

Appendix

LTE Band 13 Test Data

Conducted Test Data

Conducted Output Power and EIRP

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
NVNT	Band13	5	23205	1	#0	QPSK	23.94	-1.7	22.24	34.77	PASS
NVNT	Band13	5	23205	1	#Mid	QPSK	24.13	-1.7	22.43	34.77	PASS
NVNT	Band13	5	23205	1	#Max	QPSK	24.08	-1.7	22.38	34.77	PASS
NVNT	Band13	5	23205	12	#0	QPSK	23.04	-1.7	21.34	34.77	PASS
NVNT	Band13	5	23205	12	#Mid	QPSK	23.12	-1.7	21.42	34.77	PASS
NVNT	Band13	5	23205	12	#Max	QPSK	22.97	-1.7	21.27	34.77	PASS
NVNT	Band13	5	23205	25	#0	QPSK	23.01	-1.7	21.31	34.77	PASS
NVNT	Band13	5	23205	1	#0	QAM16	22.95	-1.7	21.25	34.77	PASS
NVNT	Band13	5	23205	1	#Mid	QAM16	23.12	-1.7	21.42	34.77	PASS
NVNT	Band13	5	23205	1	#Max	QAM16	22.69	-1.7	20.99	34.77	PASS
NVNT	Band13	5	23205	12	#0	QAM16	21.71	-1.7	20.01	34.77	PASS
NVNT	Band13	5	23205	12	#Mid	QAM16	21.82	-1.7	20.12	34.77	PASS
NVNT	Band13	5	23205	12	#Max	QAM16	21.73	-1.7	20.03	34.77	PASS
NVNT	Band13	5	23205	25	#0	QAM16	21.95	-1.7	20.25	34.77	PASS
NVNT	Band13	5	23230	1	#0	QPSK	23.83	-1.7	22.13	34.77	PASS
NVNT	Band13	5	23230	1	#Mid	QPSK	23.98	-1.7	22.28	34.77	PASS
NVNT	Band13	5	23230	1	#Max	QPSK	24.01	-1.7	22.31	34.77	PASS
NVNT	Band13	5	23230	12	#0	QPSK	22.97	-1.7	21.27	34.77	PASS
NVNT	Band13	5	23230	12	#Mid	QPSK	23.12	-1.7	21.42	34.77	PASS
NVNT	Band13	5	23230	12	#Max	QPSK	23.02	-1.7	21.32	34.77	PASS
NVNT	Band13	5	23230	25	#0	QPSK	23.00	-1.7	21.30	34.77	PASS
NVNT	Band13	5	23230	1	#0	QAM16	23.31	-1.7	21.61	34.77	PASS
NVNT	Band13	5	23230	1	#Mid	QAM16	23.35	-1.7	21.65	34.77	PASS
NVNT	Band13	5	23230	1	#Max	QAM16	23.43	-1.7	21.73	34.77	PASS
NVNT	Band13	5	23230	12	#0	QAM16	21.94	-1.7	20.24	34.77	PASS
NVNT	Band13	5	23230	12	#Mid	QAM16	22.21	-1.7	20.51	34.77	PASS
NVNT	Band13	5	23230	12	#Max	QAM16	21.99	-1.7	20.29	34.77	PASS
NVNT	Band13	5	23230	25	#0	QAM16	22.00	-1.7	20.30	34.77	PASS
NVNT	Band13	5	23255	1	#0	QPSK	24.04	-1.7	22.34	34.77	PASS
NVNT	Band13	5	23255	1	#Mid	QPSK	24.31	-1.7	22.61	34.77	PASS
NVNT	Band13	5	23255	1	#Max	QPSK	23.72	-1.7	22.02	34.77	PASS
NVNT	Band13	5	23255	12	#0	QPSK	23.11	-1.7	21.41	34.77	PASS
NVNT	Band13	5	23255	12	#Mid	QPSK	23.14	-1.7	21.44	34.77	PASS
NVNT	Band13	5	23255	12	#Max	QPSK	22.94	-1.7	21.24	34.77	PASS
NVNT	Band13	5	23255	25	#0	QPSK	23.10	-1.7	21.40	34.77	PASS
NVNT	Band13	5	23255	1	#0	QAM16	23.45	-1.7	21.75	34.77	PASS
NVNT	Band13	5	23255	1	#Mid	QAM16	23.58	-1.7	21.88	34.77	PASS

