

Appendix B

E-UTRA Band 17

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1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.94	18.88	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.84	18.78	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.82	18.76	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.10	18.04	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.06	18.00	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.13	18.07	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.05	17.99	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.88	18.82	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.93	18.87	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.94	18.88	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.85	17.79	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.09	18.03	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.13	18.07	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.98	17.92	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.07	19.01	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.78	18.72	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.90	18.84	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.17	18.11	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.02	17.96	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.96	17.90	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.97	17.91	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.19	18.13	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.16	18.10	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.47	17.41	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.93	16.87	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.91	16.85	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.92	16.86	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.09	17.03	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.99	17.93	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.76	17.70	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.71	17.65	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.86	16.80	34.77	PASS

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Band17	5MHz	16QAM	23790	12RB#6	21.15	17.09	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.07	17.01	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.10	17.04	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.87	17.81	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.71	17.65	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.84	17.78	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.10	17.04	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.86	16.80	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.84	16.78	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.94	16.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.94	16.88	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	20.81	16.75	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.72	16.66	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.07	16.01	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.00	15.94	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.12	16.06	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.01	15.95	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.87	16.81	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.93	16.87	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.84	16.78	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	19.79	15.73	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.00	15.94	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.06	16.00	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.93	15.87	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.00	16.94	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	20.74	16.68	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.88	16.82	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.07	16.01	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	19.95	15.89	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	19.96	15.90	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.94	15.88	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.11	19.05	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.23	19.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.40	19.34	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.13	18.07	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.26	18.20	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.38	18.32	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.32	18.26	34.77	PASS

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Band17	10MHz	QPSK	23790	1RB#0	22.81	18.75	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.14	19.08	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.20	19.14	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.17	18.11	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.20	18.14	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.31	18.25	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.27	18.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.85	18.79	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.20	19.14	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.00	18.94	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.15	18.09	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.26	18.20	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.12	18.06	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.14	18.08	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.59	17.53	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.31	18.25	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.05	17.99	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.42	17.36	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.36	17.30	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.45	17.39	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.35	17.29	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.85	17.79	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.17	18.11	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.89	17.83	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.16	17.10	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.16	17.10	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.14	17.08	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.17	17.11	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.59	17.53	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.25	18.19	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.79	17.73	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.23	17.17	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.26	17.20	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.22	17.16	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.26	17.20	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.02	16.96	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.16	17.10	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.32	17.26	34.77	PASS

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Band17	10MHz	64QAM	23780	25RB#0	20.09	16.03	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.17	16.11	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.29	16.23	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.22	16.16	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.73	16.67	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.13	17.07	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.12	17.06	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.17	16.11	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.13	16.07	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.28	16.22	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.22	16.16	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.80	16.74	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.12	17.06	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.91	16.85	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.08	16.02	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.26	16.20	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.10	16.04	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.07	16.01	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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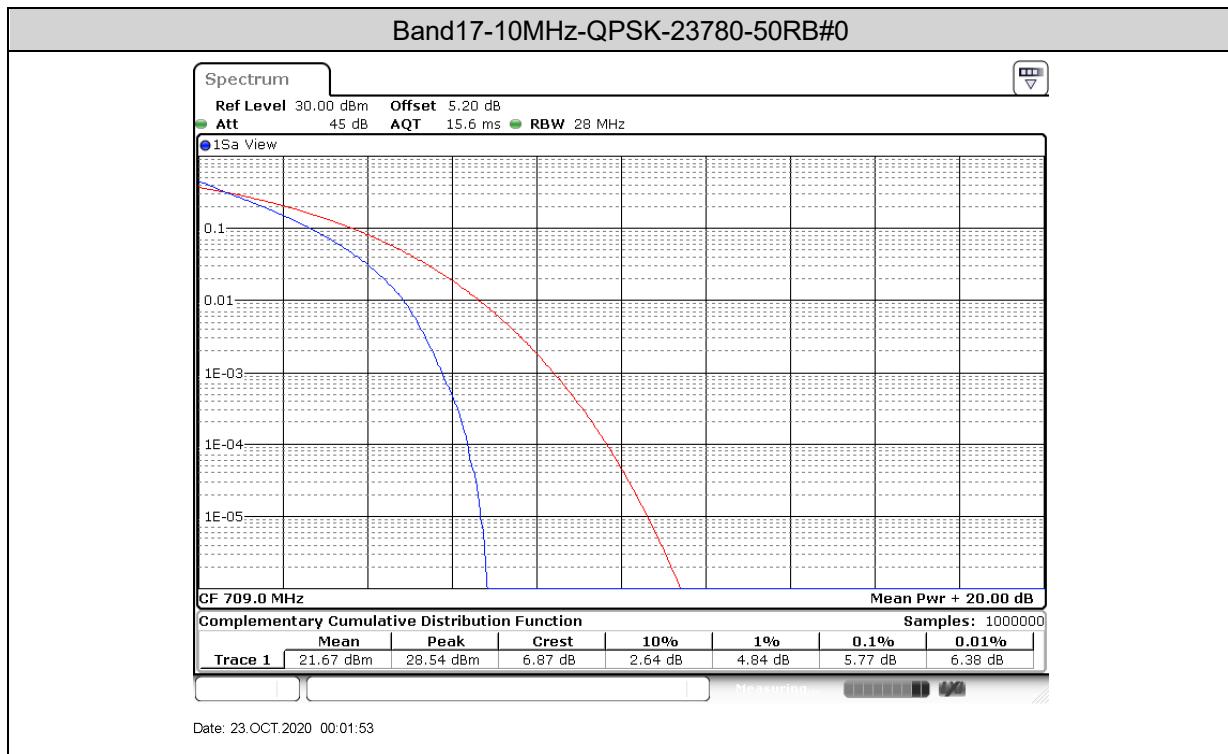
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2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.77	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.74	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.71	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.58	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.58	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	7.25	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	7.25	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	7.19	13	PASS

