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	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.98	23.93	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.00	23.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.97	23.92	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.74	23.69	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.88	23.83	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.82	23.77	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.09	23.04	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.91	23.86	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	**24.03**	23.98	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.98	23.93	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.81	23.76	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.88	23.83	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.87	23.82	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.13	23.08	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.88	23.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.01	23.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.98	23.93	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.70	23.65	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.78	23.73	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.80	23.75	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.06	23.01	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.95	22.9	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.18	22.13	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.19	22.14	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.58	22.53	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.88	22.83	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.82	22.77	34.77	PASS

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Band12	1.4MHz	16QAM	23017	6RB#0	21.83	21.78	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.40	22.35	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.79	22.74	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.74	22.69	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.82	22.77	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.79	22.74	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.96	22.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.95	21.9	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.01	21.96	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.24	22.19	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.18	22.13	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.77	22.72	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.84	22.79	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.89	22.84	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.88	21.83	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.08	24.03	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.15	24.1	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.83	23.78	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.12	23.07	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.98	22.93	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.96	22.91	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.03	22.98	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.89	23.84	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	**24.17**	24.12	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.10	24.05	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.13	23.08	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.18	23.13	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.17	23.12	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.10	23.05	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.84	23.79	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.03	23.98	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.86	23.81	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.07	23.02	34.77	PASS

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Band12	3MHz	QPSK	23165	8RB#0	23.09	23.04	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.10	23.05	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.09	23.04	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.16	22.11	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.61	22.56	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.29	22.24	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.88	21.83	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.83	21.78	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.80	21.75	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.90	21.85	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.84	22.79	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.26	23.21	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.02	21.97	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.18	22.13	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.34	22.29	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.20	22.15	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.23	22.18	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.05	23	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.22	23.17	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.09	23.04	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.91	21.86	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.24	22.19	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.42	22.37	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.12	22.07	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.76	23.71	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.85	23.8	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.90	23.85	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.05	23	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.96	22.91	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.00	22.95	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.01	22.96	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.86	23.81	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	**24.25**	24.2	34.77	PASS

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Band12	5MHz	QPSK	23095	1RB#24	24.05	24	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.20	23.15	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.20	23.15	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.21	23.16	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.12	23.07	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.70	23.65	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.93	23.88	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.86	23.81	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.04	22.99	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.13	23.08	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.02	22.97	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.05	23	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.06	22.01	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.98	22.93	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.61	22.56	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.91	21.86	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.94	21.89	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.89	21.84	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.00	21.95	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.97	22.92	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.15	23.1	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.23	22.18	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.05	22	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.07	22.02	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.08	22.03	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.17	22.12	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.62	22.57	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.07	23.02	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.95	22.9	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.00	21.95	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.01	21.96	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.09	22.04	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.13	22.08	34.77	PASS

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Band12	10MHz	QPSK	23060	1RB#0	23.77	23.72	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.17	24.12	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.99	23.94	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.02	22.97	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.27	23.22	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.23	23.18	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.15	23.1	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.71	23.66	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	**24.19**	24.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.91	23.86	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.24	23.19	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.17	23.12	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.22	23.17	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.09	23.04	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.82	23.77	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.04	23.99	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.80	23.75	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.23	23.18	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.23	23.18	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.21	23.16	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.26	23.21	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.02	22.97	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.12	23.07	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.96	22.91	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	22.00	21.95	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	22.32	22.27	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.27	22.22	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.24	22.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.59	22.54	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.72	23.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.88	22.83	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.13	22.08	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.14	22.09	34.77	PASS

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Band12	10MHz	16QAM	23095	25RB#25	22.17	22.12	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.11	22.06	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.81	22.76	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.82	22.77	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.92	22.87	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.15	22.1	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.13	22.08	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.22	22.17	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.20	22.15	34.77	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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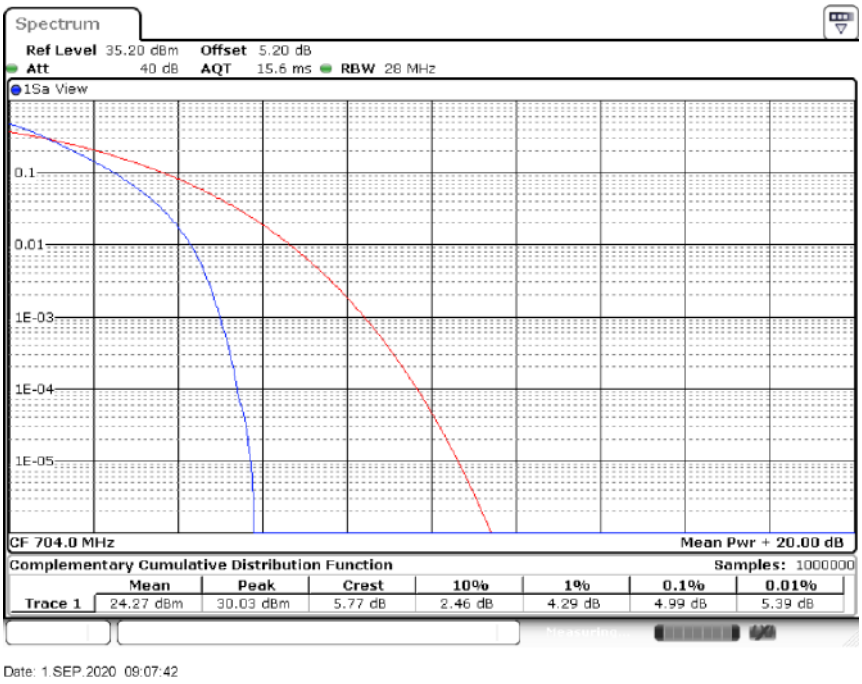
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.99	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.13	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.91	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.91	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.00	13	PASS

2.2. Test Plots

Band12-10MHz-QPSK-23060-50RB#0



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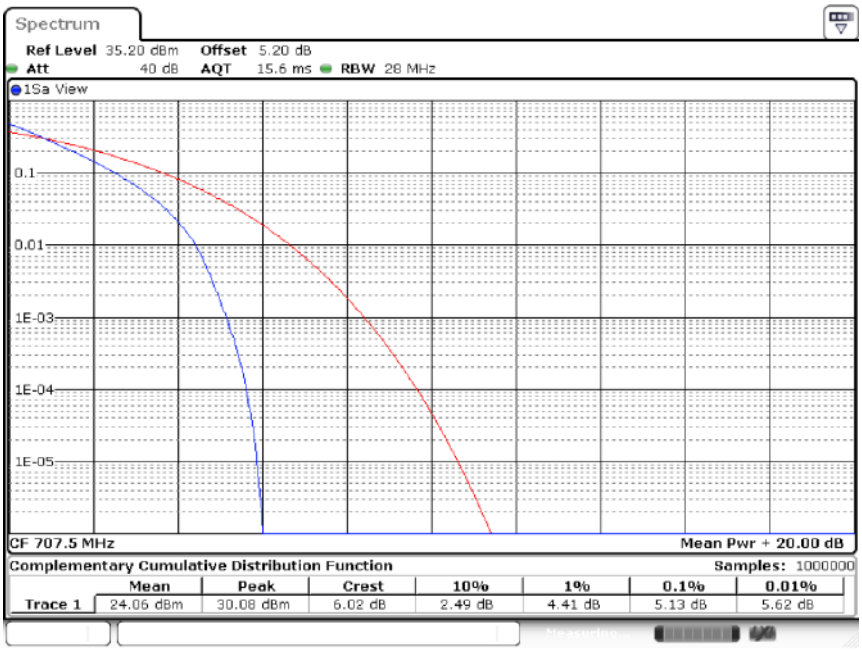
Band12-10MHz-QPSK-23095-50RB#0



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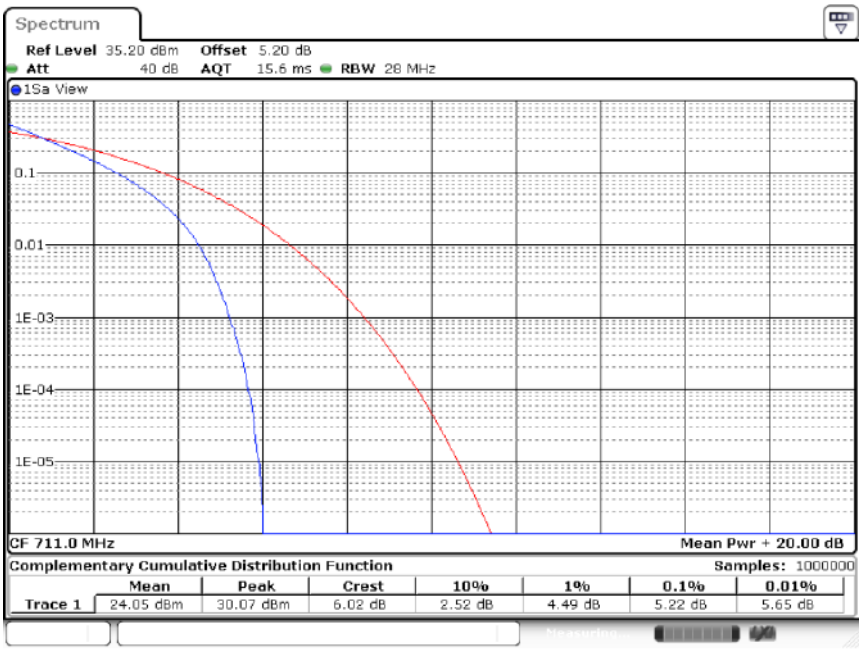
Band12-10MHz-QPSK-23130-50RB#0



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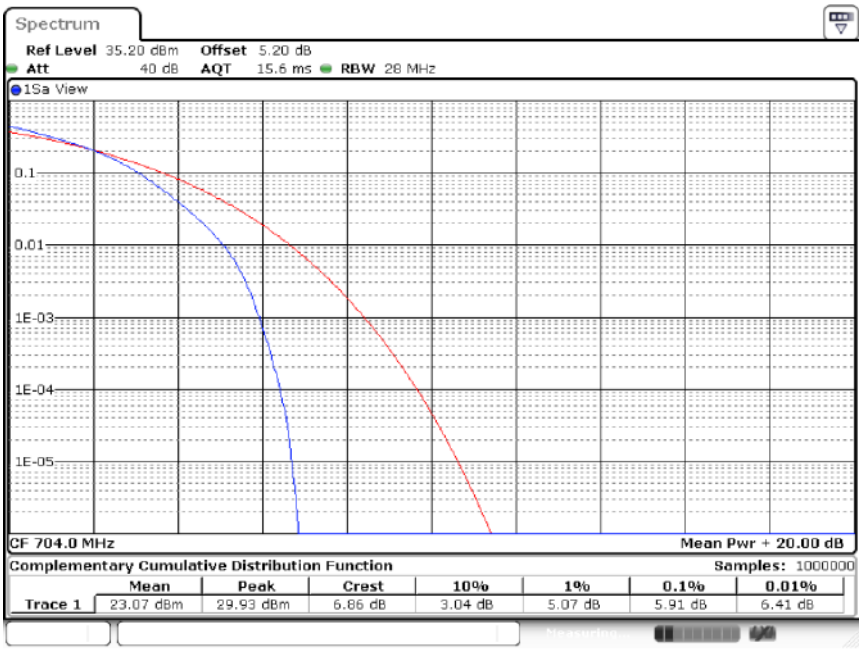
Band12-10MHz-16QAM-23060-50RB#0



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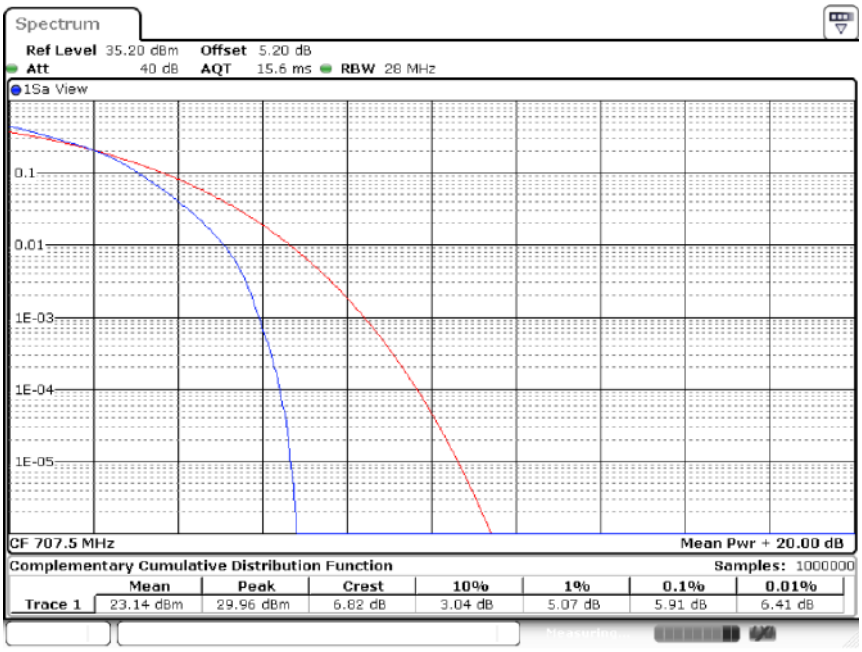
Band12-10MHz-16QAM-23095-50RB#0



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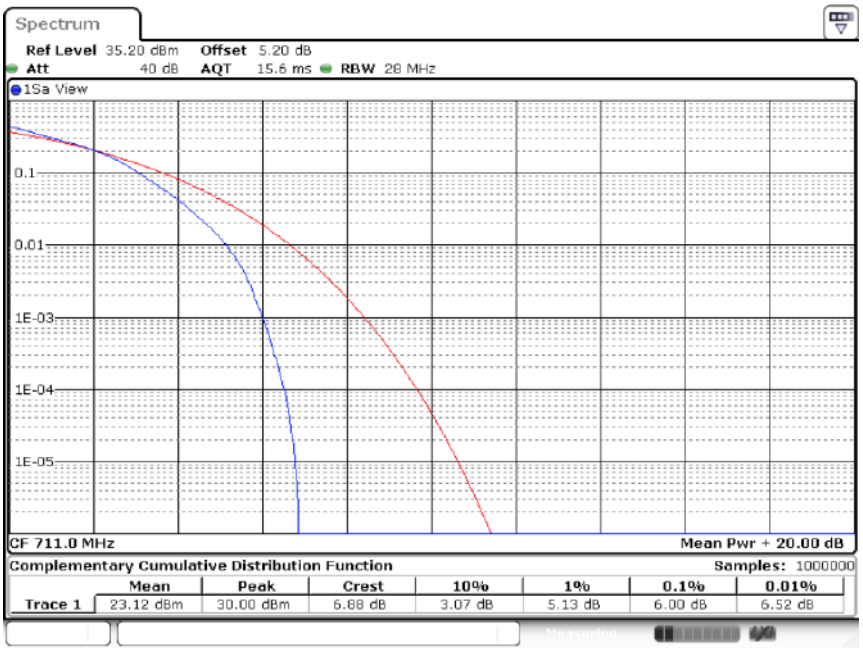
Band12-10MHz-16QAM-23130-50RB#0



