



LTE Band 7

Conducted Output Power(Average power)

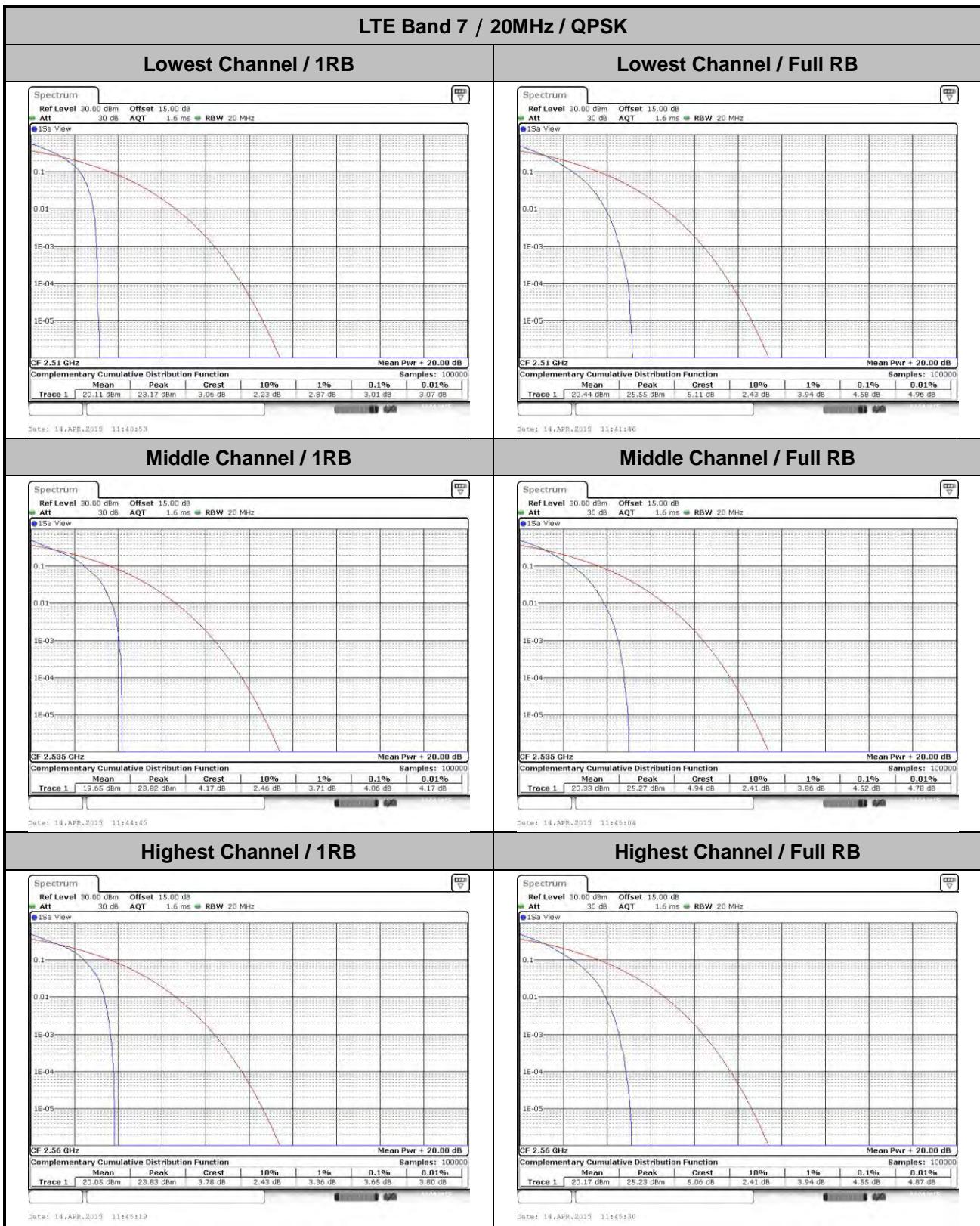
LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.04	21.14	21.12
	1	12		21.01	21.07	21.17
	1	24		21.00	21.04	21.20
	12	0		20.09	20.14	20.21
	12	6		20.06	20.14	20.20
	12	11		20.01	20.18	20.16
	25	0		19.94	20.13	20.14
	1	0		19.68	19.87	20.06
5	1	12	16-QAM	19.72	19.83	19.79
	1	24		19.62	20.07	19.98
	12	0		19.20	19.24	19.29
	12	6		19.08	19.21	19.37
	12	11		19.13	19.23	19.27
	25	0		19.01	19.32	19.26
	1	0		21.05	21.03	21.05
	1	24		20.93	21.05	21.06
10	1	49	QPSK	21.14	21.11	21.21
	25	0		20.01	20.15	20.16
	25	12		19.91	20.15	20.17
	25	24		19.95	20.15	20.12
	50	0		19.92	20.01	20.10
	1	0		20.15	19.98	20.06
	1	24		20.16	20.05	20.30
	1	49		20.15	20.01	20.07
10	25	0	16-QAM	18.91	19.15	19.07
	25	12		18.94	18.98	19.10
	25	24		18.88	19.07	19.14
	50	0		18.89	18.98	19.06

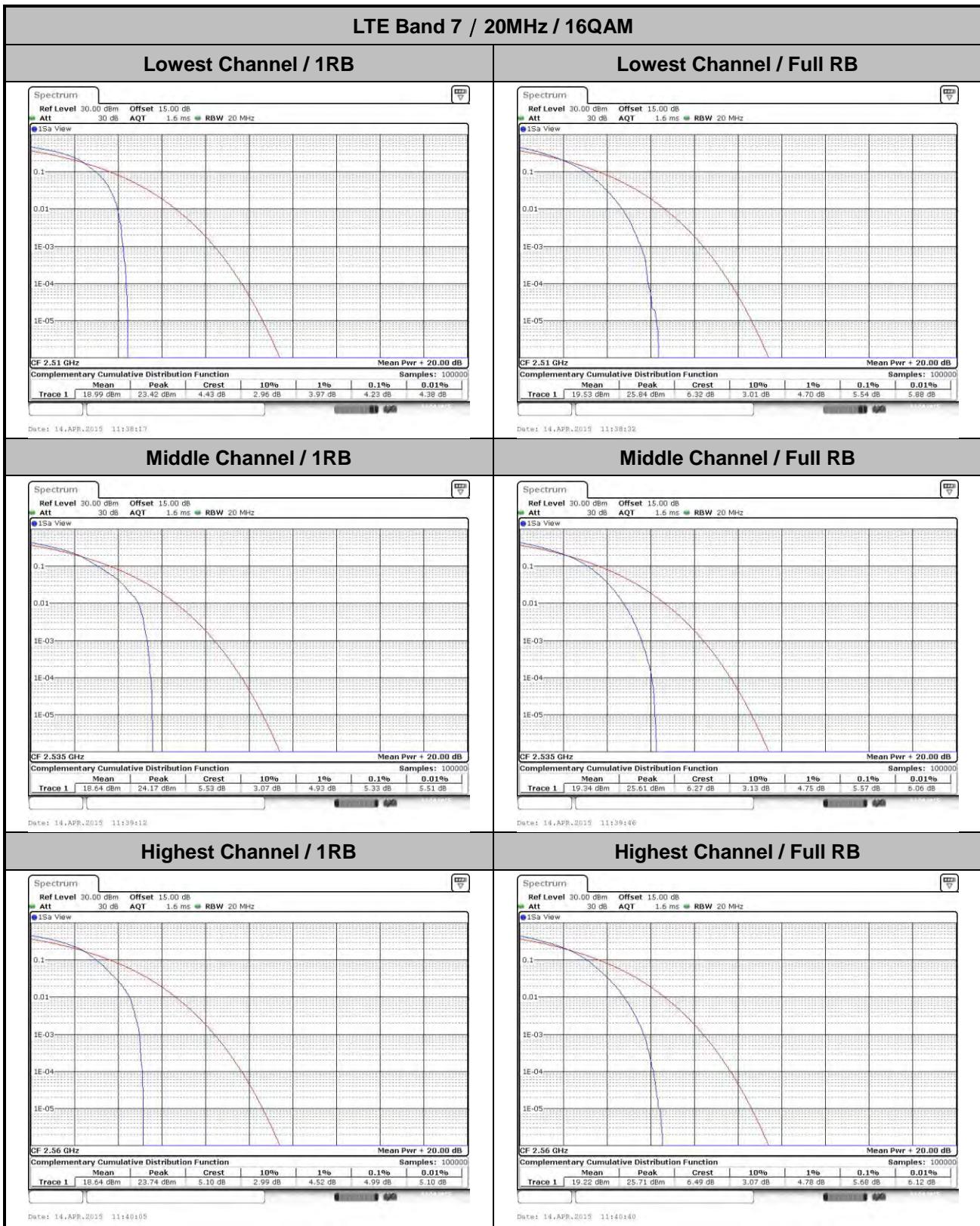


LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.05	21.02	21.20
	1	37		21.11	21.14	21.18
	1	74		21.14	21.23	21.15
	36	0		20.02	20.12	20.09
	36	18		19.91	20.05	19.96
	36	37		19.96	20.12	20.15
	75	0		19.85	20.10	20.09
15	1	0	16-QAM	20.00	19.99	20.40
	1	37		20.05	20.06	20.02
	1	74		20.02	20.19	20.47
	36	0		18.96	19.09	19.15
	36	18		19.01	19.14	19.19
	36	37		19.01	19.10	19.15
	75	0		19.02	19.09	19.13
20	1	0	QPSK	21.06	21.08	21.03
	1	49		21.10	21.14	21.12
	1	99		21.15	21.25	21.28
	50	0		20.04	20.16	20.21
	50	24		20.13	20.14	20.22
	50	49		20.14	20.17	20.24
	100	0		20.12	20.14	20.26
20	1	0	16-QAM	20.13	20.07	20.08
	1	49		20.12	20.37	20.21
	1	99		20.02	20.24	20.44
	50	0		19.13	19.23	19.04
	50	24		19.13	19.18	19.17
	50	49		19.04	19.21	19.21
	100	0		19.11	19.19	19.04

**Peak-to-Average Ratio**

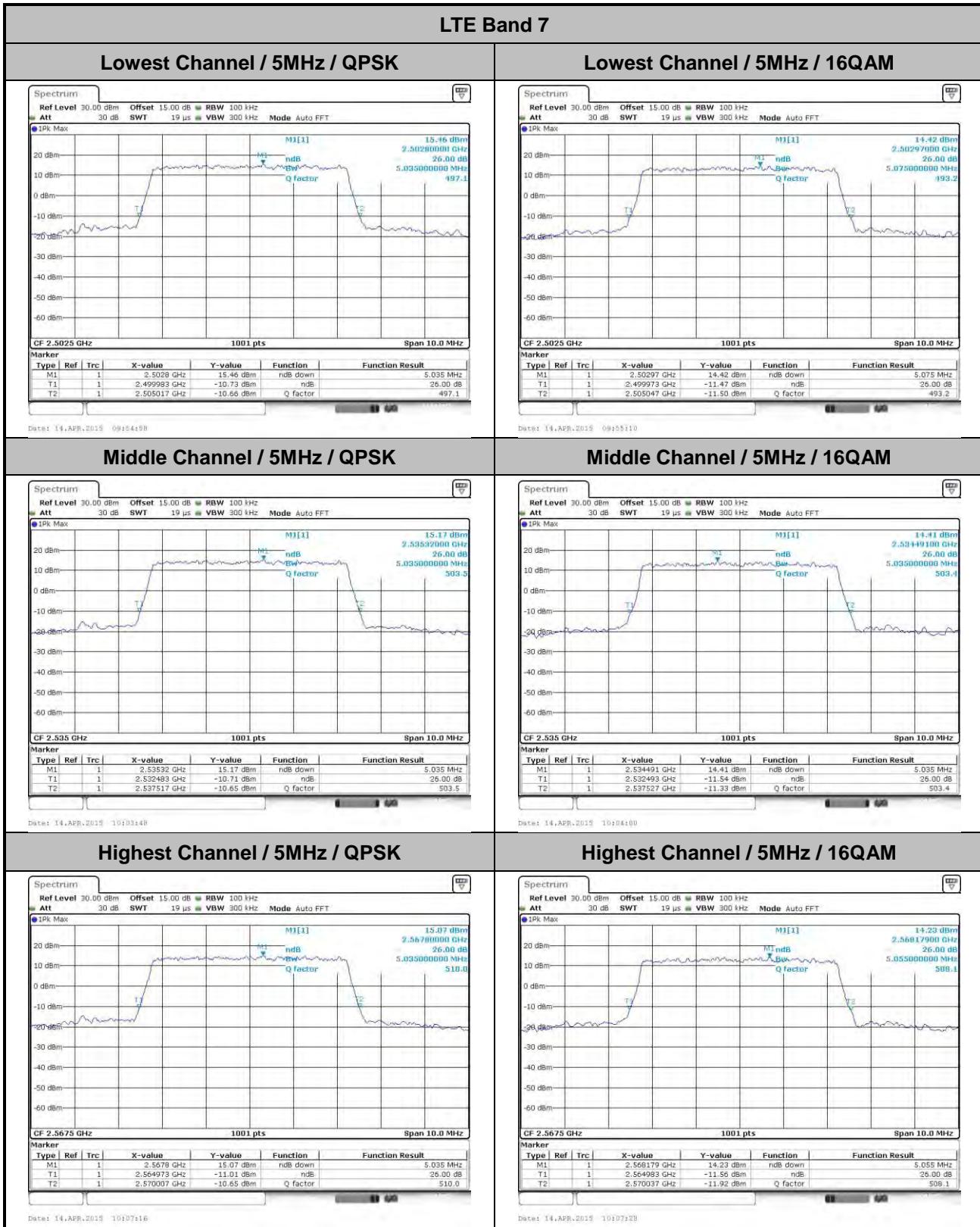
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	3.01	4.58	4.23	5.54	PASS
Middle CH	4.06	4.52	5.33	5.57	
Highest CH	3.65	4.55	4.99	5.68	

