Appendix B

E-UTRA BAND 13

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CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER 3
1.1. Test Result 3
2. PEAK-TO-AVERAGE RATIO(CCDF) 5
2.1. Test Result 5
2.2. Test Plots 5
3. MODULATION CHARACTERISTICS 6
3.1. Test BAND = LTE BAND13 6
3.1.1. Test Mode = LTE /TM1 10MHz 6
3.1.1.1. Test Channel = MCH 6
3.1.2. Test Mode = LTE /TM2 10MHz 7
3.1.2.1. Test Channel = MCH 7
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 8
4.1. Test Result 8
4.2. Test Plots 8
5. BAND EDGE COMPLIANCE 13
5.1. Test Plots 13
6. SPURIOUS EMISSION AT ANTENNA TERMINAL 20
6.1. Test Plots 20
7. FIELD STRENGTH OF SPURIOUS RADIATION 21
7.1. Test BAND = LTE BAND 13 21
7.1.1. Test Mode =LTE/TM1 10MHz 21
7.1.1.1. Test Channel = LCH 21
7.1.1.2. Test Channel = MCH 21
7.1.1.3. Test Channel = HCH 22
7.1.1.4. Spot Check worse mode 22
8. FREQUENCY STABILITY 24
8.1. Frequency Vs Voltage 24
8.2. Frequency Vs Temperature 24

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.68	25.98	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.28	25.58	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.63	25.93	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.62	24.92	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.61	24.91	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.55	24.85	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.65	24.95	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.67	25.97	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.85	26.15	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.82	26.12	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.54	24.84	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.74	25.04	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.72	25.02	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.60	24.90	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.62	25.92	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.13	26.43	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.75	26.05	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.52	24.82	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.67	24.97	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.65	24.95	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.58	24.88	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.19	24.49	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.60	24.90	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.89	24.19	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.54	23.84	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.56	23.86	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.61	23.91	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.68	23.98	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.11	24.41	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.29	24.59	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.04	24.34	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.66	23.96	34.77	PASS

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Band13	5MHz	16QAM	23230	12RB#6	21.64	23.94	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.50	23.80	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.72	24.02	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.23	24.53	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.44	24.74	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.19	24.49	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.48	23.78	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.55	23.85	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.31	23.61	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.51	23.81	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.60	25.90	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.95	26.25	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.62	25.92	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.53	24.83	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.71	25.01	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.50	24.80	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.58	24.88	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.30	24.60	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.34	24.64	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.31	24.61	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.59	23.89	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.58	23.88	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.60	23.90	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.70	24.00	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level

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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.06	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.13	13	PASS

2.2. Test Plots

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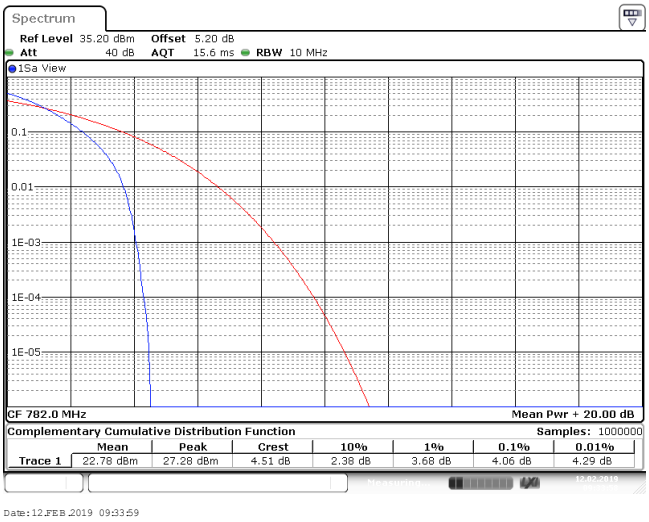
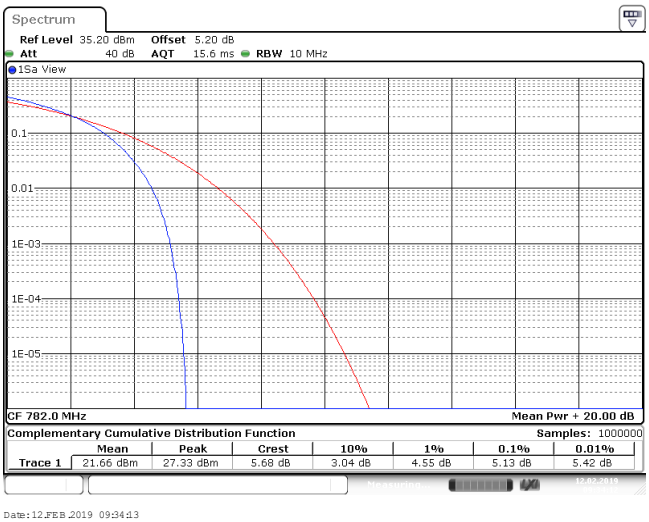