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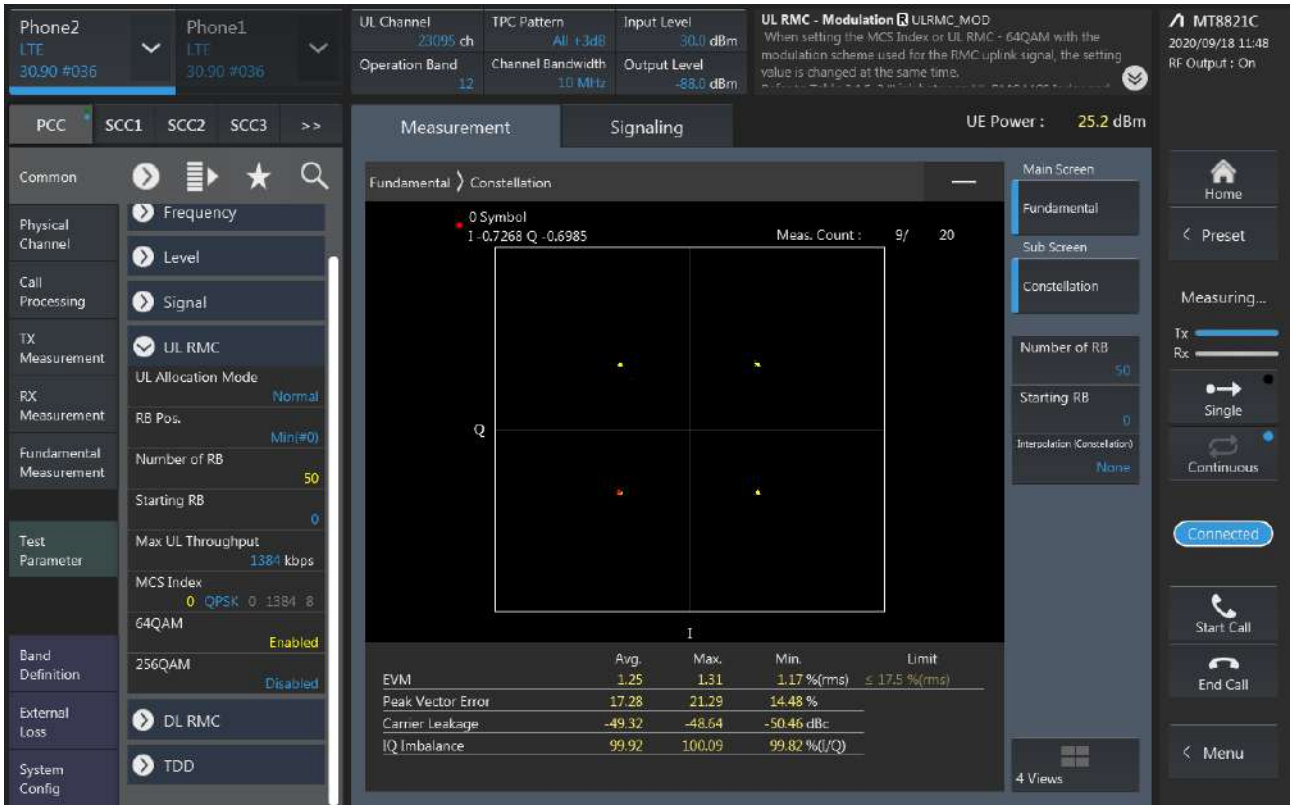
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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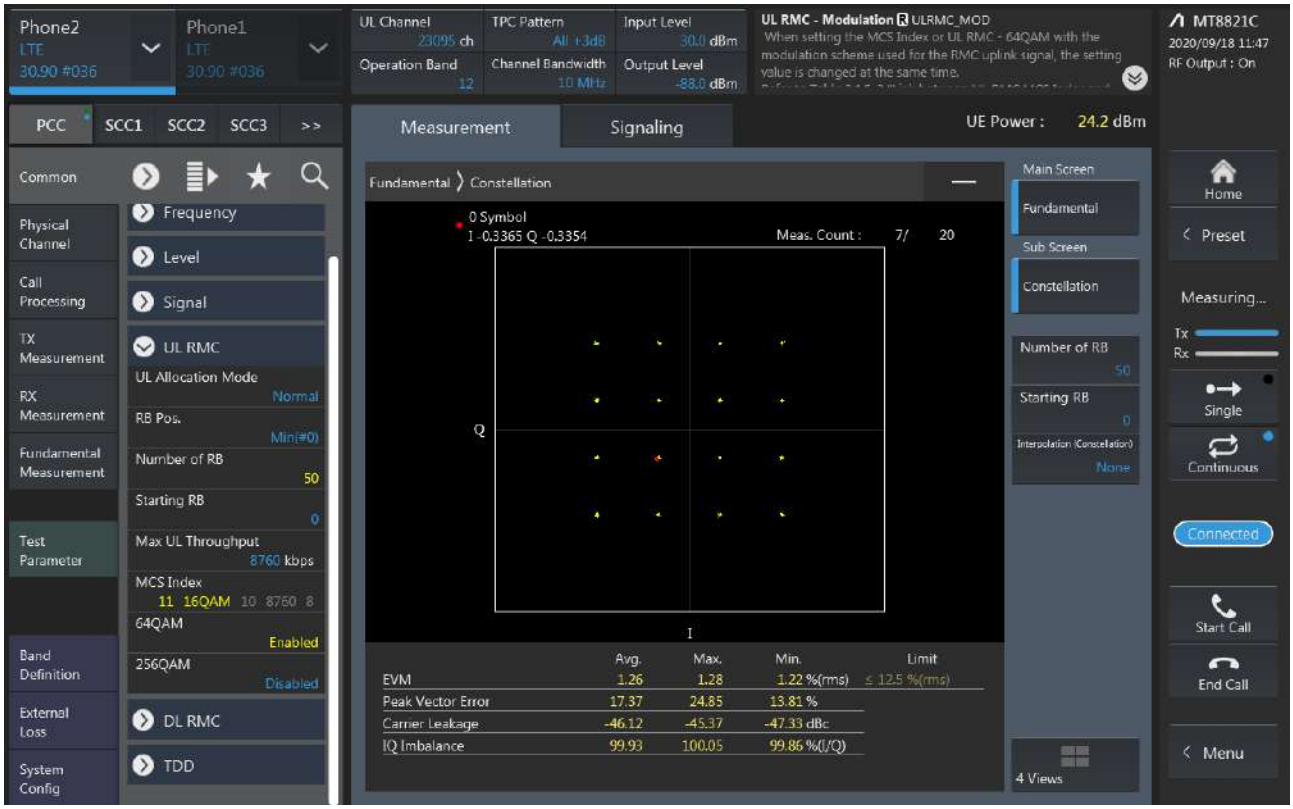
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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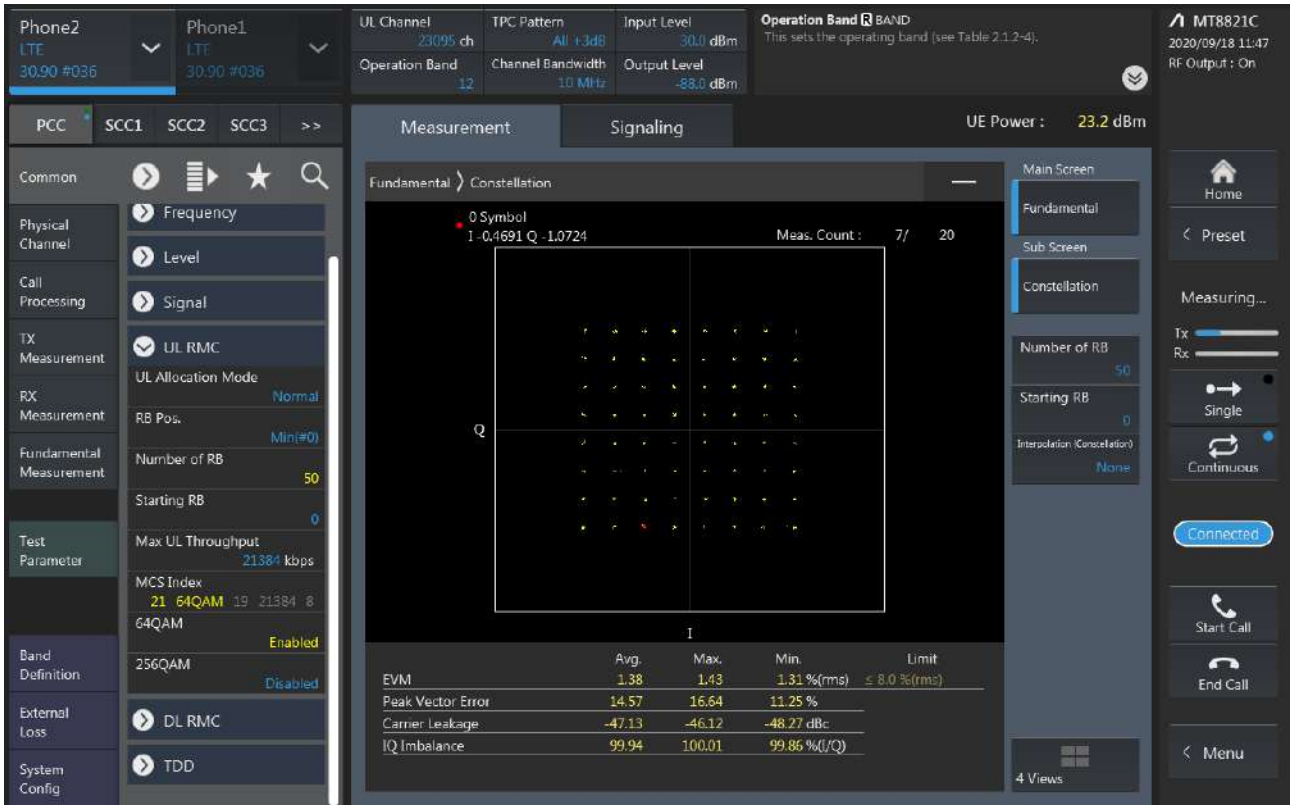
3.3. Test Mode = LTE /TM3 10MHz

3.3.1.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
Band12	1.4MHz	QPSK	23017	6RB#0	1.097	1.293	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.293	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.097	1.287	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.091	1.287	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.281	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.293	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	2.988	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	3.000	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	2.994	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.685	2.976	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.691	2.964	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.685	2.976	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.920	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.940	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	4.920	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.486	4.940	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.486	4.920	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.930	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.911	9.700	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.891	9.620	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.911	9.760	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.891	9.700	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.911	9.700	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.740	PASS

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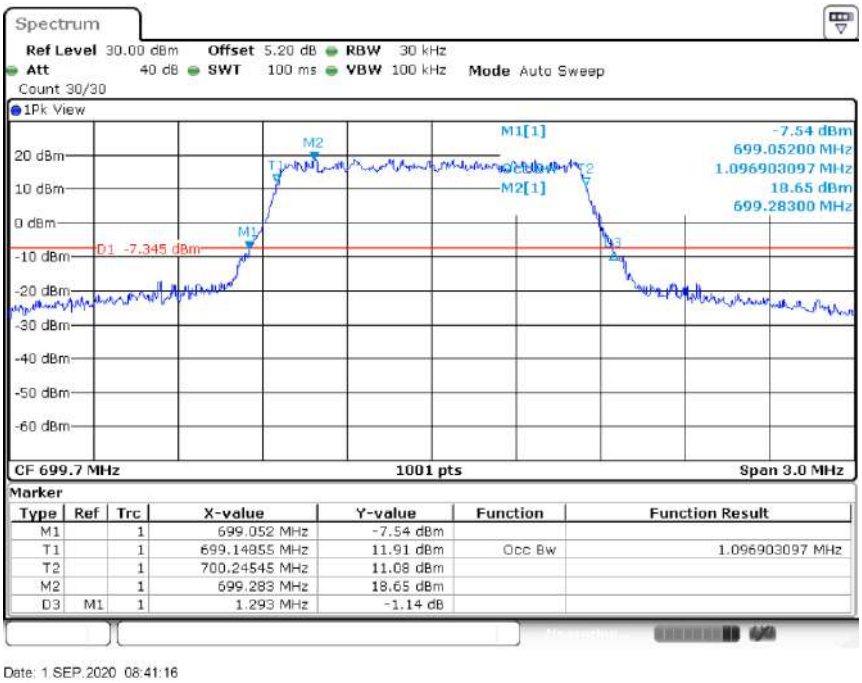
4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.097



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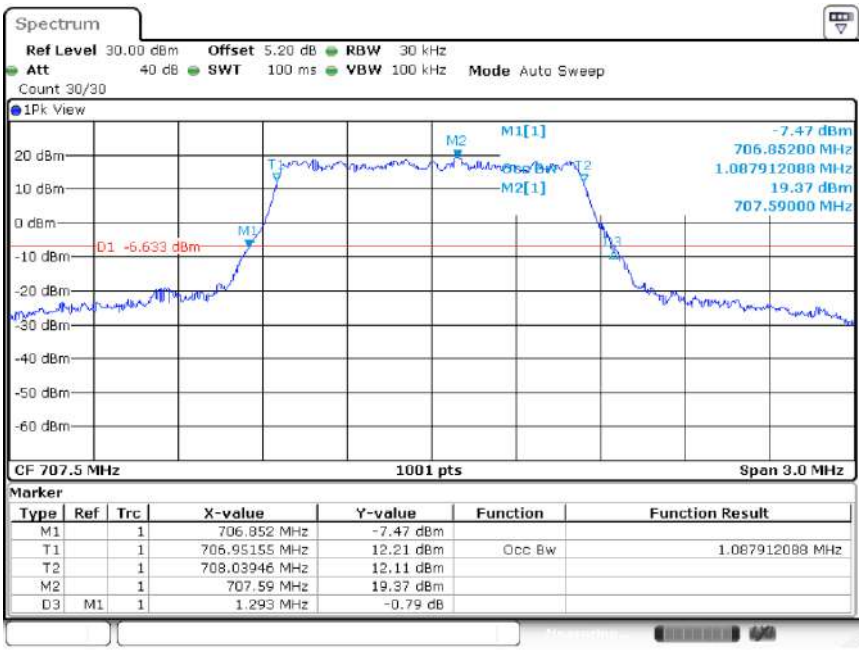

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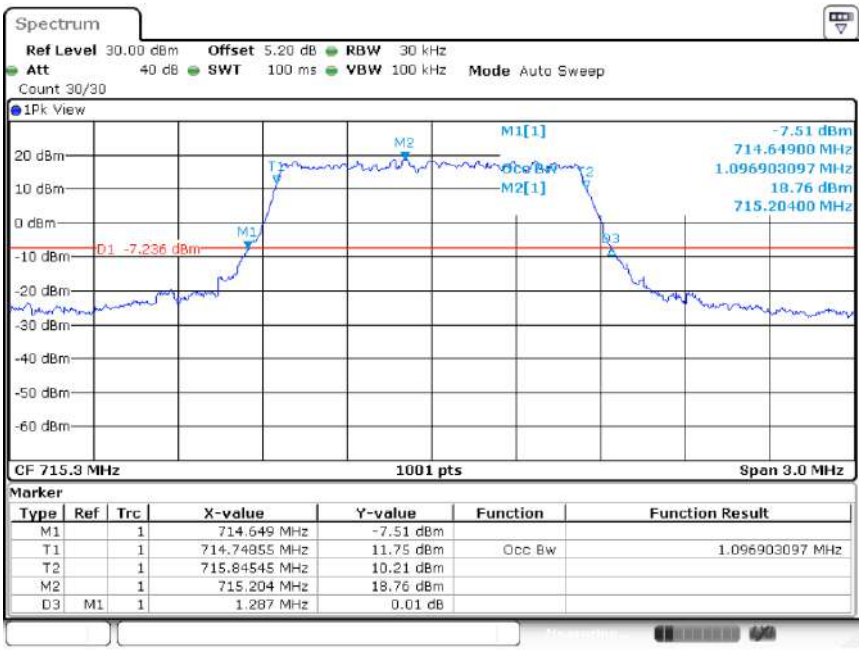
Band12-1.4MHz-QPSK-23173-6RB#0-1.097

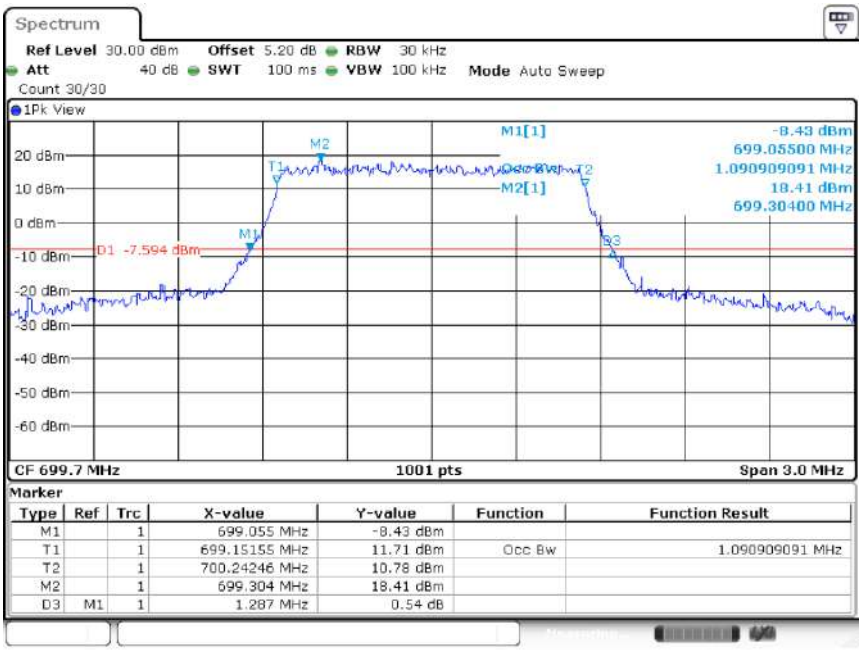


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.649 MHz	-7.51 dBm		
T1		1	714.74855 MHz	11.75 dBm	Occ Bw	1.096903097 MHz
T2		1	715.84545 MHz	10.21 dBm		
M2		1	715.204 MHz	18.76 dBm		
D3	M1	1	1.287 MHz	0.01 dB		

Date: 1 SEP.2020 08:42:07

Band12-1.4MHz-16QAM-23017-6RB#0-1.091



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.055 MHz	-8.43 dBm		
T1		1	699.15155 MHz	11.71 dBm	Occ Bw	1.090909091 MHz
T2		1	700.24246 MHz	10.78 dBm		
M2		1	699.304 MHz	18.41 dBm		
D3	M1	1	1.287 MHz	0.54 dB		

Date: 1 SEP.2020 08:41:29

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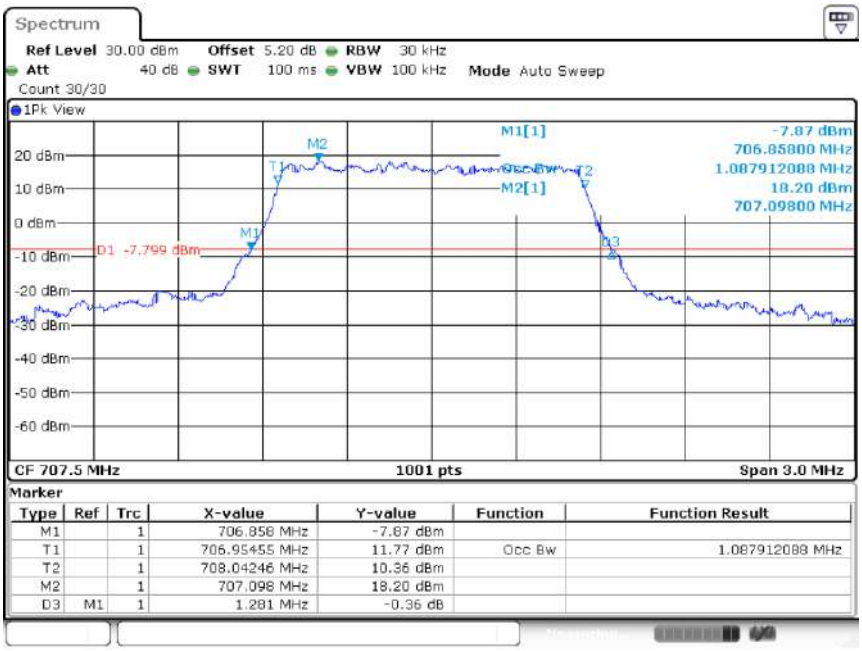
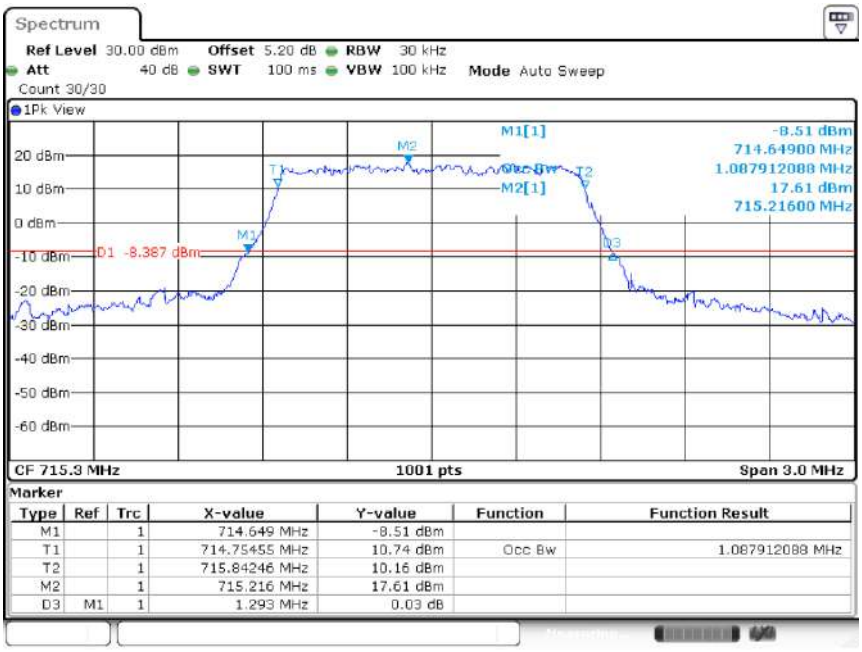
Band12-1.4MHz-16QAM-23095-6RB#0-1.088