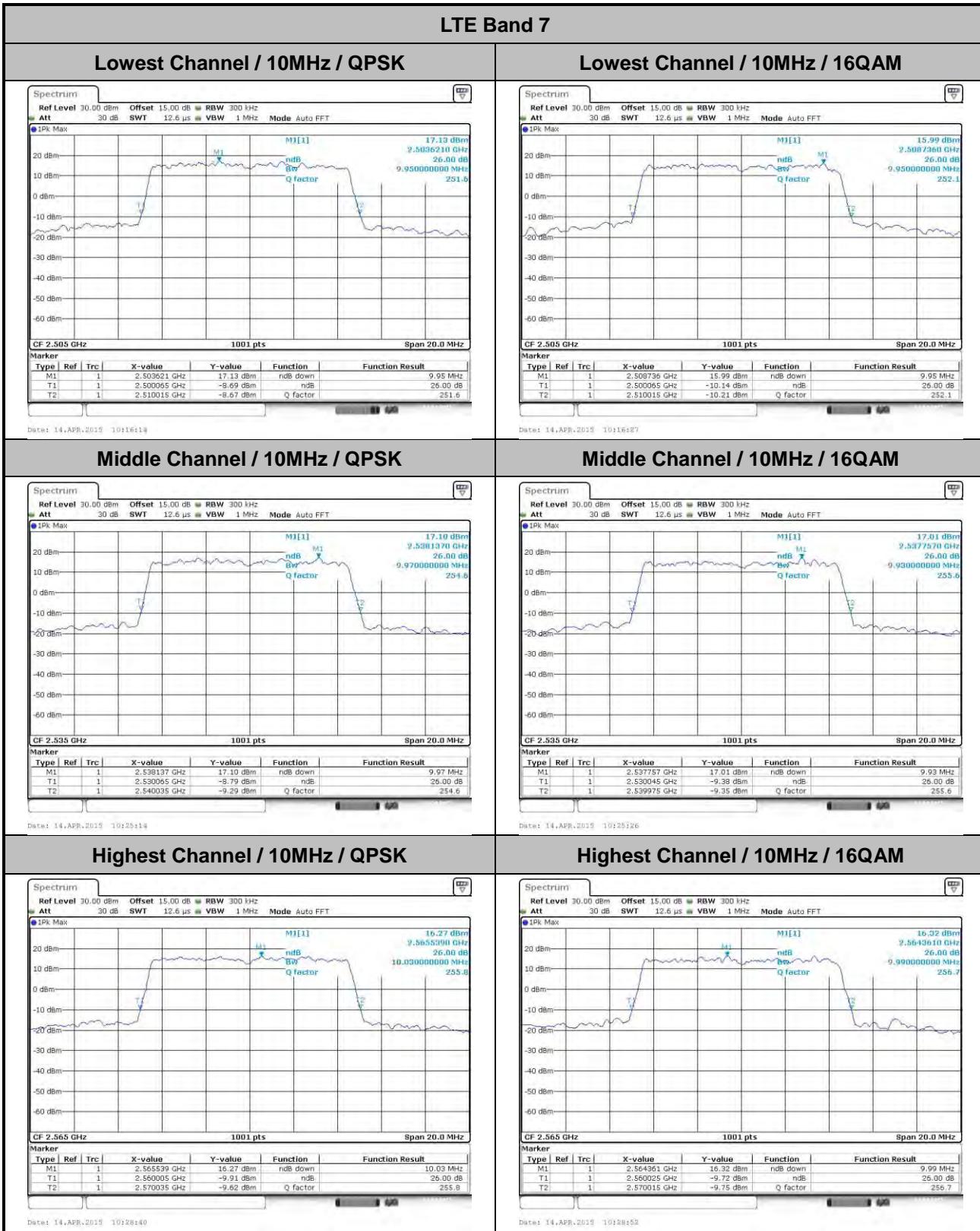


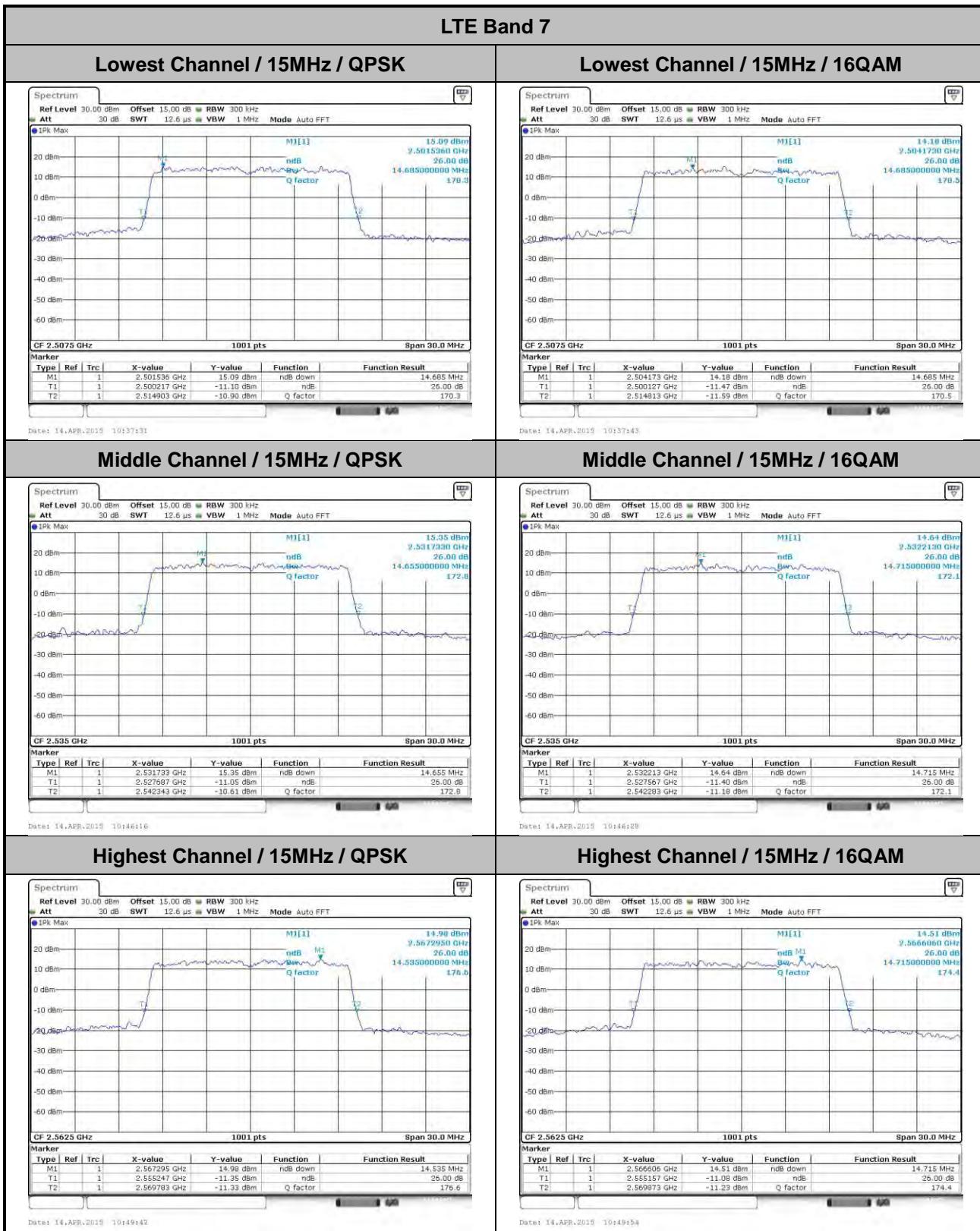


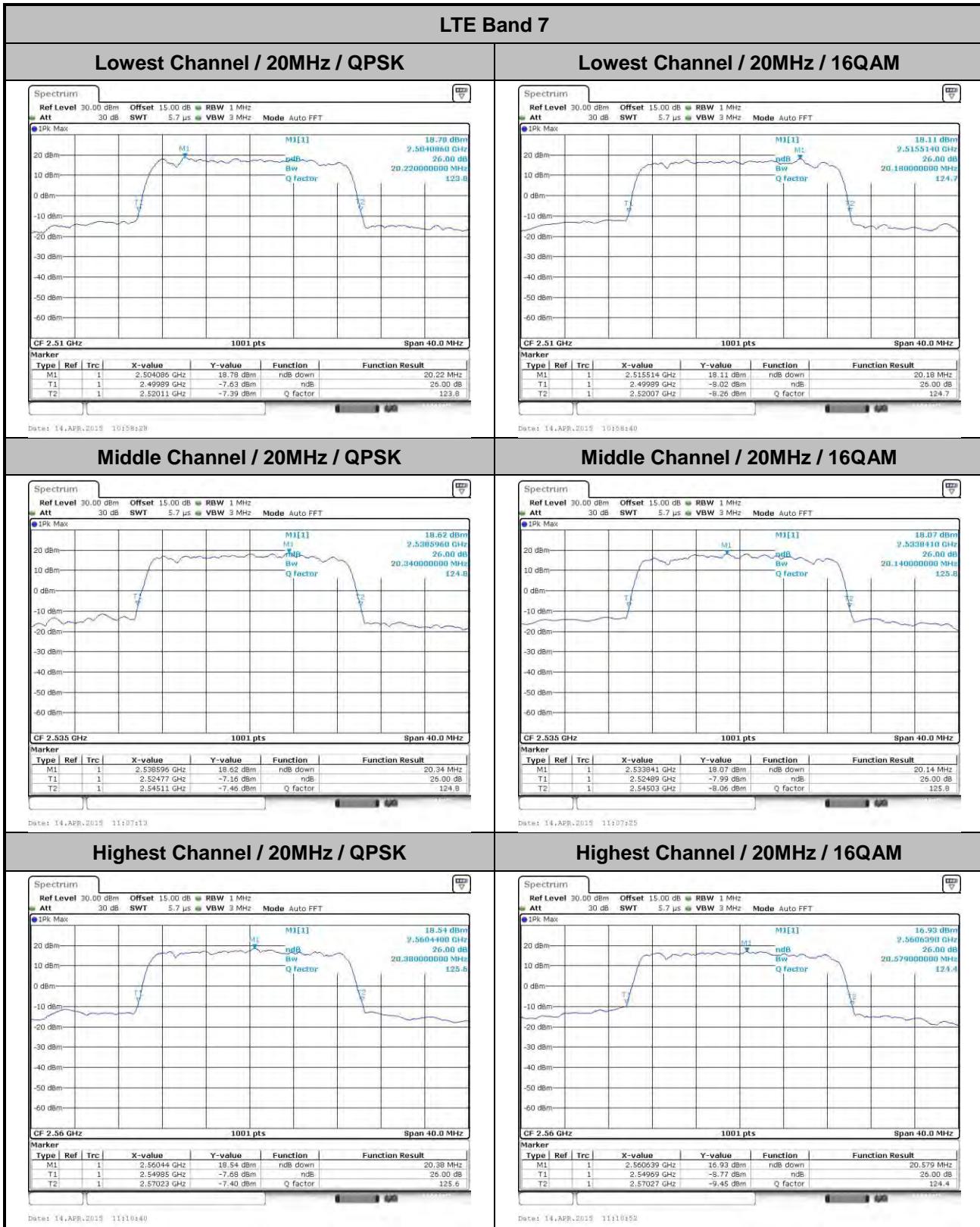
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.04	5.08	9.95	9.95	14.69	14.69	20.22	20.18
Middle CH	-	-	-	-	5.04	5.04	9.97	9.93	14.66	14.72	20.34	20.14
Highest CH	-	-	-	-	5.04	5.06	10.03	9.99	14.54	14.72	20.38	20.58





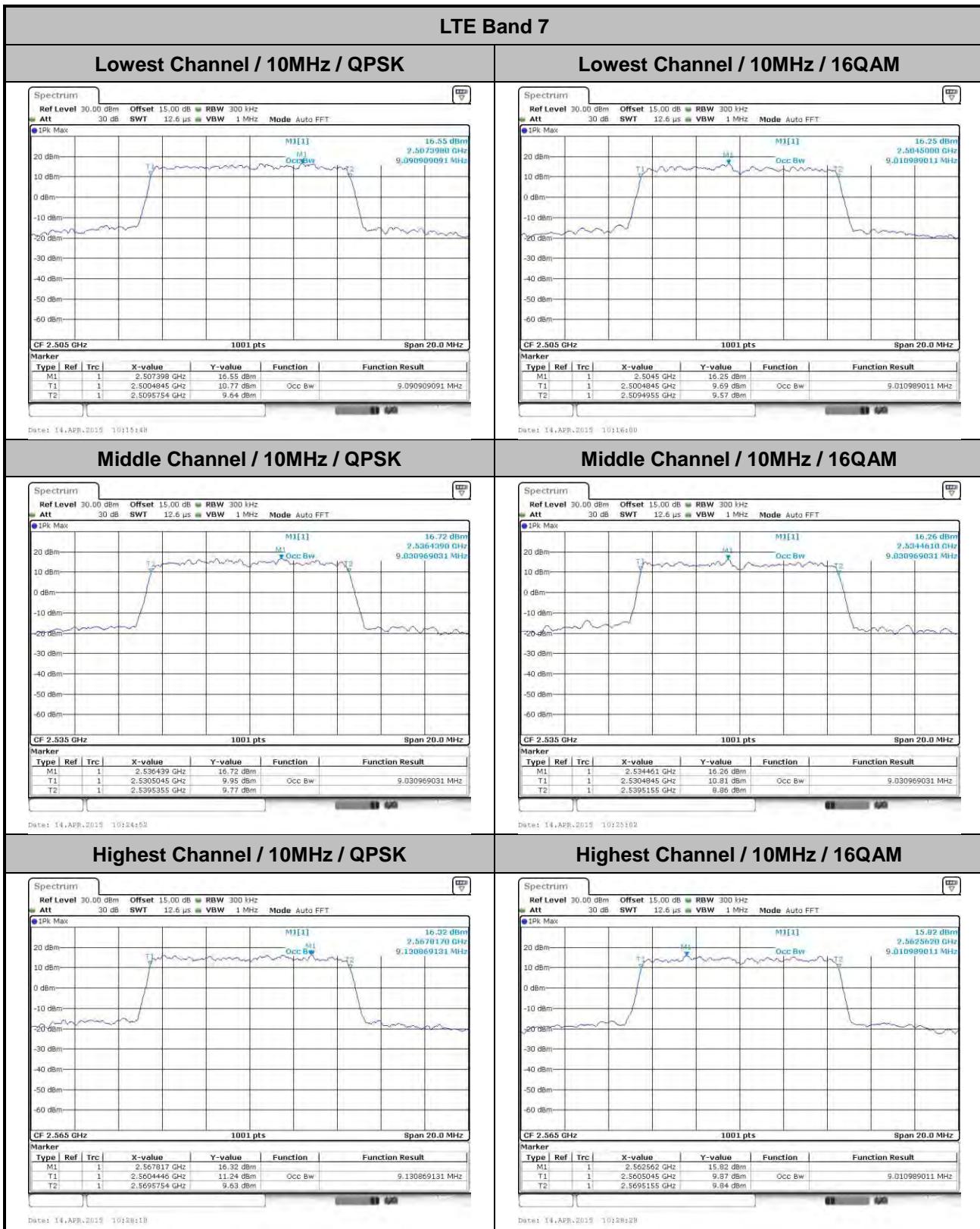


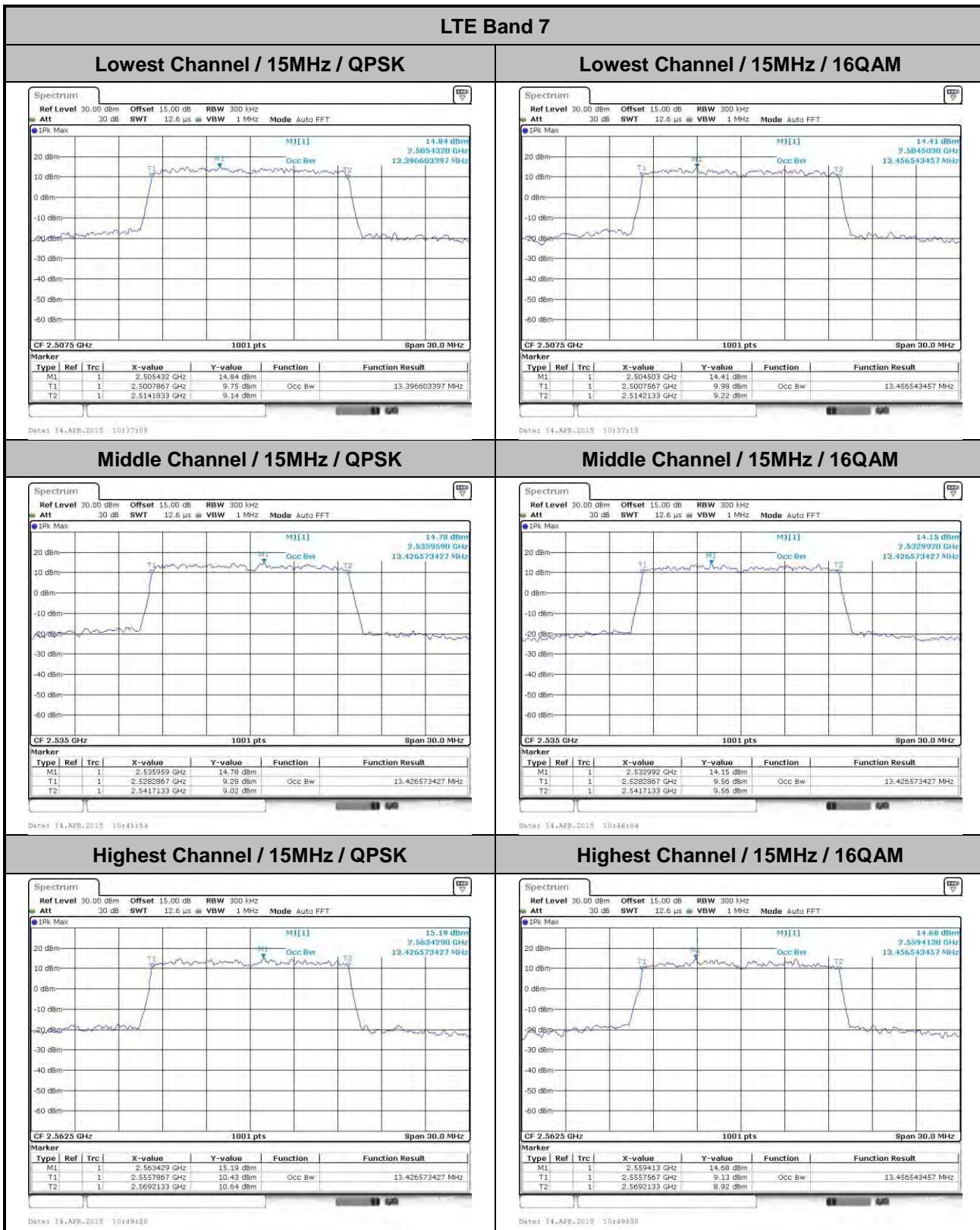


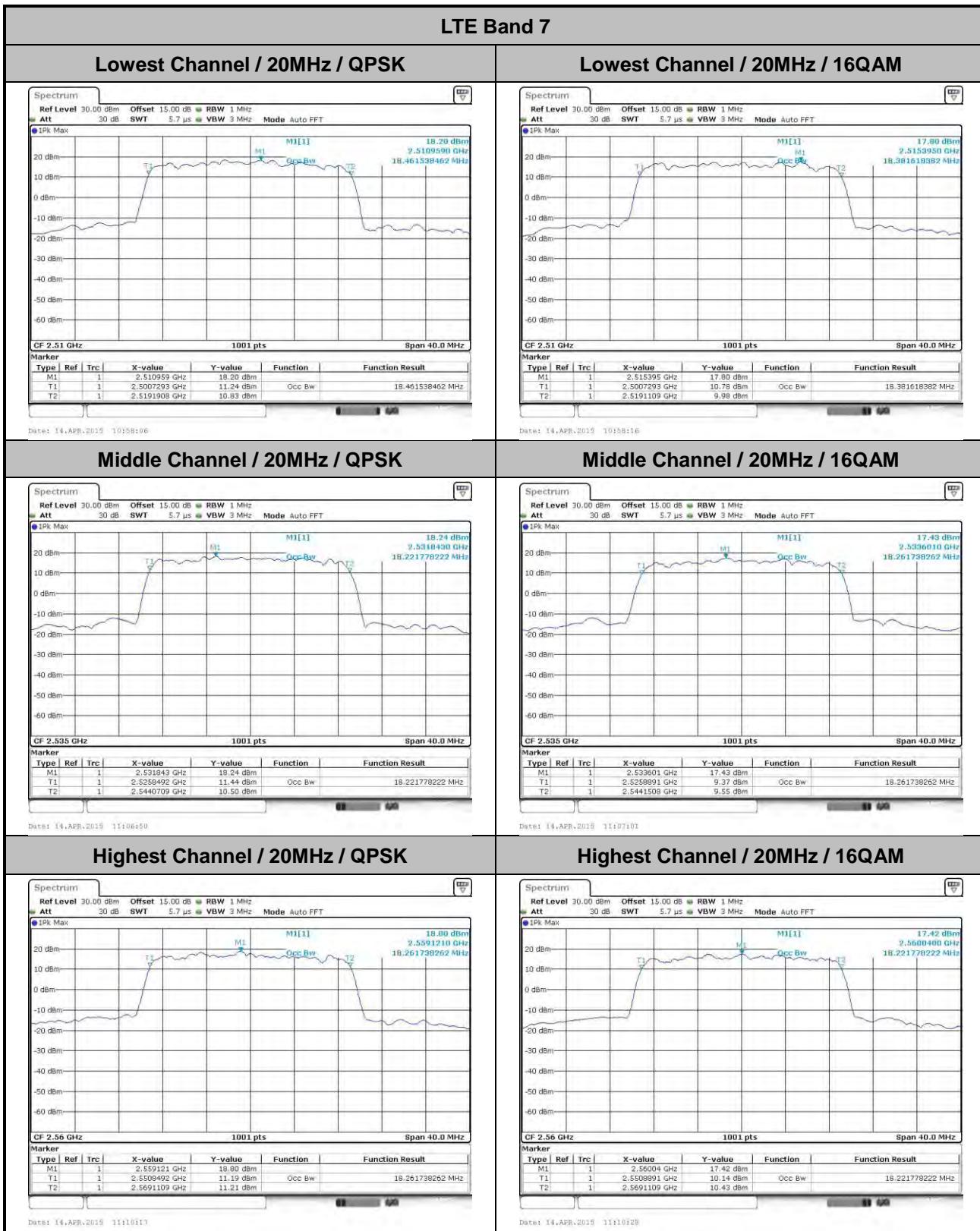
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	9.09	9.01	13.40	13.46	18.46	18.38
Middle CH	-	-	-	-	4.50	4.50	9.03	9.03	13.43	13.43	18.22	18.26
Highest CH	-	-	-	-	4.50	4.49	9.13	9.01	13.43	13.46	18.26	18.22



