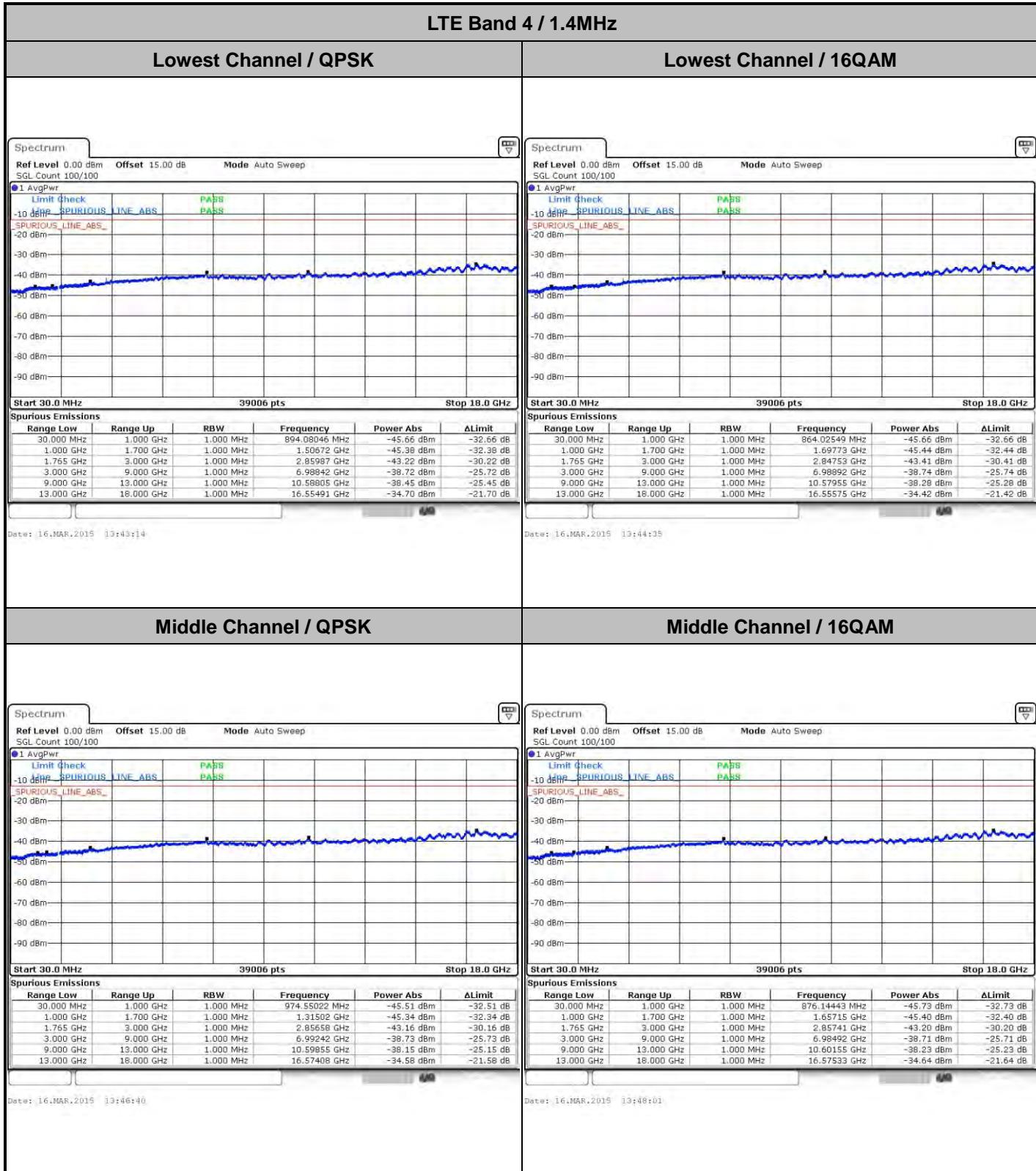




Conducted Spurious Emission

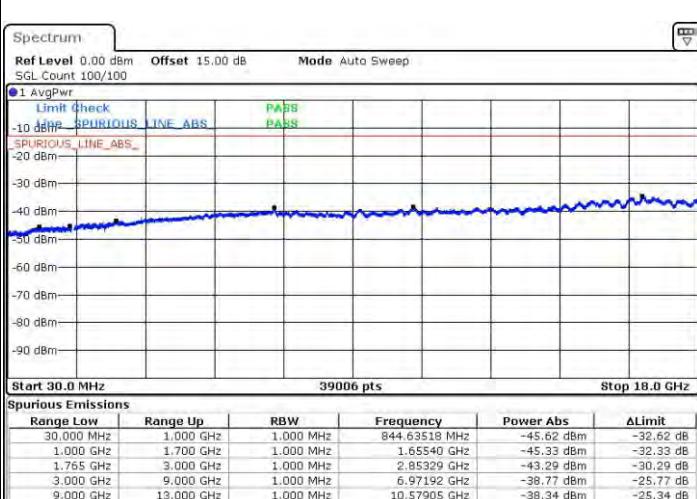
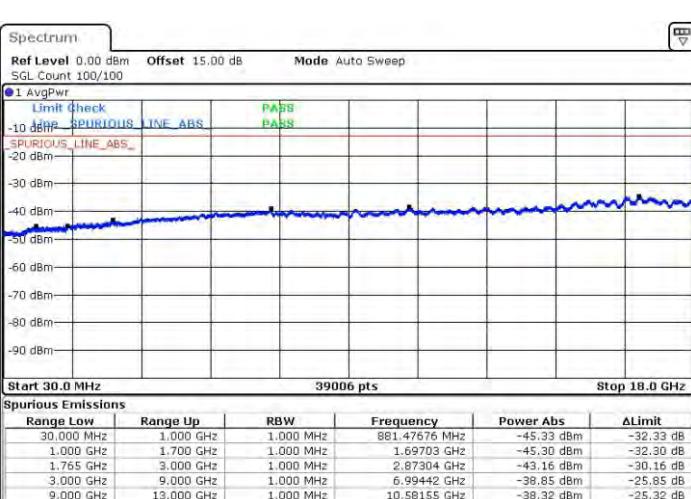




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

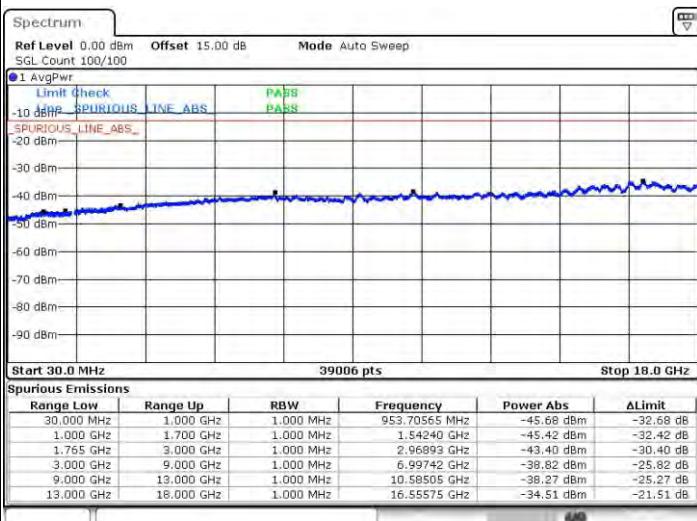
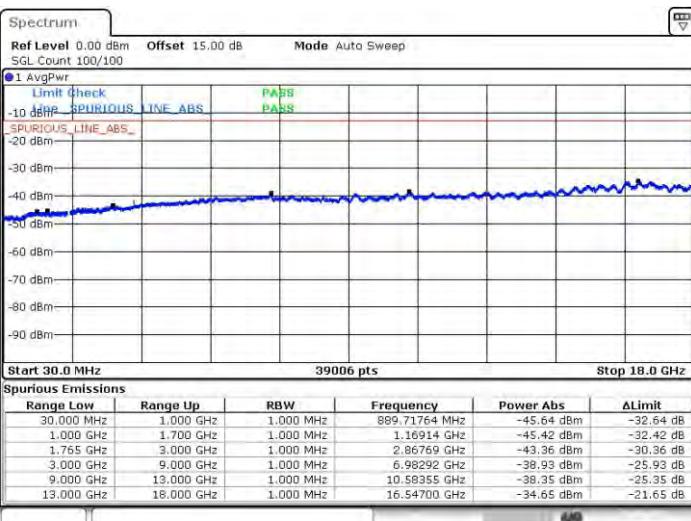
Highest Channel / 16QAM