Band13_10MHz_16QAM_23230_50RB#0



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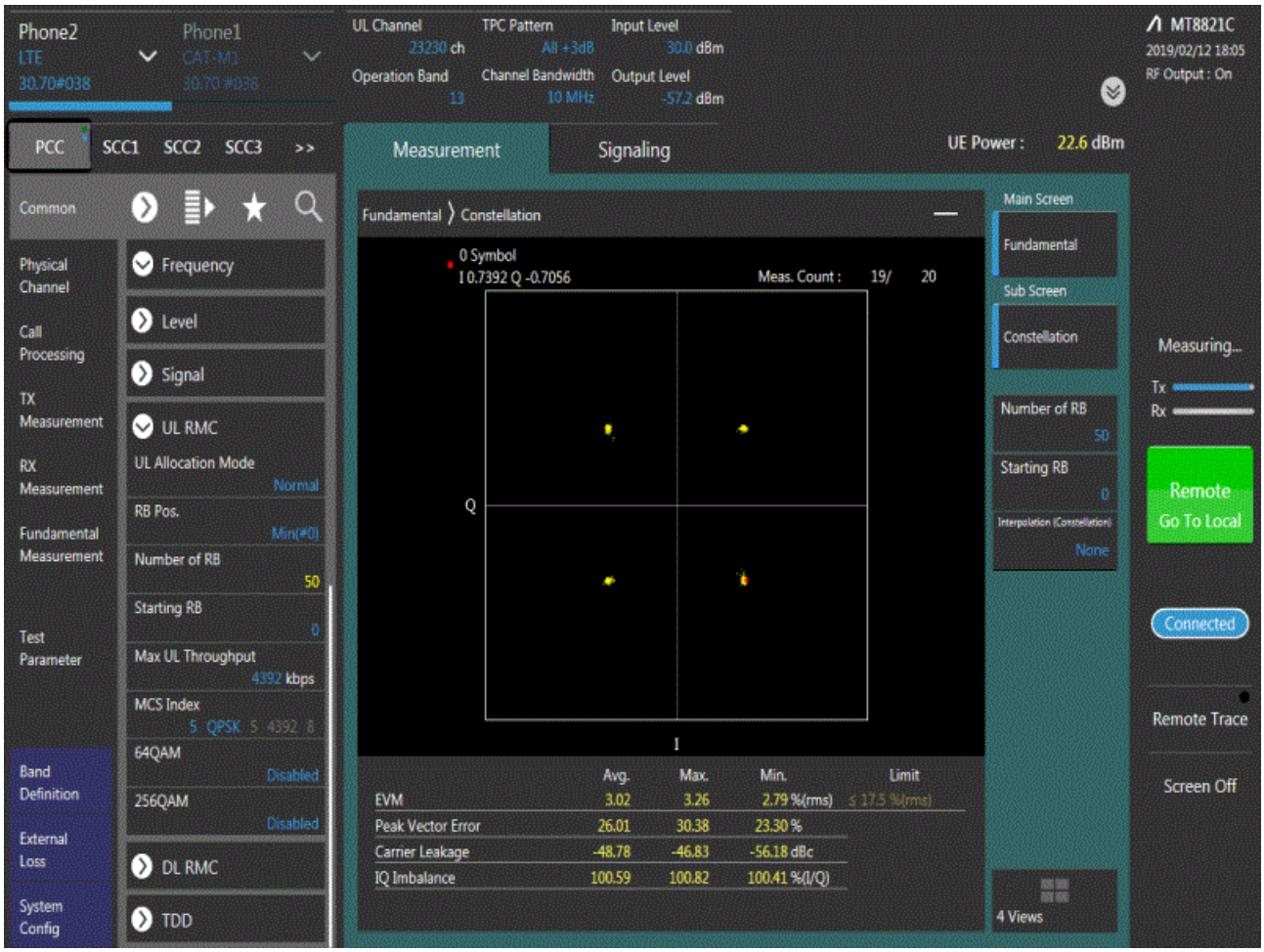
3. Modulation Characteristics

3.1. Test BAND = LTE BAND13

3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



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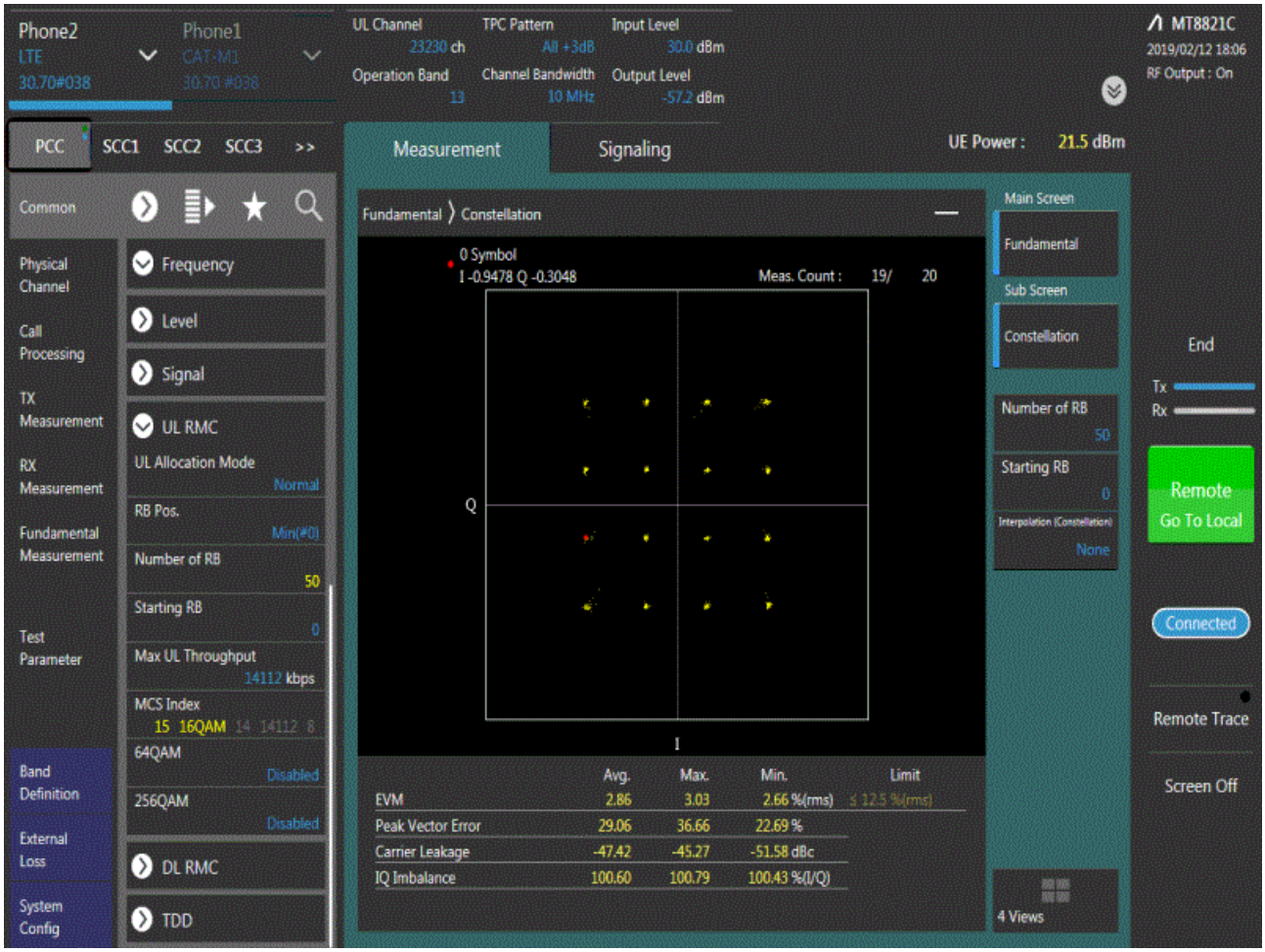
3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



