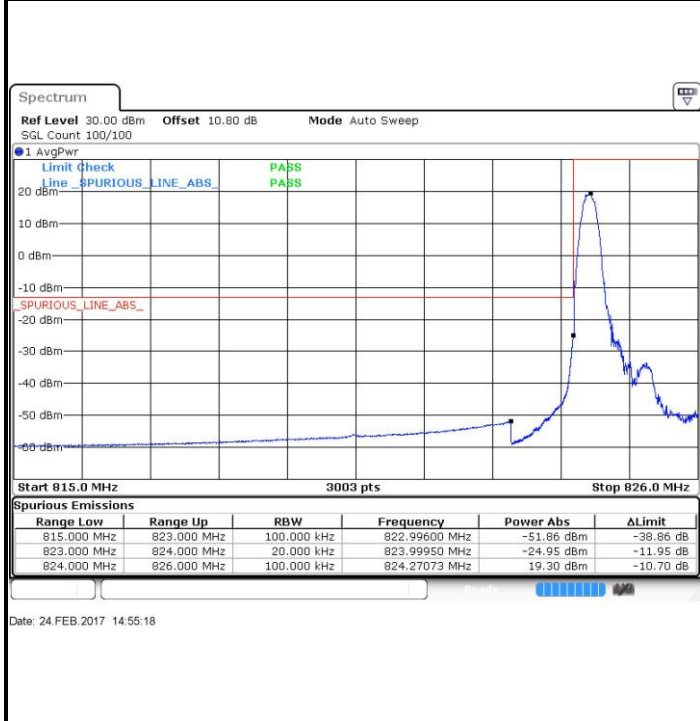


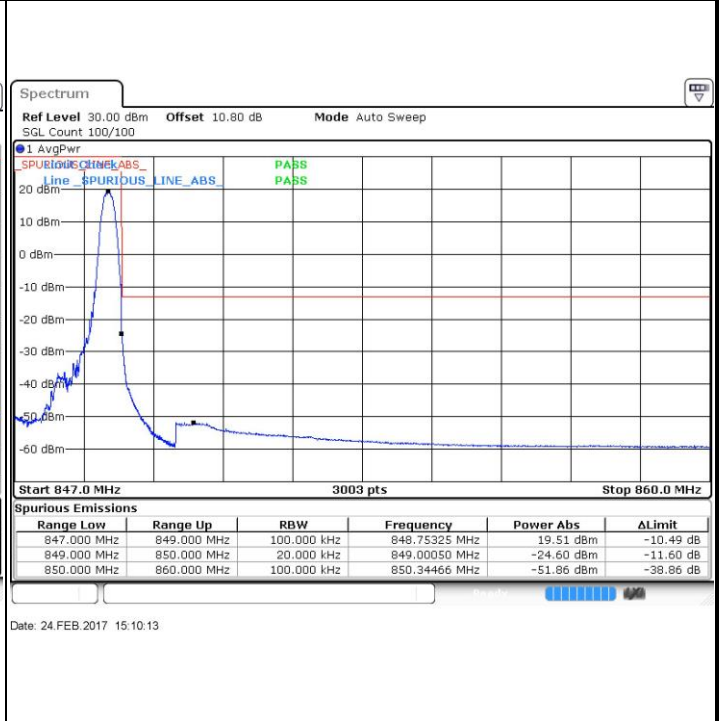


LTE Band 5 / 1.4MHz / 16QAM

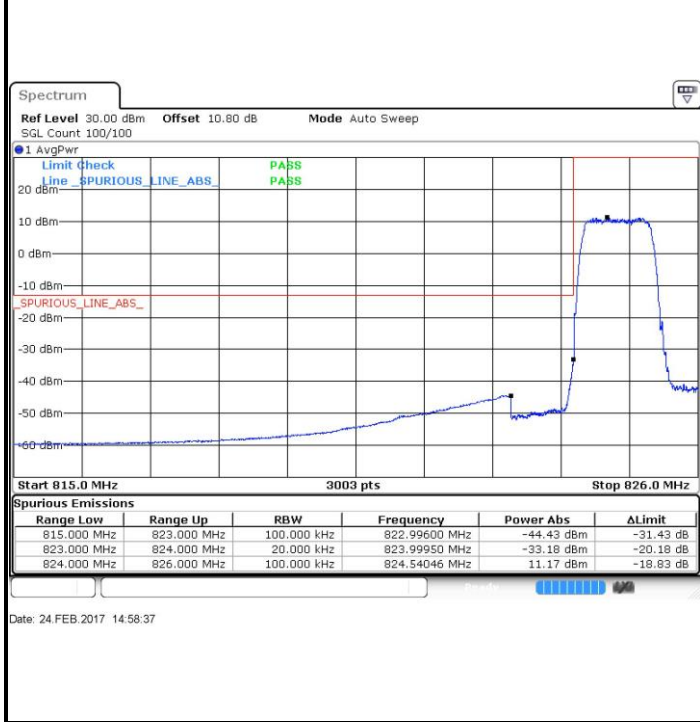
Lowest Band Edge / 1 RB



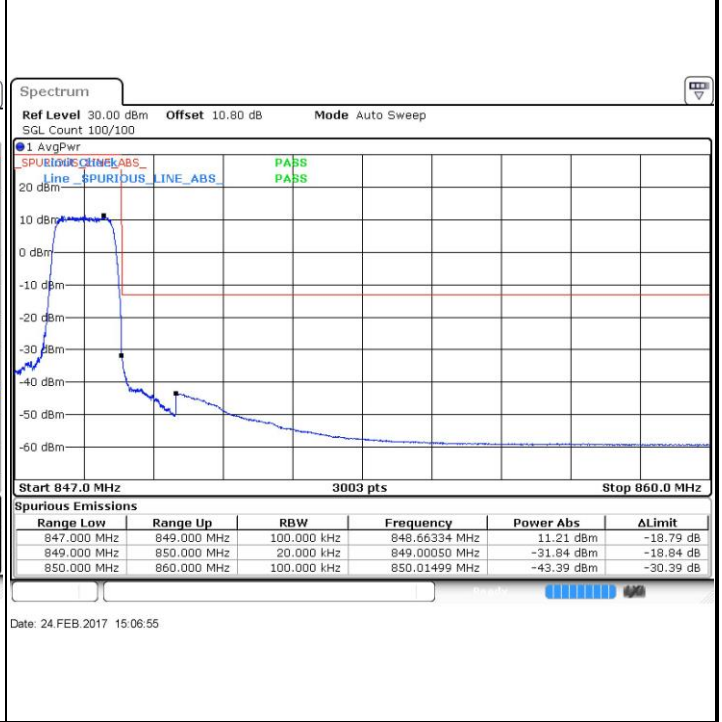
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



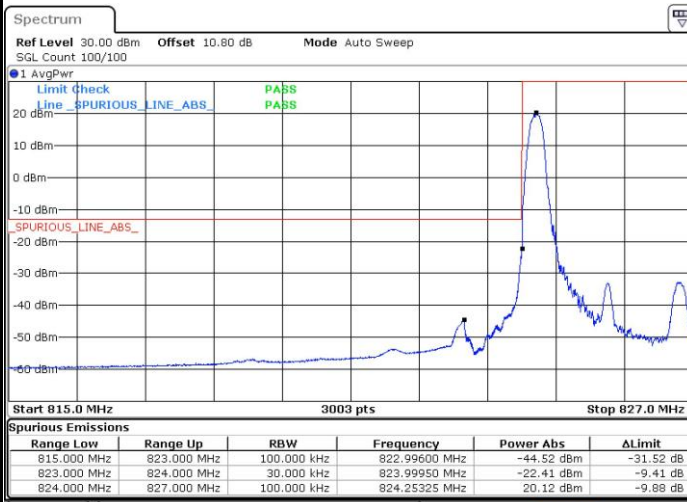
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



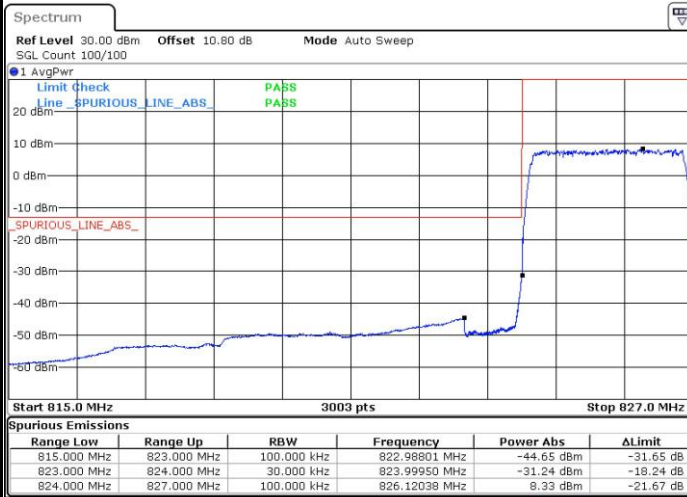
Date: 24.FEB.2017 13:49:11

Highest Band Edge / 1 RB



Date: 24.FEB.2017 14:00:48

Lowest Band Edge / Full RB



Date: 24.FEB.2017 13:52:29

Highest Band Edge / Full RB

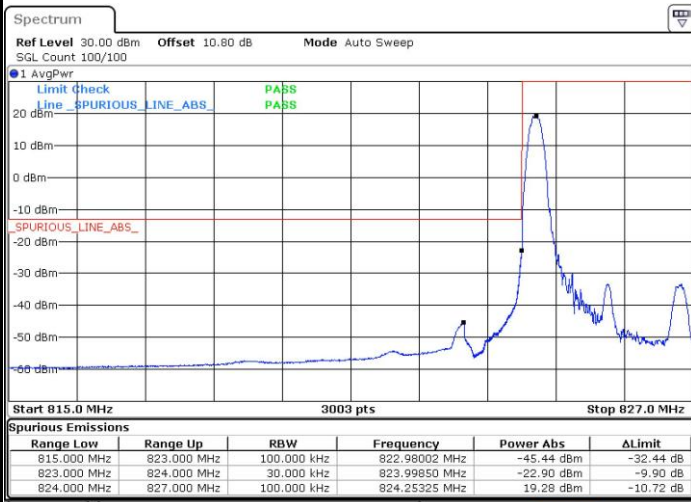


Date: 24.FEB.2017 14:04:07



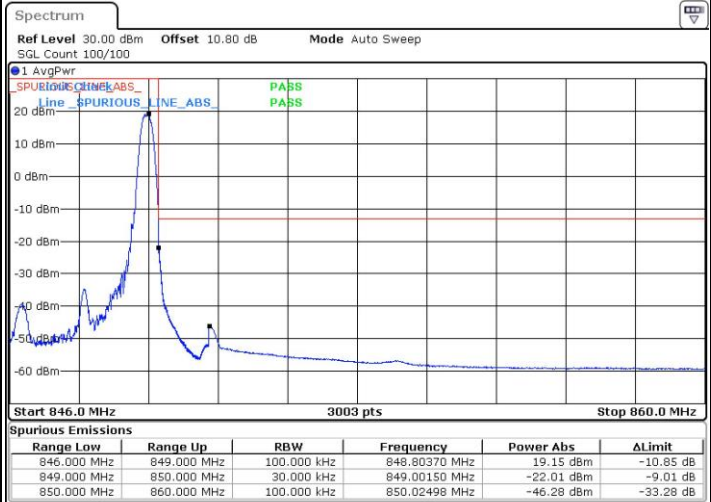
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