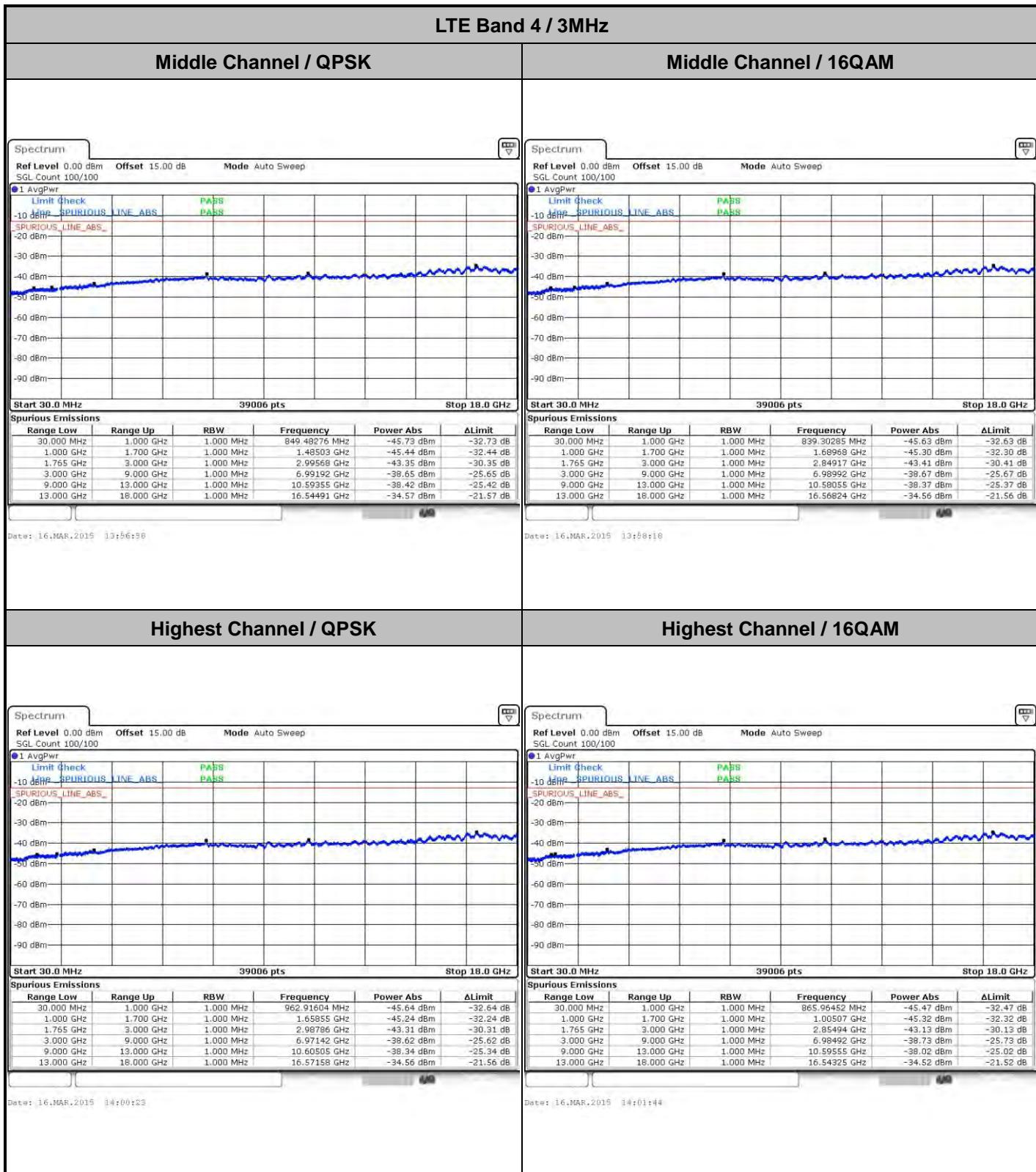


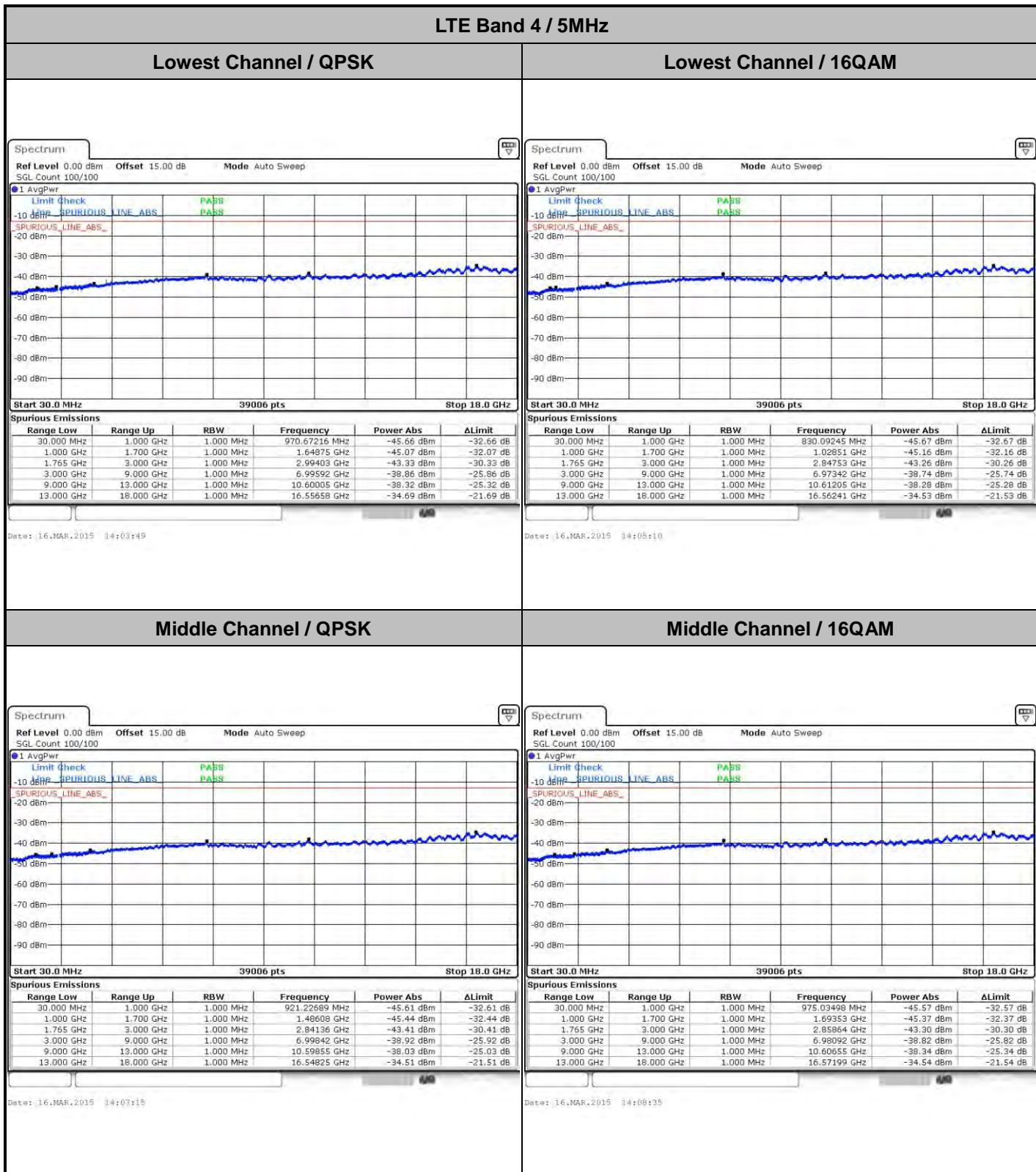
LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM





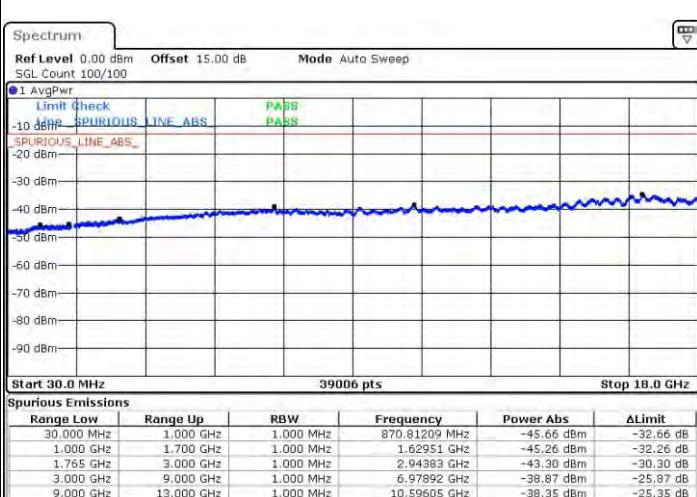
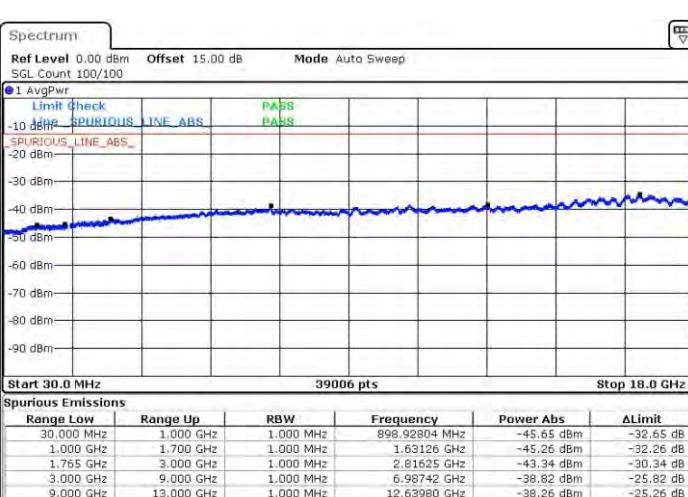




LTE Band 4 / 5MHz

Highest Channel / QPSK

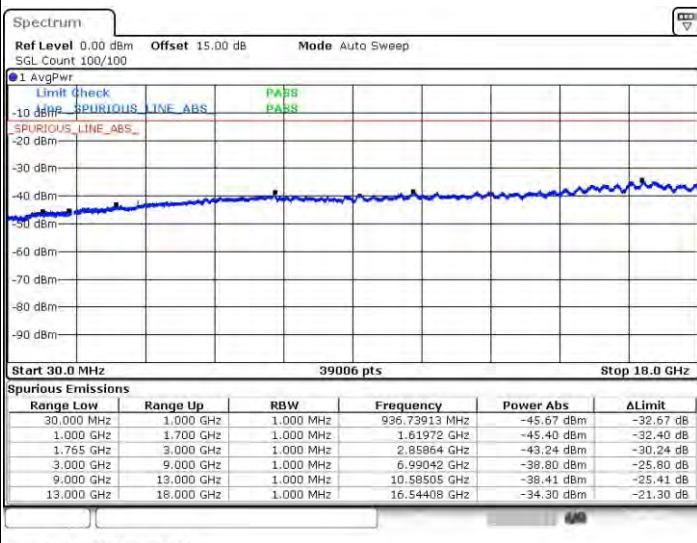
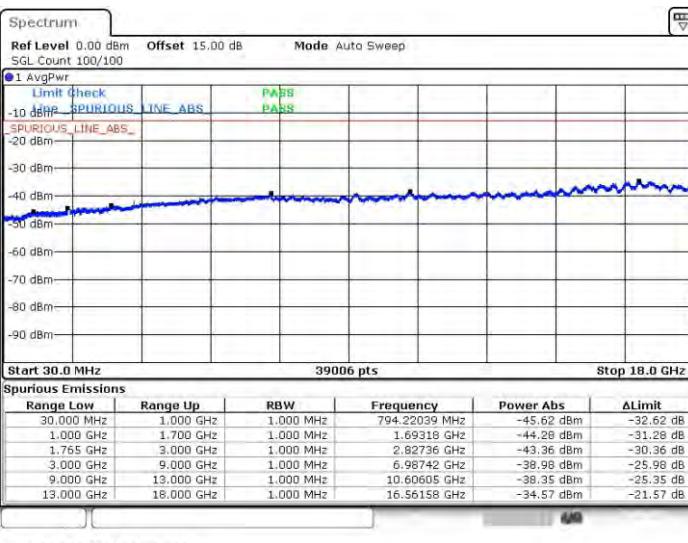
Highest Channel / 16QAM

