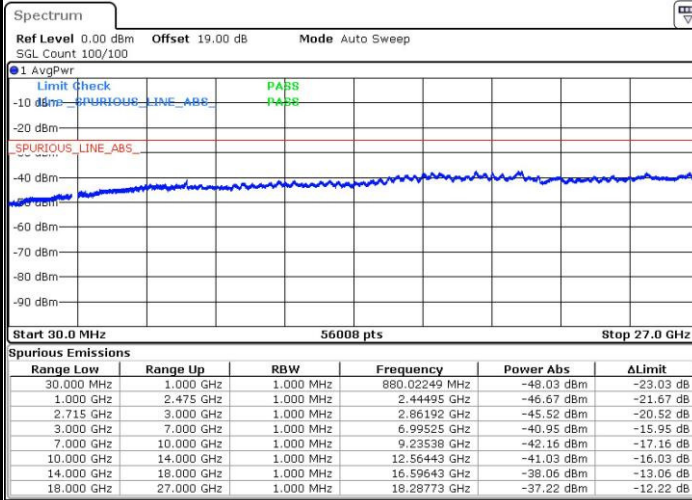




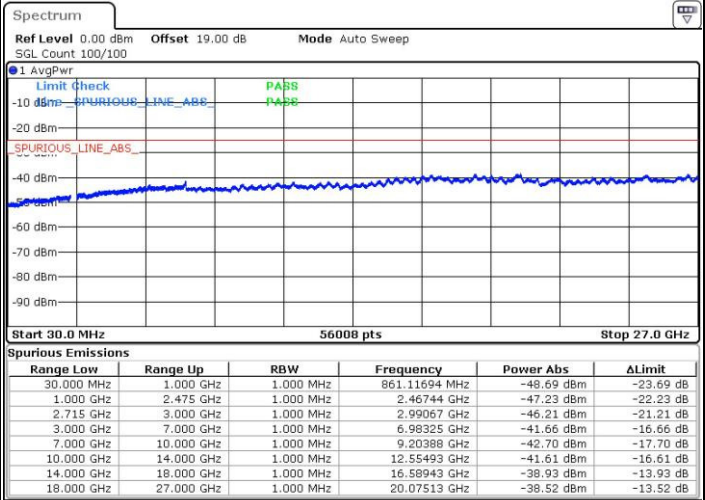
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 27.JUL.2016 04:32:06

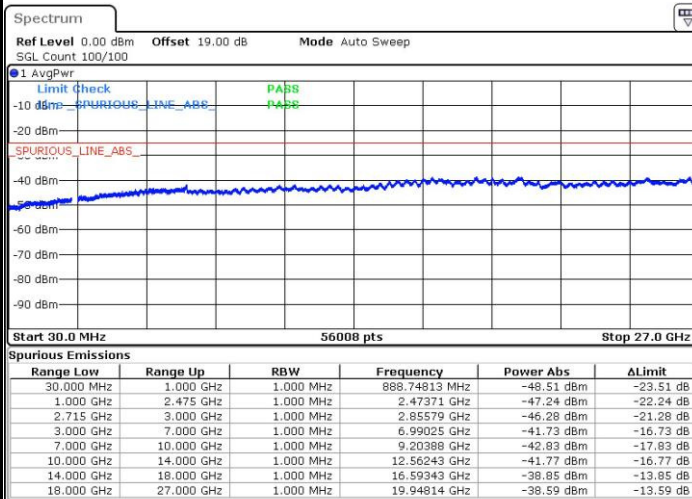
Highest Channel / 16QAM



Date: 27.JUL.2016 04:33:02

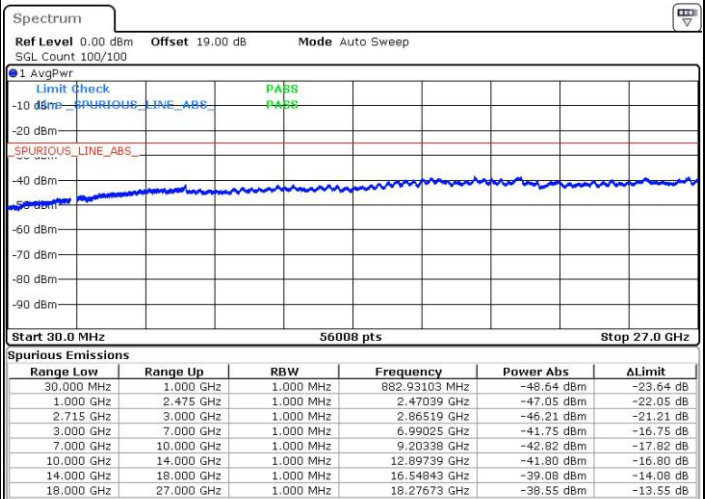
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 27.JUL.2016 04:33:59