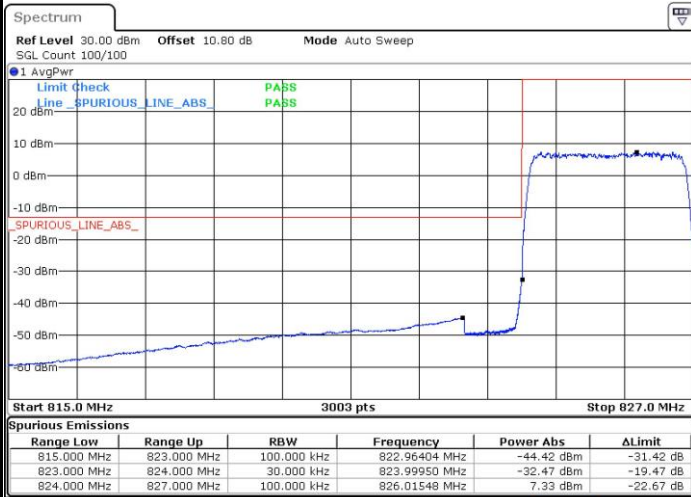
Date: 24.FEB.2017 13:50:50

Highest Band Edge / 1 RB



Date: 24.FEB.2017 14:02:27

Lowest Band Edge / Full RB



Date: 24.FEB.2017 13:54:08

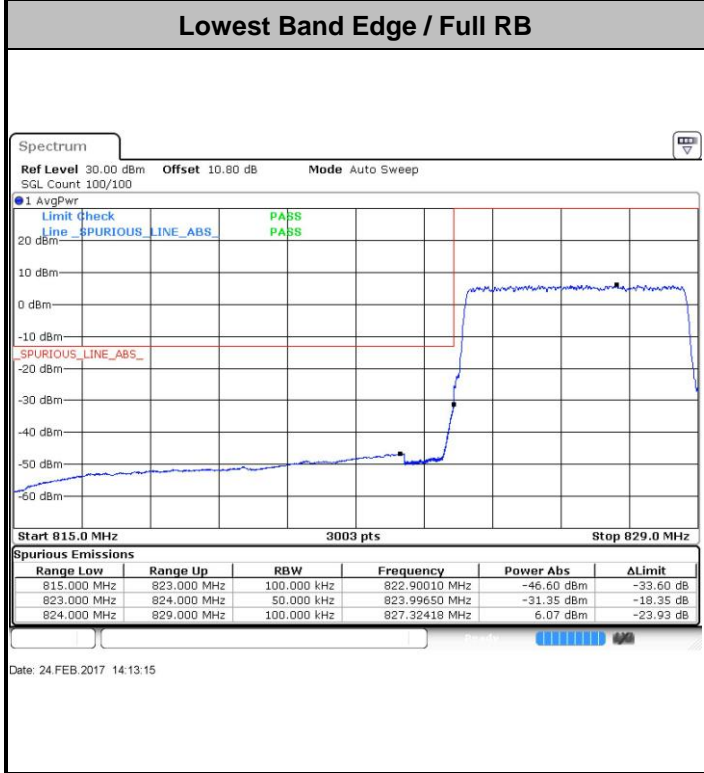
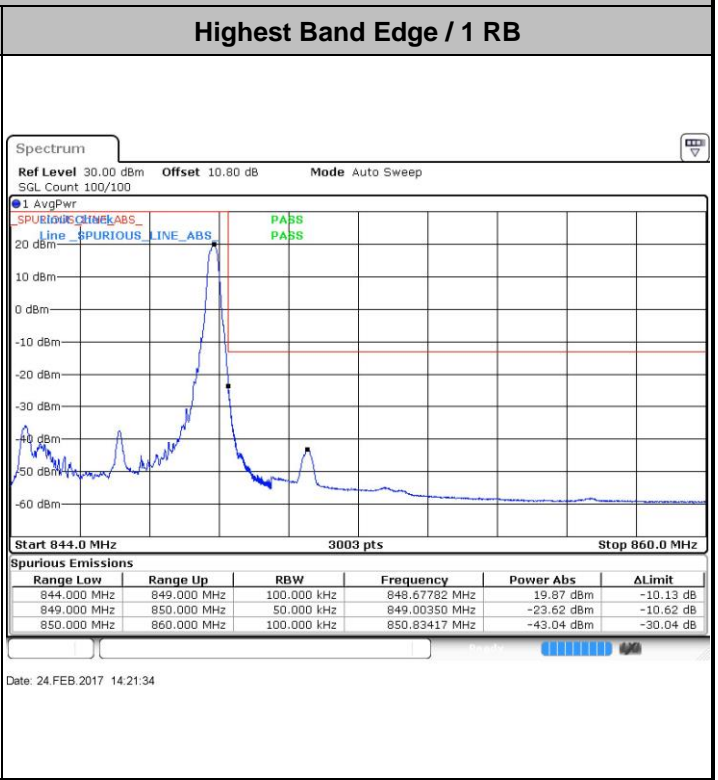
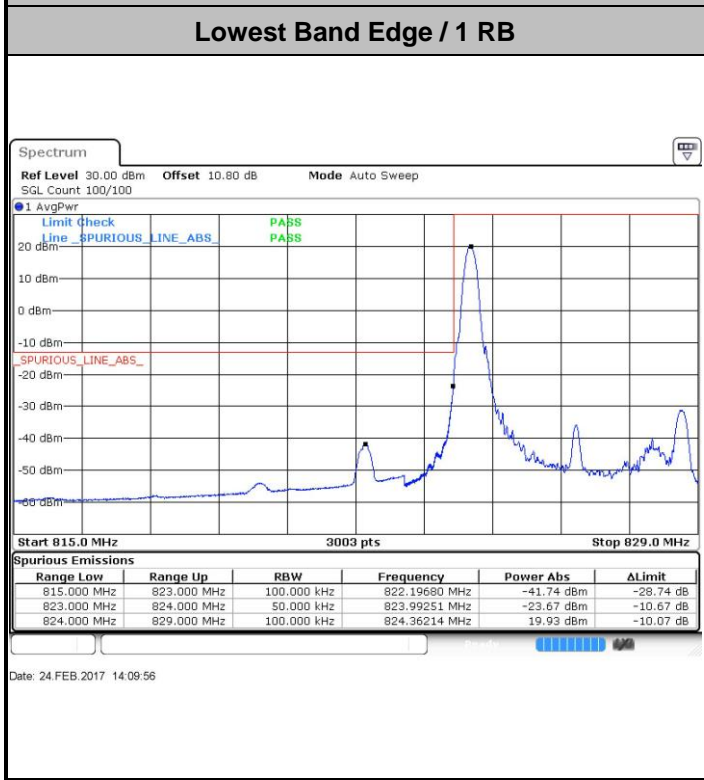
Highest Band Edge / Full RB



Date: 24.FEB.2017 14:05:46



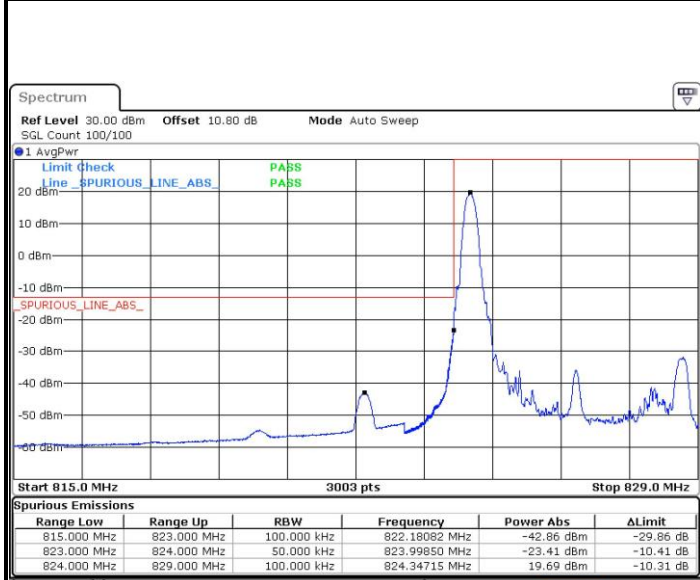
LTE Band 5 / 5MHz / QPSK





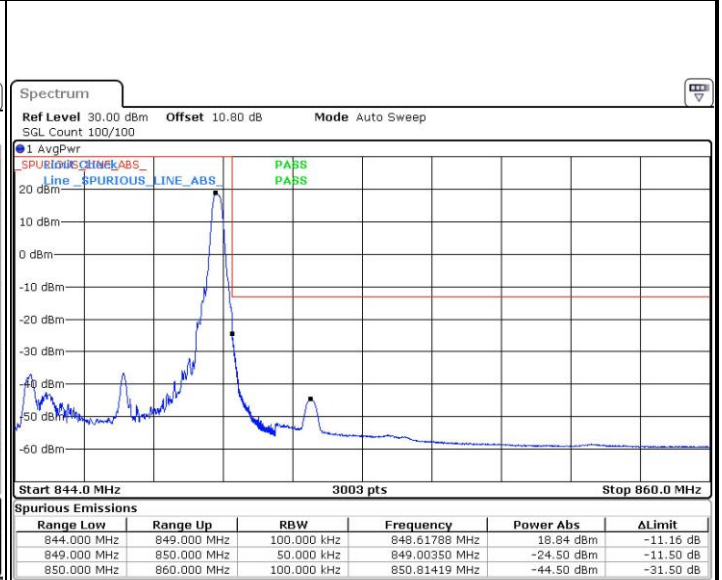
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