2.2 Test Plots

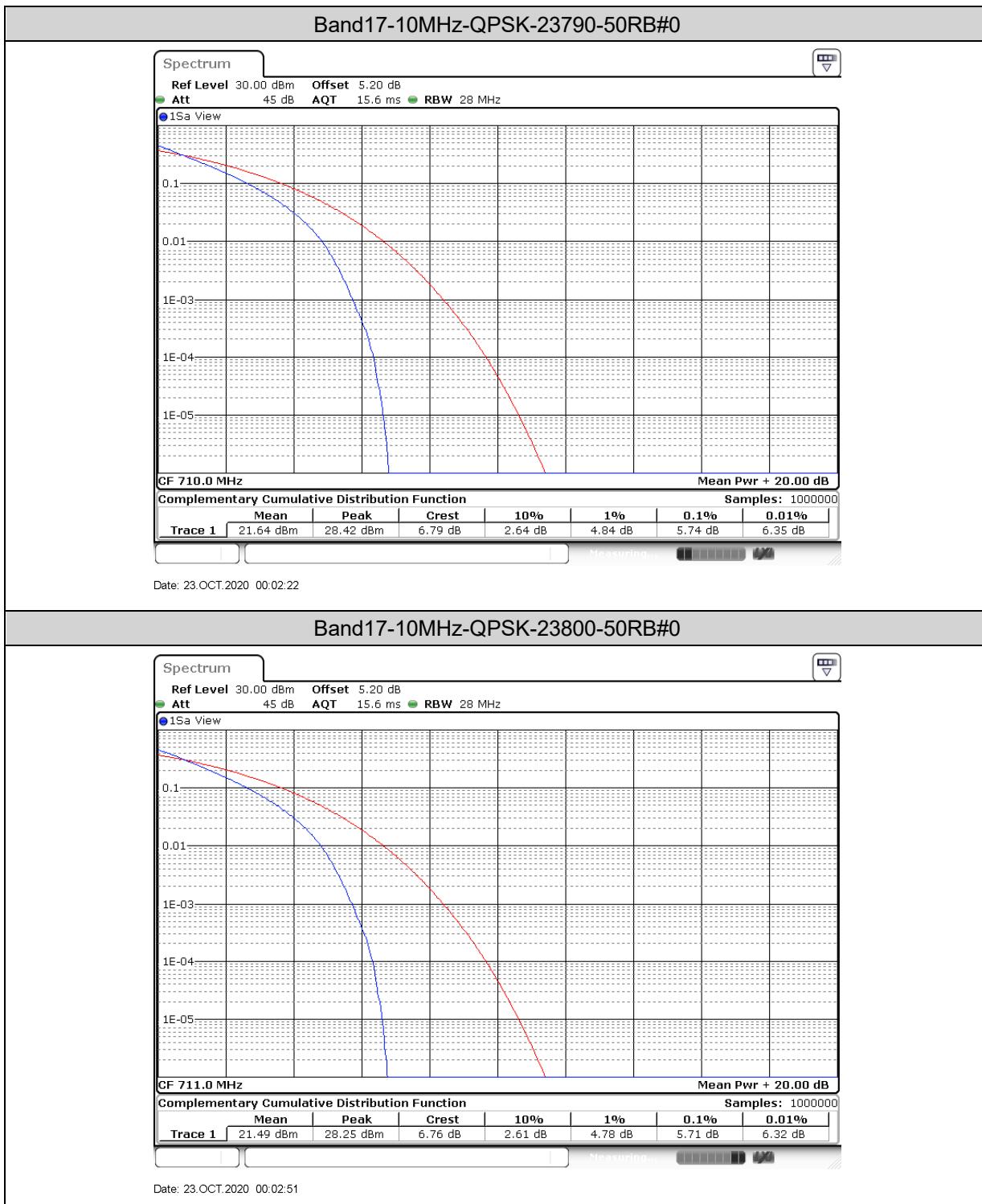


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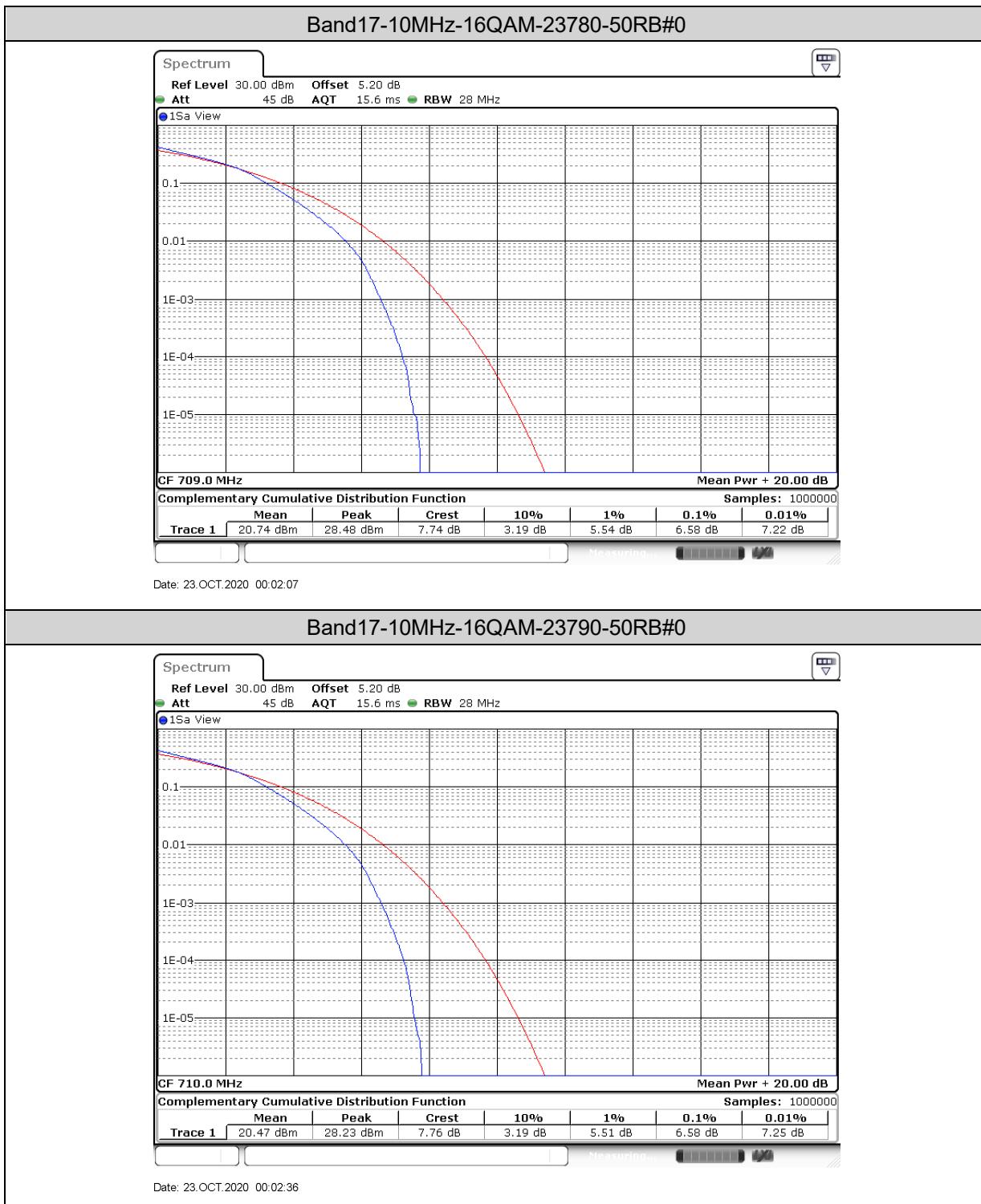