Lowest Channel / 16QAM

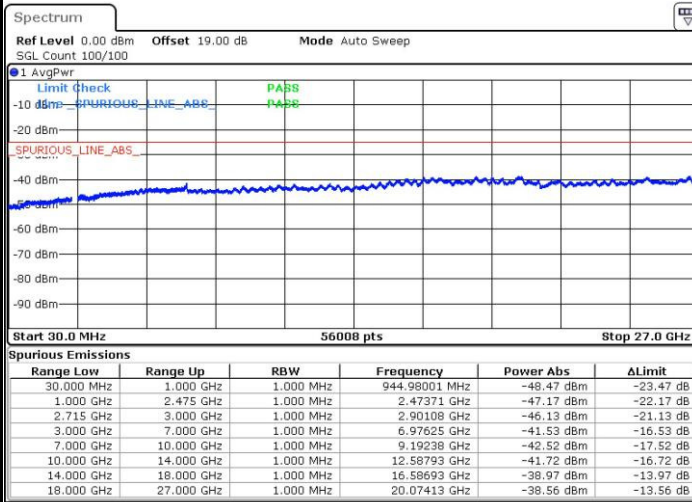


Date: 27.JUL.2016 04:34:55



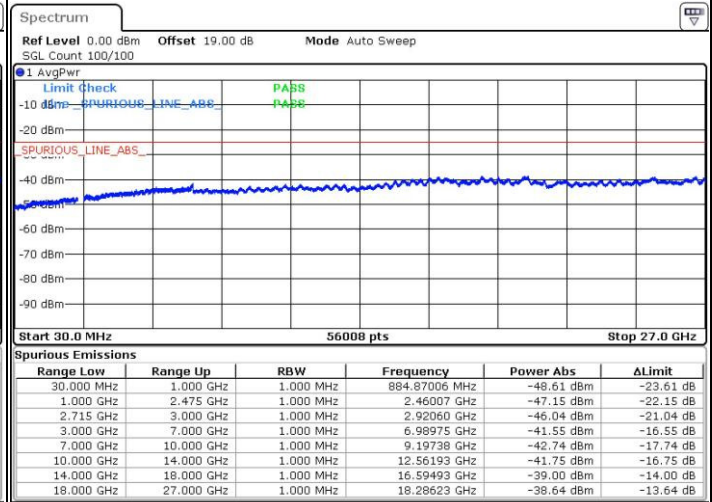
LTE Band 41 / 10MHz

Middle Channel / QPSK



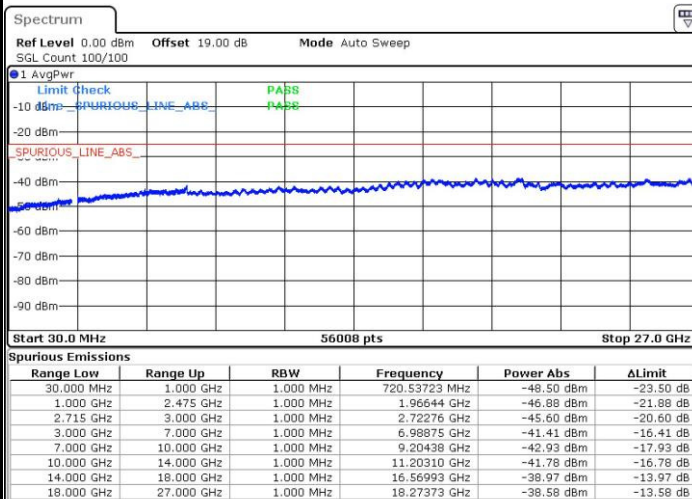
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Middle Channel / 16QAM