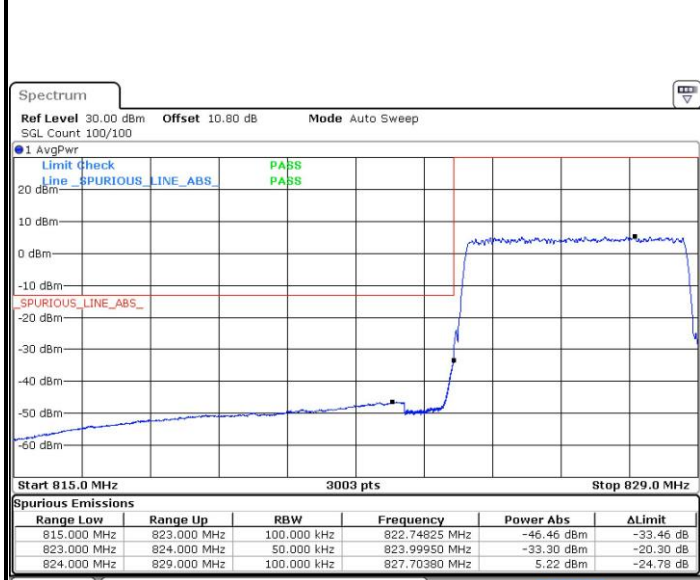
Date: 24.FEB.2017 14:11:35

Highest Band Edge / 1 RB



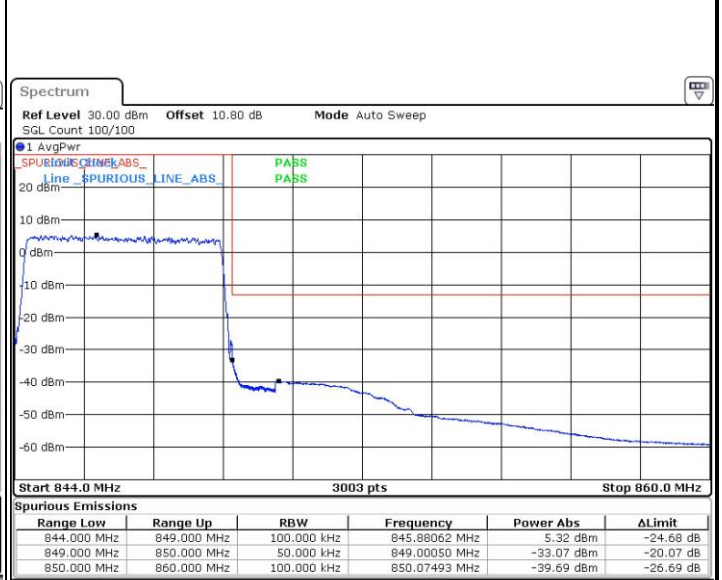
Date: 24.FEB.2017 14:23:13

Lowest Band Edge / Full RB



Date: 24.FEB.2017 14:14:54

Highest Band Edge / Full RB



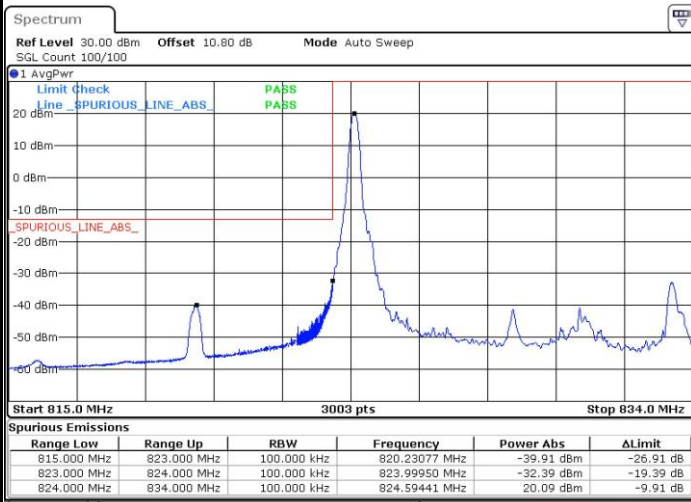
Date: 24.FEB.2017 14:26:32



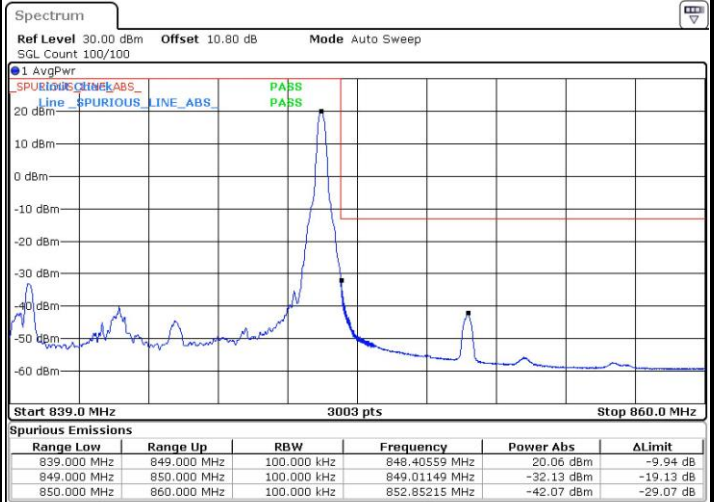
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



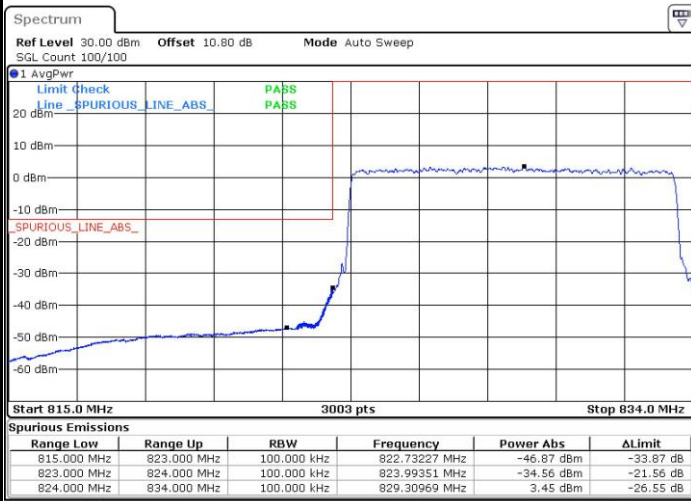
Date: 24.FEB.2017 14:30:42



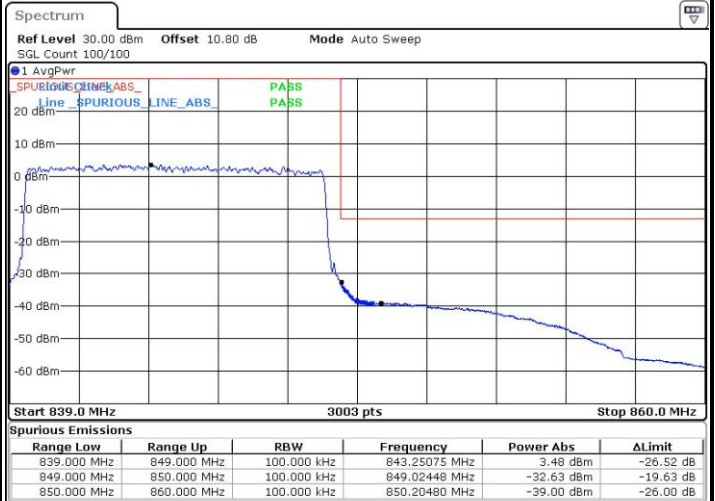
Date: 24.FEB.2017 14:42:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.FEB.2017 14:34:01

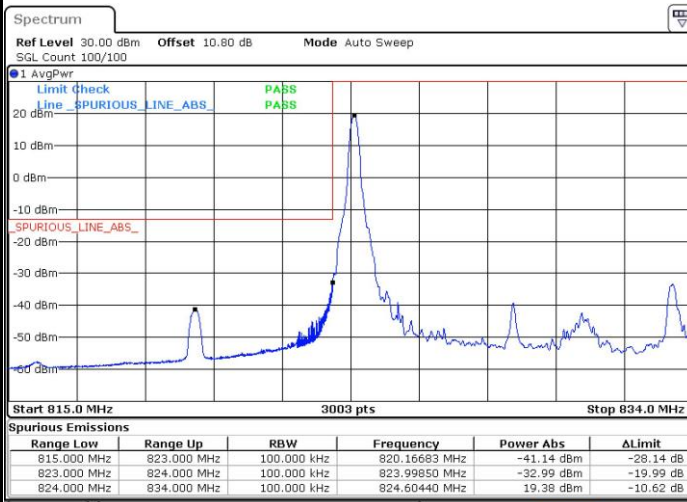


Date: 24.FEB.2017 14:45:38



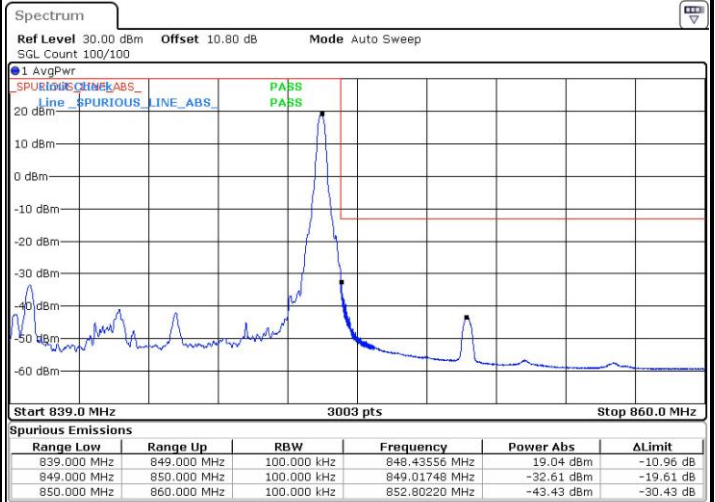
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



