



Appendix B

E-UTRA BAND 12

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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
Band12	5MHz	QPSK	23035	1RB#0	23.52	20.67	36.98	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.32	20.47	36.98	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.21	20.36	36.98	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.40	19.55	36.98	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.21	19.36	36.98	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.19	19.34	36.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.26	19.41	36.98	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.41	20.56	36.98	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.04	20.19	36.98	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.17	20.32	36.98	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.10	19.25	36.98	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.95	19.10	36.98	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.99	19.14	36.98	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.98	19.13	36.98	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.25	20.40	36.98	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.33	20.48	36.98	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.79	20.94	36.98	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.12	19.27	36.98	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.26	19.41	36.98	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.62	19.77	36.98	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.43	19.58	36.98	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.68	19.83	36.98	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.40	19.55	36.98	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.20	19.35	36.98	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.24	18.39	36.98	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.52	19.67	36.98	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.99	19.14	36.98	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.22	19.37	36.98	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.28	18.43	36.98	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.25	19.40	36.98	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.51	19.66	36.98	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.90	20.05	36.98	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.47	18.62	36.98	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.17	20.32	36.98	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.96	20.11	36.98	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.70	19.85	36.98	PASS

Band12	10MHz	QPSK	23060	25RB#0	22.26	19.41	36.98	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.18	19.33	36.98	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.07	19.22	36.98	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.25	19.40	36.98	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.03	20.18	36.98	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.06	20.21	36.98	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.82	19.97	36.98	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.14	19.29	36.98	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.98	19.13	36.98	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.09	19.24	36.98	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.84	18.99	36.98	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.87	20.02	36.98	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.12	20.27	36.98	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.39	20.54	36.98	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.99	19.14	36.98	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.10	19.25	36.98	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.34	19.49	36.98	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.01	19.16	36.98	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.27	19.42	36.98	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.13	19.28	36.98	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.78	18.93	36.98	PASS
Band12	10MHz	16QAM	23060	27RB#0	21.88	19.03	36.98	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.11	19.26	36.98	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.07	19.22	36.98	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.91	19.06	36.98	PASS
Band12	10MHz	16QAM	23095	27RB#0	21.94	19.09	36.98	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.07	19.22	36.98	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.16	19.31	36.98	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.43	19.58	36.98	PASS
Band12	10MHz	16QAM	23130	27RB#0	21.88	19.03	36.98	PASS

Remark:

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

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

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

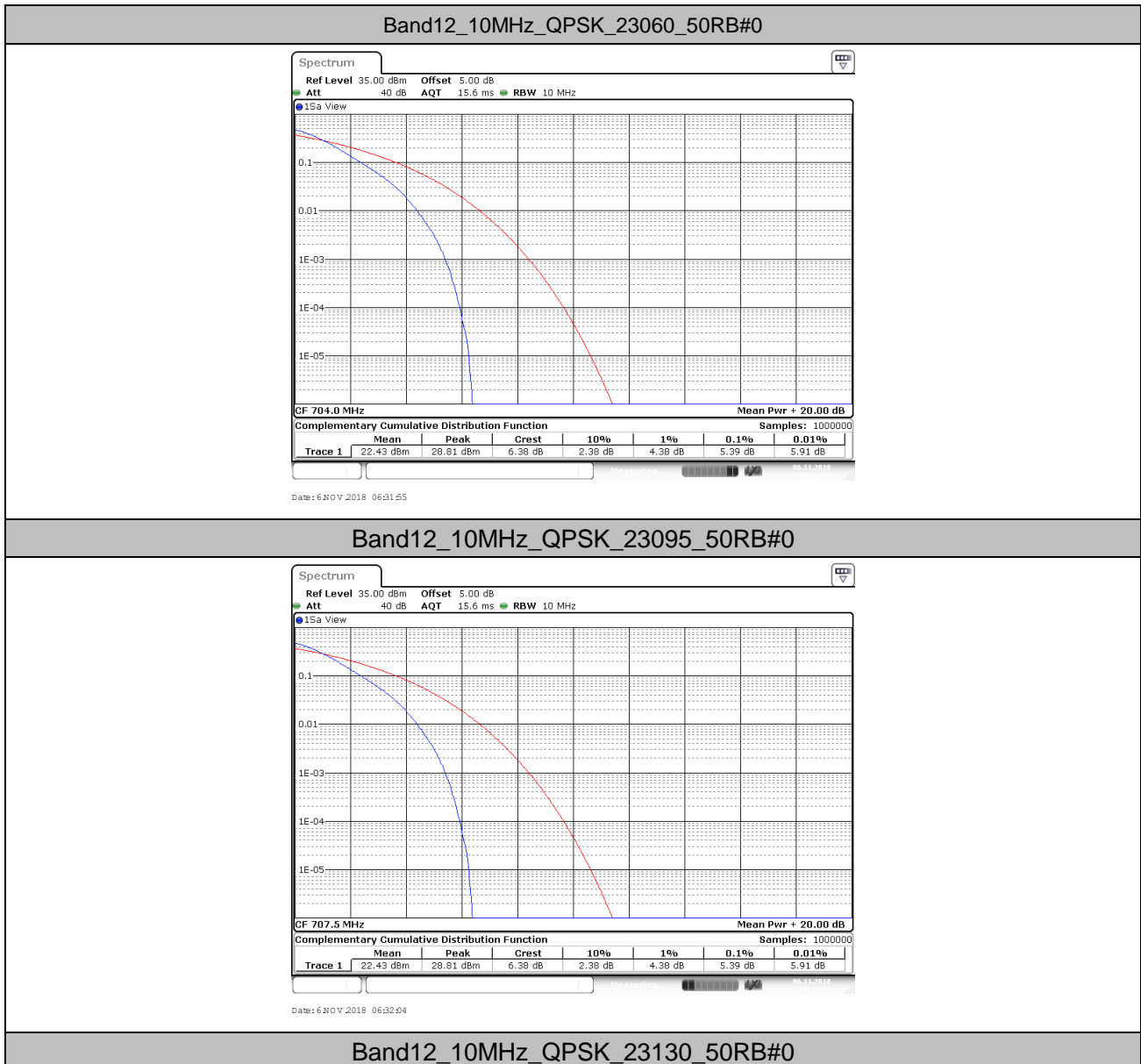
b: SGP=Signal Generator Level

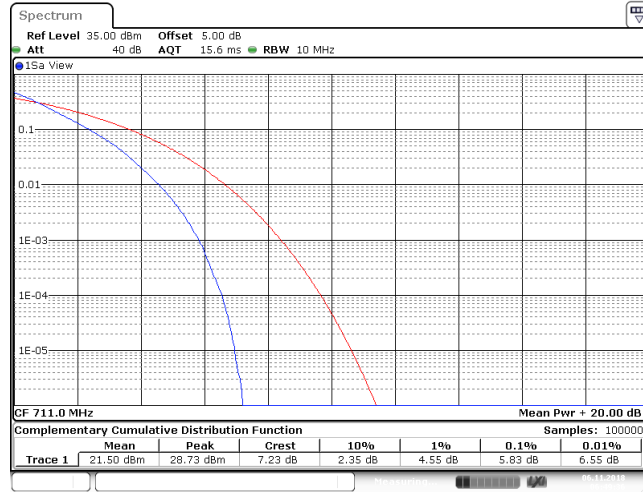
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.39	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.39	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.83	13	PASS
Band12	10MHz	16QAM	23060	27RB#0	6.70	13	PASS
Band12	10MHz	16QAM	23095	27RB#0	6.35	13	PASS
Band12	10MHz	16QAM	23130	27RB#0	6.29	13	PASS