Date: 1 SEP.2020 08:41:54

Band12-1.4MHz-16QAM-23173-6RB#0-1.088



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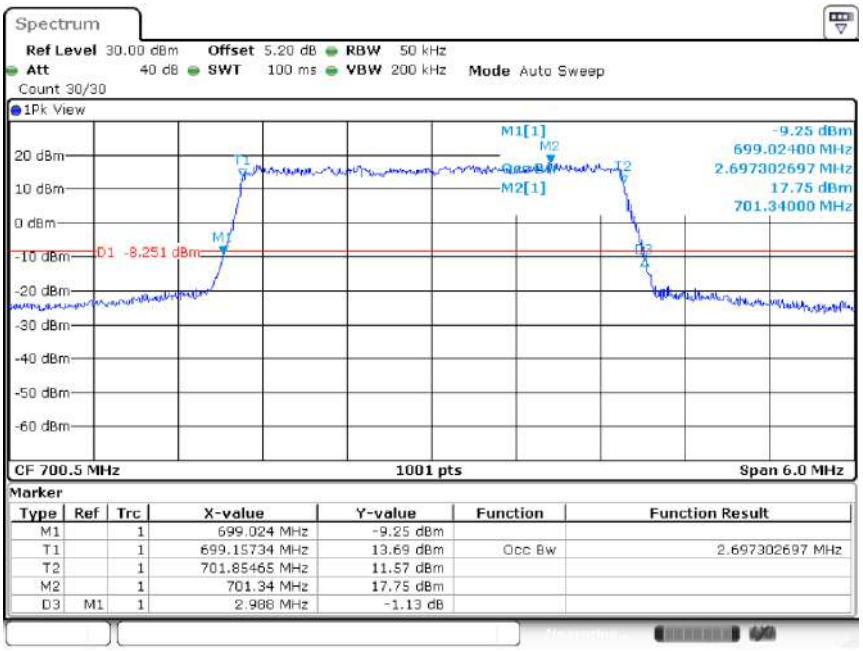
Band12-3MHz-QPSK-23025-15RB#0-2.697

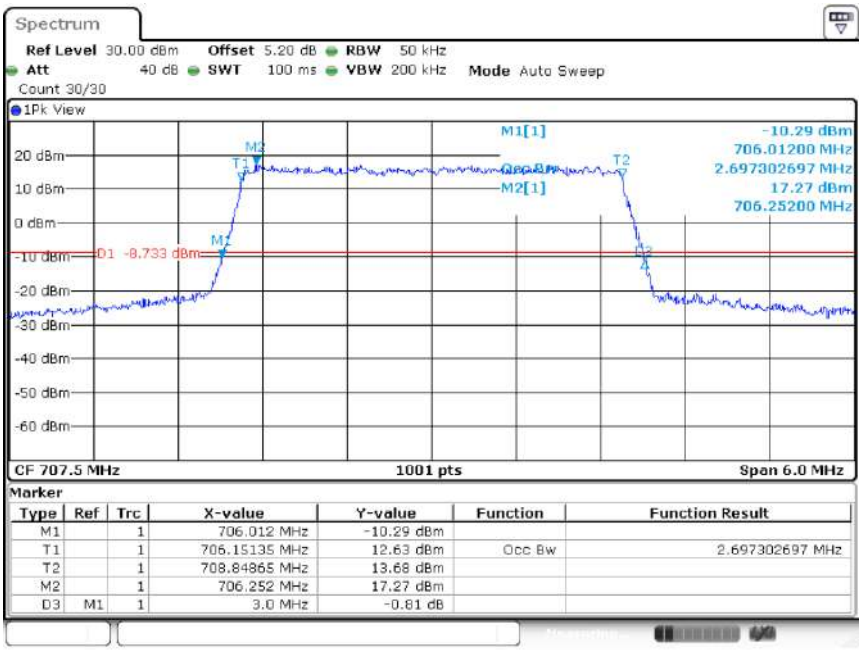


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.024 MHz	-9.25 dBm		
T1		1	699.15734 MHz	13.69 dBm	Occ Bw	2.697302697 MHz
T2		1	701.85465 MHz	11.57 dBm		
M2		1	701.34 MHz	17.75 dBm		
D3	M1	1	2.988 MHz	-1.13 dB		

Date: 1 SEP.2020 08:42:38

Band12-3MHz-QPSK-23095-15RB#0-2.697



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.012 MHz	-10.29 dBm		
T1		1	706.15135 MHz	12.63 dBm	Occ Bw	2.697302697 MHz
T2		1	708.84865 MHz	13.68 dBm		
M2		1	706.252 MHz	17.27 dBm		
D3	M1	1	3.0 MHz	-0.81 dB		

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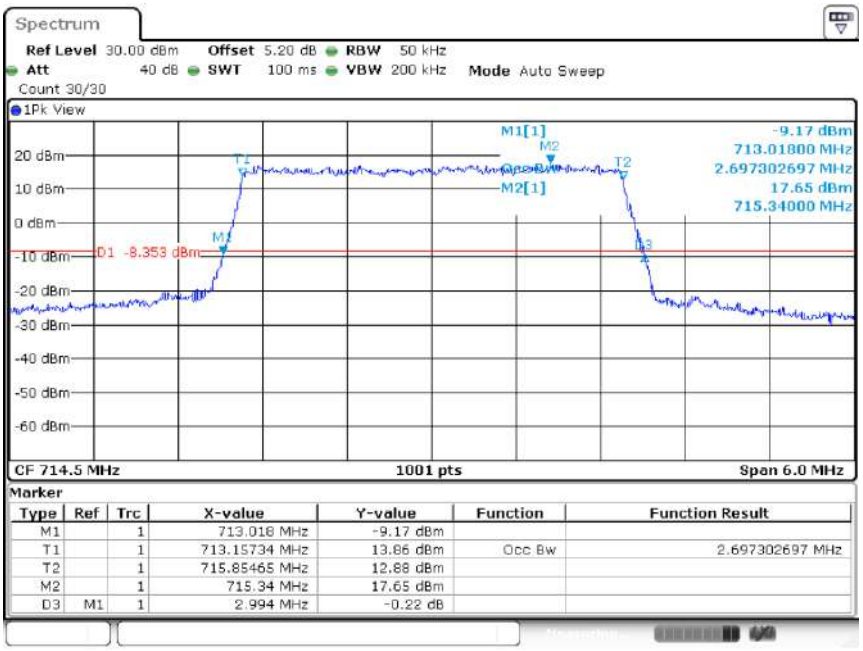
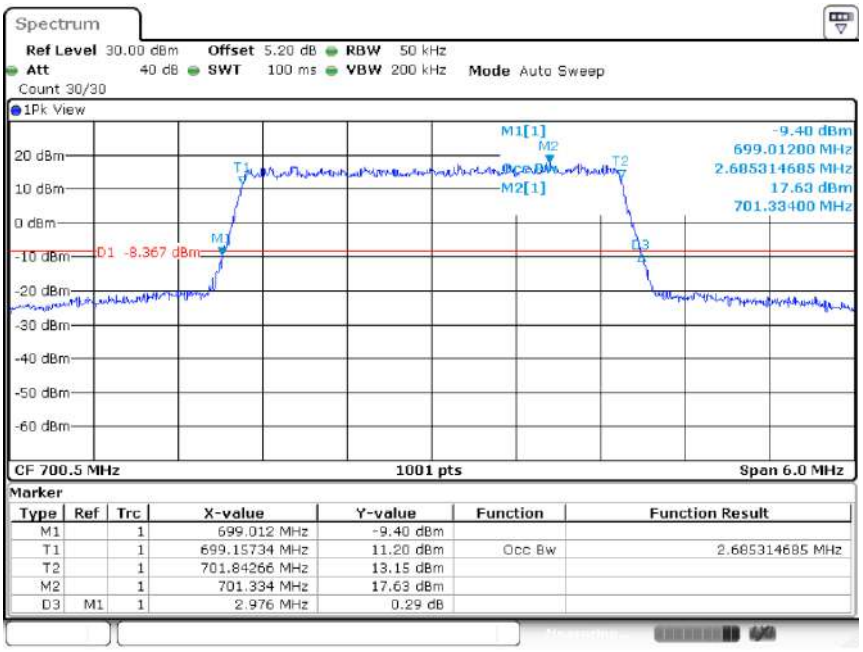
Band12-3MHz-QPSK-23165-15RB#0-2.697



Band12-3MHz-16QAM-23025-15RB#0-2.685



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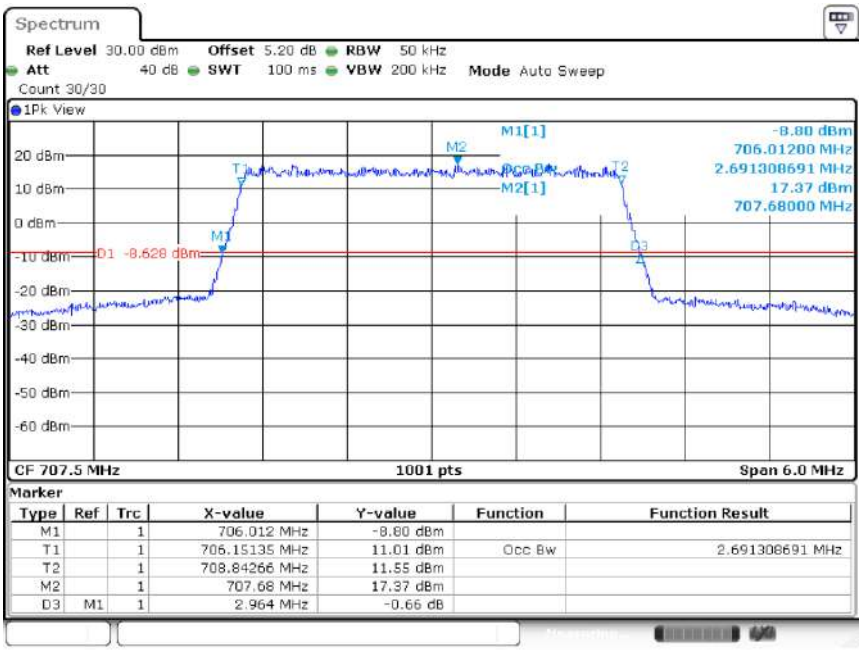
Band12-3MHz-16QAM-23095-15RB#0-2.691



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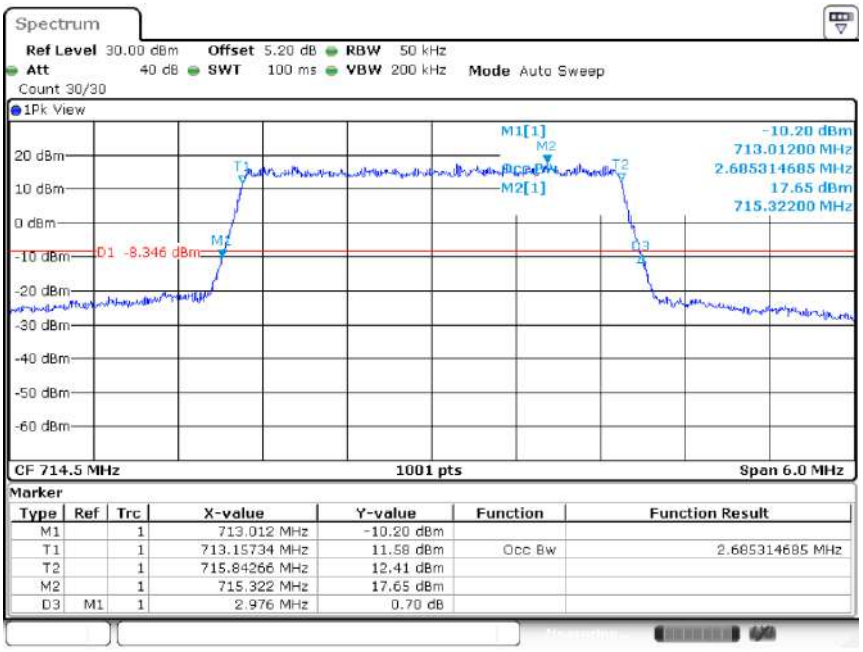
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.012 MHz	-8.80 dBm		
T1		1	706.15135 MHz	11.01 dBm	Occ Bw	2.691308691 MHz
T2		1	708.84266 MHz	11.55 dBm		
M2		1	707.68 MHz	17.37 dBm		
D3	M1	1	2.964 MHz	-0.66 dB		

Date: 1 SEP.2020 08:43:16

Band12-3MHz-16QAM-23165-15RB#0-2.685



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.012 MHz	-10.20 dBm		
T1		1	713.15734 MHz	11.58 dBm	Occ Bw	2.685314685 MHz
T2		1	715.84266 MHz	12.41 dBm		
M2		1	715.322 MHz	17.65 dBm		
D3	M1	1	2.976 MHz	0.70 dB		

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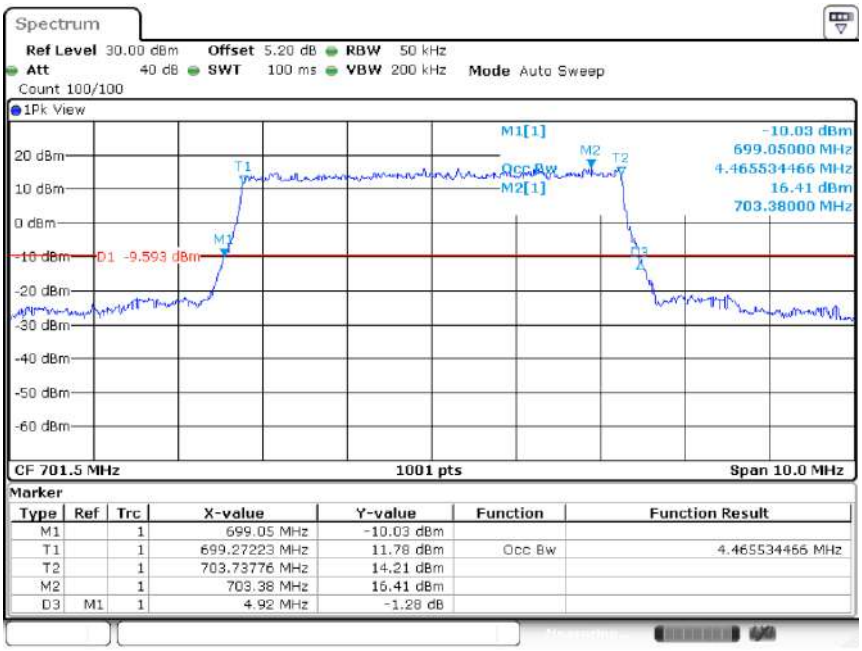
Band12-5MHz-QPSK-23035-25RB#0-4.466



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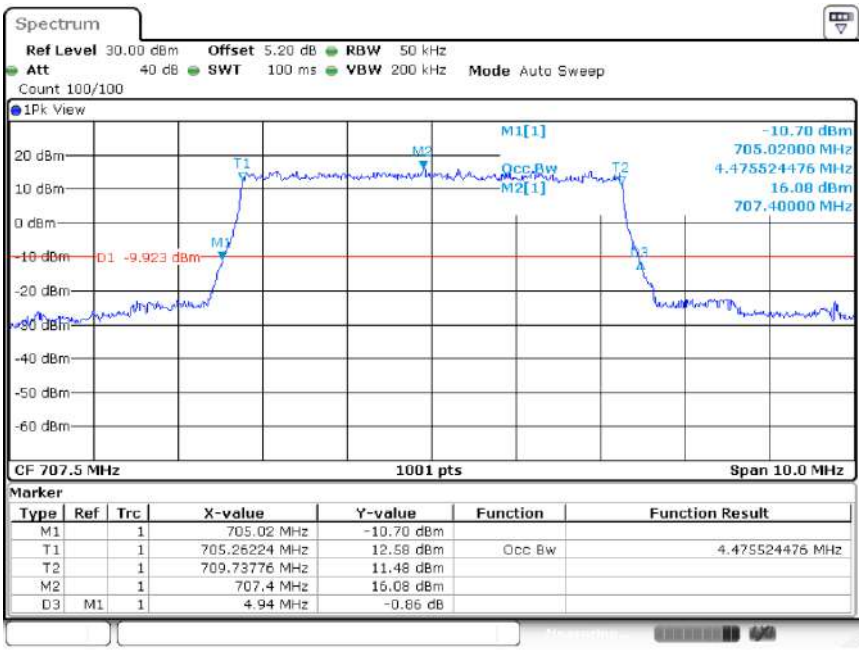
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.05 MHz	-10.03 dBm		
T1		1	699.27223 MHz	11.78 dBm	Occ Bw	4.465534466 MHz
T2		1	703.73776 MHz	14.21 dBm		
M2		1	703.38 MHz	16.41 dBm		
D3	M1	1	4.92 MHz	-1.28 dB		

Date: 1 SEP.2020 08:44:06

Band12-5MHz-QPSK-23095-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.02 MHz	-10.70 dBm		
T1		1	705.26224 MHz	12.58 dBm	Occ Bw	4.475524476 MHz
T2		1	709.73776 MHz	11.48 dBm		
M2		1	707.4 MHz	16.08 dBm		
D3	M1	1	4.94 MHz	-0.86 dB		

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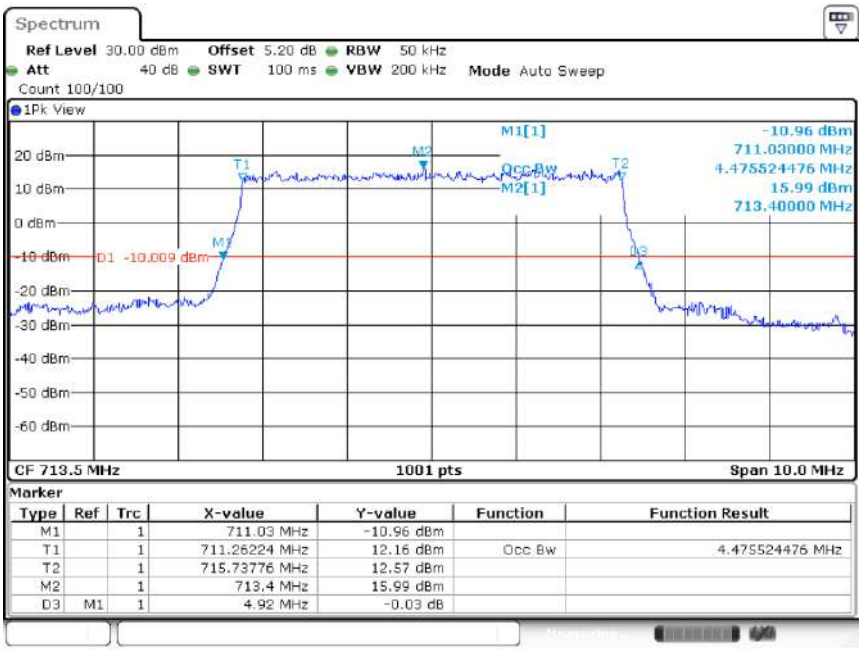
Band12-5MHz-QPSK-23155-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.03 MHz	-10.96 dBm		
T1		1	711.26224 MHz	12.16 dBm	Occ Bw	4.475524476 MHz
T2		1	715.73776 MHz	12.57 dBm		
M2		1	713.4 MHz	15.99 dBm		
D3	M1	1	4.92 MHz	-0.03 dB		