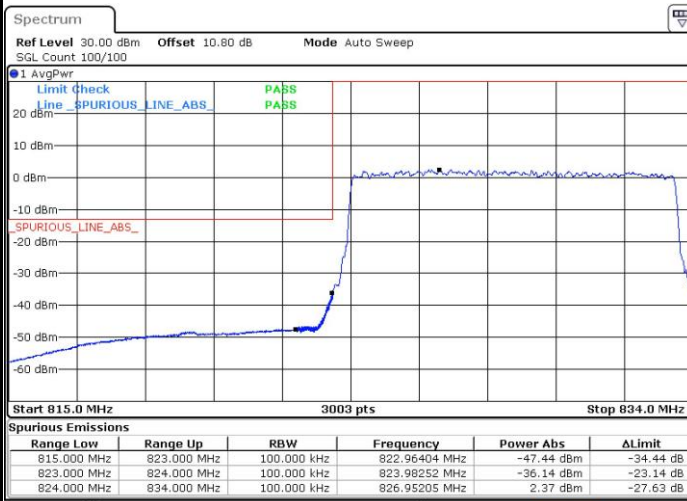
Date: 24.FEB.2017 14:32:22

Highest Band Edge / 1 RB



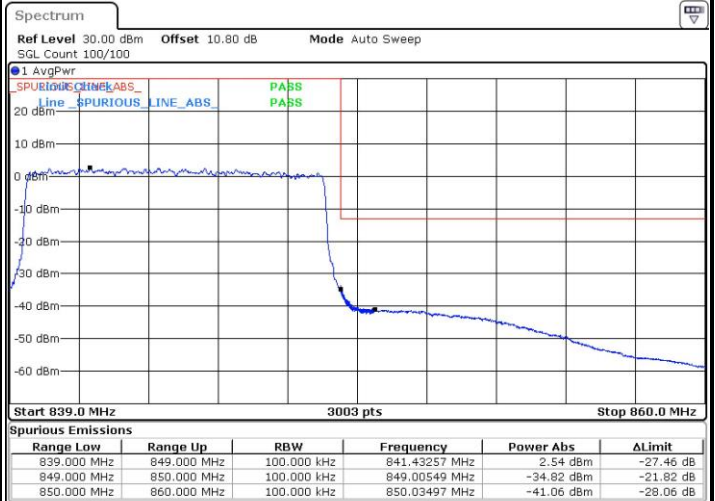
Date: 24.FEB.2017 14:43:59

Lowest Band Edge / Full RB



Date: 24.FEB.2017 14:35:40

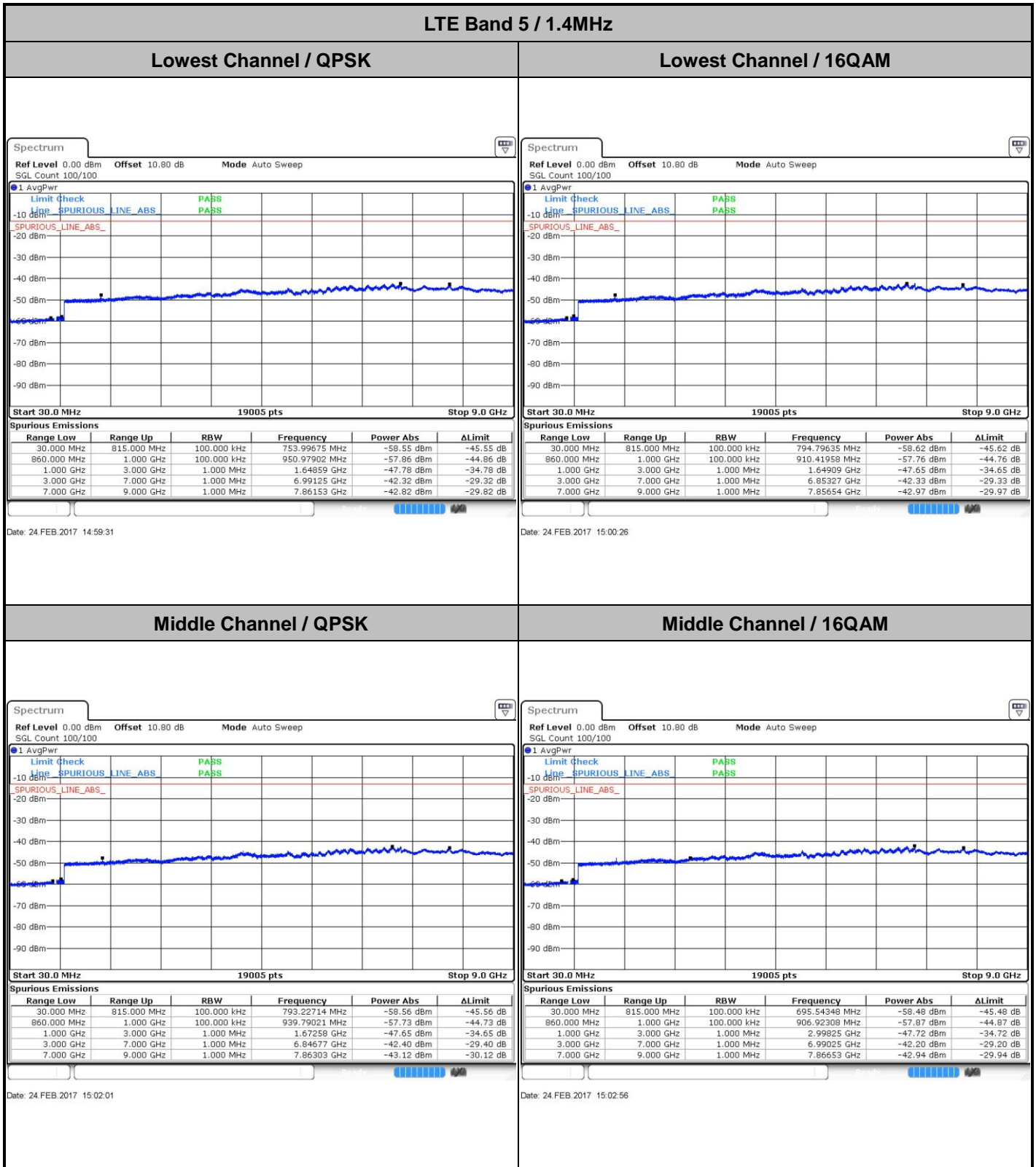
Highest Band Edge / Full RB



Date: 24.FEB.2017 14:47:18



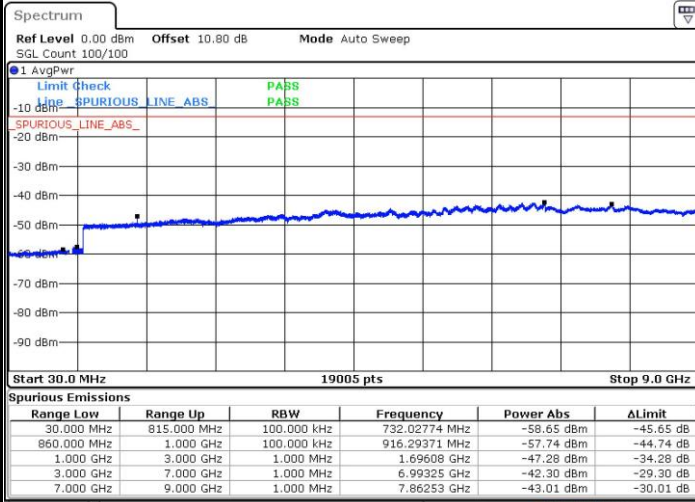
Conducted Spurious Emission





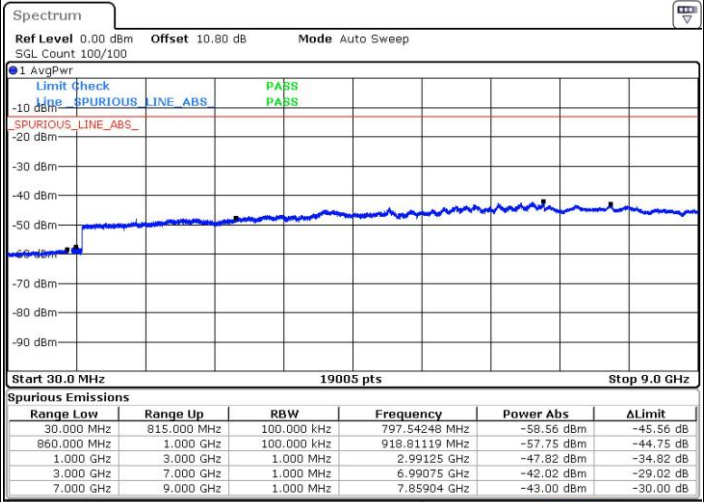
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 24 FEB 2017 15:11:08

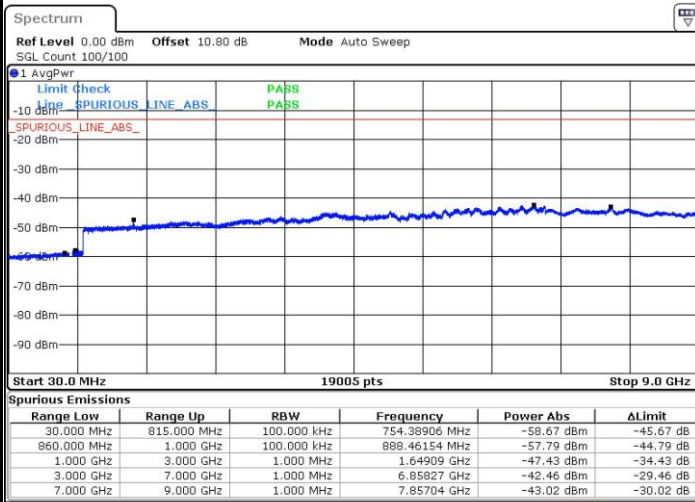
Highest Channel / 16QAM



Date: 24 FEB 2017 15:12:03

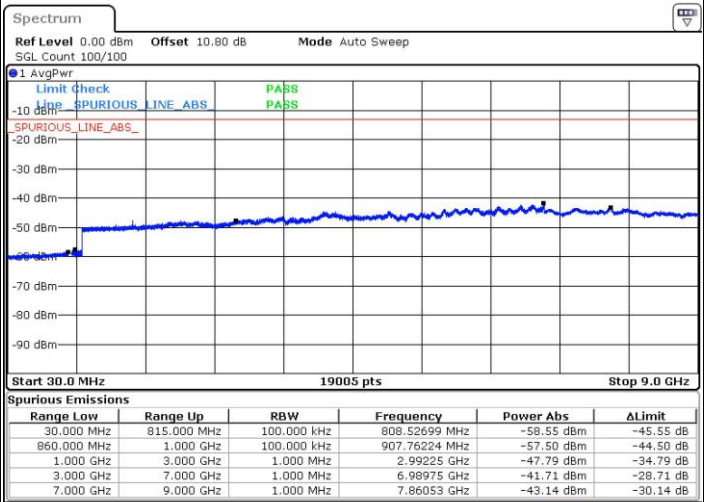
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 24 FEB 2017 13:55:03

Lowest Channel / 16QAM



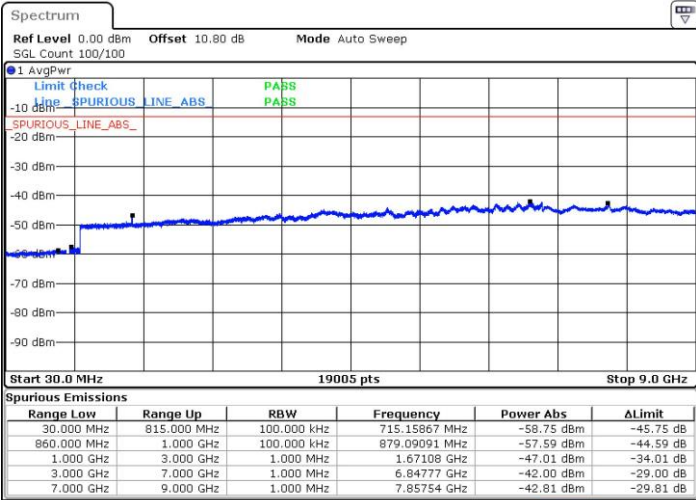
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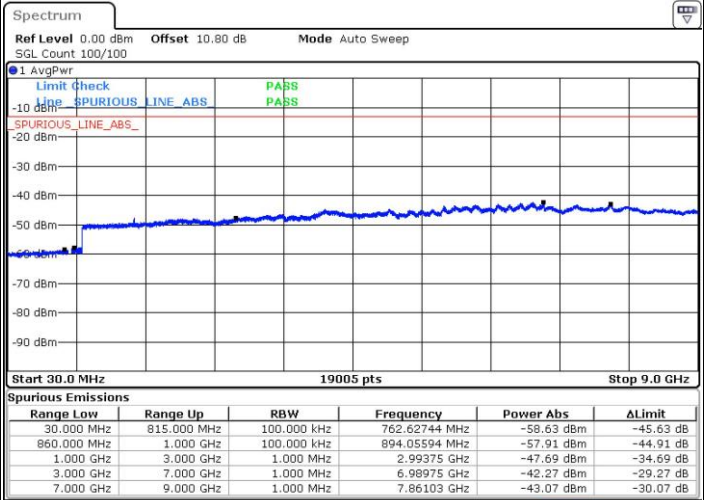
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



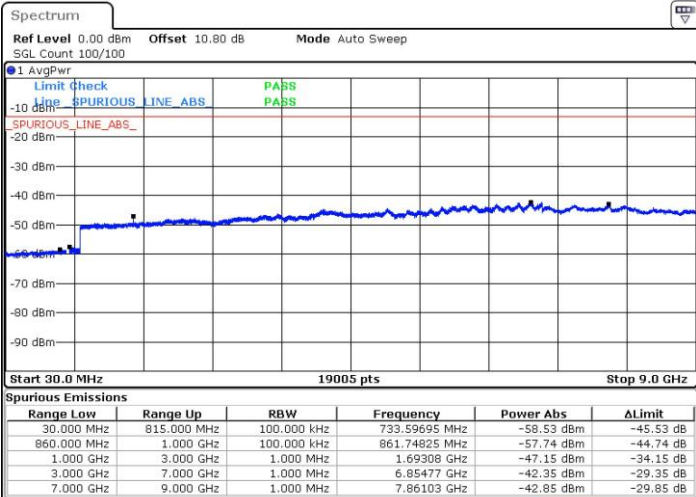
Date: 24 FEB 2017 13:57:33



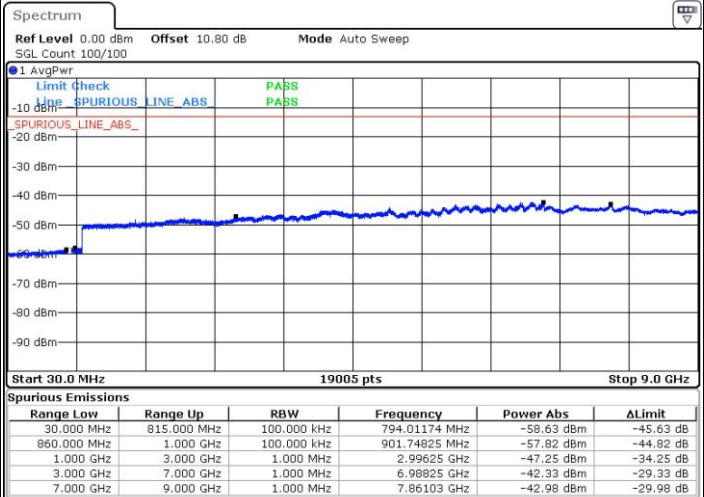
Date: 24 FEB 2017 13:58:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 FEB 2017 14:06:41



