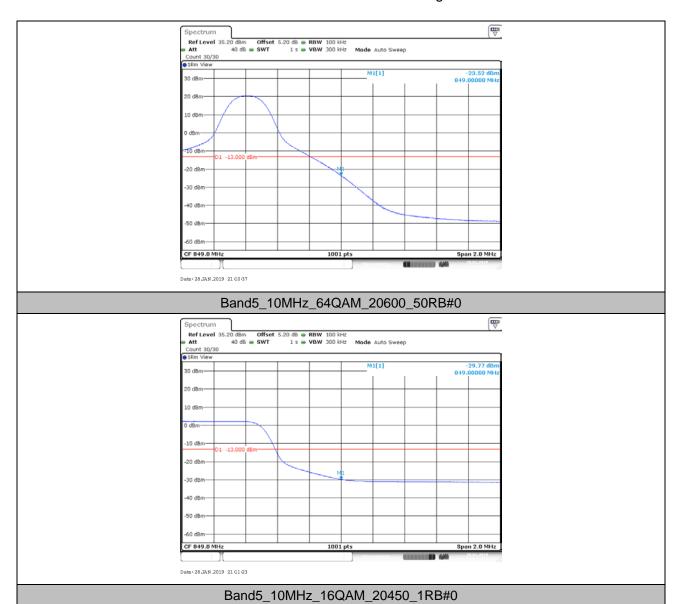
Report No.: HR/2019/1001201

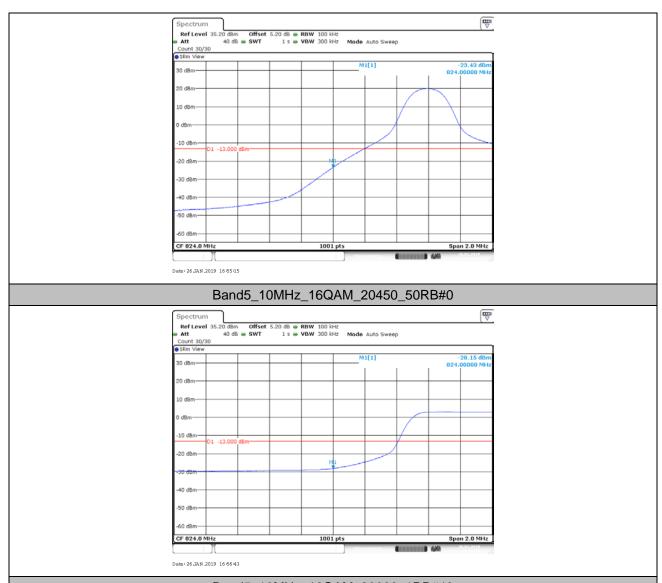
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Band5_10MHz_16QAM_20600_1RB#49