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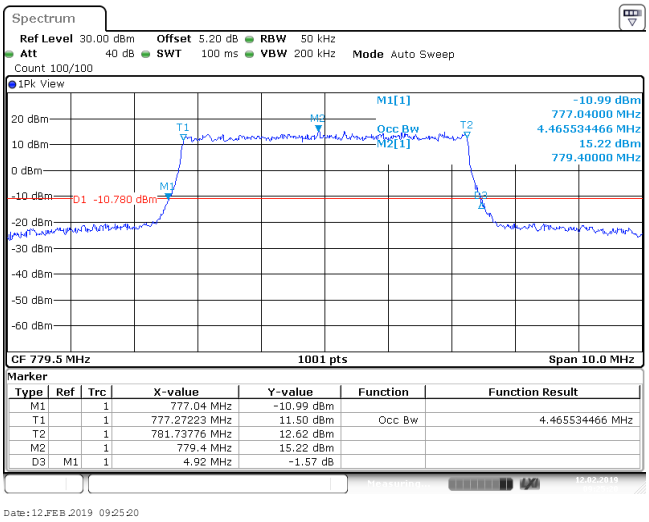
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.466	4.920	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.920	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.950	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.486	4.960	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	4.970	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	4.970	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.640	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.911	9.740	PASS

4.2. Test Plots

Band13_5MHz_QPSK_23205_25RB#0



Band13_5MHz_QPSK_23230_25RB#0

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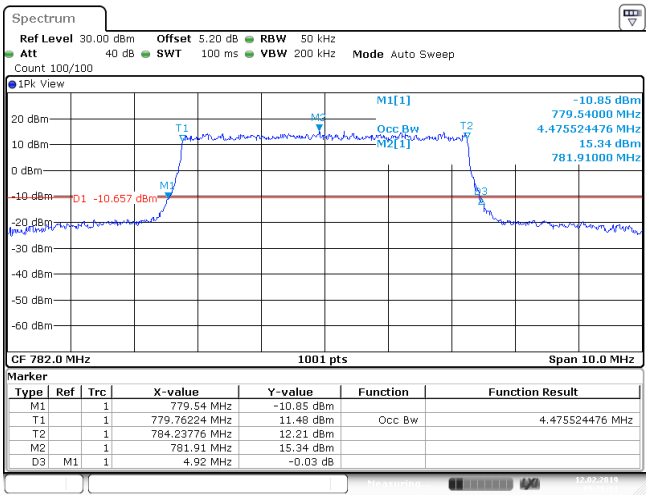
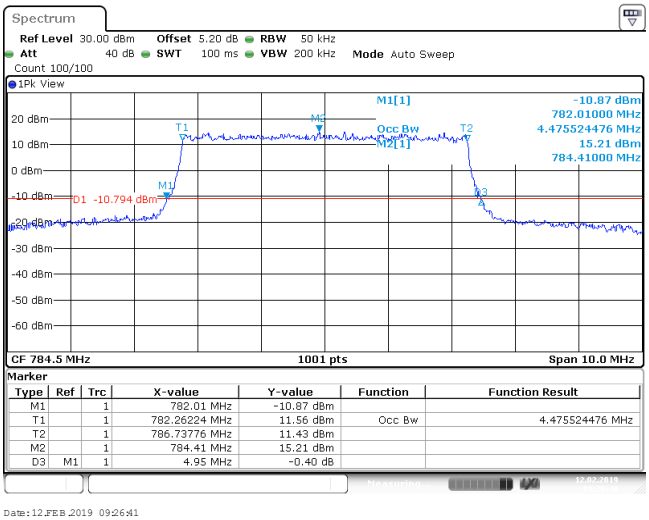


Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23205_25RB#0

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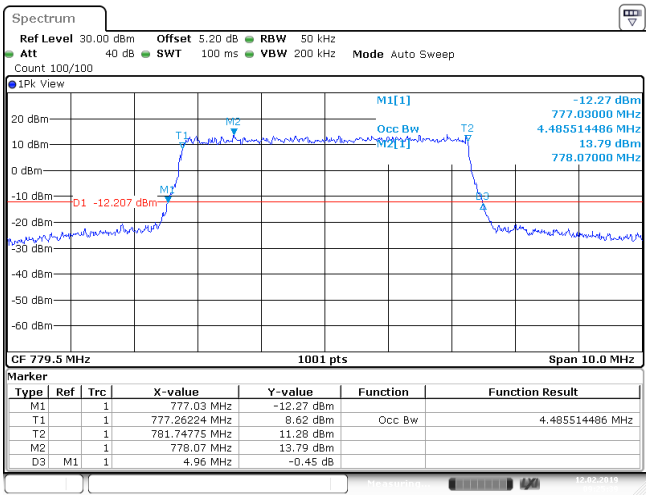
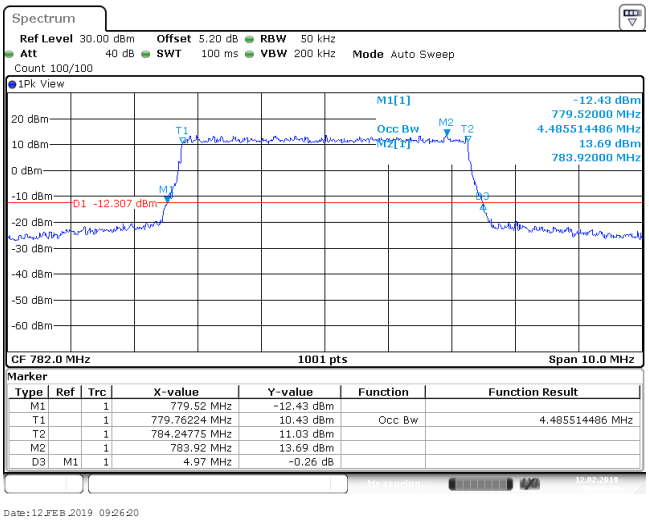


Band13_5MHz_16QAM_23230_25RB#0



Band13_5MHz_16QAM_23255_25RB#0

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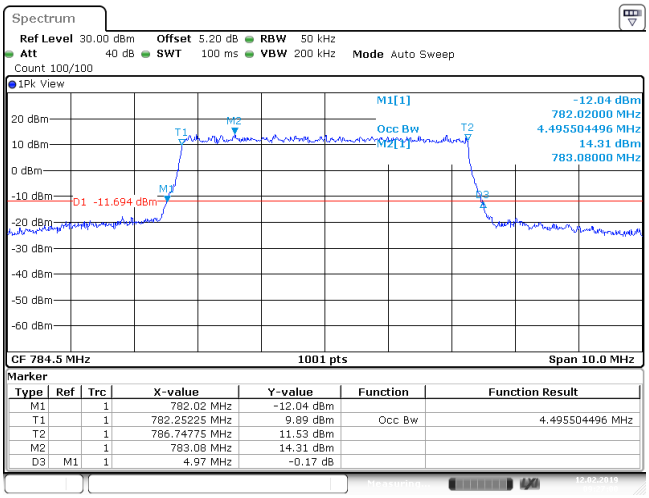

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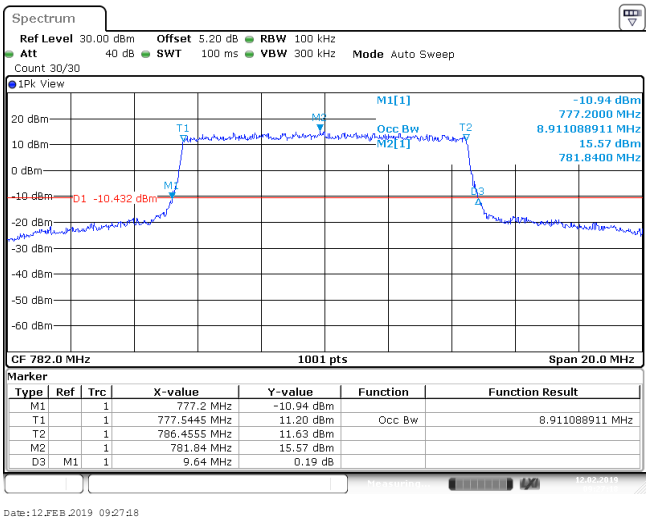

Band13_10MHz_16QAM_23230_50RB#0

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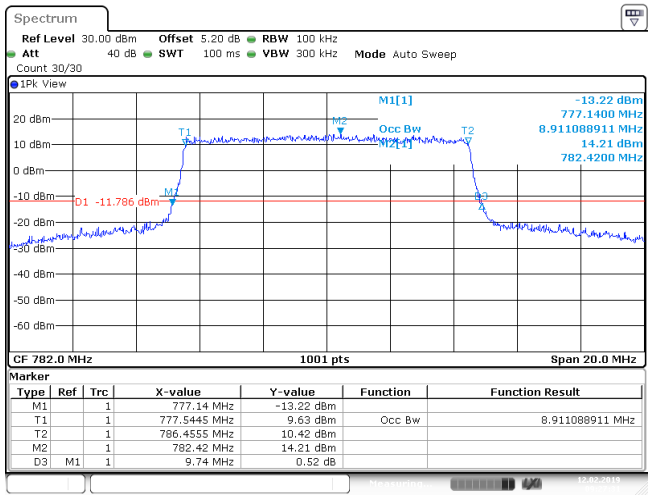