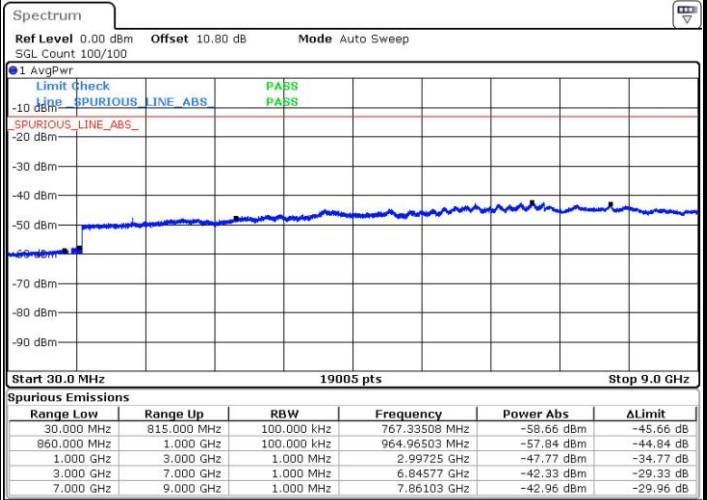
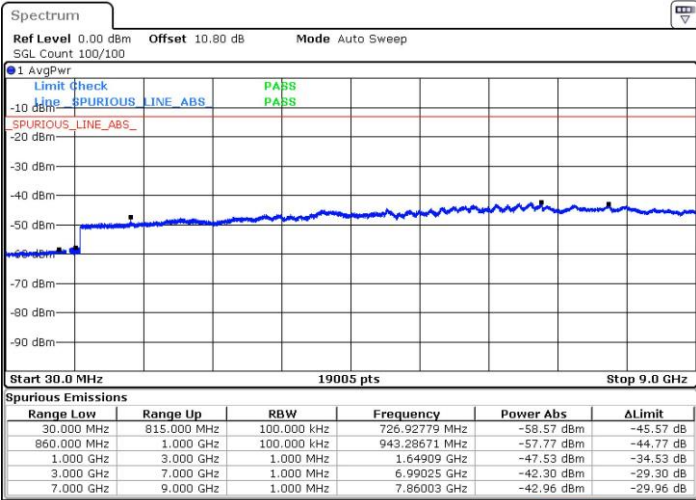
Date: 24 FEB 2017 14:07:36



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

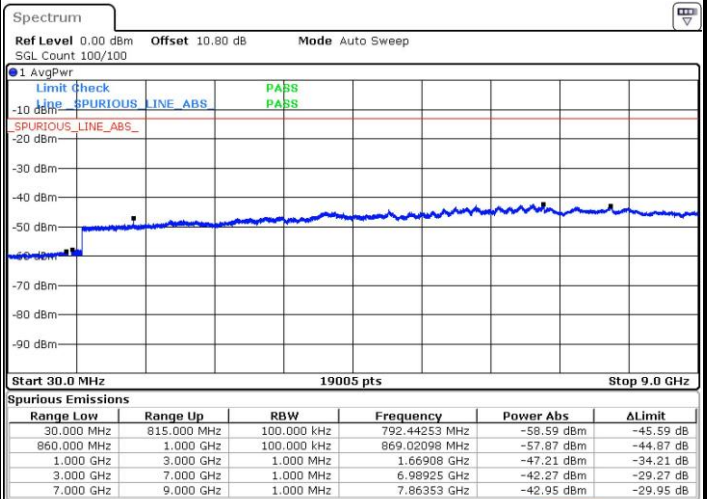
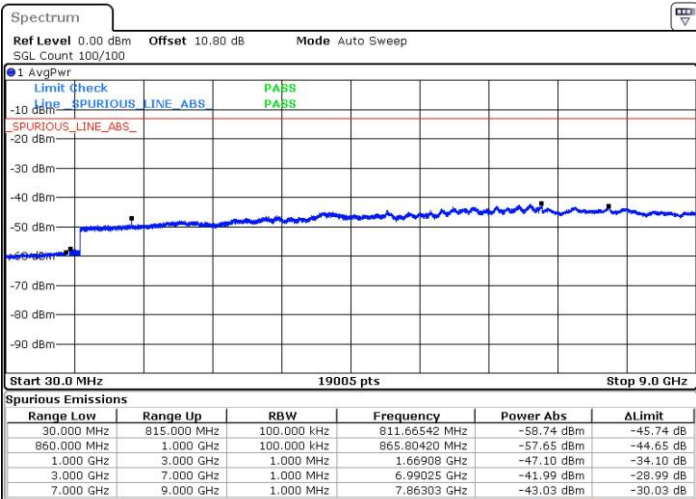


