5.4. Peak-to-Average Power Ratio (PAPR)

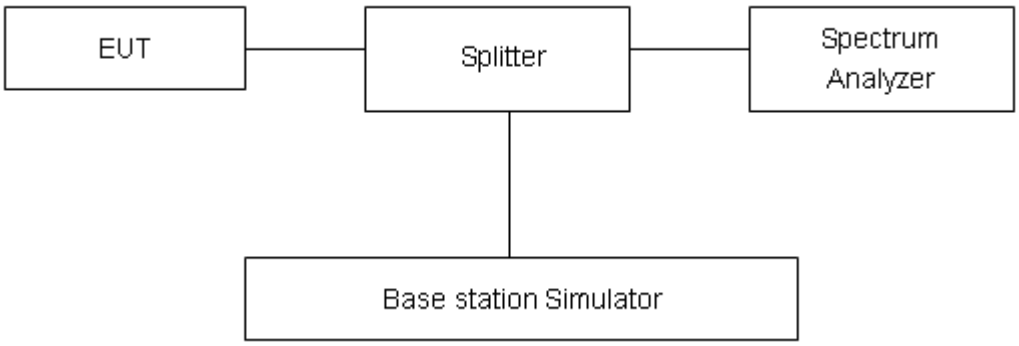
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (*e.g.*, dBm). Determine the PAPR from:
PAPR (dB) = PPk (dBm) - PAvg (dBm).

Test Setup



Limits

In measuring transmissions in this band using an average power technique, the peakto-average ratio (PAR) of the transmission may not exceed 13 dB in 24.232(d).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the

normal distribution is with the coverage factor k = 2, U= 0.4 dB.

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Test Results

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
GSM 1900 (GMSK)	512	1850.2	31.59	30.00	1.59	≤13	PASS
	661	1880	31.56	30.05	1.51	≤13	PASS
	810	1909.8	31.60	30.05	1.55	≤13	PASS
GPRS 1900 (GMSK)	512	1850.2	31.48	29.99	1.49	≤13	PASS
	661	1880	31.56	30.01	1.55	≤13	PASS
	810	1909.8	31.53	29.99	1.54	≤13	PASS
EGPRS 1900 (8PSK)	512	1850.2	28.35	26.35	2.00	≤13	PASS
	661	1880	28.29	26.24	2.05	≤13	PASS
	810	1909.8	28.54	26.46	2.08	≤13	PASS
WCDMA Band II (RMC)	9262	1852.4	25.89	22.87	3.02	≤13	PASS
	9400	1880	26.39	23.39	3.00	≤13	PASS
	9538	1907.6	26.25	23.36	2.89	≤13	PASS

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LTE Band 2								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	18607	1850.7	28.00	22.74	5.26	≤13	PASS
		18900	1880.0	28.07	22.68	5.39	≤13	PASS
		19193	1909.3	28.31	23.76	4.55	≤13	PASS
	3	18615	1851.5	28.06	22.77	5.29	≤13	PASS
		18900	1880	28.09	22.70	5.39	≤13	PASS
		19185	1908.5	28.28	23.63	4.65	≤13	PASS
	5	18625	1852.5	28.05	22.70	5.35	≤13	PASS
		18900	1880	28.07	22.65	5.42	≤13	PASS
		19175	1907.5	28.23	23.48	4.75	≤13	PASS
	10	18650	1855	28.00	22.61	5.39	≤13	PASS
		18900	1880	28.02	22.68	5.34	≤13	PASS
		19150	1905	28.15	23.20	4.95	≤13	PASS
	15	18675	1857.5	28.42	22.68	5.74	≤13	PASS
		18900	1880	28.43	22.75	5.68	≤13	PASS
		19125	1902.5	28.36	22.84	5.52	≤13	PASS
	20	18700	1860	28.14	22.64	5.50	≤13	PASS
		18900	1880	28.17	22.70	5.47	≤13	PASS
		19100	1900	27.80	22.29	5.51	≤13	PASS
16QAM	1.4	18607	1850.7	27.79	21.67	6.12	≤13	PASS
		18900	1880.0	27.91	21.64	6.27	≤13	PASS
		19193	1909.3	28.07	22.49	5.58	≤13	PASS
	3	18615	1851.5	27.82	21.65	6.17	≤13	PASS
		18900	1880	27.87	21.59	6.28	≤13	PASS
		19185	1908.5	28.05	22.41	5.64	≤13	PASS
	5	18625	1852.5	27.71	21.60	6.11	≤13	PASS
		18900	1880	27.81	21.58	6.23	≤13	PASS
		19175	1907.5	28.01	22.39	5.62	≤13	PASS
	10	18650	1855	27.79	21.71	6.08	≤13	PASS
		18900	1880	27.78	21.57	6.21	≤13	PASS
		19150	1905	28.06	22.28	5.78	≤13	PASS
	15	18675	1857.5	28.02	21.74	6.28	≤13	PASS
		18900	1880	27.92	21.65	6.27	≤13	PASS
		19125	1902.5	28.00	21.89	6.11	≤13	PASS
	20	18700	1860	27.98	21.71	6.27	≤13	PASS
		18900	1880	27.93	21.61	6.32	≤13	PASS
		19100	1900	27.44	21.18	6.26	≤13	PASS

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5.5. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

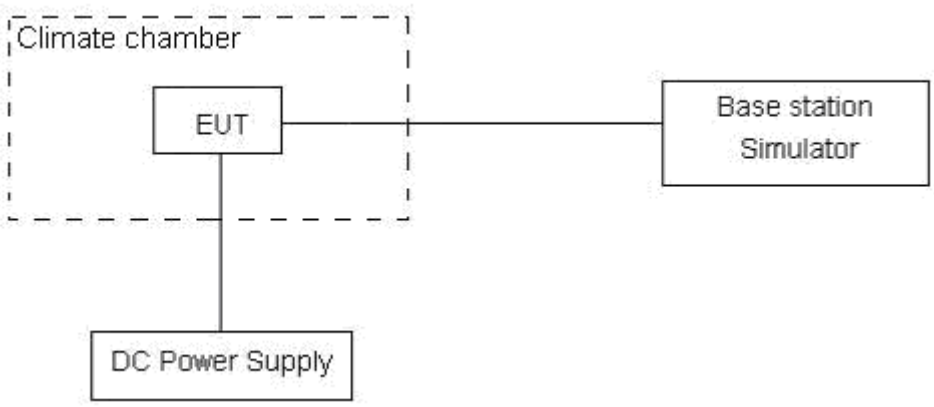
Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.4 V and 4.5 V, with a nominal voltage of 3.8V.

Test setup



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Limits

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75％ confidence level for the normal distribution is with the coverage factor *k* = 3, U= 0.01ppm.

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Test Result

GSM1900						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
Temperature	Voltage	GMSK	8PSK	GMSK	8PSK	
Normal（25℃）	Normal	16.05	4.10	0.00854	0.00218	PASS
Extreme（50℃）		4.51	3.42	0.00240	0.00182	PASS
Extreme（40℃）		16.67	7.87	0.00887	0.00419	PASS
Extreme（30℃）		4.23	8.03	0.00225	0.00427	PASS
Extreme（20℃）		14.17	17.82	0.00753	0.00948	PASS
Extreme（10℃）		12.89	8.34	0.00686	0.00443	PASS
Extreme（0℃）		14.86	3.29	0.00790	0.00175	PASS
Extreme（-10℃）		7.29	15.37	0.00388	0.00818	PASS
Extreme（-20℃）		1.15	12.90	0.00061	0.00686	PASS
Extreme（-30℃）		4.74	8.93	0.00252	0.00475	PASS
25℃	LV	4.42	16.19	0.00235	0.00861	PASS
	HV	11.10	17.32	0.00590	0.00921	PASS

WCDMA Band II						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal（25℃）	Normal	8.22	4.33	0.00437	0.00230	PASS
Extreme（50℃）		14.32	7.52	0.00762	0.00400	PASS
Extreme（40℃）		16.49	9.88	0.00877	0.00526	PASS
Extreme（30℃）		11.79	1.34	0.00627	0.00071	PASS
Extreme（20℃）		15.34	17.05	0.00816	0.00907	PASS
Extreme（10℃）		7.83	10.87	0.00416	0.00578	PASS
Extreme（0℃）		15.39	2.77	0.00819	0.00147	PASS
Extreme（-10℃）		15.17	10.66	0.00807	0.00567	PASS
Extreme（-20℃）		12.48	2.48	0.00664	0.00132	PASS
Extreme（-30℃）		14.49	2.17	0.00771	0.00116	PASS
25℃	LV	14.07	16.78	0.00748	0.00893	PASS
	HV	4.58	1.06	0.00244	0.00056	PASS