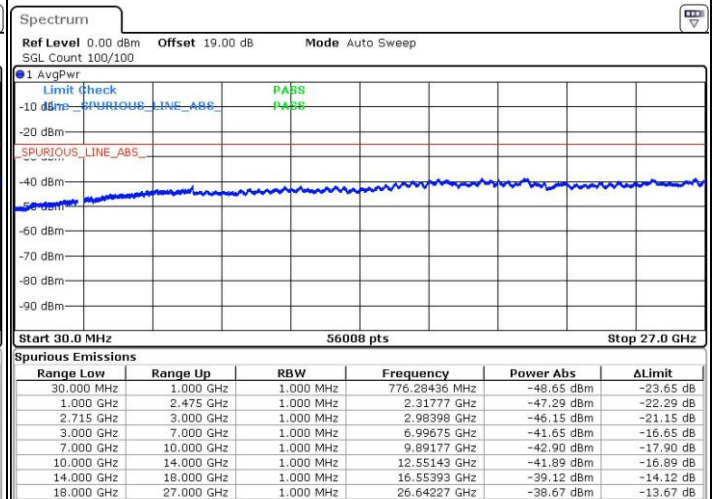
Date: 27.JUL.2016 04:36:49

Highest Channel / QPSK



Date: 27.JUL.2016 04:37:45

Highest Channel / 16QAM

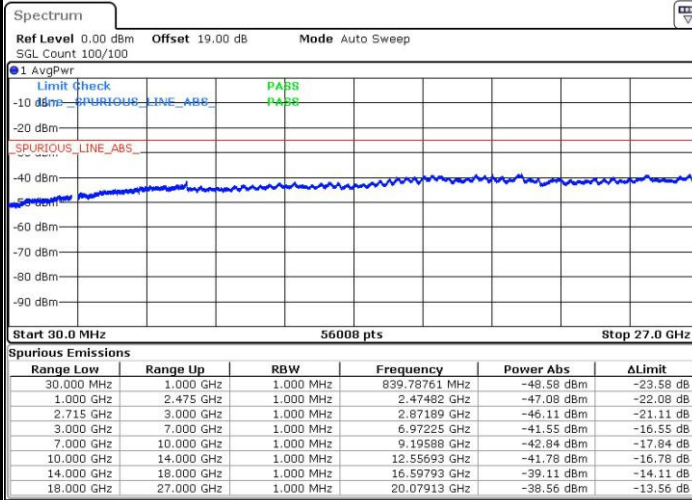


Date: 27.JUL.2016 04:38:42



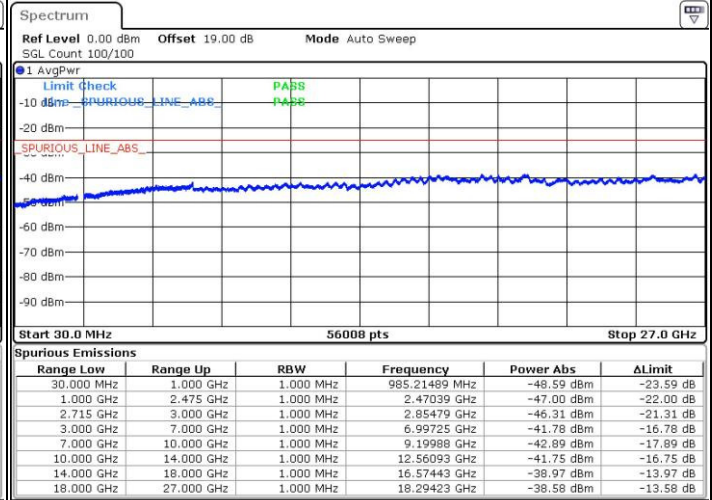
LTE Band 41 / 15MHz

Lowest Channel / QPSK



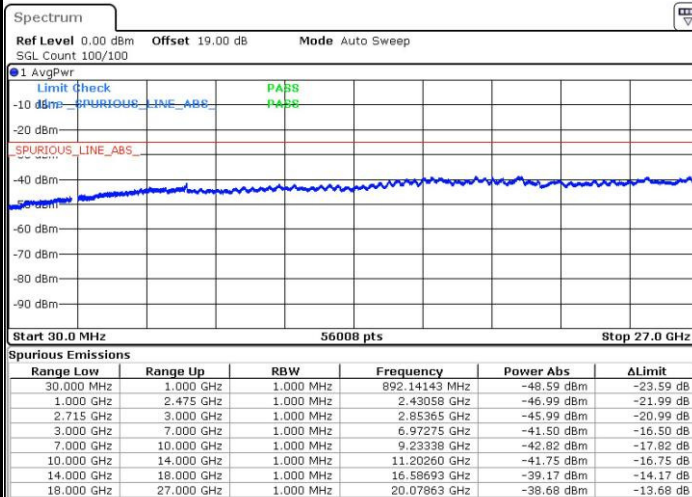
Date: 27.JUL.2016 04:39:38