NVNT	Band13	5	23255	1	#Max	QAM16	22.77	-1.7	21.07	34.77	PASS
NVNT	Band13	5	23255	12	#0	QAM16	21.94	-1.7	20.24	34.77	PASS
NVNT	Band13	5	23255	12	#Mid	QAM16	21.87	-1.7	20.17	34.77	PASS
NVNT	Band13	5	23255	12	#Max	QAM16	21.81	-1.7	20.11	34.77	PASS
NVNT	Band13	5	23255	25	#0	QAM16	22.12	-1.7	20.42	34.77	PASS
NVNT	Band13	10	23230	1	#0	QPSK	24.18	-1.7	22.48	34.77	PASS
NVNT	Band13	10	23230	1	#Mid	QPSK	24.17	-1.7	22.47	34.77	PASS
NVNT	Band13	10	23230	1	#Max	QPSK	23.86	-1.7	22.16	34.77	PASS
NVNT	Band13	10	23230	25	#0	QPSK	23.05	-1.7	21.35	34.77	PASS
NVNT	Band13	10	23230	25	#Mid	QPSK	23.10	-1.7	21.40	34.77	PASS
NVNT	Band13	10	23230	25	#Max	QPSK	23.02	-1.7	21.32	34.77	PASS
NVNT	Band13	10	23230	50	#0	QPSK	23.06	-1.7	21.36	34.77	PASS
NVNT	Band13	10	23230	1	#0	QAM16	23.40	-1.7	21.70	34.77	PASS
NVNT	Band13	10	23230	1	#Mid	QAM16	24.06	-1.7	22.36	34.77	PASS
NVNT	Band13	10	23230	1	#Max	QAM16	23.54	-1.7	21.84	34.77	PASS
NVNT	Band13	10	23230	25	#0	QAM16	22.09	-1.7	20.39	34.77	PASS
NVNT	Band13	10	23230	25	#Mid	QAM16	22.26	-1.7	20.56	34.77	PASS
NVNT	Band13	10	23230	25	#Max	QAM16	22.03	-1.7	20.33	34.77	PASS

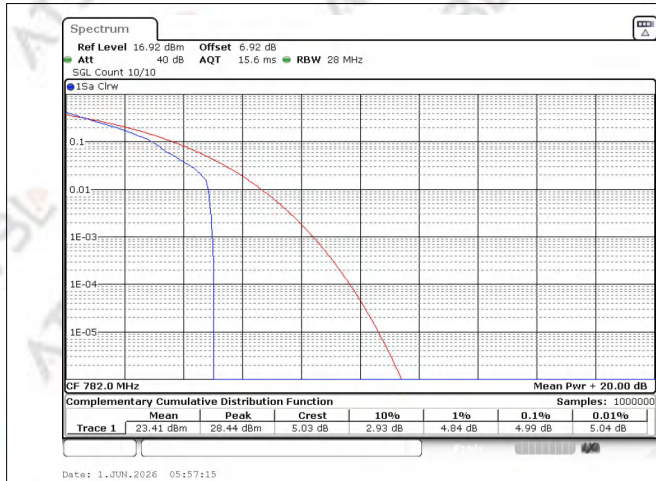
Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Verdict
Band13	10	20525	50	#0	QPSK	VL	NT	0.28	0	PASS
Band13	10	20525	50	#0	QPSK	VN	NT	3.6	0.005	PASS
Band13	10	20525	50	#0	QPSK	VH	NT	2.55	0.003	PASS

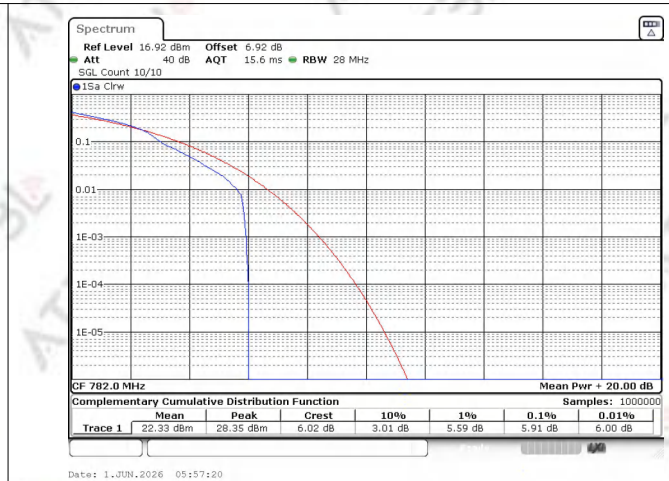
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Verdict
Band13	10	20525	50	#0	QPSK	NV	-30	-0.82	-0.001	PASS
Band13	10	20525	50	#0	QPSK	NV	-20	1.27	0.002	PASS
Band13	10	20525	50	#0	QPSK	NV	-10	-0.79	-0.001	PASS
Band13	10	20525	50	#0	QPSK	NV	0	-1.59	-0.002	PASS
Band13	10	20525	50	#0	QPSK	NV	10	-6.24	-0.002	PASS
Band13	10	20525	50	#0	QPSK	NV	20	-2.82	-0.001	PASS
Band13	10	20525	50	#0	QPSK	NV	30	-1.26	-0.002	PASS
Band13	10	20525	50	#0	QPSK	NV	40	1.41	0.001	PASS
Band13	10	20525	50	#0	QPSK	NV	50	1.09	0.001	PASS