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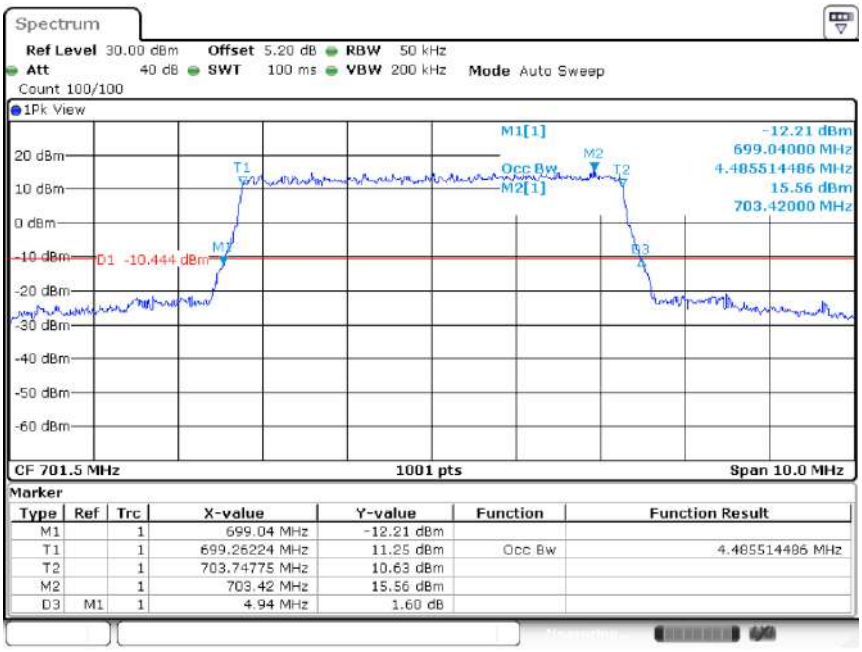
Band12-5MHz-16QAM-23035-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.04 MHz	-12.21 dBm		
T1		1	699.26224 MHz	11.25 dBm	Occ Bw	4.485514486 MHz
T2		1	703.74775 MHz	10.63 dBm		
M2		1	703.42 MHz	15.56 dBm		
D3	M1	1	4.94 MHz	1.60 dB		

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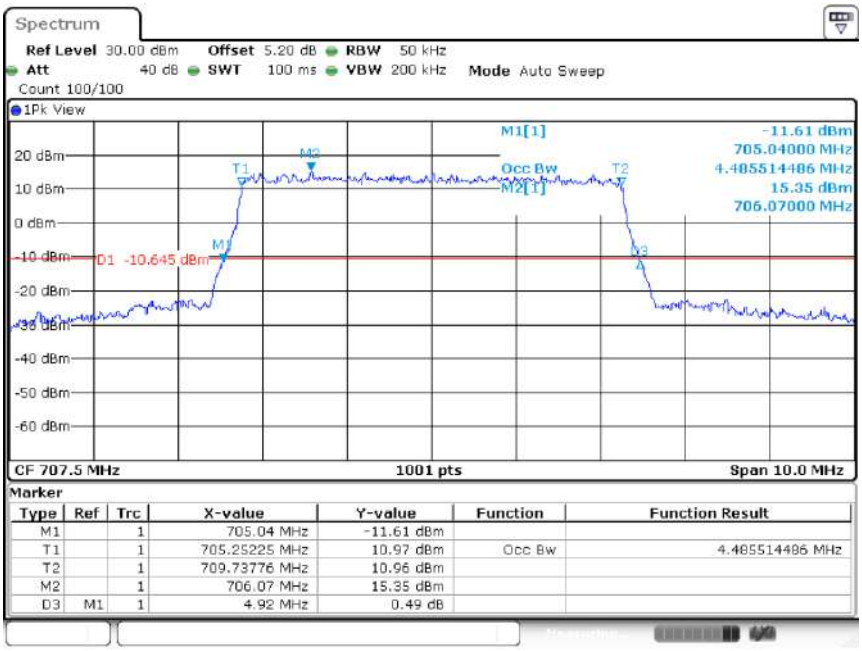
Band12-5MHz-16QAM-23095-25RB#0-4.486



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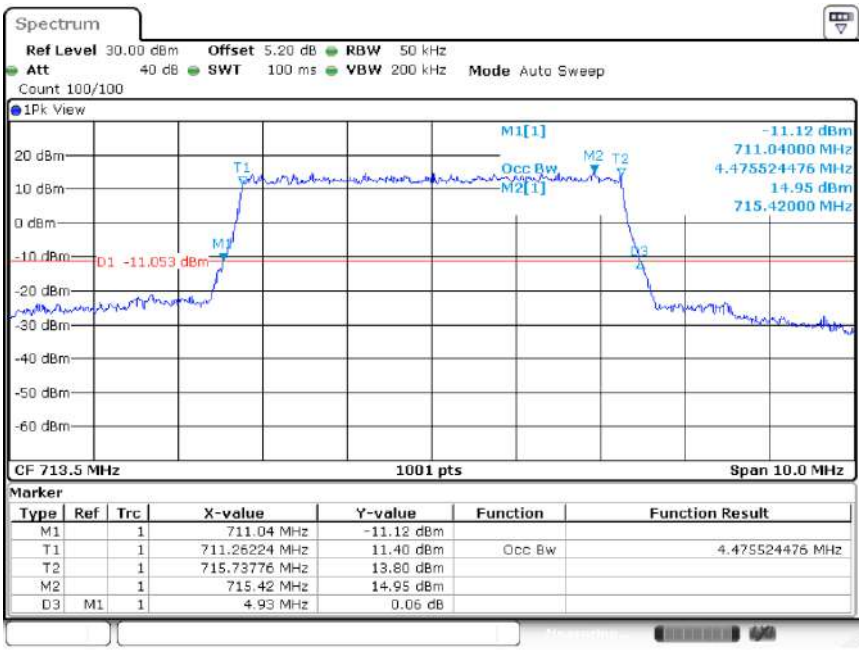
Band12-5MHz-16QAM-23155-25RB#0-4.476



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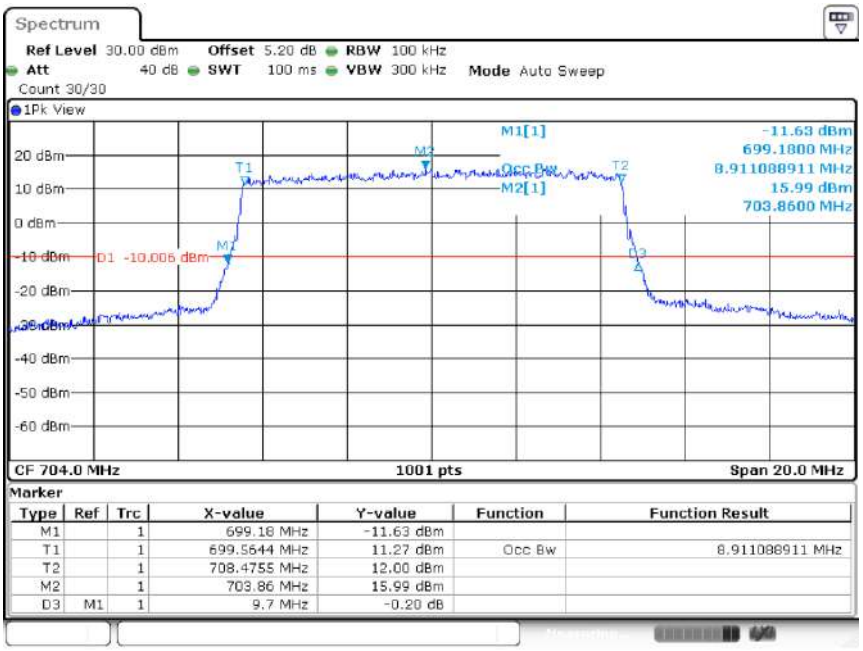
Band12-10MHz-QPSK-23060-50RB#0-8.911

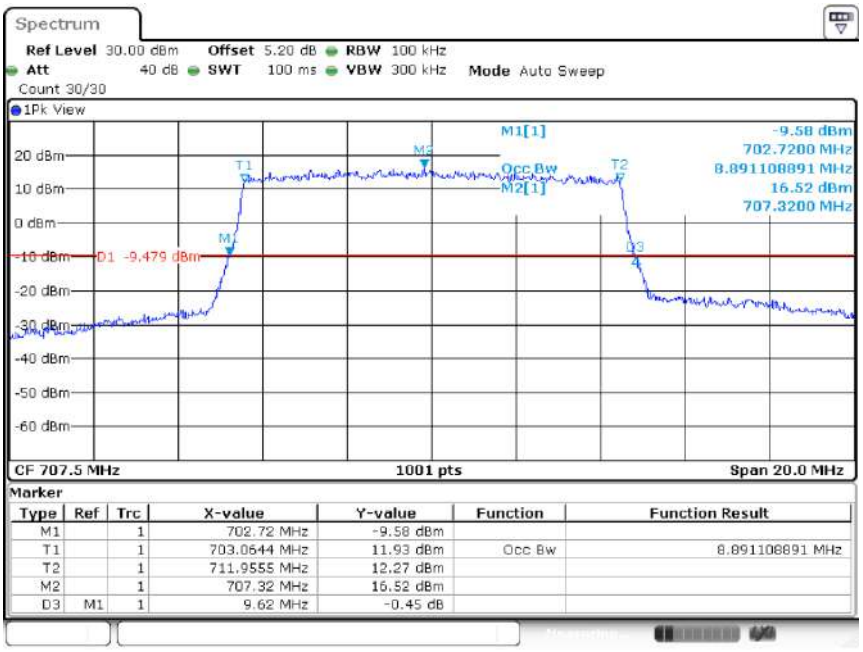


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.18 MHz	-11.63 dBm		
T1		1	699.5644 MHz	11.27 dBm	Occ Bw	8.911088911 MHz
T2		1	708.4755 MHz	12.00 dBm		
M2		1	703.86 MHz	15.99 dBm		
D3	M1	1	9.7 MHz	-0.20 dB		

Date: 1 SEP.2020 08:46:02

Band12-10MHz-QPSK-23095-50RB#0-8.891



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	702.72 MHz	-9.58 dBm		
T1		1	703.0644 MHz	11.93 dBm	Occ Bw	8.891108891 MHz
T2		1	711.9555 MHz	12.27 dBm		
M2		1	707.32 MHz	16.52 dBm		
D3	M1	1	9.62 MHz	-0.45 dB		

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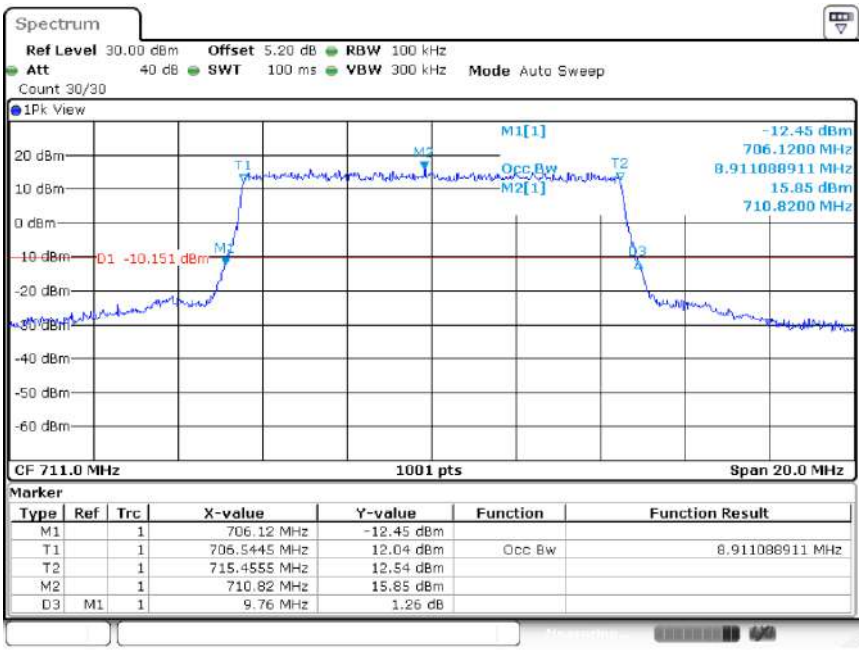
Band12-10MHz-QPSK-23130-50RB#0-8.911



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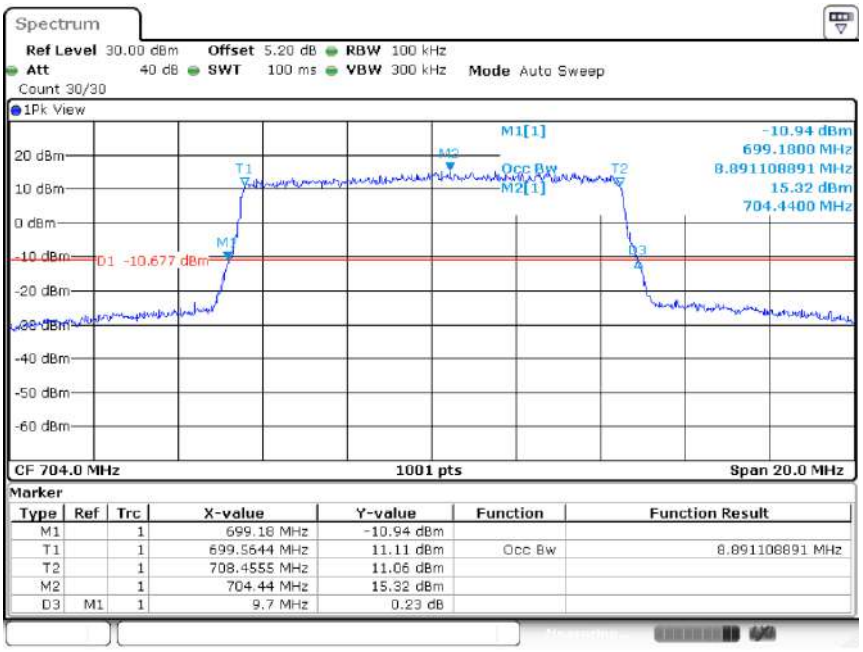
Band12-10MHz-16QAM-23060-50RB#0-8.891



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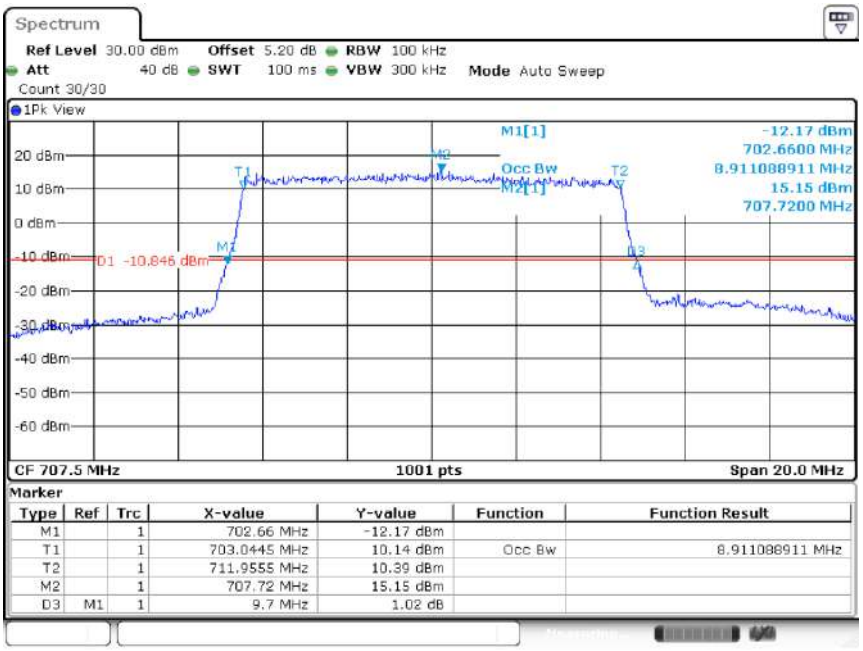
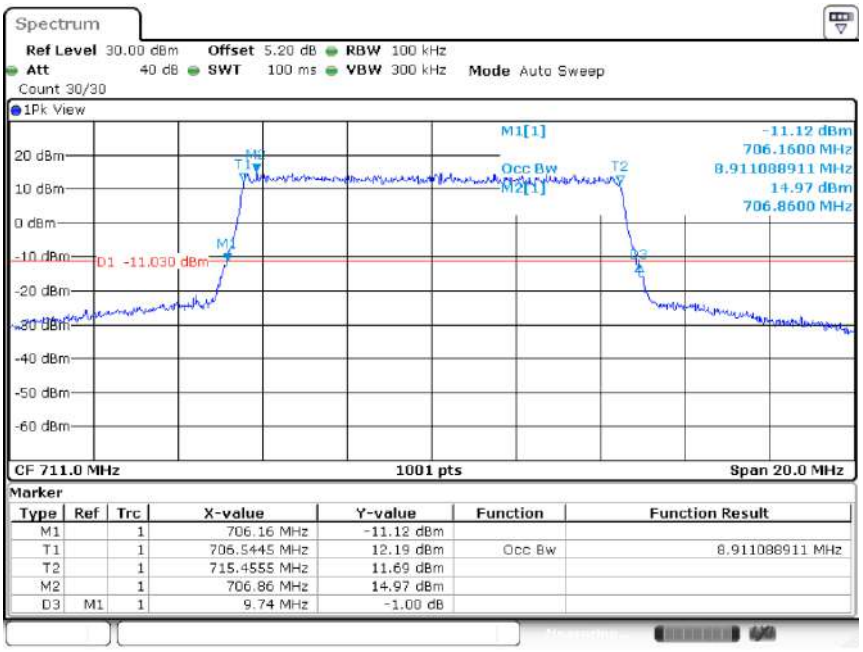


Band12-10MHz-16QAM-23130-50RB#0-8.911



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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-19.74	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-25.48	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-19.45	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-25.78	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-22.03	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-25.50	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-22.02	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-26.30	PASS
Band12	3MHz	QPSK	23025	1RB#0	-16.96	PASS
Band12	3MHz	QPSK	23025	15RB#0	-24.59	PASS
Band12	3MHz	QPSK	23165	1RB#14	-15.80	PASS
Band12	3MHz	QPSK	23165	15RB#0	-24.07	PASS
Band12	3MHz	16QAM	23025	1RB#0	-17.34	PASS
Band12	3MHz	16QAM	23025	15RB#0	-25.26	PASS
Band12	3MHz	16QAM	23165	1RB#14	-18.68	PASS
Band12	3MHz	16QAM	23165	15RB#0	-24.95	PASS
Band12	5MHz	QPSK	23035	1RB#0	-20.46	PASS
Band12	5MHz	QPSK	23035	25RB#0	-27.54	PASS
Band12	5MHz	QPSK	23155	1RB#24	-21.19	PASS
Band12	5MHz	QPSK	23155	25RB#0	-27.80	PASS
Band12	5MHz	16QAM	23035	1RB#0	-21.72	PASS
Band12	5MHz	16QAM	23035	25RB#0	-27.90	PASS
Band12	5MHz	16QAM	23155	1RB#24	-22.44	PASS
Band12	5MHz	16QAM	23155	25RB#0	-28.17	PASS
Band12	10MHz	QPSK	23060	1RB#0	-31.53	PASS
Band12	10MHz	QPSK	23060	50RB#0	-30.76	PASS
Band12	10MHz	QPSK	23130	1RB#49	-31.19	PASS
Band12	10MHz	QPSK	23130	50RB#0	-29.37	PASS
Band12	10MHz	16QAM	23060	1RB#0	-31.54	PASS
Band12	10MHz	16QAM	23060	50RB#0	-31.62	PASS
Band12	10MHz	16QAM	23130	1RB#49	-33.24	PASS
Band12	10MHz	16QAM	23130	50RB#0	-30.34	PASS