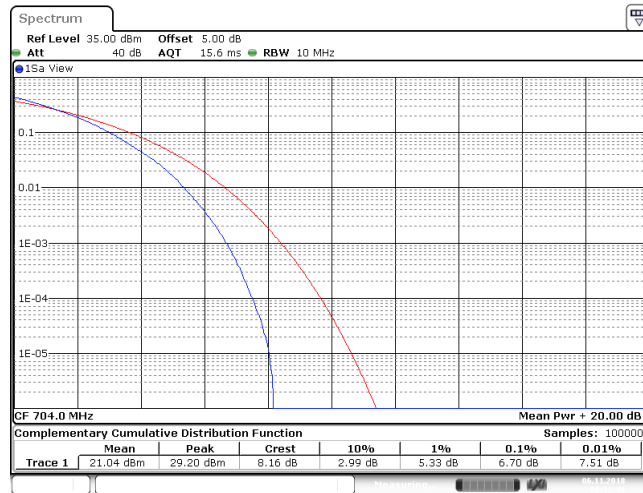
2.2. Test Plots





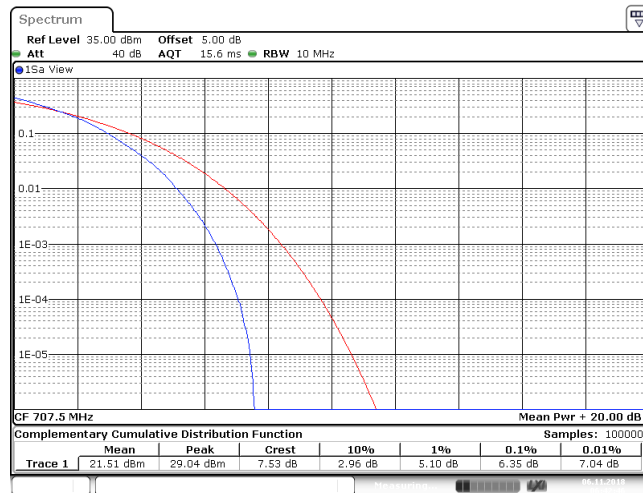
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Band12_10MHz_16QAM_23060_27RB#0



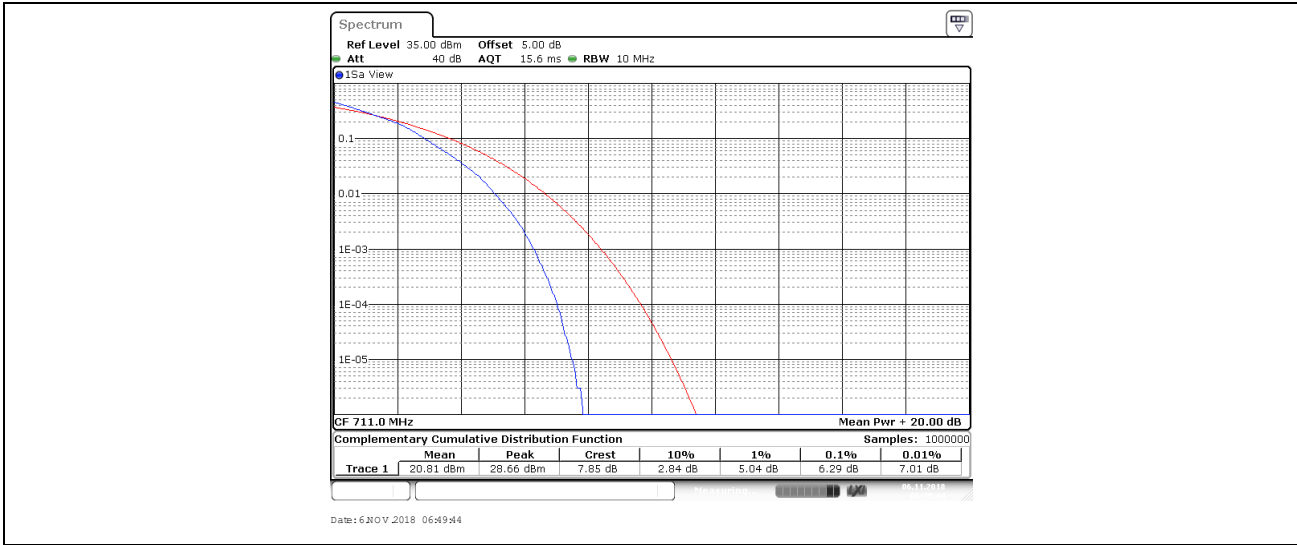
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Band12_10MHz_16QAM_23095_27RB#0



Date: 6 NOV 2018 06:42:46

Band12_10MHz_16QAM_23130_27RB#0

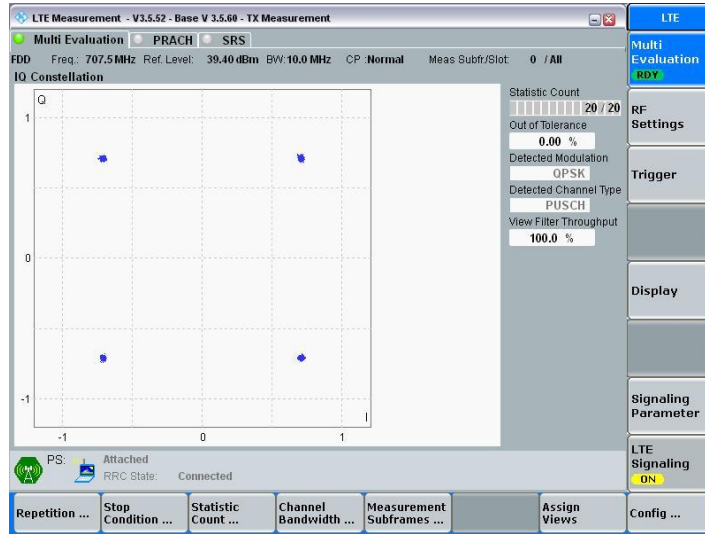


3. Modulation Characteristics

3.1. Test BAND = LTE BAND12

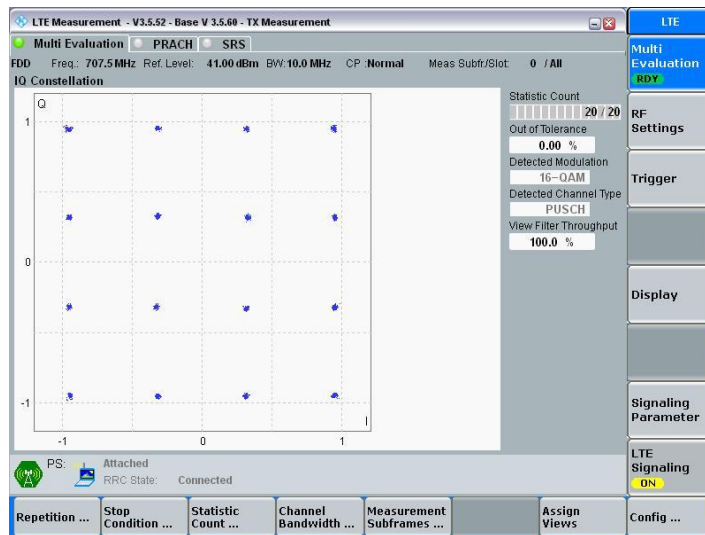
3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH