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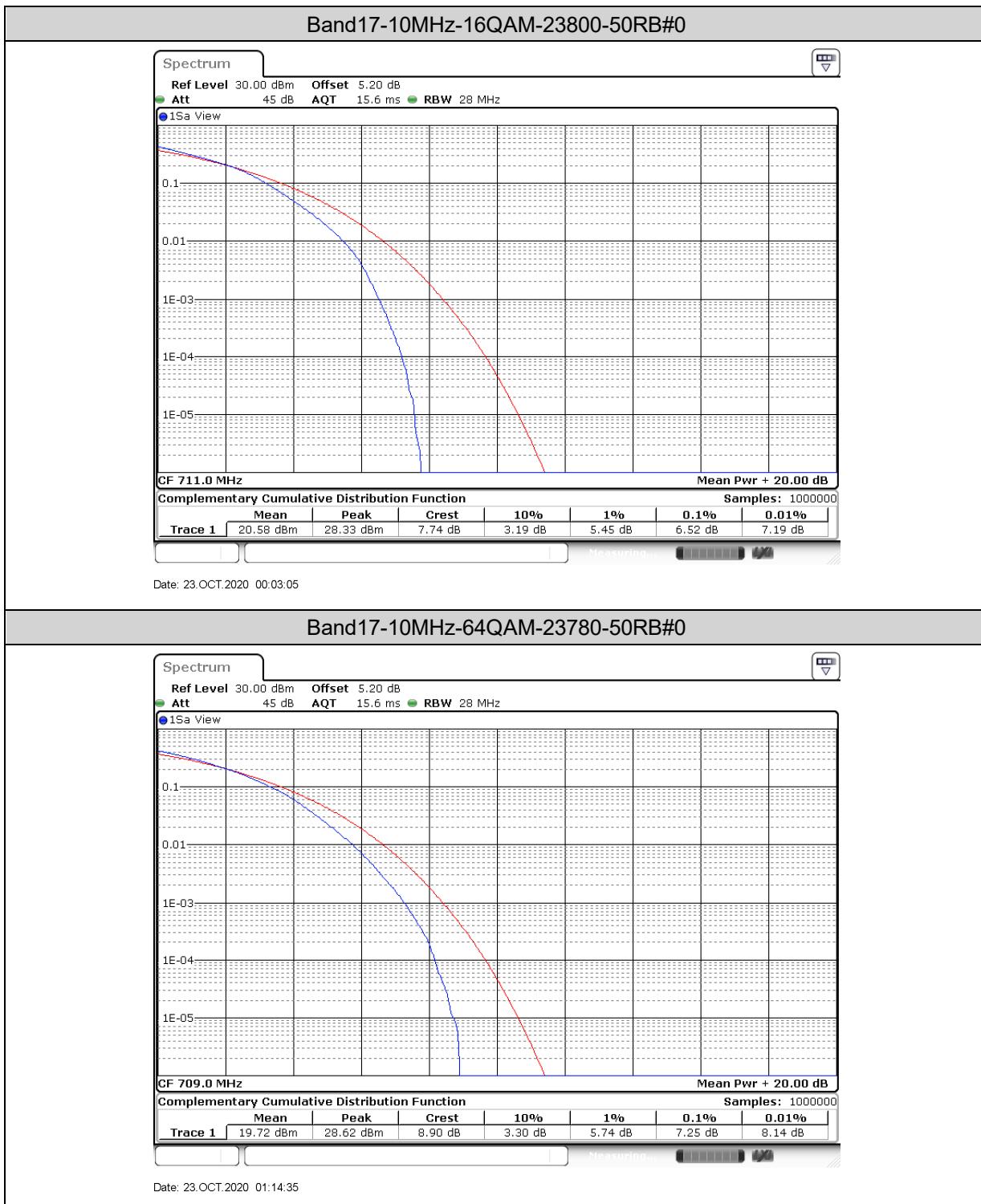
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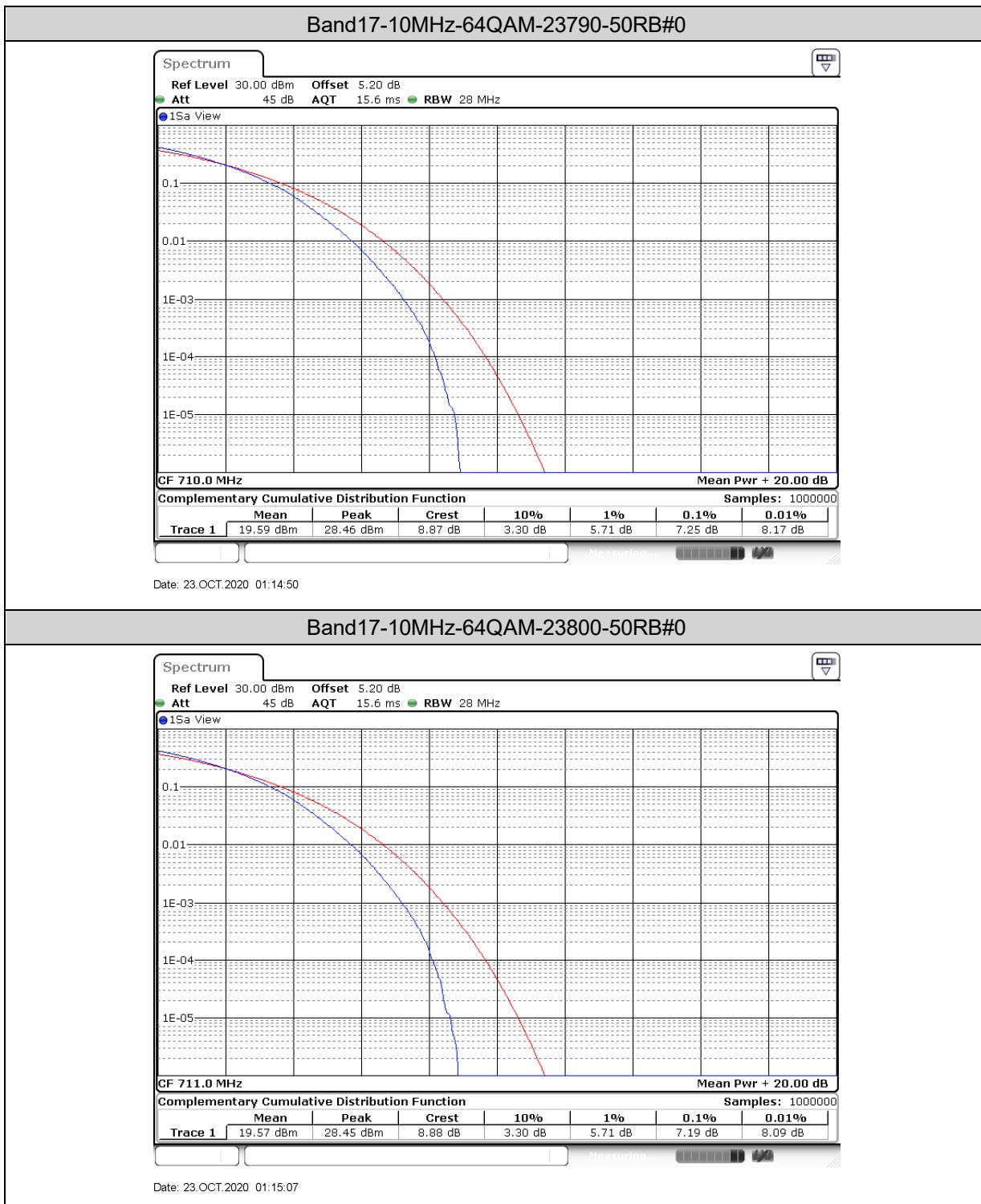