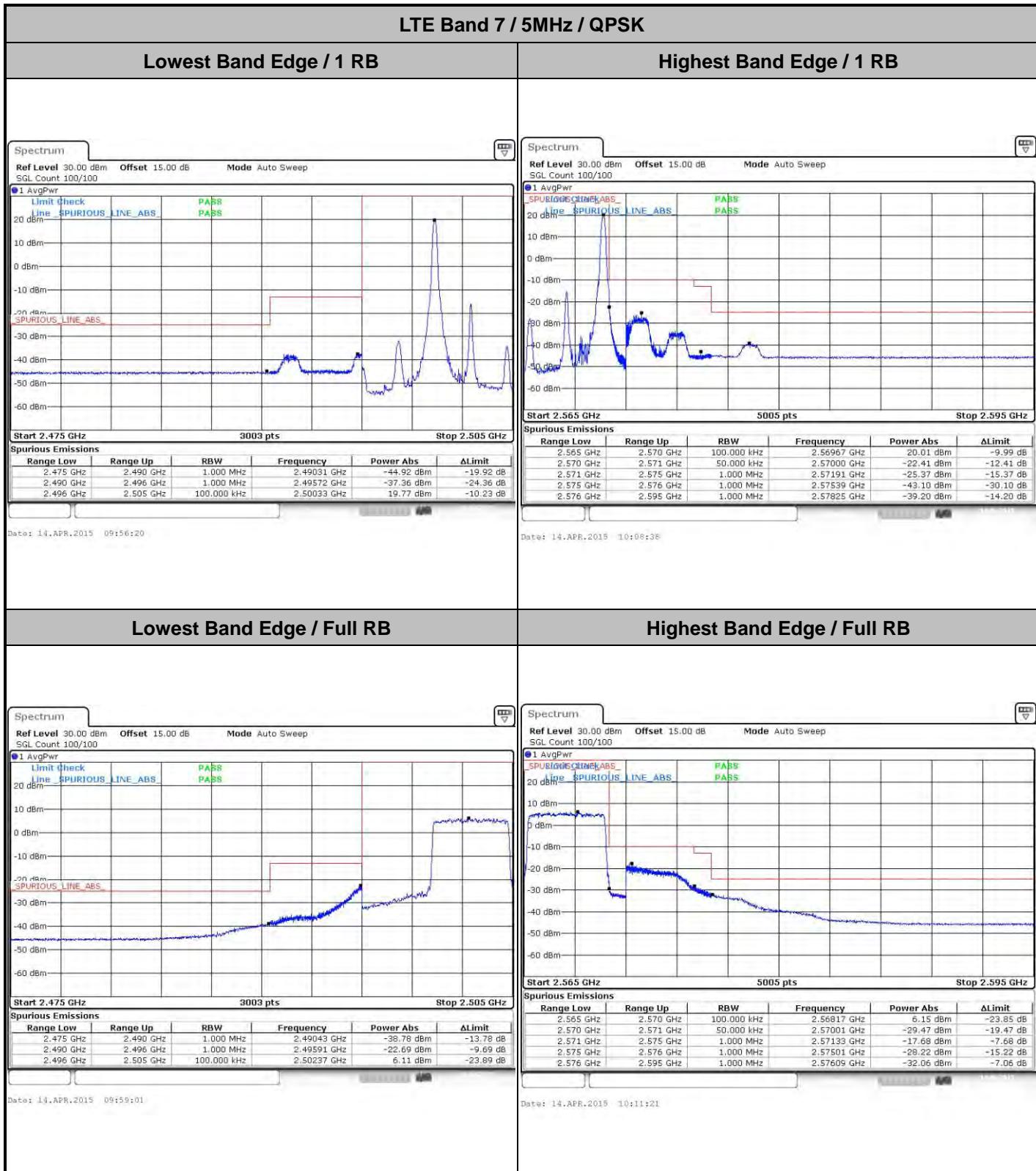


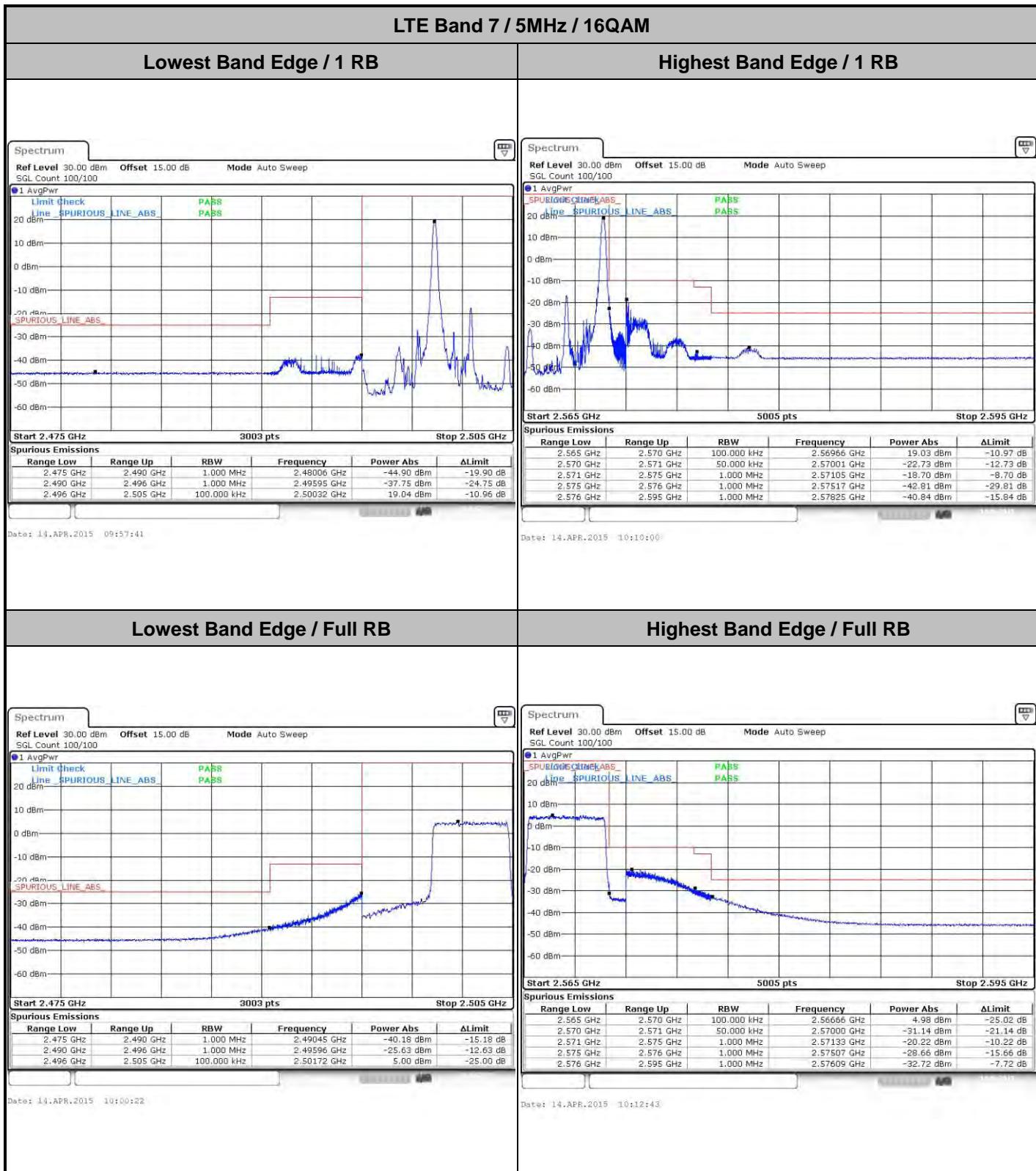


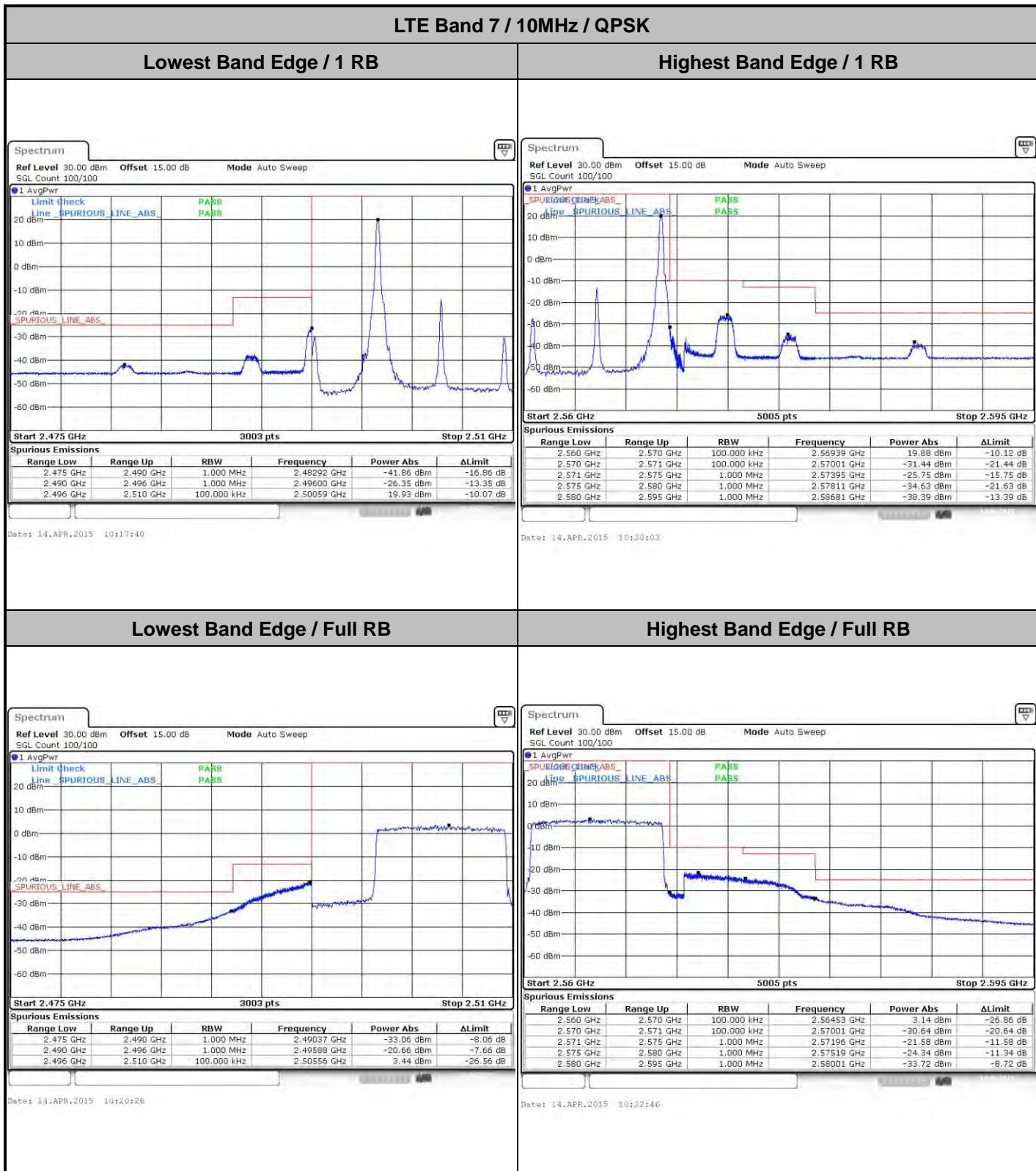


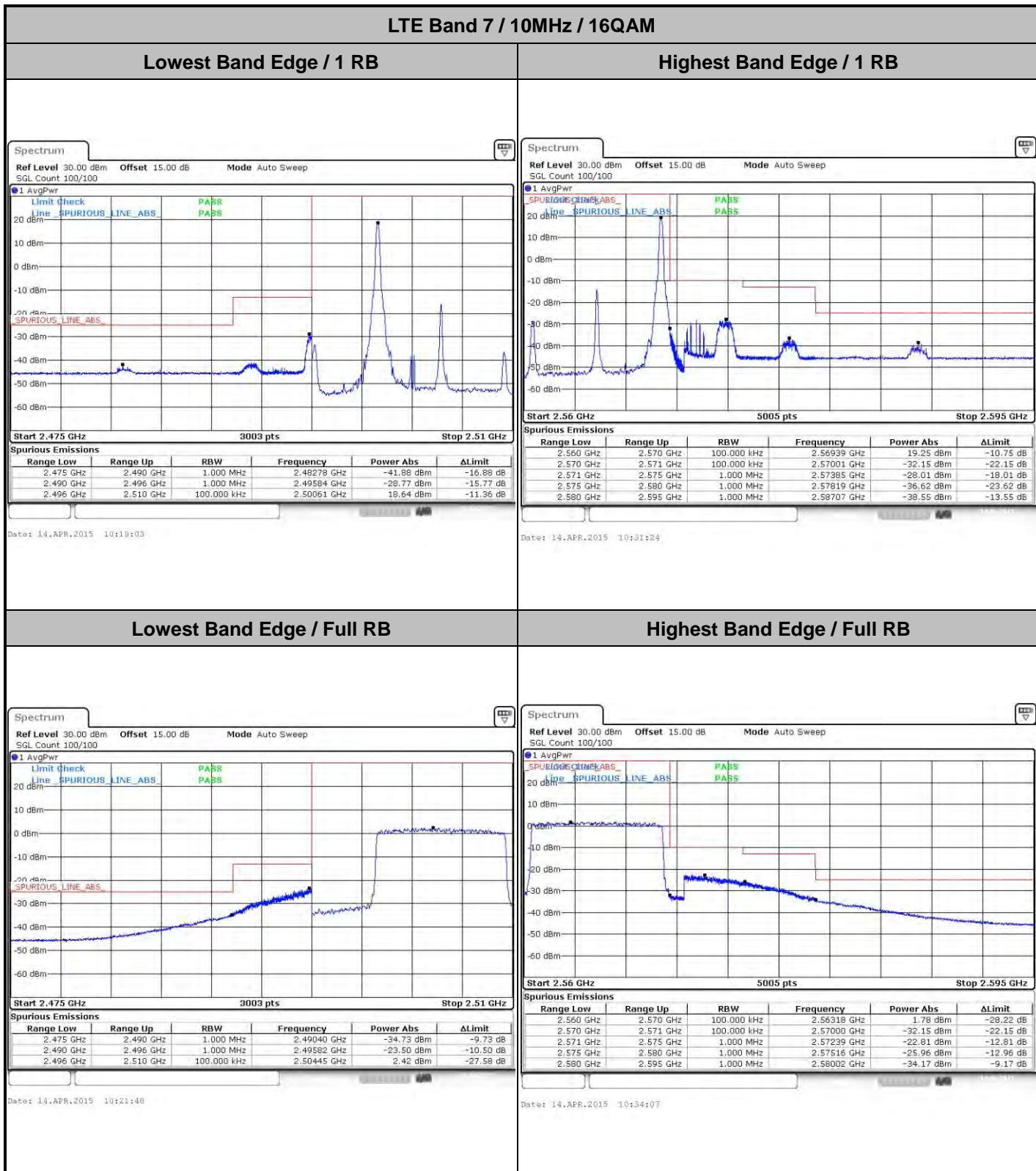


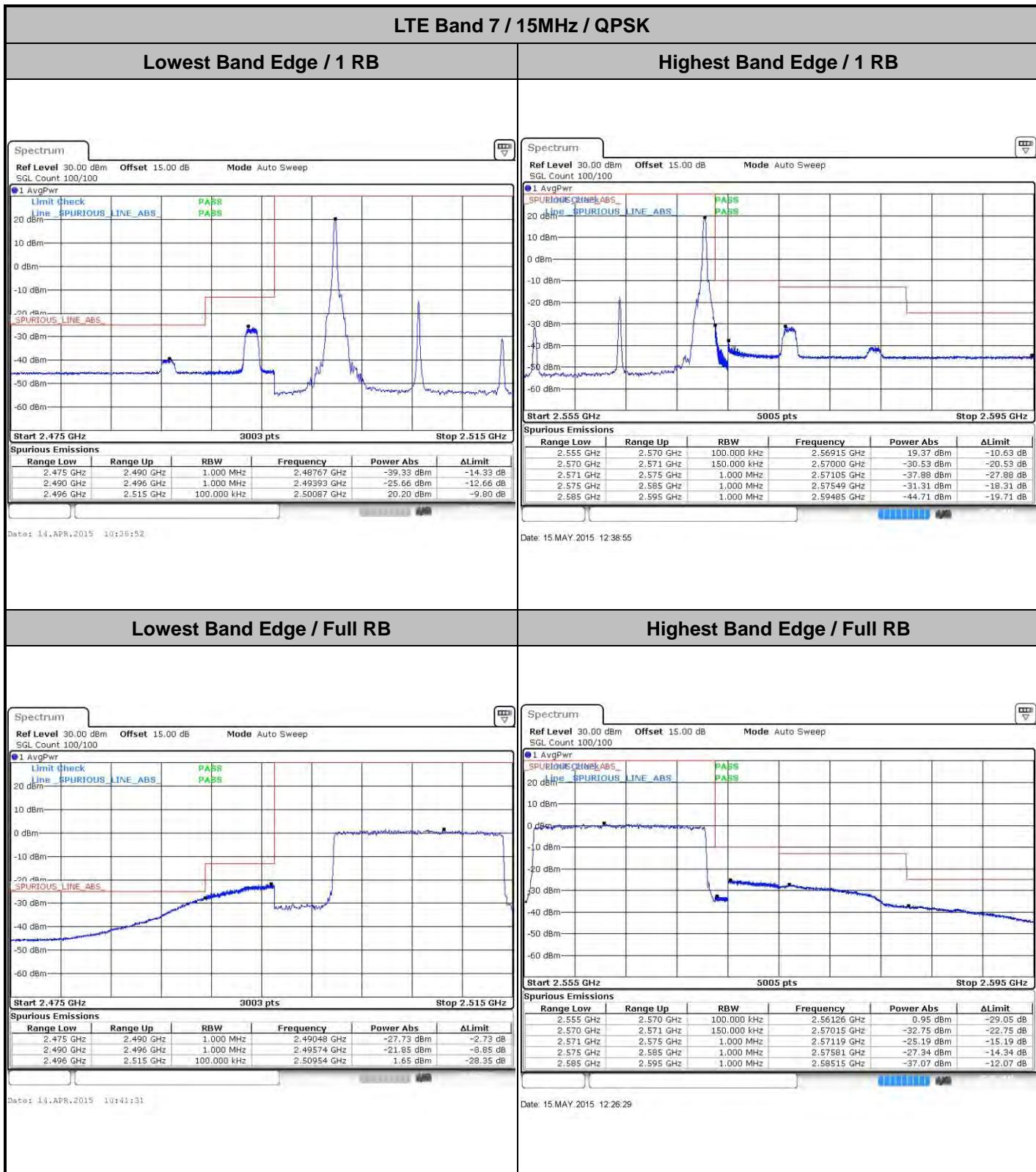
Conducted Band Edge

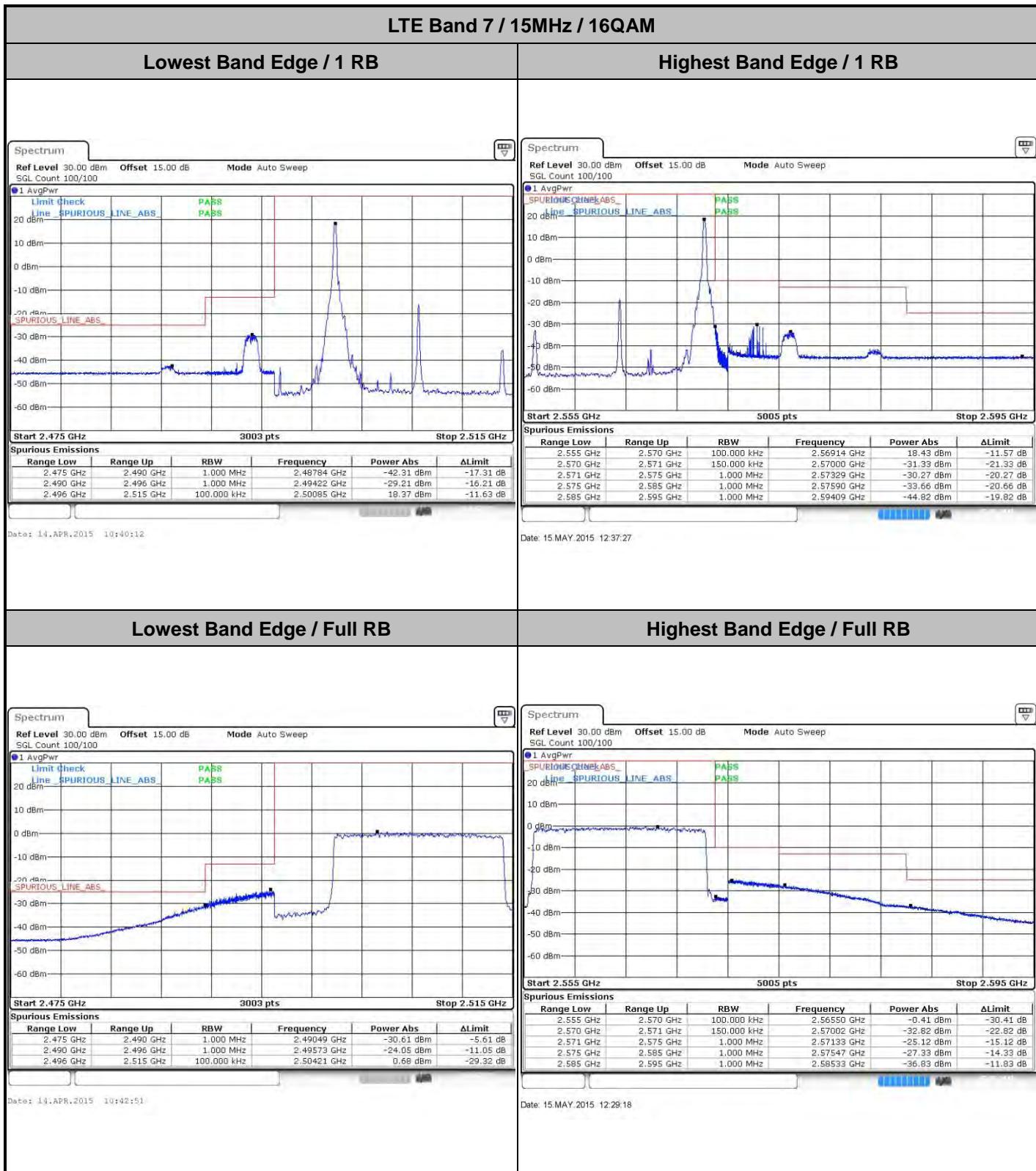


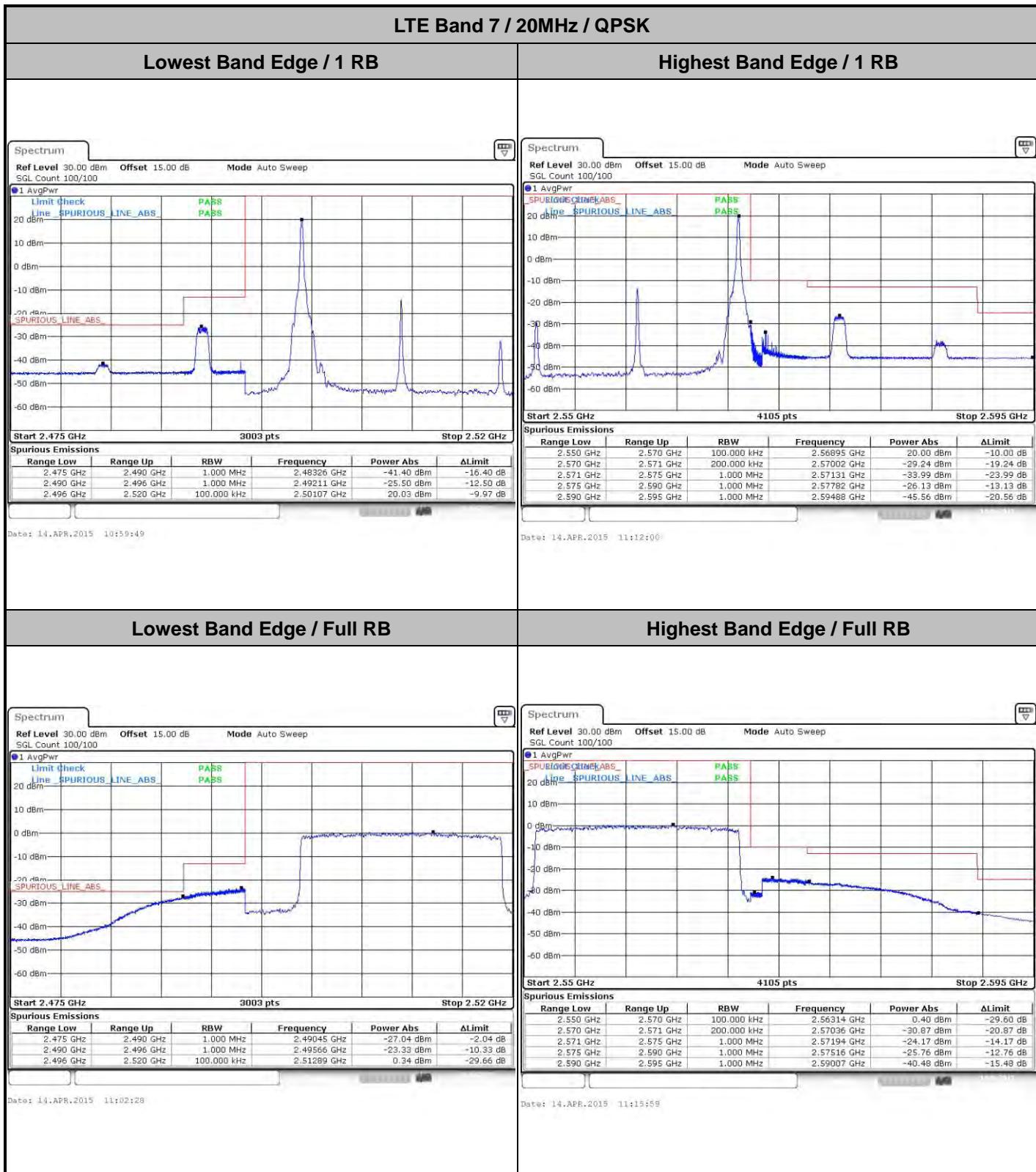


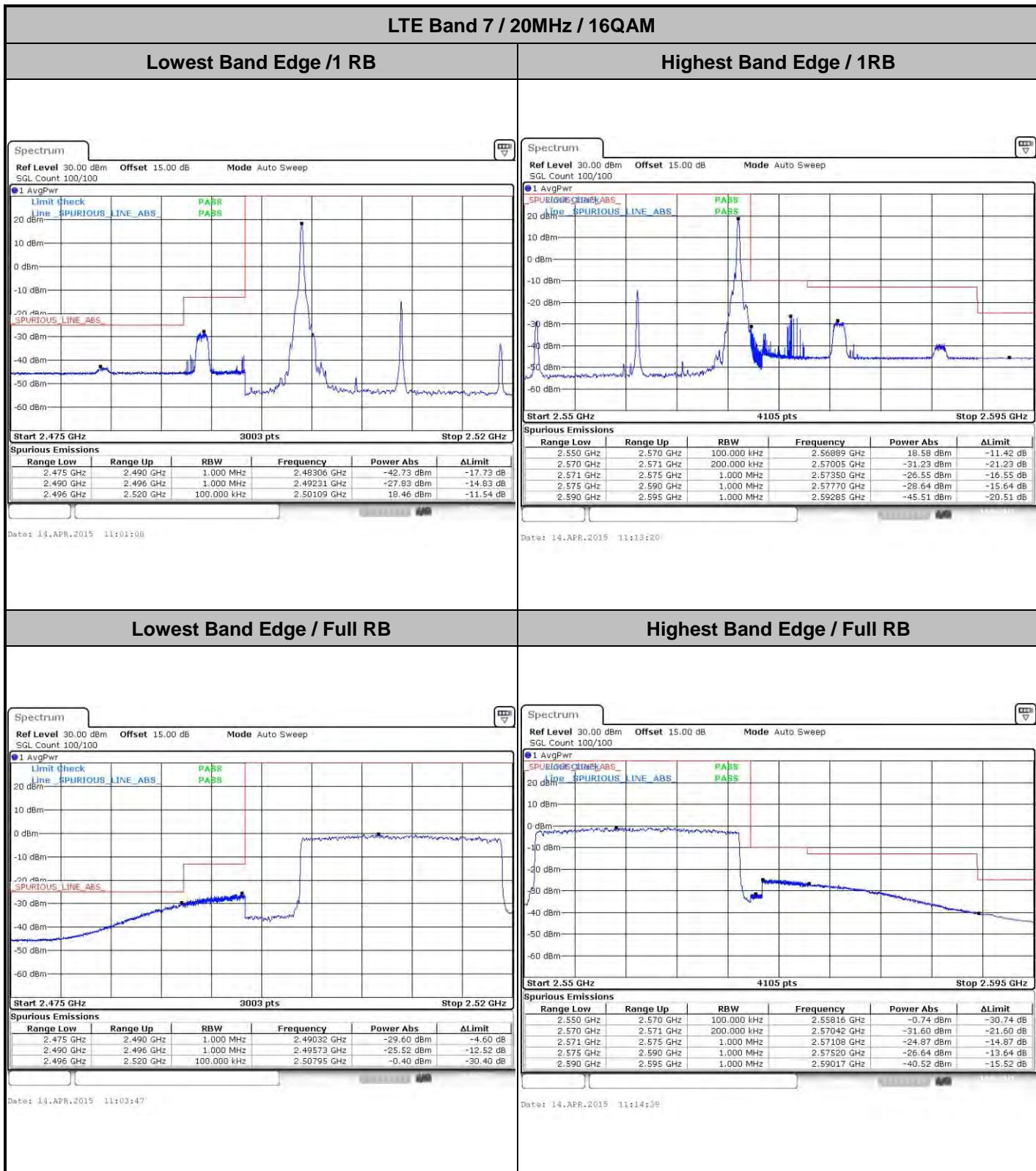












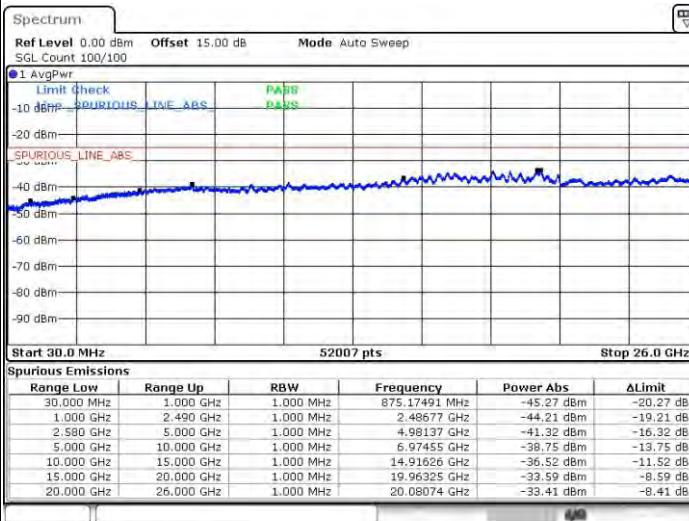
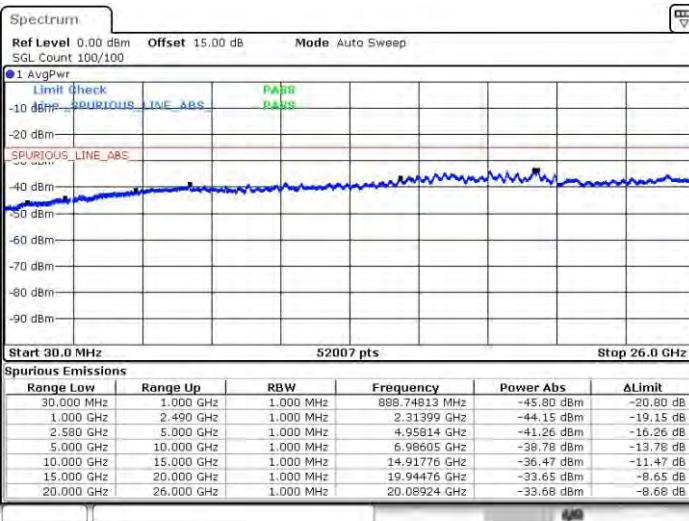


Conducted Spurious Emission

LTE Band 7 / 5MHz

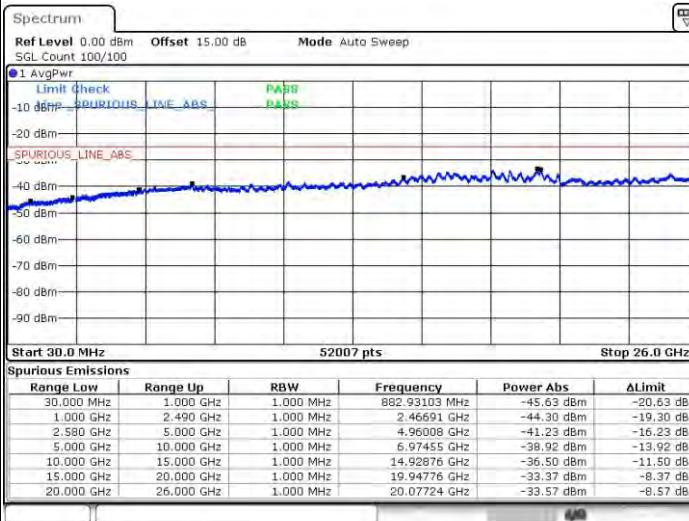