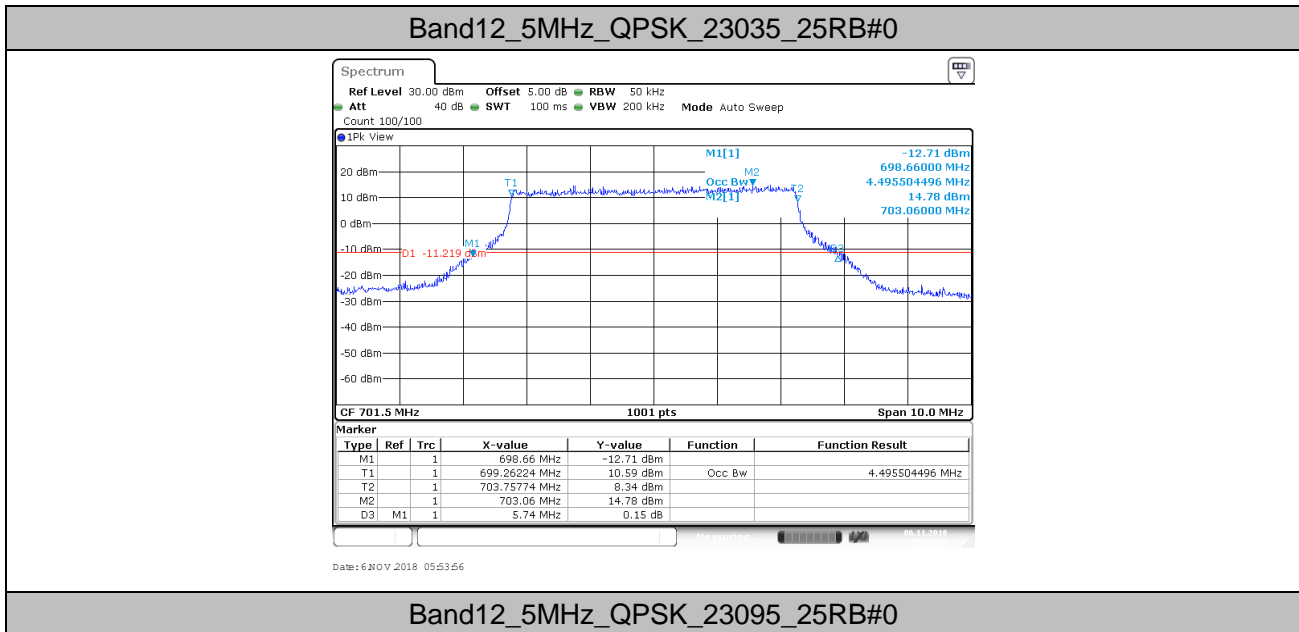


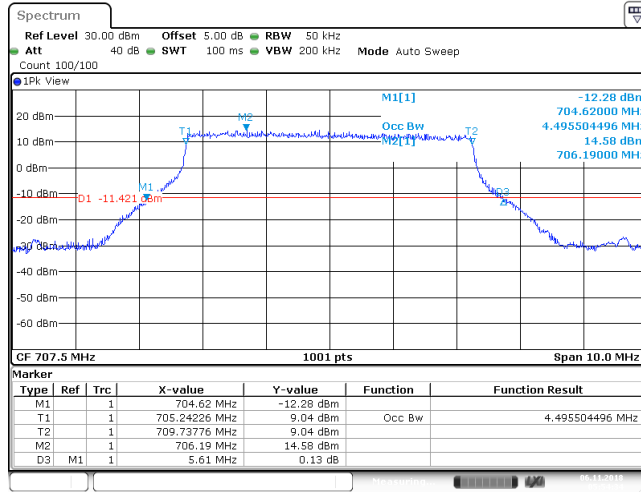
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	5MHz	QPSK	23035	25RB#0	4.496	5.740	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.496	5.610	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.515	5.780	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	5.680	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	5.550	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	5.500	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.931	10.520	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.951	10.260	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.971	10.720	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.975	7.260	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.935	6.820	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.935	6.720	PASS

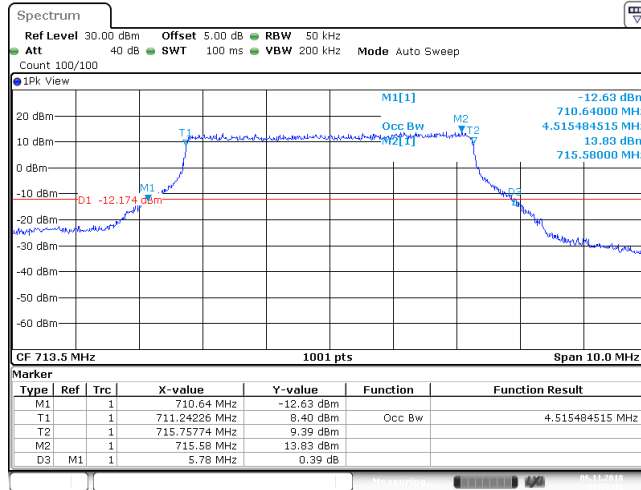
4.2. Test Plots





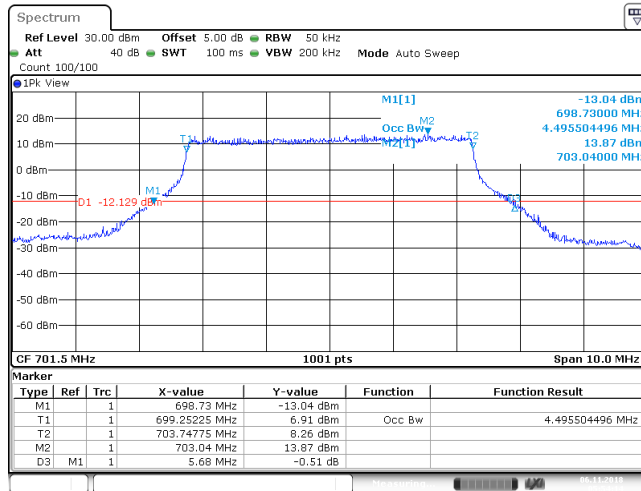
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Band12_5MHz_QPSK_23155_25RB#0



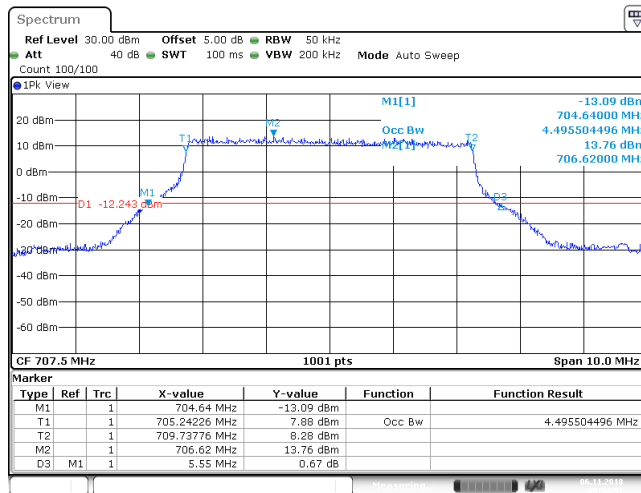
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Band12_5MHz_16QAM_23035_25RB#0



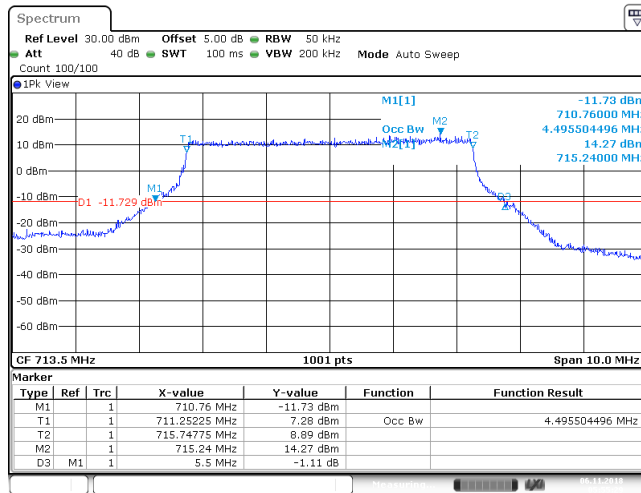
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Band12_5MHz_16QAM_23095_25RB#0



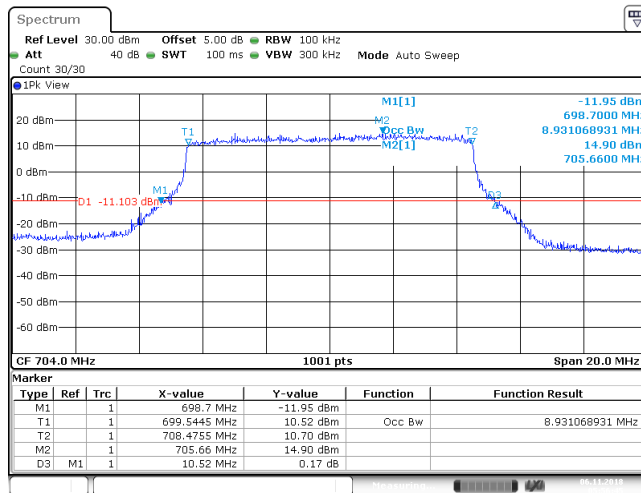
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Band12_5MHz_16QAM_23155_25RB#0



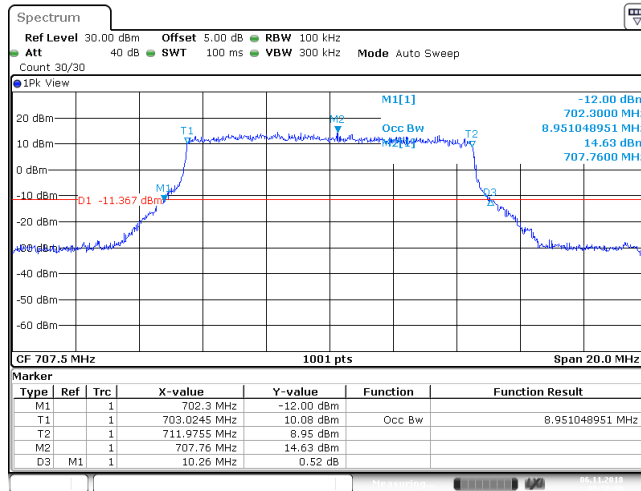
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Band12_10MHz_QPSK_23060_50RB#0