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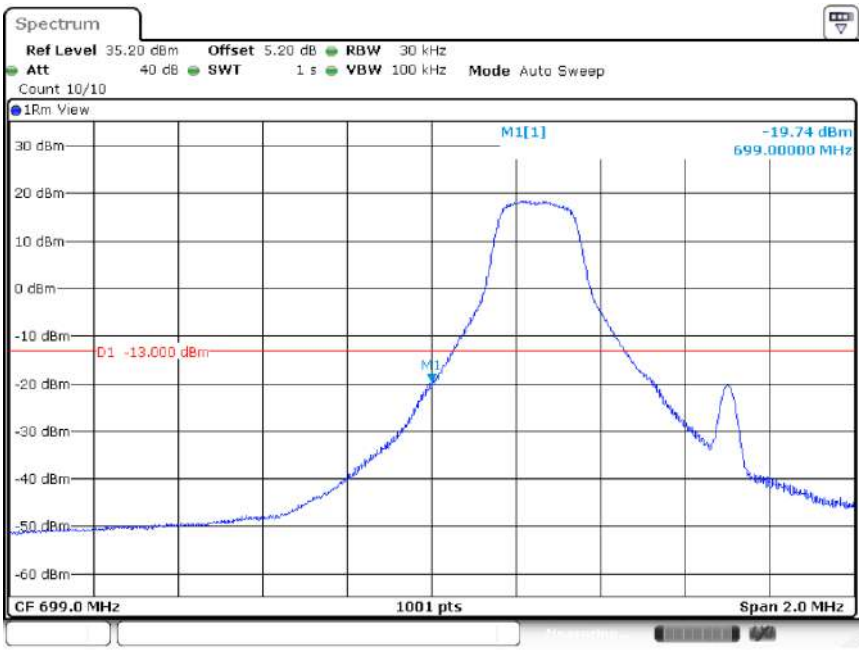
5.2. Test Plots

Band12-1.4MHz-QPSK-23017-1RB#0



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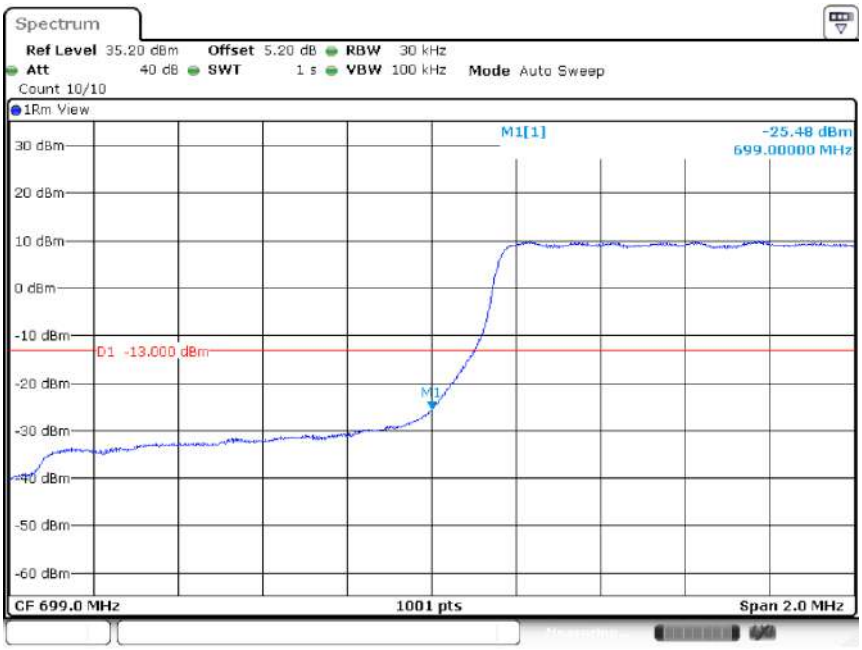
Band12-1.4MHz-QPSK-23017-6RB#0



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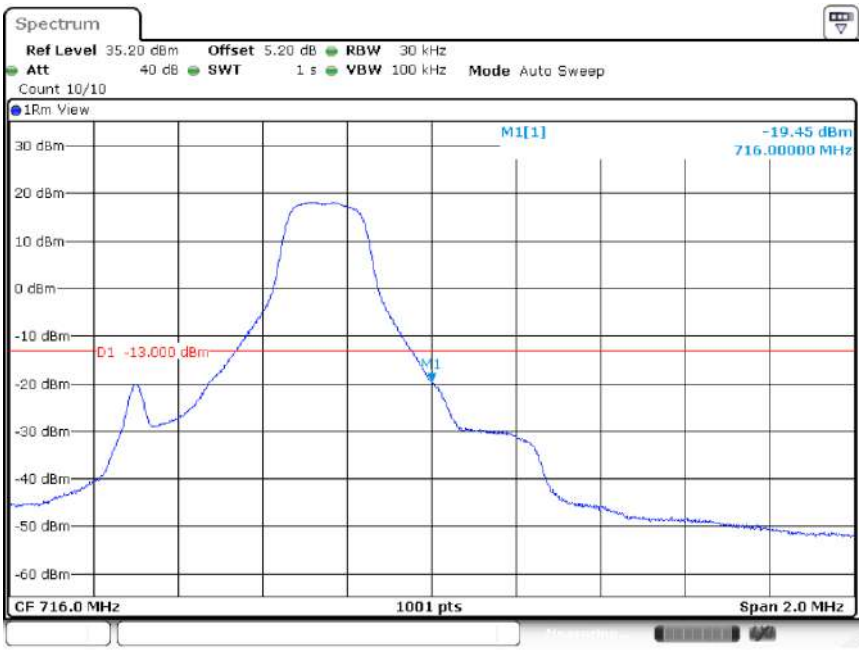
Band12-1.4MHz-QPSK-23173-1RB#5



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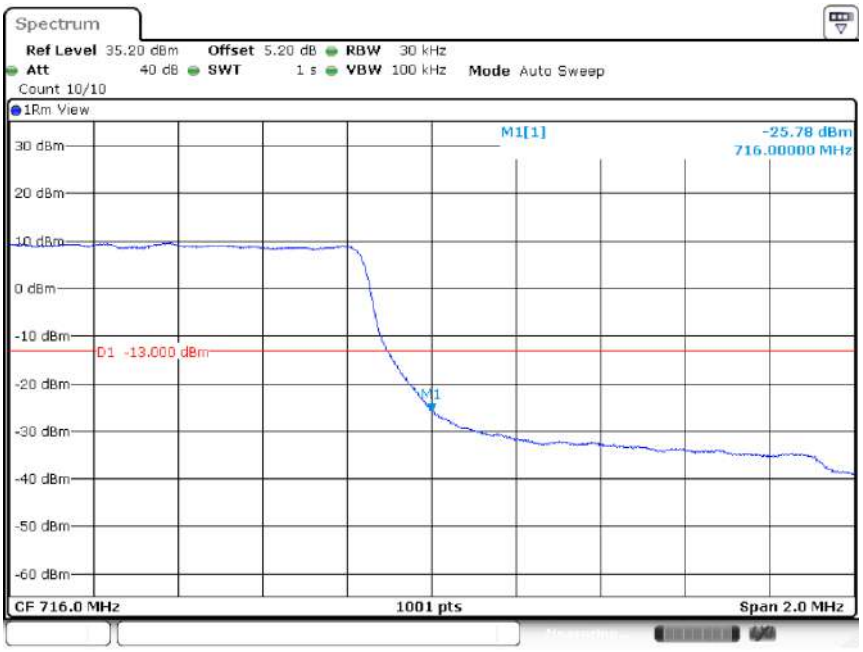

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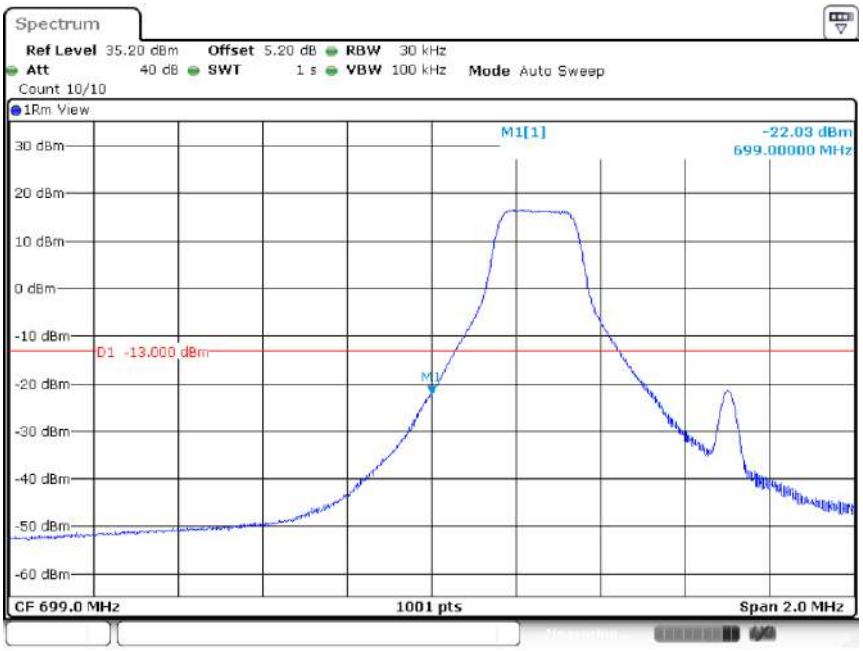
Band12-1.4MHz-16QAM-23017-1RB#0



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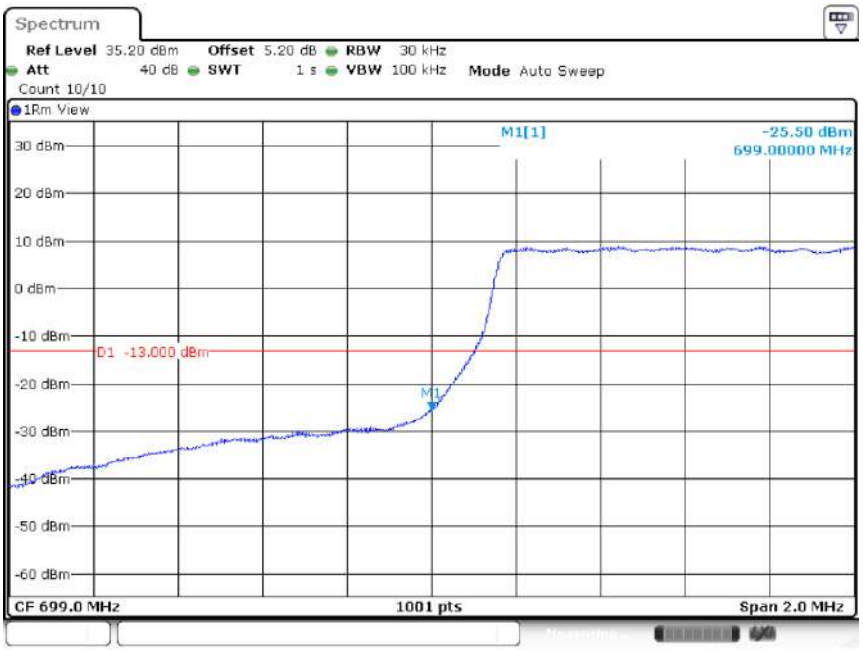

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Band12-1.4MHz-16QAM-23173-1RB#5

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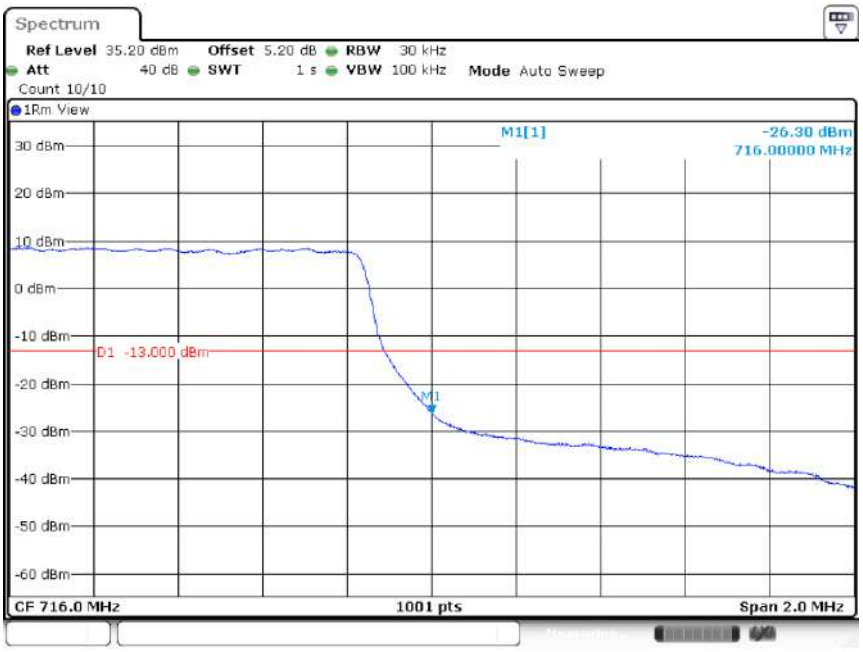
Band12-1.4MHz-16QAM-23173-6RB#0



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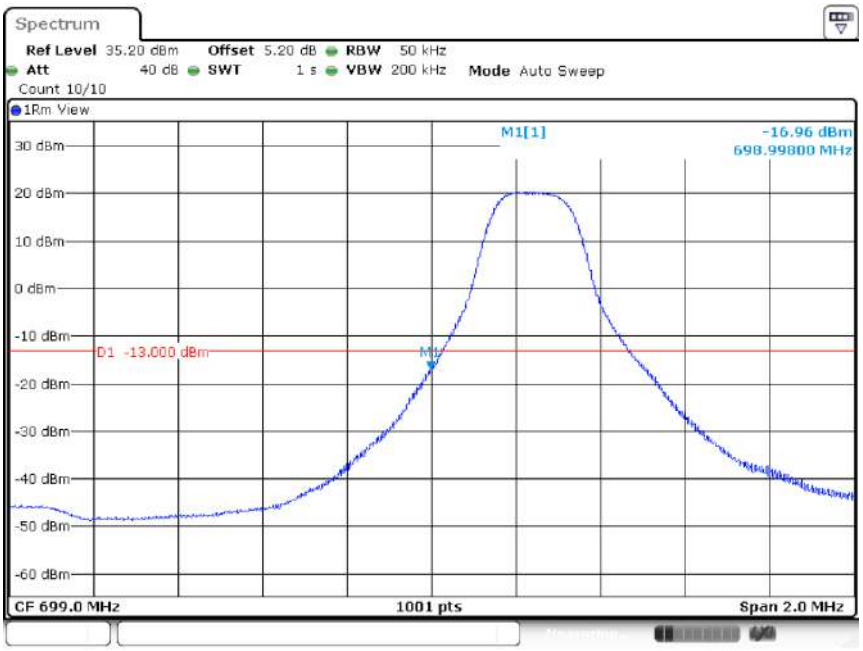
Band12-3MHz-QPSK-23025-1RB#0



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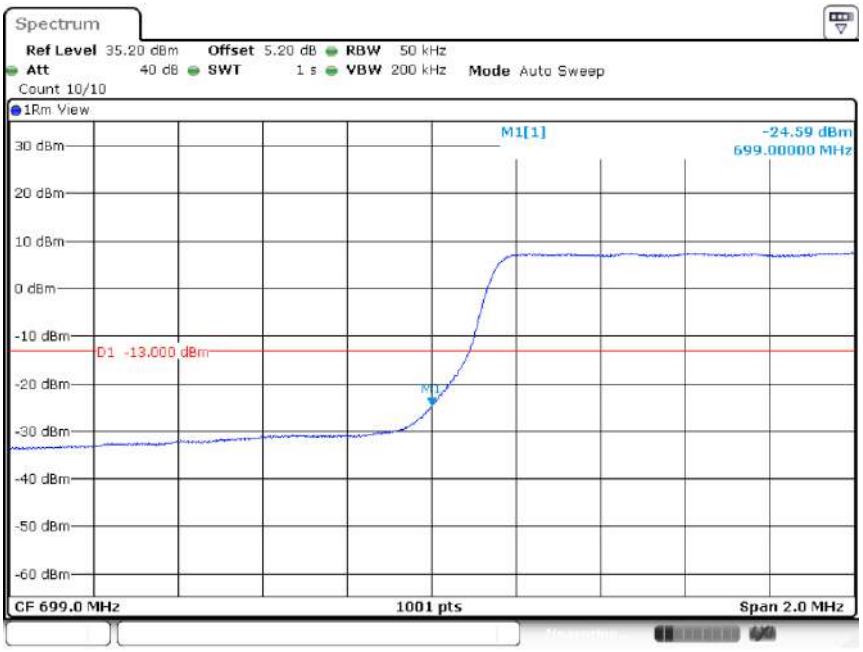

Date: 1 SEP.2020 08:51:07

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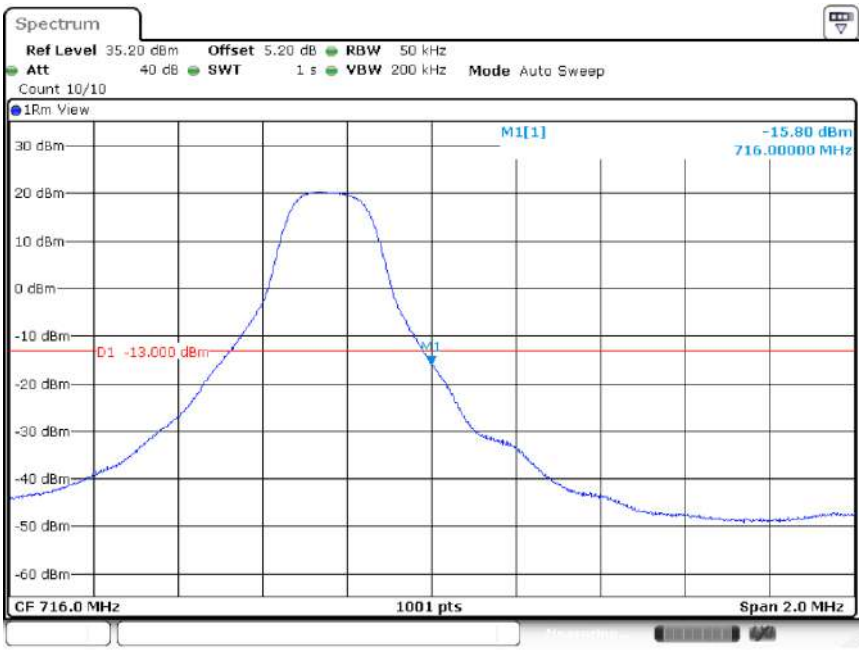
Band12-3MHz-QPSK-23165-1RB#14