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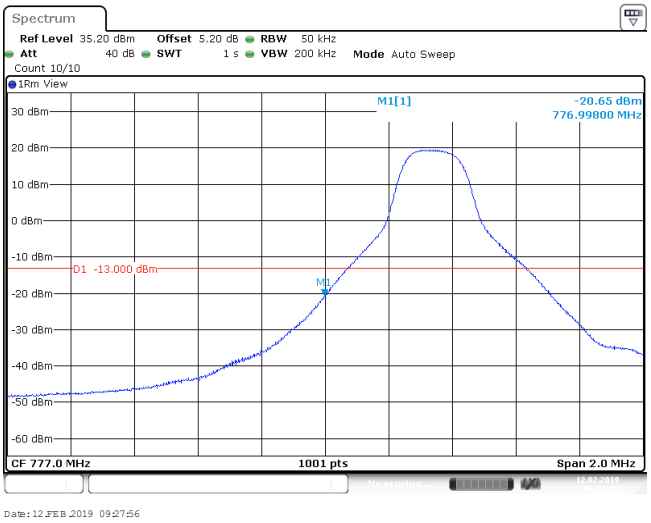
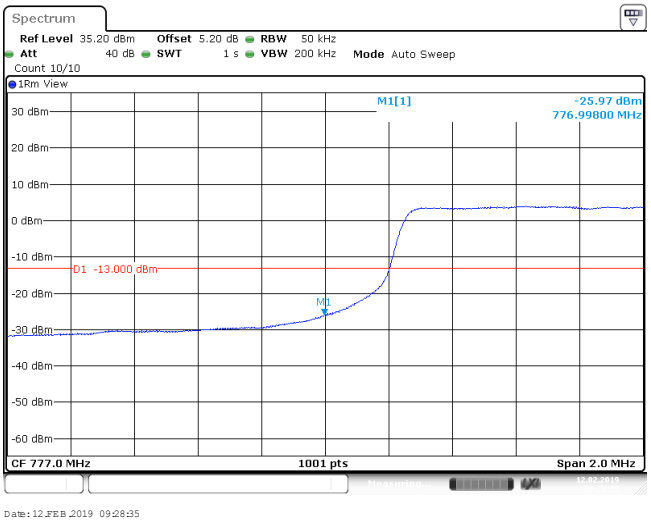
5. Band Edge Compliance

5.1. Test Plots

Band13_5MHz_QPSK_23205_1RB#0



Band13_5MHz_QPSK_23205_25RB#0



Band13_5MHz_QPSK_23255_1RB#24

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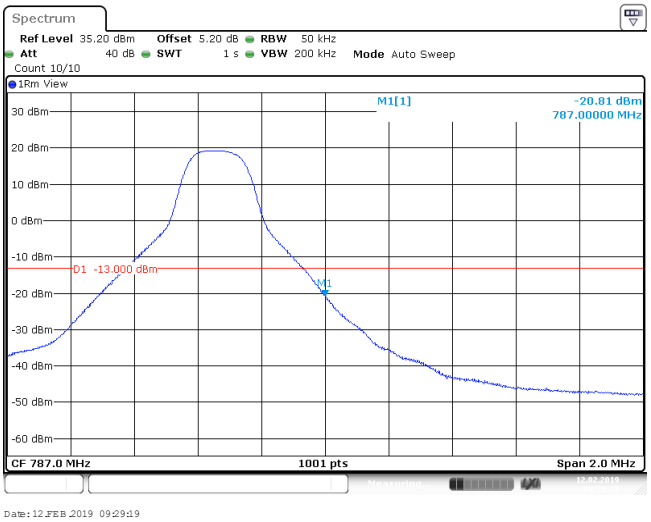

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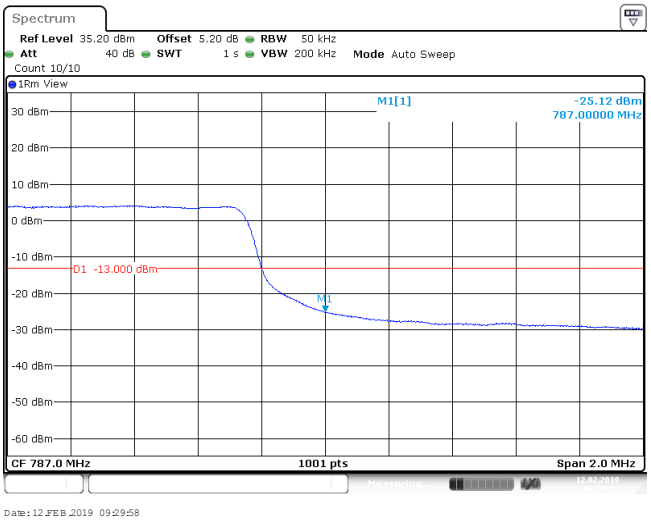

Band13_5MHz_16QAM_23205_1RB#0

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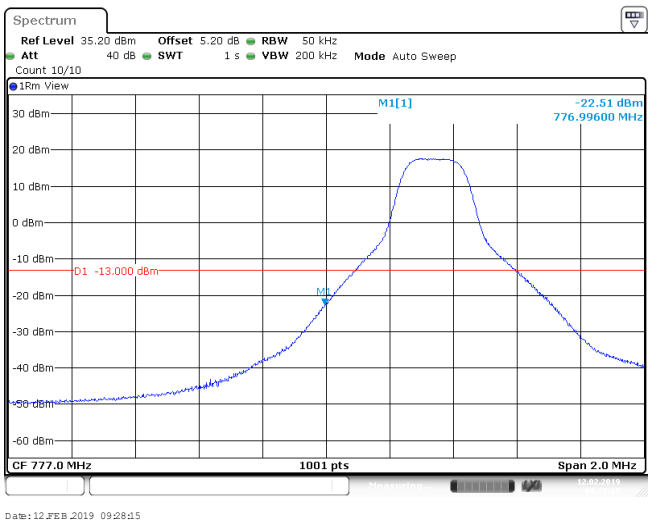