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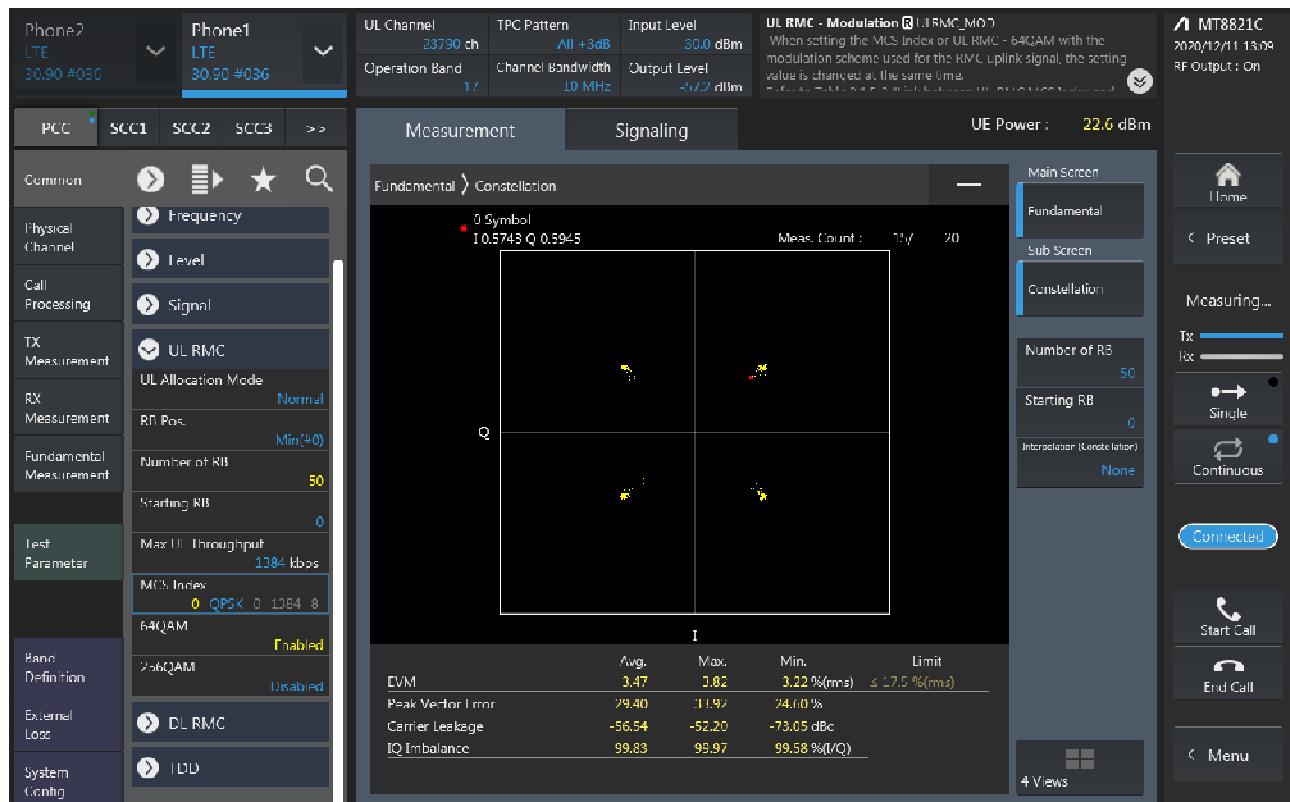
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3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 10MHz

3.1.1 Test Channel = MCH



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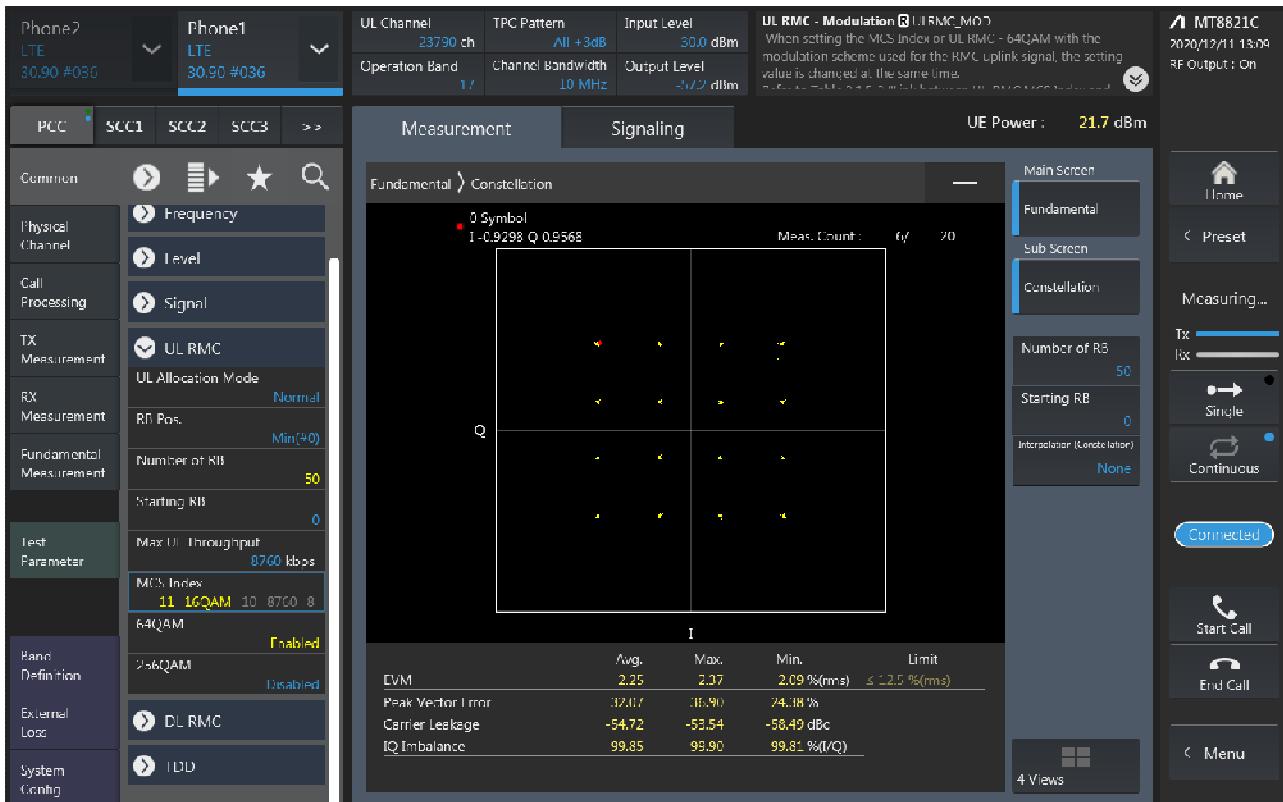