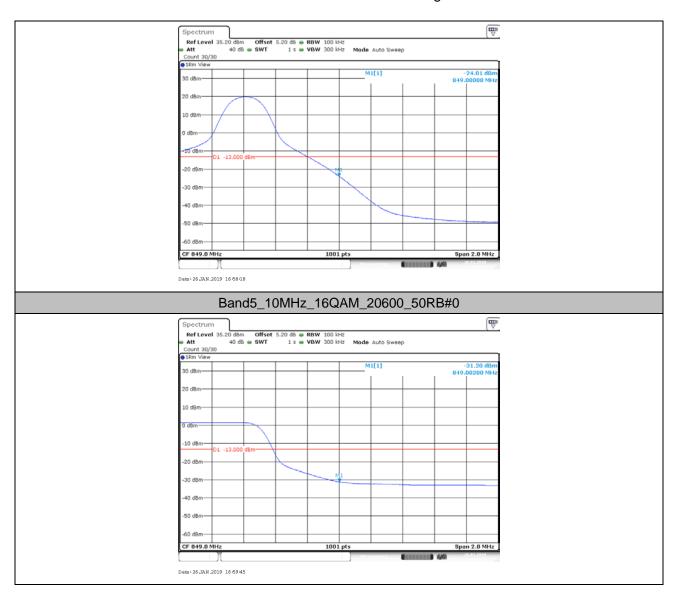
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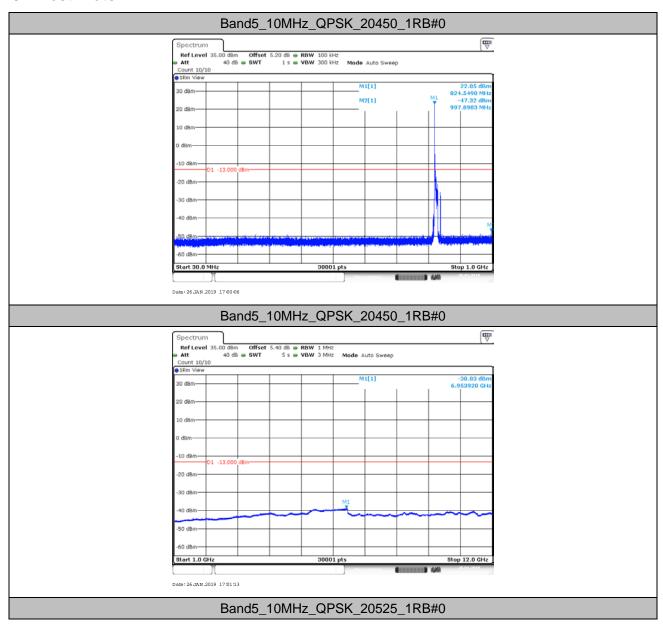
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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