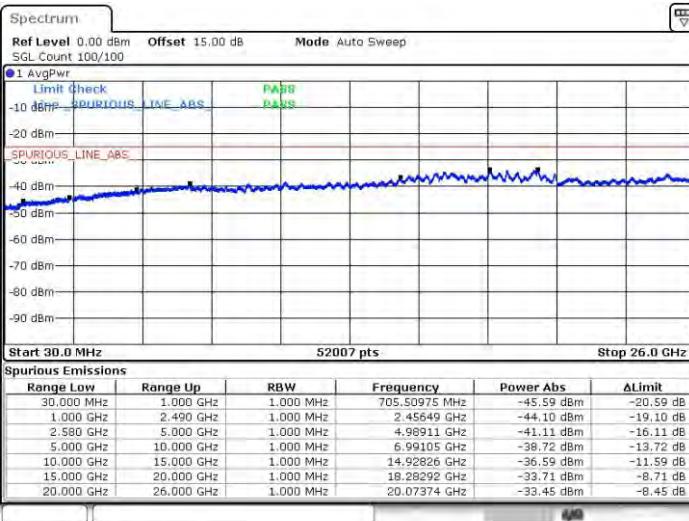
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

Middle Channel / 16QAM

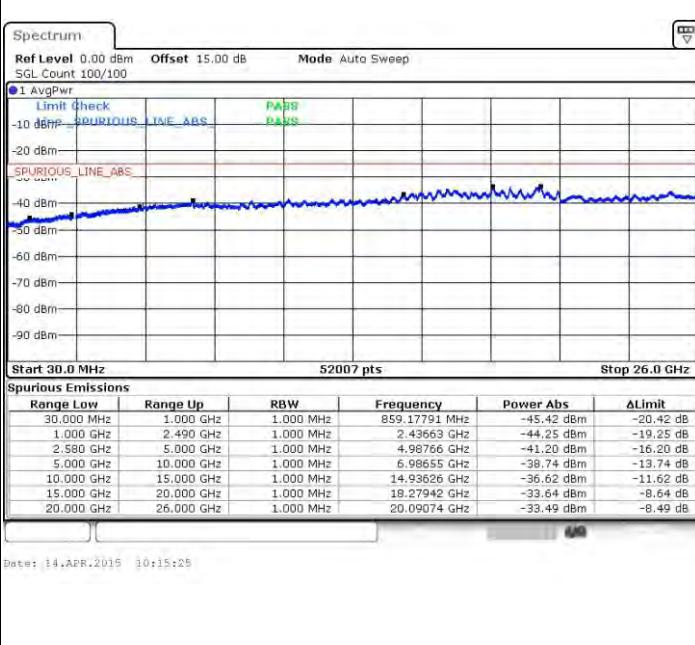
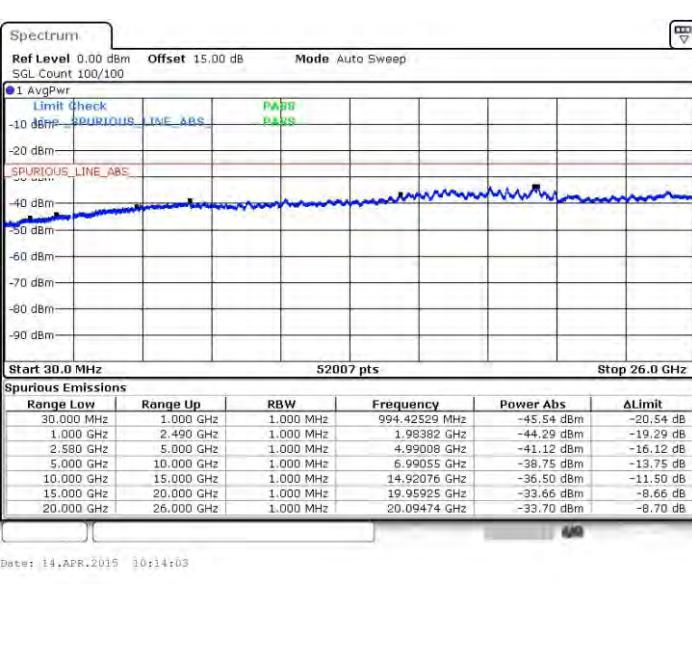




LTE Band 7 / 5MHz

Highest Channel / QPSK

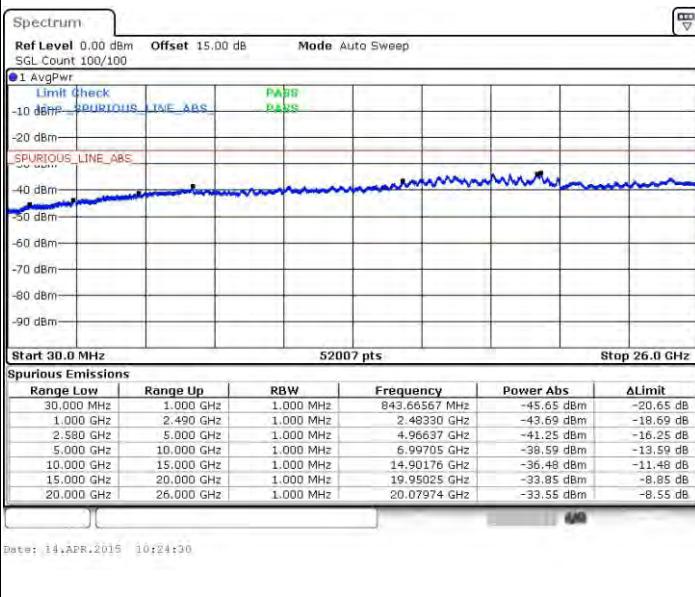
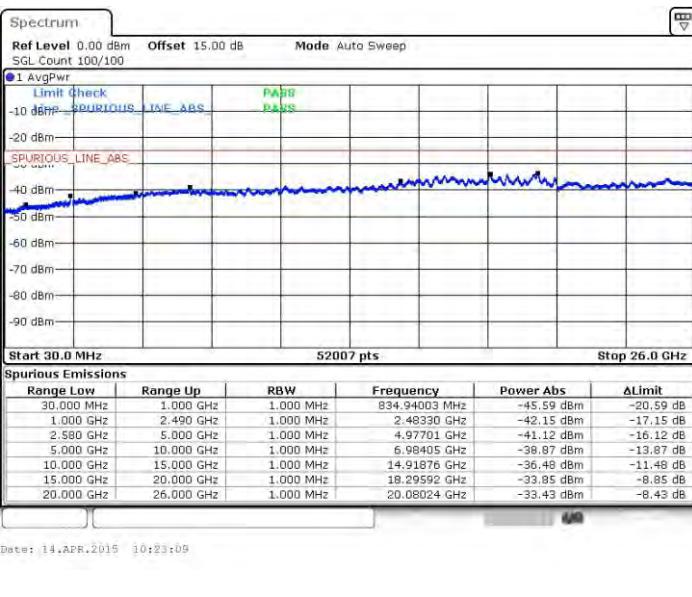
Highest Channel / 16QAM

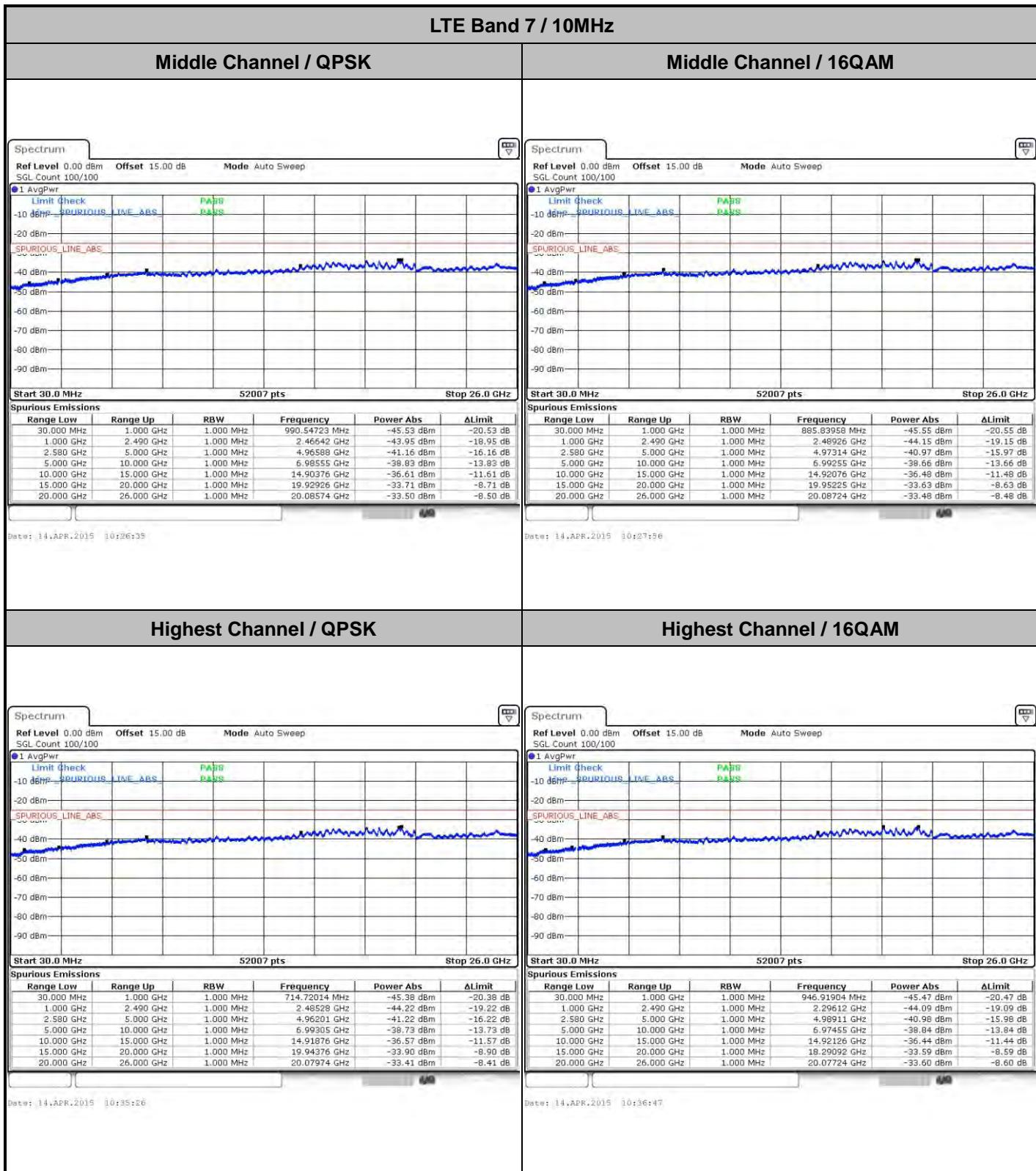


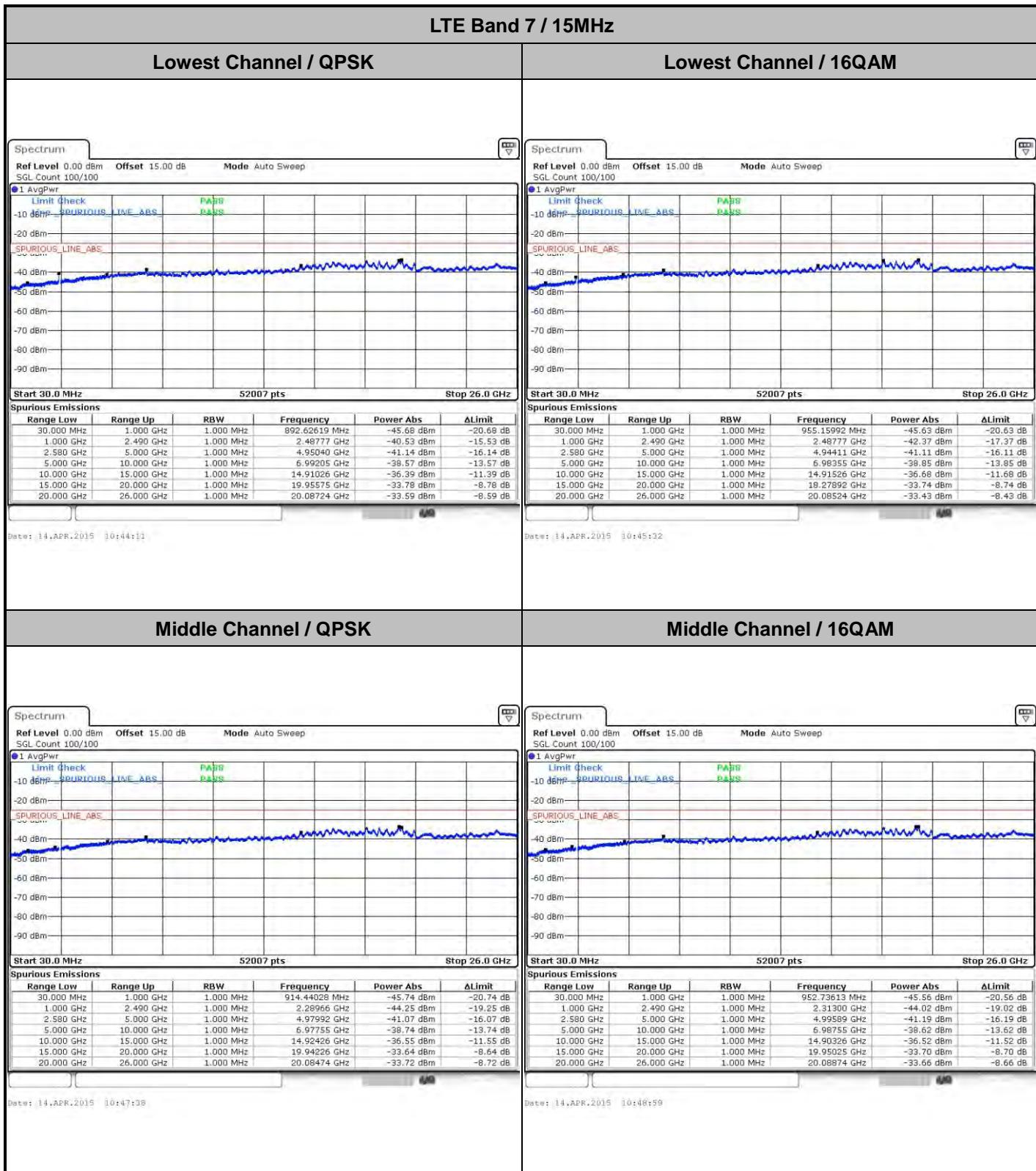
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





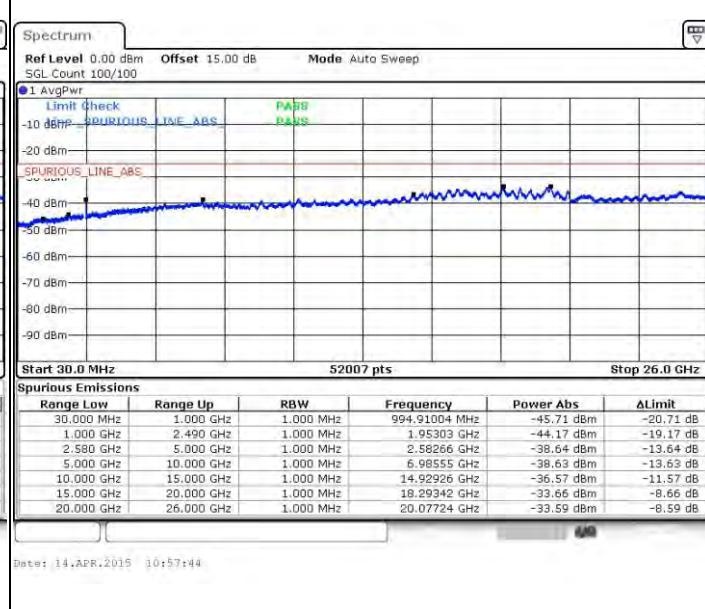
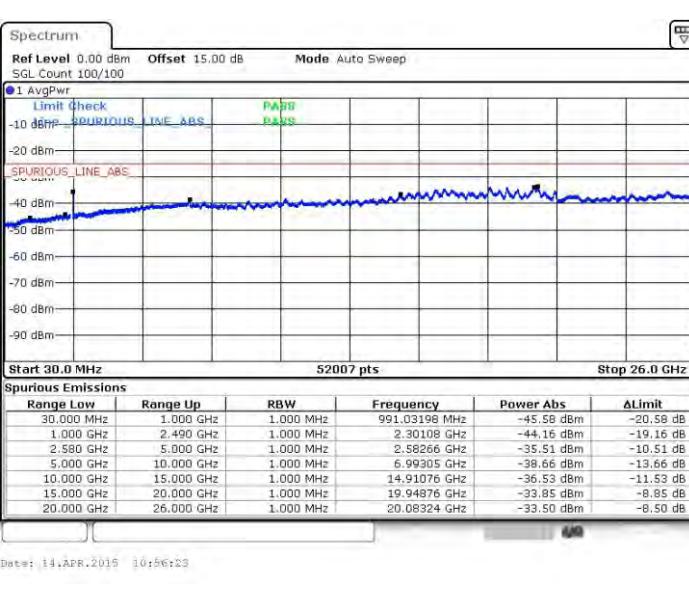