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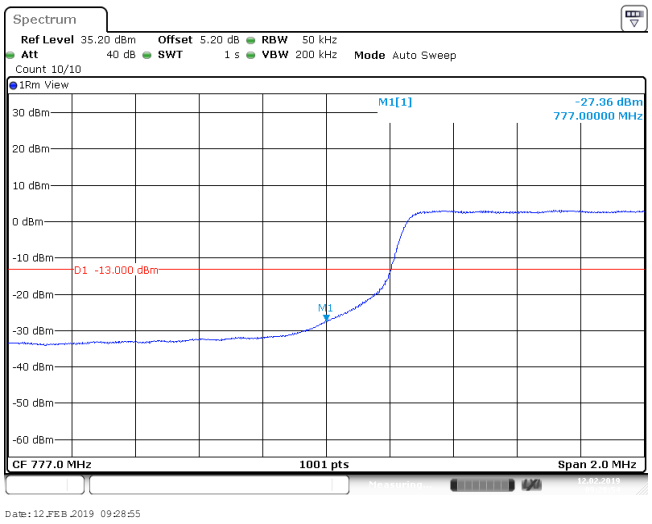

Band13_5MHz_16QAM_23255_1RB#24

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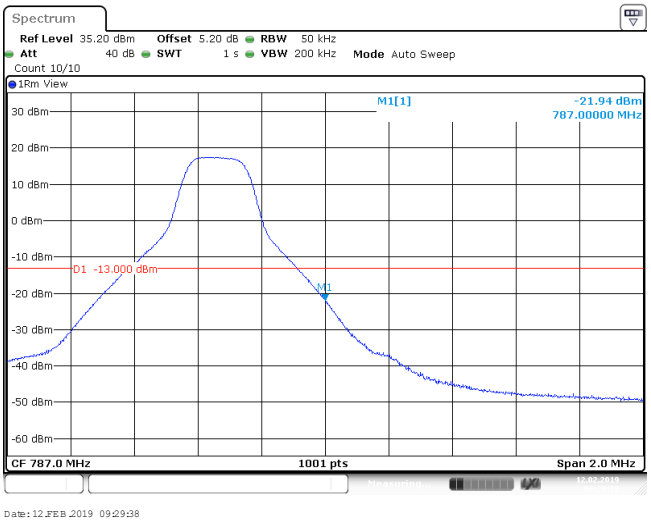

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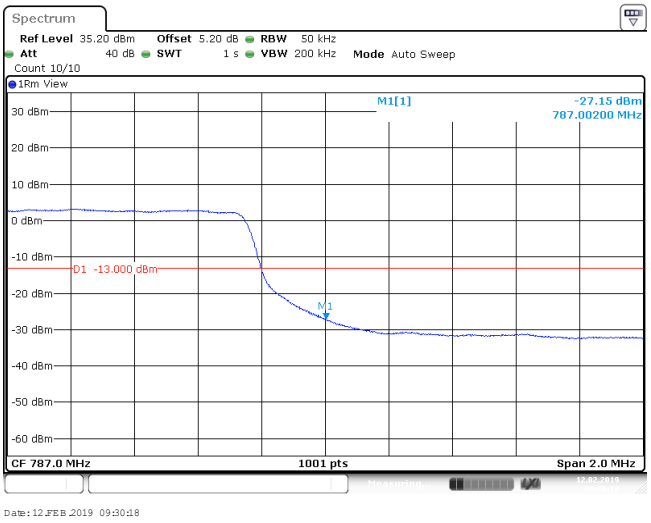

Band13_10MHz_QPSK_23230_Left_1RB#0

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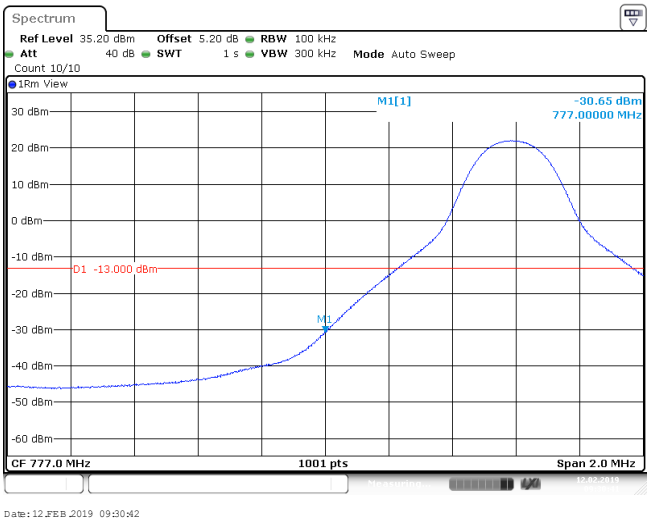