Peak-to-Average Ratio

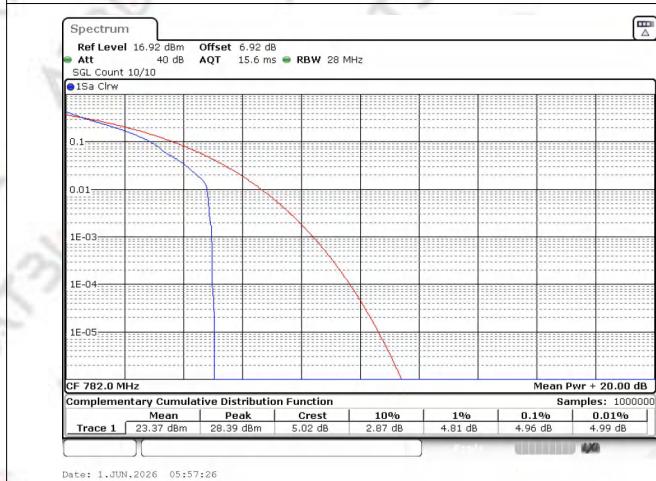
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
NVNT	Band13	5	23230	1	#0	QPSK	4.99	13	PASS
NVNT	Band13	5	23230	1	#0	QAM16	5.91	13	PASS
NVNT	Band13	10	23230	1	#0	QPSK	4.96	13	PASS
NVNT	Band13	10	23230	1	#0	QAM16	5.74	13	PASS



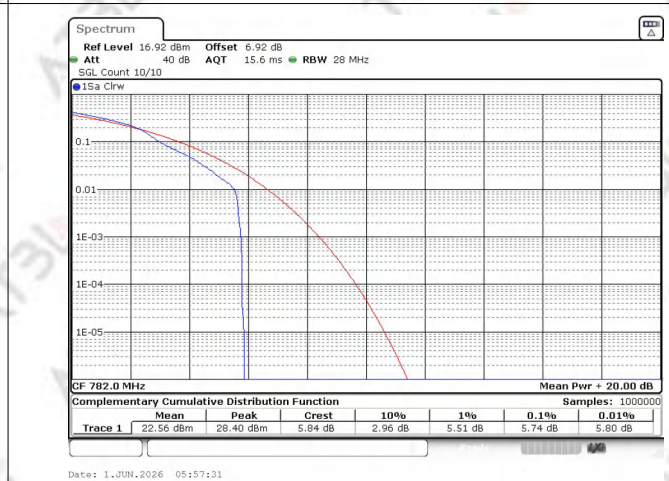
Band13 QPSK BW=5MHz Channel=23230 RB Size=1 Position=#0
NVNT



Band13 QAM16 BW=5MHz Channel=23230 RB Size=1 Position=#0
NVNT



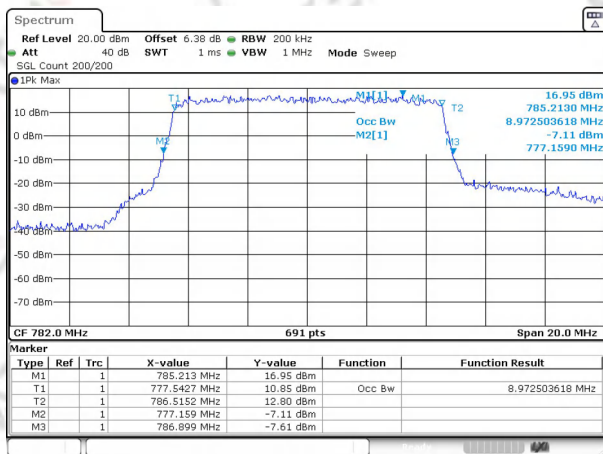
Band13 QPSK BW=10MHz Channel=23230 RB Size=1 Position=#0
NVNT



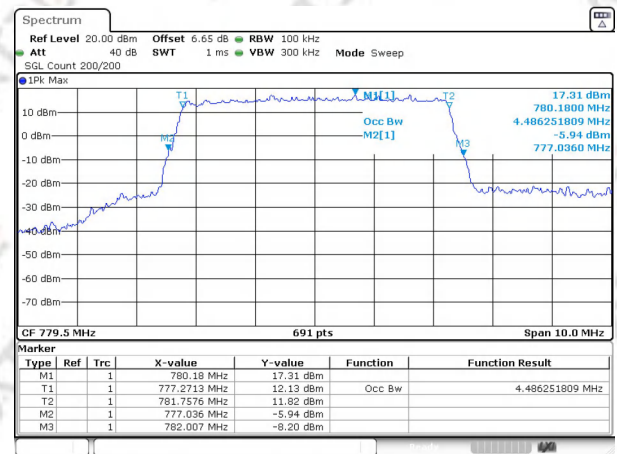
Band13 QAM16 BW=10MHz Channel=23230 RB Size=1 Position=#0
NVNT