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LTE Band 2						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	17.03	14.97	0.00906	0.00796	PASS
Extreme（50℃）		16.82	15.67	0.00895	0.00833	PASS
Extreme（40℃）		2.42	15.33	0.00129	0.00815	PASS
Extreme（30℃）		17.49	4.01	0.00930	0.00213	PASS
Extreme（20℃）		11.76	14.19	0.00626	0.00755	PASS
Extreme（10℃）		12.59	2.10	0.00670	0.00112	PASS
Extreme（0℃）		11.08	13.77	0.00589	0.00733	PASS
Extreme（-10℃）		17.26	5.45	0.00918	0.00290	PASS
Extreme（-20℃）		16.83	3.53	0.00895	0.00188	PASS
Extreme（-30℃）		12.32	6.68	0.00655	0.00355	PASS
25℃	LV	17.56	14.79	0.00934	0.00786	PASS
	HV	1.92	9.87	0.00102	0.00525	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	1.20	14.84	0.00064	0.00789	PASS
Extreme（50℃）		8.79	4.85	0.00468	0.00258	PASS
Extreme（40℃）		13.96	1.17	0.00743	0.00062	PASS
Extreme（30℃）		9.52	2.98	0.00507	0.00158	PASS
Extreme（20℃）		15.24	3.76	0.00811	0.00200	PASS
Extreme（10℃）		17.10	11.67	0.00910	0.00621	PASS
Extreme（0℃）		15.74	4.21	0.00837	0.00224	PASS
Extreme（-10℃）		14.78	12.08	0.00786	0.00643	PASS
Extreme（-20℃）		14.57	4.97	0.00775	0.00264	PASS
Extreme（-30℃）		12.92	12.97	0.00687	0.00690	PASS
25℃	LV	12.30	3.93	0.00654	0.00209	PASS
	HV	9.45	10.70	0.00503	0.00569	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	15.09	8.70	0.00803	0.00463	PASS
Extreme（50℃）		5.95	10.94	0.00316	0.00582	PASS
Extreme（40℃）		1.87	16.93	0.00099	0.00901	PASS

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Extreme（30℃）		5.78	12.24	0.00307	0.00651	PASS
Extreme（20℃）		3.86	8.56	0.00206	0.00455	PASS
Extreme（10℃）		12.70	3.93	0.00676	0.00209	PASS
Extreme（0℃）		8.72	15.83	0.00464	0.00842	PASS
Extreme（-10℃）		2.58	14.39	0.00137	0.00765	PASS
Extreme（-20℃）		2.07	9.17	0.00110	0.00488	PASS
Extreme（-30℃）		13.36	16.41	0.00711	0.00873	PASS
25℃	LV	14.87	16.70	0.00791	0.00888	PASS
	HV	15.57	14.42	0.00828	0.00767	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	11.48	6.71	0.00611	0.00357	PASS
Extreme（50℃）		9.62	6.69	0.00512	0.00356	PASS
Extreme（40℃）		17.25	7.03	0.00917	0.00374	PASS
Extreme（30℃）		4.56	6.45	0.00243	0.00343	PASS
Extreme（20℃）		13.43	14.80	0.00714	0.00787	PASS
Extreme（10℃）		12.66	16.54	0.00673	0.00880	PASS
Extreme（0℃）		1.94	10.28	0.00103	0.00547	PASS
Extreme（-10℃）		8.68	8.52	0.00462	0.00453	PASS
Extreme（-20℃）		10.97	12.32	0.00583	0.00655	PASS
Extreme（-30℃）		7.64	3.32	0.00406	0.00177	PASS
25℃	LV	4.72	7.97	0.00251	0.00424	PASS
	HV	12.76	5.28	0.00679	0.00281	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability（ppm）	Frequency Stability（ppm）	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	14.54	14.40	0.00773	0.00766	PASS
Extreme（50℃）		6.09	1.13	0.00324	0.00060	PASS
Extreme（40℃）		3.85	4.78	0.00205	0.00254	PASS
Extreme（30℃）		3.08	16.37	0.00164	0.00871	PASS
Extreme（20℃）		17.65	16.28	0.00939	0.00866	PASS
Extreme（10℃）		3.48	14.18	0.00185	0.00754	PASS
Extreme（0℃）		13.17	12.87	0.00700	0.00684	PASS
Extreme（-10℃）		12.70	16.88	0.00676	0.00898	PASS
Extreme（-20℃）		11.75	16.59	0.00625	0.00882	PASS
Extreme（-30℃）		2.43	1.35	0.00129	0.00072	PASS
25℃	LV	7.74	6.26	0.00411	0.00333	PASS
	HV	11.05	6.78	0.00588	0.00360	PASS

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Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability （ppm）	Frequency Stability （ppm）	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal（25℃）	Normal	13.15	10.73	0.00699	0.00571	PASS
Extreme（50℃）		9.31	12.72	0.00495	0.00677	PASS
Extreme（40℃）		8.35	5.39	0.00444	0.00287	PASS
Extreme（30℃）		17.33	5.13	0.00922	0.00273	PASS
Extreme（20℃）		5.04	14.95	0.00268	0.00795	PASS
Extreme（10℃）		13.35	10.74	0.00710	0.00571	PASS
Extreme（0℃）		12.21	17.36	0.00649	0.00924	PASS
Extreme（-10℃）		12.41	9.79	0.00660	0.00521	PASS
Extreme（-20℃）		12.82	5.03	0.00682	0.00267	PASS
Extreme（-30℃）		9.39	5.05	0.00499	0.00269	PASS
25℃	LV	6.14	10.97	0.00327	0.00583	PASS
	HV	7.19	4.27	0.00382	0.00227	PASS

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5.6. Spurious Emissions at Antenna Terminals

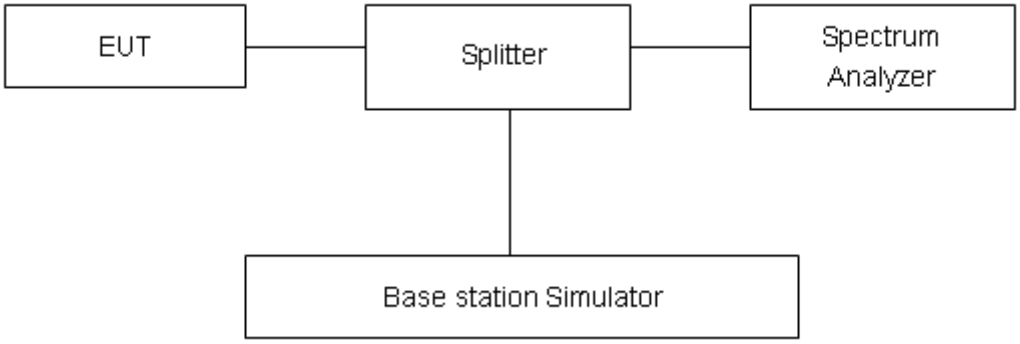
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.
RBW is set to 1 kHz (0.009MHz~0.15 MHz),
RBW is set to 10 kHz (0.15 MHz~30 MHz)
RBW is set to 100 kHz (30MHz~1000 MHz)
RBW is set to 1000 kHz (above 1000MHz)
Sweep is set to ATUO.
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.”