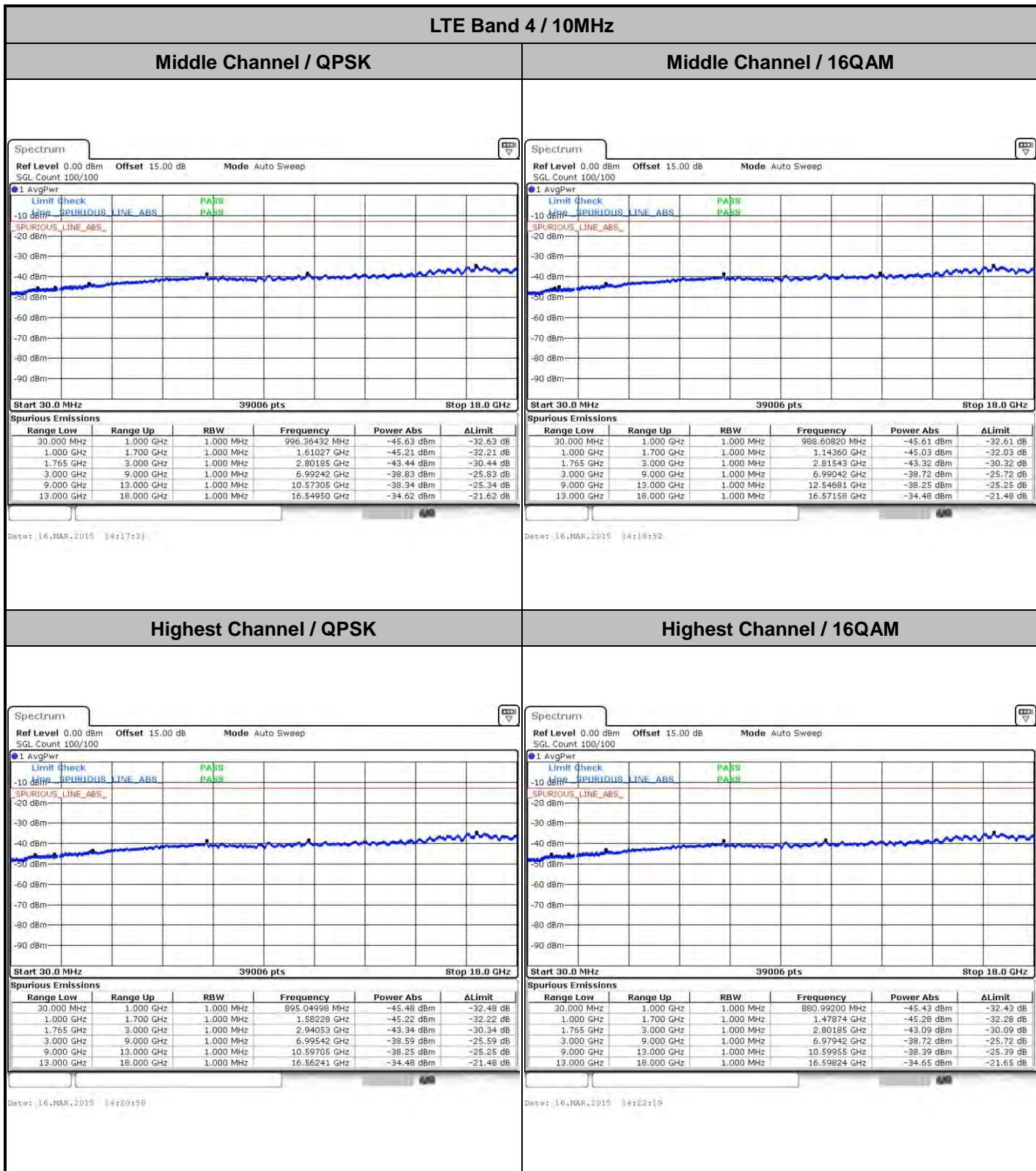


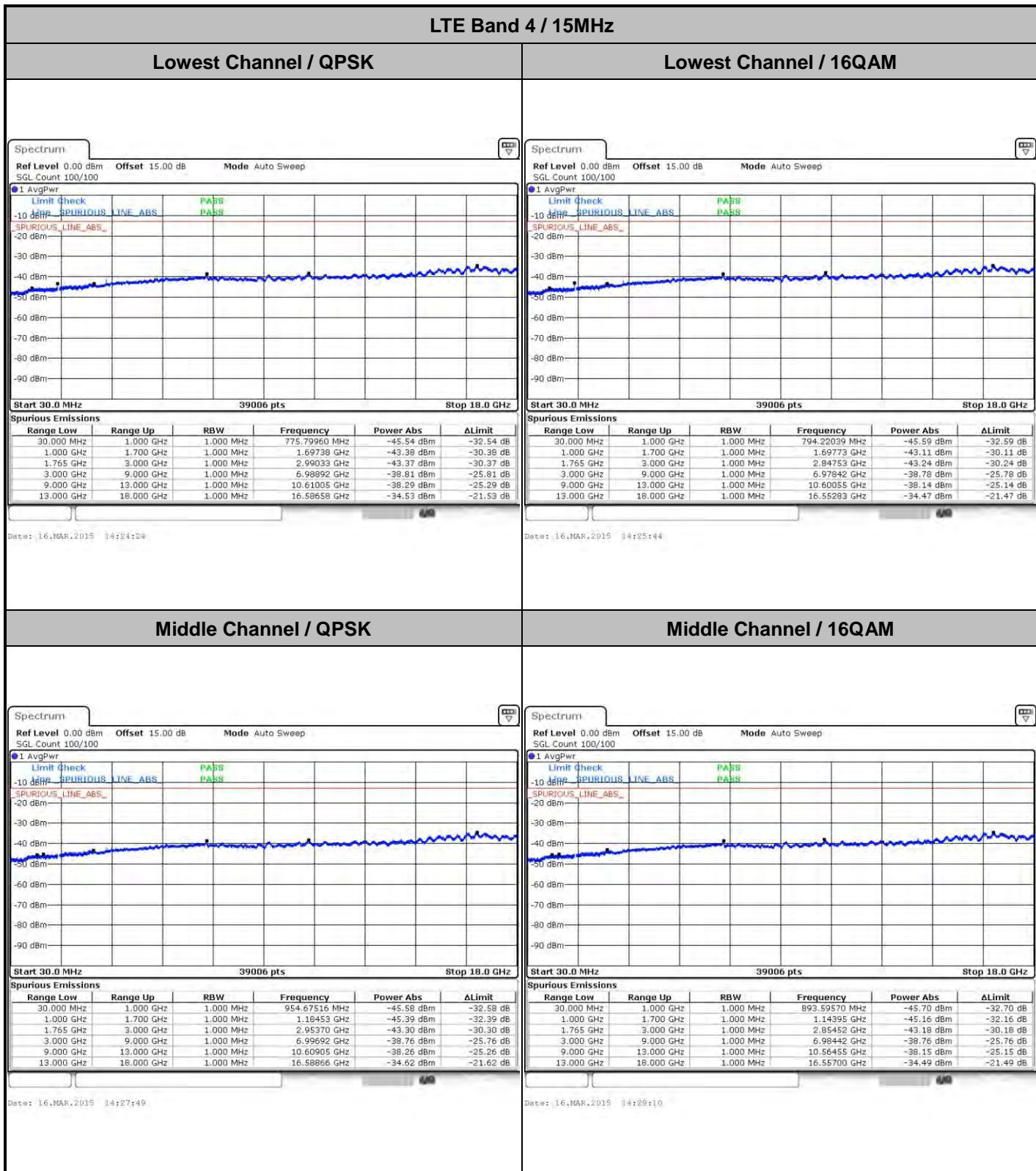
LTE Band 4 / 10MHz

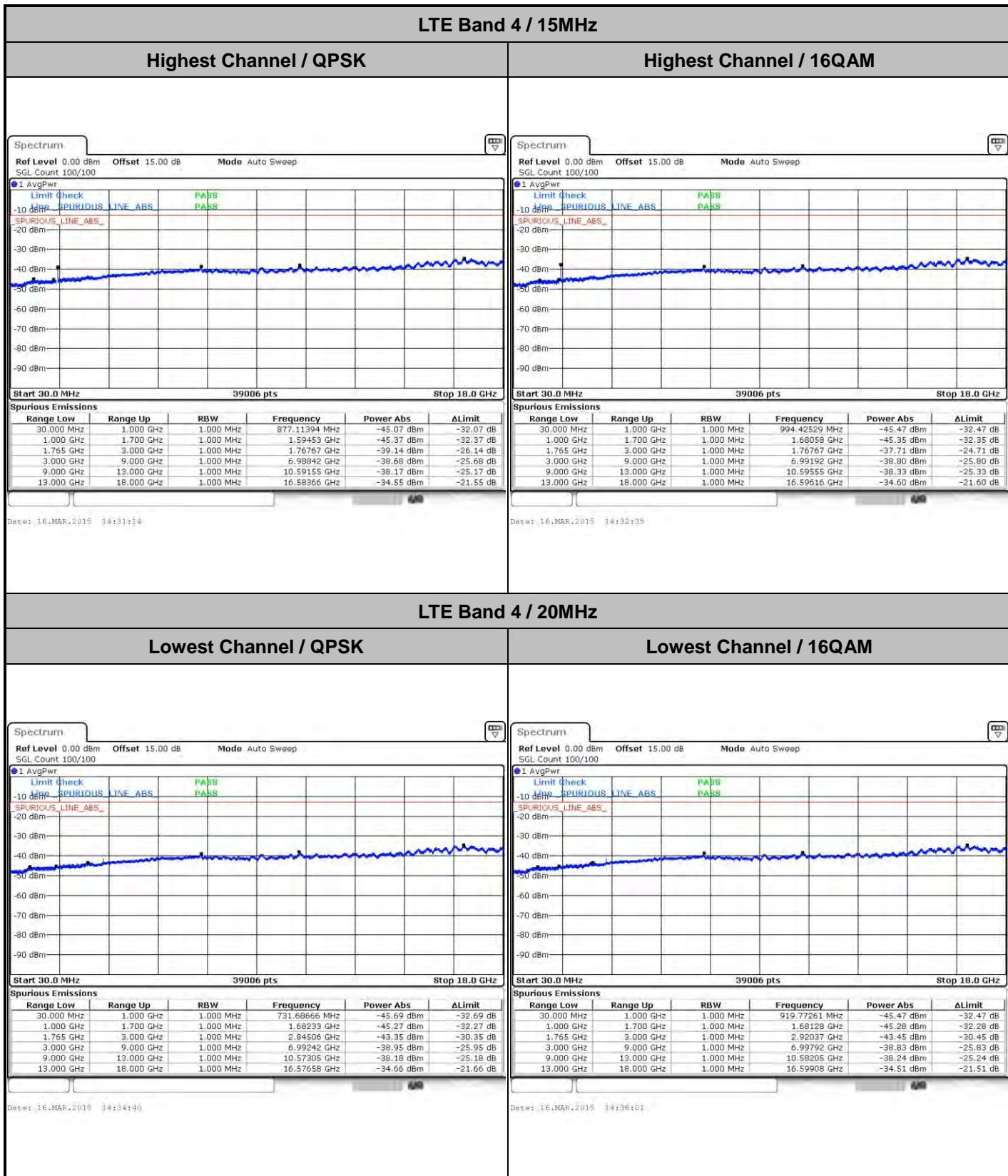
Lowest Channel / QPSK

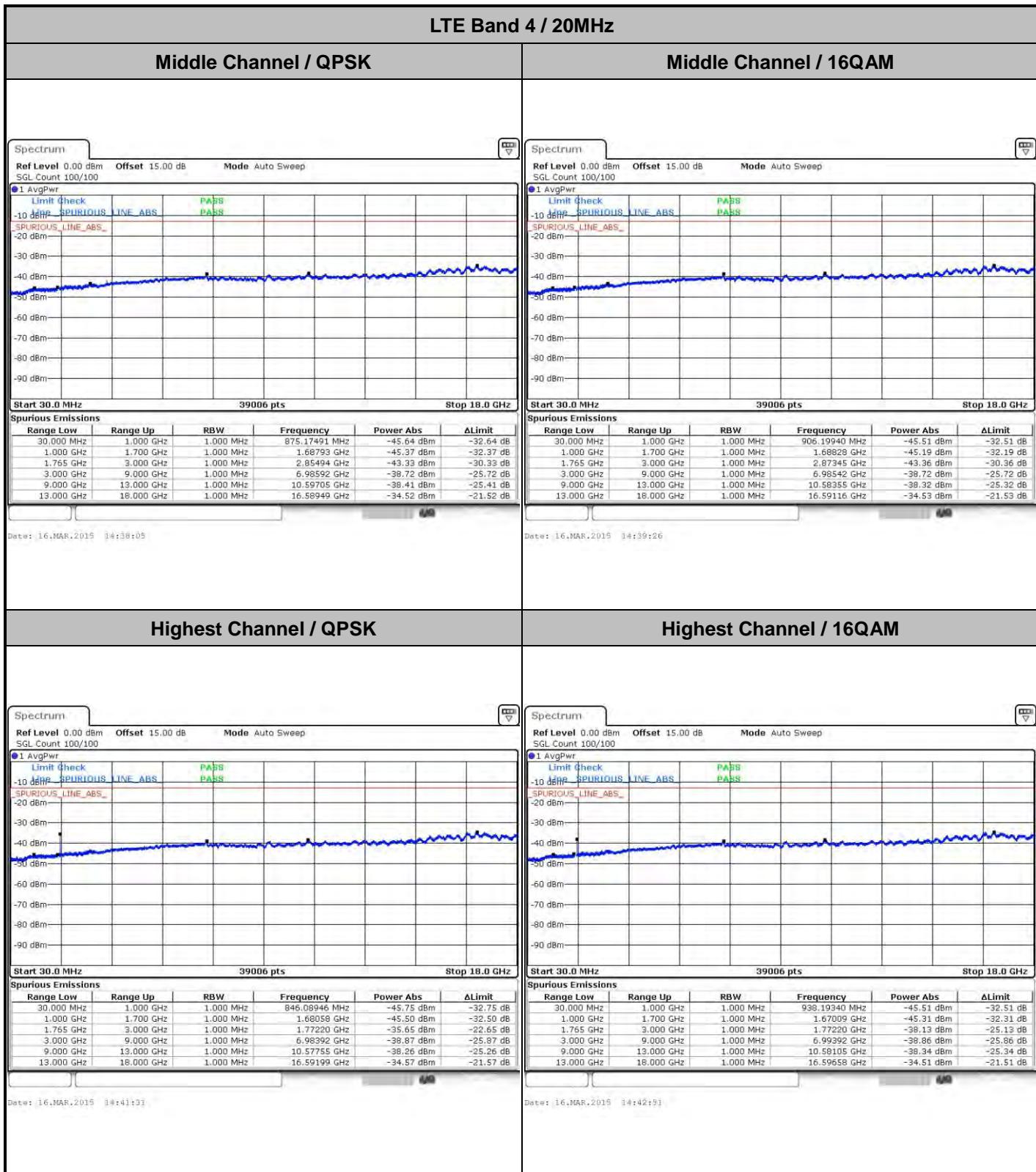
Lowest Channel / 16QAM

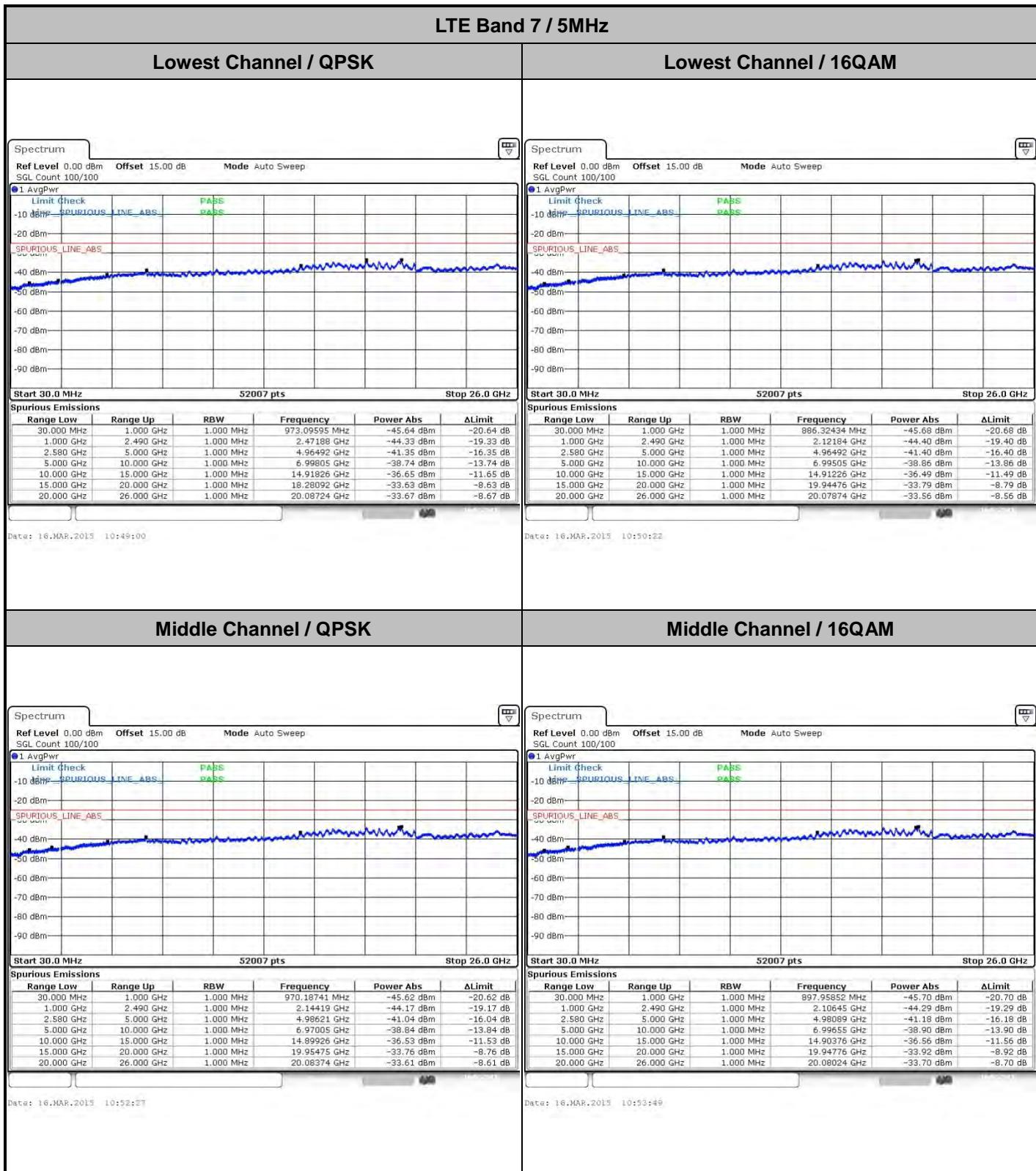


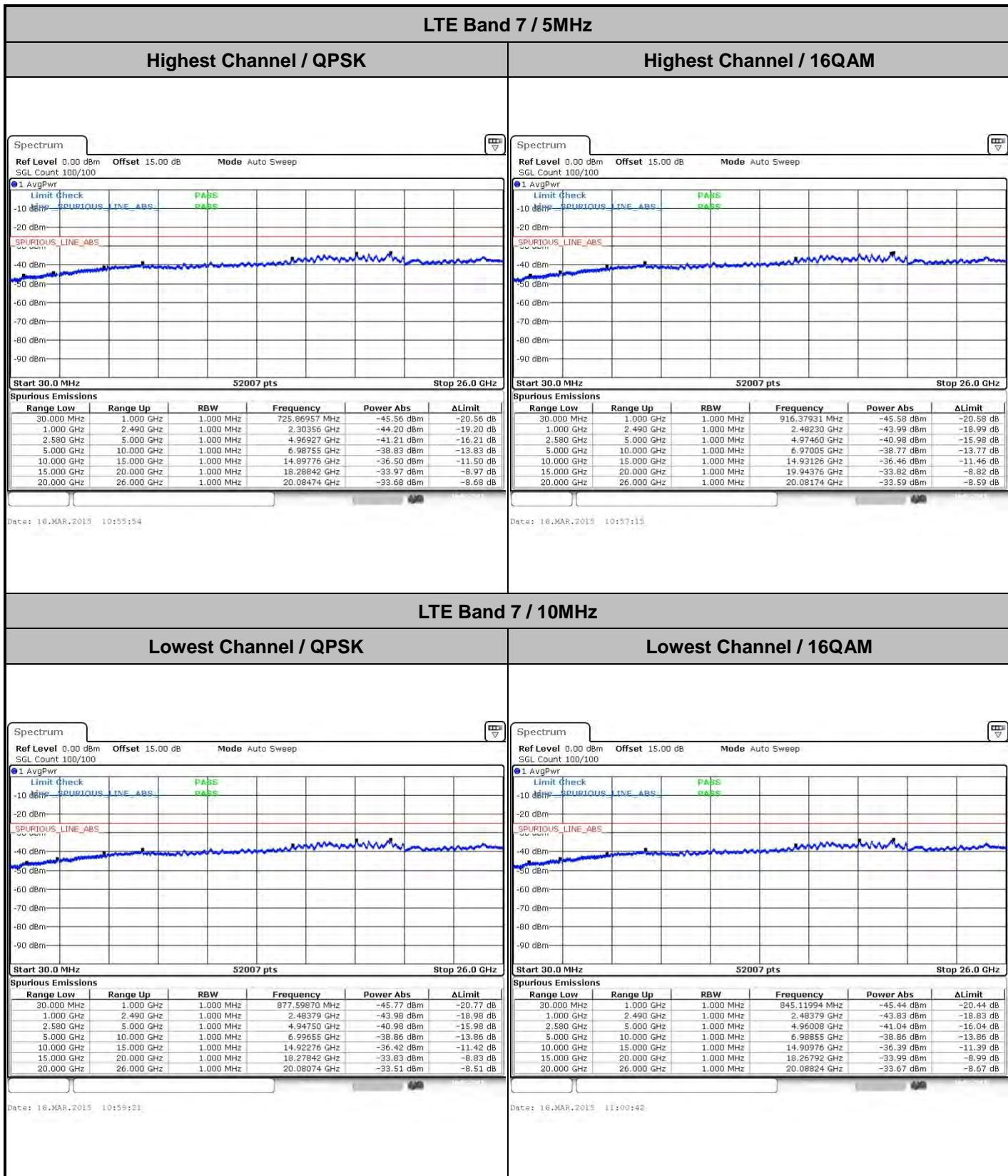


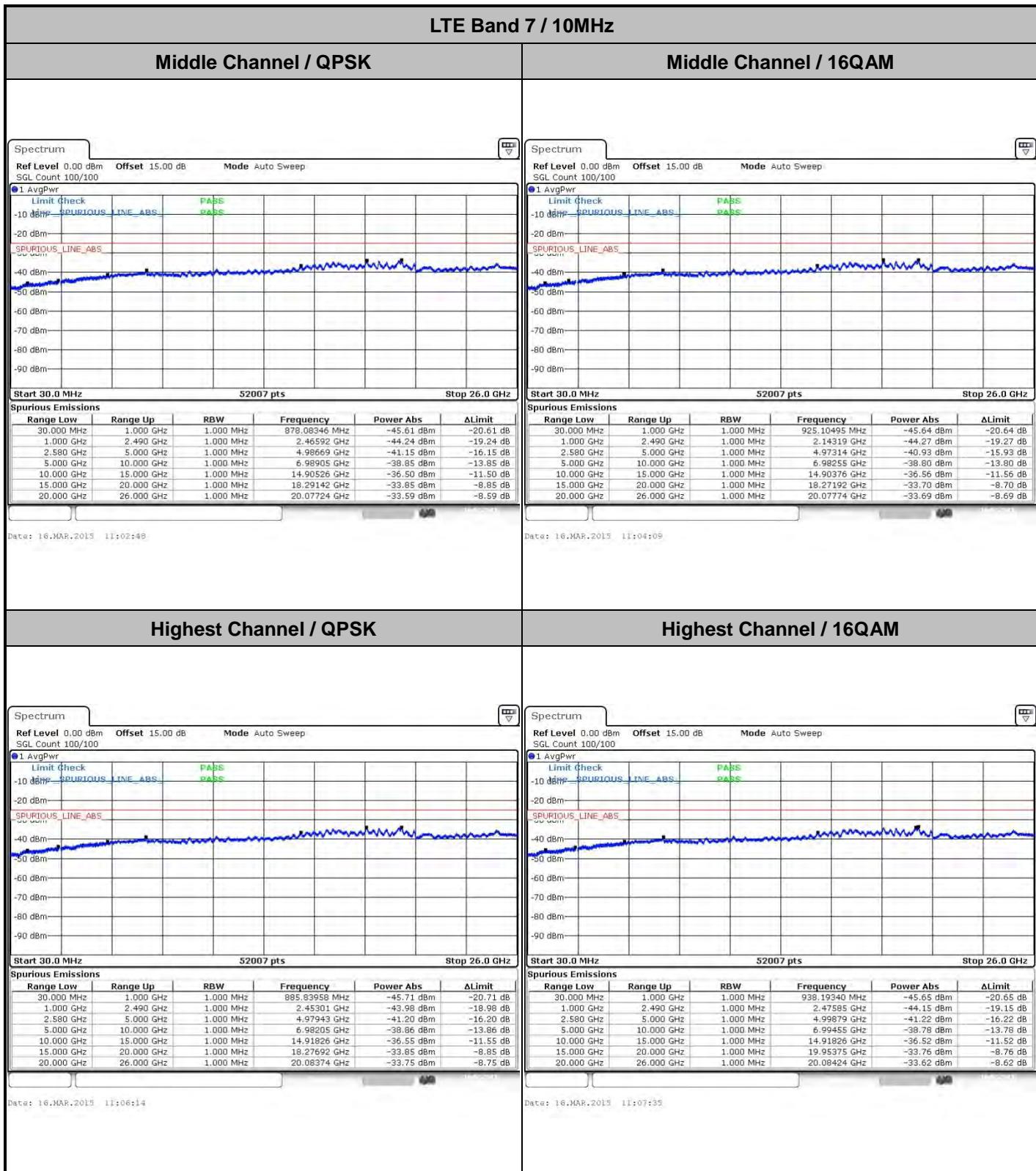


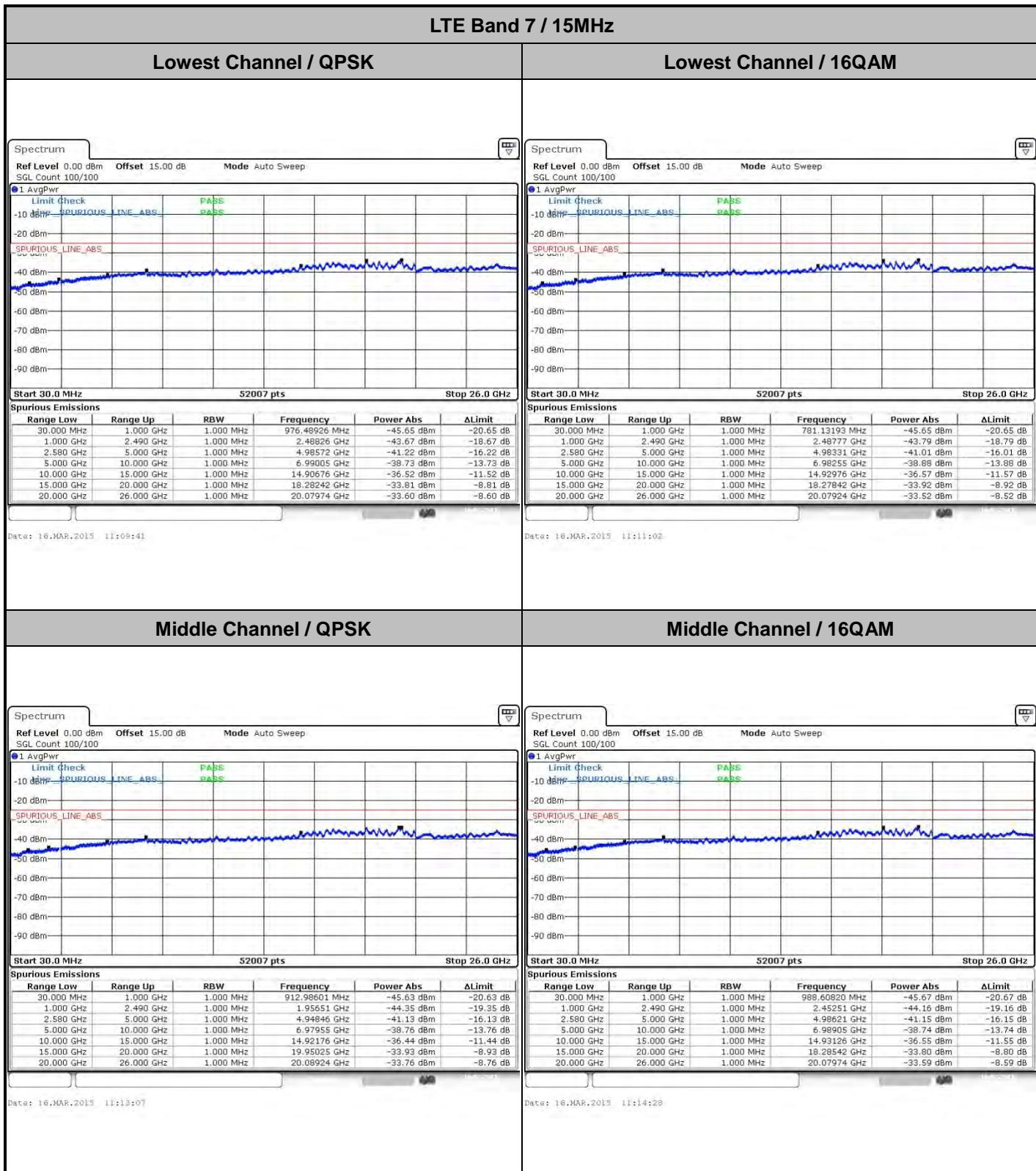


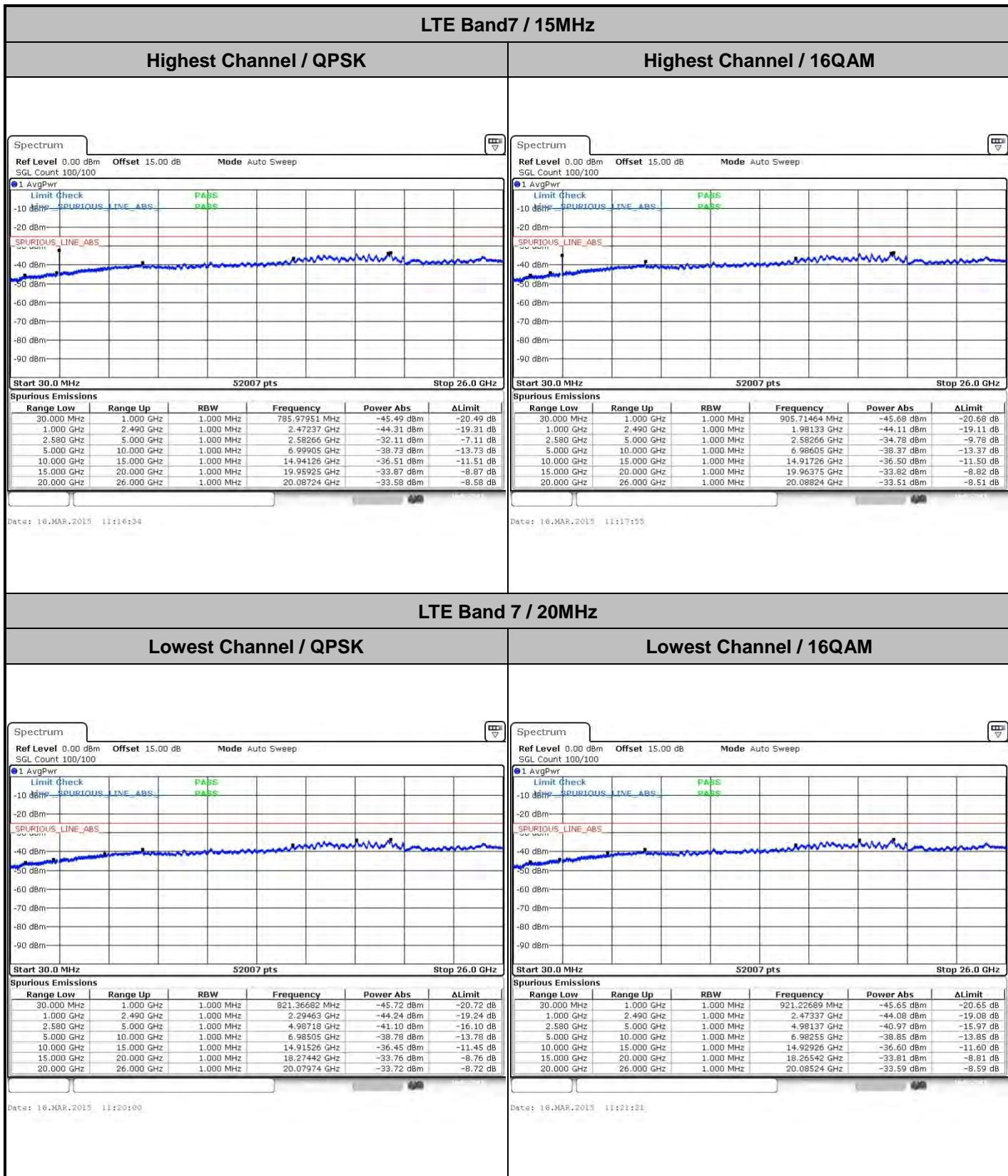