Lowest Channel / 16QAM



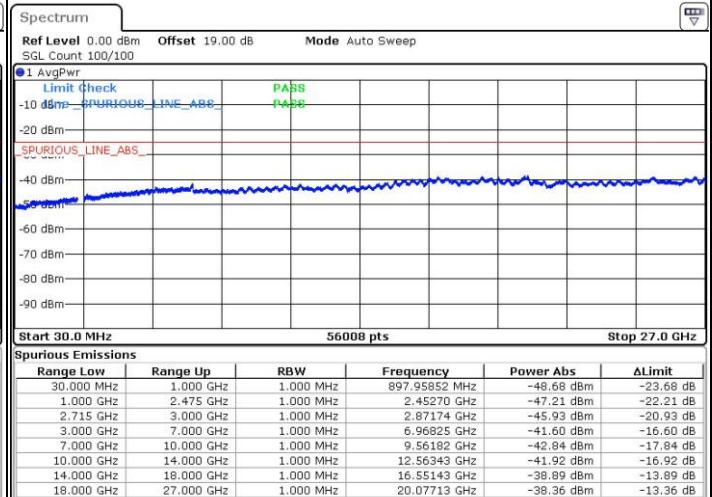
Date: 27.JUL.2016 04:40:34

Middle Channel / QPSK



Date: 27.JUL.2016 04:41:30

Middle Channel / 16QAM

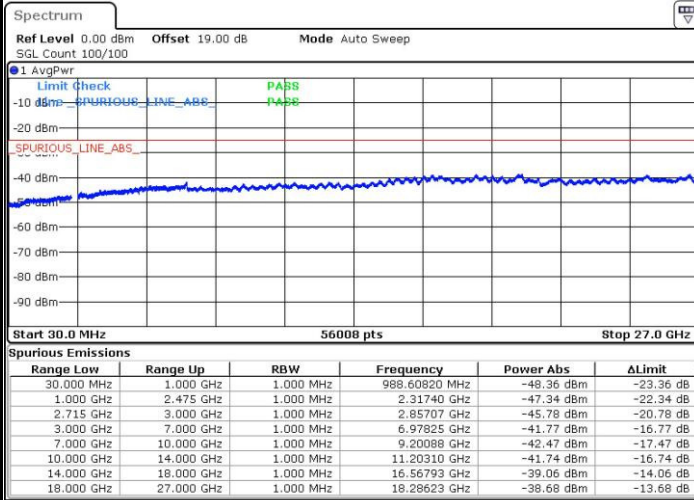


Date: 27.JUL.2016 04:42:27



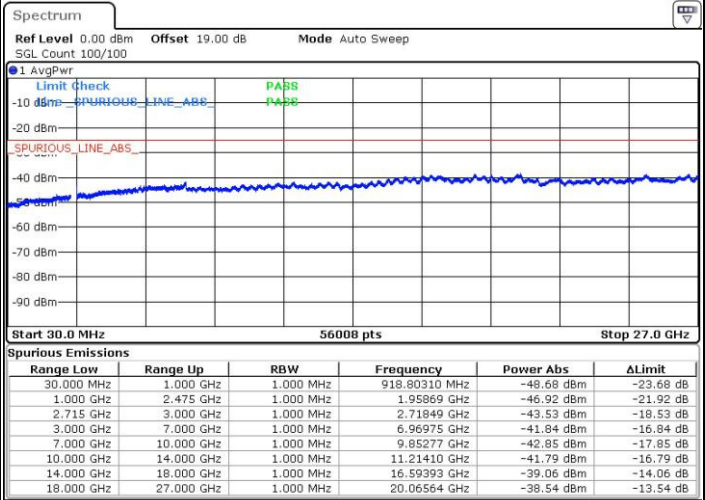
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 27.JUL.2016 04:43:23