LTE Band7 / 15MHz

Highest Channel / QPSK

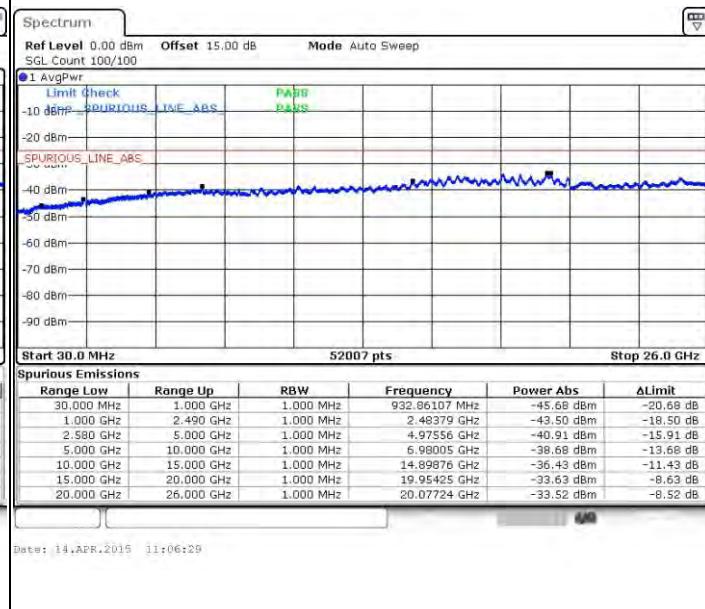
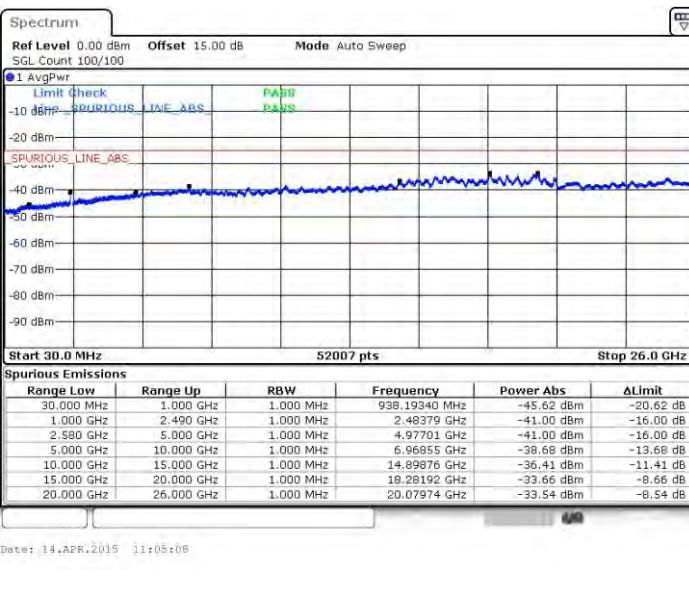
Highest Channel / 16QAM

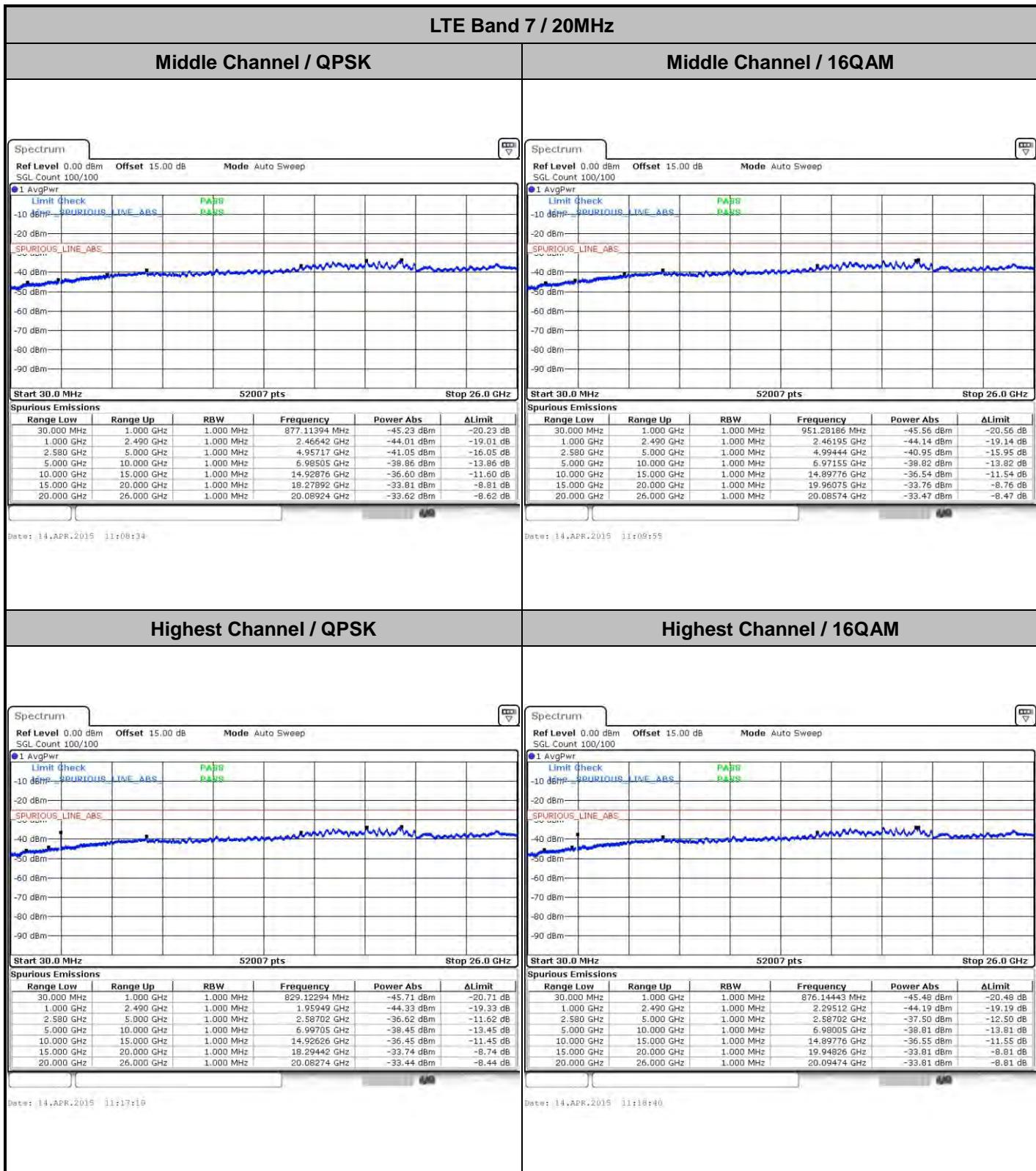


LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM







Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 17

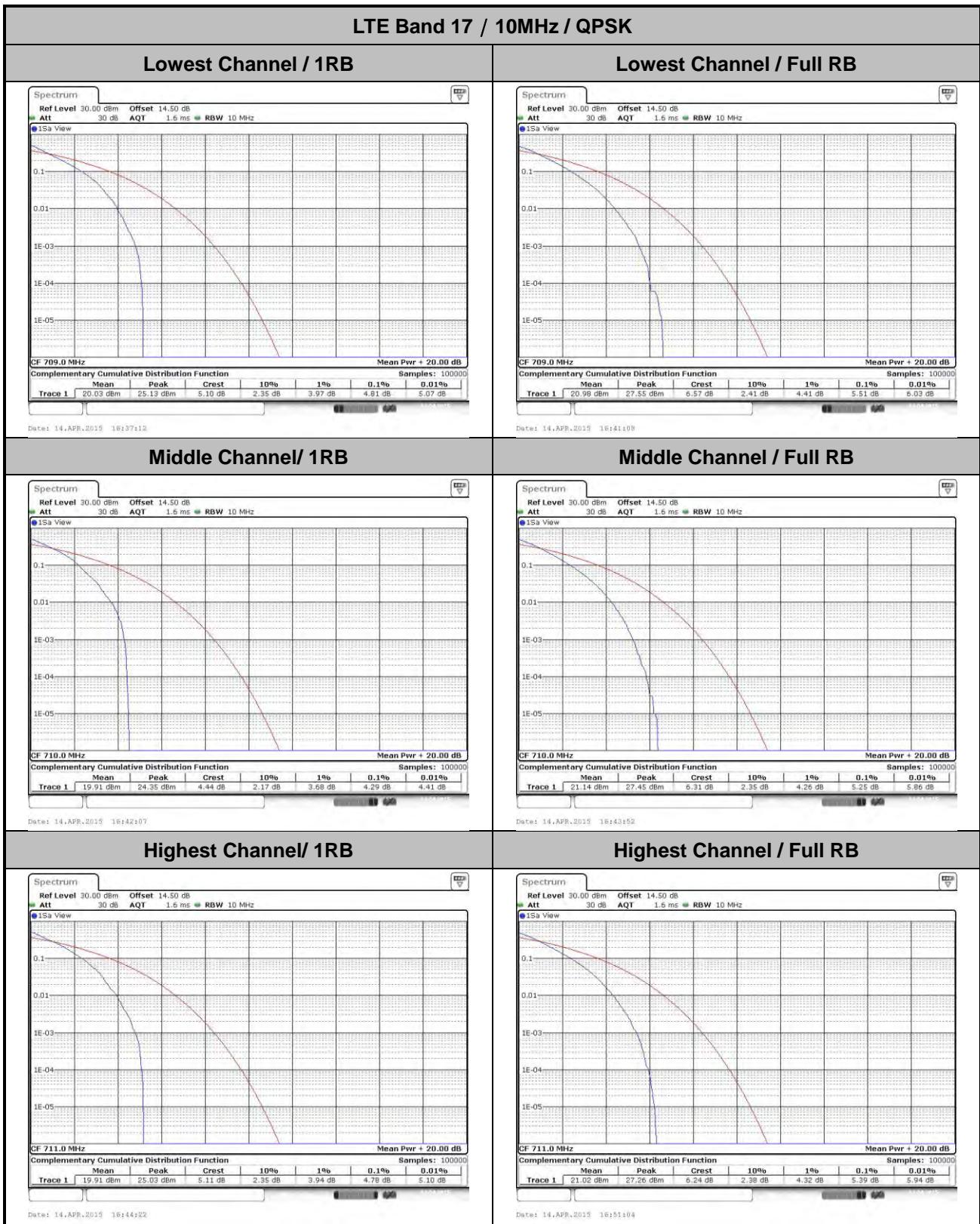
Conducted Output Power(Average power)

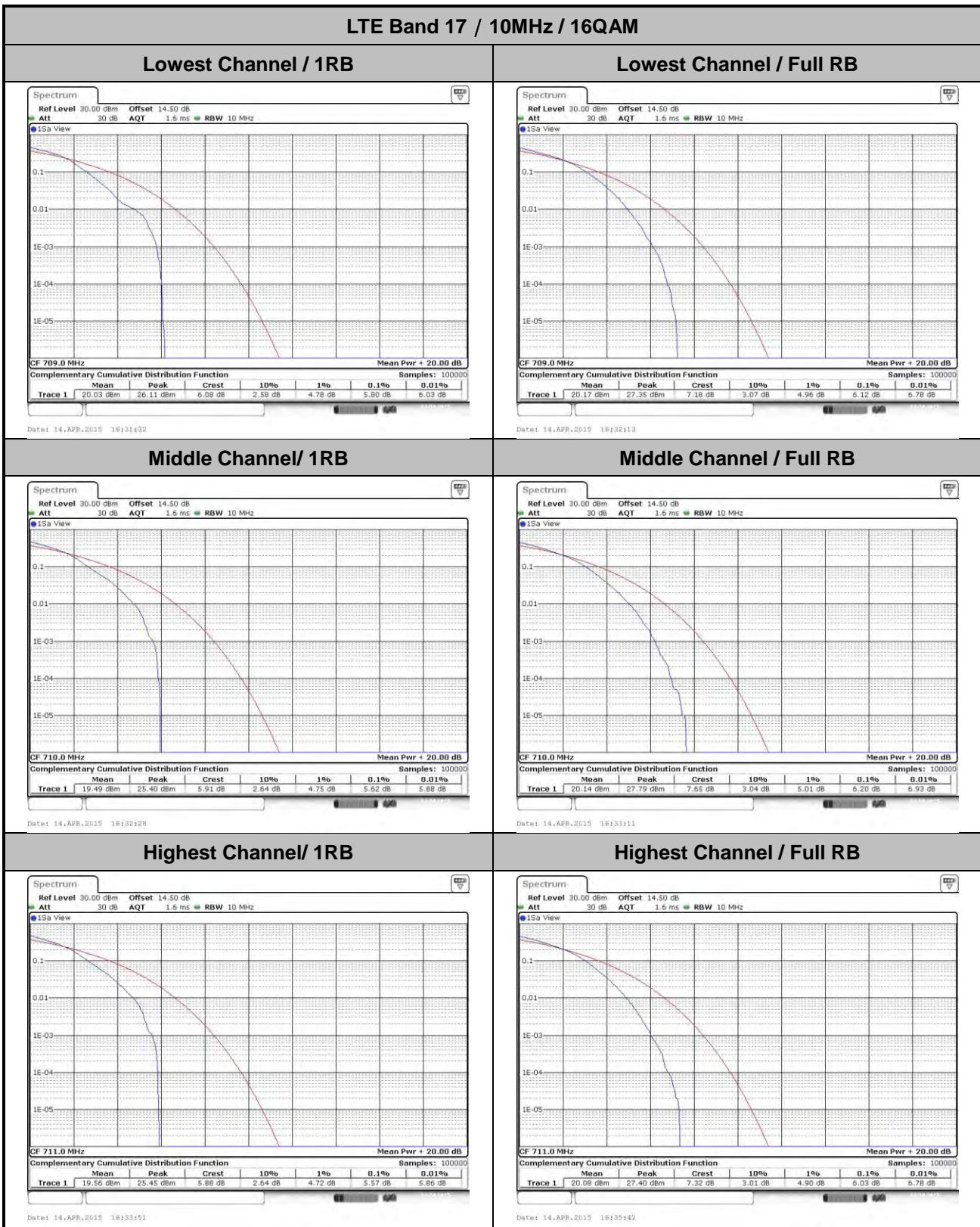
LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.66	22.46	22.46
	1	12		22.39	22.50	22.60
	1	24		22.55	22.71	22.56
	12	0		21.61	21.62	21.68
	12	6		21.57	21.61	21.73
	12	11		21.91	21.63	21.87
	25	0		21.58	21.51	21.64
	1	0		21.83	21.49	21.76
5	1	12	16-QAM	21.71	21.82	21.81
	1	24		21.69	21.85	21.87
	12	0		20.63	20.59	20.65
	12	6		20.62	20.66	20.72
	12	11		20.58	20.77	20.64
	25	0		20.51	20.55	20.53
	1	0		22.51	22.63	22.39
	1	24		22.48	22.54	22.58
10	1	49	QPSK	22.71	22.72	22.62
	25	0		21.40	21.49	21.51
	25	12		21.48	21.56	21.57
	25	24		21.60	21.64	21.58
	50	0		21.48	21.52	21.46
	1	0		21.82	21.49	21.45
	1	24		21.72	21.43	21.42
	1	49		21.92	21.55	21.71
10	25	0	16-QAM	20.47	20.37	20.40
	25	12		20.48	20.51	20.49
	25	24		20.63	20.51	20.51
	50	0		20.42	20.34	20.41



Peak-to-Average Ratio

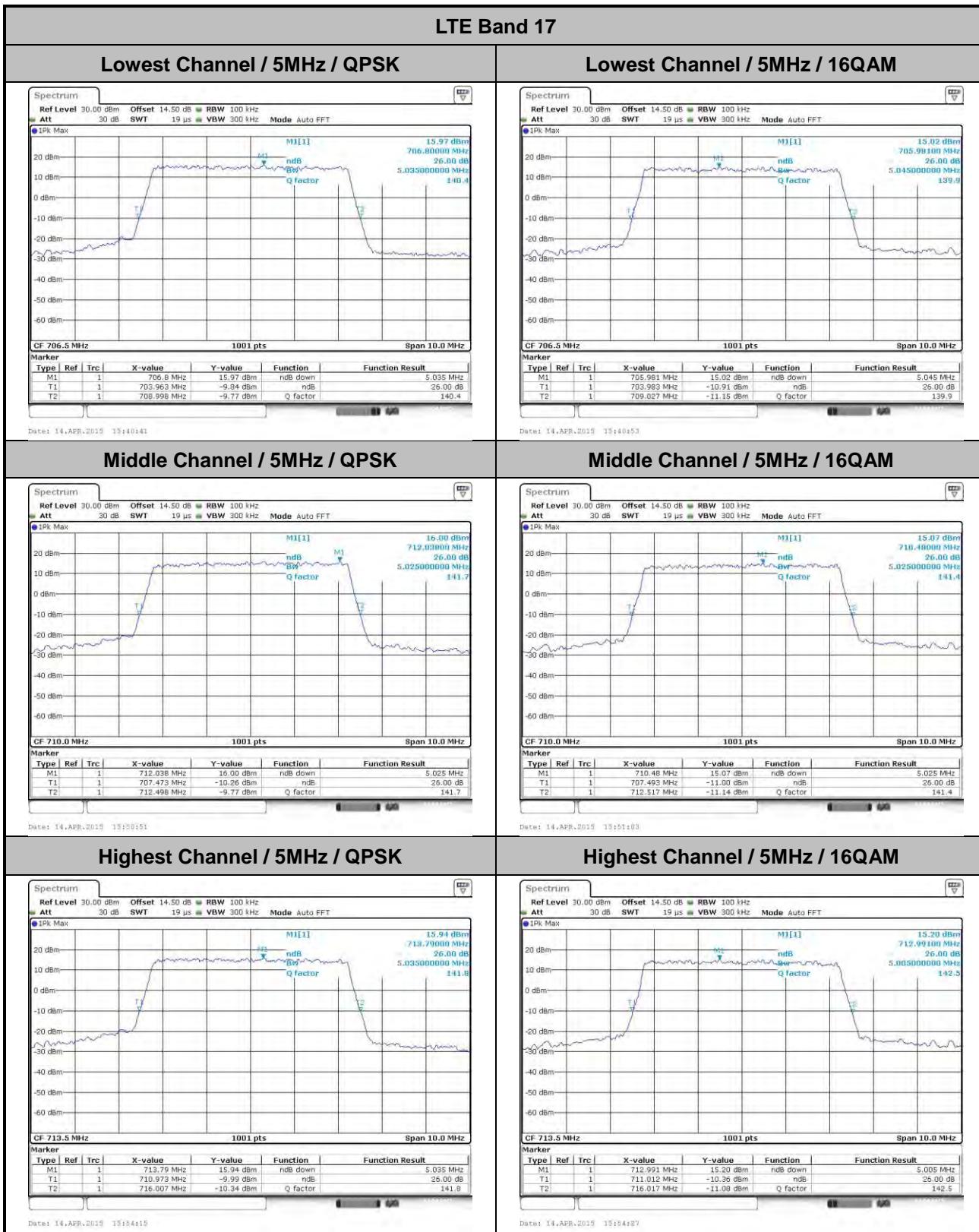
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.81	5.51	5.8	6.12	PASS
Middle CH	4.29	5.25	5.62	6.2	
Highest CH	4.78	5.39	5.57	6.03	