Occupied bandwidth

Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
NVNT	Band13	5	23205	25	#0	QPSK	4.486	4.986	PASS
NVNT	Band13	5	23205	25	#0	QAM16	4.486	4.971	PASS
NVNT	Band13	5	23230	25	#0	QPSK	4.515	4.942	PASS
NVNT	Band13	5	23230	25	#0	QAM16	4.501	4.899	PASS
NVNT	Band13	5	23255	25	#0	QPSK	4.515	4.957	PASS
NVNT	Band13	5	23255	25	#0	QAM16	4.501	4.928	PASS
NVNT	Band13	10	23230	50	#0	QPSK	8.973	9.826	PASS
NVNT	Band13	10	23230	50	#0	QAM16	8.973	9.739	PASS



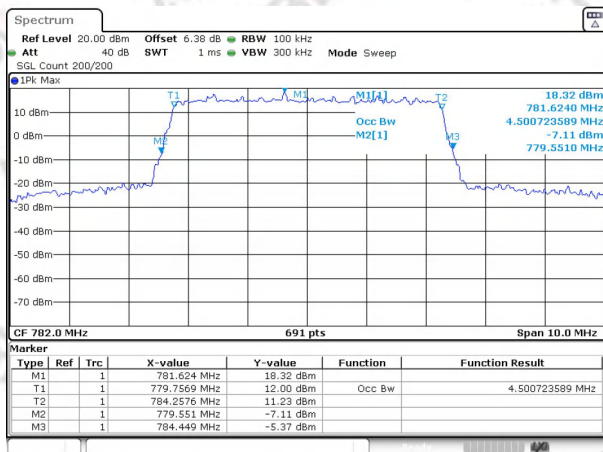
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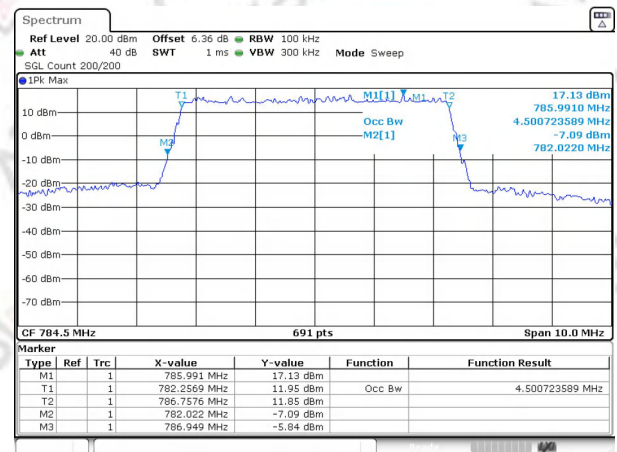
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Band13 QAM16 BW=10MHz Channel=23230 RB Size=50 Position=#0

Band13 QAM16 BW=5MHz Channel=23205 RB Size=25 Position=#0



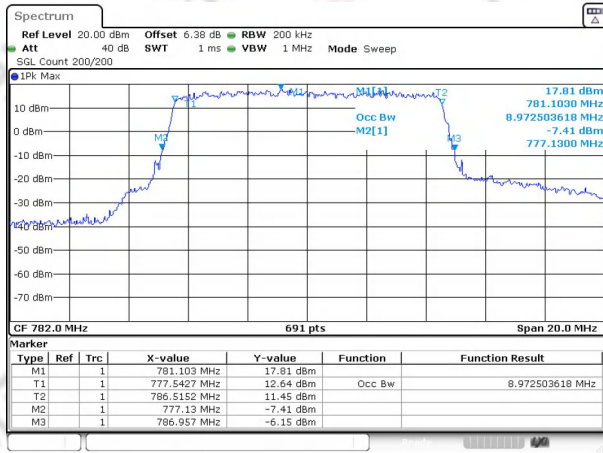
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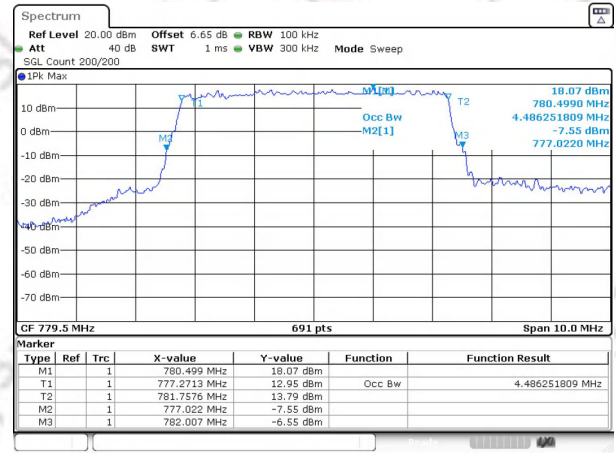
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Band13 QAM16 BW=5MHz Channel=23230 RB Size=25 Position=#0