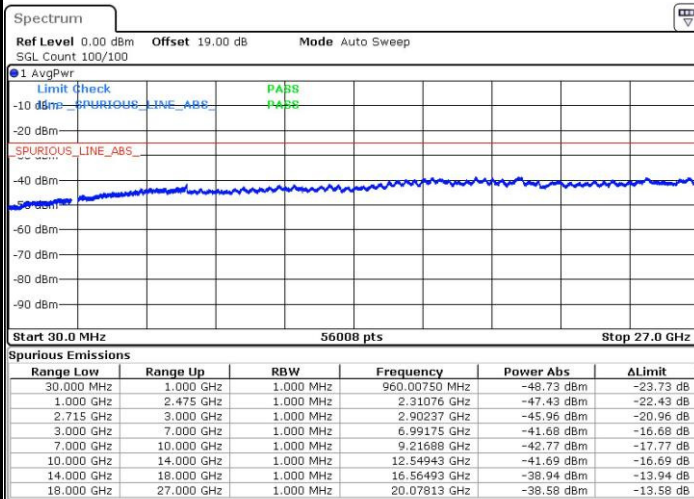
Highest Channel / 16QAM



Date: 27.JUL.2016 04:44:19

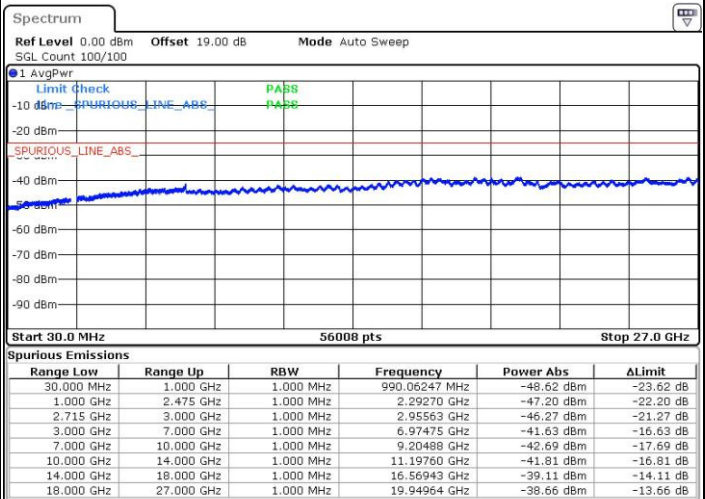
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 27.JUL.2016 04:45:15