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3.2 Test Mode = LTE /TM2 10MHz

3.2.1 Test Channel = MCH

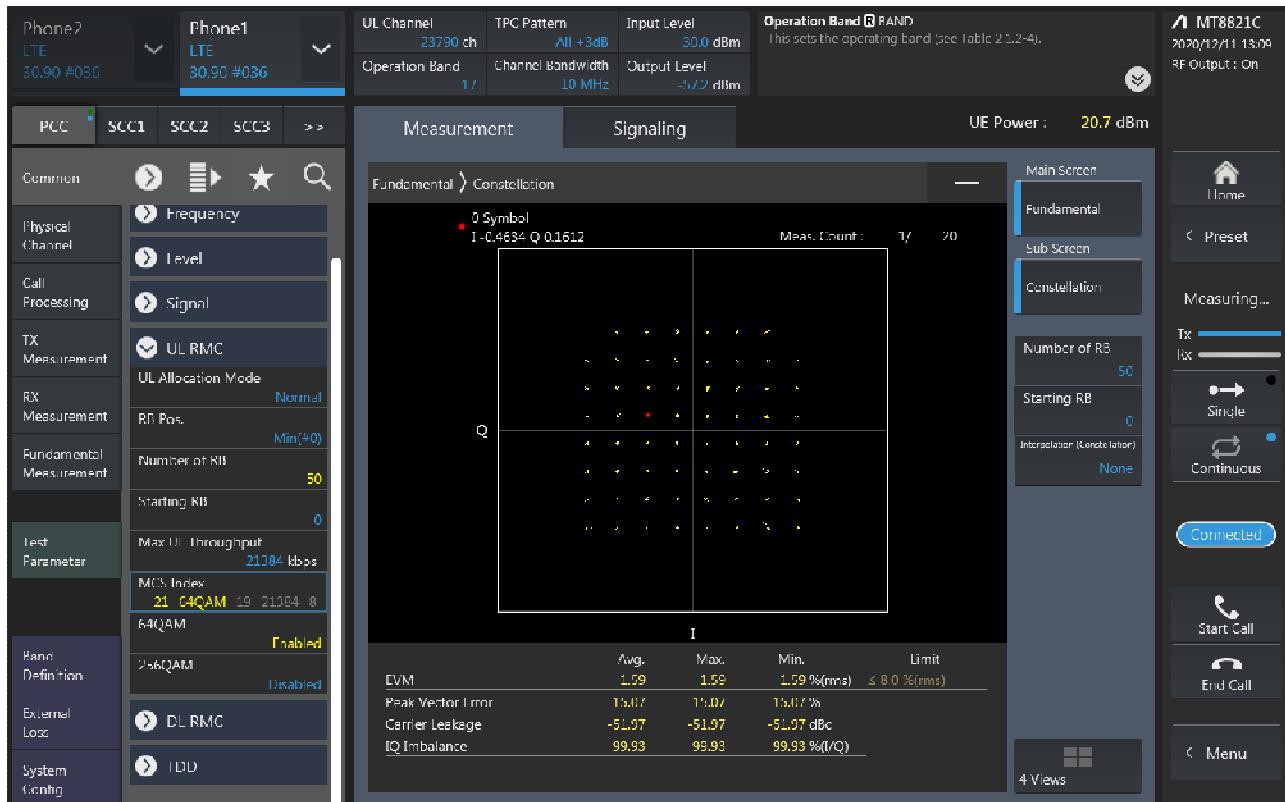


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3.3 Test Mode = LTE /TM3 10MHz

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
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.930	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.960	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.920	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.496	4.940	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.496	4.980	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.940	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.970	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.486	4.960	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.920	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.918	9.800	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.918	9.767	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.918	9.800	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.918	9.800	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.918	9.833	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.918	9.833	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.952	9.767	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.952	9.767	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.918	9.733	PASS