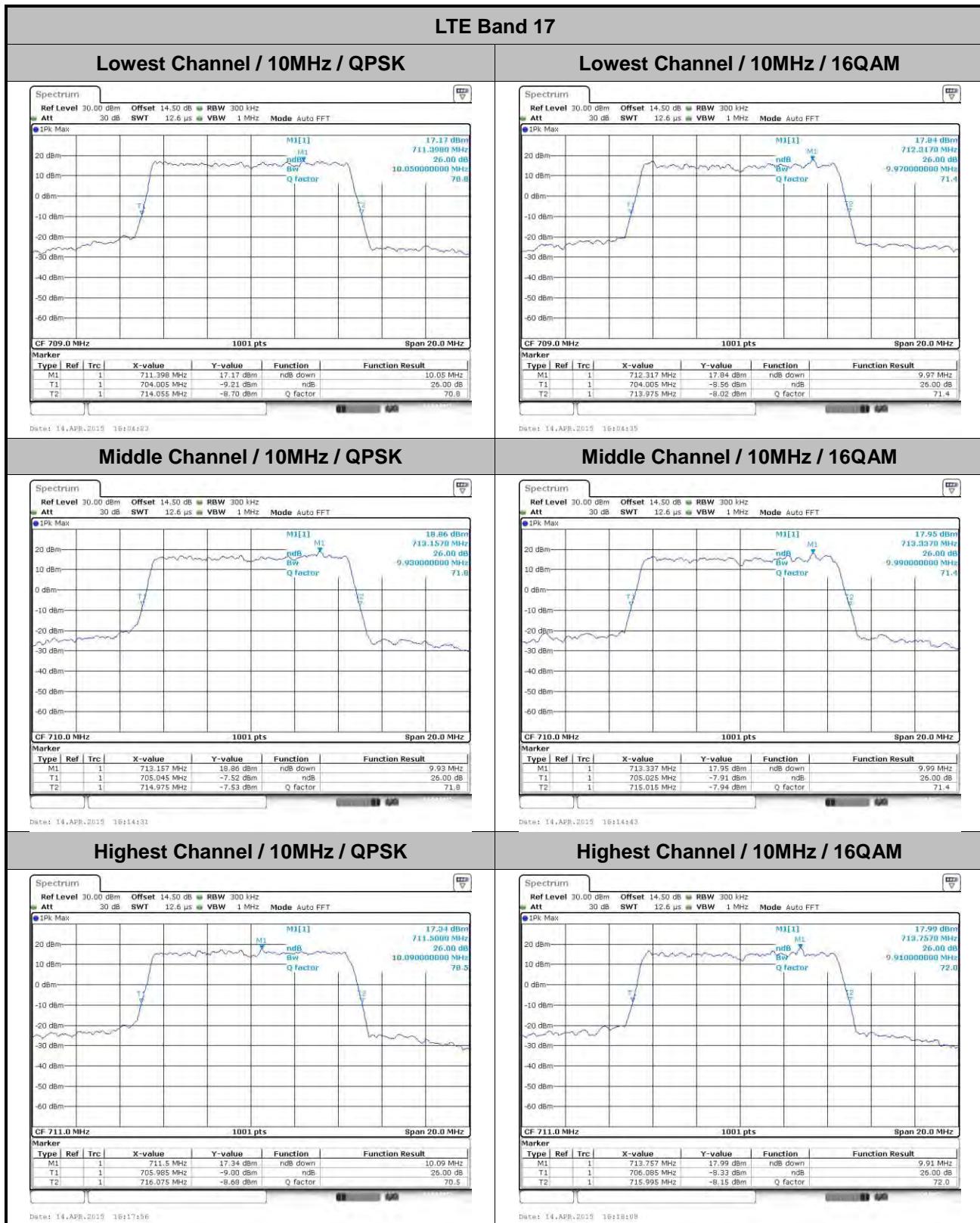




**26dB Bandwidth**

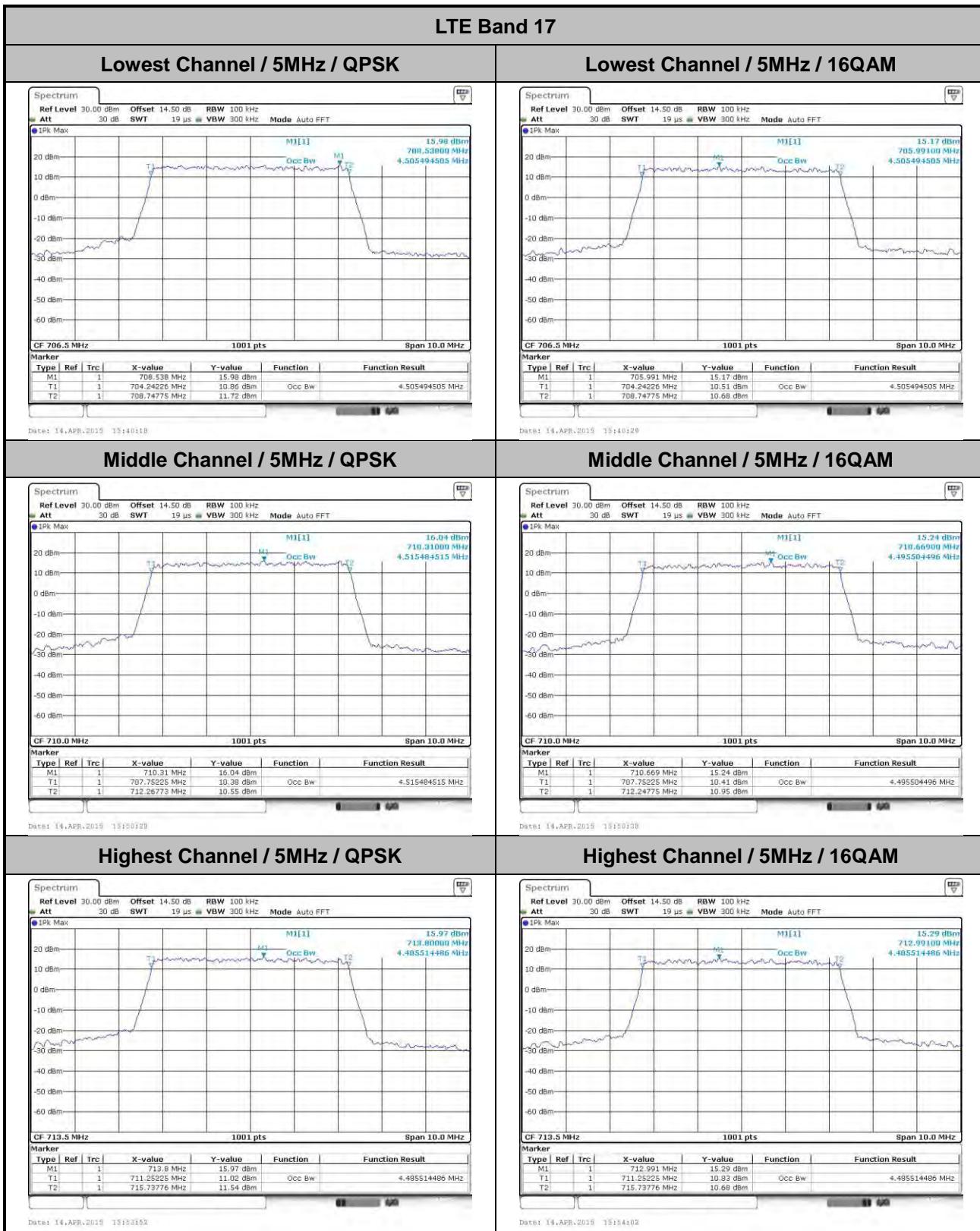
Mode	LTE Band 17 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.04	5.05	10.05	9.97	-	-	-	-
Middle CH	-	-	-	-	5.03	5.03	9.93	9.99	-	-	-	-
Highest CH	-	-	-	-	5.04	5.01	10.09	9.91	-	-	-	-

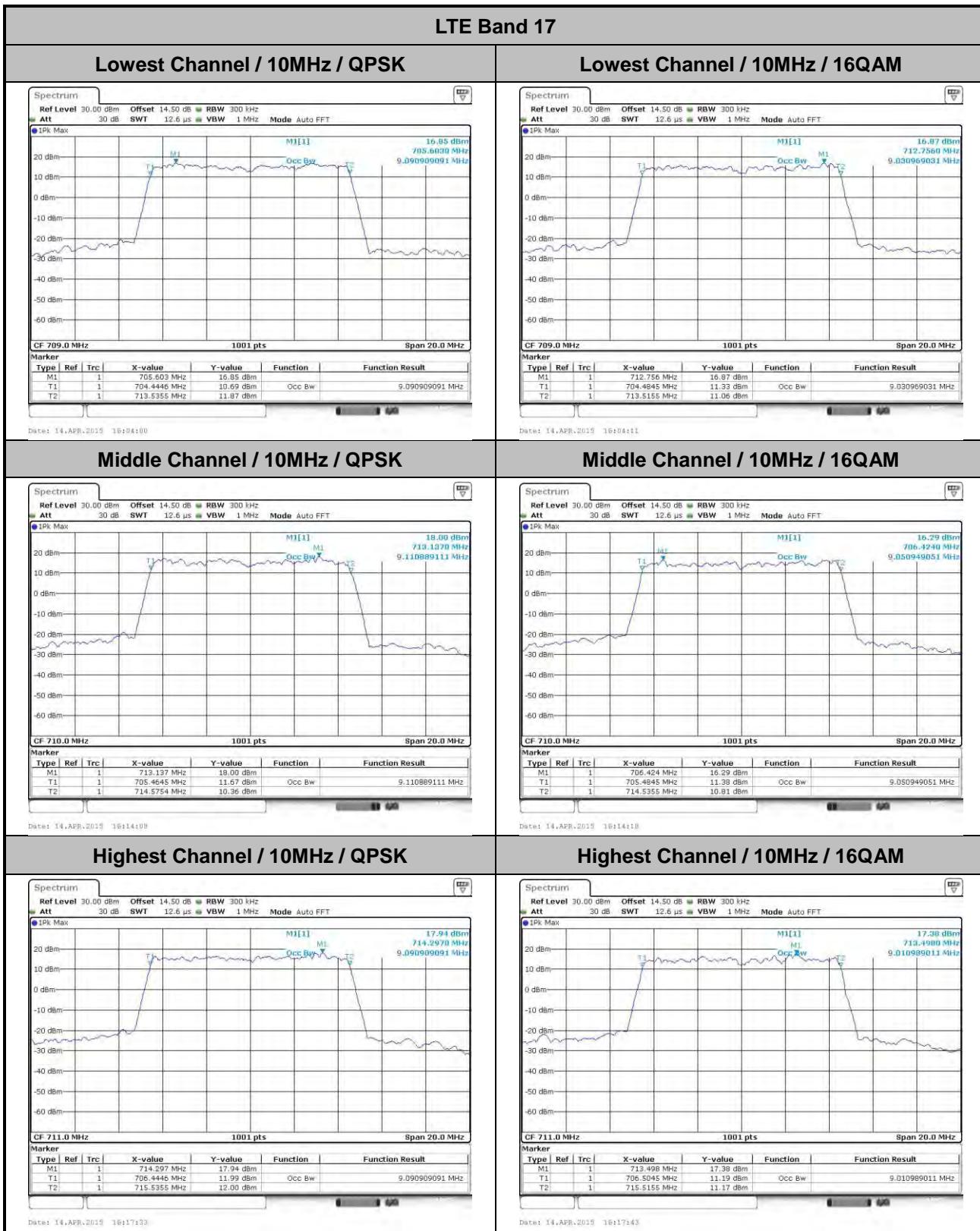




**Occupied Bandwidth**

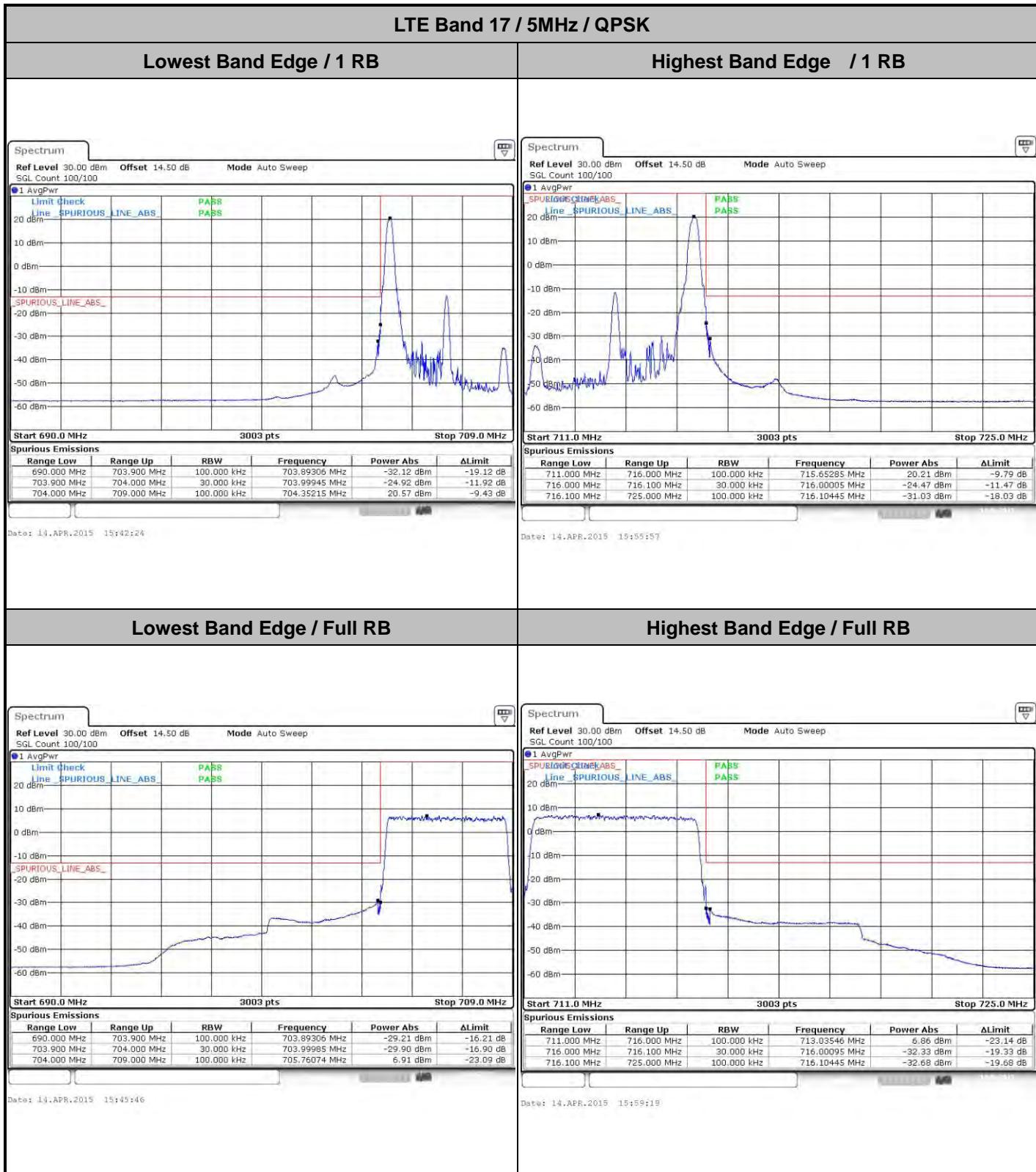
Mode	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.51	9.09	9.03	-	-	-	-
Middle CH	-	-	-	-	4.52	4.50	9.11	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	9.09	9.01	-	-	-	-