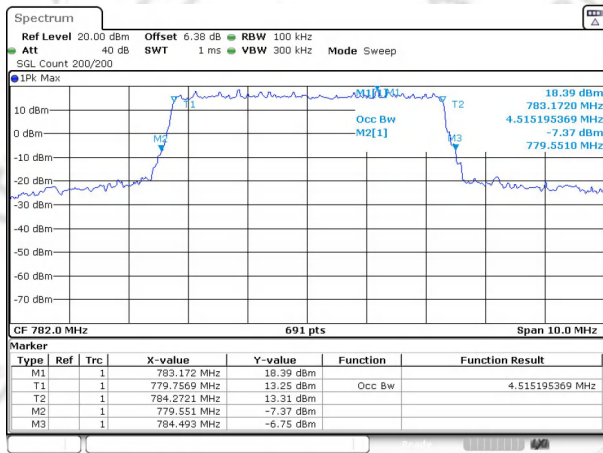
Band13 QAM16 BW=5MHz Channel=23255 RB Size=25 Position=#0



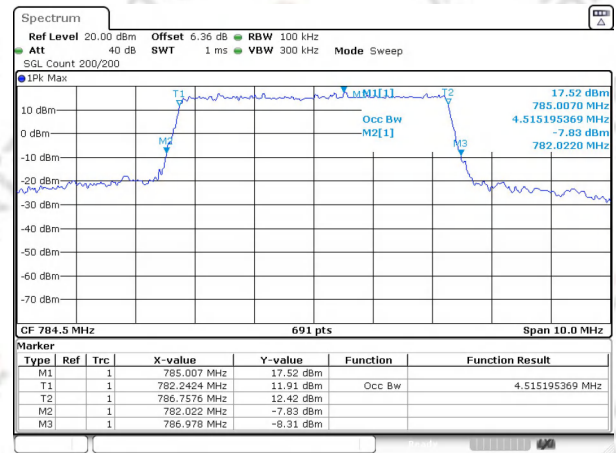
Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0



Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0



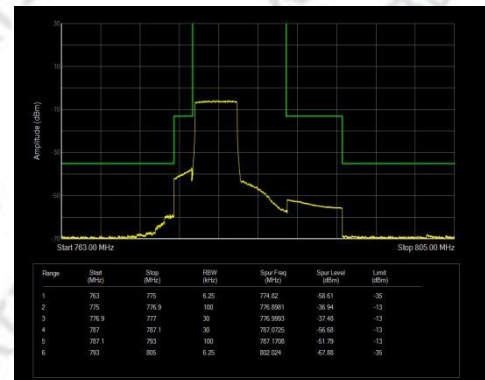
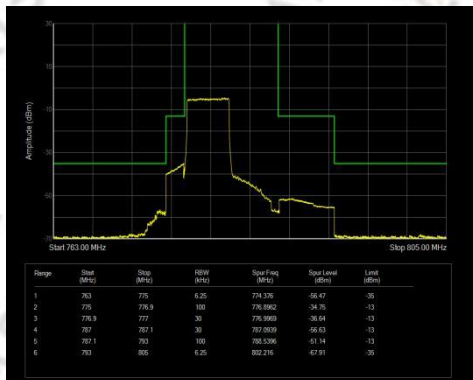
Band13 QPSK BW=5MHz Channel=23230 RB Size=25 Position=#0



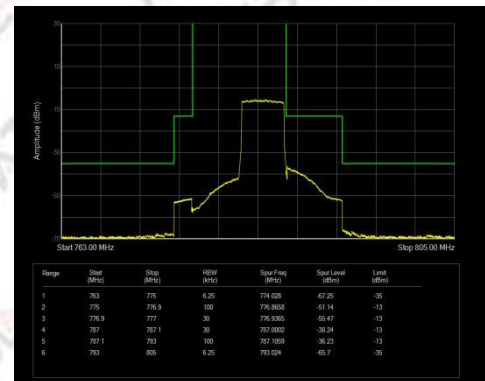
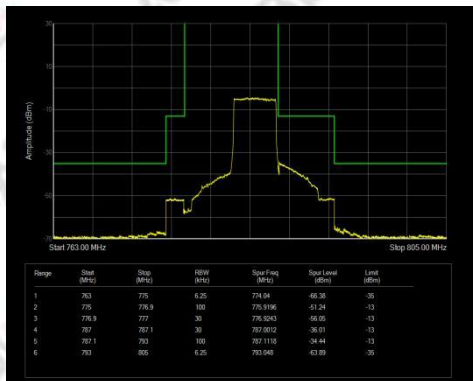
Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0