Date: 24 FEB 2017 14:15:49

Date: 24 FEB 2017 14:16:43

Middle Channel / QPSK

Middle Channel / 16QAM



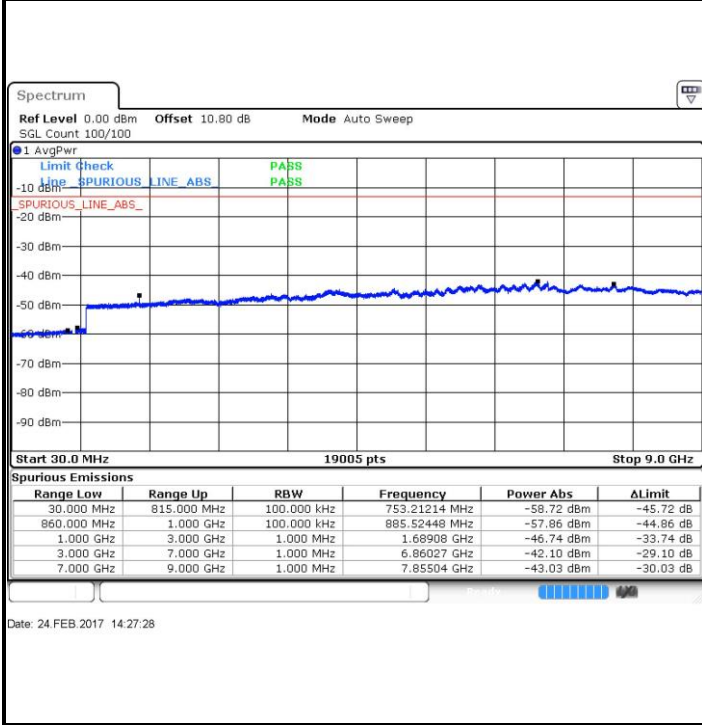
Date: 24 FEB 2017 14:18:20

Date: 24 FEB 2017 14:19:14

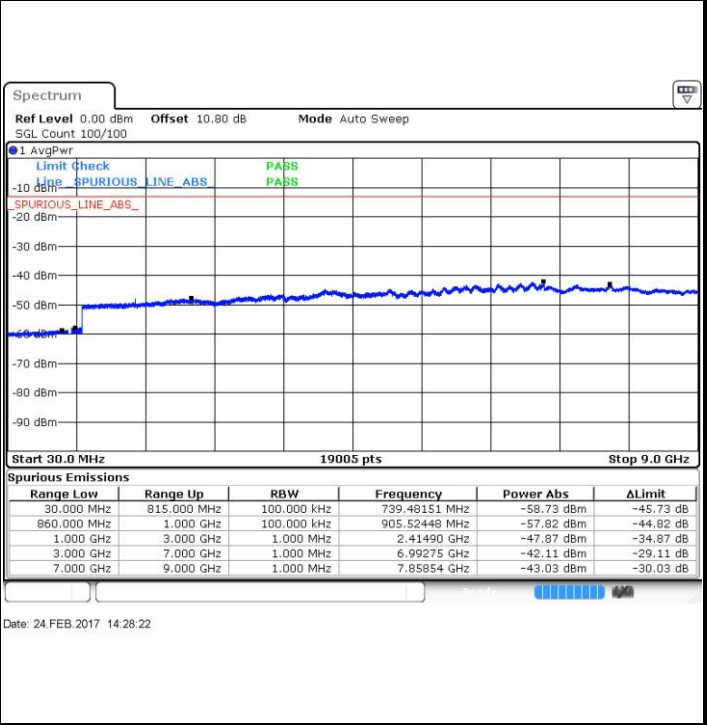


LTE Band 5 / 5MHz

Highest Channel / QPSK

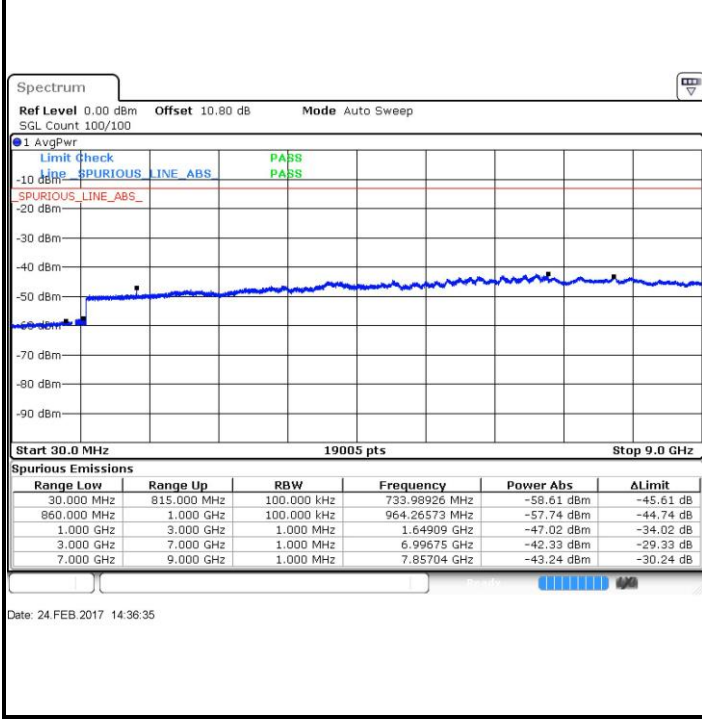


Highest Channel / 16QAM

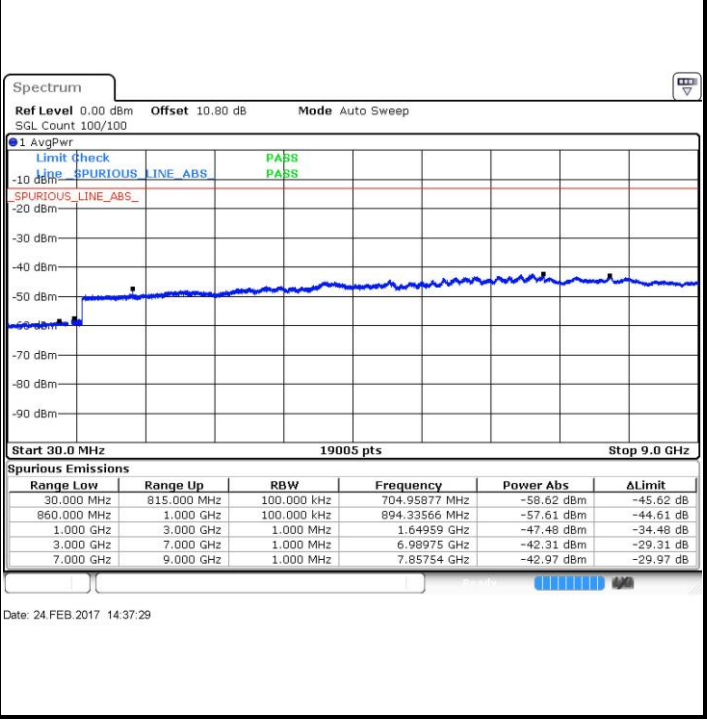


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

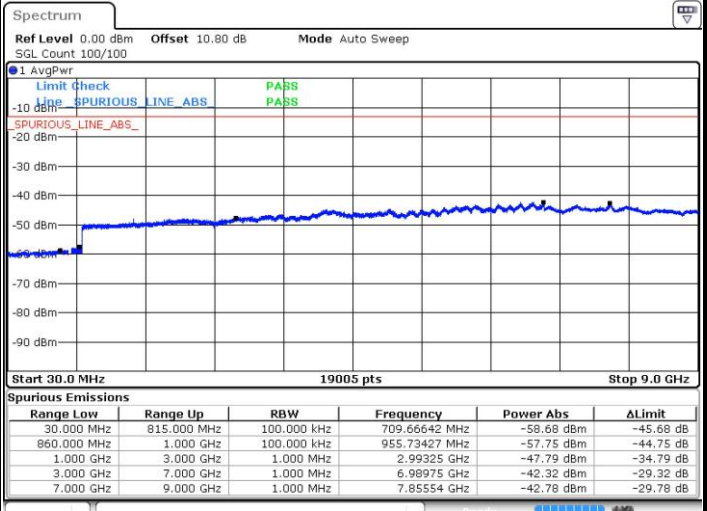
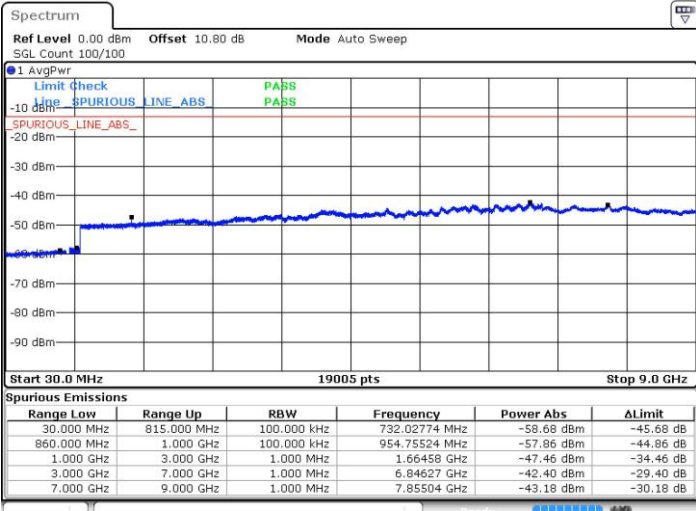




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

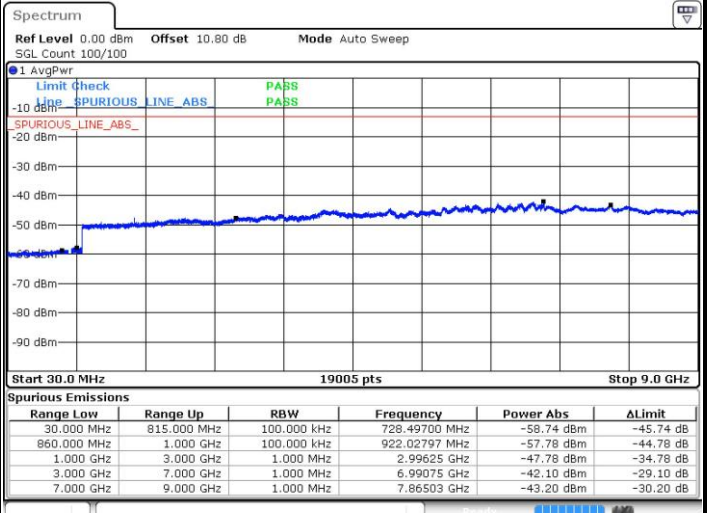
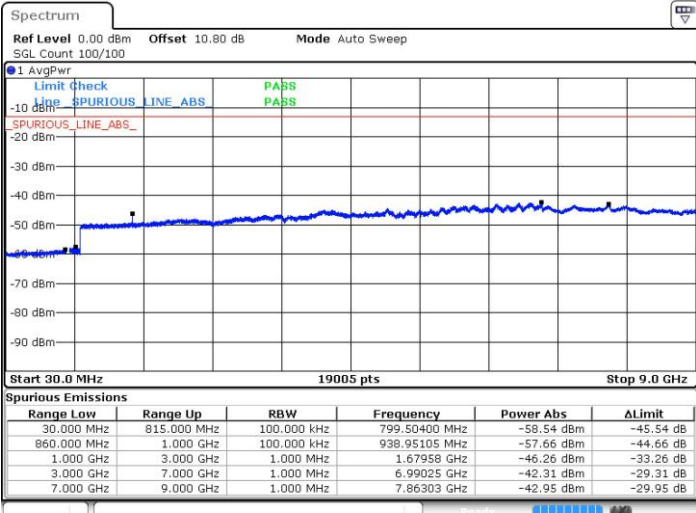


Date: 24 FEB 2017 14:39:06

Date: 24 FEB 2017 14:40:00

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 FEB 2017 14:48:13

Date: 24 FEB 2017 14:49:07



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 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)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	3	22.31	0.1702	21.82	0.1521
Middle		1	3	22.75	0.1884	22.02	0.1592
Highest		1	3	23.31	0.2143	22.44	0.1754
Lowest	16QAM	1	3	20.60	0.1148	20.28	0.1067
Middle		1	3	21.12	0.1294	20.80	0.1202
Highest		1	3	21.53	0.1422	20.72	0.1180
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	22.43	0.1750	21.95	0.1567
Middle		1	8	22.88	0.1941	22.38	0.1730
Highest		1	8	23.39	0.2183	22.49	0.1774
Lowest	16QAM	1	0	20.75	0.1189	20.29	0.1069
Middle		1	0	20.92	0.1236	20.62	0.1153
Highest		1	0	21.63	0.1455	20.74	0.1186
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.46	0.1762	22.05	0.1603
Middle		1	24	22.85	0.1928	22.24	0.1675
Highest		1	24	23.55	0.2265	22.37	0.1726
Lowest	16QAM	1	0	20.78	0.1197	20.29	0.1069
Middle		1	0	21.19	0.1315	20.93	0.1239
Highest		1	0	21.76	0.1500	20.84	0.1213
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	22.98	0.1986	22.31	0.1702
Middle		1	49	23.38	0.2178	22.41	0.1742
Highest		1	49	24.17	0.2612	22.56	0.1803
Lowest	16QAM	1	0	20.77	0.1194	20.42	0.1102
Middle		1	0	21.27	0.1340	20.72	0.1180
Highest		1	0	21.53	0.1422	20.78	0.1197
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.00	0.1995	22.26	0.1683
Middle		1	74	23.27	0.2123	22.36	0.1722
Highest		1	74	23.61	0.2296	22.46	0.1762
Lowest	16QAM	1	0	21.13	0.1297	20.55	0.1135
Middle		1	0	21.10	0.1288	20.90	0.1230
Highest		1	0	21.30	0.1349	20.63	0.1156
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.81	0.1910	22.05	0.1603
Middle		1	0	22.86	0.1932	22.37	0.1726
Highest		1	0	22.91	0.1954	22.30	0.1698
Lowest	16QAM	1	0	21.15	0.1303	20.55	0.1135
Middle		1	0	21.20	0.1318	20.45	0.1109
Highest		1	0	21.21	0.1321	20.50	0.1122
Limit	EIRP < 2W			Result		PASS	

LTE Band 4 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.05	0.2018	23.19	0.2084
Lowest	16QAM	1	49	22.14	0.1637	21.32	0.1355
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	18.74	0.0748	20.17	0.1040
Middle		3	0	18.44	0.0698	19.85	0.0966
Highest		3	0	18.29	0.0675	19.57	0.0906
Lowest	16QAM	1	0	16.23	0.0420	17.21	0.0526
Middle		1	0	15.76	0.0377	17.44	0.0555
Highest		1	0	15.92	0.0391	17.03	0.0505
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	18.78	0.0755	20.11	0.1026
Middle		1	0	18.40	0.0692	19.79	0.0953
Highest		1	0	18.27	0.0671	19.61	0.0914
Lowest	16QAM	1	0	16.24	0.0421	17.67	0.0585
Middle		1	0	15.92	0.0391	17.39	0.0548
Highest		1	0	15.78	0.0378	16.99	0.0500
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	18.72	0.0745	20.08	0.1019
Middle		1	0	18.45	0.0700	19.83	0.0962
Highest		1	0	18.40	0.0692	19.68	0.0929
Lowest	16QAM	1	0	16.28	0.0425	17.61	0.0577
Middle		1	0	15.82	0.0382	17.34	0.0542
Highest		1	0	15.79	0.0379	17.06	0.0508
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	19.26	0.0843	20.04	0.1009
Middle		1	49	19.25	0.0841	20.14	0.1033
Highest		1	49	18.95	0.0785	19.90	0.0977
Lowest	16QAM	1	49	16.81	0.0480	17.55	0.0569
Middle		1	49	16.67	0.0465	17.56	0.0570
Highest		1	49	16.39	0.0436	17.13	0.0516
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Middle	QPSK	1	49	21.15	0.1303	21.98	0.1578
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Highest	16QAM	1	99	19.71	0.0935	20.80	0.1202
Limit	EIRP < 2W			Result		PASS	

LTE Band 12 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Highest	16QAM	1	14	12.74	0.0188	16.84	0.0483
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	15.07	0.0321	19.03	0.0800
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Middle	QPSK	1	25	15.23	0.0333	19.54	0.0899
Highest	16QAM	1	25	13.07	0.0203	16.84	0.0483
Limit	ERP < 3W			Result		PASS	

LTE Band 66 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Highest	QPSK	1	49	23.82	0.2410	22.64	0.1837
Highest	16QAM	1	49	23.08	0.2032	21.97	0.1574
Limit	EIRP < 1W			Result		PASS	



Radiated Spurious Emission

LTE Band 2

LTE Band 2 / 1.4MHz / 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	-66.24	-13	-53.24	-61.85	-72.81	1.67	8.24	H
	5552	-62.81	-13	-49.81	-65.31	-69.88	2.65	9.72	H
	7401	-64.11	-13	-51.11	-68.12	-73.25	2.46	11.60	H
	11100	-52.51	-13	-39.51	-63.57	-62.28	2.69	12.46	H
									H
									H
	3702	-65.49	-13	-52.49	-61.16	-72.06	1.67	8.24	V
	5552	-62.95	-13	-49.95	-65.51	-70.02	2.65	9.72	V
	7401	-63.91	-13	-50.91	-68.17	-73.05	2.46	11.60	V
	11100	-48.96	-13	-35.96	-59.88	-58.73	2.69	12.46	V
								V	
								V	
Middle	3762	-64.81	-13	-51.81	-60.41	-71.44	1.69	8.31	H
	5636	-62.97	-13	-49.97	-65.86	-70.02	2.70	9.75	H
	7520	-64.38	-13	-51.38	-68.49	-73.77	2.42	11.81	H
	11278	-50.01	-13	-37.01	-61.81	-59.71	2.68	12.39	H
									H
									H
	3762	-65.02	-13	-52.02	-60.72	-71.65	1.69	8.31	V
	5636	-63.09	-13	-50.09	-66.08	-70.14	2.70	9.75	V
	7520	-64.43	-13	-51.43	-68.72	-73.82	2.42	11.81	V
	11278	-47.52	-13	-34.52	-59.15	-57.22	2.68	12.39	V
								V	
								V	
Highest	3816	-62.43	-13	-49.43	-58.01	-69.11	1.70	8.38	H
	5724	-61.47	-13	-48.47	-64.78	-68.51	2.75	9.79	H
	7638	-63.71	-13	-50.71	-68.26	-73.21	2.38	11.88	H
	11457	-54.66	-13	-41.66	-67.02	-64.29	2.68	12.32	H
									H
									H
	3816	-62.91	-13	-49.91	-58.41	-69.59	1.70	8.38	V
	5724	-62.67	-13	-49.67	-65.89	-69.71	2.75	9.79	V
	7638	-63.55	-13	-50.55	-68.29	-73.05	2.38	11.88	V
	11457	-51.46	-13	-38.46	-63.77	-61.09	2.68	12.32	V
								V	
								V	