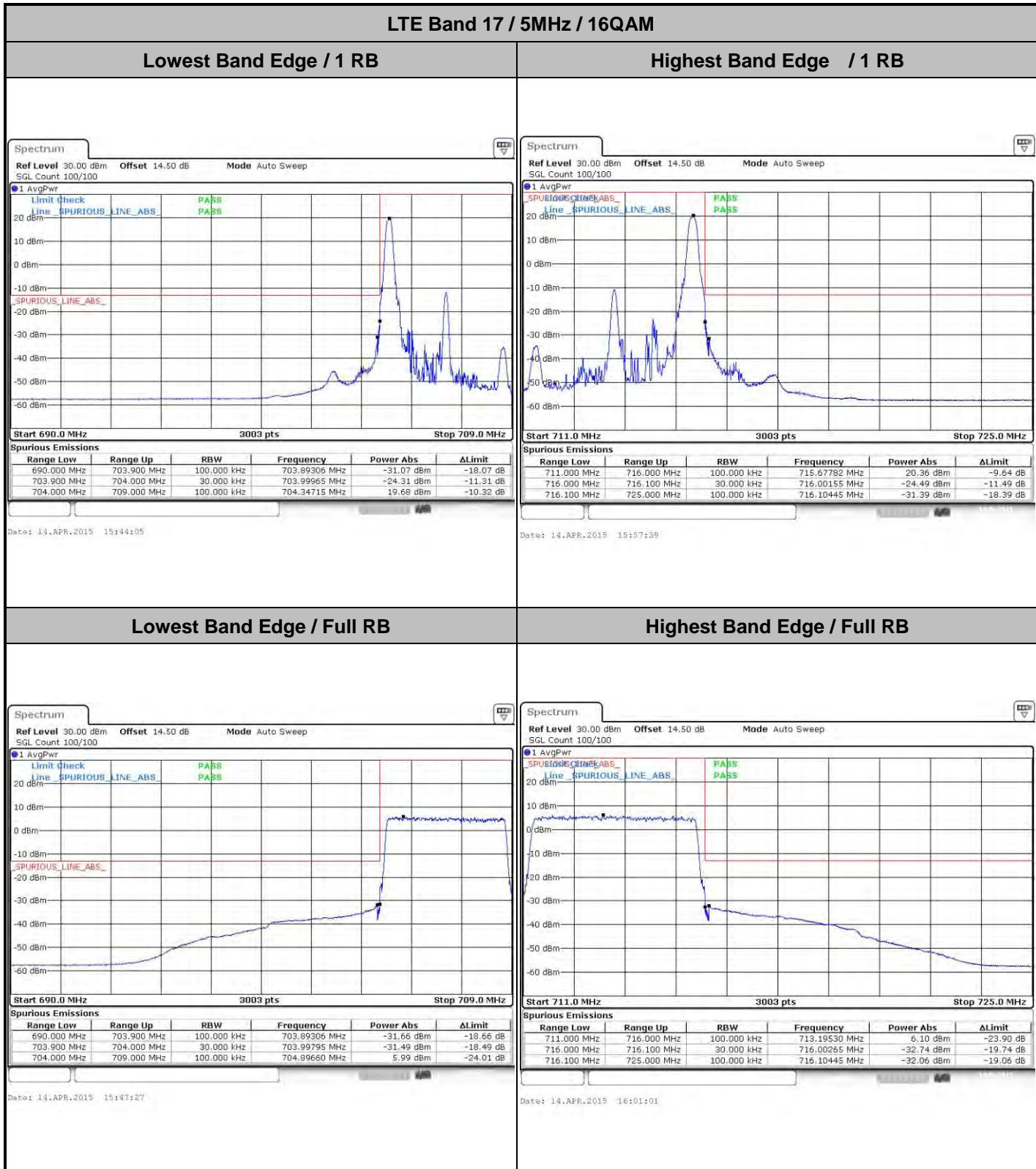


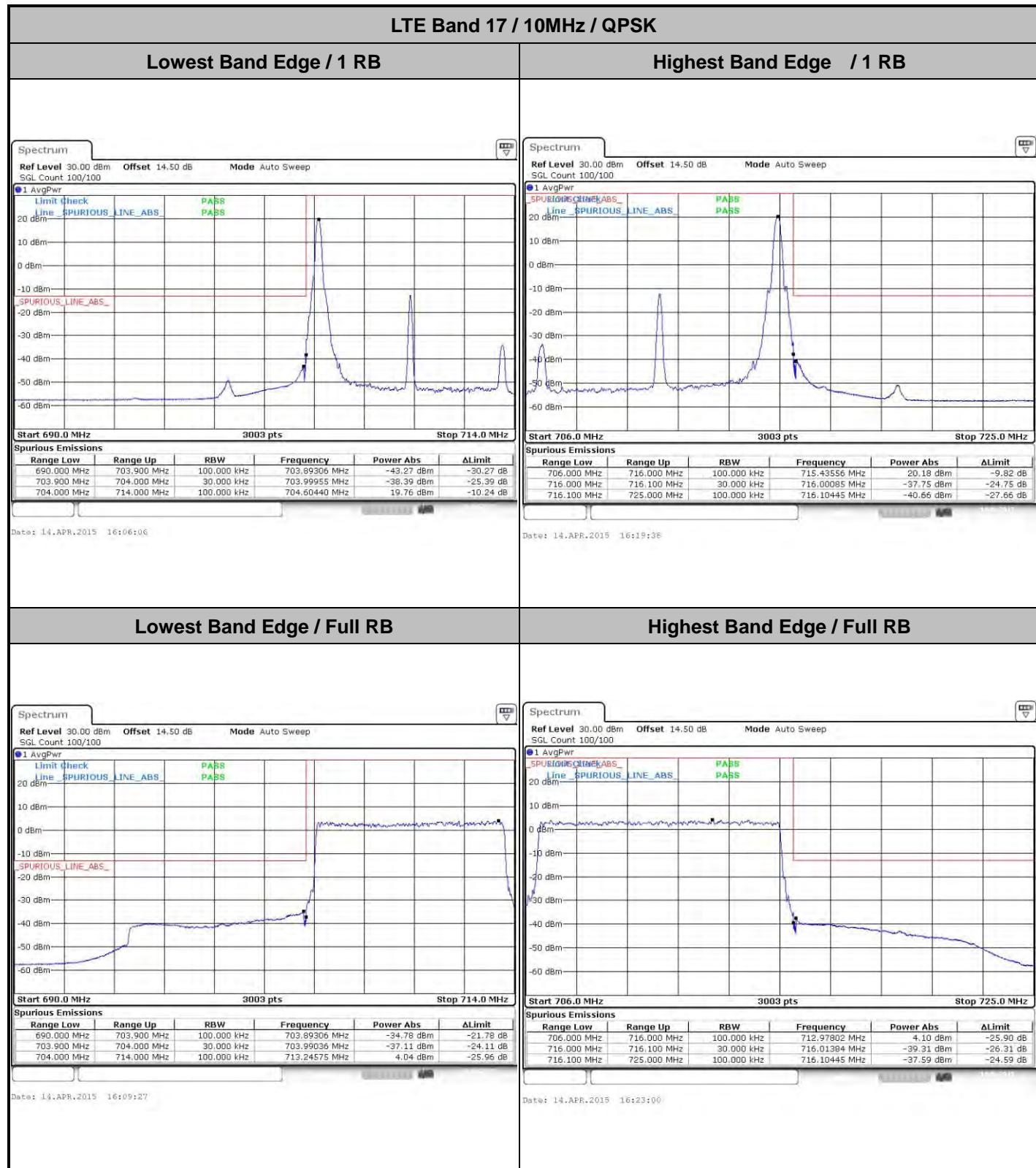


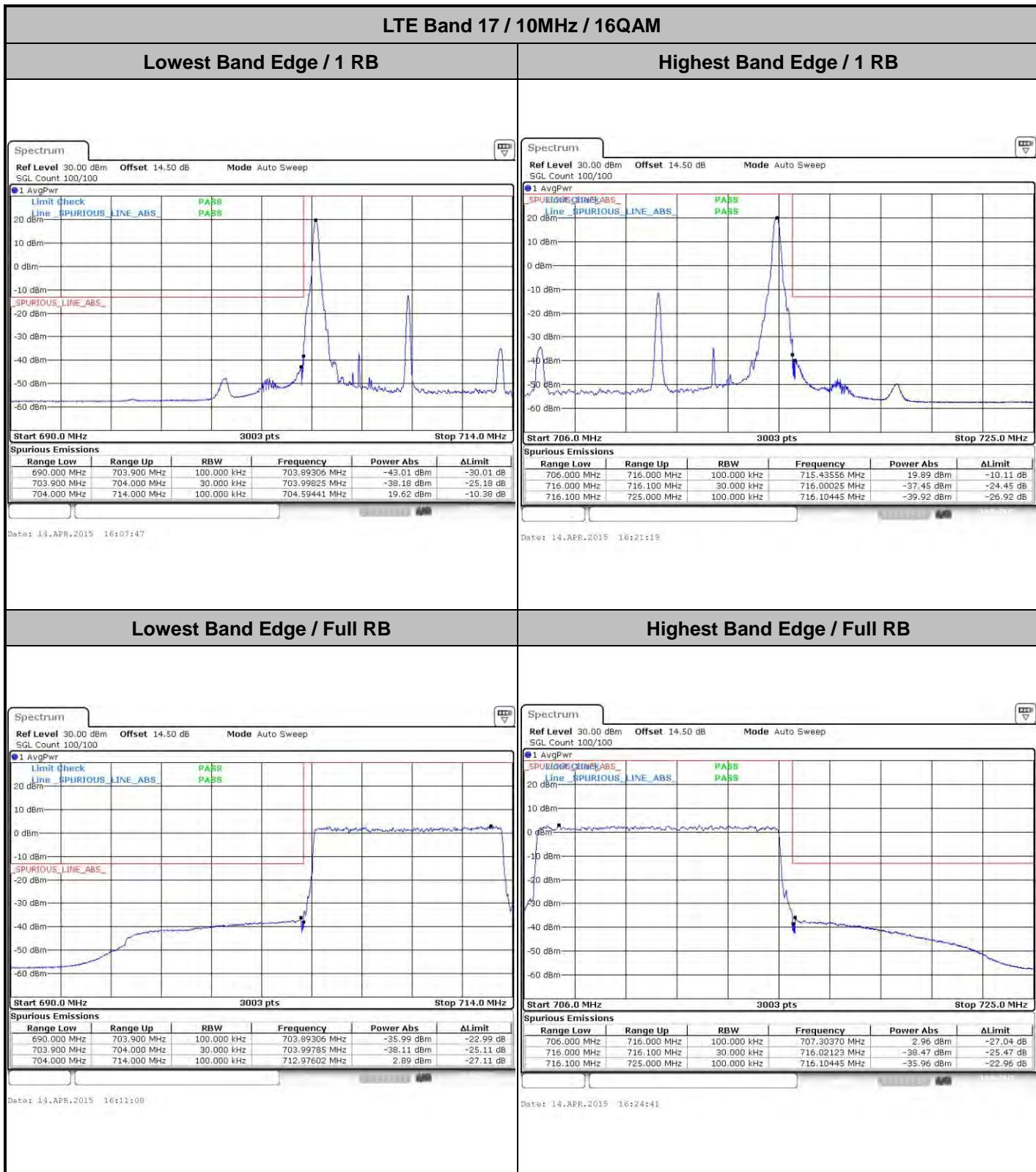


Conducted Band Edge









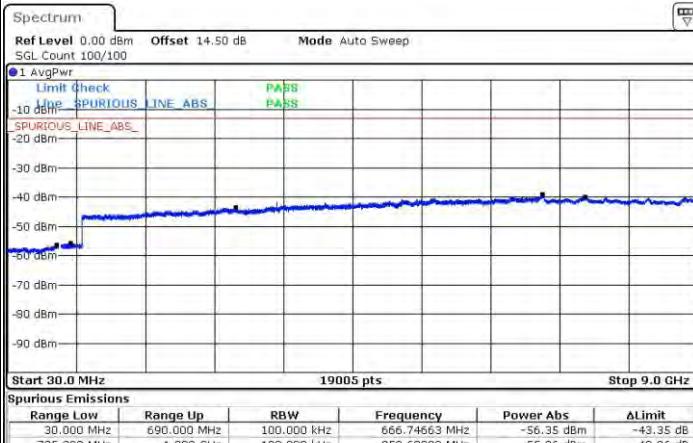
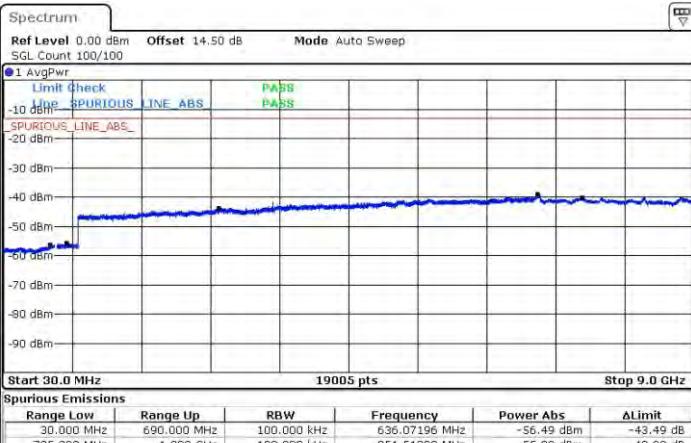


Conducted Spurious Emission

LTE Band 17 / 5MHz

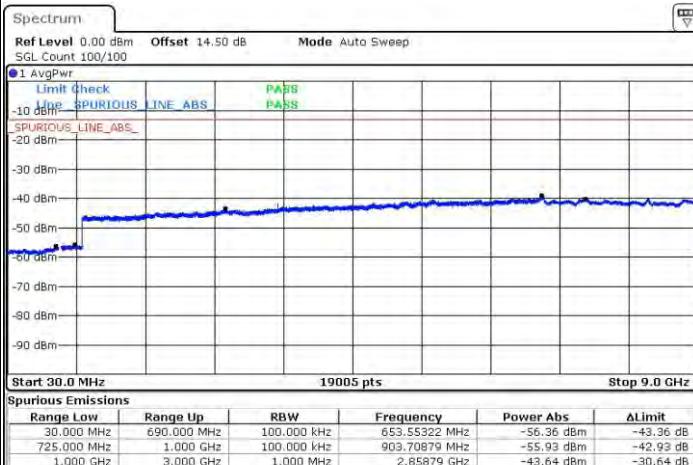
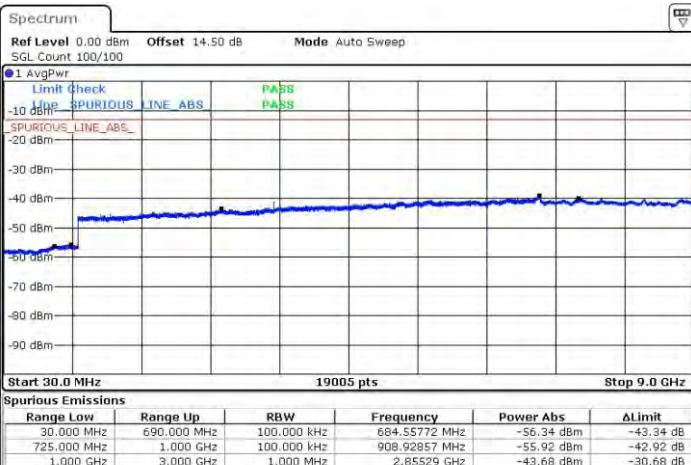
Lowest Channel / QPSK

Lowest Channel / 16QAM



Middle Channel / QPSK

Middle Channel / 16QAM

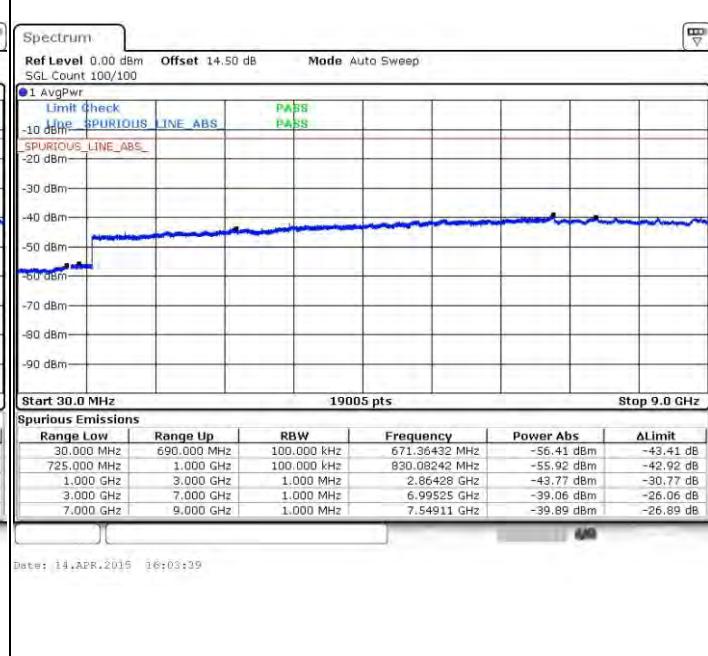
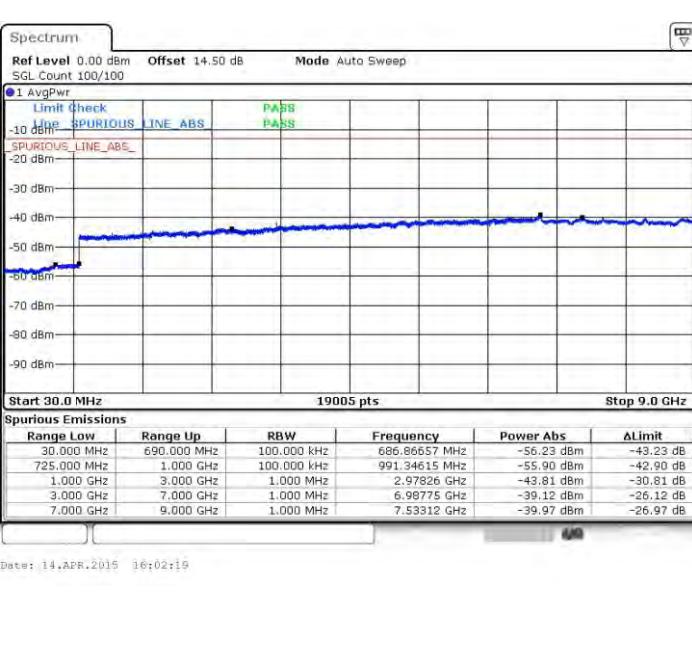




LTE Band 17 / 5MHz

Highest Channel / QPSK

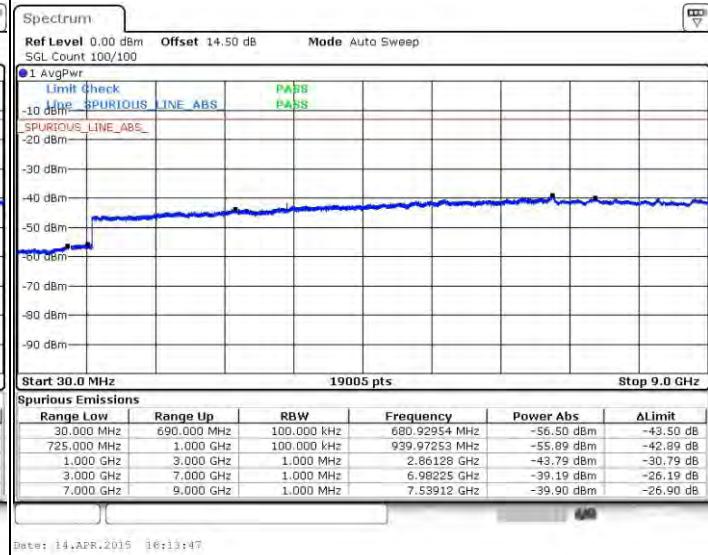
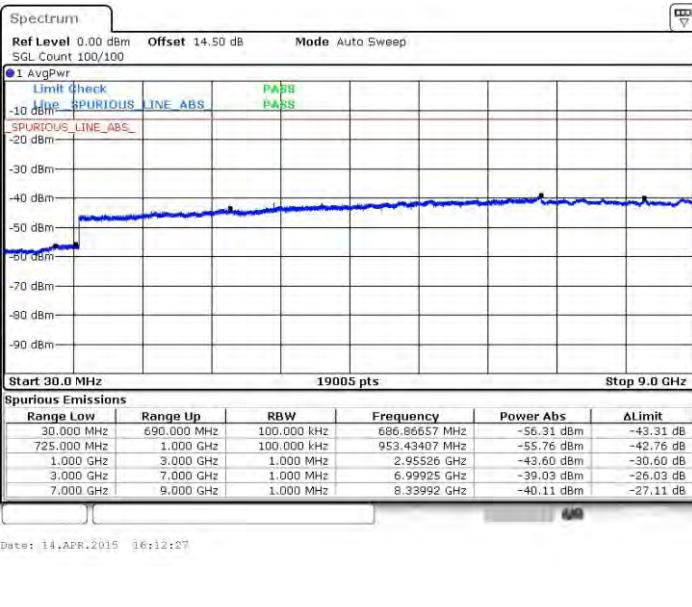
Highest Channel / 16QAM

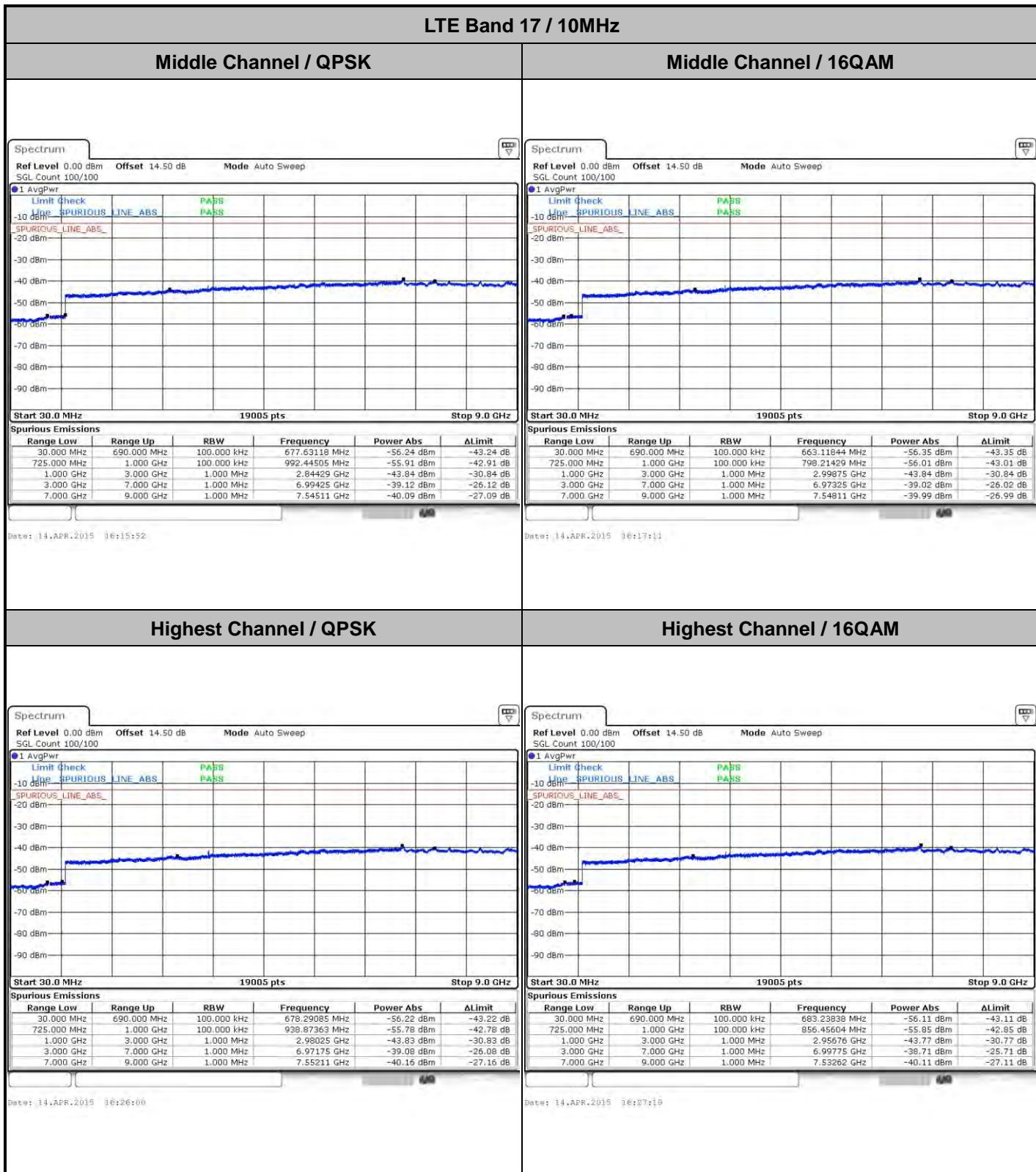


LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM







Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0155	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0127	
-30	Normal Voltage	0.0113	
20	Maximum Voltage	0.0141	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 4 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	5	16.89	0.0489	13.00	0.0200
Middle		3	0	17.24	0.0530	13.08	0.0203
Highest		3	0	17.60	0.0575	13.17	0.0207
Lowest	16QAM	3	1	16.06	0.0404	12.10	0.0162
Middle		3	1	16.14	0.0411	11.97	0.0157
Highest		3	1	16.57	0.0454	12.19	0.0166
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	16.60	0.0457	12.67	0.0185
Middle		1	14	17.25	0.0531	13.09	0.0204
Highest		1	14	17.55	0.0569	13.29	0.0213
Lowest	16QAM	1	14	15.64	0.0366	11.63	0.0146
Middle		1	7	16.22	0.0419	11.96	0.0157
Highest		1	14	16.74	0.0472	12.27	0.0169
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	16.53	0.0450	12.48	0.0177
Middle		1	12	17.20	0.0525	12.98	0.0199
Highest		1	12	17.65	0.0582	13.11	0.0205
Lowest	16QAM	1	12	15.66	0.0368	11.51	0.0142
Middle		1	0	16.21	0.0418	11.93	0.0156
Highest		1	0	16.78	0.0476	12.42	0.0175
Limit	EIRP < 1W			Result		PASS	

LTE Band 4/ 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	16.57	0.0454	12.63	0.0183
Middle		1	0	17.12	0.0515	12.96	0.0198
Highest		1	24	17.64	0.0581	13.22	0.0210
Lowest	16QAM	1	0	15.64	0.0366	11.88	0.0154
Middle		1	49	16.17	0.0414	12.22	0.0167
Highest		1	24	16.66	0.0463	12.64	0.0184
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	16.83	0.0482	13.05	0.0202
Middle		1	0	17.19	0.0524	13.31	0.0214
Highest		1	37	17.55	0.0569	13.35	0.0216
Lowest	16QAM	1	37	15.86	0.0385	12.19	0.0166
Middle		1	0	16.13	0.0410	12.22	0.0167
Highest		1	0	16.41	0.0438	12.30	0.0170
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	16.55	0.0452	12.87	0.0194
Middle		1	0	16.87	0.0486	13.17	0.0207
Highest		1	0	17.16	0.0520	13.12	0.0205
Lowest	16QAM	1	0	15.59	0.0362	11.84	0.0153
Middle		1	0	15.90	0.0389	12.18	0.0165
Highest		1	0	16.21	0.0418	12.22	0.0167
Limit	EIRP < 1W			Result		PASS	

LTE Band 7 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	15.27	0.0337	9.08	0.0081
Middle		1	0	15.33	0.0341	9.15	0.0082
Highest		1	24	15.52	0.0356	9.99	0.0100
Lowest	16QAM	1	12	14.17	0.0261	7.96	0.0063
Middle		1	24	14.41	0.0276	8.10	0.0065
Highest		1	0	14.48	0.0281	8.83	0.0076
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	15.14	0.0327	8.70	0.0074
Middle		1	49	15.33	0.0341	9.06	0.0081
Highest		1	49	15.54	0.0358	9.95	0.0099
Lowest	16QAM	1	24	14.08	0.0256	7.86	0.0061
Middle		1	24	14.33	0.0271	8.02	0.0063
Highest		1	24	14.31	0.0270	8.98	0.0079
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	15.13	0.0326	8.77	0.0075
Middle		1	74	15.37	0.0344	9.26	0.0084
Highest		1	0	15.46	0.0352	9.52	0.0090
Lowest	16QAM	1	37	14.15	0.0260	7.97	0.0063
Middle		1	74	14.34	0.0272	8.20	0.0066
Highest		1	74	14.38	0.0274	8.95	0.0079
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	14.99	0.0316	8.48	0.0070
Middle		1	99	15.42	0.0348	9.00	0.0079
Highest		1	99	15.42	0.0348	9.98	0.0100
Lowest	16QAM	1	0	14.23	0.0265	8.06	0.0064
Middle		1	49	14.41	0.0276	8.13	0.0065
Highest		1	99	14.44	0.0278	8.98	0.0079
Limit	EIRP < 2W			Result		PASS	

LTE Band 17 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	13.65	0.0232	2.92	0.0020
Middle		1	24	13.97	0.0249	3.18	0.0021
Highest		1	12	13.95	0.0248	3.15	0.0021
Lowest	16QAM	1	0	12.63	0.0183	2.07	0.0016
Middle		1	24	12.88	0.0194	2.20	0.0017
Highest		1	24	13.17	0.0207	2.32	0.0017
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	13.85	0.0243	3.11	0.0020
Middle		1	49	13.84	0.0242	3.16	0.0021
Highest		1	49	14.08	0.0256	3.36	0.0022
Lowest	16QAM	1	49	12.88	0.0194	2.30	0.0017
Middle		1	49	12.88	0.0194	2.21	0.0017
Highest		1	49	13.08	0.0203	2.25	0.0017
Limit	ERP < 3W			Result		PASS	