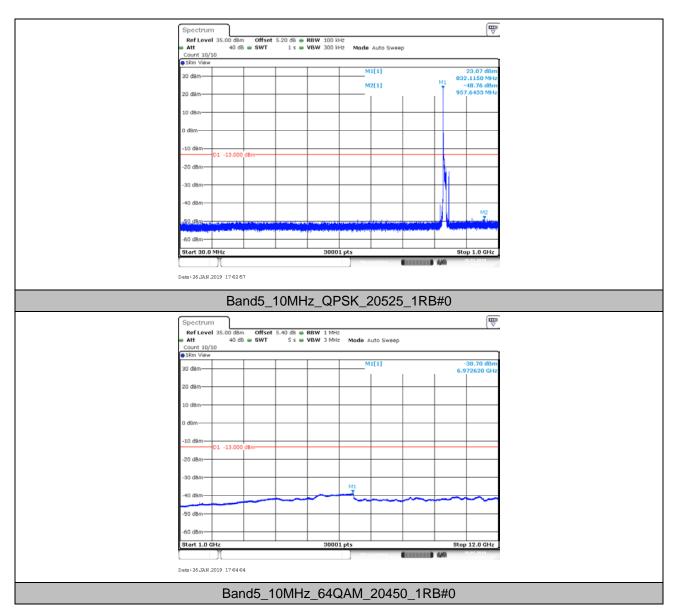
6.1. Test Plots





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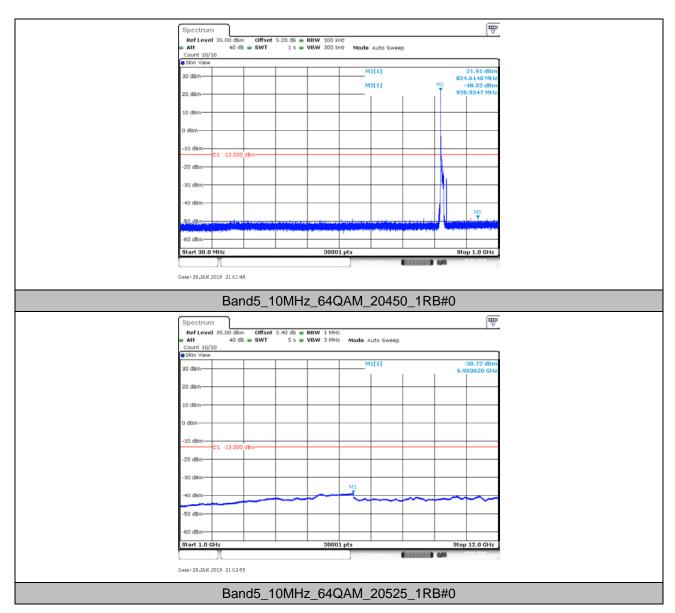
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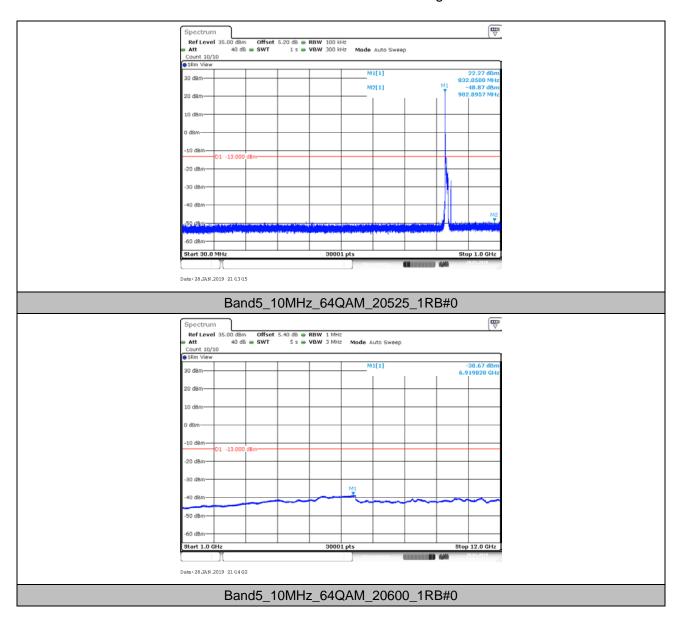
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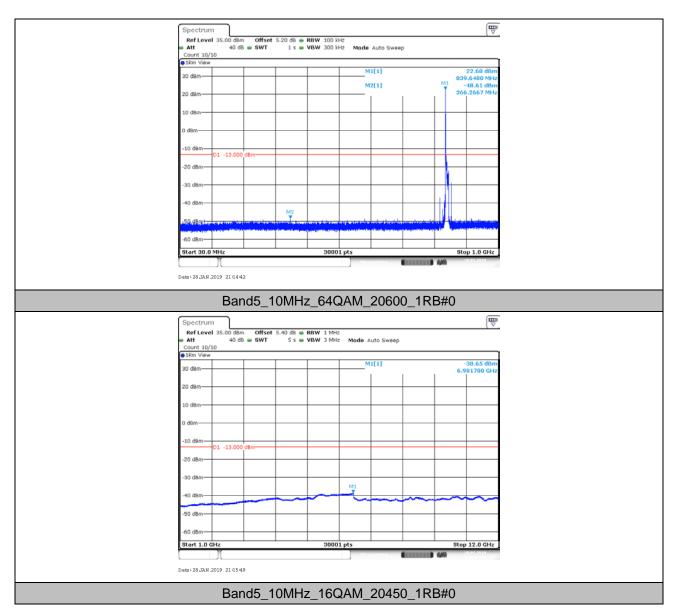
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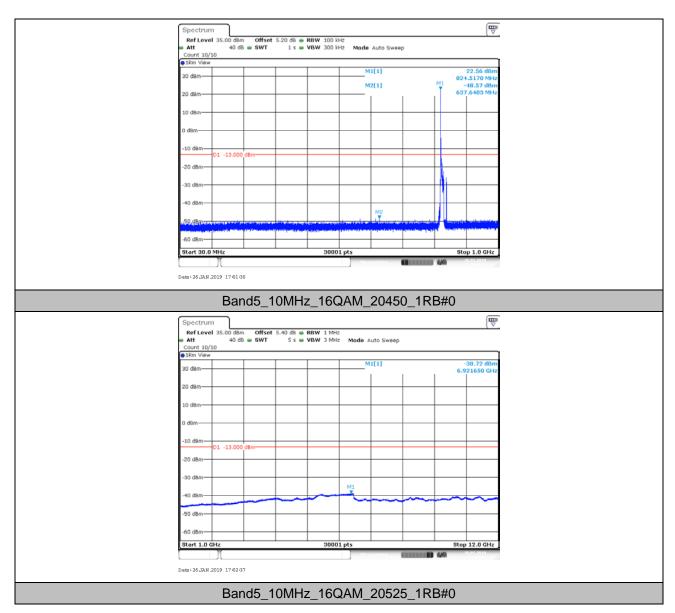
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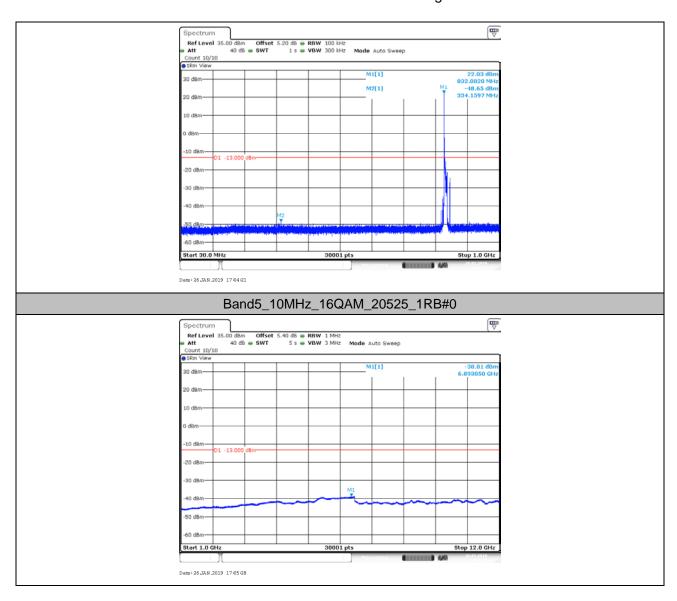
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7. Field Strength of Spurious Radiation