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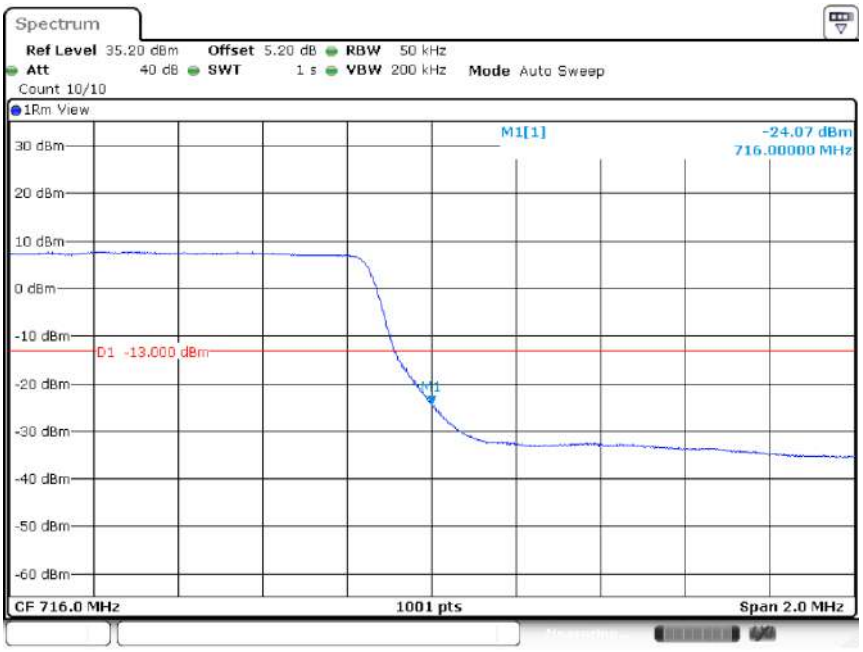

Date: 1 SEP.2020 08:52:33

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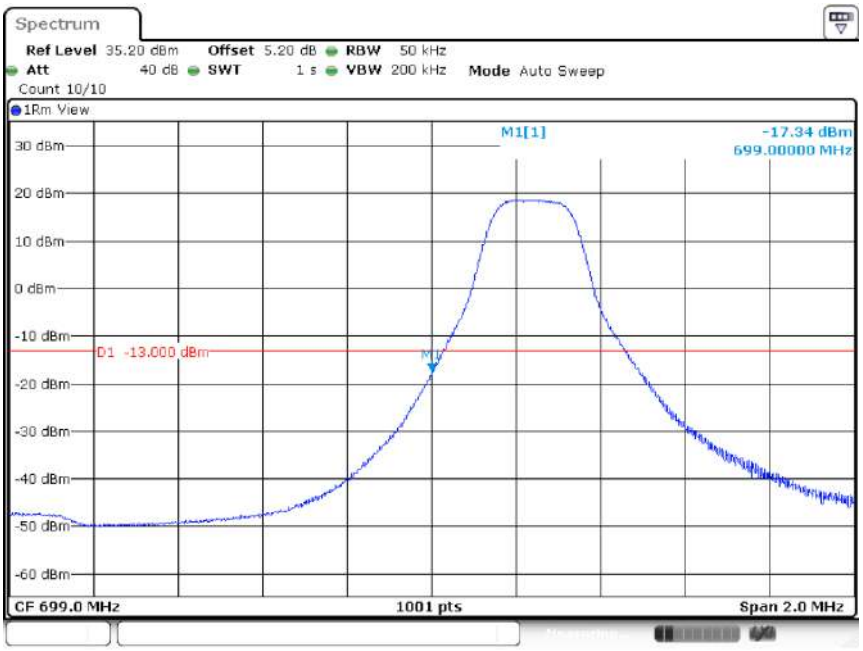
Band12-3MHz-16QAM-23025-1RB#0



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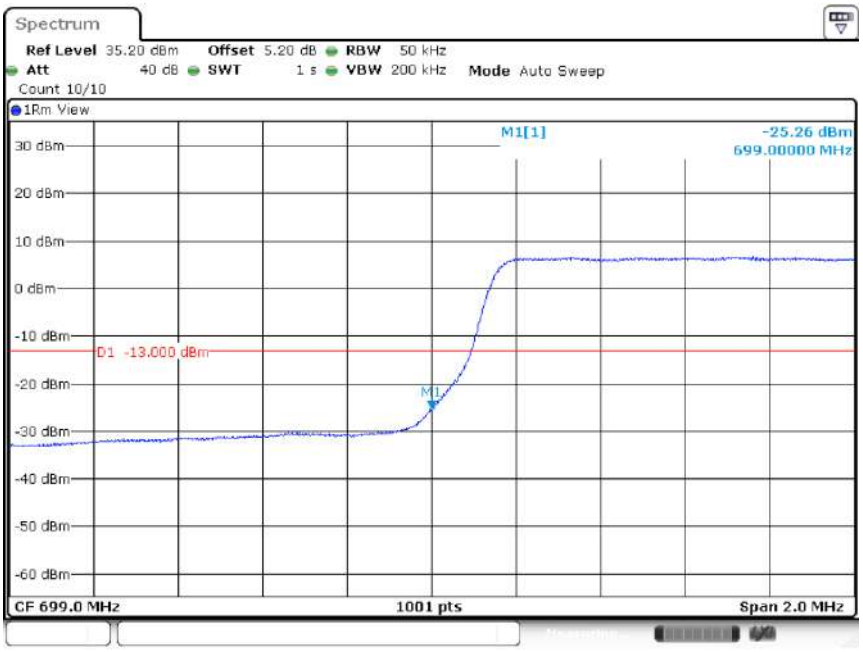

Date: 1 SEP.2020 08:51:27

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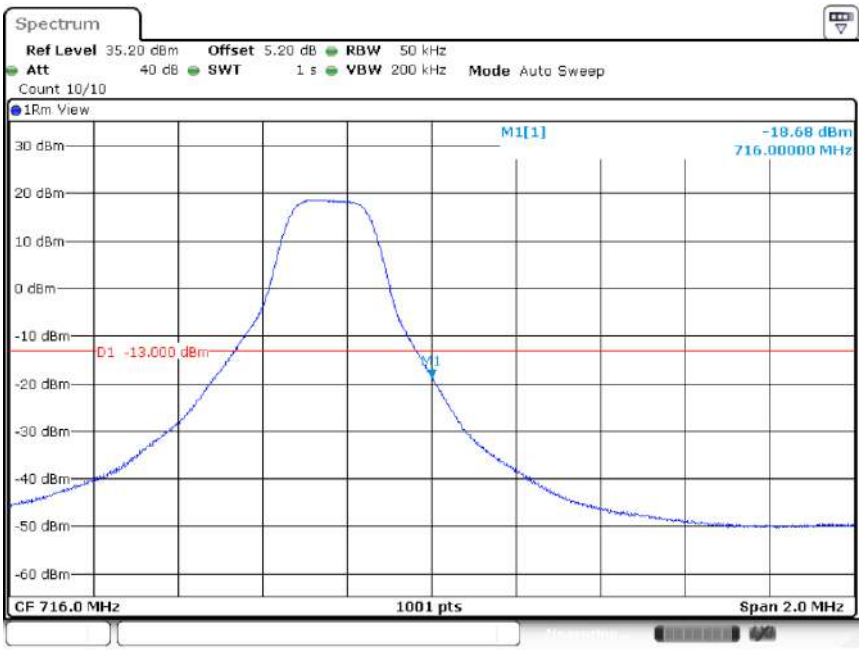
Band12-3MHz-16QAM-23165-1RB#14



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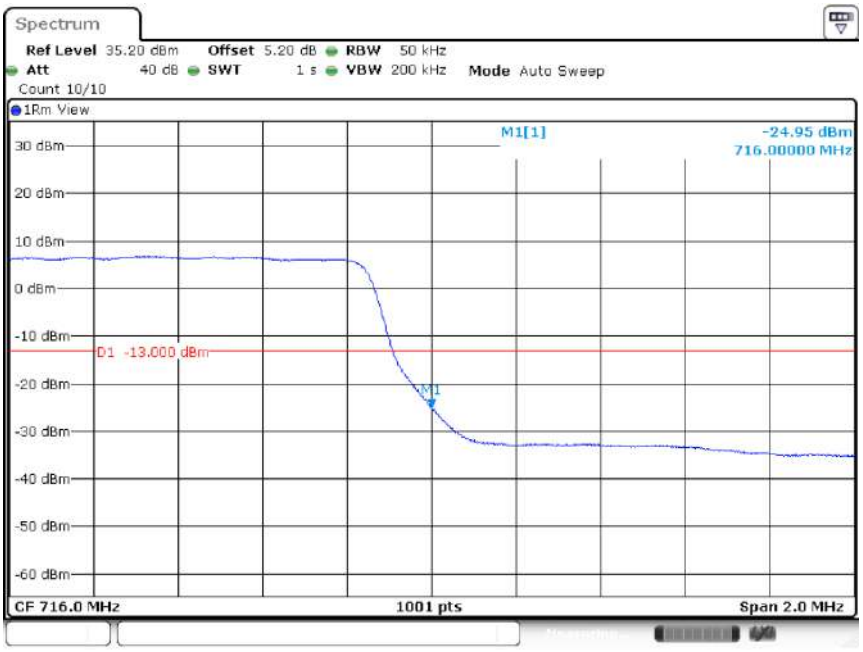
Band12-3MHz-16QAM-23165-15RB#0



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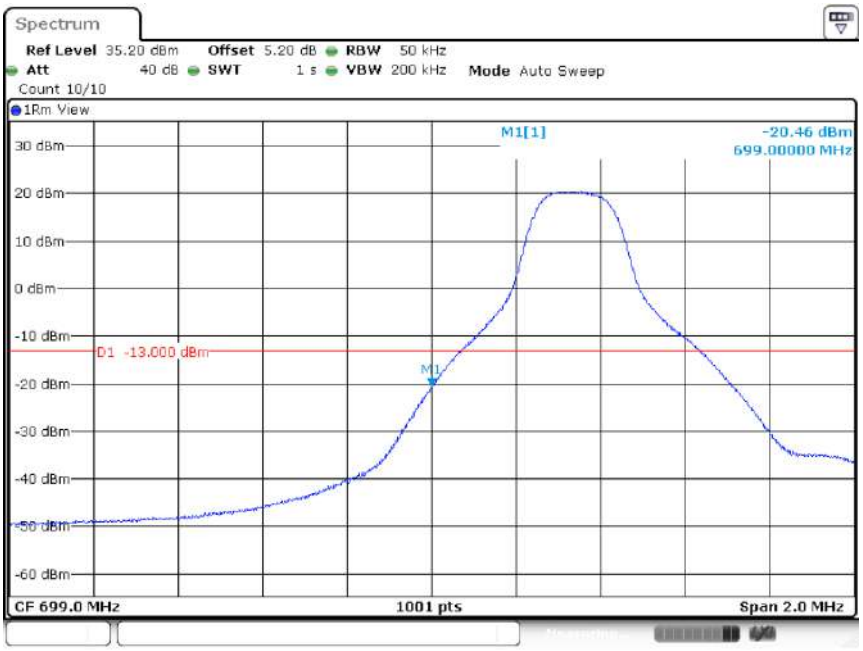
Band12-5MHz-QPSK-23035-1RB#0



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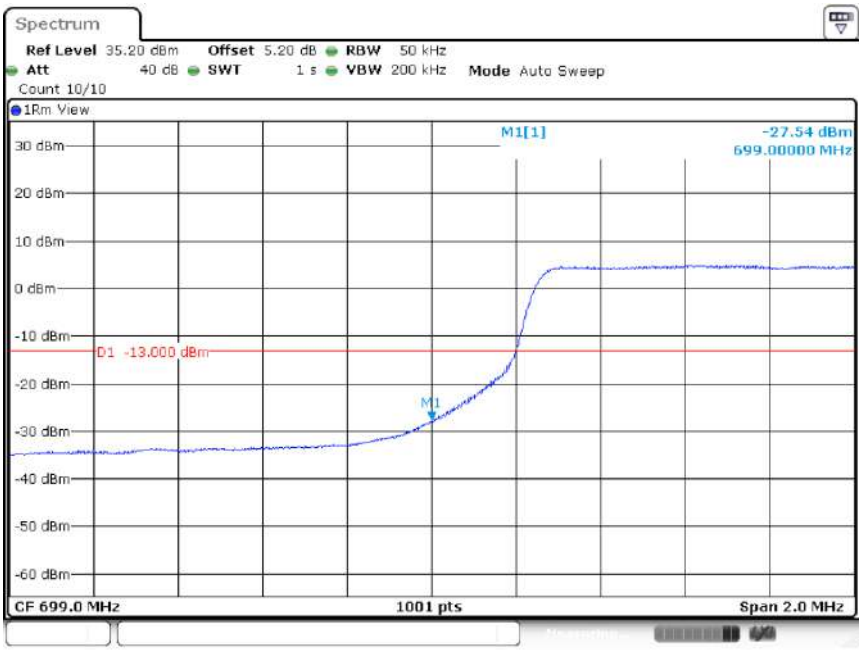
Band12-5MHz-QPSK-23035-25RB#0



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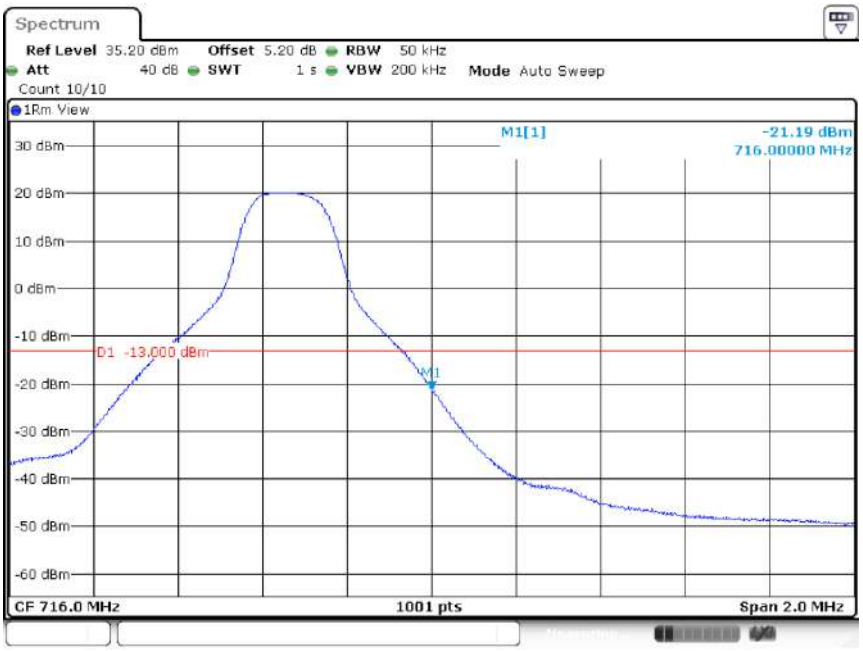
Band12-5MHz-QPSK-23155-1RB#24



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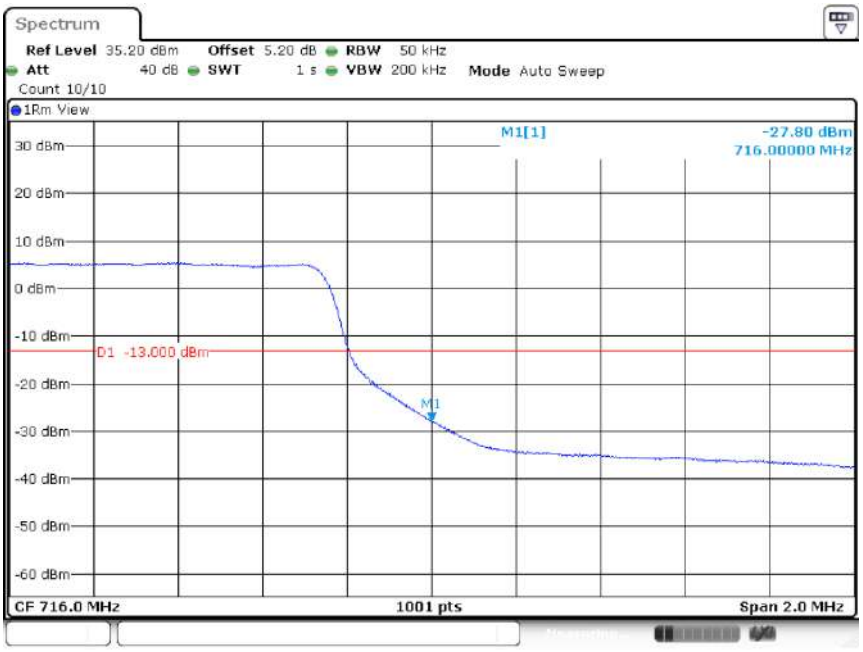

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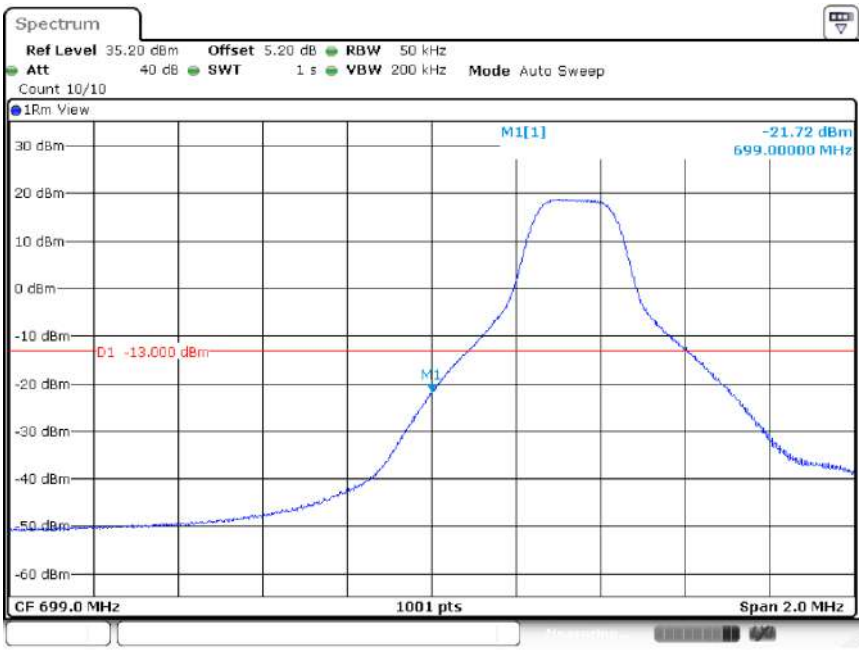
Band12-5MHz-16QAM-23035-1RB#0



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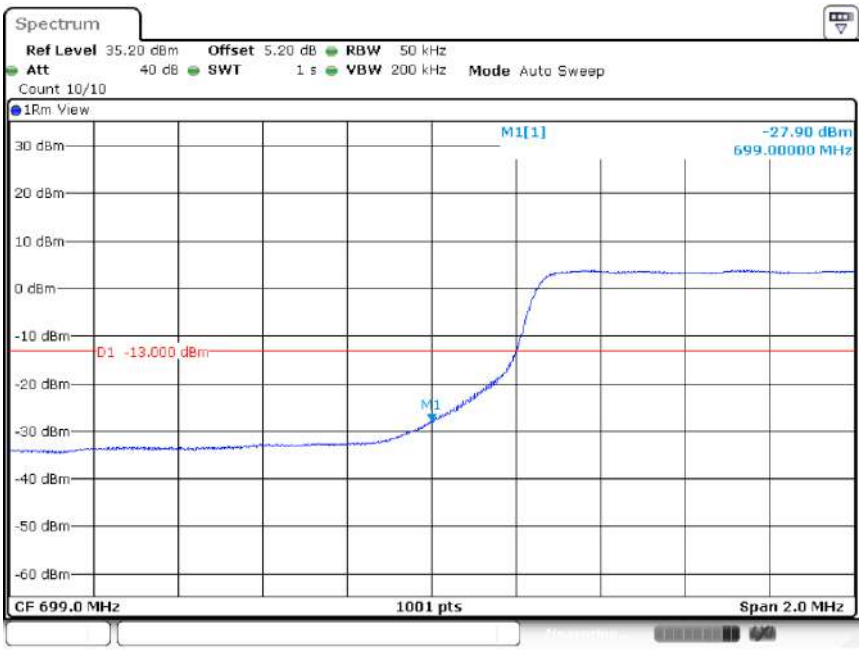
Band12-5MHz-16QAM-23035-25RB#0