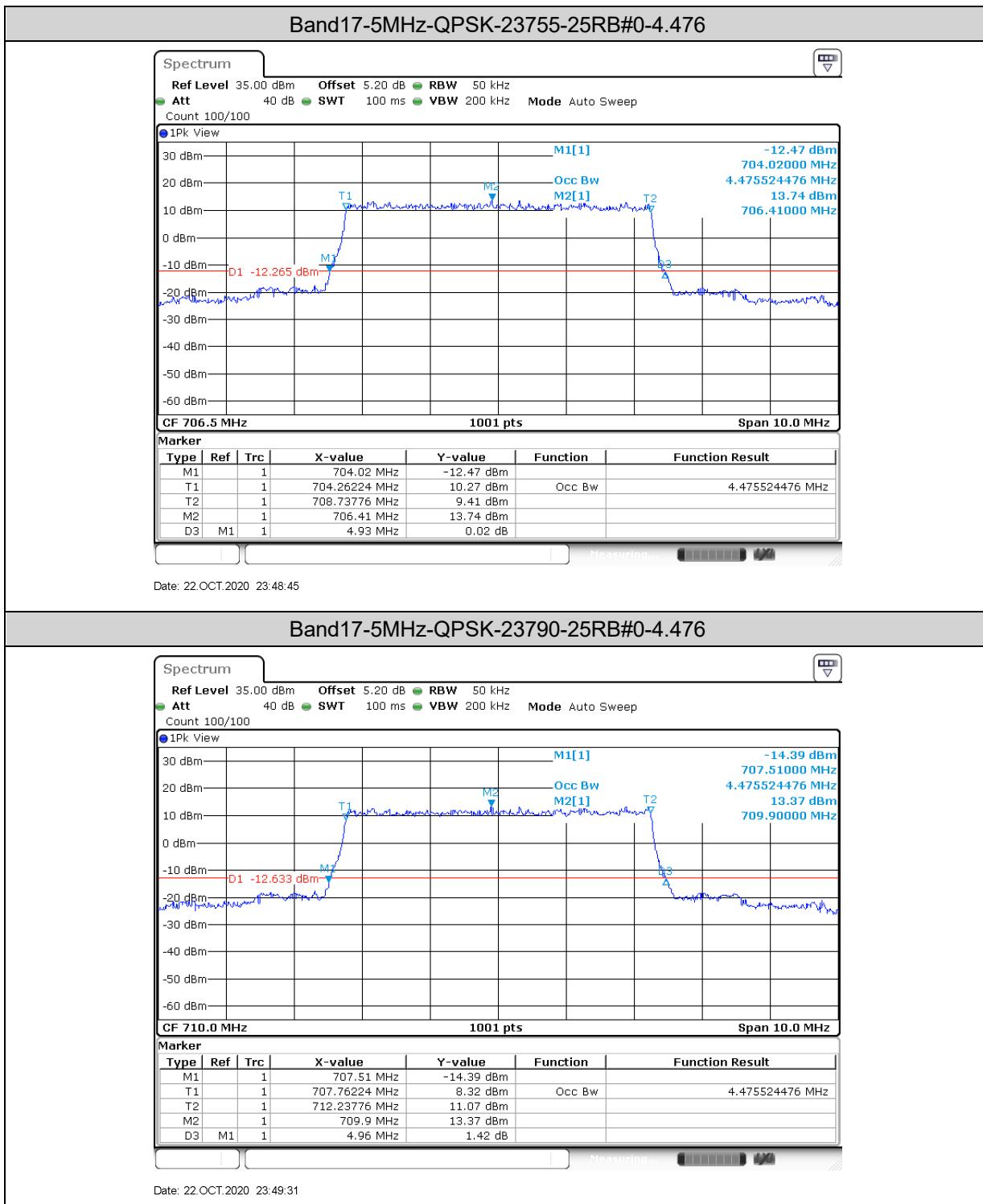
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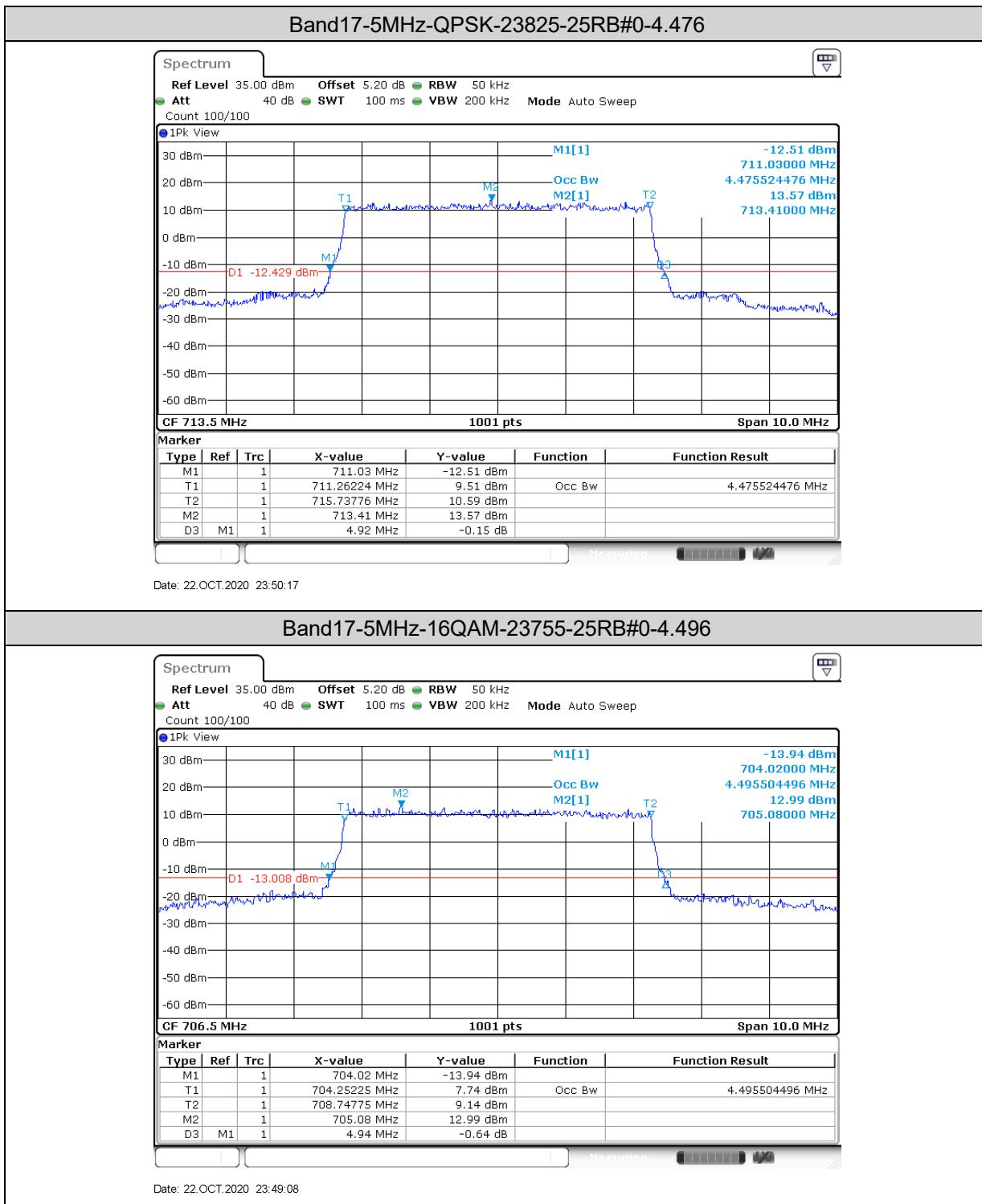
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4.2 Test Plots