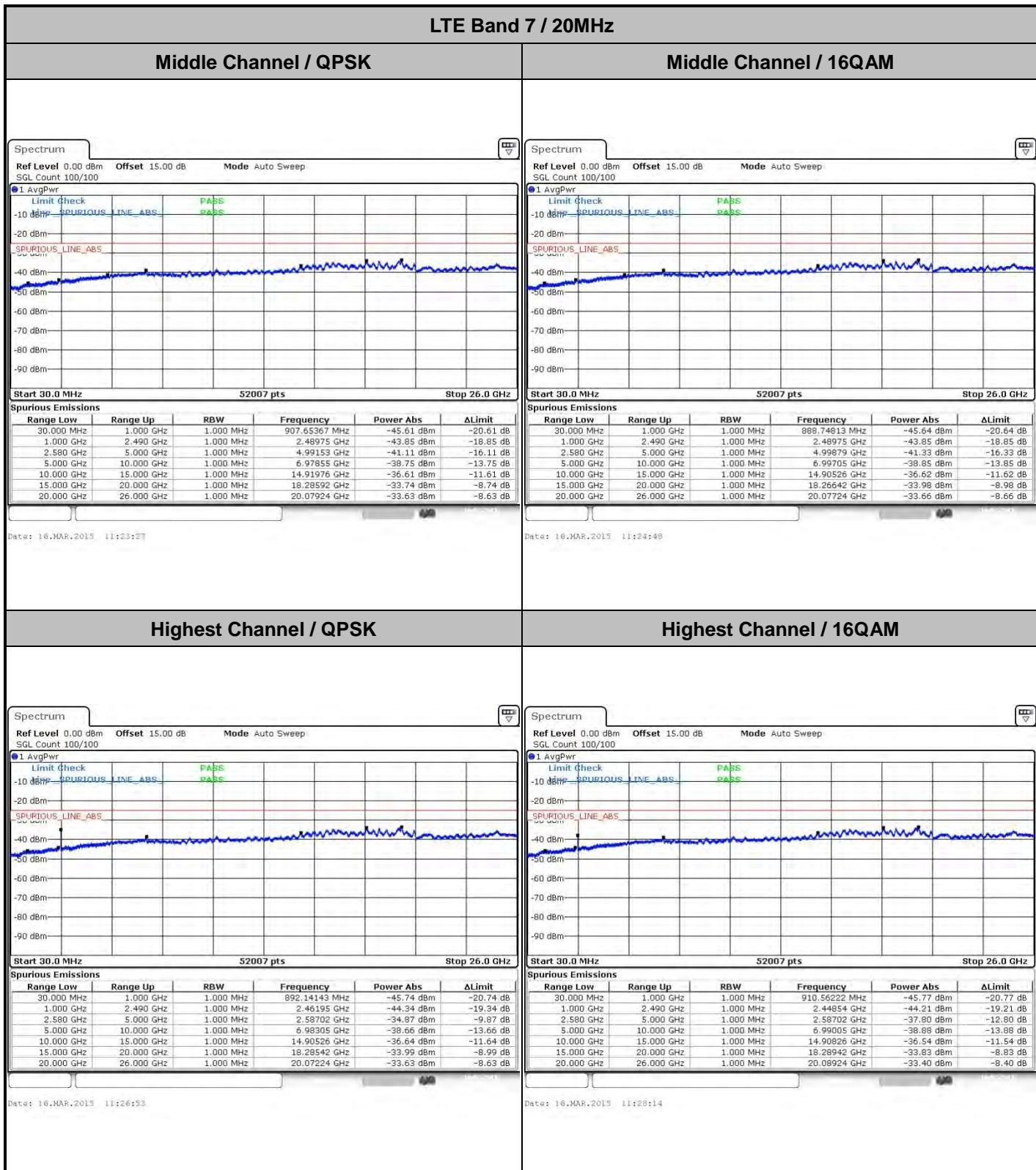


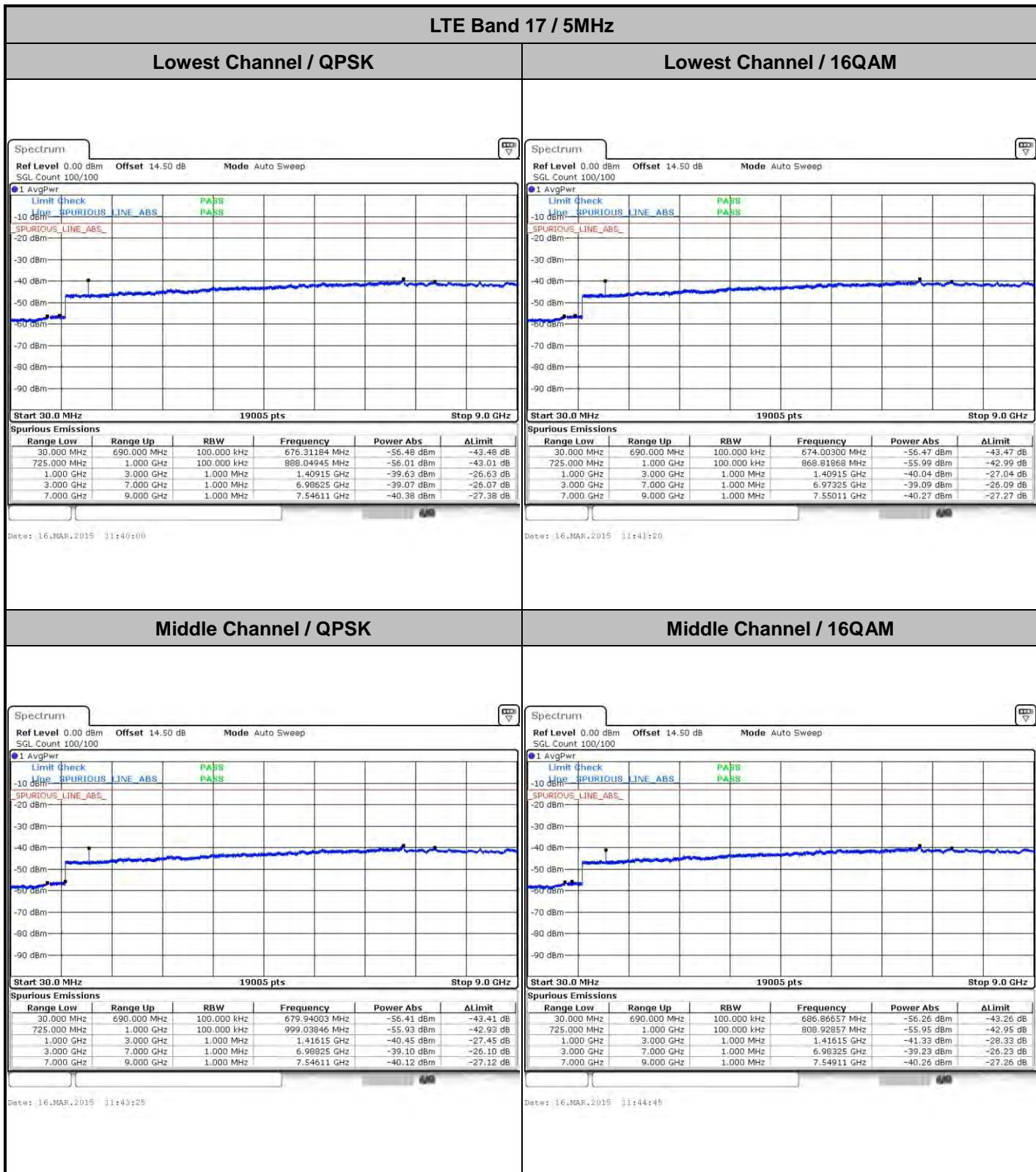










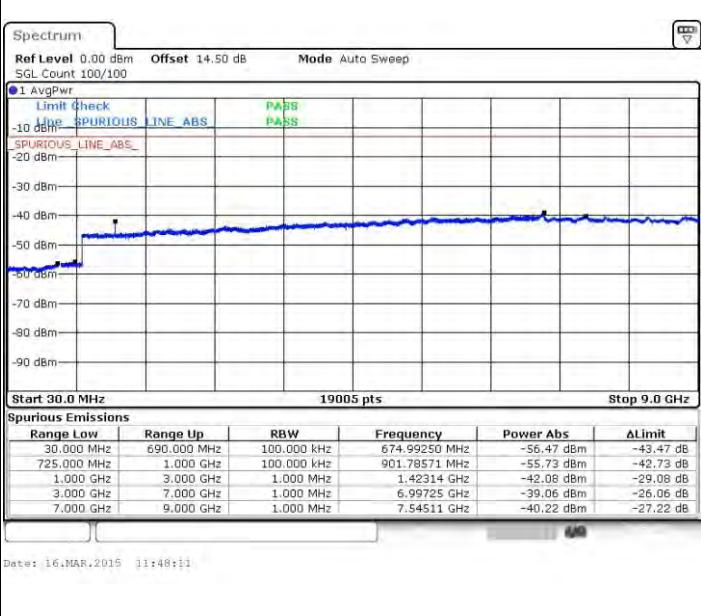
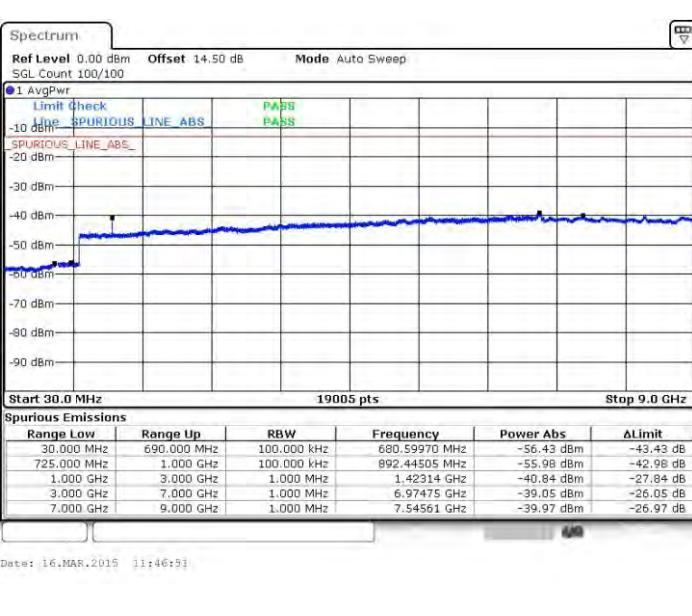




LTE Band 17 / 5MHz

Highest Channel / QPSK

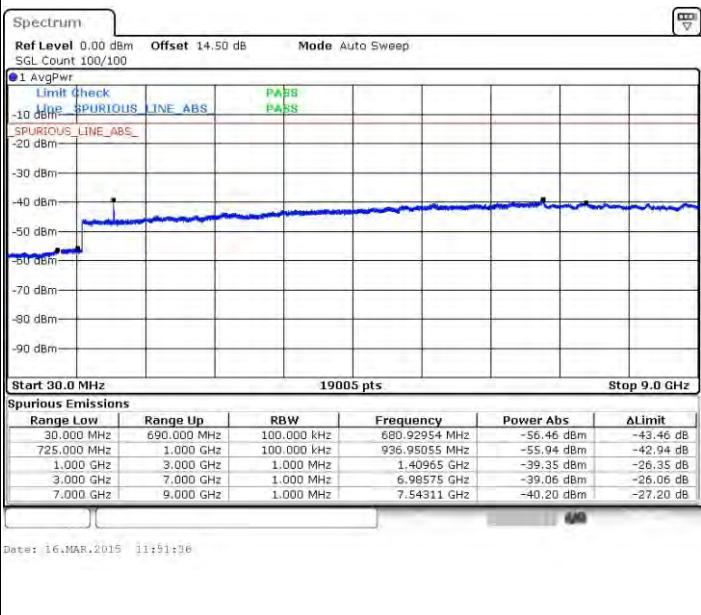
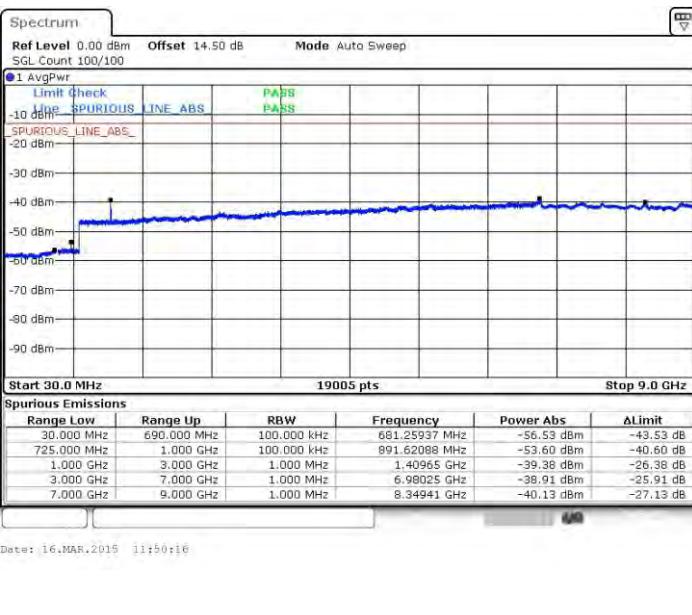
Highest Channel / 16QAM

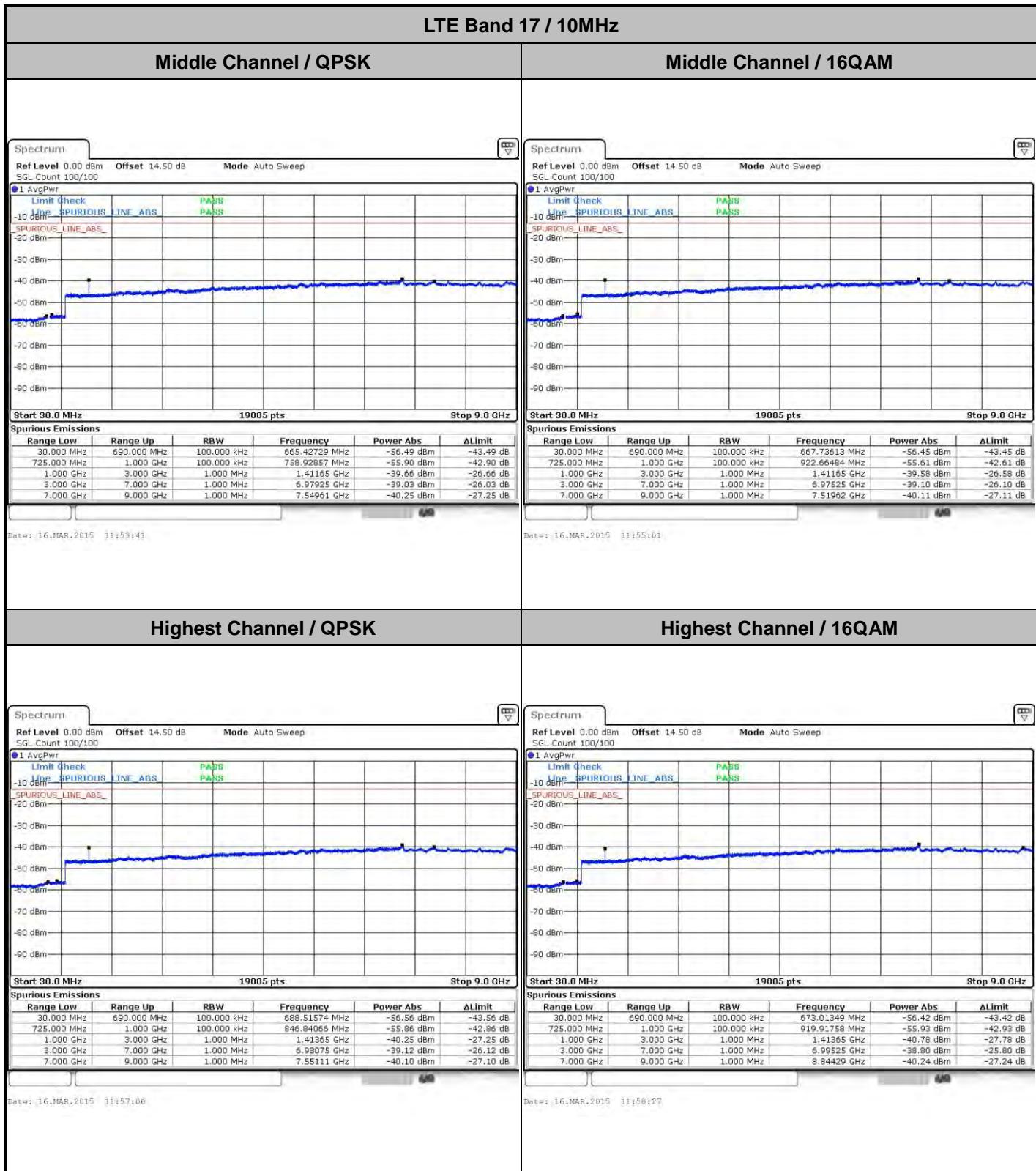


LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM







Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0075	PASS
40	Normal Voltage	0.0069	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.80 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.80 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0141	PASS
40	Normal Voltage	0.0127	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0127	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0056	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage = 3.80 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 4 / 1.4MHz						
Channel	Modulation	RB		Horizontal		Vertical
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)
Lowest	QPSK	3	1	22.75	0.1884	18.10
Middle		1	5	22.62	0.1828	17.36
Highest		1	5	22.05	0.1603	16.97
Lowest	16QAM	3	1	21.77	0.1503	17.07
Middle		1	5	21.56	0.1432	16.29
Highest		1	5	21.02	0.1265	15.95
Limit	EIRP < 1W			Result		PASS