Limit	-13 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75％ confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-20GHz	1.407 dB

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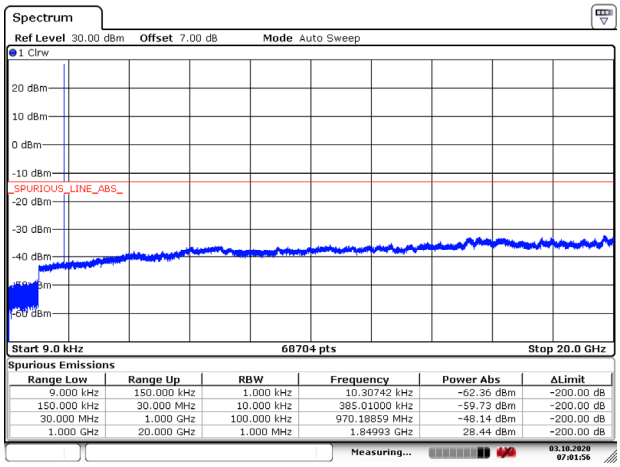
Test Result

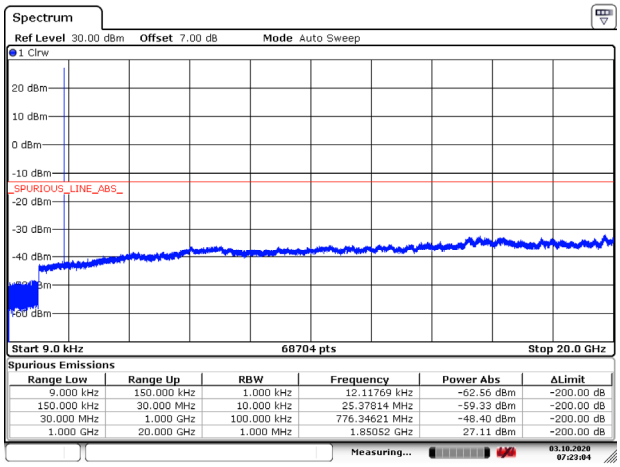
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.

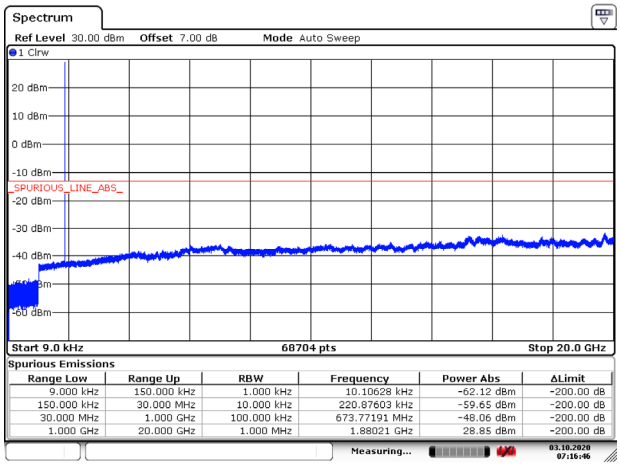
GSM 1900 CH-Low 9kHz ~ 20GHz



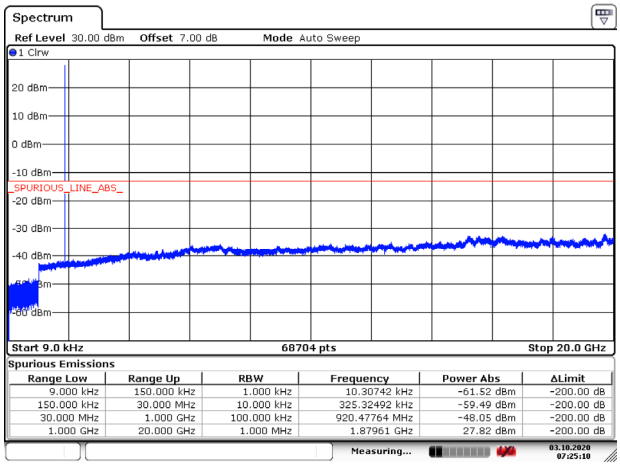
GPRS 1900 CH-Low 9kHz ~ 20GHz



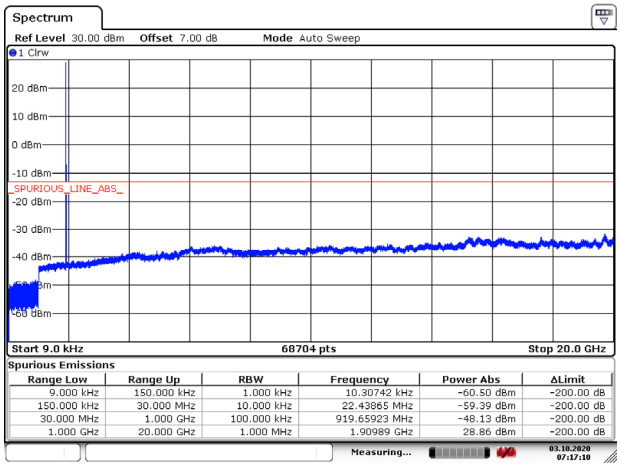
GSM 1900 CH- Middle 9kHz ~ 20GHz



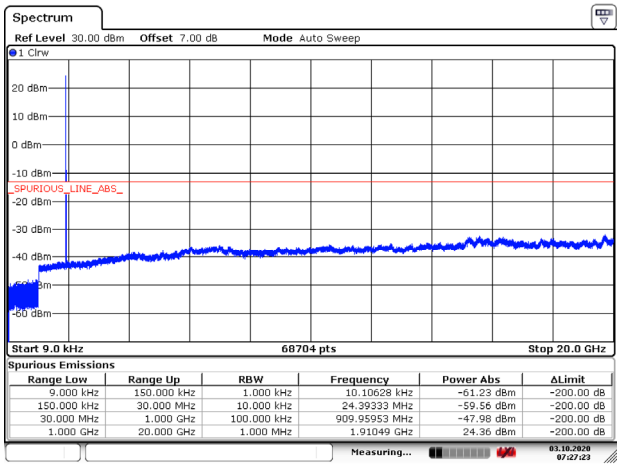
GPRS 1900 CH- Middle 9kHz ~ 20GHz



GSM 1900 CH-High 9kHz ~ 20GHz



GPRS 1900 CH-High 9kHz ~ 20GHz



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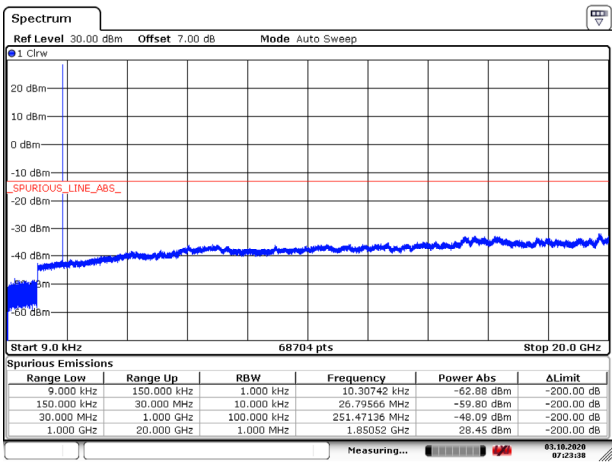
EGPRS 1900 CH-Low 9kHz ~ 20GHz

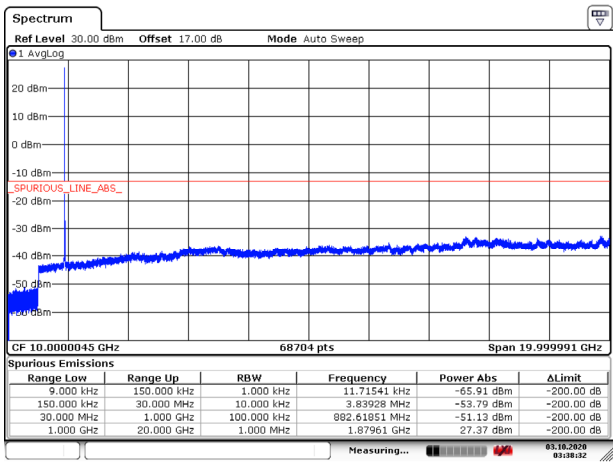


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	10.30742 kHz	-62.88 dBm	-200.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	26.79566 MHz	-59.80 dBm	-200.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	251.47136 MHz	-48.09 dBm	-200.00 dB
1.000 GHz	20.000 GHz	1.000 MHz	1.85052 GHz	28.45 dBm	-200.00 dB

Date: 3.OCT.2020 07:23:38

WCDMA BAND II CH-Low 9kHz ~ 20GHz

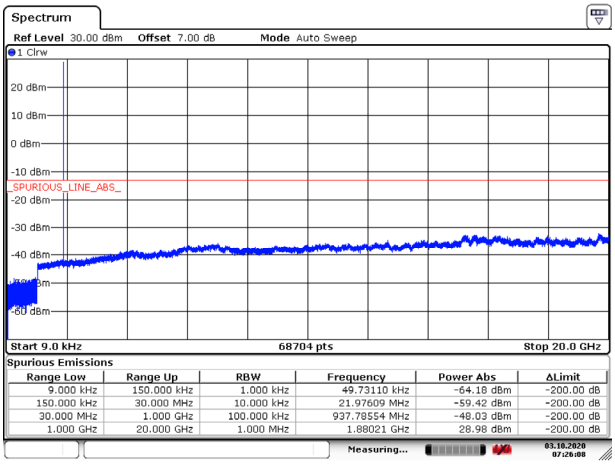


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	11.71541 kHz	-65.91 dBm	-200.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.83928 MHz	-53.79 dBm	-200.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	882.61851 MHz	-51.13 dBm	-200.00 dB
1.000 GHz	20.000 GHz	1.000 MHz	1.87961 GHz	27.37 dBm	-200.00 dB