Radiated Spurious Emission

LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	3420.32	-47.20	-13	-34.20	-59.00	-58.99	0.81	12.60	H
	5130.48	-46.27	-13	-33.27	-62.14	-58.02	0.95	12.70	H
	6840.64	-51.34	-13	-38.34	-67.97	-61.91	1.13	11.70	H
	3420.32	-49.82	-13	-36.82	-60.05	-61.61	0.81	12.6	V
	5130.48	-55.61	-13	-42.61	-68.21	-67.36	0.95	12.7	V
	6840.64	-49.70	-13	-36.70	-66.88	-60.27	1.13	11.7	V
Middle	3463.74	-49.98	-13	-36.98	-61.78	-61.77	0.81	12.60	H
	5195.61	-51.16	-13	-38.16	-67.03	-62.91	0.95	12.70	H
	6927.48	-50.81	-13	-37.81	-67.44	-61.38	1.13	11.70	H
	3463.74	-51.74	-13	-38.74	-61.97	-63.53	0.81	12.6	V
	5195.61	-55.54	-13	-42.54	-68.14	-67.29	0.95	12.7	V
	6927.48	-50.28	-13	-37.28	-67.46	-60.85	1.13	11.7	V
Highest	3507.52	-47.88	-13	-34.88	-59.68	-59.67	0.81	12.60	H
	5261.28	-38.26	-13	-25.26	-54.13	-50.01	0.95	12.70	H
	7015.04	-45.46	-13	-32.46	-62.09	-56.03	1.13	11.70	H
	3507.52	-50.39	-13	-37.39	-60.62	-62.18	0.81	12.6	V
	5261.28	-51.73	-13	-38.73	-64.33	-63.48	0.95	12.7	V
	7015.04	-49.44	-13	-36.44	-66.62	-60.01	1.13	11.7	V

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



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
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	3420.48	-47.51	-13	-34.51	-59.31	-59.30	0.81	12.60	H
	5130.72	-48.90	-13	-35.90	-64.77	-60.65	0.95	12.70	H
	6840.96	-50.45	-13	-37.45	-67.08	-61.02	1.13	11.70	H
	3420.48	-49.71	-13	-36.71	-59.94	-61.50	0.81	12.6	V
	5130.72	-55.45	-13	-42.45	-68.05	-67.20	0.95	12.7	V
	6840.96	-50.39	-13	-37.39	-67.57	-60.96	1.13	11.7	V
Middle	3462.3	-54.54	-13	-41.54	-66.34	-66.33	0.81	12.60	H
	5193.45	-45.60	-13	-32.60	-61.47	-57.35	0.95	12.70	H
	6924.6	-51.54	-13	-38.54	-68.17	-62.11	1.13	11.70	H
	3462.3	-56.27	-13	-43.27	-66.5	-68.06	0.81	12.6	V
	5193.45	-55.49	-13	-42.49	-68.09	-67.24	0.95	12.7	V
	6924.6	-50.98	-13	-37.98	-68.16	-61.55	1.13	11.7	V
Highest	3504.48	-46.66	-13	-33.66	-58.46	-58.45	0.81	12.60	H
	5256.72	-46.60	-13	-33.60	-62.47	-58.35	0.95	12.70	H
	7008.96	-47.60	-13	-34.60	-64.23	-58.17	1.13	11.70	H
	3504.48	-50.30	-13	-37.30	-60.53	-62.09	0.81	12.6	V
	5256.72	-53.28	-13	-40.28	-65.88	-65.03	0.95	12.7	V
	7008.96	-48.27	-13	-35.27	-65.45	-58.84	1.13	11.7	V

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



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
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	3420.68	-51.24	-13	-38.24	-63.04	-63.03	0.81	12.60	H
	5131.02	-35.16	-13	-22.16	-51.85	-46.91	0.95	12.70	H
	6841.36	-50.56	-13	-37.56	-67.19	-61.13	1.13	11.70	H
	3420.68	-52.39	-13	-39.39	-62.62	-64.18	0.81	12.6	V
	5131.02	-34.91	-13	-21.91	-51.77	-46.66	0.95	12.7	V
	6841.36	-50.93	-13	-37.93	-68.11	-61.50	1.13	11.7	V
Middle	3460.68	-52.38	-13	-39.38	-64.18	-64.17	0.81	12.60	H
	5191.02	-41.69	-13	-28.69	-57.56	-53.44	0.95	12.70	H
	6921.36	-50.65	-13	-37.65	-67.28	-61.22	1.13	11.70	H
	3460.68	-54.59	-13	-41.59	-64.82	-66.38	0.81	12.6	V
	5191.02	-35.06	-13	-22.06	-51.9	-46.81	0.95	12.7	V
	6921.36	-50.24	-13	-37.24	-67.42	-60.81	1.13	11.7	V
Highest	3500.68	-52.38	-13	-39.38	-64.18	-64.17	0.81	12.60	H
	5251.02	-39.45	-13	-26.45	-55.32	-51.20	0.95	12.70	H
	7001.36	-48.69	-13	-35.69	-65.32	-59.26	1.13	11.70	H
	3500.68	-53.17	-13	-40.17	-63.4	-64.96	0.81	12.6	V
	5251.02	-42.65	-13	-29.65	-55.25	-54.40	0.95	12.7	V
	7001.36	-49.21	-13	-36.21	-66.39	-59.78	1.13	11.7	V

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



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
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	3421.18	-49.22	-13	-36.22	-61.02	-61.01	0.81	12.60	H
	5131.77	-39.78	-13	-26.78	-55.65	-51.53	0.95	12.70	H
	6842.36	-51.03	-13	-38.03	-67.66	-61.60	1.13	11.70	H
	3421.18	-52.88	-13	-39.88	-63.11	-64.67	0.81	12.6	V
	5131.77	-41.37	-13	-28.37	-56.66	-53.12	0.95	12.7	V
	6842.36	-50.58	-13	-37.58	-67.76	-61.15	1.13	11.7	V
Middle	3456.18	-51.36	-13	-38.36	-63.16	-63.15	0.81	12.60	H
	5184.27	-38.93	-13	-25.93	-54.80	-50.68	0.95	12.70	H
	6912.36	-51.20	-13	-38.20	-67.83	-61.77	1.13	11.70	H
	3456.18	-53.24	-13	-40.24	-63.47	-65.03	0.81	12.6	V
	5184.27	-40.00	-13	-27.00	-56.33	-51.75	0.95	12.7	V
	6912.36	-49.89	-13	-36.89	-67.07	-60.46	1.13	11.7	V
Highest	3491.18	-50.14	-13	-37.14	-61.94	-61.93	0.81	12.60	H
	5236.77	-40.55	-13	-27.55	-56.42	-52.30	0.95	12.70	H
	6982.36	-48.74	-13	-35.74	-65.37	-59.31	1.13	11.70	H
	3491.18	-52.52	-13	-39.52	-62.75	-64.31	0.81	12.6	V
	5236.77	-41.44	-13	-28.44	-56.72	-53.19	0.95	12.7	V
	6982.36	-49.58	-13	-36.58	-66.76	-60.15	1.13	11.7	V

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



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
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	3421.68	-44.41	-13	-31.41	-56.21	-56.20	0.81	12.60	H
	5132.52	-39.43	-13	-26.43	-55.30	-51.18	0.95	12.70	H
	6843.36	-50.66	-13	-37.66	-67.29	-61.23	1.13	11.70	H
	3421.68	-47.53	-13	-34.53	-57.76	-59.32	0.81	12.6	V
	5132.52	-37.87	-13	-24.87	-54.45	-49.62	0.95	12.7	V
	6843.36	-50.61	-13	-37.61	-67.79	-61.18	1.13	11.7	V
Middle	3451.68	-50.61	-13	-37.61	-62.41	-62.40	0.81	12.60	H
	5177.52	-52.76	-13	-39.76	-68.63	-64.51	0.95	12.70	H
	6903.36	-51.51	-13	-38.51	-68.14	-62.08	1.13	11.70	H
	3451.68	-51.59	-13	-38.59	-61.82	-63.38	0.81	12.6	V
	5177.52	-56.36	-13	-43.36	-68.96	-68.11	0.95	12.7	V
	6903.36	-51.42	-13	-38.42	-68.6	-61.99	1.13	11.7	V
Highest	3481.68	-46.17	-13	-33.17	-57.97	-57.96	0.81	12.60	H
	5222.52	-36.88	-13	-23.88	-53.08	-48.63	0.95	12.70	H
	6963.36	-47.44	-13	-34.44	-64.07	-58.01	1.13	11.70	H
	3481.68	-48.04	-13	-35.04	-58.27	-59.83	0.81	12.6	V
	5222.52	-40.83	-13	-27.83	-56.28	-52.58	0.95	12.7	V
	6963.36	-49.23	-13	-36.23	-66.41	-59.80	1.13	11.7	V

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



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
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	3422.18	-47.33	-13	-34.33	-59.13	-59.12	0.81	12.60	H
	5133.27	-43.60	-13	-30.60	-59.47	-55.35	0.95	12.70	H
	6844.36	-50.72	-13	-37.72	-67.35	-61.29	1.13	11.70	H
	3422.18	-48.44	-13	-35.44	-58.67	-60.23	0.81	12.6	V
	5133.27	-54.99	-13	-41.99	-67.59	-66.74	0.95	12.7	V
	6844.36	-50.84	-13	-37.84	-68.02	-61.41	1.13	11.7	V
Middle	3447.18	-49.45	-13	-36.45	-61.25	-61.24	0.81	12.60	H
	5170.77	-39.43	-13	-26.43	-55.30	-51.18	0.95	12.70	H
	6894.36	-51.39	-13	-38.39	-68.02	-61.96	1.13	11.70	H
	3447.18	-51.62	-13	-38.62	-61.85	-63.41	0.81	12.6	V
	5170.77	-38.21	-13	-25.21	-54.67	-49.96	0.95	12.7	V
	6894.36	-50.46	-13	-37.46	-67.64	-61.03	1.13	11.7	V
Highest	3472.18	-48.60	-13	-35.60	-60.40	-60.39	0.81	12.60	H
	5208.27	-47.77	-13	-34.77	-63.64	-59.52	0.95	12.70	H
	6944.36	-47.09	-13	-34.09	-63.72	-57.66	1.13	11.70	H
	3472.18	-51.57	-13	-38.57	-61.8	-63.36	0.81	12.6	V
	5208.27	-51.79	-13	-38.79	-64.39	-63.54	0.95	12.7	V
	6944.36	-49.50	-13	-36.50	-66.68	-60.07	1.13	11.7	V

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



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0									
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	5000.68	-51.14	-25	-26.14	-66.02	-62.89	0.95	12.70	H
	7501.02	-46.22	-25	-21.22	-67.31	-56.46	1.46	11.70	H
	10001.36	-45.11	-25	-20.11	-70.29	-55.90	1.31	12.10	H
	5000.68	-50.68	-25	-25.68	-65.81	-62.4256	0.95	12.70	V
	7501.02	-39.72	-25	-14.72	-60.47	-49.9556	1.46	11.70	V
	10001.36	-46.92	-25	-21.92	-69.78	-57.7056	1.31	12.10	V
Middle	5065.68	-52.21	-25	-27.21	-67.09	-63.96	0.95	12.70	H
	7598.52	-45.37	-25	-20.37	-66.46	-55.61	1.46	11.70	H
	10131.36	-45.25	-25	-20.25	-70.43	-56.04	1.31	12.10	H
	5065.68	-51.52	-25	-26.52	-66.65	-63.2656	0.95	12.70	V
	7598.52	-35.09	-25	-10.09	-55.84	-45.3256	1.46	11.70	V
	10131.36	-47.69	-25	-22.69	-70.55	-58.4756	1.31	12.10	V
Highest	5130.68	-53.00	-25	-28.00	-67.88	-64.75	0.95	12.70	H
	7696.02	-45.90	-25	-20.90	-66.99	-56.14	1.46	11.70	H
	10261.36	-44.20	-25	-19.20	-69.38	-54.99	1.31	12.10	H
	5130.68	-52.42	-25	-27.42	-67.55	-64.1656	0.95	12.70	V
	7696.02	-38.78	-25	-13.78	-59.53	-49.0156	1.46	11.70	V
	10261.36	-47.18	-25	-22.18	-70.04	-57.9656	1.31	12.10	V

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



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0									
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	5001.18	-51.59	-25	-26.59	-66.47	-63.34	0.95	12.70	H
	7501.77	-46.68	-25	-21.68	-67.77	-56.92	1.46	11.70	H
	10002.36	-45.18	-25	-20.18	-70.36	-55.97	1.31	12.10	H
	5001.18	-50.95	-25	-25.95	-66.08	-62.6956	0.95	12.70	V
	7501.77	-40.51	-25	-15.51	-61.26	-50.7456	1.46	11.70	V
	10002.36	-47.54	-25	-22.54	-70.4	-58.3256	1.31	12.10	V
Middle	5061.18	-51.21	-25	-26.21	-66.09	-62.96	0.95	12.70	H
	7591.77	-45.48	-25	-20.48	-66.57	-55.72	1.46	11.70	H
	10122.36	-44.81	-25	-19.81	-69.99	-55.60	1.31	12.10	H
	5061.18	-51.65	-25	-26.65	-66.78	-63.3956	0.95	12.70	V
	7591.77	-40.07	-25	-15.07	-60.82	-50.3056	1.46	11.70	V
	10122.36	-47.31	-25	-22.31	-70.17	-58.0956	1.31	12.10	V
Highest	5121.18	-53.26	-25	-28.26	-68.14	-65.01	0.95	12.70	H
	7681.77	-45.84	-25	-20.84	-66.93	-56.08	1.46	11.70	H
	10242.36	-45.07	-25	-20.07	-70.25	-55.86	1.31	12.10	H
	5121.18	-52.58	-25	-27.58	-67.71	-64.3256	0.95	12.70	V
	7681.77	-40.94	-25	-15.94	-61.69	-51.1756	1.46	11.70	V
	10242.36	-48.27	-25	-23.27	-71.13	-59.0556	1.31	12.10	V

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



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0									
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	5001.68	-52.79	-25	-27.79	-67.67	-64.54	0.95	12.70	H
	7502.52	-47.41	-25	-22.41	-68.50	-57.65	1.46	11.70	H
	10003.36	-44.64	-25	-19.64	-69.82	-55.43	1.31	12.10	H
	5001.68	-51.37	-25	-26.37	-66.5	-63.1156	0.95	12.70	V
	7502.52	-39.62	-25	-14.62	-60.37	-49.8556	1.46	11.70	V
	10003.36	-46.82	-25	-21.82	-69.68	-57.6056	1.31	12.10	V
Middle	5056.68	-52.99	-25	-27.99	-67.87	-64.74	0.95	12.70	H
	7585.02	-46.46	-25	-21.46	-67.55	-56.70	1.46	11.70	H
	10131.36	-45.92	-25	-20.92	-71.10	-56.71	1.31	12.10	H
	5056.68	-52.41	-25	-27.41	-67.54	-64.1556	0.95	12.70	V
	7585.02	-42.01	-25	-17.01	-62.76	-52.2456	1.46	11.70	V
	10131.36	-47.40	-25	-22.40	-70.26	-58.1856	1.31	12.10	V
Highest	5111.68	-53.32	-25	-28.32	-68.20	-65.07	0.95	12.70	H
	7667.52	-41.61	-25	-16.61	-62.70	-51.85	1.46	11.70	H
	10223.36	-44.97	-25	-19.97	-70.15	-55.76	1.31	12.10	H
	5111.68	-52.52	-25	-27.52	-67.65	-64.2656	0.95	12.70	V
	7667.52	-37.15	-25	-12.15	-57.9	-47.3856	1.46	11.70	V
	10223.36	-47.58	-25	-22.58	-70.44	-58.3656	1.31	12.10	V

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



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
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	5002.18	-50.19	-25	-25.19	-65.07	-61.94	0.95	12.70	H
	7503.27	-46.22	-25	-21.22	-67.31	-56.46	1.46	11.70	H
	10004.36	-44.18	-25	-19.18	-69.36	-54.97	1.31	12.10	H
	5002.18	-51.32	-25	-26.32	-66.45	-63.0656	0.95	12.70	V
	7503.27	-39.76	-25	-14.76	-60.51	-49.9956	1.46	11.70	V
	10004.36	-46.57	-25	-21.57	-69.43	-57.3556	1.31	12.10	V
Middle	5052.18	-51.28	-25	-26.28	-66.16	-63.03	0.95	12.70	H
	7578.27	-46.50	-25	-21.50	-67.59	-56.74	1.46	11.70	H
	10104.36	-44.58	-25	-19.58	-69.76	-55.37	1.31	12.10	H
	5052.18	-52.09	-25	-27.09	-67.22	-63.8356	0.95	12.70	V
	7578.27	-41.89	-25	-16.89	-62.64	-52.1256	1.46	11.70	V
	10104.36	-46.77	-25	-21.77	-69.63	-57.5556	1.31	12.10	V
Highest	5102.18	-53.33	-25	-28.33	-68.21	-65.08	0.95	12.70	H
	7653.27	-46.52	-25	-21.52	-67.61	-56.76	1.46	11.70	H
	10204.36	-45.72	-25	-20.72	-70.90	-56.51	1.31	12.10	H
	5102.18	-53.34	-25	-28.34	-68.47	-65.0856	0.95	12.70	V
	7653.27	-38.82	-25	-13.82	-59.57	-49.0556	1.46	11.70	V
	10204.36	-46.65	-25	-21.65	-69.51	-57.4356	1.31	12.10	V

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



LTE Band 17 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1408.68	-51.02	-13	-38.02	-54.32	-53.95	0.78	5.86	H
	2113.02	-55.47	-13	-42.47	-59.99	-58.07	1	5.75	H
	2817.36	-55.42	-13	-42.42	-62.50	-59.72	1.05	7.50	H
	3522.5	-49.71	-13	-36.71	-59.12	-54.96	1.3	8.70	H
	1408.68	-37.69	-13	-24.69	-43.15	-40.62	0.78	5.86	V
	2113.02	-53.06	-13	-40.06	-56.95	-55.66	1.00	5.75	V
	2817.36	-54.14	-13	-41.14	-61.47	-58.44	1.05	7.50	V
	3522.5	-50.55	-13	-37.55	-60.43	-55.80	1.30	8.70	V
Middle	1415.68	-46.95	-13	-33.95	-50.95	-49.88	0.78	5.86	H
	2123.58	-46.60	-13	-33.60	-52.93	-49.20	1	5.75	H
	2831.36	-58.34	-13	-45.34	-65.42	-62.64	1.05	7.50	H
	3539.2	-51.00	-13	-38.00	-60.41	-56.25	1.3	8.70	H
	1415.68	-37.52	-13	-24.52	-42.98	-40.45	0.78	5.86	V
	2123.58	-45.87	-13	-32.87	-51.94	-48.47	1.00	5.75	V
	2831.36	-51.85	-13	-38.85	-59.18	-56.15	1.05	7.50	V
	3539.2	-49.87	-13	-36.87	-59.75	-55.12	1.30	8.70	V
Highest	1422.68	-52.82	-13	-39.82	-55.95	-55.75	0.78	5.86	H
	2134.02	-52.62	-13	-39.62	-57.14	-55.22	1	5.75	H
	2845.36	-54.06	-13	-41.06	-61.14	-58.36	1.05	7.50	H
	3556.7	-50.70	-13	-37.70	-60.11	-55.95	1.3	8.70	H
	1422.68	-39.63	-13	-26.63	-45.02	-42.56	0.78	5.86	V
	2134.02	-48.75	-13	-35.75	-54.28	-51.35	1.00	5.75	V
	2845.36	-50.92	-13	-37.92	-58.25	-55.22	1.05	7.50	V
	3556.7	-49.76	-13	-36.76	-59.64	-55.01	1.30	8.70	V

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



LTE Band 17 / 10MHz / QPSK / RB Size 1 Offset 0									
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	1409.18	-46.08	-13	-33.08	-50.41	-49.01	0.78	5.86	H
	2113.77	-54.66	-13	-41.66	-59.18	-57.26	1	5.75	H
	2818.36	-58.49	-13	-45.49	-65.57	-62.79	1.05	7.50	H
	3522.5	-53.00	-13	-40.00	-62.41	-58.25	1.3	8.70	H
	1409.18	-38.23	-13	-25.23	-43.68	-41.16	0.78	5.86	V
	2113.77	-50.04	-13	-37.04	-54.93	-52.64	1.00	5.75	V
	2818.36	-54.96	-13	-41.96	-62.29	-59.26	1.05	7.50	V
	3522.5	-51.07	-13	-38.07	-60.95	-56.32	1.30	8.70	V
Middle	1411.18	-47.50	-13	-34.50	-51.55	-50.43	0.78	5.86	H
	2116.77	-55.22	-13	-42.22	-59.74	-57.82	1	5.75	H
	2822.36	-59.30	-13	-46.30	-66.38	-63.60	1.05	7.50	H
	3527.5	-52.09	-13	-39.09	-61.50	-57.34	1.3	8.70	H
	1411.18	-38.12	-13	-25.12	-43.57	-41.05	0.78	5.86	V
	2116.77	-51.79	-13	-38.79	-56.12	-54.39	1.00	5.75	V
	2822.36	-54.19	-13	-41.19	-61.52	-58.49	1.05	7.50	V
	3527.5	-50.48	-13	-37.48	-60.36	-55.73	1.30	8.70	V
Highest	1413.18	-44.70	-13	-31.70	-49.11	-47.63	0.78	5.86	H
	2119.77	-50.65	-13	-37.65	-55.99	-53.25	1	5.75	H
	2826.36	-58.01	-13	-45.01	-65.09	-62.31	1.05	7.50	H
	3532.5	-51.75	-13	-38.75	-61.16	-57.00	1.3	8.70	H
	1413.18	-37.32	-13	-24.32	-42.79	-40.25	0.78	5.86	V
	2119.77	-43.77	-13	-30.77	-50.38	-46.37	1.00	5.75	V
	2826.36	-52.55	-13	-39.55	-59.88	-56.85	1.05	7.50	V
	3532.5	-49.79	-13	-36.79	-59.67	-55.04	1.30	8.70	V

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