Band edge

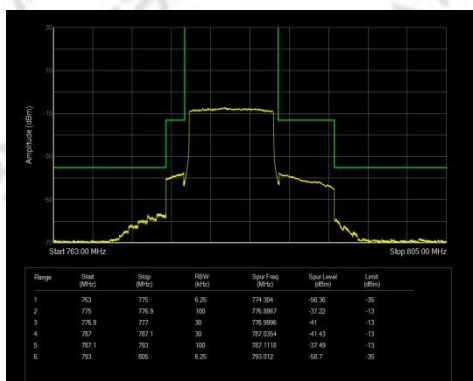
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band13	5	23205	25	#0	QPSK	774.38	-56.47	-35	PASS
NVNT	Band13	5	23205	25	#0	QAM16	774.82	-58.61	-35	PASS
NVNT	Band13	5	23255	25	#0	QPSK	787.11	-34.44	-13	PASS
NVNT	Band13	5	23255	25	#0	QAM16	787.11	-36.23	-13	PASS
NVNT	Band13	10	23230	50	#0	QPSK	774.30	-56.36	-35	PASS



Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0 NVNT

Band13 QAM16 BW=5MHz Channel=23205 RB Size=25
Position=#0 NVNT


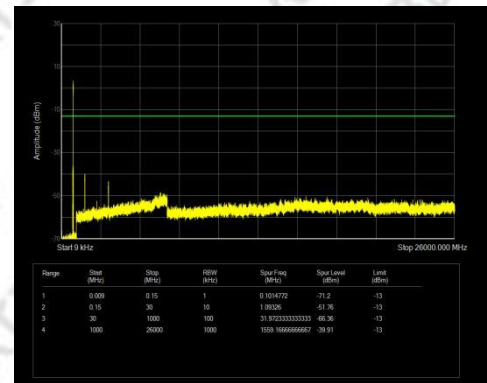
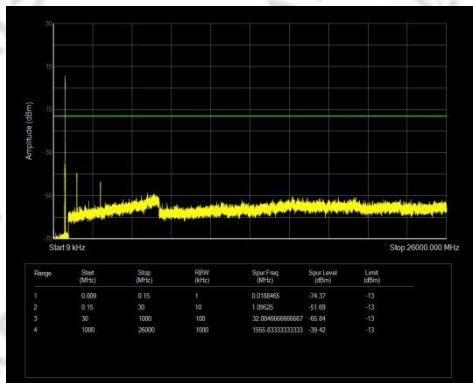
Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0 NVNT

Band13 QAM16 BW=5MHz Channel=23255 RB Size=25
Position=#0 NVNT


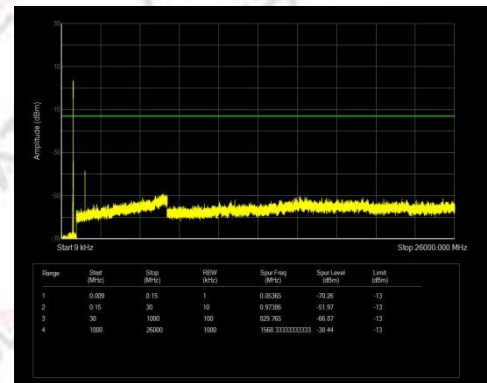
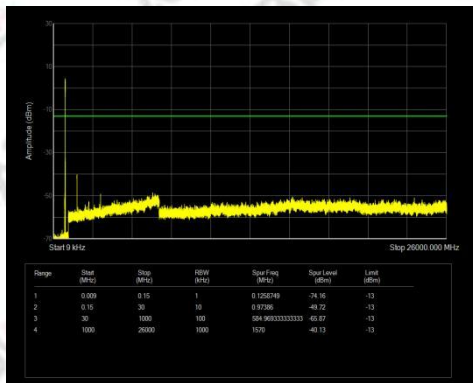
Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0 NVNT

Out-of-band emissions

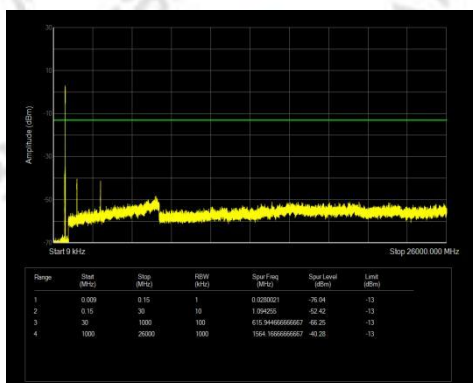
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band13	5	23205	25	#0	QPSK	1555.83	-39.42	-13	PASS
NVNT	Band13	5	23205	25	#0	QAM16	1559.17	-39.91	-13	PASS
NVNT	Band13	5	23255	25	#0	QPSK	1570.00	-40.13	-13	PASS
NVNT	Band13	5	23255	25	#0	QAM16	1568.33	-38.44	-13	PASS
NVNT	Band13	10	23230	50	#0	QPSK	1564.17	-40.28	-13	PASS



Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0 NVNT

Band13 QAM16 BW=5MHz Channel=23205 RB Size=25
Position=#0 NVNT


Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0 NVNT

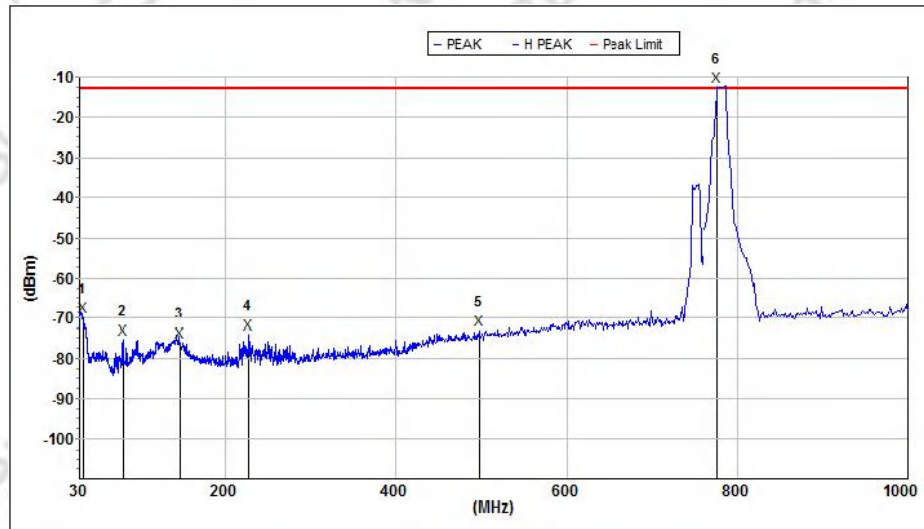
Band13 QAM16 BW=5MHz Channel=23255 RB Size=25
Position=#0 NVNT


Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0 NVNT

Radiated Test Data

For 30 MHz ~ 1 GHz

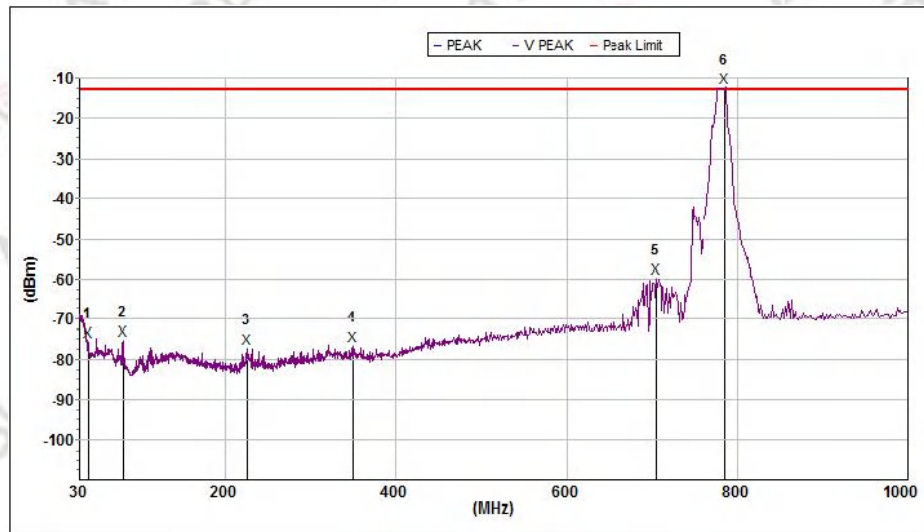
Mode:QPSK / Middle Channel / Horizontal



Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak								
1	33.858	-69.6	-13.0	56.6	-12.1	31.8	1.1	H
2	79.940	-75.2	-13.0	62.2	-16.0	32.1	1.3	H
3	148.181	-75.9	-13.0	62.9	-10.8	31.3	1.5	H
4	228.090	-73.7	-13.0	60.7	-13.3	31.9	1.8	H
5	497.676	-72.8	-13.0	59.8	-5.6	31.5	2.5	H
6	776.878	-12.4	-13.0	-0.6	-0.7	32.0	3.2	H

Note:Point 6 serves as the primary frequency signal.