Date: 3.OCT.2020 03:38:32

EGPRS 1900 CH- Middle 9kHz ~ 20GHz

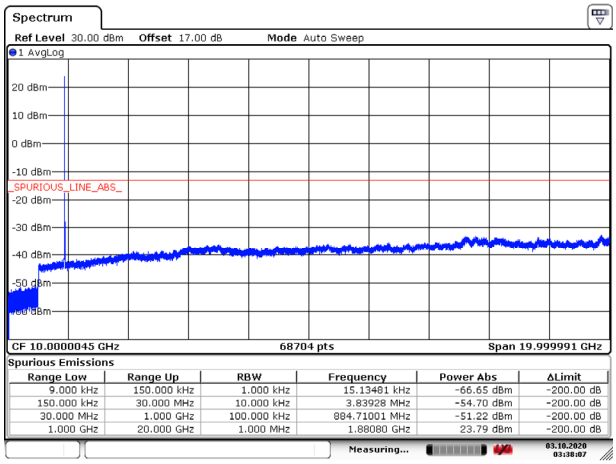


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	49.73110 kHz	-64.18 dBm	-200.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.97609 MHz	-59.42 dBm	-200.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	937.78554 MHz	-48.03 dBm	-200.00 dB
1.000 GHz	20.000 GHz	1.000 MHz	1.88021 GHz	28.98 dBm	-200.00 dB

Date: 3.OCT.2020 07:26:07

WCDMA BAND II CH- Middle 9kHz ~ 20GHz

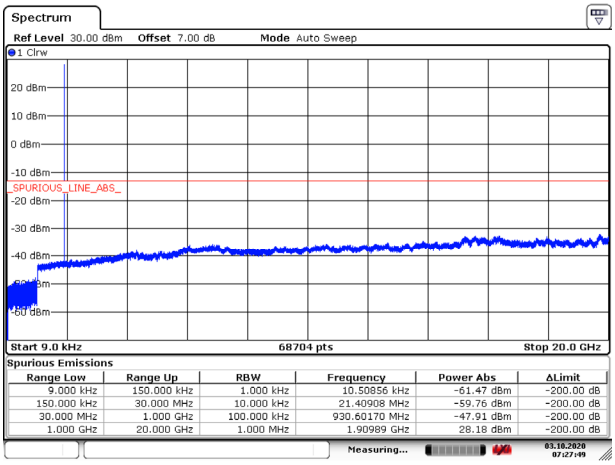


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	15.13481 kHz	-66.65 dBm	-200.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.83928 MHz	-54.70 dBm	-200.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	884.71001 MHz	-51.22 dBm	-200.00 dB
1.000 GHz	20.000 GHz	1.000 MHz	1.88080 GHz	23.79 dBm	-200.00 dB

Date: 3.OCT.2020 03:38:07

EGPRS 1900 CH-High 9kHz ~ 20GHz

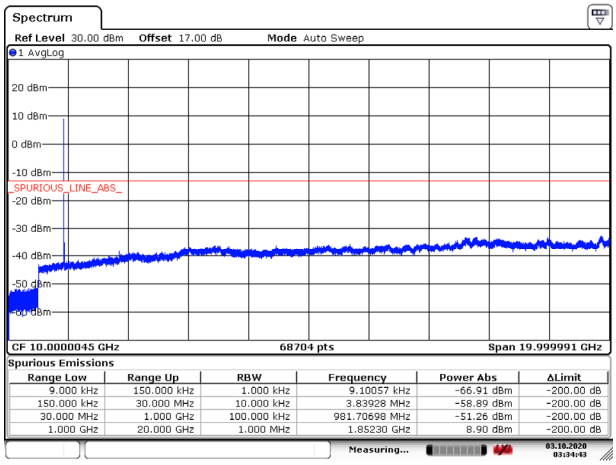


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	10.50856 kHz	-61.47 dBm	-200.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.40908 MHz	-59.76 dBm	-200.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	930.60170 MHz	-47.91 dBm	-200.00 dB
1.000 GHz	20.000 GHz	1.000 MHz	1.90989 GHz	28.18 dBm	-200.00 dB

Date: 3.OCT.2020 07:27:49

WCDMA BAND II CH-High 9kHz ~ 20GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-66.91 dBm	-200.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.83928 MHz	-58.89 dBm	-200.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	981.70698 MHz	-51.26 dBm	-200.00 dB
1.000 GHz	20.000 GHz	1.000 MHz	1.85230 GHz	8.90 dBm	-200.00 dB

Date: 3.OCT.2020 03:34:43

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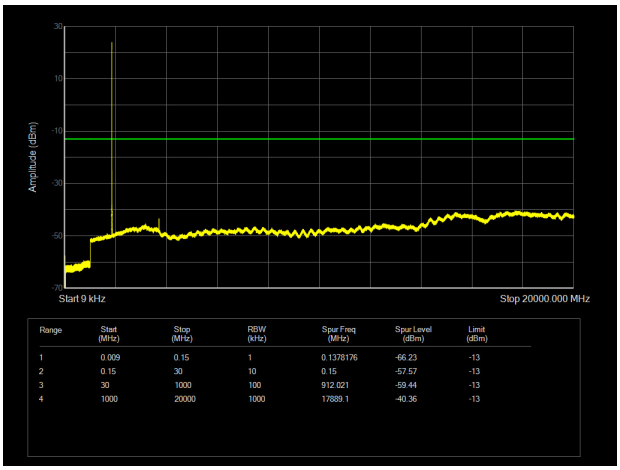
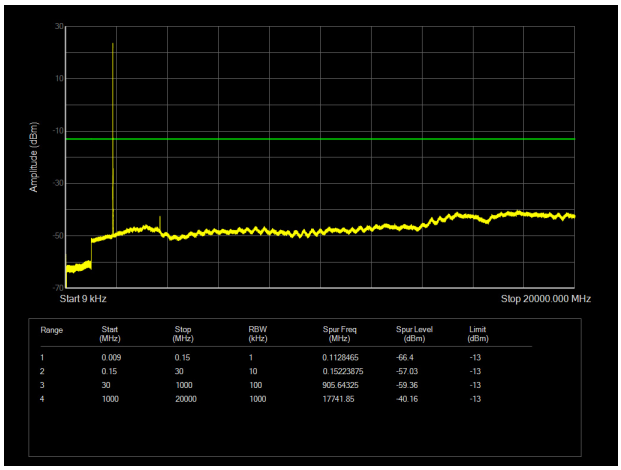
LTE Band 2 1.4MHz CH-Low 9kHz~20GHz



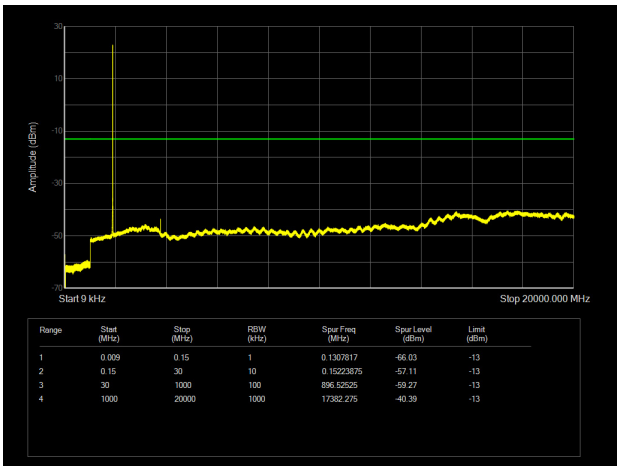
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1378176	-66.23	-13
2	0.15	30	10	0.15	-57.57	-13
3	30	1000	100	912.021	-59.44	-13
4	1000	20000	1000	17889.1	-40.36	-13