LTE Band 4 / 3MHz						
Channel	Modulation	RB		Horizontal		Vertical
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)
Lowest	QPSK	1	14	22.52	0.1786	17.85
Middle		1	7	22.47	0.1766	17.24
Highest		1	0	22.31	0.1702	17.29
Lowest	16QAM	1	7	21.47	0.1403	16.91
Middle		1	7	21.47	0.1403	16.23
Highest		1	0	21.33	0.1358	16.37
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	24	22.64	0.1837	17.91	0.0618
Middle		1	12	22.59	0.1816	17.37	0.0546
Highest		1	12	22.31	0.1702	17.20	0.0525
Lowest	16QAM	1	24	21.44	0.1393	16.74	0.0472
Middle		1	12	21.64	0.1459	16.49	0.0446
Highest		1	12	21.29	0.1346	16.32	0.0429
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	49	22.39	0.1734	17.79	0.0601
Middle		1	24	22.45	0.1758	17.29	0.0536
Highest		1	24	22.51	0.1782	17.41	0.0551
Lowest	16QAM	1	49	21.44	0.1393	16.95	0.0495
Middle		1	24	21.48	0.1406	16.25	0.0422
Highest		1	24	21.44	0.1393	16.54	0.0451
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	22.61	0.1824	18.04	0.0637
Middle		1	37	22.51	0.1782	17.33	0.0541
Highest		1	37	22.36	0.1722	17.42	0.0552
Lowest	16QAM	1	37	21.59	0.1442	17.16	0.0520
Middle		1	37	21.53	0.1422	16.34	0.0431
Highest		1	37	21.29	0.1346	16.43	0.0440
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	22.47	0.1766	17.81	0.0604
Middle		1	0	22.44	0.1754	17.58	0.0573
Highest		1	0	22.64	0.1837	17.68	0.0586
Lowest	16QAM	1	49	21.29	0.1346	16.80	0.0479
Middle		1	0	21.38	0.1374	16.58	0.0455
Highest		1	0	21.72	0.1486	16.65	0.0462
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	24	22.91	0.1954	18.03	0.0635
Middle		1	24	23.19	0.2084	18.16	0.0655
Highest		1	0	22.64	0.1837	17.37	0.0546
Lowest	16QAM	1	24	21.93	0.1560	17.09	0.0512
Middle		1	24	22.18	0.1652	17.08	0.0511
Highest		1	0	21.54	0.1426	16.34	0.0431
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	23.30	0.2138	18.13	0.0650
Middle		1	49	23.36	0.2168	18.08	0.0643
Highest		1	0	22.68	0.1854	17.46	0.0557
Lowest	16QAM	1	49	22.27	0.1687	17.18	0.0522
Middle		1	49	22.35	0.1718	17.05	0.0507
Highest		1	49	21.48	0.1406	16.05	0.0403
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	23.41	0.2193	18.12	0.0649
Middle		1	37	23.37	0.2173	18.13	0.0650
Highest		1	0	23.16	0.2070	17.69	0.0587
Lowest	16QAM	1	74	22.35	0.1718	17.10	0.0513
Middle		1	37	22.55	0.1799	17.14	0.0518
Highest		1	0	22.12	0.1629	16.62	0.0459
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	23.57	0.2275	18.15	0.0653
Middle		1	99	23.45	0.2213	17.89	0.0615
Highest		1	99	22.53	0.1791	17.01	0.0502
Lowest	16QAM	1	99	22.27	0.1687	16.80	0.0479
Middle		1	99	22.20	0.1660	16.73	0.0471
Highest		1	99	21.27	0.1340	15.79	0.0379
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	24	15.38	0.0345	5.09	0.0032
Middle		1	0	14.50	0.0282	4.07	0.0026
Highest		1	0	15.13	0.0326	4.43	0.0028
Lowest	16QAM	1	24	14.45	0.0279	4.07	0.0026
Middle		1	12	14.31	0.0270	3.93	0.0025
Highest		1	0	14.18	0.0262	3.45	0.0022
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	24	15.29	0.0338	4.93	0.0031
Middle		1	24	15.21	0.0332	4.88	0.0031
Highest		1	24	15.10	0.0324	4.57	0.0029
Lowest	16QAM	1	24	14.38	0.0274	3.91	0.0025
Middle		1	49	12.64	0.0184	1.17	0.0013
Highest		1	0	13.24	0.0211	2.59	0.0018
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	-47.74	-13	-34.74	-64.29	-53.81	1.58	7.65	H
	5128	-53.06	-13	-40.06	-75.78	-60.35	2.41	9.70	H
	6843	-50.04	-13	-37.04	-76.94	-58.01	2.64	10.61	H
	3420	-48.92	-13	-35.92	-64.94	-54.99	1.58	7.65	V
	5128	-52.35	-13	-39.35	-74.27	-59.64	2.41	9.70	V
	6843	-50.61	-13	-37.61	-77.1	-58.58	2.64	10.61	V
Middle	3464	-51.41	-13	-38.41	-68.49	-57.66	1.59	7.84	H
	5196	-51.33	-13	-38.33	-74.15	-58.58	2.45	9.70	H
	6928	-48.32	-13	-35.32	-75.63	-56.42	2.61	10.71	H
	3464	-55.89	-13	-42.89	-72.78	-62.14	1.59	7.84	V
	5196	-50.61	-13	-37.61	-72.66	-57.86	2.45	9.70	V
	6928	-49.35	-13	-36.35	-76.34	-57.45	2.61	10.71	V
Highest	3511	-49.83	-13	-36.83	-67.16	-56.24	1.61	8.01	H
	5261	-53.34	-13	-40.34	-75.98	-60.55	2.49	9.70	H
	7025	-48.52	-13	-35.52	-76.09	-56.79	2.58	10.85	H
	3511	-51.48	-13	-38.48	-69.07	-57.89	1.61	8.01	V
	5261	-51.07	-13	-38.07	-73.98	-58.28	2.49	9.70	V
	7025	-48.47	-13	-35.47	-76.04	-56.74	2.58	10.85	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	-46.08	-13	-33.08	-62.61	-52.15	1.58	7.65	H
	5128	-53.18	-13	-40.18	-75.93	-60.47	2.41	9.70	H
	6843	-49.76	-13	-36.76	-76.67	-57.73	2.64	10.61	H
	3420	-50.32	-13	-37.32	-66.45	-56.39	1.58	7.65	V
	5128	-53.68	-13	-40.68	-75.72	-60.97	2.41	9.70	V
	6843	-50.46	-13	-37.46	-76.95	-58.43	2.64	10.61	V
Middle	3464	-49.98	-13	-36.98	-66.98	-56.23	1.59	7.84	H
	5192	-49.77	-13	-36.77	-72.41	-57.02	2.45	9.70	H
	6928	-48.34	-13	-35.34	-75.61	-56.44	2.61	10.71	H
	3464	-55.50	-13	-42.50	-72.39	-61.75	1.59	7.84	V
	5192	-49.56	-13	-36.56	-71.81	-56.81	2.45	9.70	V
	6928	-49.14	-13	-36.14	-76.21	-57.24	2.61	10.71	V
Highest	3504	-48.70	-13	-35.70	-65.97	-55.1	1.61	8.00	H
	5254	-52.92	-13	-39.92	-75.47	-60.14	2.48	9.70	H
	7011	-48.76	-13	-35.76	-76.19	-57	2.59	10.82	H
	3504	-51.38	-13	-38.38	-68.72	-57.78	1.61	8.00	V
	5254	-50.64	-13	-37.64	-73.53	-57.86	2.48	9.70	V
	7011	-48.80	-13	-35.80	-76.29	-57.04	2.59	10.82	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	-45.49	-13	-32.49	-62.12	-51.56	1.58	7.65	H
	5135	-52.73	-13	-39.73	-75.5	-60.02	2.41	9.70	H
	6843	-49.93	-13	-36.93	-76.8	-57.9	2.64	10.61	H
	3420	-48.59	-13	-35.59	-64.78	-54.66	1.58	7.65	V
	5128	-53.93	-13	-40.93	-75.84	-61.22	2.41	9.70	V
	3420	-48.59	-13	-35.59	-64.78	-54.66	1.58	7.65	V
Middle	3460	-45.46	-13	-32.46	-62.76	-51.69	1.59	7.82	H
	5192	-49.62	-13	-36.62	-72.28	-56.87	2.45	9.70	H
	6924	-49.40	-13	-36.40	-76.33	-57.49	2.62	10.71	H
	3460	-51.77	-13	-38.77	-68.74	-58	1.59	7.82	V
	5192	-49.95	-13	-36.95	-72.24	-57.2	2.45	9.70	V
	6924	-49.39	-13	-36.39	-76.31	-57.48	2.62	10.71	V
Highest	3504	-49.36	-13	-36.36	-66.6	-55.76	1.61	8.00	H
	5254	-52.52	-13	-39.52	-75.09	-59.74	2.48	9.70	H
	7011	-48.79	-13	-35.79	-76.35	-57.03	2.59	10.82	H
	3504	-50.40	-13	-37.40	-67.87	-56.8	1.61	8.00	V
	5254	-51.57	-13	-38.57	-74.31	-58.79	2.48	9.70	V
	7011	-48.52	-13	-35.52	-76.08	-56.76	2.59	10.82	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	3420	-46.25	-13	-33.25	-62.8	-52.32	1.58	7.65	H
	5135	-52.71	-13	-39.71	-75.42	-60	2.41	9.70	H
	6843	-49.77	-13	-36.77	-76.66	-57.74	2.64	10.61	H
	3420	-48.91	-13	-35.91	-65.03	-54.98	1.58	7.65	V
	5135	-53.23	-13	-40.23	-75.16	-60.52	2.41	9.70	V
	6843	-50.59	-13	-37.59	-77.08	-58.56	2.64	10.61	V
Middle	3456	-44.46	-13	-31.46	-61.4	-50.68	1.59	7.81	H
	5184	-48.88	-13	-35.88	-71.68	-56.14	2.44	9.70	H
	6912	-48.40	-13	-35.40	-75.44	-56.48	2.62	10.69	H
	3456	-50.56	-13	-37.56	-66.94	-56.78	1.59	7.81	V
	5184	-47.63	-13	-34.63	-69.6	-54.89	2.44	9.70	V
	6912	-49.20	-13	-36.20	-76.14	-57.28	2.62	10.69	V
Highest	3490	-48.67	-13	-35.67	-65.75	-55.02	1.60	7.96	H
	5240	-53.25	-13	-40.25	-75.93	-60.47	2.48	9.70	H
	6983	-49.09	-13	-36.09	-76.62	-57.27	2.60	10.78	H
	3490	-50.77	-13	-37.77	-68.04	-57.12	1.60	7.96	V
	5240	-51.64	-13	-38.64	-74.29	-58.86	2.48	9.70	V
	6983	-49.00	-13	-36.00	-76.43	-57.18	2.60	10.78	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	3420	-45.62	-13	-32.62	-62.49	-51.69	1.58	7.65	H
	5135	-52.19	-13	-39.19	-74.92	-59.48	2.41	9.70	H
	6850	-50.24	-13	-37.24	-76.97	-58.22	2.64	10.62	H
	3420	-49.35	-13	-36.35	-65.86	-55.42	1.58	7.65	V
	5135	-51.65	-13	-38.65	-73.61	-58.94	2.41	9.70	V
	6850	-50.51	-13	-37.51	-76.84	-58.49	2.64	10.62	V
Middle	3452	-52.59	-13	-39.59	-69.51	-58.79	1.59	7.79	H
	5176	-50.78	-13	-37.78	-73.51	-58.04	2.44	9.70	H
	6904	-48.94	-13	-35.94	-76.02	-57	2.62	10.68	H