Lowest Channel / 16QAM

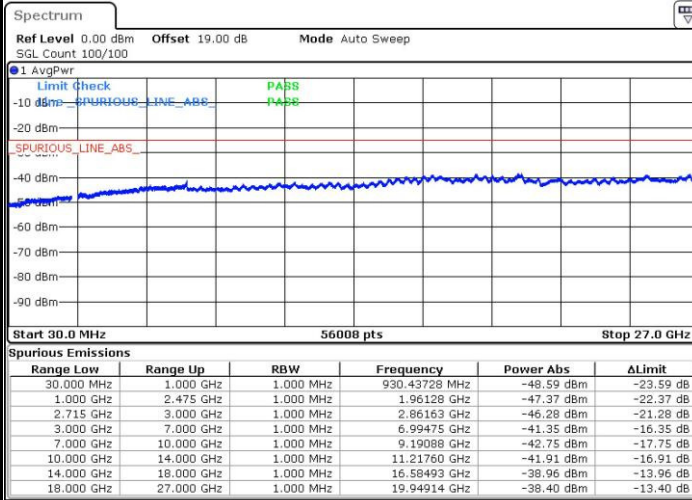


Date: 27.JUL.2016 04:46:12



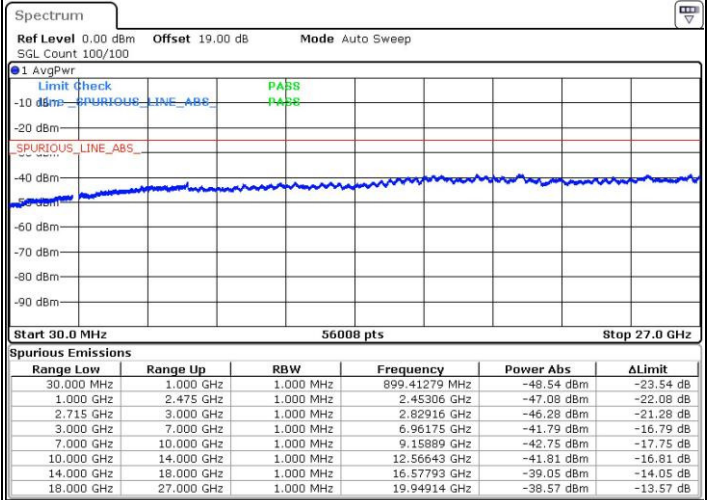
LTE Band 41 / 20MHz

Middle Channel / QPSK



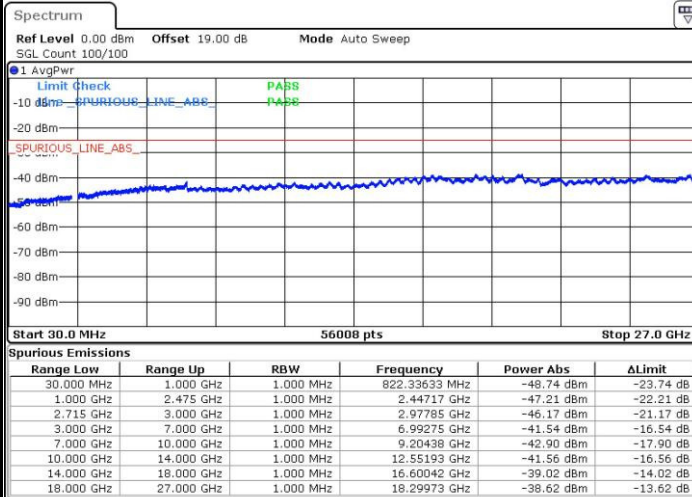
Date: 27.JUL.2016 04:47:08

Middle Channel / 16QAM



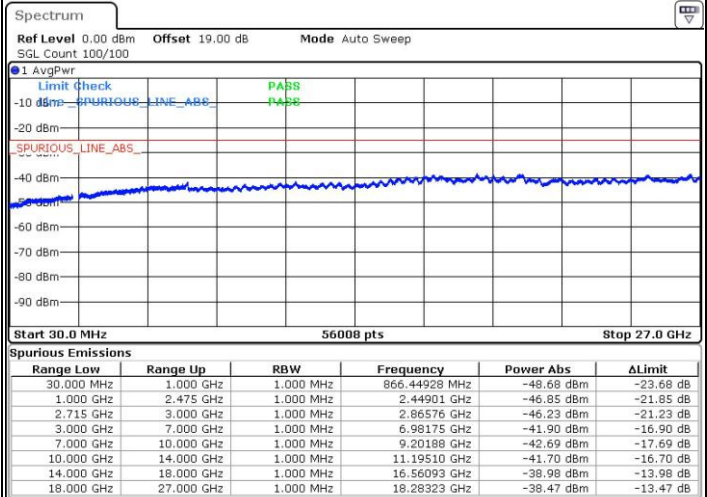
Date: 27.JUL.2016 04:48:04

Highest Channel / QPSK



Date: 27.JUL.2016 04:49:00

Highest Channel / 16QAM



Date: 27.JUL.2016 04:49:56

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0072	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0084	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 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 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0077	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0046	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 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 26 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	8.77	0.0075	4.21	0.0026
Middle		3	1	10.64	0.0116	6.10	0.0041
Highest		3	1	13.12	0.0205	8.18	0.0066
Lowest	16QAM	1	5	8.98	0.0079	2.35	0.0017
Middle		3	1	10.66	0.0116	4.07	0.0026
Highest		3	1	12.40	0.0174	5.12	0.0033
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	10.52	0.0113	5.05	0.0032
Middle		1	8	11.12	0.0129	5.80	0.0038
Highest		1	8	13.39	0.0218	7.36	0.0054
Lowest	16QAM	1	0	8.72	0.0075	3.05	0.0020
Middle		1	8	10.56	0.0114	5.00	0.0032
Highest		1	8	12.05	0.0160	6.20	0.0042
Limit	ERP < 7W			Result		PASS	



LTE Band 26 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	10.65	0.0116	5.38	0.0035
Middle		1	12	11.95	0.0157	6.36	0.0043
Highest		1	12	13.64	0.0231	7.11	0.0051
Lowest	16QAM	1	24	9.08	0.0081	3.37	0.0022
Middle		1	0	11.22	0.0132	5.41	0.0035
Highest		1	12	12.79	0.0190	6.41	0.0044
Limit	ERP < 7W			Result		PASS	

LTE Band 26/ 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	10.97	0.0125	5.38	0.0035
Middle		1	25	11.84	0.0153	6.28	0.0042
Highest		1	25	12.94	0.0197	7.05	0.0051
Lowest	16QAM	1	25	10.28	0.0107	4.62	0.0029
Middle		1	25	11.20	0.0132	5.38	0.0035
Highest		1	25	12.28	0.0169	6.10	0.0041
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
26765	QPSK	1	12	10.19	0.0104	4.56	0.0029
Lowest		1	37	11.36	0.0137	5.81	0.0038
Middle		1	37	11.90	0.0155	6.34	0.0043
Highest		1	74	12.51	0.0178	6.75	0.0047
26765	16QAM	1	12	9.30	0.0085	3.51	0.0022
Lowest		1	37	10.63	0.0116	5.00	0.0032
Middle		1	37	11.31	0.0135	5.61	0.0036
Highest		1	37	11.50	0.0141	5.14	0.0033
Limit	ERP < 7W			Result		PASS	