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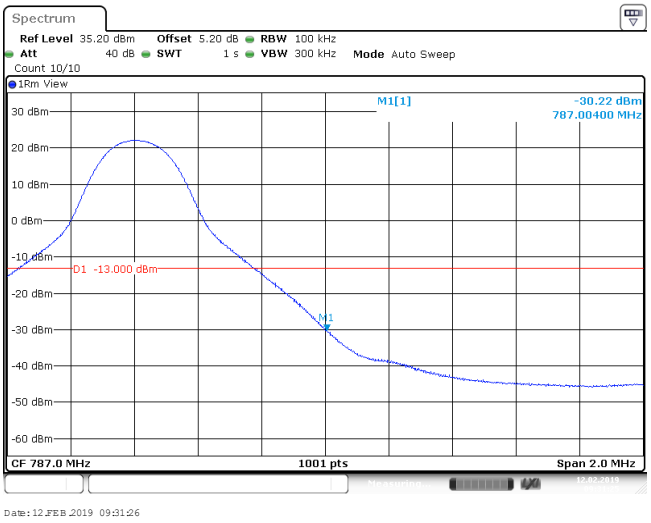

Band13_10MHz_QPSK_23230_Right_50RB#0

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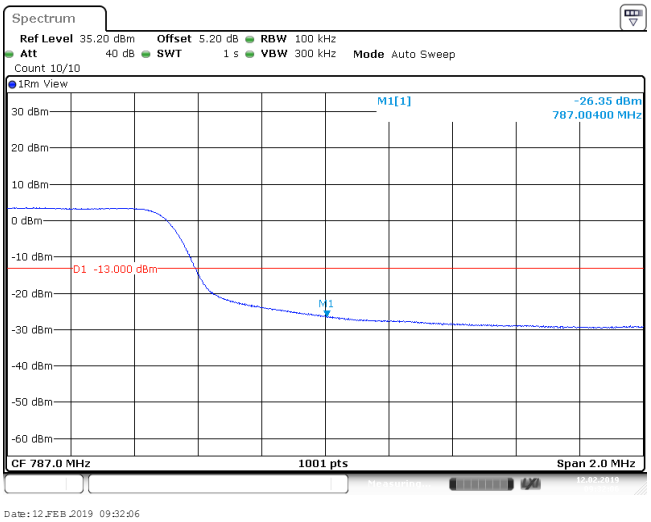

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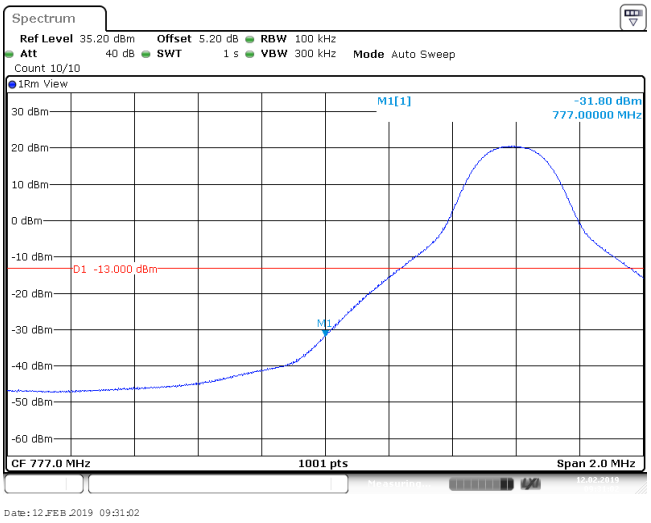

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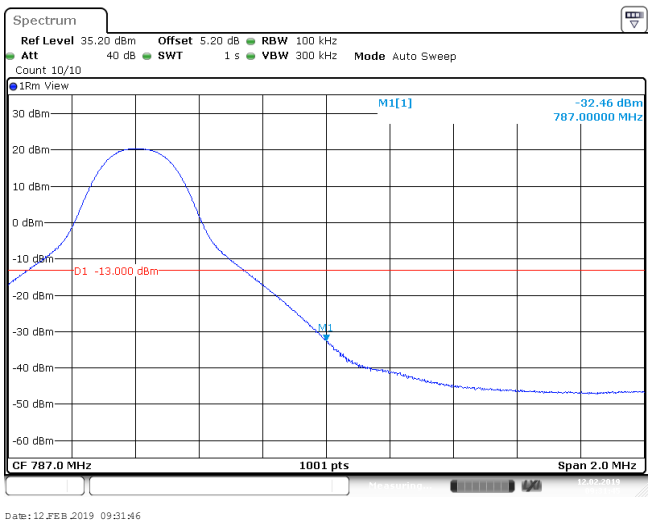
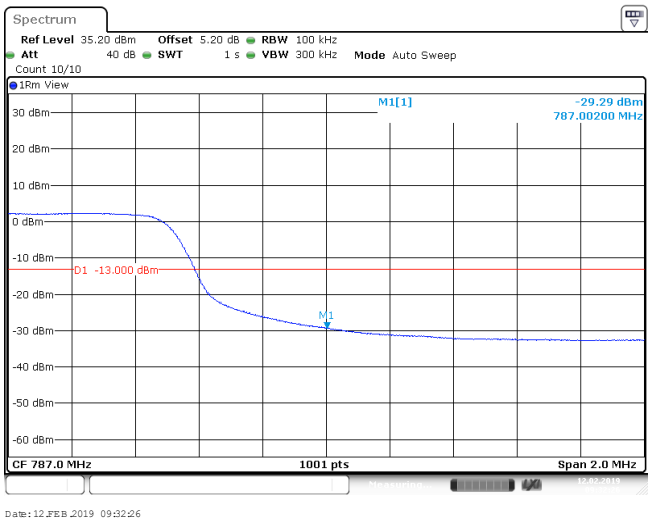