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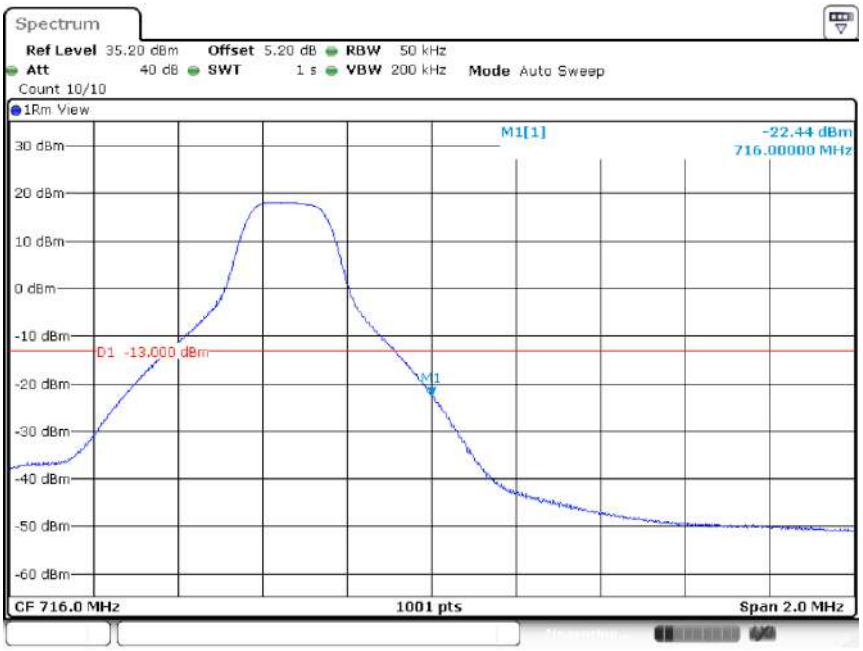
Band12-5MHz-16QAM-23155-1RB#24



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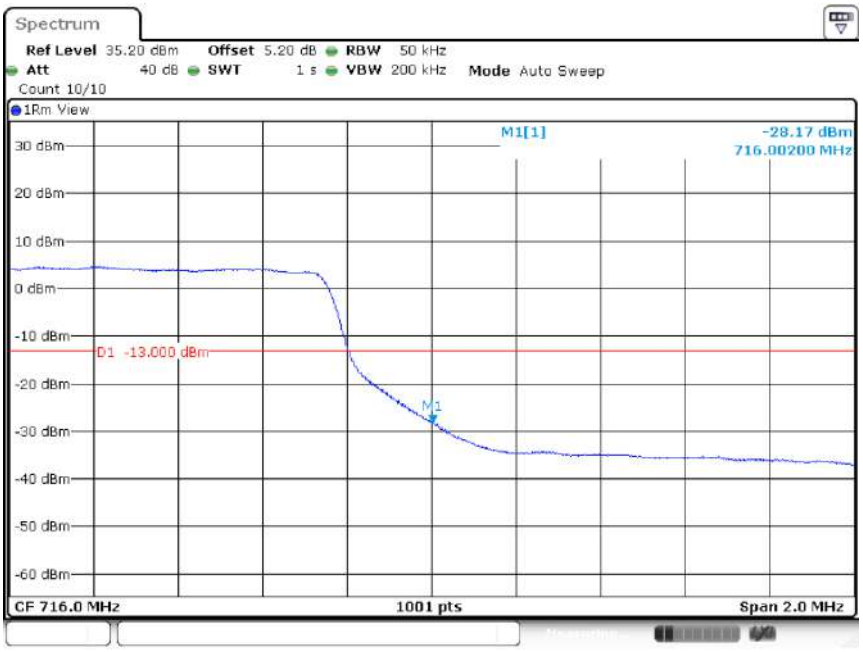

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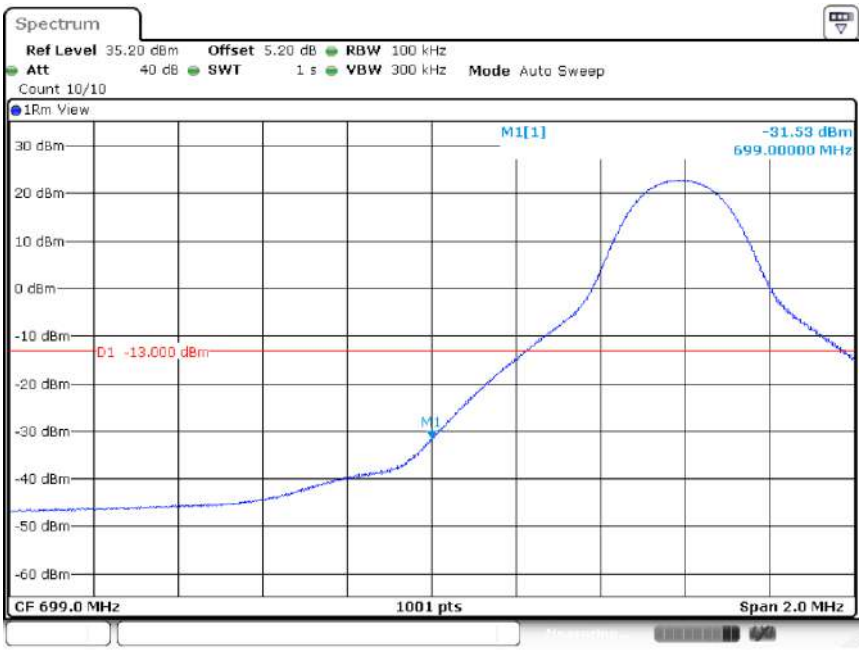
Band12-10MHz-QPSK-23060-1RB#0



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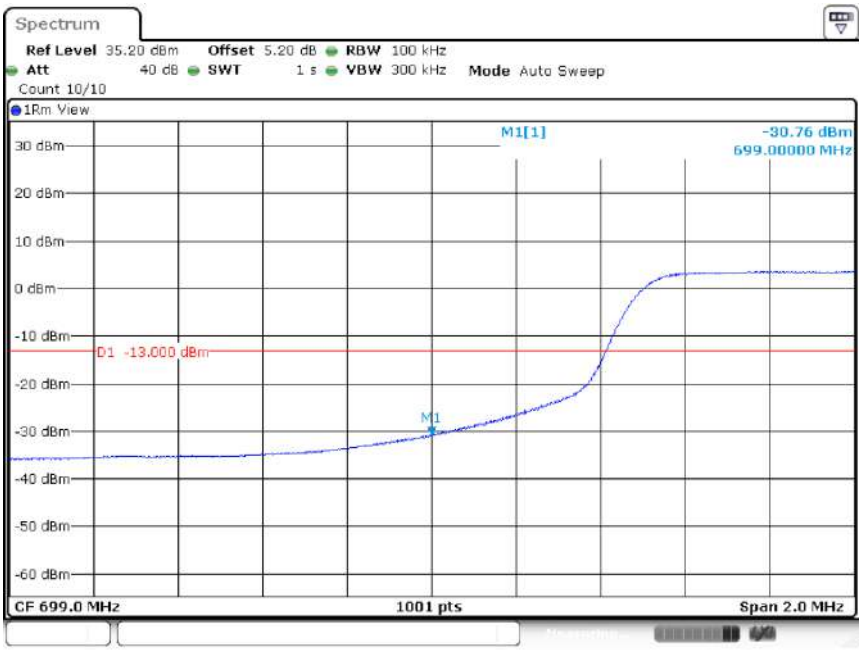
Band12-10MHz-QPSK-23060-50RB#0



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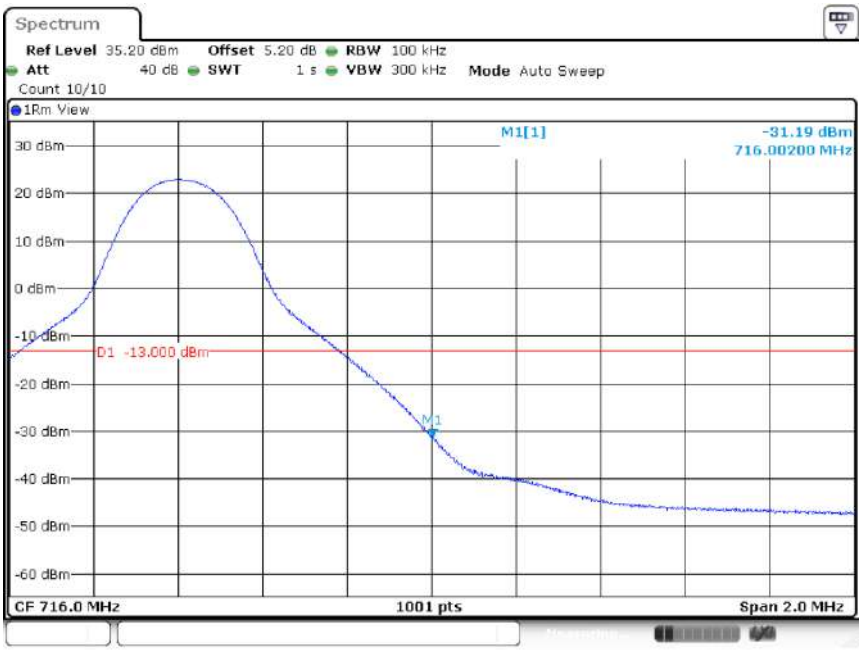
Band12-10MHz-QPSK-23130-1RB#49



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Band12-10MHz-QPSK-23130-50RB#0

Date: 1 SEP.2020 08:58:20

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Band12-10MHz-16QAM-23060-1RB#0

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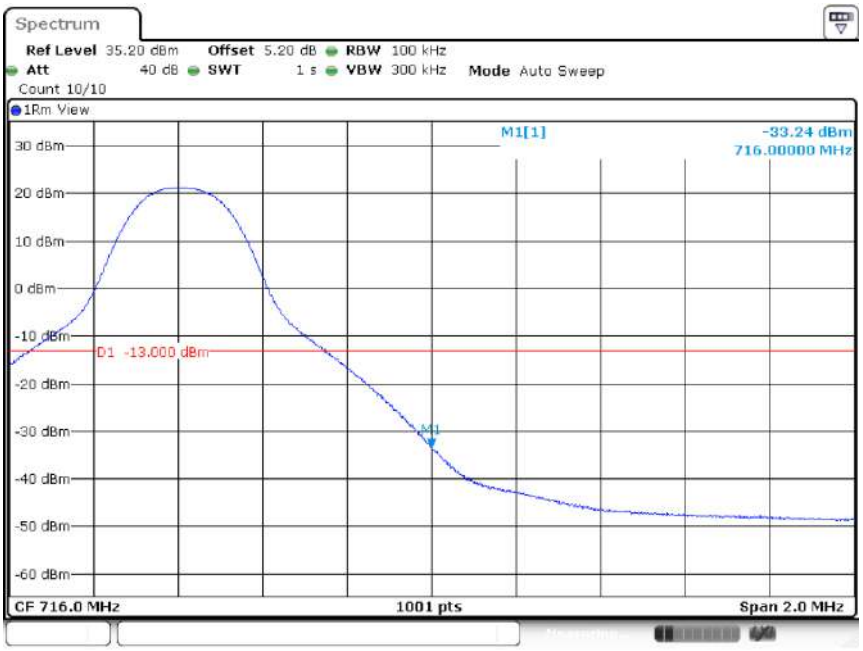
Band12-10MHz-16QAM-23130-1RB#49



Date: 1 SEP.2020 08:58:00

Band12-10MHz-16QAM-23130-50RB#0

Date: 1 SEP.2020 08:58:41

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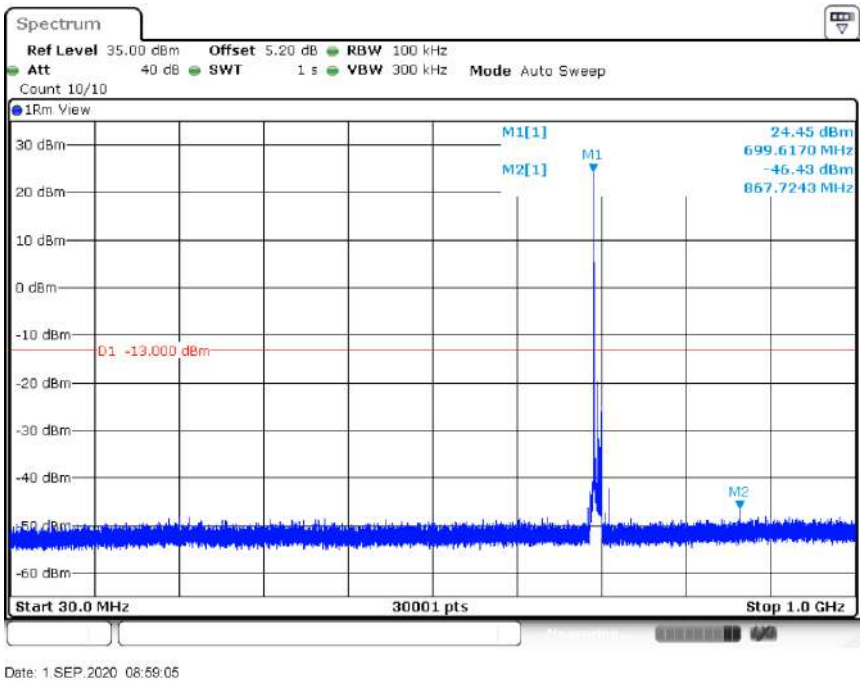
6. Spurious Emission at Antenna Terminal

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

Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



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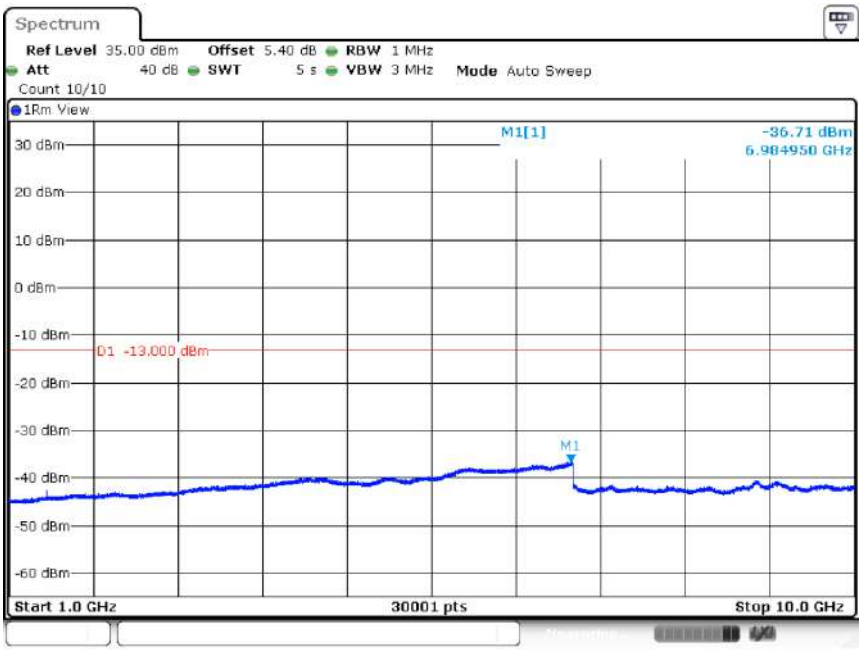
Band12-10MHz-QPSK-23060-1RB#0-Range1:1000~10000MHz



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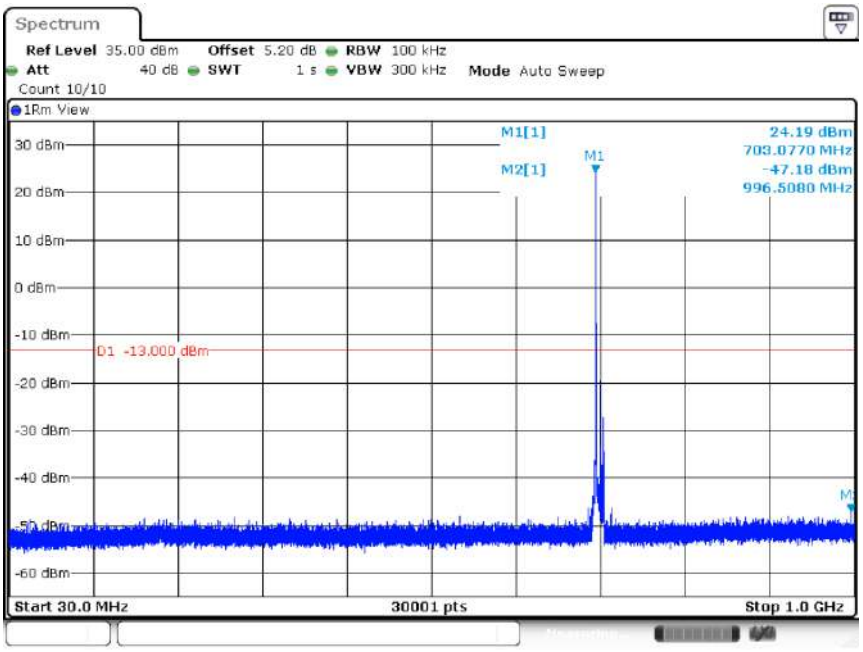
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Date: 1 SEP.2020 09:01:59