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



LTE Band 2 / 3MHz / 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	-66.14	-13	-53.14	-61.89	-72.71	1.67	8.24	H
	5554	-63.04	-13	-50.04	-65.55	-70.11	2.66	9.72	H
	7406	-64.06	-13	-51.06	-68.13	-73.21	2.46	11.61	H
	11100	-52.01	-13	-39.01	-63.05	-61.78	2.69	12.46	H
									H
									H
	3702	-66.12	-13	-53.12	-61.68	-72.69	1.67	8.24	V
	5554	-65.35	-13	-52.35	-65.77	-72.42	2.66	9.72	V
	7406	-64.11	-13	-51.11	-68.31	-73.26	2.46	11.61	V
	11100	-49.25	-13	-36.25	-60.02	-59.02	2.69	12.46	V
								V	
								V	
Middle	3756	-64.66	-13	-51.66	-60.31	-71.28	1.68	8.31	H
	5634	-61.72	-13	-48.72	-64.65	-68.77	2.70	9.75	H
	7520	-64.63	-13	-51.63	-68.7	-74.02	2.42	11.81	H
	11268	-51.73	-13	-38.73	-63.33	-61.44	2.68	12.39	H
									H
									H
	3756	-64.43	-13	-51.43	-60.14	-71.05	1.68	8.31	V
	5634	-62.17	-13	-49.17	-65.08	-69.22	2.70	9.75	V
	7520	-63.66	-13	-50.66	-68.05	-73.05	2.42	11.81	V
	11268	-47.98	-13	-34.98	-59.54	-57.69	2.68	12.39	V
								V	
								V	
Highest	3816	-62.01	-13	-49.01	-57.6	-68.69	1.70	8.38	H
	5724	-60.98	-13	-47.98	-64.32	-68.02	2.75	9.79	H
	7634	-43.84	-13	-30.84	-68.37	-53.33	2.39	11.88	H
	11446	-54.95	-13	-41.95	-67.18	-64.59	2.68	12.32	H
									H
									H
	3816	-60.13	-13	-47.13	-55.73	-66.81	1.70	8.38	V
	5724	-62.18	-13	-49.18	-65.69	-69.22	2.75	9.79	V
	7634	-63.32	-13	-50.32	-68.14	-72.81	2.39	11.88	V
	11446	-52.24	-13	-39.24	-64.36	-61.88	2.68	12.32	V
								V	
								V	

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



LTE Band 2 / 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	3708	-65.77	-13	-52.77	-61.56	-72.35	1.67	8.25	H
	5557	-63.16	-13	-50.16	-65.74	-70.22	2.66	9.72	H
	7410	-64.23	-13	-51.23	-68.23	-73.39	2.46	11.62	H
	11100	-53.25	-13	-40.25	-64.21	-63.02	2.69	12.46	H
									H
									H
	3708	-65.68	-13	-52.68	-61.41	-72.26	1.67	8.25	V
	5557	-63.49	-13	-50.49	-65.89	-70.55	2.66	9.72	V
	7410	-63.92	-13	-50.92	-68.19	-73.08	2.46	11.62	V
	11100	-50.75	-13	-37.75	-61.62	-60.52	2.69	12.46	V
								V	
								V	
Middle	3762	-65.38	-13	-52.38	-61.01	-72.01	1.69	8.31	H
	5636	-62.16	-13	-49.16	-65.17	-69.21	2.70	9.75	H
	7520	-64.27	-13	-51.27	-68.41	-73.66	2.42	11.81	H
	11268	-49.65	-13	-36.65	-61.21	-59.36	2.68	12.39	H
									H
									H
	3762	-65.38	-13	-52.38	-61.02	-72.01	1.69	8.31	V
	5636	-63.01	-13	-50.01	-65.76	-70.06	2.70	9.75	V
	7520	-63.48	-13	-50.48	-68.76	-72.87	2.42	11.81	V
	11268	-47.11	-13	-34.11	-58.59	-56.82	2.68	12.39	V
								V	
								V	
Highest	3810	-63.21	-13	-50.21	-58.75	-69.88	1.70	8.37	H
	5722	-62.72	-13	-49.72	-66.01	-69.76	2.75	9.79	H
	7630	-63.42	-13	-50.42	-67.84	-72.91	2.39	11.88	H
	11436	-52.61	-13	-39.61	-64.87	-62.25	2.68	12.33	H
									H
									H
	3810	-62.14	-13	-49.14	-57.82	-68.81	1.70	8.37	V
	5722	-62.77	-13	-49.77	-66.14	-69.81	2.75	9.79	V
	7630	-63.27	-13	-50.27	-68	-72.76	2.39	11.88	V
	11436	-49.61	-13	-36.61	-61.81	-59.25	2.68	12.33	V
								V	
								V	

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



LTE Band 2 / 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	3708	-66.01	-13	-53.01	-61.81	-72.59	1.67	8.25	H
	5565	-63.09	-13	-50.09	-65.74	-70.15	2.66	9.73	H
	7420	-64.04	-13	-51.04	-68.12	-73.22	2.46	11.64	H
	11100	-53.34	-13	-40.34	-64.38	-63.11	2.69	12.46	H
									H
									H
	3708	-65.64	-13	-52.64	-61.39	-72.22	1.67	8.25	V
	5565	-62.96	-13	-49.96	-65.51	-70.02	2.66	9.73	V
	7420	-63.70	-13	-50.70	-68	-72.88	2.46	11.64	V
	11100	-50.11	-13	-37.11	-60.74	-59.88	2.69	12.46	V
									V
									V
Middle	3762	-65.48	-13	-52.48	-61.15	-72.11	1.69	8.31	H
	5636	-63.52	-13	-50.52	-66.43	-70.57	2.70	9.75	H
	7520	-63.73	-13	-50.73	-67.91	-73.12	2.42	11.81	H
	11257	-49.31	-13	-36.31	-60.77	-59.02	2.69	12.40	H
									H
									H
	3762	-65.55	-13	-52.55	-61.19	-72.18	1.69	8.31	V
	5636	-63.36	-13	-50.36	-66.32	-70.41	2.70	9.75	V
	7520	-63.96	-13	-50.96	-68.34	-73.35	2.42	11.81	V
	11257	-46.31	-13	-33.31	-57.79	-56.02	2.69	12.40	V
									V
									V
Highest	3804	-62.66	-13	-49.66	-58.24	-69.33	1.70	8.36	H
	5715	-62.73	-13	-49.73	-65.88	-69.77	2.75	9.79	H
	7620	-64.18	-13	-51.18	-68.46	-73.66	2.39	11.87	H
	11404	-52.86	-13	-39.86	-65.02	-62.51	2.68	12.34	H
									H
									H
	3804	-62.02	-13	-49.02	-57.66	-68.69	1.70	8.36	V
	5715	-63.01	-13	-50.01	-66.19	-70.05	2.75	9.79	V
	7620	-63.63	-13	-50.63	-68.06	-73.11	2.39	11.87	V
	11404	-49.51	-13	-36.51	-61.66	-59.16	2.68	12.34	V
									V
									V

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



LTE Band 2 / 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	3714	-65.85	-13	-52.85	-61.55	-72.44	1.67	8.26	H
	5572	-63.06	-13	-50.06	-65.77	-70.12	2.67	9.73	H
	7430	-64.21	-13	-51.21	-68.12	-73.42	2.45	11.66	H
	11110	-52.25	-13	-39.25	-63.39	-62.02	2.69	12.46	H
									H
									H
	3714	-65.85	-13	-52.85	-61.61	-72.44	1.67	8.26	V
	5572	-63.46	-13	-50.46	-65.97	-70.52	2.67	9.73	V
	7430	-63.85	-13	-50.85	-68.06	-73.06	2.45	11.66	V
	11110	-47.92	-13	-34.92	-59.95	-57.69	2.69	12.46	V
								V	
								V	
Middle	3762	-65.48	-13	-52.48	-61.11	-72.11	1.69	8.31	H
	5636	-63.17	-13	-50.17	-66.2	-70.22	2.70	9.75	H
	7520	-64.22	-13	-51.22	-68.4	-73.61	2.42	11.81	H
	11236	-50.31	-13	-37.31	-61.67	-60.03	2.69	12.41	H
									H
									H
	3762	-65.39	-13	-52.39	-61.07	-72.02	1.69	8.31	V
	5636	-62.72	-13	-49.72	-65.68	-69.77	2.70	9.75	V
	7520	-64.05	-13	-51.05	-68.49	-73.44	2.42	11.81	V
	11236	-47.34	-13	-34.34	-58.66	-57.06	2.69	12.41	V
								V	
								V	
Highest	3792	-61.16	-13	-48.16	-56.52	-67.81	1.70	8.35	H
	5688	-61.53	-13	-48.53	-64.75	-68.57	2.73	9.78	H
	7610	-63.94	-13	-50.94	-68.45	-73.41	2.39	11.87	H
	11373	-54.35	-13	-41.35	-66.41	-64.02	2.68	12.35	H
									H
									H
	3792	-61.36	-13	-48.36	-57.01	-68.01	1.70	8.35	V
	5688	-62.37	-13	-49.37	-65.59	-69.41	2.73	9.78	V
	7610	-63.75	-13	-50.75	-68.5	-73.22	2.39	11.87	V
	11373	-51.05	-13	-38.05	-63.02	-60.72	2.68	12.35	V
								V	
								V	

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



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	3720	-65.63	-13	-52.63	-61.4	-72.22	1.67	8.26	H
	5580	-63.25	-13	-50.25	-65.86	-70.31	2.67	9.73	H
	7440	-64.32	-13	-51.32	-68.26	-73.55	2.45	11.68	H
	11110	-52.56	-13	-39.56	-63.65	-62.33	2.69	12.46	H
									H
									H
	3720	-65.74	-13	-52.74	-61.51	-72.33	1.67	8.26	V
	5580	-63.36	-13	-50.36	-65.77	-70.42	2.67	9.73	V
	7440	-63.78	-13	-50.78	-67.93	-73.01	2.45	11.68	V
	11110	-49.78	-13	-36.78	-60.72	-59.55	2.69	12.46	V
								V	
								V	
Middle	3762	-65.48	-13	-52.48	-61.02	-72.11	1.69	8.31	H
	5636	-63.28	-13	-50.28	-66.17	-70.33	2.70	9.75	H
	7520	-64.38	-13	-51.38	-68.31	-73.77	2.42	11.81	H
	11226	-51.29	-13	-38.29	-62.66	-61.01	2.69	12.41	H
									H
									H
	3762	-65.48	-13	-52.48	-61.1	-72.11	1.69	8.31	V
	5636	-63.44	-13	-50.44	-66.48	-70.49	2.70	9.75	V
	7520	-64.09	-13	-51.09	-68.49	-73.48	2.42	11.81	V
	11226	-47.43	-13	-34.43	-58.81	-57.15	2.69	12.41	V
								V	
								V	
Highest	3798	-65.55	-13	-52.55	-61.13	-72.21	1.70	8.36	H
	5700	-62.37	-13	-49.37	-65.54	-69.41	2.74	9.78	H
	7600	-63.65	-13	-50.65	-68.04	-73.11	2.40	11.86	H
	11352	-54.34	-13	-41.34	-66.28	-64.02	2.68	12.36	H
									H
									H
	3798	-65.66	-13	-52.66	-61.26	-72.32	1.70	8.36	V
	5700	-62.67	-13	-49.67	-65.74	-69.71	2.74	9.78	V
	7600	-63.76	-13	-50.76	-68.45	-73.22	2.40	11.86	V
	11352	-51.01	-13	-38.01	-62.99	-60.69	2.68	12.36	V
								V	
								V	