LTE Band 2 3MHz CH-Low 9kHz~20GHz



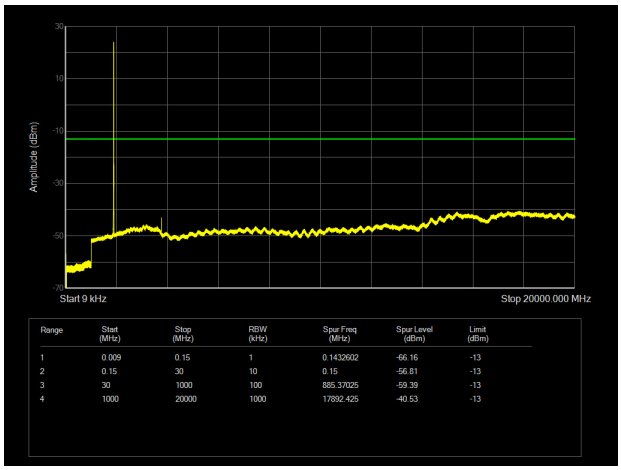
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1128465	-66.4	-13
2	0.15	30	10	0.15223875	-57.03	-13
3	30	1000	100	905.64325	-59.36	-13
4	1000	20000	1000	17741.85	-40.16	-13

LTE Band 2 1.4MHz CH-Middle 9kHz~20GHz



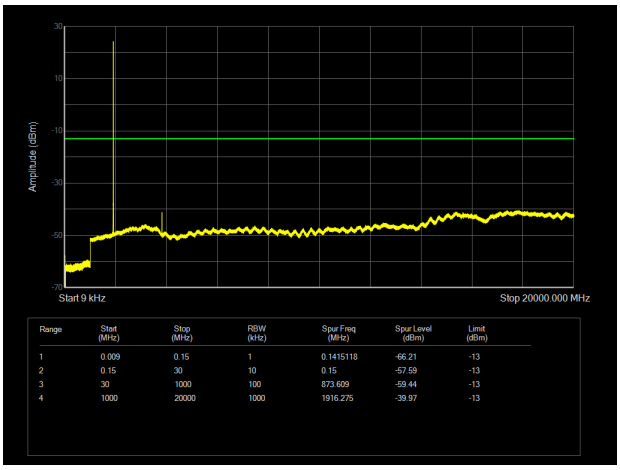
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1307817	-66.03	-13
2	0.15	30	10	0.15223875	-57.11	-13
3	30	1000	100	896.52525	-59.27	-13
4	1000	20000	1000	17382.275	-40.39	-13

LTE Band 2 3MHz CH-Middle 9kHz~20GHz



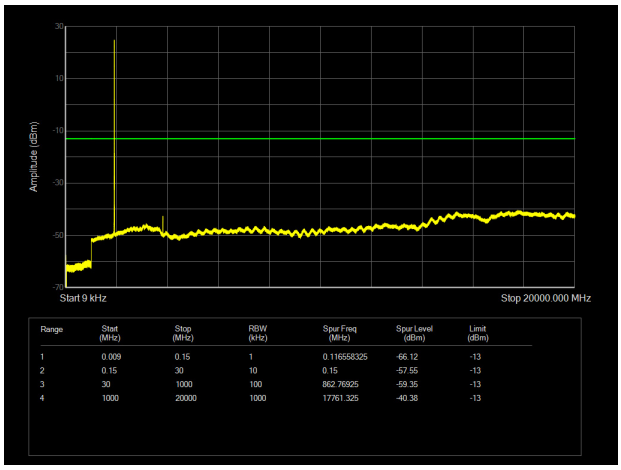
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1432602	-66.16	-13
2	0.15	30	10	0.15	-56.81	-13
3	30	1000	100	885.37025	-59.39	-13
4	1000	20000	1000	17892.425	-40.53	-13

LTE Band 2 1.4MHz CH-High 9kHz~20GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1415118	-66.21	-13
2	0.15	30	10	0.15	-57.59	-13
3	30	1000	100	873.609	-59.44	-13
4	1000	20000	1000	1916.275	-39.97	-13

LTE Band 2 3MHz CH-High 9kHz~20GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.116558325	-66.12	-13
2	0.15	30	10	0.15	-57.55	-13
3	30	1000	100	862.76925	-59.35	-13
4	1000	20000	1000	17761.325	-40.38	-13

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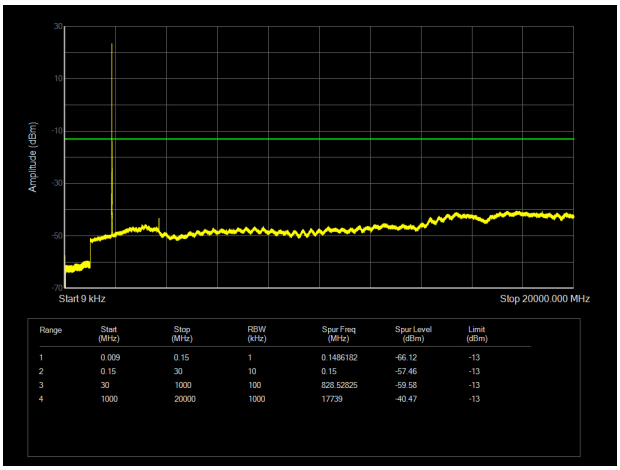
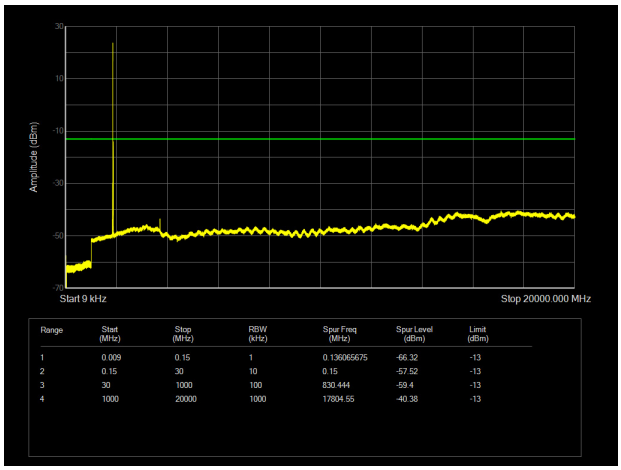
LTE Band 2 5MHz CH-Low 9kHz~20GHz



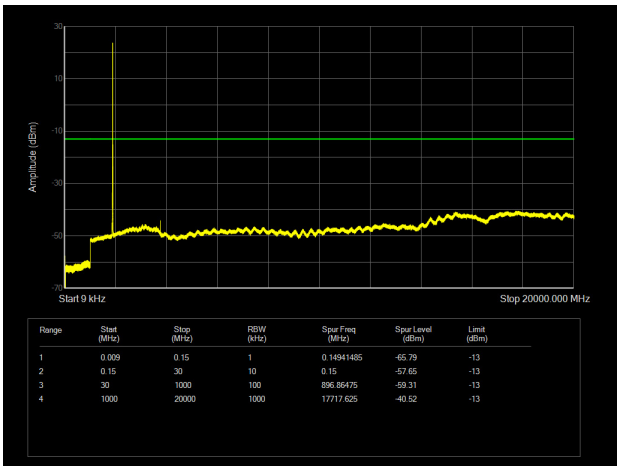
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1486182	-66.12	-13
2	0.15	30	10	0.15	-57.46	-13
3	30	1000	100	828.52825	-59.58	-13
4	1000	20000	1000	17739	-40.47	-13

LTE Band 2 10MHz CH-Low 9kHz~20GHz



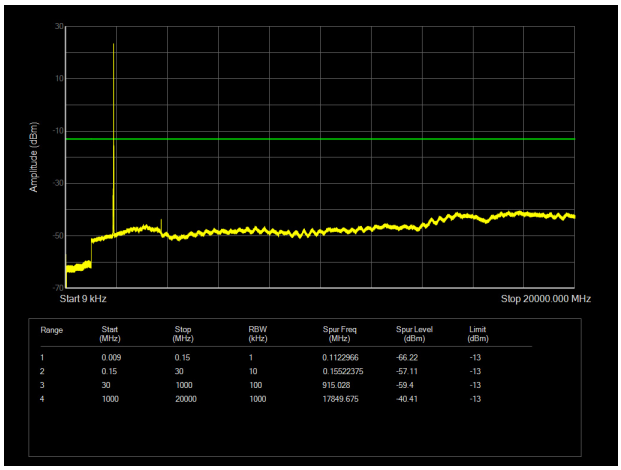
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.136065675	-66.32	-13
2	0.15	30	10	0.15	-57.52	-13
3	30	1000	100	830.444	-59.4	-13
4	1000	20000	1000	17804.55	-40.38	-13