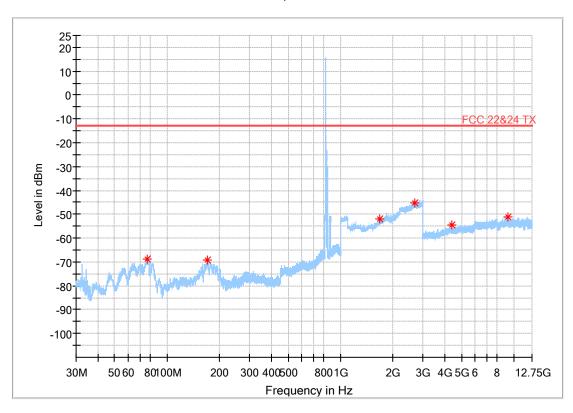
7.1. Main Antenna

7.1.1. Test BAND = LTE BAND 5

7.1.1.1. Test Mode =LTE/TM1

7.1.1.1.1 LCH-Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.806667	-68.87	-13.00	55.87			200.0	V	309.0	-107.9
172.193333	-69.28	-13.00	56.28			200.0	V	123.0	-108.9
1687.000000	-51.76	-13.00	38.76			200.0	V	0.0	-87.0
2676.000000	-45.19	-13.00	32.19			200.0	V	359.0	-78.9
4395.712500	-54.63	-13.00	41.63			200.0	V	0.0	-102.9
9268.275000	-51.22	-13.00	38.22			200.0	V	0.0	-96.9



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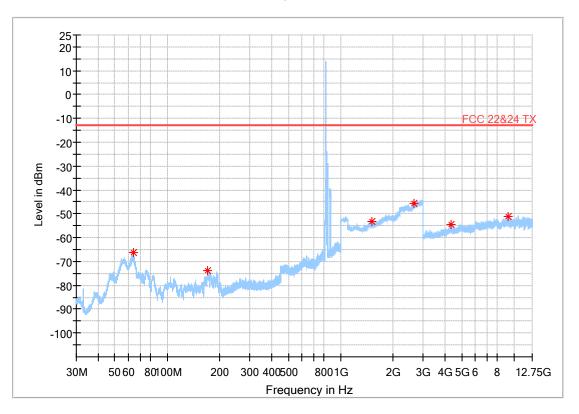
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7.1.1.1.2. LCH-Horizontal