LTE Band 41 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	15.24	0.0334	14.44	0.0278
Middle		1	12	15.12	0.0325	14.51	0.0283
Highest		1	12	18.21	0.0662	16.85	0.0484
Lowest	16QAM	1	12	14.56	0.0286	12.52	0.0179
Middle		1	12	14.58	0.0287	12.10	0.0162
Highest		1	12	17.67	0.0585	15.68	0.0370
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	15.17	0.0329	14.48	0.0281
Middle		1	25	15.21	0.0332	14.44	0.0278
Highest		1	25	18.11	0.0647	16.85	0.0484
Lowest	16QAM	1	25	14.31	0.0270	13.63	0.0231
Middle		1	25	13.81	0.0240	12.90	0.0195
Highest		1	25	16.79	0.0478	15.31	0.0340
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	15.39	0.0346	14.63	0.0290
Middle		1	37	15.41	0.0347	14.44	0.0278
Highest		1	37	18.14	0.0652	17.10	0.0513
Lowest	16QAM	1	37	14.25	0.0266	13.59	0.0229
Middle		1	37	14.02	0.0252	13.23	0.0211
Highest		1	37	16.98	0.0498	16.00	0.0399
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	15.48	0.0353	14.97	0.0314
Middle		1	49	15.94	0.0393	15.09	0.0323
Highest		1	49	18.14	0.0651	17.21	0.0526
Lowest	16QAM	1	49	13.86	0.0243	13.25	0.0211
Middle		1	49	14.13	0.0259	13.24	0.0211
Highest		1	49	16.72	0.0470	15.34	0.0342
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission**

LTE Band 26 / 1.4MHz / 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)
Middle	1671.92	-61.67	-13	-48.67	-64.50	-68.36	0.56	9.40	H
	2507.88	-42.28	-13	-29.28	-51.11	-49.99	0.74	10.60	H
	3343.84	-58.29	-13	-45.29	-67.10	-67.89	0.85	12.60	H
	1671.92	-63.50	-13	-50.50	-65.16	-70.19	0.56	9.40	V
	2507.88	-47.93	-13	-34.93	-54.97	-55.64	0.74	10.60	V
	3343.84	-58.93	-13	-45.93	-67.07	-68.53	0.85	12.60	V

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

LTE Band 26 / 3MHz / 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)
Middle	1670.48	-62.48	-13	-49.48	-65.31	-69.17	0.56	9.40	H
	2505.72	-41.71	-13	-28.71	-50.65	-49.42	0.74	10.60	H
	3340.96	-58.60	-13	-45.60	-67.41	-68.20	0.85	12.60	H
	1670.48	-63.41	-13	-50.41	-65.07	-70.10	0.56	9.40	V
	2505.72	-47.82	-13	-34.82	-54.87	-55.53	0.74	10.60	V
	3340.96	-59.28	-13	-46.28	-67.42	-68.88	0.85	12.60	V

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



LTE Band 26 / 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)
Middle	1668.68	-60.18	-13	-47.18	-63.01	-66.87	0.56	9.40	H
	2503.02	-39.76	-13	-26.76	-49.06	-47.47	0.74	10.60	H
	3337.36	-57.68	-13	-44.68	-66.49	-67.28	0.85	12.60	H
	1668.68	-63.42	-13	-50.42	-65.08	-70.11	0.56	9.40	V
	2503.02	-47.32	-13	-34.32	-54.40	-55.03	0.74	10.60	V
	3337.36	-59.55	-13	-46.55	-67.69	-69.15	0.85	12.60	V

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

LTE Band 26 / 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)
Middle	1664.18	-60.02	-13	-47.02	-62.85	-66.71	0.56	9.40	H
	2496.27	-40.41	-13	-27.41	-49.55	-48.12	0.74	10.60	H
	3328.36	-58.45	-13	-45.45	-67.26	-68.05	0.85	12.60	H
	1664.18	-62.27	-13	-49.27	-63.93	-68.96	0.56	9.40	V
	2496.27	-46.39	-13	-33.39	-53.71	-54.10	0.74	10.60	V
	3328.36	-59.44	-13	-46.44	-67.58	-69.04	0.85	12.60	V