LTE Band 2 5MHz CH-Middle 9kHz~20GHz



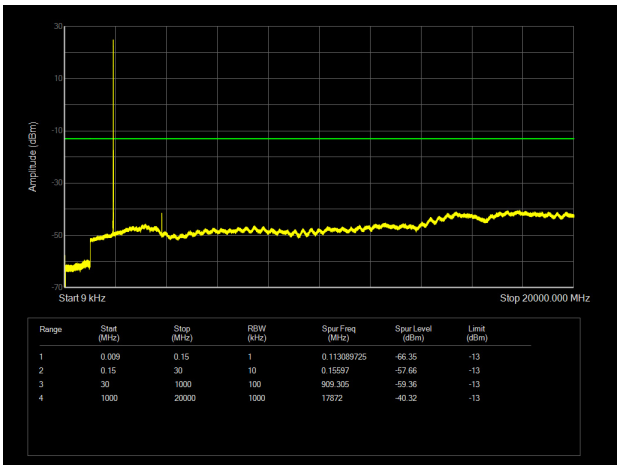
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.14941485	-65.79	-13
2	0.15	30	10	0.15	-57.65	-13
3	30	1000	100	896.86475	-59.31	-13
4	1000	20000	1000	17717.625	-40.52	-13

LTE Band 2 10MHz CH-Middle 9kHz~20GHz



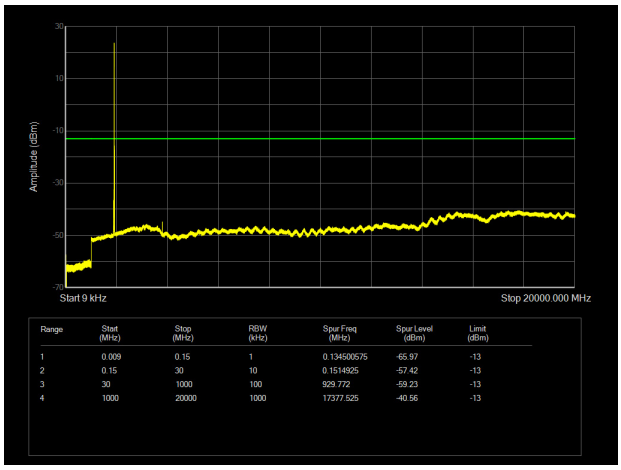
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1122966	-66.22	-13
2	0.15	30	10	0.15522375	-57.11	-13
3	30	1000	100	915.028	-59.4	-13
4	1000	20000	1000	17849.675	-40.41	-13

LTE Band 2 5MHz CH-High 9kHz~20GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.113089725	-66.35	-13
2	0.15	30	10	0.15597	-57.66	-13
3	30	1000	100	909.305	-59.36	-13
4	1000	20000	1000	17872	-40.32	-13

LTE Band 2 10MHz CH-High 9kHz~20GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.134500575	-65.97	-13
2	0.15	30	10	0.1514925	-57.42	-13
3	30	1000	100	929.772	-59.23	-13
4	1000	20000	1000	17377.525	-40.56	-13

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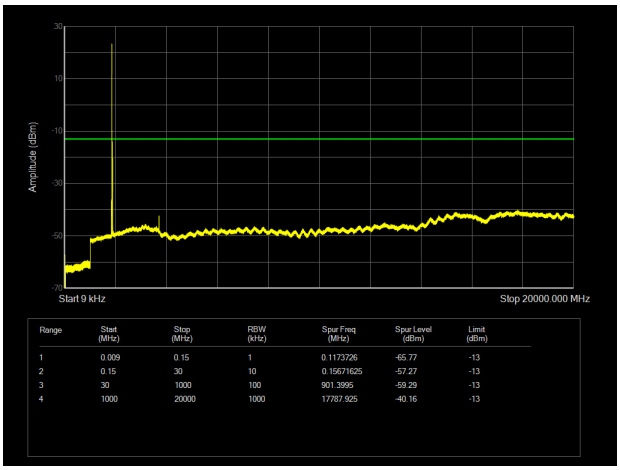
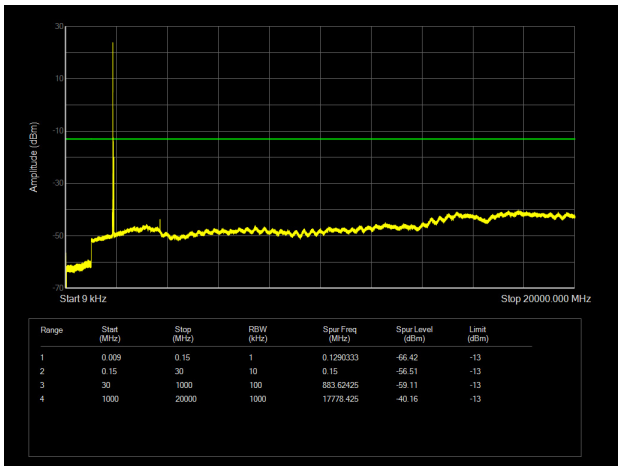
LTE Band 2 15MHz CH-Low 9kHz~20GHz



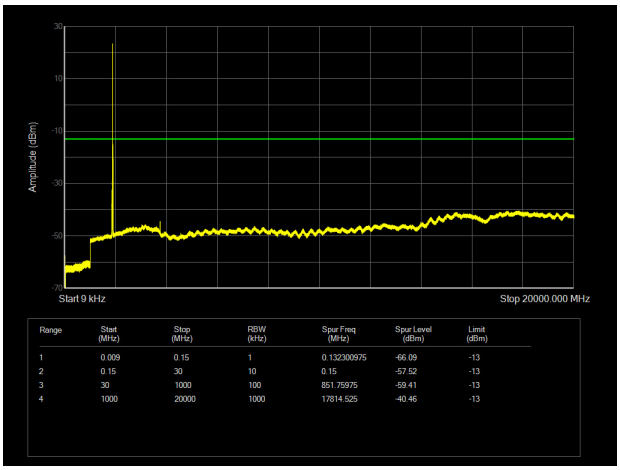
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1173726	-65.77	-13
2	0.15	30	10	0.15671625	-57.27	-13
3	30	1000	100	901.3995	-59.29	-13
4	1000	20000	1000	17787.925	-40.16	-13

LTE Band 2 20MHz CH-Low 9kHz~20GHz



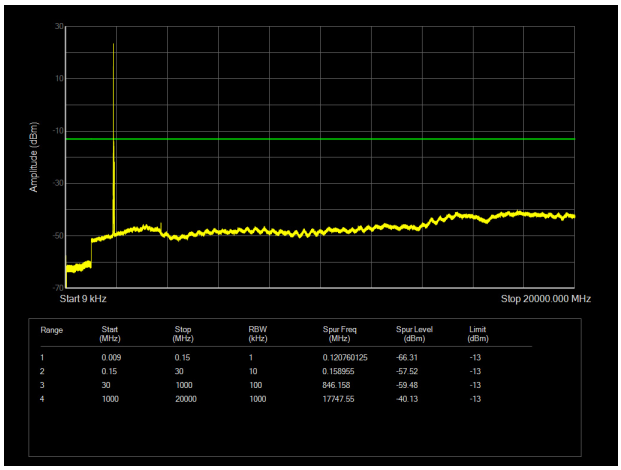
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1290333	-66.42	-13
2	0.15	30	10	0.15	-56.51	-13
3	30	1000	100	883.62425	-59.11	-13
4	1000	20000	1000	17778.425	-40.16	-13

LTE Band 2 15MHz CH-Middle 9kHz~20GHz



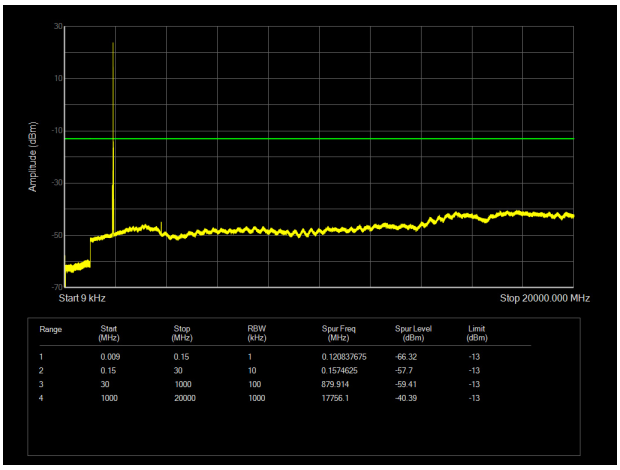
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.132300975	-66.09	-13
2	0.15	30	10	0.15	-57.52	-13
3	30	1000	100	851.75975	-59.41	-13
4	1000	20000	1000	17814.525	-40.46	-13