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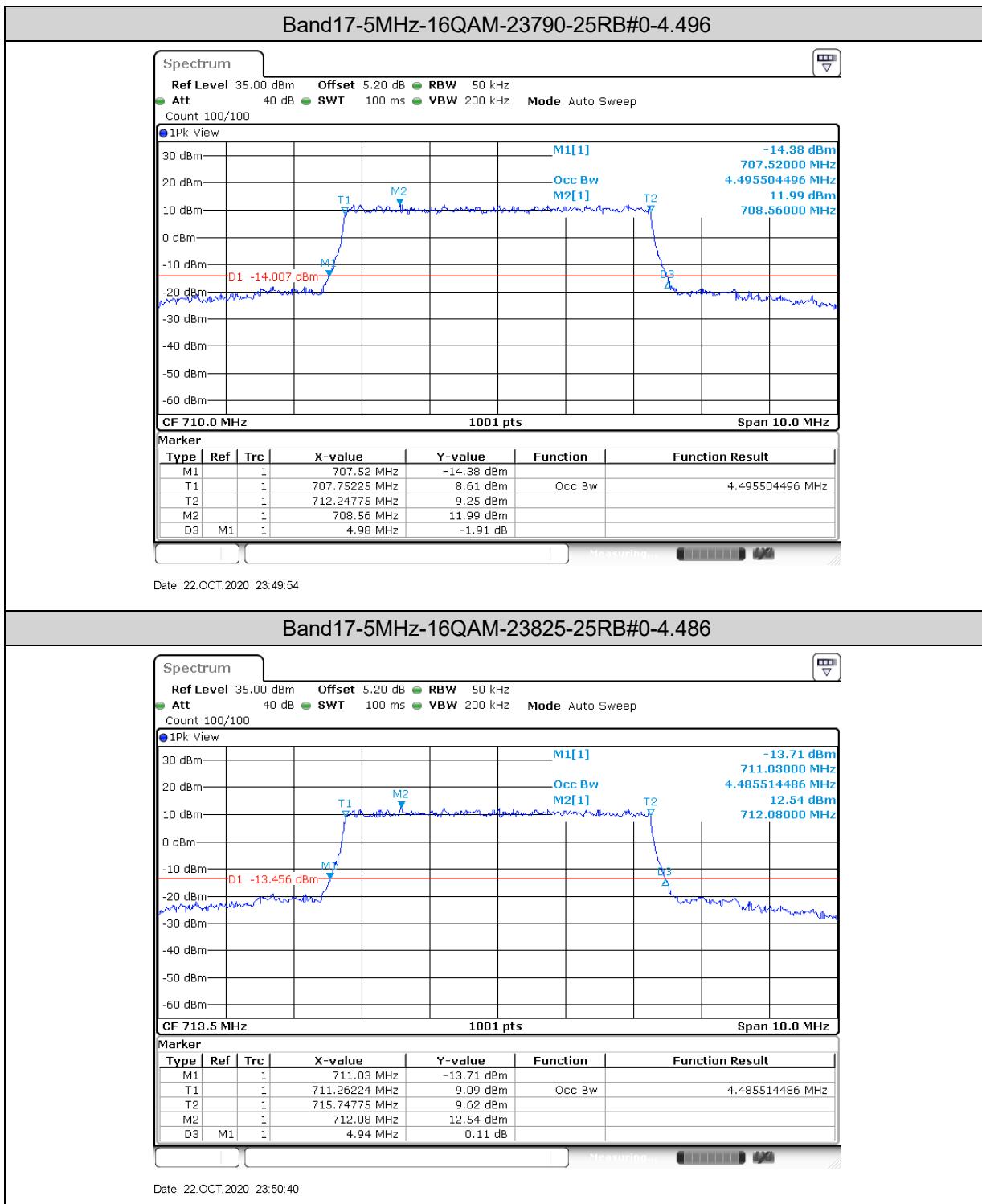