Full Spectrum



Critical_Freqs

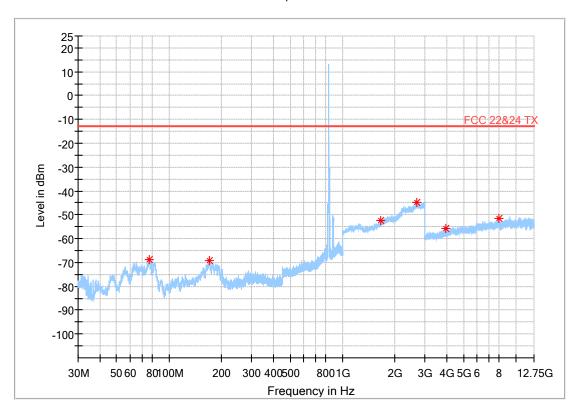
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.740000	-66.35	-13.00	53.35			200.0	Η	287.0	-96.4
172.193333	-73.75	-13.00	60.75			200.0	Η	146.0	-107.2
1519.000000	-53.35	-13.00	40.35			200.0	Η	0.0	-88.1
2646.500000	-45.58	-13.00	32.58			200.0	Н	141.0	-79.8
4338.187500	-54.29	-13.00	41.29			200.0	Η	0.0	-102.6
9277.537500	-51.19	-13.00	38.19			200.0	Η	2.0	-96.9



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7.1.1.1.3. MCH-Vertical

Full Spectrum



Critical_Freqs

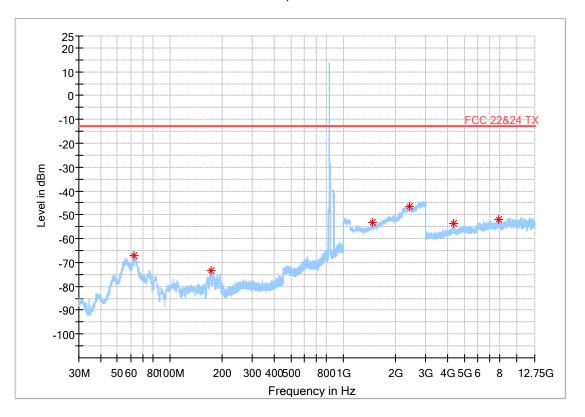
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.086667	-68.96	-13.00	55.96			200.0	>	312.0	-108.1
171.586667	-69.28	-13.00	56.28			200.0	V	101.0	-108.9
1663.500000	-52.27	-13.00	39.27			200.0	V	0.0	-87.3
2702.000000	-44.78	-13.00	31.78			200.0	V	140.0	-78.9
3968.175000	-55.56	-13.00	42.56			200.0	V	210.0	-103.6
8039.775000	-51.61	-13.00	38.61			200.0	V	210.0	-98.5



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7.1.1.1.4. MCH-Horizontal

Full Spectrum



Critical_Freqs

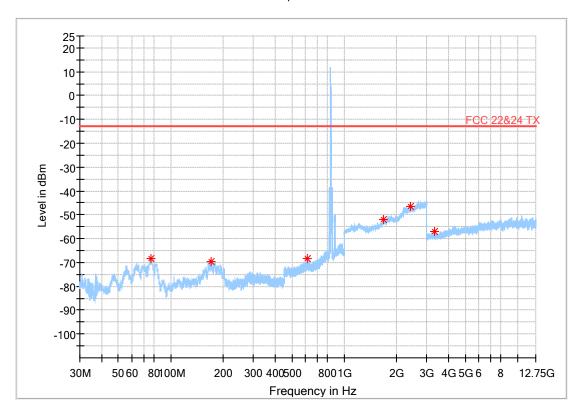
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.620000	-66.97	-13.00	53.97			200.0	Η	0.0	-95.3
173.266667	-73.45	-13.00	60.45			200.0	Н	148.0	-107.1
1483.000000	-53.37	-13.00	40.37			200.0	Η	0.0	-88.0
2410.000000	-46.70	-13.00	33.70			200.0	Η	213.0	-80.9
4335.262500	-53.65	-13.00	40.65			200.0	Η	2.0	-102.6
7918.387500	-51.79	-13.00	38.79			200.0	Н	2.0	-97.9