Mode:QPSK / Middle Channel / Vertical

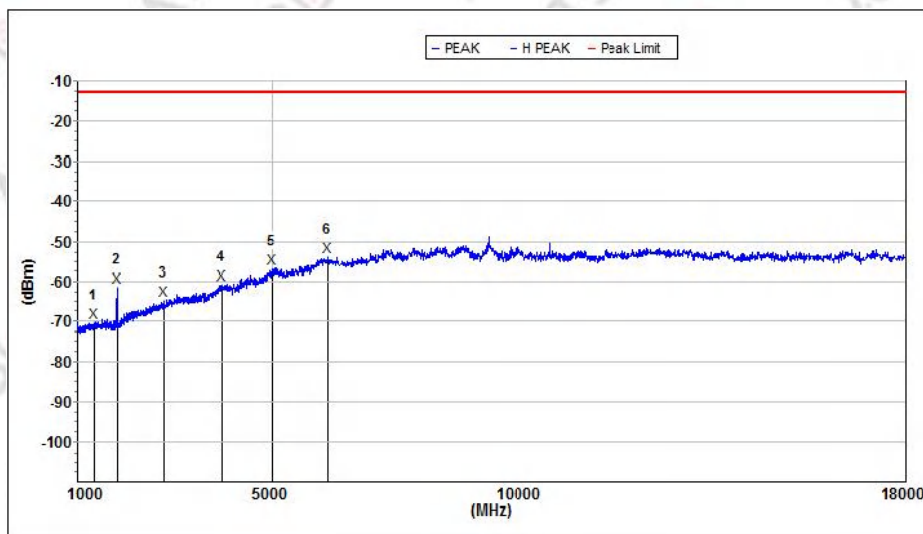


Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak								
1	40.135	-75.3	-13.0	62.3	-11.7	31.8	1.1	V
2	79.940	-75.1	-13.0	62.1	-16.1	32.1	1.2	V
3	227.292	-77.2	-13.0	64.2	-13.4	31.9	1.8	V
4	349.863	-76.5	-13.0	63.5	-10.3	32.7	2.2	V
5	705.462	-59.8	-13.0	46.8	-2.1	31.9	3.0	V
6	785.093	-12.3	-13.0	-0.7	-0.6	32.0	3.2	V

Note:Point 6 serves as the primary frequency signal.

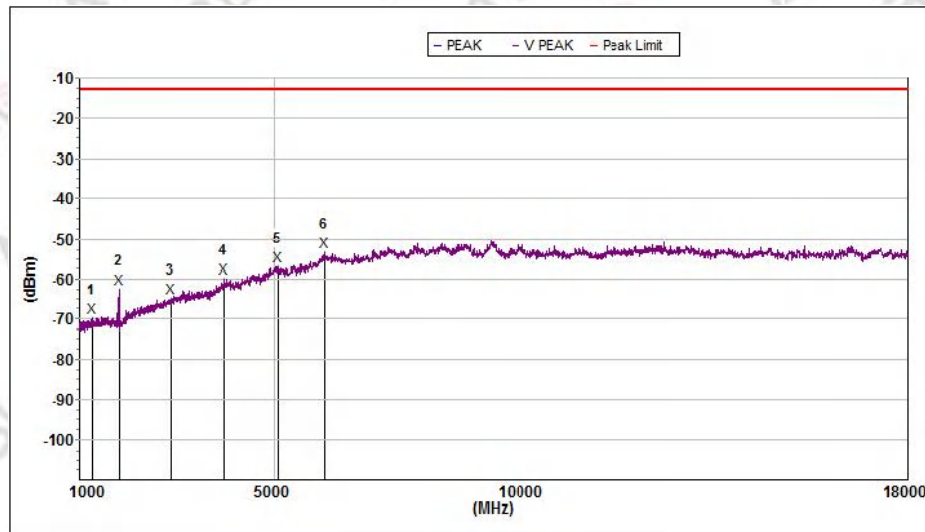
For 1 GHz ~ 18 GHz

Mode:QPSK / Middle Channel / Horizontal



Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak								
1	1350.727	-70.3	-13.0	57.3	-23.8	53.5	4.2	H
2	1799.781	-61.4	-13.0	48.4	-23.7	53.7	4.9	H
3	2785.763	-64.6	-13.0	51.6	-19.3	54.1	6.2	H
4	3961.931	-60.5	-13.0	47.5	-14.5	53.2	7.9	H
5	5004.015	-56.6	-13.0	43.6	-10.6	52.4	8.7	H
6	6120.491	-53.9	-13.0	40.9	-7.1	51.5	10.0	H

Mode:QPSK / Middle Channel / Vertical



Mk.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak								
1	1248.364	-69.7	-13.0	56.7	-23.8	53.6	4.1	V
2	1799.781	-62.2	-13.0	49.2	-23.7	53.7	4.9	V
3	2873.861	-64.6	-13.0	51.6	-18.9	54.1	6.3	V
4	3950.383	-59.7	-13.0	46.7	-14.6	53.3	7.9	V
5	5067.710	-56.7	-13.0	43.7	-10.5	52.4	8.8	V
6	6002.543	-53.2	-13.0	40.2	-7.6	51.5	9.8	V

*****END OF THE APPENDIX*****