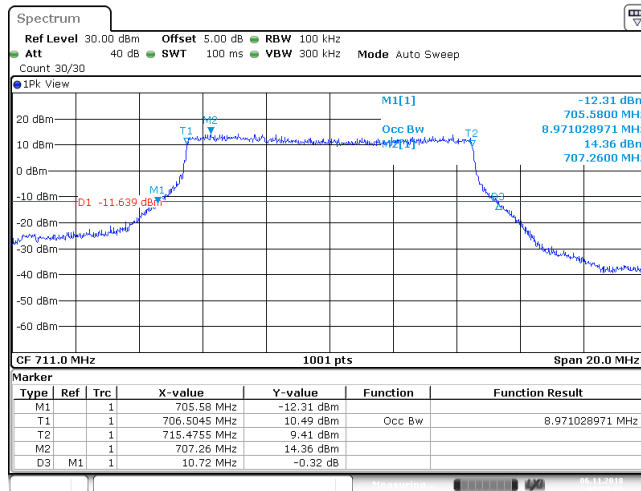
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Band12_10MHz_QPSK_23095_50RB#0



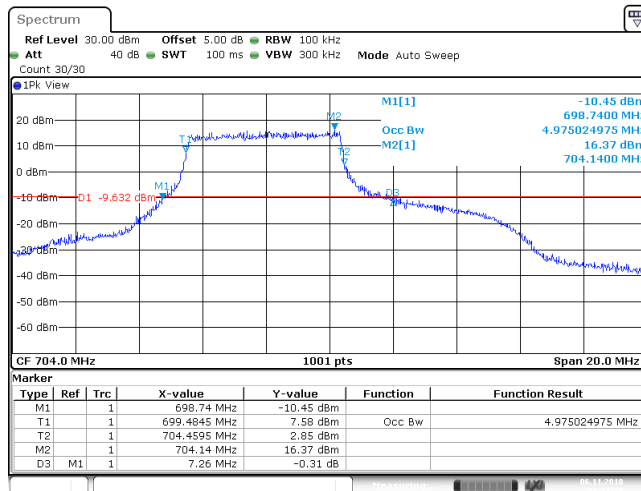
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Band12_10MHz_QPSK_23130_50RB#0



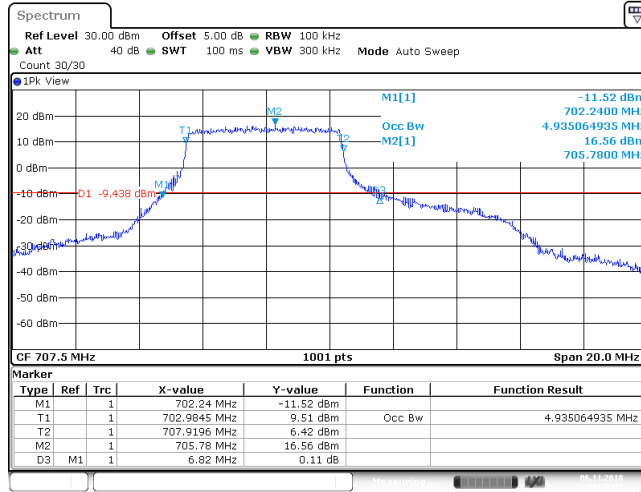
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Band12_10MHz_16QAM_23060_27RB#0



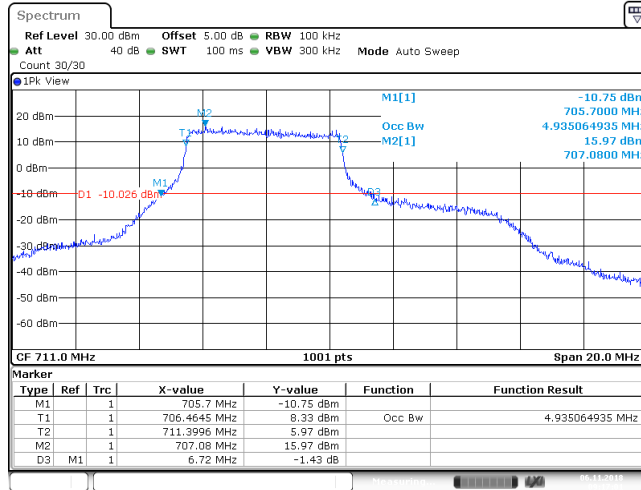
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Band12_10MHz_16QAM_23095_27RB#0



Date: 6 NOV 2018 09:16:36

Band12_10MHz_16QAM_23130_27RB#0

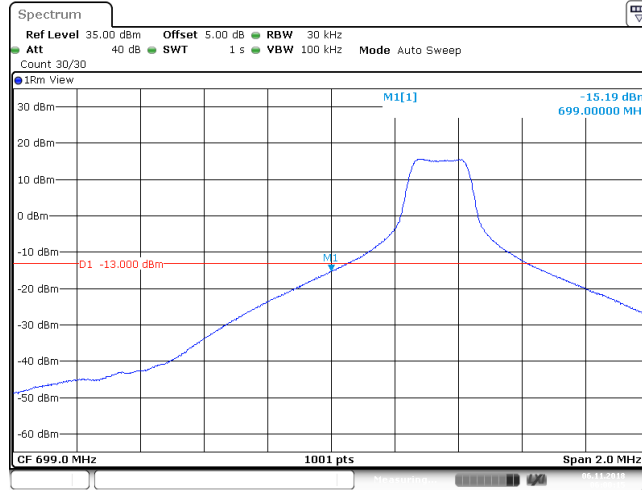


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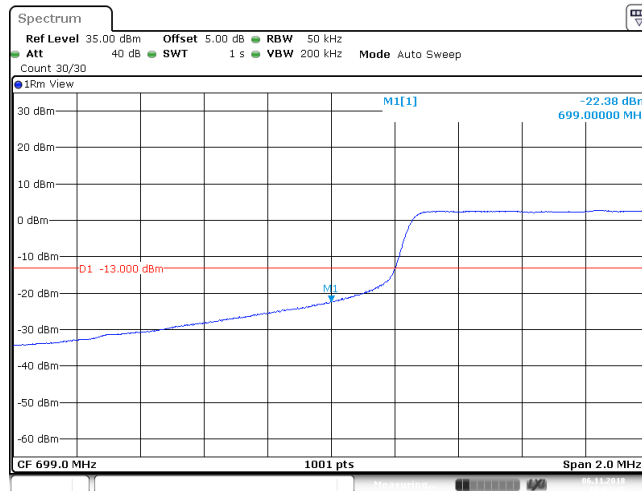
5. Band Edge Compliance