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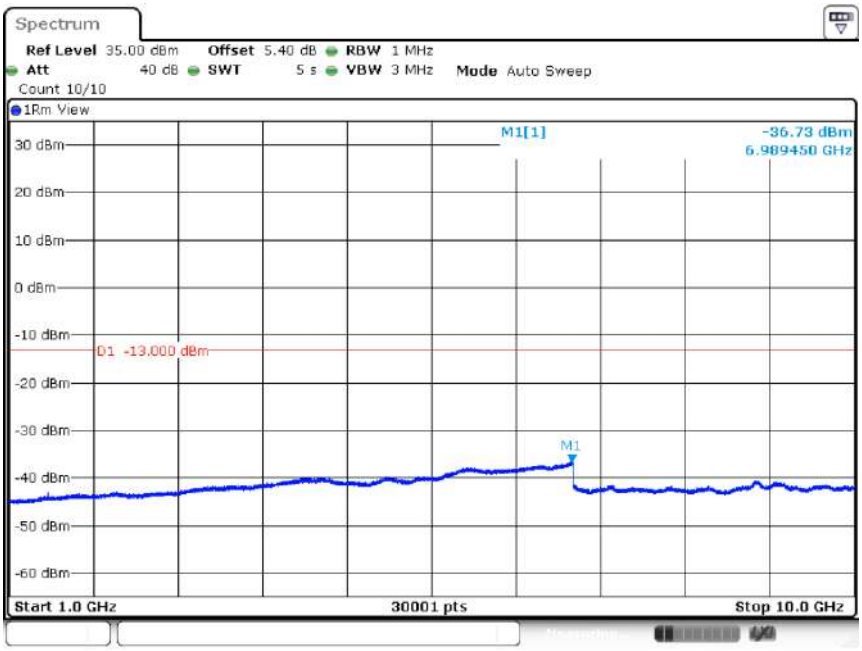
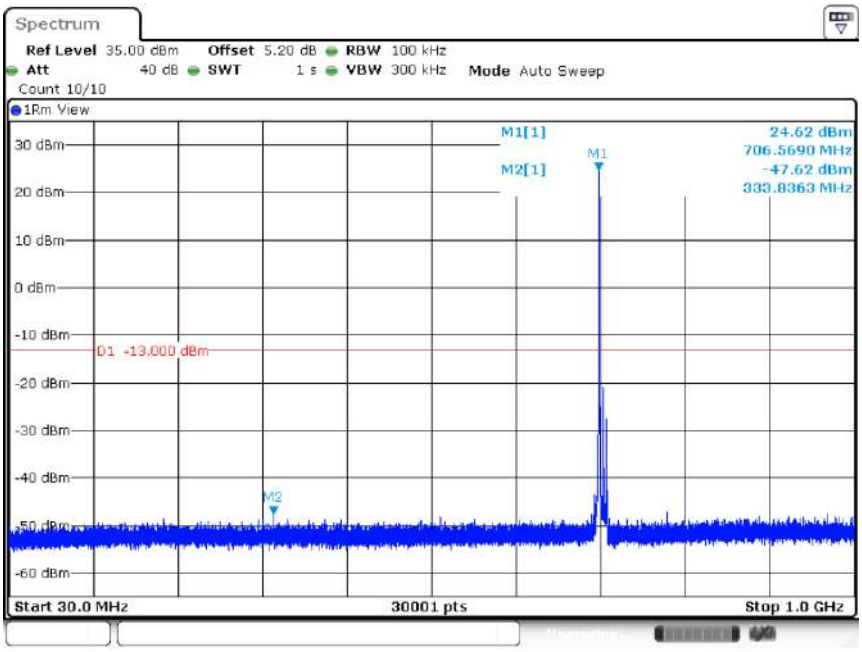
Band12-10MHz-QPSK-23095-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:53:39

Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



Date: 1 SEP.2020 09:04:53

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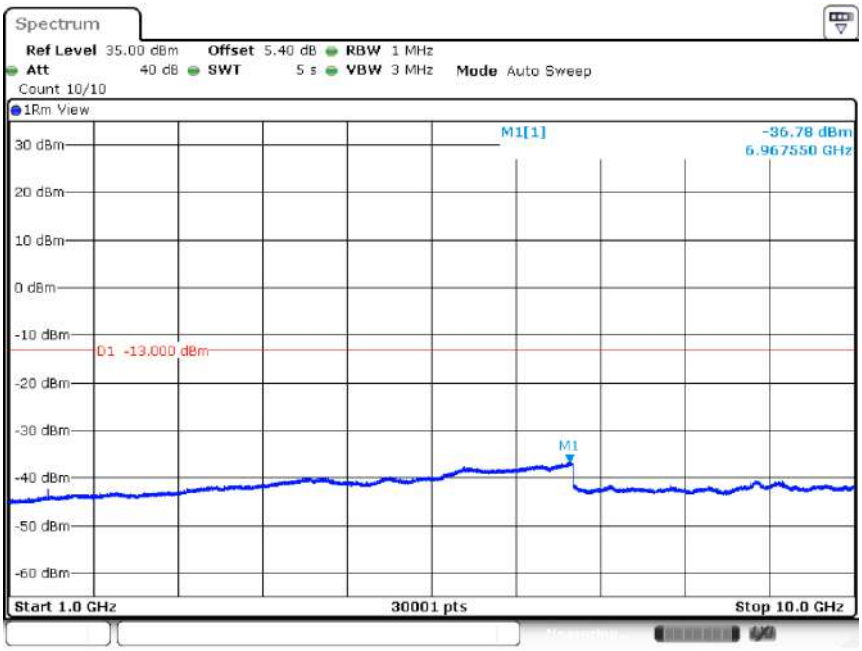
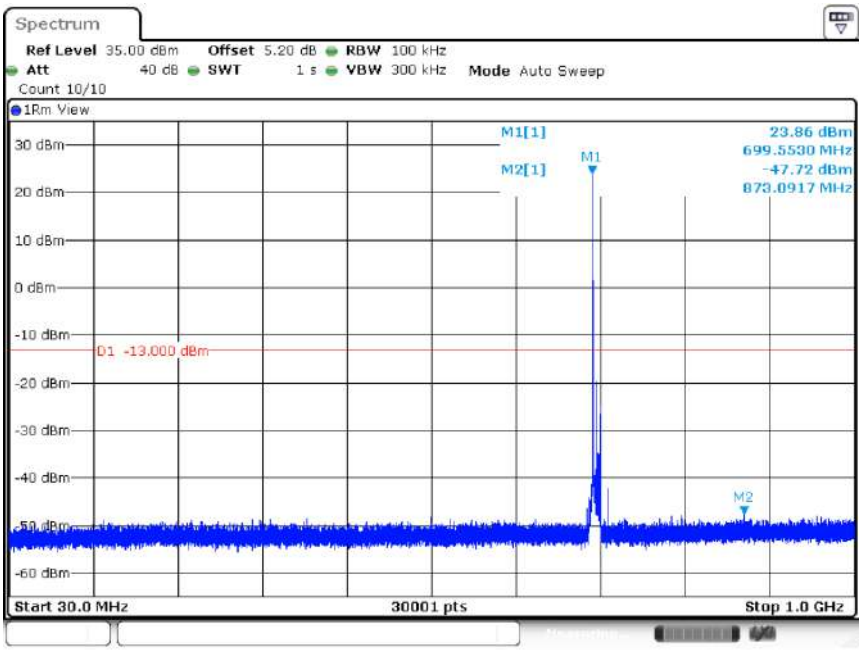
Band12-10MHz-QPSK-23130-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:56:00

Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



Date: 1 SEP.2020 09:00:31

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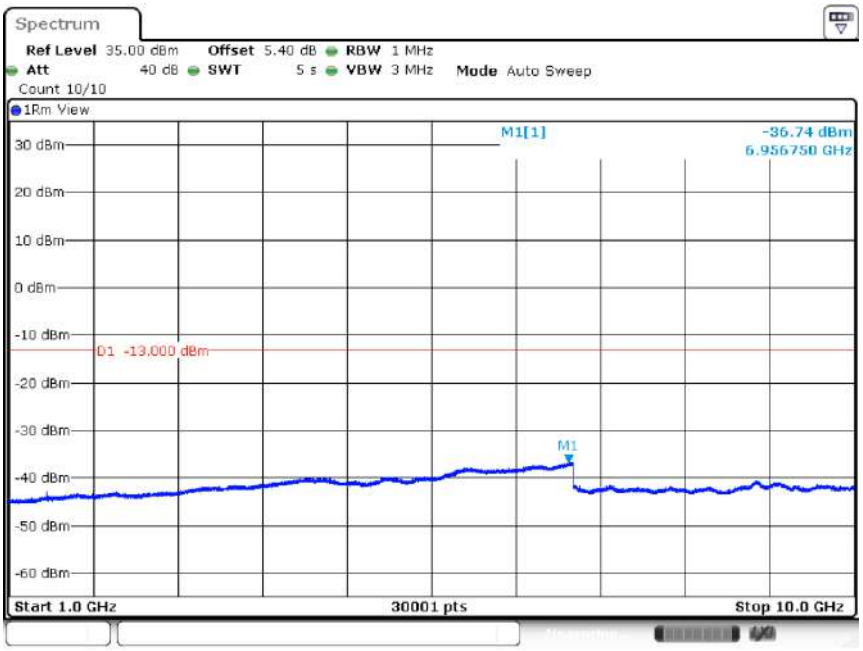
Band12-10MHz-16QAM-23060-1RB#0-Range1:1000~10000MHz



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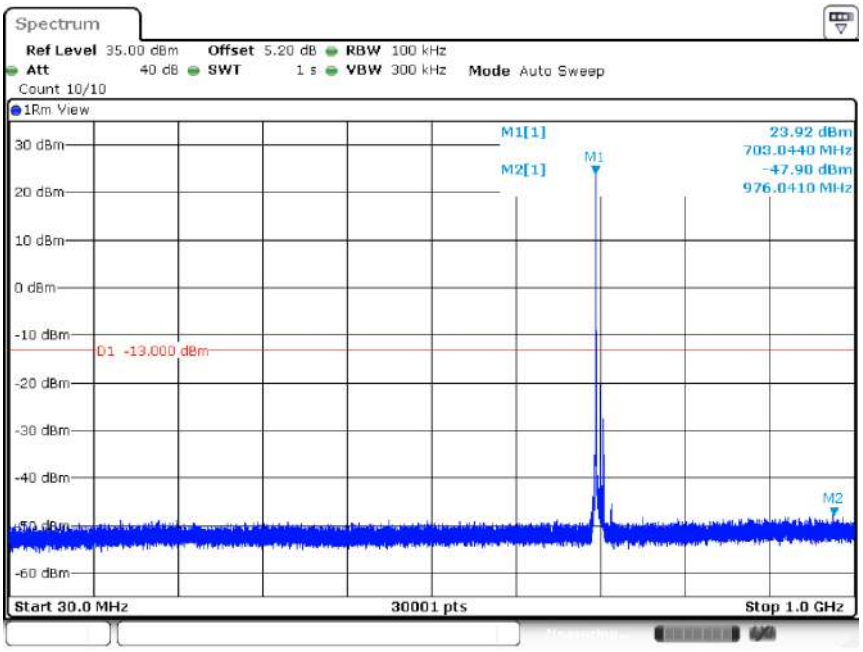
Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



Date: 1 SEP.2020 09:03:25

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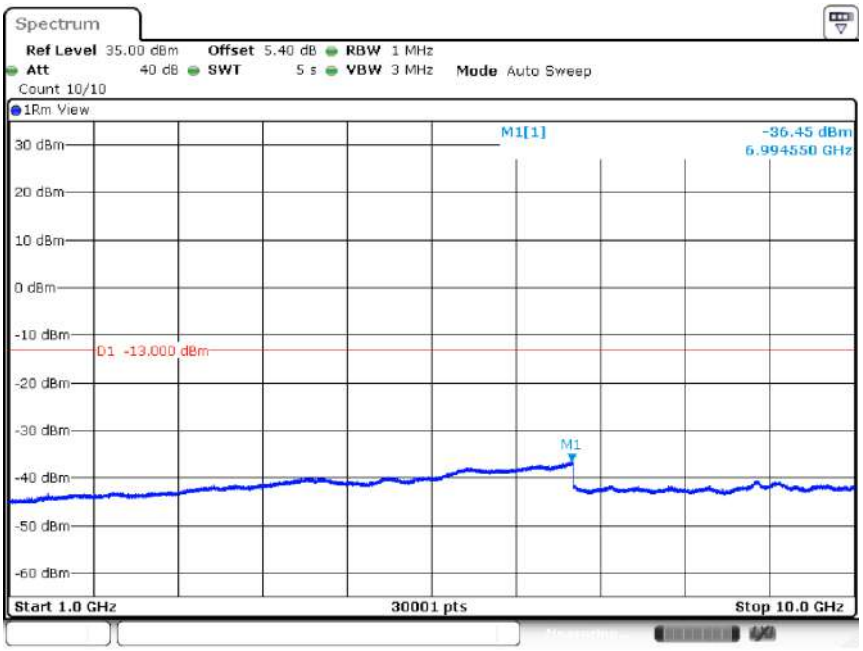
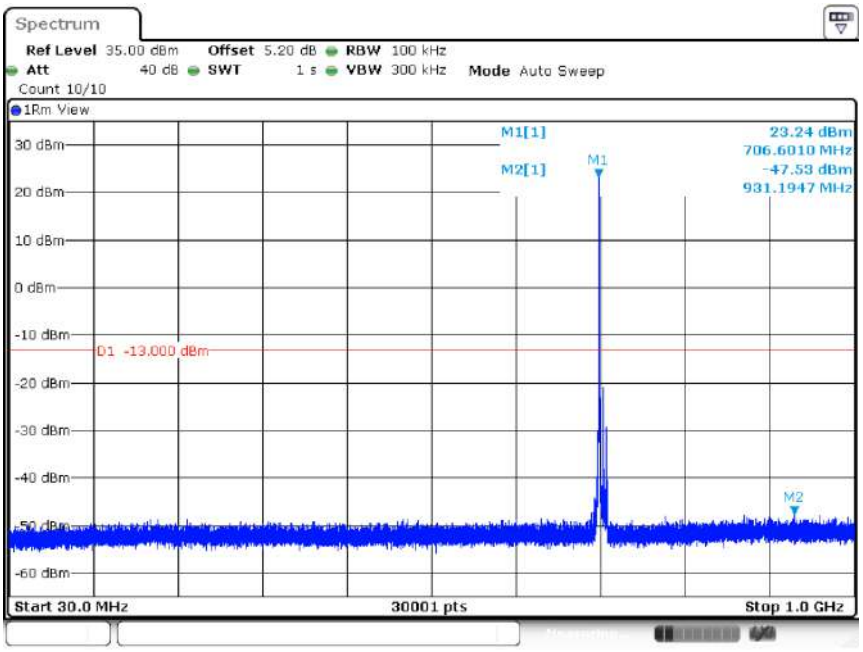
Band12-10MHz-16QAM-23095-1RB#0-Range1:1000~10000MHz



Date: 1 SEP.2020 21:54:49

Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



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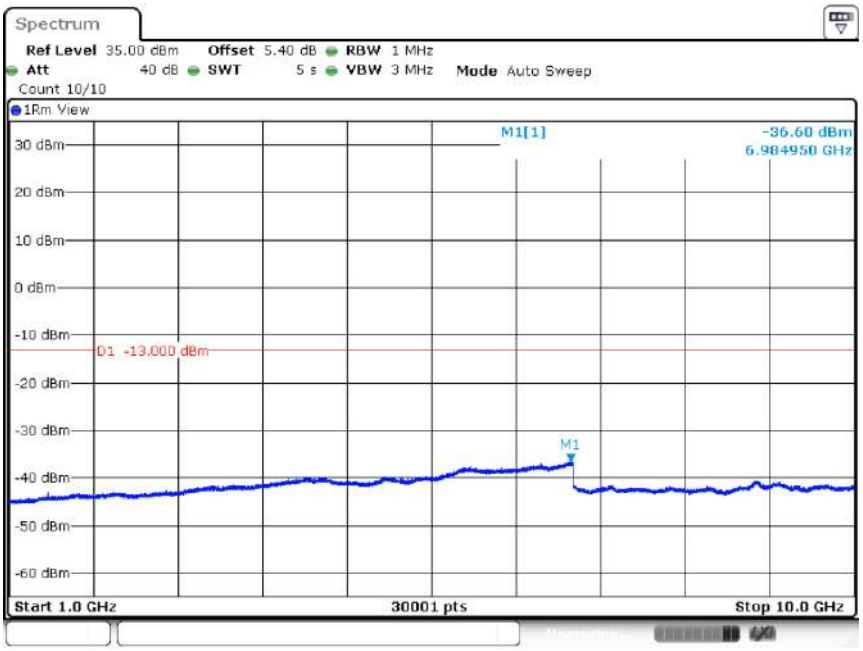

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
111.0961	-64.59	-13.00	51.59	258	208	Vertical
1398.8798	-52.21	-13.00	39.21	296	258	Vertical
2099.0198	-55.34	-13.00	42.34	241	19	Vertical
3000.0000	-55.60	-13.00	42.60	159	136	Vertical
4897.0759	-55.07	-13.00	42.07	196	162	Vertical
9812.3925	-52.52	-13.00	39.52	184	183	Vertical
44.0657	-63.65	-13.00	50.65	151	120	Horizontal
242.4406	-67.68	-13.00	54.68	231	210	Horizontal
1398.8798	-47.40	-13.00	34.40	252	303	Horizontal
2099.0198	-49.50	-13.00	36.50	219	226	Horizontal
3497.8599	-55.94	-13.00	42.94	321	258	Horizontal
4897.0759	-55.70	-13.00	42.70	262	353	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
115.3643	-65.19	-13.00	52.19	174	302	Vertical
1406.0812	-53.76	-13.00	40.76	185	263	Vertical
2109.4219	-46.86	-13.00	33.86	196	229	Vertical
3515.5006	-54.26	-13.00	41.26	231	228	Vertical
4921.4369	-55.67	-13.00	42.67	222	174	Vertical
9889.3956	-51.88	-13.00	38.88	291	128	Vertical
41.0101	-63.98	-13.00	50.98	208	139	Horizontal
238.0269	-67.96	-13.00	54.96	159	296	Horizontal
1406.0812	-47.32	-13.00	34.32	196	300	Horizontal
2109.4219	-39.70	-13.00	26.70	233	5	Horizontal
4921.7169	-57.13	-13.00	44.13	252	57	Horizontal
9305.8522	-52.50	-13.00	39.50	261	351	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.5440	-64.51	-13.00	51.51	196	109	Vertical
1412.8826	-53.26	-13.00	40.26	185	256	Vertical
2119.8240	-46.82	-13.00	33.82	174	164	Vertical
3532.8613	-57.68	-13.00	44.68	255	229	Vertical
4946.0778	-57.96	-13.00	44.96	264	184	Vertical
9886.0354	-52.45	-13.00	39.45	154	336	Vertical
39.5550	-64.31	-13.00	51.31	258	53	Horizontal
248.8914	-68.09	-13.00	55.09	159	28	Horizontal
1412.8826	-47.25	-13.00	34.25	196	328	Horizontal
2119.8240	-40.70	-13.00	27.70	231	23	Horizontal
3000.0000	-55.75	-13.00	42.75	262	276	Horizontal
9319.5728	-53.12	-13.00	40.12	248	28	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 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 displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	0.10	0.000142	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-1.50	-0.002120	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-3.20	-0.004501	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	1.20	0.001705	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	0.70	0.000994	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	0.20	0.000283	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-1.50	-0.002120	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-2.60	-0.003657	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-1.60	-0.002250	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-1.00	-0.001406	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	0.40	0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-1.60	-0.002273	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	1.10	0.001563	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	0.30	0.000426	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	0.50	0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-0.50	-0.000710	±2.5	PASS

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Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.30	-0.001837	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.00	-0.001413	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.60	0.000848	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.00	-0.001413	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-2.90	-0.004079	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-2.20	-0.003094	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.80	-0.003938	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.00	-0.004219	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	0.30	0.000426	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	0.20	0.000284	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-0.60	-0.000852	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-1.90	-0.002686	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-1.50	-0.002120	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-1.10	-0.001555	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-2.20	-0.003094	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-1.90	-0.002672	±2.5	PASS

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Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-2.70	-0.003797	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-2.50	-0.003516	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-1.20	-0.001688	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-0.90	-0.001266	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-2.50	-0.003516	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-0.50	-0.000703	±2.5	PASS

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