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7.1.1.1.5. HCH-Vertical

Full Spectrum



Critical_Freqs

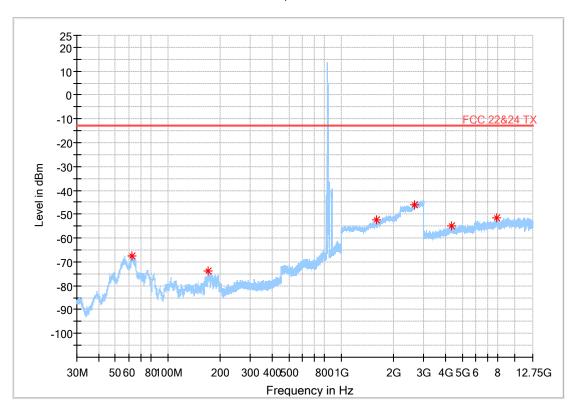
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.993333	-68.21	-13.00	55.21			200.0	V	310.0	-108.0
172.053333	-69.62	-13.00	56.62			200.0	V	144.0	-108.9
616.970833	-68.52	-13.00	55.52			200.0	V	0.0	-98.9
1690.500000	-51.98	-13.00	38.98			200.0	V	354.0	-86.9
2427.000000	-46.29	-13.00	33.29			200.0	V	0.0	-81.1
3306.637500	-57.05	-13.00	44.05			200.0	V	1.0	-105.4



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7.1.1.1.6. HCH-Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.620000	-67.32	-13.00	54.32			200.0	Η	7.0	-95.3
172.006667	-73.76	-13.00	60.76			200.0	Η	146.0	-107.2
1595.500000	-52.37	-13.00	39.37			200.0	Н	1.0	-88.0
2660.500000	-45.88	-13.00	32.88			200.0	Н	319.0	-79.4
4346.475000	-54.71	-13.00	41.71			200.0	Н	210.0	-102.7
7943.250000	-51.72	-13.00	38.72			200.0	Н	0.0	-98.0



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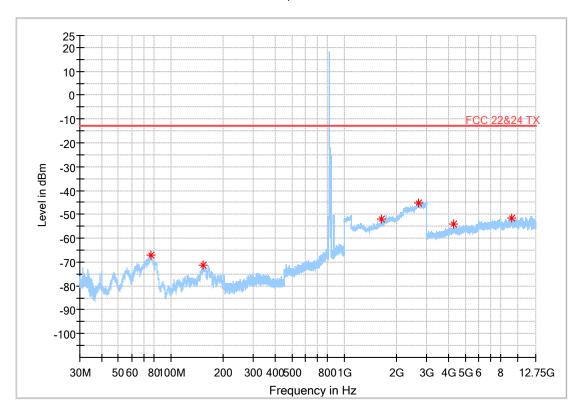
7.2. Secondary Antenna

7.2.1. Test BAND = LTE BAND 5

7.2.1.1. Test Mode =LTE/TM1

7.2.1.1.1. LCH-Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.713333	-66.98	-13.00	53.98			200.0	V	311.0	-107.8
154.366667	-71.38	-13.00	58.38			200.0	V	79.0	-108.9
1649.000000	-51.78	-13.00	38.78			200.0	V	214.0	-87.3
2671.500000	-45.21	-13.00	32.21			200.0	V	359.0	-78.9
4273.837500	-54.17	-13.00	41.17			200.0	V	0.0	-102.8
9272.175000	-51.60	-13.00	38.60			200.0	V	1.0	-96.9



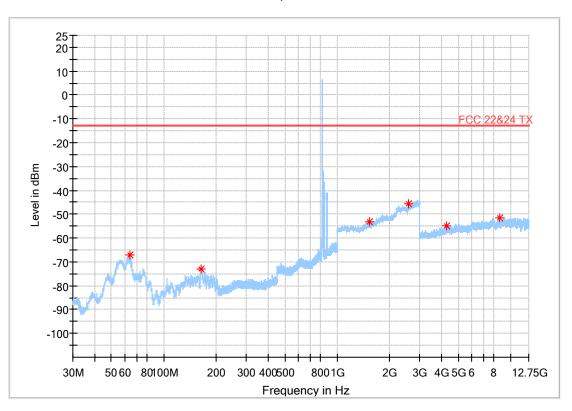
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7.2.1.1.2. LCH-Horizontal