5.1. Test Plots

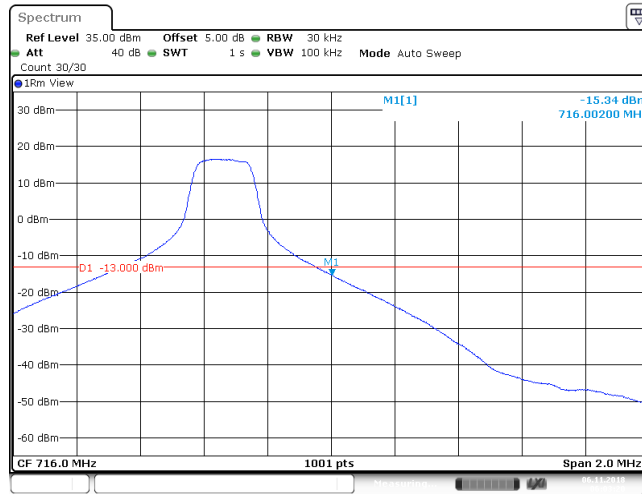
Band12_5MHz_QPSK_23035_1RB#0



Band12_5MHz_QPSK_23035_25RB#0

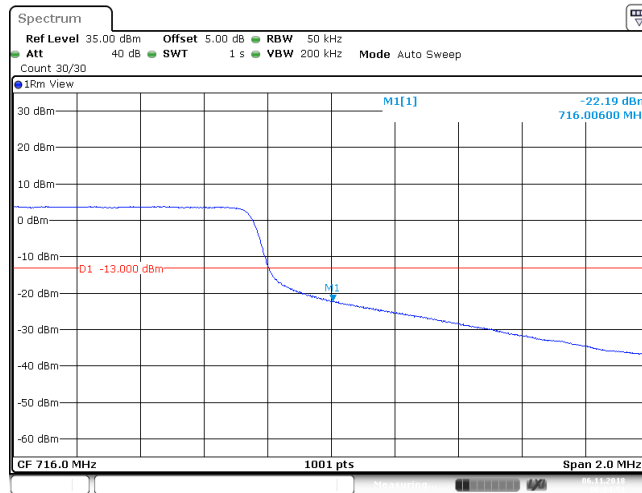


Band12_5MHz_QPSK_23155_1RB#24



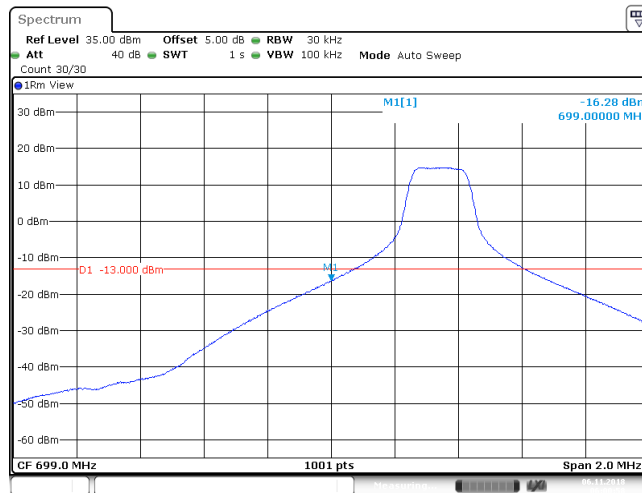
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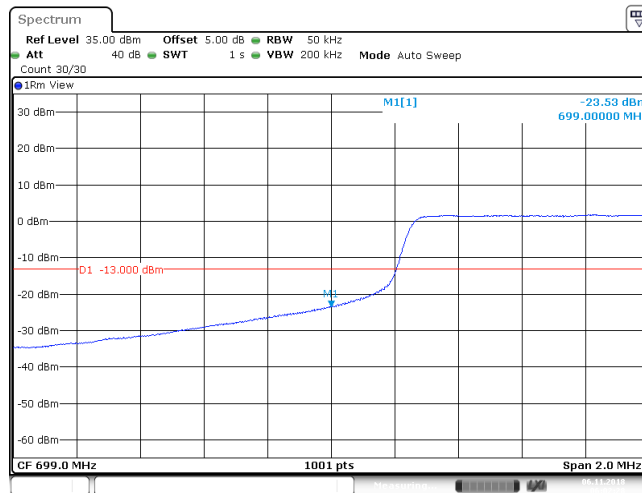
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Band12_5MHz_16QAM_23035_1RB#0



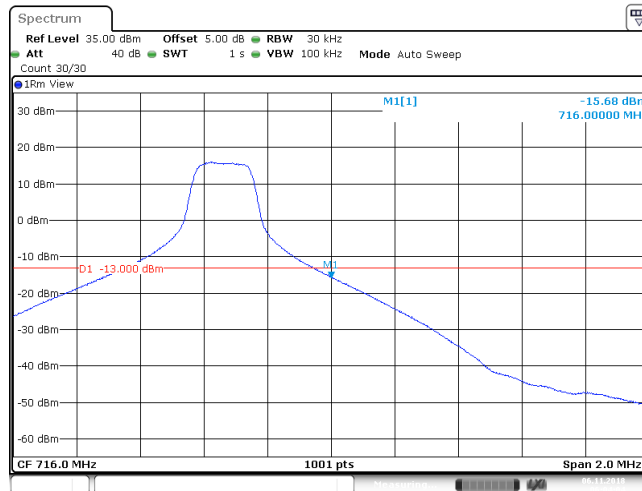
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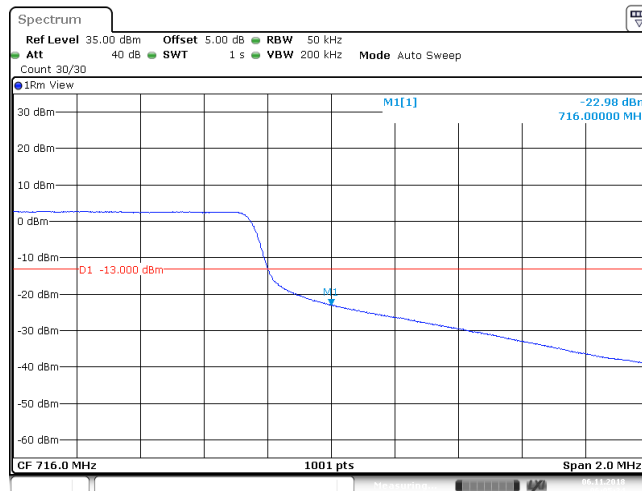
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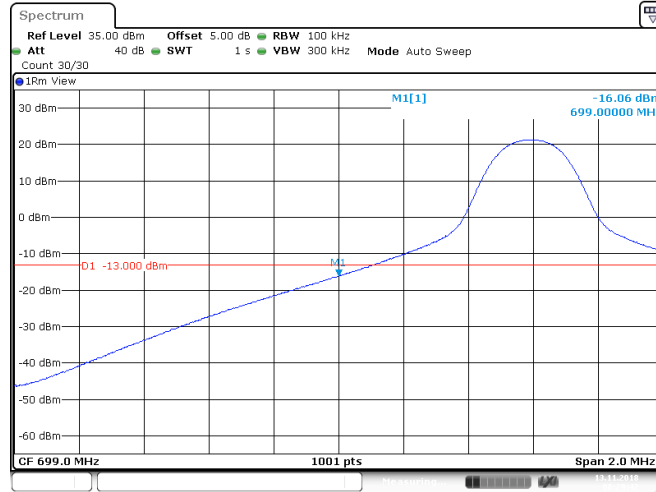
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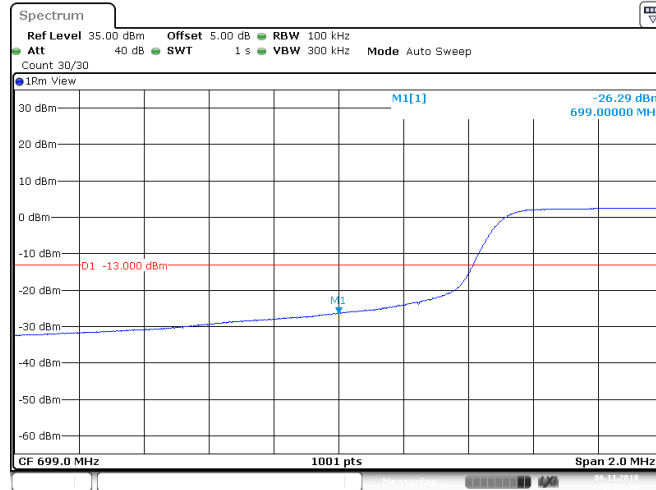
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Band12_10MHz_QPSK_23060_1RB#0



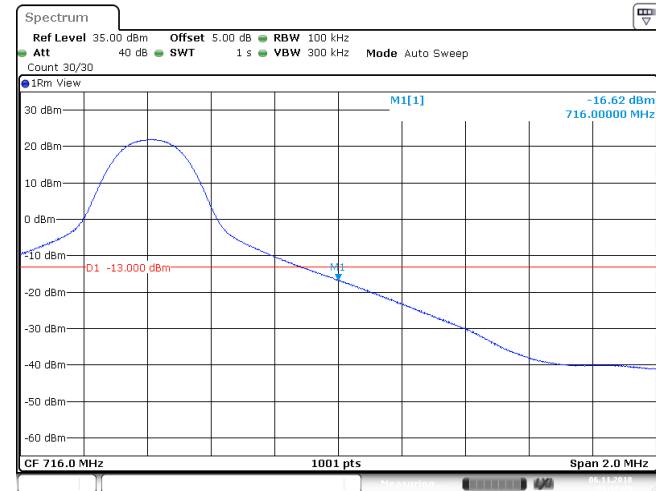
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Band12_10MHz_QPSK_23060_50RB#0