	3452	-55.69	-13	-42.69	-72.25	-61.89	1.59	7.79	V
	5176	-50.94	-13	-37.94	-73.08	-58.2	2.44	9.70	V
	6904	-49.93	-13	-36.93	-76.72	-57.99	2.62	10.68	V
Highest	3483	-48.90	-13	-35.90	-66.05	-55.23	1.60	7.93	H
	5226	-52.77	-13	-39.77	-75.4	-60	2.47	9.70	H
	6969	-48.68	-13	-35.68	-76.11	-56.84	2.60	10.76	H
	3483	-52.43	-13	-39.43	-69.58	-58.76	1.60	7.93	V
	5226	-52.54	-13	-39.54	-75.12	-59.77	2.47	9.70	V
	6969	-49.03	-13	-36.03	-76.32	-57.19	2.60	10.76	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	3424	-46.27	-13	-33.27	-62.92	-52.36	1.58	7.67	H
	5132	-53.77	-13	-40.77	-76.56	-61.06	2.41	9.70	H
	6848	-49.86	-13	-36.86	-76.72	-57.84	2.64	10.62	H
	3424	-49.25	-13	-36.25	-65.67	-55.34	1.58	7.67	V
	5132	-51.81	-13	-38.81	-73.73	-59.1	2.41	9.70	V
	6848	-50.05	-13	-37.05	-76.57	-58.03	2.64	10.62	V
Middle	3448	-48.64	-13	-35.64	-65.48	-54.82	1.59	7.77	H
	5172	-52.03	-13	-39.03	-74.76	-59.29	2.44	9.70	H
	6896	-49.22	-13	-36.22	-76.3	-57.27	2.62	10.68	H
	3448	-54.43	-13	-41.43	-71.02	-60.61	1.59	7.77	V
	5172	-48.74	-13	-35.74	-70.81	-56	2.44	9.70	V
	6896	-50.17	-13	-37.17	-77	-58.22	2.62	10.68	V
Highest	3472	-49.44	-13	-36.44	-66.48	-55.72	1.60	7.88	H
	5208	-52.96	-13	-39.96	-75.61	-60.2	2.46	9.70	H
	6944	-48.76	-13	-35.76	-75.94	-56.88	2.61	10.73	H
	3472	-52.67	-13	-39.67	-69.51	-58.95	1.60	7.88	V
	5208	-52.17	-13	-39.17	-74.62	-59.41	2.46	9.70	V
	6944	-48.78	-13	-35.78	-76.02	-56.9	2.61	10.73	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	-30.64	-25	-5.64	-53.39	-38	2.34	9.70	H
	7500	-39.95	-25	-14.95	-68.73	-49.32	2.43	11.80	H
	10000	-42.52	-25	-17.52	-74.09	-52.02	2.70	12.20	H
	12500	-35.16	-25	-10.16	-71.15	-44.76	2.80	12.40	H
	5000	-30.68	-25	-5.68	-51.95	-38.04	2.34	9.70	V
	7500	-43.87	-25	-18.87	-72.22	-53.24	2.43	11.80	V
	10000	-45.04	-25	-20.04	-74.92	-54.54	2.70	12.20	V
	12504	-35.02	-25	-10.02	-70.49	-44.62	2.81	12.40	V
Middle	5064	-34.67	-25	-9.67	-57.48	-42	2.37	9.70	H
	7596	-42.31	-25	-17.31	-70.68	-51.77	2.40	11.86	H
	12660	-38.10	-25	-13.10	-75.01	-47.85	2.84	12.59	H
	5064	-31.53	-25	-6.53	-53.05	-38.86	2.37	9.70	V
	7596	-45.08	-25	-20.08	-73.16	-54.54	2.40	11.86	V
	12660	-39.30	-25	-14.30	-74.95	-49.05	2.84	12.59	V
Highest	5136	-39.15	-25	-14.15	-61.91	-46.43	2.42	9.70	H
	7692	-39.45	-25	-14.45	-68.83	-49	2.37	11.92	H
	10260	-43.60	-25	-18.60	-75.5	-53.21	2.69	12.30	H
	12828	-36.72	-25	-11.72	-74.46	-46.63	2.89	12.79	H
	5136	-36.73	-25	-11.73	-58.64	-44.01	2.42	9.70	V
	7692	-43.12	-25	-18.12	-71.1	-52.67	2.37	11.92	V
	10260	-42.13	-25	-17.13	-72.59	-51.74	2.69	12.30	V
	12828	-37.80	-25	-12.80	-73.64	-47.71	2.89	12.79	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	5000	-30.84	-25	-5.84	-53.75	-38.2	2.34	9.70	H
	7504	-40.66	-25	-15.66	-69.37	-50.03	2.43	11.80	H
	10004	-44.25	-25	-19.25	-75.74	-53.75	2.70	12.20	H
	5004	-33.26	-25	-8.26	-54.49	-40.62	2.34	9.70	V
	7504	-47.41	-25	-22.41	-75.64	-56.78	2.43	11.80	V
	10004	-45.66	-25	-20.66	-75.58	-55.16	2.70	12.20	V
Middle	5064	-32.79	-25	-7.79	-55.56	-40.12	2.37	9.70	H
	7596	-42.21	-25	-17.21	-70.66	-51.67	2.40	11.86	H
	10128	-46.67	-25	-21.67	-78.23	-56.23	2.70	12.25	H
	5064	-29.97	-25	-4.97	-51.62	-37.3	2.37	9.70	V
	7596	-45.18	-25	-20.18	-73.09	-54.64	2.40	11.86	V
	12648	-37.97	-25	-12.97	-73.58	-47.71	2.84	12.58	V
Highest	5120	-35.56	-25	-10.56	-58.27	-42.85	2.41	9.70	H
	7684	-39.37	-25	-14.37	-67.79	-48.91	2.37	11.91	H
	10244	-43.06	-25	-18.06	-74.69	-52.66	2.69	12.30	H
	5120	-34.95	-25	-9.95	-56.8	-42.24	2.41	9.70	V
	7680	-41.74	-25	-16.74	-69.69	-51.28	2.37	11.91	V
	10244	-43.40	-25	-18.40	-73.87	-53	2.69	12.30	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	5004	-32.03	-25	-7.03	-54.92	-39.39	2.34	9.70	H
	7500	-42.92	-25	-17.92	-71.69	-52.29	2.43	11.80	H
	12504	-35.94	-25	-10.94	-72.16	-45.54	2.81	12.40	H
	5004	-30.88	-25	-5.88	-52.23	-38.24	2.34	9.70	V
	7500	-44.63	-25	-19.63	-73.04	-54	2.43	11.80	V
	12504	-36.88	-25	-11.88	-72.26	-46.48	2.81	12.40	V
Middle	5052	-32.59	-25	-7.59	-55.21	-39.92	2.37	9.70	H
	7584	-42.58	-25	-17.58	-70.91	-52.03	2.40	11.85	H
	10104	-46.62	-25	-21.62	-78.33	-56.17	2.70	12.24	H
	5052	-30.46	-25	-5.46	-51.92	-37.79	2.37	9.70	V
	7584	-44.10	-25	-19.10	-72.11	-53.55	2.40	11.85	V
	12636	-39.38	-25	-14.38	-74.95	-49.1	2.84	12.56	V
Highest	5112	-36.38	-25	-11.38	-59.14	-43.68	2.40	9.70	H
	7668	-42.80	-25	-17.80	-71.16	-52.33	2.38	11.90	H
	10224	-45.08	-25	-20.08	-76.69	-54.67	2.69	12.29	H
	5112	-33.45	-25	-8.45	-55.4	-40.75	2.40	9.70	V
	7668	-46.61	-25	-21.61	-74.56	-56.14	2.38	11.90	V
	10224	-45.18	-25	-20.18	-75.58	-54.77	2.69	12.29	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	5004	-30.03	-25	-5.03	-52.92	-37.39	2.34	9.70	H
	7500	-41.85	-25	-16.85	-70.6	-51.22	2.43	11.80	H
	12504	-37.25	-25	-12.25	-73.4	-46.85	2.81	12.40	H
	5004	-29.46	-25	-4.46	-50.86	-36.82	2.34	9.70	V
	7500	-44.78	-25	-19.78	-73.19	-54.15	2.43	11.80	V
	12504	-36.56	-25	-11.56	-71.94	-46.16	2.81	12.40	V
Middle	5052	-33.55	-25	-8.55	-56.16	-40.88	2.37	9.70	H
	7584	-41.16	-25	-16.16	-69.63	-50.61	2.40	11.85	H
	12636	-39.54	-25	-14.54	-76.3	-49.26	2.84	12.56	H
	5052	-28.34	-25	-3.34	-49.79	-35.67	2.37	9.70	V
	7584	-44.24	-25	-19.24	-72.22	-53.69	2.40	11.85	V
	12636	-39.06	-25	-14.06	-74.57	-48.78	2.84	12.56	V
Highest	5100	-36.58	-25	-11.58	-59.3	-43.89	2.39	9.70	H
	7656	-42.00	-25	-17.00	-70.45	-51.51	2.38	11.89	H
	10200	-44.95	-25	-19.95	-76.58	-54.53	2.70	12.28	H
	5100	-33.07	-25	-8.07	-54.85	-40.38	2.39	9.70	V
	7656	-43.81	-25	-18.81	-71.68	-53.32	2.38	11.89	V
	10200	-44.01	-25	-19.01	-74.5	-53.59	2.70	12.28	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	1411	-45.42	-13	-32.42	-55.81	-47.15	0.87	4.75	H
	2116	-53.88	-13	-40.88	-66.81	-54.81	1.17	4.25	H
	2821	-55.50	-13	-42.50	-70.95	-57.62	1.39	5.66	H
	1411	-53.91	-13	-40.91	-63.36	-55.64	0.87	4.75	V
	2116	-57.52	-13	-44.52	-71.21	-58.45	1.17	4.25	V
	2821	-50.54	-13	-37.54	-66.91	-52.66	1.39	5.66	V
Middle	1420	-49.62	-13	-36.62	-59.92	-51.40	0.88	4.80	H
	2128	-58.36	-13	-45.36	-71.24	-59.32	1.17	4.28	H
	2833	-59.05	-13	-46.05	-74.86	-61.17	1.40	5.67	H
	1420	-60.16	-13	-47.16	-69.31	-61.94	0.88	4.80	V
	2125	-60.40	-13	-47.40	-74.14	-61.35	1.17	4.28	V
	2833	-59.32	-13	-46.32	-75.57	-61.44	1.40	5.67	V
Highest	1426	-52.32	-13	-39.32	-62.67	-54.13	0.88	4.84	H
	2137	-56.16	-13	-43.16	-69.32	-57.14	1.18	4.31	H
	2848	-58.97	-13	-45.97	-74.56	-61.10	1.40	5.68	H
	1426	-59.37	-13	-46.37	-68.41	-61.18	0.88	4.84	V
	2137	-57.44	-13	-44.44	-71.57	-58.42	1.18	4.31	V
	2848	-59.12	-13	-46.12	-75.38	-61.25	1.40	5.68	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	1411	-47.30	-13	-34.30	-57.57	-49.03	0.87	4.75	H
	2116	-54.92	-13	-41.92	-67.76	-55.85	1.17	4.25	H
	2821	-56.51	-13	-43.51	-71.74	-58.63	1.39	5.66	H
	1411	-56.03	-13	-43.03	-65.50	-57.76	0.87	4.75	V
	2116	-57.07	-13	-44.07	-70.68	-58.00	1.17	4.25	V
	2821	-58.90	-13	-45.90	-75.19	-61.02	1.39	5.66	V
Middle	1414	-45.15	-13	-32.15	-55.49	-46.89	0.87	4.77	H
	2119	-55.48	-13	-42.48	-68.34	-56.42	1.17	4.26	H
	2824	-58.55	-13	-45.55	-73.94	-60.67	1.39	5.66	H
	1414	-56.51	-13	-43.51	-66.08	-58.25	0.87	4.77	V
	2119	-59.06	-13	-46.06	-72.77	-60.00	1.17	4.26	V
	2824	-59.04	-13	-46.04	-75.45	-61.16	1.39	5.66	V
Highest	1417	-45.74	-13	-32.74	-56.12	-47.50	0.88	4.79	H
	2122	-55.38	-13	-42.38	-68.29	-56.32	1.17	4.27	H
	2830	-56.52	-13	-43.52	-72.23	-58.64	1.39	5.66	H
	1417	-53.97	-13	-40.97	-63.07	-55.73	0.88	4.79	V
	2122	-57.50	-13	-44.50	-71.19	-58.44	1.17	4.27	V
	2830	-58.50	-13	-45.50	-74.77	-60.62	1.39	5.66	V

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