Full Spectrum



Critical_Freqs

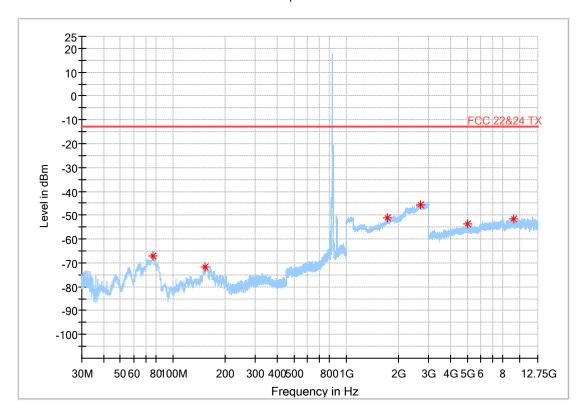
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.113333	-67.16	-13.00	54.16			200.0	Н	334.0	-96.8
164.773333	-72.87	-13.00	59.87			200.0	Η	217.0	-107.5
1543.500000	-53.19	-13.00	40.19			200.0	Η	284.0	-88.3
2580.000000	-45.62	-13.00	32.62			200.0	Η	251.0	-80.5
4282.125000	-54.77	-13.00	41.77			200.0	Η	210.0	-102.7
8701.312500	-51.43	-13.00	38.43			200.0	Η	0.0	-97.7



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7.2.1.1.3. MCH-Vertical

Full Spectrum



Critical_Freqs

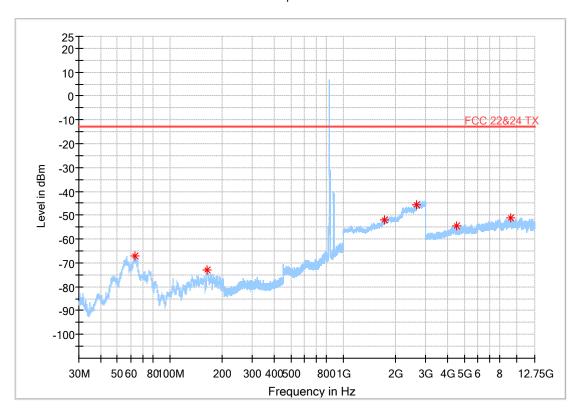
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
76.760000	-66.93	-13.00	53.93			200.0	V	312.0	-107.8
154.880000	-71.60	-13.00	58.60			200.0	V	80.0	-108.9
1726.000000	-51.23	-13.00	38.23			200.0	V	143.0	-86.7
2678.000000	-45.45	-13.00	32.45			200.0	V	249.0	-78.9
5053.837500	-53.64	-13.00	40.64			200.0	V	0.0	-101.6
9231.225000	-51.38	-13.00	38.38			200.0	V	0.0	-97.0



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7.2.1.1.4. MCH-Horizontal

Full Spectrum



Critical_Freqs

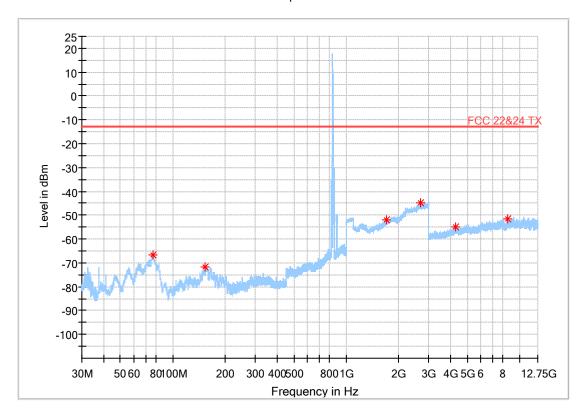
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.993333	-67.08	-13.00	54.08			200.0	Η	359.0	-95.7
165.660000	-73.03	-13.00	60.03			200.0	Η	196.0	-107.4
1725.500000	-51.78	-13.00	38.78			200.0	Н	142.0	-86.8
2643.000000	-45.54	-13.00	32.54			200.0	Η	104.0	-79.9
4541.962500	-54.69	-13.00	41.69			200.0	Η	210.0	-103.0
9213.675000	-51.27	-13.00	38.27			200.0	Н	1.0	-96.9