LTE Band 2 20MHz CH-Middle 9kHz~20GHz



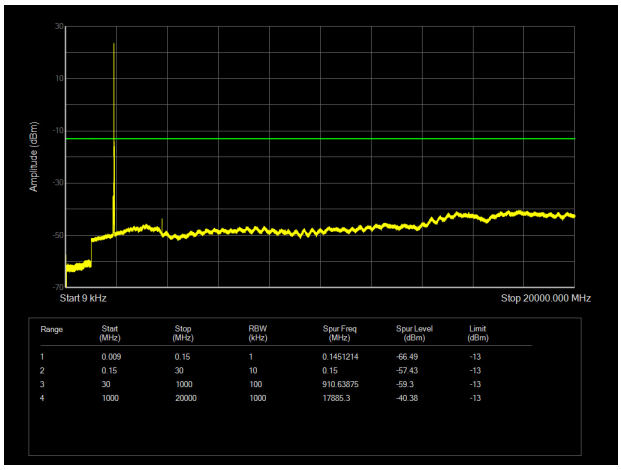
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.120760125	-66.31	-13
2	0.15	30	10	0.158955	-57.52	-13
3	30	1000	100	846.158	-59.48	-13
4	1000	20000	1000	17747.55	-40.13	-13

LTE Band 2 15MHz CH-High 9kHz~20GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.120837675	-66.32	-13
2	0.15	30	10	0.1574625	-57.7	-13
3	30	1000	100	879.914	-59.41	-13
4	1000	20000	1000	17756.1	-40.39	-13

LTE Band 2 20MHz CH-High 9kHz~20GHz



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.1451214	-66.49	-13
2	0.15	30	10	0.15	-57.43	-13
3	30	1000	100	910.63875	-59.3	-13
4	1000	20000	1000	17885.3	-40.38	-13

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5.7. Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=200Hz,VBW=600Hz for 9kHz-150kHz , RBW=10kHz, VBW=30kHz 150kHz-30MHz , RBW=100kHz,VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, And the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:
Power(EIRP)=PMea- PAg - Pcl + Ga
The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi)

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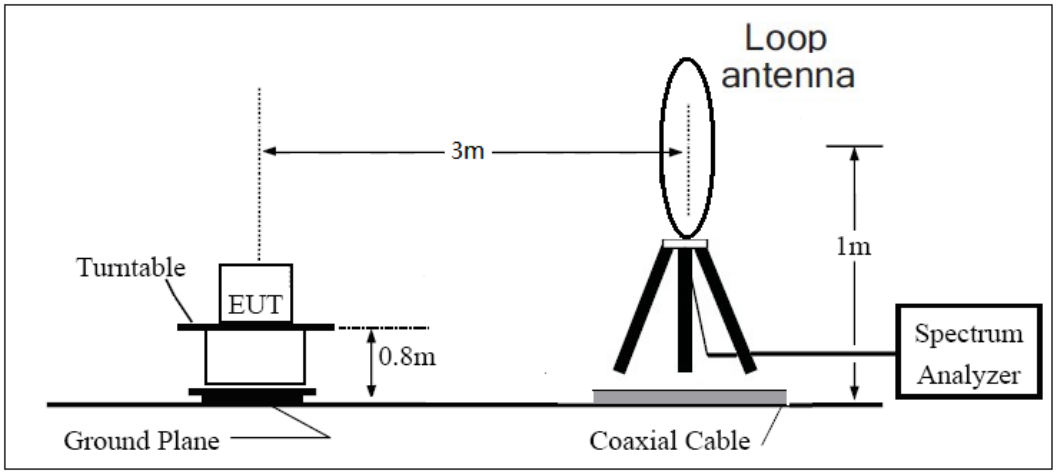
and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

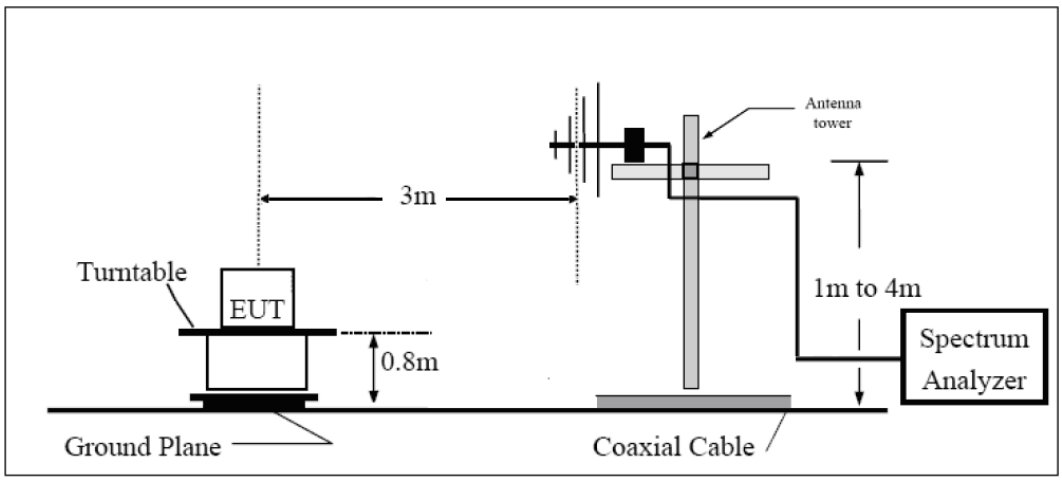
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

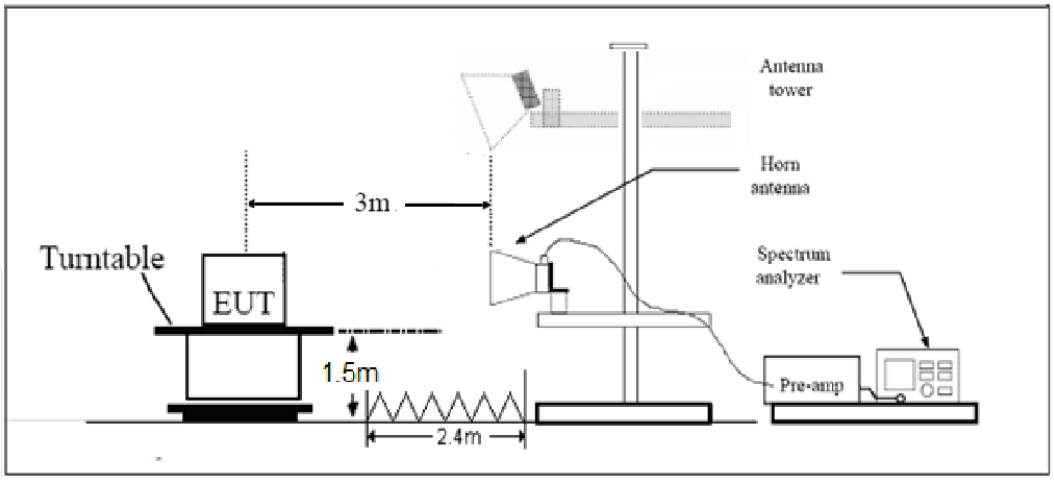
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



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Note: Area side: 2.4mX3.6m

Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.”

Limit	-13 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95％ confidence level for the normal distribution is with the coverage factor *k* = 1.96, *U*= 3.55 dB.