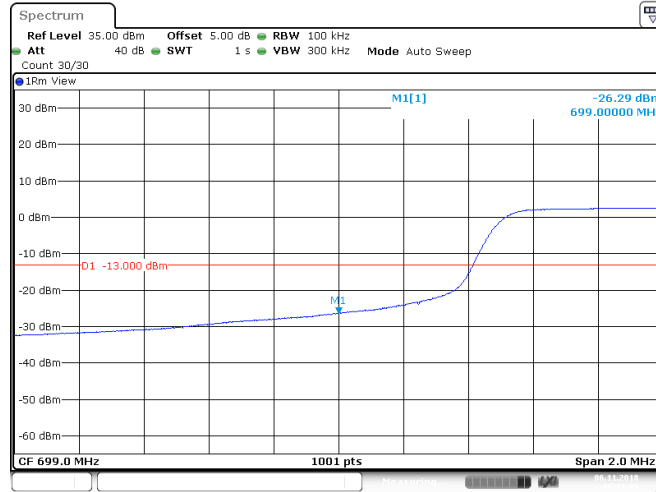
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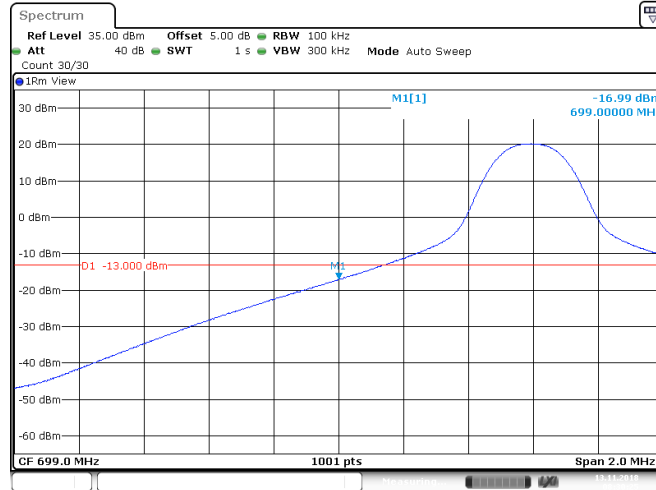
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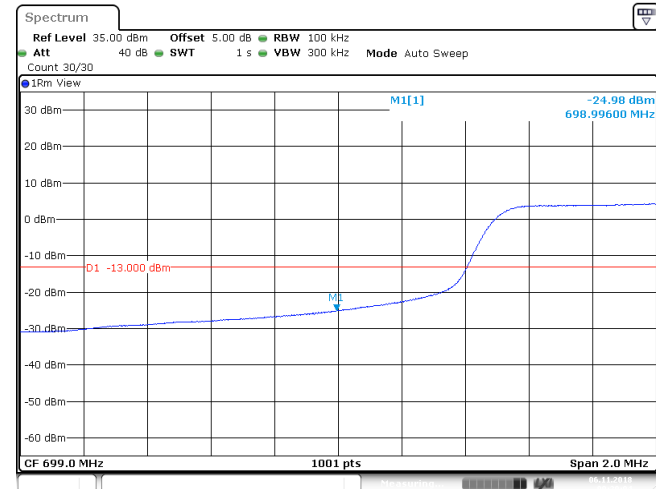
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Band12_10MHz_16QAM_23060_1RB#0



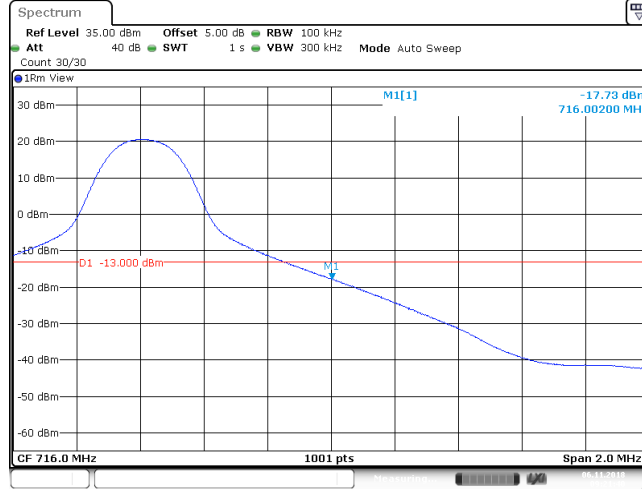
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Band12_10MHz_16QAM_23060_27RB#0



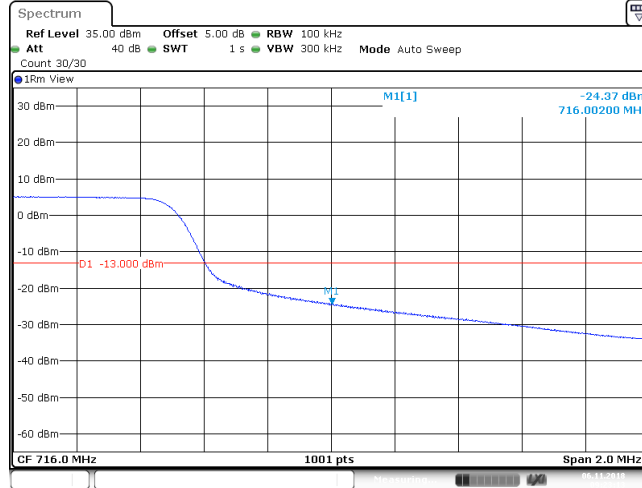
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Band12_10MHz_16QAM_23130_1RB#49



Date: 6 NOV 2018 09:21:40

Band12_10MHz_16QAM_23130_27RB#23



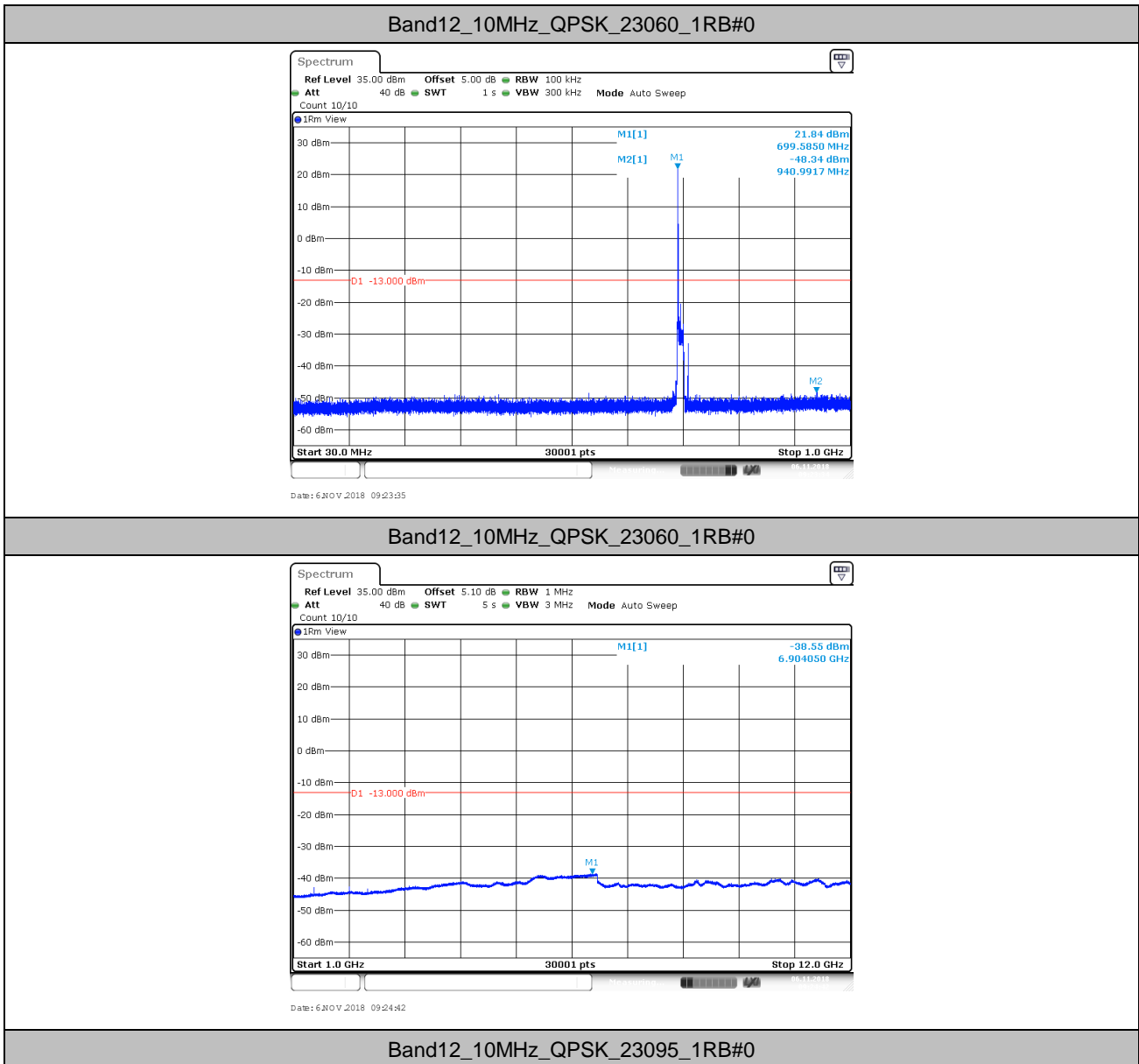
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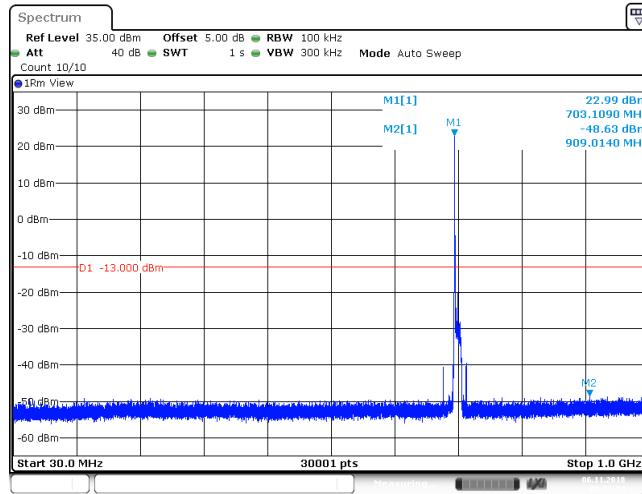
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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.