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



LTE Band 4

LTE Band 4 / 3MHz / 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)
Highest	3504	-60.95	-13	-47.95	-56.99	-67.35	1.61	8.00	H
	5256	-54.35	-13	-41.35	-55.34	-61.57	2.48	9.70	H
	10512	-52.54	-13	-39.54	-40.35	-62.25	2.69	12.40	H
	3504	-60.95	-13	-47.95	-56.99	-67.35	1.61	8.00	H
									H
									H
	3504	-60.93	-13	-47.93	-56.82	-67.33	1.61	8.00	V
	5256	-57.39	-13	-44.39	-58.22	-64.61	2.48	9.70	V
	10512	-47.71	-13	-34.71	-56.33	-57.42	2.69	12.40	V
									V
									V
									V

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



LTE Band 5

LTE Band 5 / 1.4MHz / 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	1648	-56.73	-13	-43.73	-44.57	-58.49	0.98	4.89	H
	2472	-52.59	-13	-39.59	-45.87	-54.47	1.28	5.32	H
	3296	-65.36	-13	-52.36	-60.69	-68.77	1.54	7.10	H
									H
									H
									H
	1648	-57.19	-13	-44.19	-45.5	-58.95	0.98	4.89	V
	2472	-57.11	-13	-44.11	-50.83	-58.99	1.28	5.32	V
	3296	-65.04	-13	-52.04	-60.7	-68.45	1.54	7.10	V
									V
									V
Middle	1672	-57.43	-13	-44.43	-45.56	-59.11	0.99	4.82	H
	2512	-45.25	-13	-32.25	-38.64	-47.22	1.29	5.41	H
	3344	-64.93	-13	-51.93	-60.46	-68.54	1.56	7.31	H
									H
									H
									H
	1672	-57.43	-13	-44.43	-46.02	-59.11	0.99	4.82	V
	2512	-51.18	-13	-38.18	-45.03	-53.15	1.29	5.41	V
	3344	-64.61	-13	-51.61	-60.35	-68.22	1.56	7.31	V
									V
									V
Highest	1696	-58.62	-13	-45.62	-46.91	-60.22	1.00	4.75	H
	2544	-53.75	-13	-40.75	-47.19	-55.73	1.30	5.44	H
	3392	-65.04	-13	-52.04	-60.78	-68.84	1.57	7.52	H
									H
									H
									H
	1696	-58.82	-13	-45.82	-47.55	-60.42	1.00	4.75	V
	2544	-57.79	-13	-44.79	-51.73	-59.77	1.30	5.44	V
	3392	-64.62	-13	-51.62	-60.45	-68.42	1.57	7.52	V
									V
									V

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



LTE Band 5 / 3MHz / 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	-56.09	-13	-43.09	-43.93	-57.85	0.98	4.89	H
	2472	-51.81	-13	-38.81	-45.09	-53.69	1.28	5.32	H
	3296	-65.55	-13	-52.55	-60.88	-68.96	1.54	7.10	H
									H
									H
									H
	1648	-56.76	-13	-43.76	-45.07	-58.52	0.98	4.89	V
	2472	-56.41	-13	-43.41	-50.13	-58.29	1.28	5.32	V
	3296	-65.12	-13	-52.12	-60.78	-68.53	1.54	7.10	V
									V
									V
									V
Middle	1672	-58.39	-13	-45.39	-46.52	-60.07	0.99	4.82	H
	2504	-46.40	-13	-33.40	-39.76	-48.36	1.29	5.40	H
	3344	-65.11	-13	-52.11	-60.64	-68.72	1.56	7.31	H
									H
									H
									H
	1672	-58.71	-13	-45.71	-47.3	-60.39	0.99	4.82	V
	2504	-52.12	-13	-39.12	-45.93	-54.08	1.29	5.40	V
	3344	-64.64	-13	-51.64	-60.38	-68.25	1.56	7.31	V
									V
									V
									V
Highest	1696	-60.31	-13	-47.31	-48.6	-61.91	1.00	4.75	H
	2536	-52.83	-13	-39.83	-46.24	-54.81	1.30	5.43	H
	3392	-64.95	-13	-51.95	-60.69	-68.75	1.57	7.52	H
									H
									H
									H
	1696	-59.47	-13	-46.47	-48.2	-61.07	1.00	4.75	V
	2536	-55.78	-13	-42.78	-49.68	-57.76	1.30	5.43	V
	3392	-64.66	-13	-51.66	-60.49	-68.46	1.57	7.52	V
									V
									V
									V

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



LTE Band 5 / 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	1648	-55.14	-13	-42.14	-42.98	-56.9	0.98	4.89	H
	2472	-50.94	-13	-37.94	-44.22	-52.82	1.28	5.32	H
	3296	-65.30	-13	-52.30	-60.63	-68.71	1.54	7.10	H
									H
									H
									H
	1648	-55.66	-13	-42.66	-43.97	-57.42	0.98	4.89	V
	2472	-57.04	-13	-44.04	-50.76	-58.92	1.28	5.32	V
	3296	-64.96	-13	-51.96	-60.62	-68.37	1.54	7.10	V
									V
Middle	1672	-61.11	-13	-48.11	-49.24	-62.79	0.99	4.82	H
	2504	-46.31	-13	-33.31	-39.68	-48.27	1.29	5.40	H
	3344	-65.43	-13	-52.43	-60.96	-69.04	1.56	7.31	H
									H
									H
									H
	1672	-60.46	-13	-47.46	-49.05	-62.14	0.99	4.82	V
	2504	-53.67	-13	-40.67	-47.48	-55.63	1.29	5.40	V
	3344	-64.91	-13	-51.91	-60.65	-68.52	1.56	7.31	V
									V
Highest	1688	-60.72	-13	-47.72	-48.85	-62.35	1.00	4.77	H
	2536	-50.89	-13	-37.89	-44.3	-52.87	1.30	5.43	H
	3376	-65.11	-13	-52.11	-60.79	-68.85	1.57	7.45	H
									H
									H
									H
	1688	-58.26	-13	-45.26	-46.85	-59.89	1.00	4.77	V
	2536	-56.56	-13	-43.56	-50.46	-58.54	1.30	5.43	V
	3376	-64.54	-13	-51.54	-60.35	-68.28	1.57	7.45	V
									V

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



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	-58.93	-13	-45.93	-46.72	-60.69	0.98	4.89	H
	2472	-59.67	-13	-46.67	-52.84	-61.55	1.28	5.32	H
	3316	-66.02	-13	-53.02	-61.38	-69.51	1.55	7.19	H
									H
									H
									H
	1648	-59.35	-13	-46.35	-47.59	-61.11	0.98	4.89	V
	2472	-63.33	-13	-50.33	-56.84	-65.21	1.28	5.32	V
	3320	-65.68	-13	-52.68	-61.23	-69.19	1.55	7.21	V
									V
									V
									V
Middle	1664	-57.45	-13	-44.45	-45.34	-59.16	0.98	4.84	H
	2496	-46.97	-13	-33.97	-40.17	-48.92	1.29	5.39	H
	3345	-65.08	-13	-52.08	-60.46	-68.69	1.56	7.32	H
									H
									H
									H
	1664	-57.98	-13	-44.98	-46.06	-59.69	0.98	4.84	V
	2496	-58.97	-13	-45.97	-44.66	-60.92	1.29	5.39	V
	3344	-64.44	-13	-51.44	-59.92	-68.05	1.56	7.31	V
									V
									V
									V
Highest	1680	-59.57	-13	-46.57	-47.64	-61.22	0.99	4.80	H
	2520	-46.47	-13	-33.47	-39.73	-48.44	1.30	5.42	H
	3376	-65.32	-13	-52.32	-60.74	-69.06	1.57	7.45	H
									H
									H
									H
	1680	-58.36	-13	-45.36	-46.74	-60.01	0.99	4.80	V
	2520	-52.25	-13	-39.25	-46	-54.22	1.30	5.42	V
	3376	-64.85	-13	-51.85	-60.55	-68.59	1.57	7.45	V
									V
									V
									V

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



LTE Band 7

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	-62.52	-25	-37.52	-62.22	-69.88	2.34	9.70	H
	7500	-53.34	-25	-28.34	-57.21	-62.71	2.43	11.80	H
	10008	-47.76	-25	-22.76	-55.35	-57.27	2.70	12.20	H
									H
									H
									H
	5004	-62.86	-25	-37.86	-62.4	-70.22	2.34	9.70	V
	7500	-64.34	-25	-39.34	-68.44	-73.71	2.43	11.80	V
	10008	-56.97	-25	-31.97	-64.52	-66.48	2.70	12.20	V
									V
									V
									V

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

LTE Band 12

LTE Band 12 / 1.4MHz / 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	1400	-64.53	-13.00	-51.53	-50.50	-66.19	0.87	4.68	H
	2096	-54.15	-13.00	-41.15	-45.34	-55.02	1.16	4.19	H
	2800	-65.95	-13.00	-52.95	-59.61	-68.06	1.38	5.64	H
									H
									H
									H
	1400	-64.35	-13.00	-51.35	-50.78	-66.01	0.87	4.68	V
	2096	-53.94	-13.00	-40.94	-45.42	-54.81	1.16	4.19	V
	2800	-65.33	-13.00	-52.33	-59.66	-67.44	1.38	5.64	V
									V
									V
									V

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



LTE Band 17

LTE Band 17 / 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)
Highest	1424	-54.41	-13	-41.41	-40.55	-56.21	0.88	4.83	H
	2136	-65.11	-13	-52.11	-56.66	-66.09	1.18	4.31	H
	2848	-66.44	-13	-53.44	-60.22	-68.57	1.40	5.68	H
									H
									H
									H
	1424	-53.03	-13	-40.03	-39.44	-54.83	0.88	4.83	V
	2136	-65.13	-13	-52.13	-56.81	-66.11	1.18	4.31	V
	2848	-65.92	-13	-52.92	-60.56	-68.05	1.40	5.68	V
									V
									V
									V

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

LTE Band 66

LTE Band 66 / 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)
Highest	3552	-62.57	-13	-49.57	-58.33	-69.01	1.62	8.06	H
	5328	-64.94	-13	-51.94	-66.23	-72.11	2.53	9.70	H
	7104	-63.36	-13	-50.36	-67.58	-71.81	2.56	11.01	H
	10648.5	-48.35	-13	-35.35	-57.89	-58.09	2.69	12.43	H
									H
									H
	3552	-65.57	-13	-52.57	-61.26	-72.01	1.62	8.06	V
	5328	-63.38	-13	-50.38	-64.72	-70.55	2.53	9.70	V
	7104	-64.57	-13	-51.57	-68.78	-73.02	2.56	11.01	V
	10648.5	-51.81	-13	-38.81	-61.02	-61.55	2.69	12.43	V
									V
									V

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



Appendix C. Original Report

Please refer to Sporton report number FG720310B.