Band13_10MHz_16QAM_23230_Right_50RB#0



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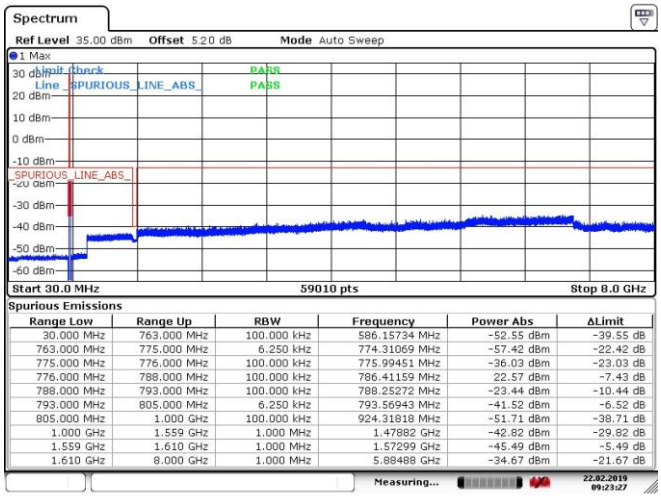
6. Spurious Emission at Antenna Terminal

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.

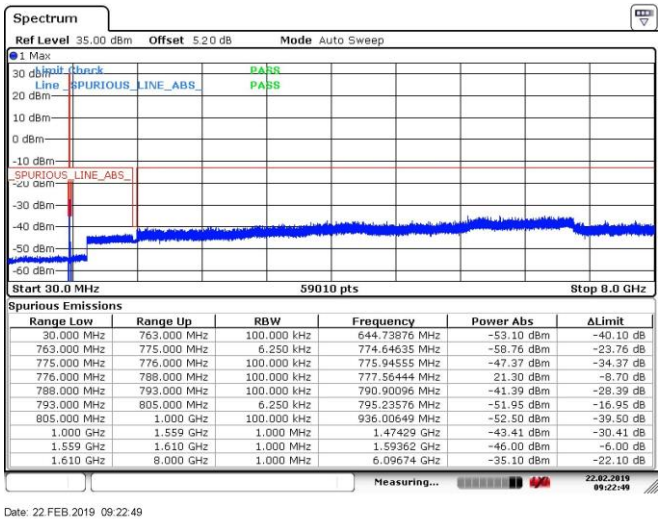
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band13_10MHz_QPSK_23230_1RB#0



Band13_10MHz_QPSK_23230_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 13

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
77.6294	-69.42	-13.00	56.42	Vertical
106.2458	-65.71	-13.00	52.71	Vertical
468.1224	-67.33	-13.00	54.33	Vertical
1559.7119	-59.56	-40.00	19.56	Vertical
4678.8672	-50.47	-13.00	37.47	Vertical
17998.8000	-33.28	-13.00	20.28	Vertical
43.8717	-65.04	-13.00	52.04	Horizontal
165.8068	-69.77	-13.00	56.77	Horizontal
644.0892	-64.23	-13.00	51.23	Horizontal
1559.7119	-60.84	-40.00	20.84	Horizontal
3119.4048	-56.02	-13.00	43.02	Horizontal
17995.1998	-38.55	-13.00	25.55	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.6379	-69.66	-13.00	56.66	Vertical
118.9534	-65.74	-13.00	52.74	Vertical
467.0554	-67.31	-13.00	54.31	Vertical
1554.5109	-56.14	-13.00	43.14	Vertical
4663.8666	-50.34	-13.00	37.34	Vertical
17995.7998	-33.46	-13.00	20.46	Vertical
45.7633	-65.15	-13.00	52.15	Horizontal
150.9165	-69.18	-13.00	56.18	Horizontal

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378.8779	-67.67	-13.00	54.67	Horizontal
1554.5109	-56.93	-13.00	43.93	Horizontal
4663.8666	-54.66	-13.00	41.66	Horizontal
16393.1357	-39.02	-13.00	26.02	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.6008	-69.84	-13.00	56.84	Vertical
119.5355	-65.61	-13.00	52.61	Vertical
442.7556	-67.56	-13.00	54.56	Vertical
1564.5129	-59.83	-40.00	19.83	Vertical
4693.8678	-51.24	-13.00	38.24	Vertical
17988.5995	-33.65	-13.00	20.65	Vertical
44.8417	-64.04	-13.00	51.04	Horizontal
164.8367	-69.86	-13.00	56.86	Horizontal
517.1584	-66.49	-13.00	53.49	Horizontal
1564.5129	-59.64	-40.00	19.64	Horizontal
4693.8678	-55.94	-13.00	42.94	Horizontal
16387.7355	-38.56	-13.00	25.56	Horizontal

7.1.1.4. Spot Check worse mode

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
71.4696	-68.45	-13.00	55.45	Vertical
110.5625	-64.00	-13.00	51.00	Vertical
384.8437	-67.50	-13.00	54.50	Vertical
1564.9110	-48.42	-40.00	8.42	Vertical
3110.4044	-48.93	-13.00	35.93	Vertical
17993.9998	-33.73	-13.00	20.73	Vertical
41.9316	-63.93	-13.00	50.93	Horizontal
149.5100	-67.76	-13.00	54.76	Horizontal

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243.1197	-67.55	-13.00	54.55	Horizontal
1564.9110	-51.43	-40.00	11.43	Horizontal
3110.4044	-52.29	-13.00	39.29	Horizontal
16401.5361	-38.71	-13.00	25.71	Horizontal

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

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	0.20	0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-2.50	-0.003197	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-1.30	-0.001662	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-0.90	-0.001151	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	0.70	0.000895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.80	-0.001023	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.20	0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-1.60	-0.002046	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.90	-0.002430	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.70	-0.002174	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-1.00	-0.001279	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	0.60	0.000767	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.20	0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	1.10	0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-0.50	-0.000639	±2.5	PASS

The End

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