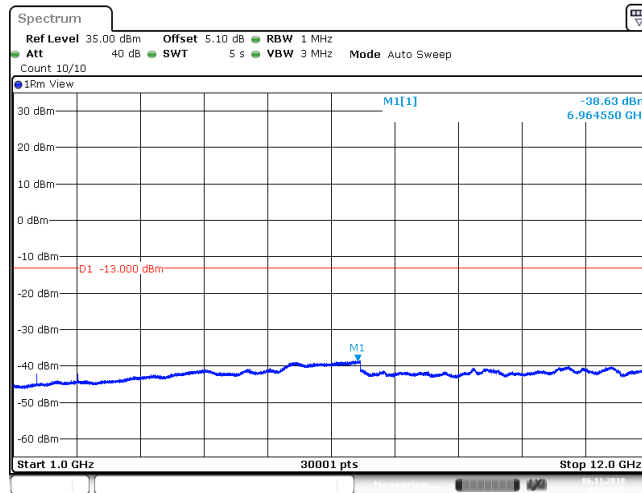
6.1. Test Plots





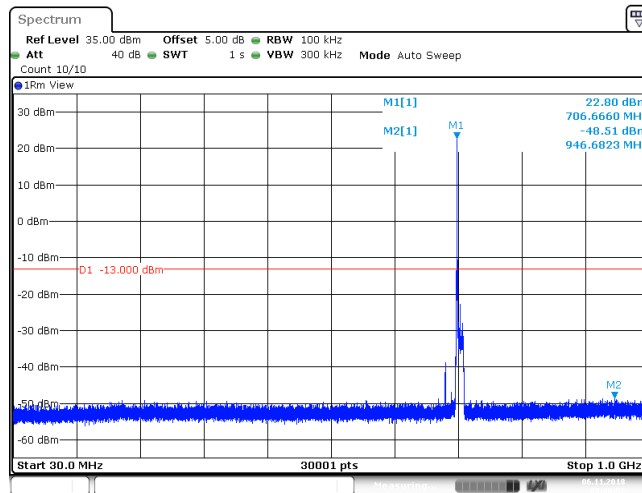
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Band12_10MHz_QPSK_23095_1RB#0