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Test Result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

EC200T-AU

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.0	-52.92	5.10	11.05	Horizontal	-46.97	-13.00	33.97	225
3	5640.0	-51.54	5.42	12.65	Horizontal	-44.31	-13.00	31.31	315
4	7520.0	-55.12	6.70	13.85	Horizontal	-47.97	-13.00	34.97	270
5	9400.0	-53.89	7.01	14.75	Horizontal	-46.15	-13.00	33.15	180
6	11280.0	-52.01	7.48	15.95	Horizontal	-43.54	-13.00	30.54	0
7	13160.0	-51.08	7.51	16.55	Horizontal	-42.04	-13.00	29.04	45
8	15040.0	-49.17	8.24	15.35	Horizontal	-42.06	-13.00	29.06	315
9	16920.0	-45.31	8.41	14.95	Horizontal	-38.77	-13.00	25.77	45
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.0	-50.48	5.10	11.05	Horizontal	-44.53	-13.00	31.53	270
3	5640.0	-58.01	5.42	12.65	Horizontal	-50.78	-13.00	37.78	0
4	7520.0	-56.68	6.70	13.85	Horizontal	-49.53	-13.00	36.53	45
5	9400.0	-54.98	7.01	14.75	Horizontal	-47.24	-13.00	34.24	225
6	11280.0	-49.85	7.48	15.95	Horizontal	-41.38	-13.00	28.38	180
7	13160.0	-50.93	7.51	16.55	Horizontal	-41.89	-13.00	28.89	225
8	15040.0	-49.53	8.24	15.35	Horizontal	-42.42	-13.00	29.42	45
9	16920.0	-46.45	8.41	14.95	Horizontal	-39.91	-13.00	26.91	315
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

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LTE Band 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.0	-48.28	5.10	11.05	Horizontal	-42.33	-13.00	29.33	45
3	5638.9	-57.60	5.42	12.65	Horizontal	-50.37	-13.00	37.37	270
4	7520.0	-55.97	6.70	13.85	Horizontal	-48.82	-13.00	35.82	45
5	9400.0	-55.37	7.01	14.75	Horizontal	-47.63	-13.00	34.63	315
6	11280.0	-51.65	7.48	15.95	Horizontal	-43.18	-13.00	30.18	90
7	13160.0	-51.84	7.51	16.55	Horizontal	-42.80	-13.00	29.80	315
8	15040.0	-49.90	8.24	15.35	Horizontal	-42.79	-13.00	29.79	315
9	16920.0	-46.61	8.41	14.95	Horizontal	-40.07	-13.00	27.07	45
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.6	-51.47	5.10	11.05	Horizontal	-45.52	-13.00	32.52	45
3	5633.6	-58.02	5.42	12.65	Horizontal	-50.79	-13.00	37.79	270
4	7520.0	-55.88	6.70	13.85	Horizontal	-48.73	-13.00	35.73	270
5	9400.0	-54.69	7.01	14.75	Horizontal	-46.95	-13.00	33.95	45
6	11280.0	-52.38	7.48	15.95	Horizontal	-43.91	-13.00	30.91	90
7	13160.0	-51.86	7.51	16.55	Horizontal	-42.82	-13.00	29.82	90
8	15040.0	-49.94	8.24	15.35	Horizontal	-42.83	-13.00	29.83	45
9	16920.0	-47.16	8.41	14.95	Horizontal	-40.62	-13.00	27.62	315
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

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LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.1	-54.82	5.10	11.05	Horizontal	-48.87	-13.00	35.87	45
3	5613.4	-57.16	5.42	12.65	Horizontal	-49.93	-13.00	36.93	270
4	7484.6	-55.99	6.70	13.85	Horizontal	-48.84	-13.00	35.84	270
5	9400.0	-54.18	7.01	14.75	Horizontal	-46.44	-13.00	33.44	45
6	11280.0	-53.35	7.48	15.95	Horizontal	-44.88	-13.00	31.88	180
7	13160.0	-52.48	7.51	16.55	Horizontal	-43.44	-13.00	30.44	0
8	15040.0	-50.14	8.24	15.35	Horizontal	-43.03	-13.00	30.03	45
9	16920.0	-46.53	8.41	14.95	Horizontal	-39.99	-13.00	26.99	315
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

EC200T-AU MINIPCIE

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.0	-45.55	5.10	11.05	Horizontal	-39.60	-13.00	26.60	225
3	5640.0	-50.32	5.42	12.65	Horizontal	-43.09	-13.00	30.09	315
4	7520.0	-54.32	6.70	13.85	Horizontal	-47.17	-13.00	34.17	270
5	9400.0	-53.86	7.01	14.75	Horizontal	-46.12	-13.00	33.12	180
6	11280.0	-51.94	7.48	15.95	Horizontal	-43.47	-13.00	30.47	0
7	13160.0	-50.55	7.51	16.55	Horizontal	-41.51	-13.00	28.51	45
8	15040.0	-48.01	8.24	15.35	Horizontal	-40.90	-13.00	27.90	315
9	16920.0	-45.17	8.41	14.95	Horizontal	-38.63	-13.00	25.63	45
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

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WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.0	-51.96	5.10	11.05	Horizontal	-46.01	-13.00	33.01	270
3	5640.0	-57.50	5.42	12.65	Horizontal	-50.27	-13.00	37.27	0
4	7520.0	-54.96	6.70	13.85	Horizontal	-47.81	-13.00	34.81	45
5	9400.0	-54.40	7.01	14.75	Horizontal	-46.66	-13.00	33.66	225
6	11280.0	-53.04	7.48	15.95	Horizontal	-44.57	-13.00	31.57	180
7	13160.0	-51.20	7.51	16.55	Horizontal	-42.16	-13.00	29.16	225
8	15040.0	-49.78	8.24	15.35	Horizontal	-42.67	-13.00	29.67	45
9	16920.0	-46.71	8.41	14.95	Horizontal	-40.17	-13.00	27.17	315
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

LTE Band 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.0	-55.93	5.10	11.05	Horizontal	-49.98	-13.00	36.98	45
3	5638.9	-58.09	5.42	12.65	Horizontal	-50.86	-13.00	37.86	270
4	7520.0	-56.98	6.70	13.85	Horizontal	-49.83	-13.00	36.83	90
5	9400.0	-55.25	7.01	14.75	Horizontal	-47.51	-13.00	34.51	315
6	11280.0	-53.42	7.48	15.95	Horizontal	-44.95	-13.00	31.95	45
7	13160.0	-52.18	7.51	16.55	Horizontal	-43.14	-13.00	30.14	315
8	15040.0	-50.14	8.24	15.35	Horizontal	-43.03	-13.00	30.03	90
9	16920.0	-46.78	8.41	14.95	Horizontal	-40.24	-13.00	27.24	45
10	18800.0	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Horizontal position.									

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LTE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.6	-48.72	5.10	11.05	Horizontal	-42.77	-13.00	29.77	90
3	5633.6	-56.97	5.42	12.65	Horizontal	-49.74	-13.00	36.74	270
4	7520.0	-56.55	6.70	13.85	Horizontal	-49.40	-13.00	36.40	270
5	9400.0	-54.63	7.01	14.75	Horizontal	-46.89	-13.00	33.89	45
6	11280.0	-53.23	7.48	15.95	Horizontal	-44.76	-13.00	31.76	90
7	13160.0	-50.46	7.51	16.55	Horizontal	-41.42	-13.00	28.42	90
8	15040.0	-49.68	8.24	15.35	Horizontal	-42.57	-13.00	29.57	45
9	16920.0	-46.37	8.41	14.95	Horizontal	-39.83	-13.00	26.83	315
10	18800.0	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.1	-54.49	5.10	11.05	Horizontal	-48.54	-13.00	35.54	45
3	5613.4	-57.29	5.42	12.65	Horizontal	-50.06	-13.00	37.06	270
4	7484.6	-56.91	6.70	13.85	Horizontal	-49.76	-13.00	36.76	90
5	9400.0	-51.48	7.01	14.75	Horizontal	-43.74	-13.00	30.74	45
6	11280.0	-52.74	7.48	15.95	Horizontal	-44.27	-13.00	31.27	0
7	13160.0	-51.87	7.51	16.55	Horizontal	-42.83	-13.00	29.83	315
8	15040.0	-49.72	8.24	15.35	Horizontal	-42.61	-13.00	29.61	45
9	16920.0	-46.52	8.41	14.95	Horizontal	-39.98	-13.00	26.98	180
10	18800.0	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

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6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMU200	118133	2020-05-17	2021-05-16
Base Station Simulator	R&S	CMW500	113824	2020-05-18	2021-05-17
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	/	/
Spectrum Analyzer	Key sight	N9010A	MY50210259	2020-05-18	2021-05-17
Universal Radio Communication Tester	Key sight	E5515C	MY48367192	2020-05-27	2021-05-26
Signal Analyzer	R&S	FSV30	100815	2019-12-15	2020-12-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2021-06-19
Signal generator	R&S	SMB 100A	102594	2020-05-18	2021-05-17
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
Preampflier	R&S	SCU18	102327	2020-05-18	2021-05-17
MOB COMMS DC SUPPLY	Keysight	66319D	MY43004105	2020-05-18	2021-05-17
RF Cable	Agilent	SMA 15cm	0001	2020-06-12	2020-12-11
Software	R&S	EMC32	9.26.0	/	/

********END OF REPORT ********

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

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ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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