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7.2.1.1.5. HCH-Vertical

Full Spectrum



Critical_Freqs

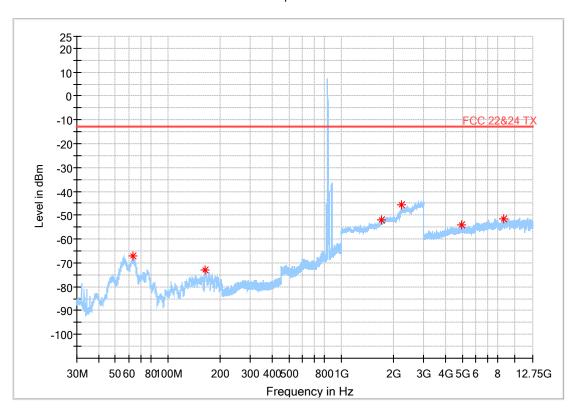
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
77.413333	-66.82	-13.00	53.82			200.0	V	310.0	-108.4
154.880000	-71.55	-13.00	58.55			200.0	V	101.0	-108.9
1705.000000	-52.08	-13.00	39.08			200.0	V	284.0	-86.8
2676.500000	-44.67	-13.00	31.67			200.0	V	104.0	-78.9
4283.587500	-54.72	-13.00	41.72			200.0	V	1.0	-102.8
8537.512500	-51.72	-13.00	38.72			200.0	V	210.0	-97.9



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7.2.1.1.6. HCH-Horizontal





Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.853333	-67.15	-13.00	54.15			200.0	Н	29.0	-95.5
165.100000	-72.85	-13.00	59.85			200.0	Н	215.0	-107.5
1707.500000	-51.92	-13.00	38.92			200.0	Н	2.0	-86.9
2243.000000	-45.73	-13.00	32.73			200.0	Н	35.0	-81.7
4957.800000	-54.03	-13.00	41.03			200.0	Н	1.0	-101.5
8661.337500	-51.66	-13.00	38.66			200.0	Н	0.0	-97.6

Remark:

- 1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

				\	/oltage					
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	0.40	0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	0.90	0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	0.30	0.000362	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	0.40	0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	0.80	0.000956	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	0.40	0.000478	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	0.30	0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.20	-0.000237	±2.5	PASS

8.2. Frequency Vs Temperature

	Temperature											
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict		
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	0.50	0.000603	±2.5	PASS		
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	0.30	0.000362	±2.5	PASS		
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.20	-0.000241	±2.5	PASS		
Band5	10MHz	QPSK	20450	50RB#0	NV	10	0.00	0.000000	±2.5	PASS		
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.40	0.000483	±2.5	PASS		
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.60	0.000724	±2.5	PASS		



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Band5	10MHz	QPSK	20450	50RB#0	NV	40	1.00	0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	0.40	0.000483	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	0.10	0.000121	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	0.80	0.000965	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	0.30	0.000362	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	0.70	0.000844	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	0.10	0.000121	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	0.80	0.000965	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	0.50	0.000603	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	1.00	0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	0.70	0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	1.00	0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	0.80	0.000956	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	0.70	0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	1.20	0.001435	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	0.80	0.000956	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	0.60	0.000330	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-0.10	-0.000110	±2.5	PASS
Band5	10MHz 10MHz	64QAM 64QAM	20600 20600	50RB#0 50RB#0	NV NV	10 20	-0.20 -1.10	-0.000237 -0.001303	±2.5	PASS PASS
Band5		64QAM							±2.5	
Band5	10MHz		20600	50RB#0	NV NV	30	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV NV	40	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV NV	50	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV NV	-30	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	0.90	0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	0.80	0.000965	±2.5	PASS



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Band5	10MHz	16QAM	20450	50RB#0	NV	30	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	0.60	0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	0.10	0.000121	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.30	0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.70	0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	0.70	0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-1.00	-0.001185	±2.5	PASS

The End