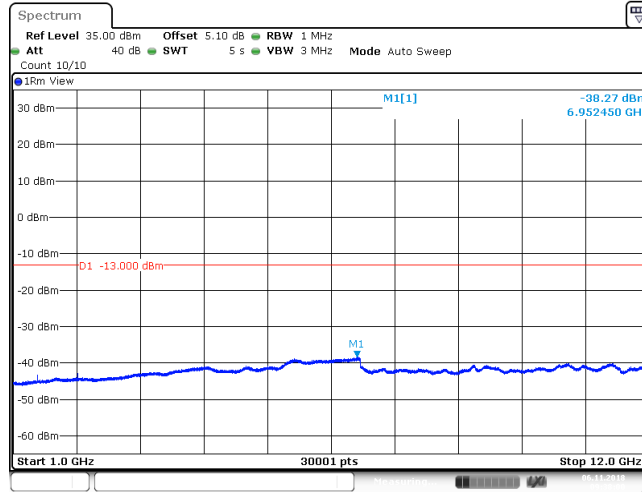
Date: 6 NOV 2018 09:32:42

Band12_10MHz_QPSK_23130_1RB#0



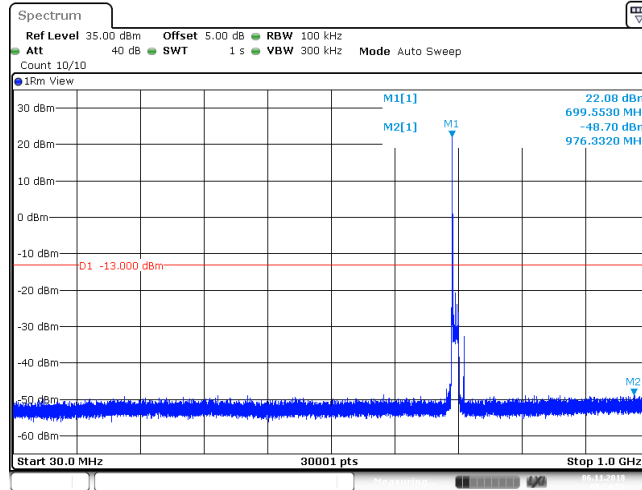
Date: 6 NOV 2018 09:36:53

Band12_10MHz_QPSK_23130_1RB#0



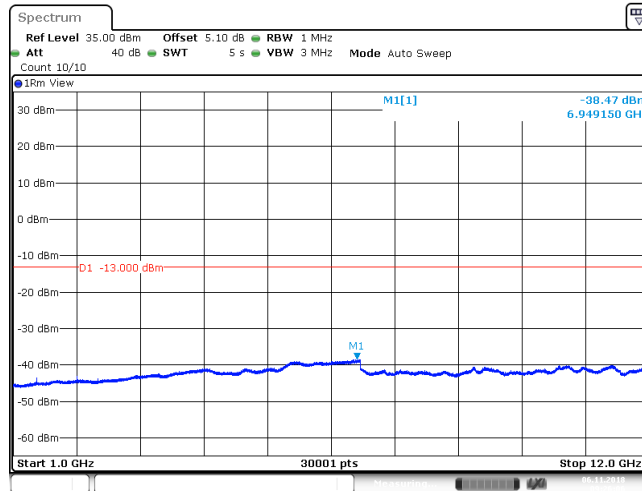
Date: 6 NOV 2018 09:38:00

Band12_10MHz_16QAM_23060_1RB#0



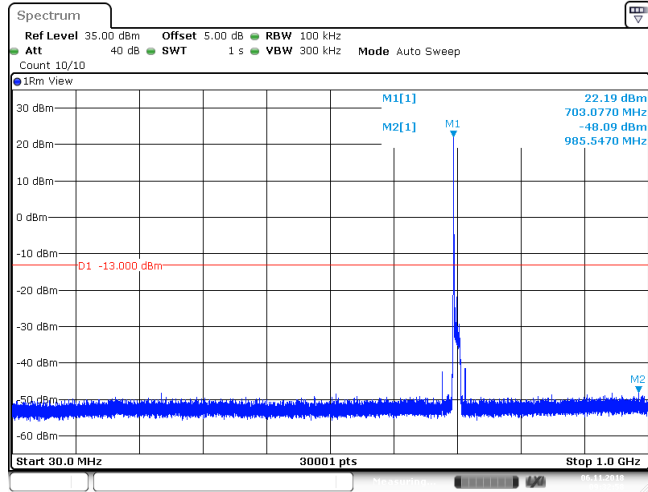
Date: 6 NOV 2018 09:24:59

Band12_10MHz_16QAM_23060_1RB#0



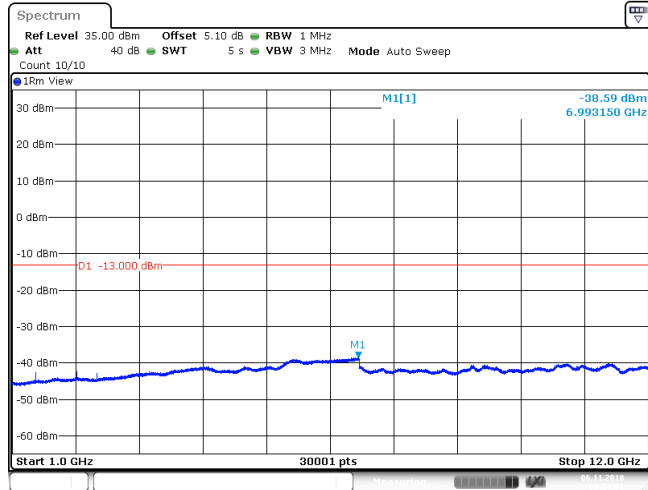
Date: 6 NOV 2018 09:26:07

Band12_10MHz_16QAM_23095_1RB#0



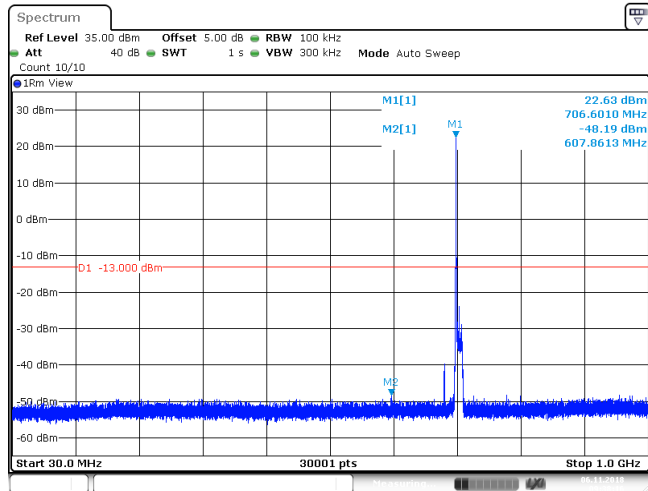
Date: 6 NOV 2018 09:32:59

Band12_10MHz_16QAM_23095_1RB#0



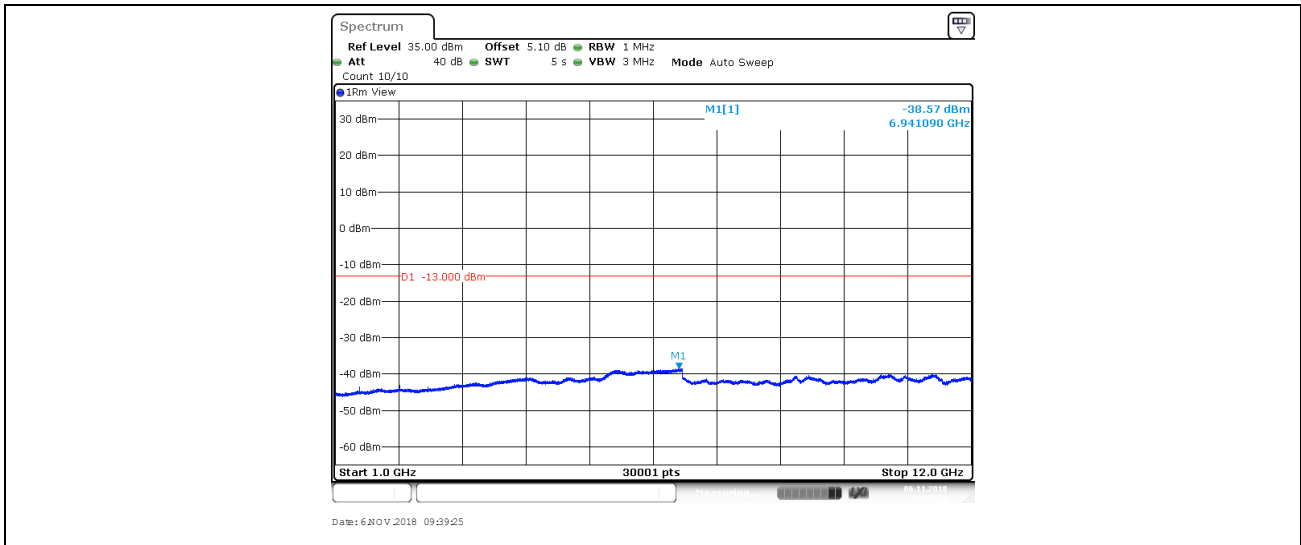
Date: 6 NOV 2018 09:34:06

Band12_10MHz_16QAM_23130_1RB#0



Date: 6 NOV 2018 09:38:17

Band12_10MHz_16QAM_23130_1RB#0



7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 12

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
65.233333	-81.29	-13.00	68.29	Vertical
124.966667	-85.45	-13.00	72.45	Vertical
1399.000000	-54.35	-13.00	41.35	Vertical
2099.000000	-56.99	-13.00	43.99	Vertical
3730.762500	-66.93	-13.00	53.93	Vertical
6720.600000	-65.23	-13.00	52.23	Vertical
65.233333	-81.29	-13.00	68.29	Horizontal
124.966667	-85.45	-13.00	72.45	Horizontal
1399.000000	-54.35	-13.00	41.35	Horizontal
2099.000000	-56.99	-13.00	43.99	Horizontal
3730.762500	-66.93	-13.00	53.93	Horizontal
6720.600000	-65.23	-13.00	52.23	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.480000	-82.67	-13.00	69.67	Vertical
104.246667	-84.07	-13.00	71.07	Vertical
1406.000000	-49.34	-13.00	36.34	Vertical
2109.500000	-54.67	-13.00	41.67	Vertical
3515.287500	-66.49	-13.00	53.49	Vertical
6058.575000	-65.23	-13.00	52.23	Vertical
62.993333	-77.61	-13.00	64.61	Horizontal
267.673333	-88.33	-13.00	75.33	Horizontal
1406.000000	-51.21	-13.00	38.21	Horizontal
2109.500000	-57.58	-13.00	44.58	Horizontal
3730.762500	-66.01	-13.00	53.01	Horizontal
7733.625000	-64.22	-13.00	51.22	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.993333	-77.61	-13.00	64.61	Vertical
267.673333	-88.33	-13.00	75.33	Vertical
1406.000000	-51.21	-13.00	38.21	Vertical
2109.500000	-57.58	-13.00	44.58	Vertical
3730.762500	-66.01	-13.00	53.01	Vertical
7733.625000	-64.22	-13.00	51.22	Vertical
63.226667	-77.88	-13.00	64.88	Horizontal
321.106667	-77.06	-13.00	64.06	Horizontal
1413.000000	-59.90	-13.00	46.90	Horizontal
2464.000000	-58.25	-13.00	45.25	Horizontal
3730.762500	-66.29	-13.00	53.29	Horizontal
6039.075000	-65.56	-13.00	52.56	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.

8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	10.54	0.000150	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	17.05	0.000242	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	18.33	0.000260	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-7.60	-0.000107	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.25	-0.000004	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-9.81	-0.000139	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	4.23	0.000060	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-20.12	-0.000283	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-6.27	-0.000088	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	VL	NT	-25.00	-0.000355	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	VN	NT	-1.79	-0.000025	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	VH	NT	3.85	0.000055	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	VL	NT	9.42	0.000133	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	VN	NT	9.47	0.000134	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	VH	NT	20.32	0.000287	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	VL	NT	15.94	0.000224	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	VN	NT	20.40	0.000287	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	VH	NT	15.91	0.000224	±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
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	18.38	0.000261	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-5.36	-0.000076	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-28.51	-0.000405	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	24.37	0.000346	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-0.29	-0.000004	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	5.57	0.000079	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	9.16	0.000130	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-11.35	-0.000161	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	17.78	0.000251	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-15.61	-0.000221	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	19.78	0.000280	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-10.65	-0.000151	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.64	-0.000009	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	5.83	0.000082	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-8.63	-0.000122	±2.5	PASS



Band12	10MHz	QPSK	23095	50RB#0	NV	50	-11.51	-0.000163	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	3.12	0.000044	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-4.04	-0.000057	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	2.73	0.000038	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	22.27	0.000313	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	24.33	0.000342	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	25.68	0.000361	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	26.81	0.000377	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-13.69	-0.000193	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	-30	13.40	0.000190	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	-20	20.23	0.000287	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	0	-14.95	-0.000212	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	10	-8.87	-0.000126	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	20	17.11	0.000243	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	30	10.88	0.000155	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	40	6.37	0.000090	±2.5	PASS
Band12	10MHz	16QAM	23060	27RB#0	NV	50	-11.73	-0.000167	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	-30	9.25	0.000131	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	-20	17.20	0.000243	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	0	0.58	0.000008	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	10	0.49	0.000007	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	20	16.74	0.000237	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	30	7.16	0.000101	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	40	-17.19	-0.000243	±2.5	PASS
Band12	10MHz	16QAM	23095	27RB#0	NV	50	3.37	0.000048	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	-30	-26.11	-0.000367	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	-20	16.90	0.000238	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	0	-8.86	-0.000125	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	10	-0.99	-0.000014	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	20	-7.97	-0.000112	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	30	18.48	0.000260	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	40	21.26	0.000299	±2.5	PASS
Band12	10MHz	16QAM	23130	27RB#0	NV	50	-17.40	-0.000245	±2.5	PASS

The End