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



LTE Band 26 / 15MHz / 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)
Middle	1659.68	-56.53	-13	-43.53	-59.36	-63.22	0.56	9.40	H
	2489.52	-40.78	-13	-27.78	-49.80	-48.49	0.74	10.60	H
	3319.36	-58.16	-13	-45.16	-66.97	-67.76	0.85	12.60	H
	1659.68	-61.34	-13	-48.34	-63.00	-68.03	0.56	9.40	V
	2489.52	-46.45	-13	-33.45	-53.75	-54.16	0.74	10.60	V
	3319.36	-59.17	-13	-46.17	-67.31	-68.77	0.85	12.60	V

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

LTE Band 26 / 15MHz / QPSK / RB Size 1 Offset 0 CH26765									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1629.68	-56.80	-13	-43.80	-59.63	-63.49	0.56	9.40	H
	2444.52	-44.21	-13	-31.21	-52.48	-51.92	0.74	10.60	H
	3259.36	-58.33	-13	-45.33	-67.14	-67.93	0.85	12.60	H
	1629.68	-61.85	-13	-48.85	-63.51	-68.54	0.56	9.40	V
	2444.52	-52.48	-13	-39.48	-58.23	-60.19	0.74	10.60	V
	3259.36	-59.04	-13	-46.04	-67.18	-68.64	0.85	12.60	V



LTE Band 41 / 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)
Middle	5181.7	-30.00	-25	-5.00	-48.13	-35.01	7.69	12.70	H
	7772.5	-29.97	-25	-4.97	-51.62	-31.70	9.57	11.30	H
	10363.4	-48.06	-25	-23.06	-72.72	-48.96	11.2	12.10	H
	12954.2	-44.58	-25	-19.58	-73.50	-45.43	12.75	13.60	H
	5181.7	-27.87	-25	-2.87	-47.45	-32.88	7.69	12.70	V
	7772.5	-30.15	-25	-5.15	-50.84	-31.88	9.57	11.30	V
	10363.4	-48.36	-25	-23.36	-70.9	-49.26	11.2	12.10	V
	12954.0	-44.16	-25	-19.16	-72.48	-45.01	12.75	13.60	V

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

LTE Band 41 / 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)
Middle	5177.2	-31.44	-25	-6.44	-49.34	-36.45	7.69	12.70	H
	7765.8	-31.07	-25	-6.07	-52.30	-32.80	9.57	11.30	H
	10354.4	-46.15	-25	-21.15	-70.81	-47.05	11.2	12.10	H
	12943.0	-44.34	-25	-19.34	-73.26	-45.19	12.75	13.60	H
	5177.2	-30.08	-25	-5.08	-49.3	-35.09	7.69	12.70	V
	7765.8	-28.54	-25	-3.54	-49.39	-30.27	9.57	11.30	V
	10354.4	-45.29	-25	-20.29	-67.83	-46.19	11.2	12.10	V
	12943.0	-43.95	-25	-18.95	-72.27	-44.80	12.75	13.60	V

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



LTE Band 41 / 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)
Middle	5173	-30.92	-25	-5.92	-48.94	-35.93	7.69	12.70	H
	7759	-31.00	-25	-6.00	-52.24	-32.73	9.57	11.30	H
	10345	-46.62	-25	-21.62	-71.28	-47.52	11.2	12.10	H
	12932	-43.84	-25	-18.84	-72.76	-44.69	12.75	13.60	H
	5173	-29.73	-25	-4.73	-48.99	-34.74	7.69	12.70	V
	7759	-31.03	-25	-6.03	-51.94	-32.76	9.57	11.30	V
	10345	-46.04	-25	-21.04	-68.58	-46.94	11.2	12.10	V
	12932	-43.76	-25	-18.76	-72.08	-44.61	12.75	13.60	V

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

LTE Band 41 / 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)
Middle	5168	-30.96	-25	-5.96	-48.98	-35.97	7.69	12.70	H
	7752	-30.05	-25	-5.05	-51.68	-31.78	9.57	11.30	H
	10336	-45.77	-25	-20.77	-70.43	-46.67	11.2	12.10	H
	12920	-44.91	-25	-19.91	-73.83	-45.76	12.75	13.60	H
	5168	-30.00	-25	-5.00	-49.44	-35.01	7.69	12.70	V
	7752	-30.84	-25	-5.84	-51.72	-32.57	9.57	11.30	V
	10336	-45.55	-25	-20.55	-68.09	-46.45	11.2	12.10	V
	12920	-44.30	-25	-19.30	-72.62	-45.15	12.75	13.60	V

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