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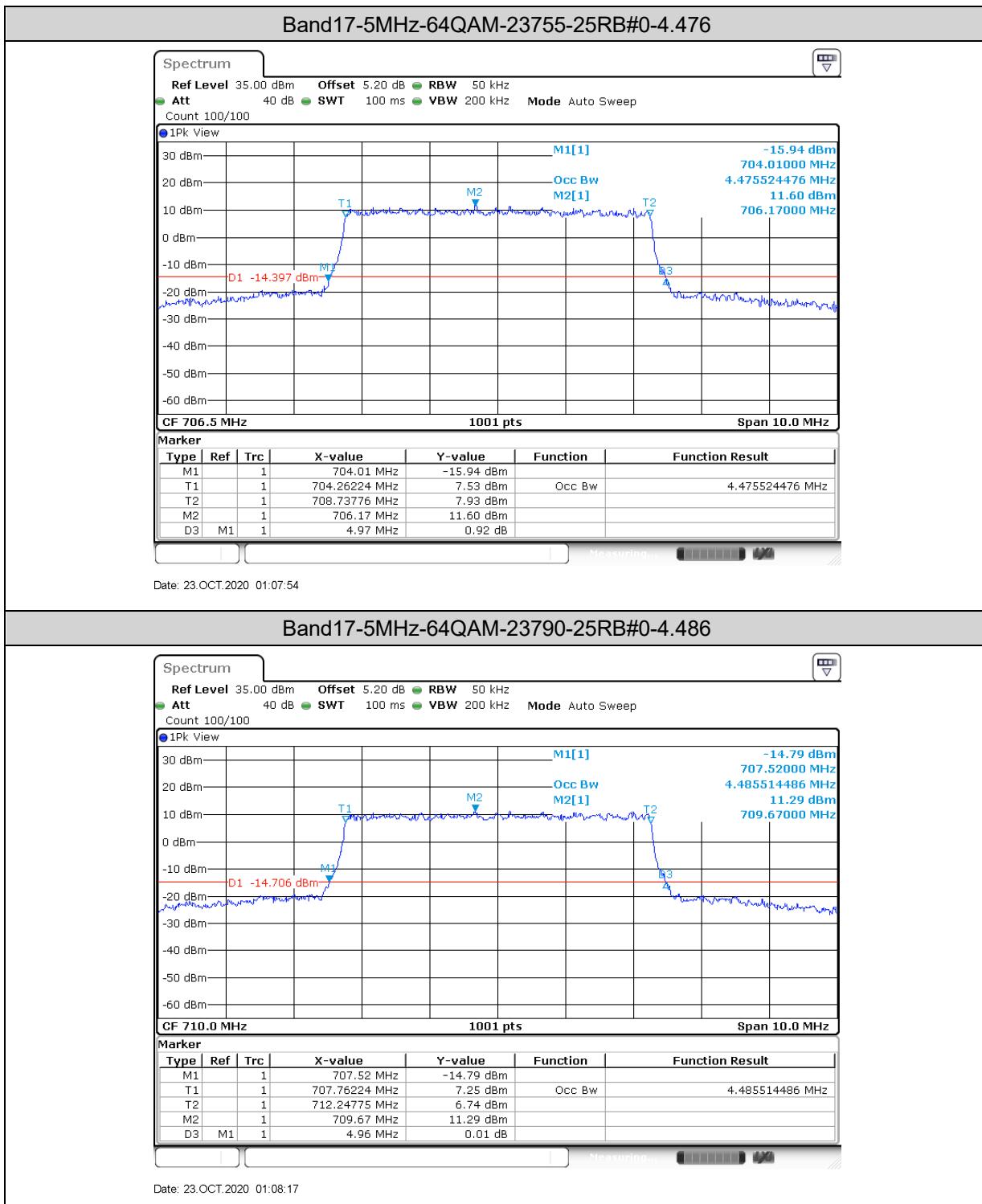
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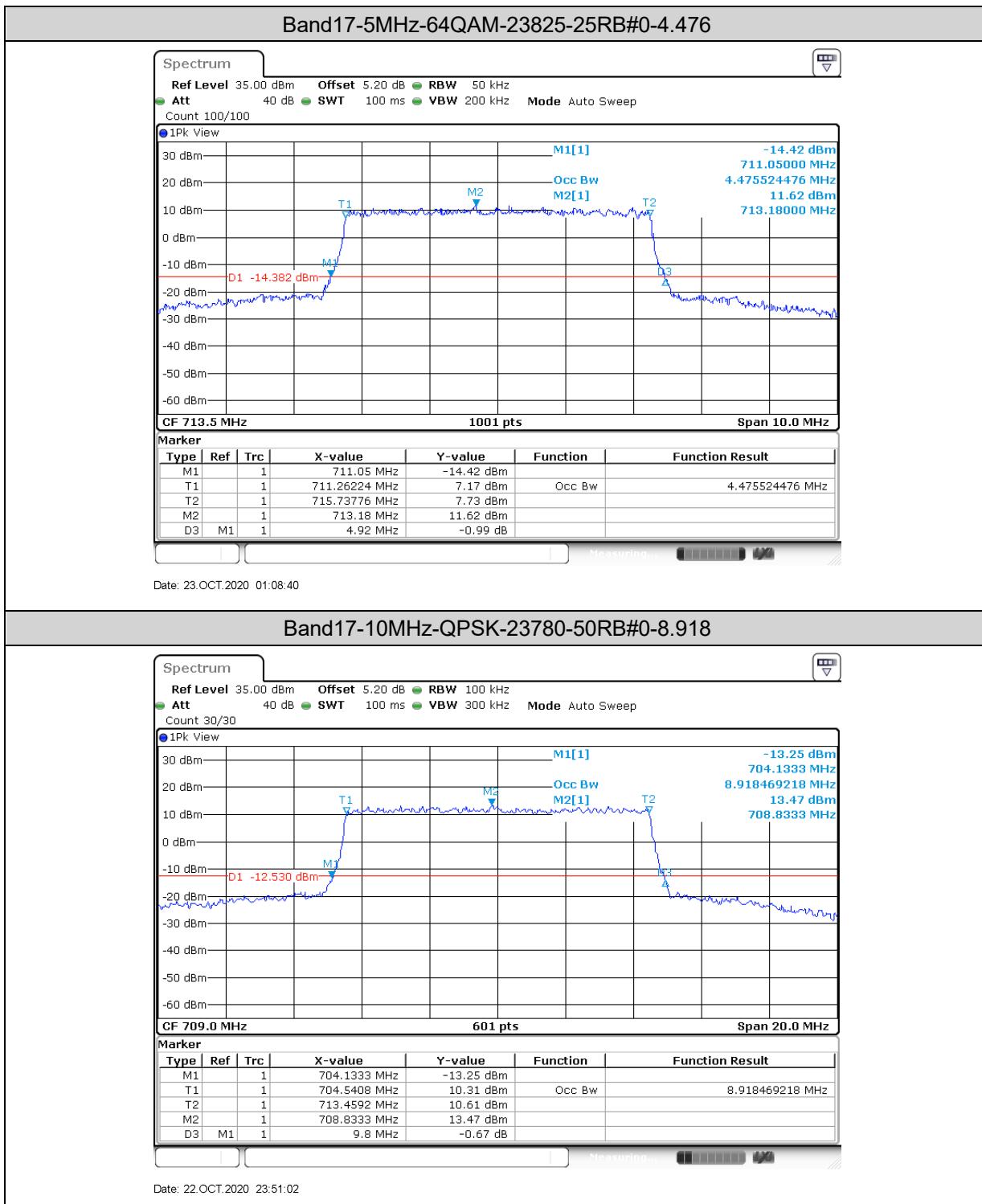
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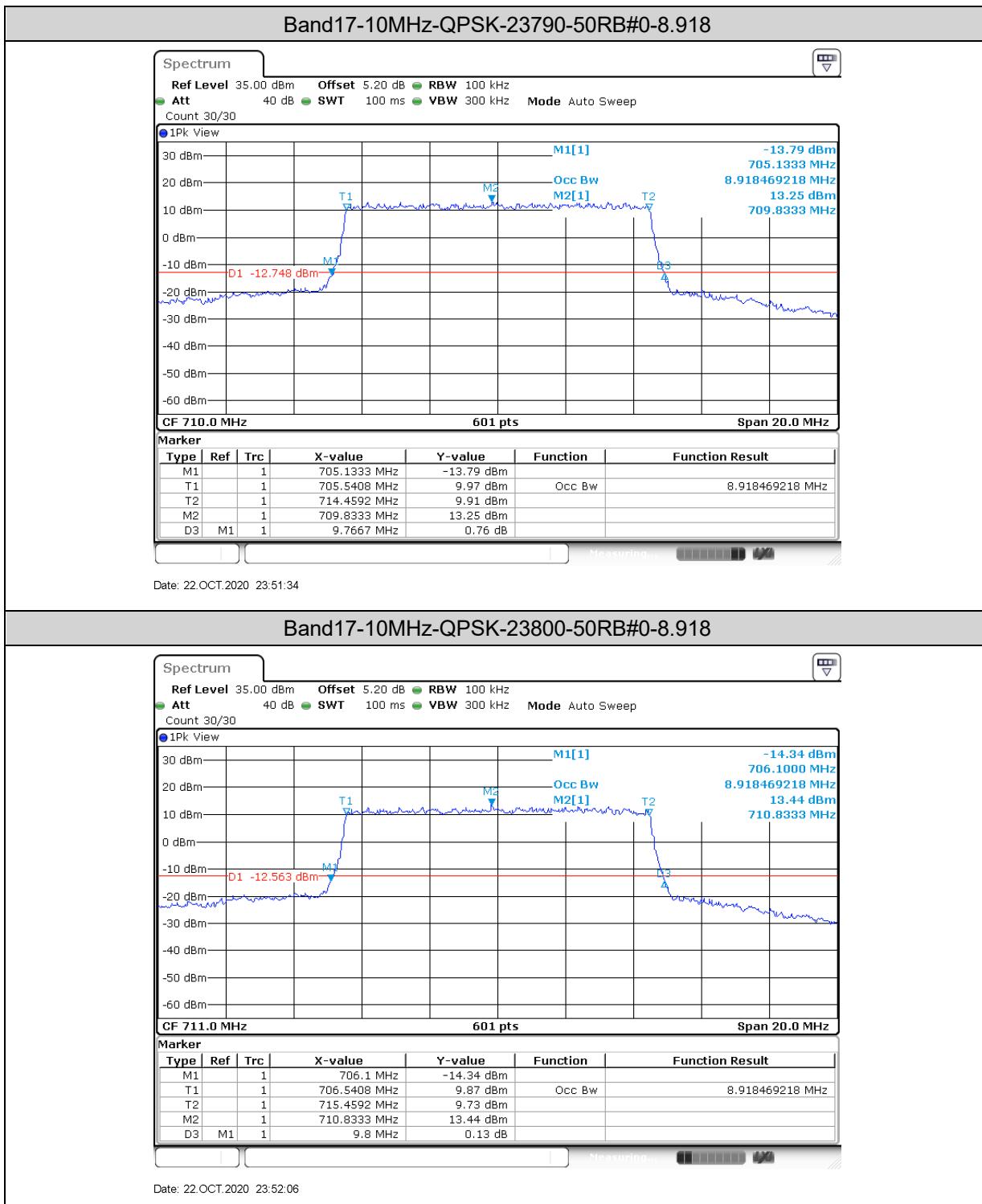


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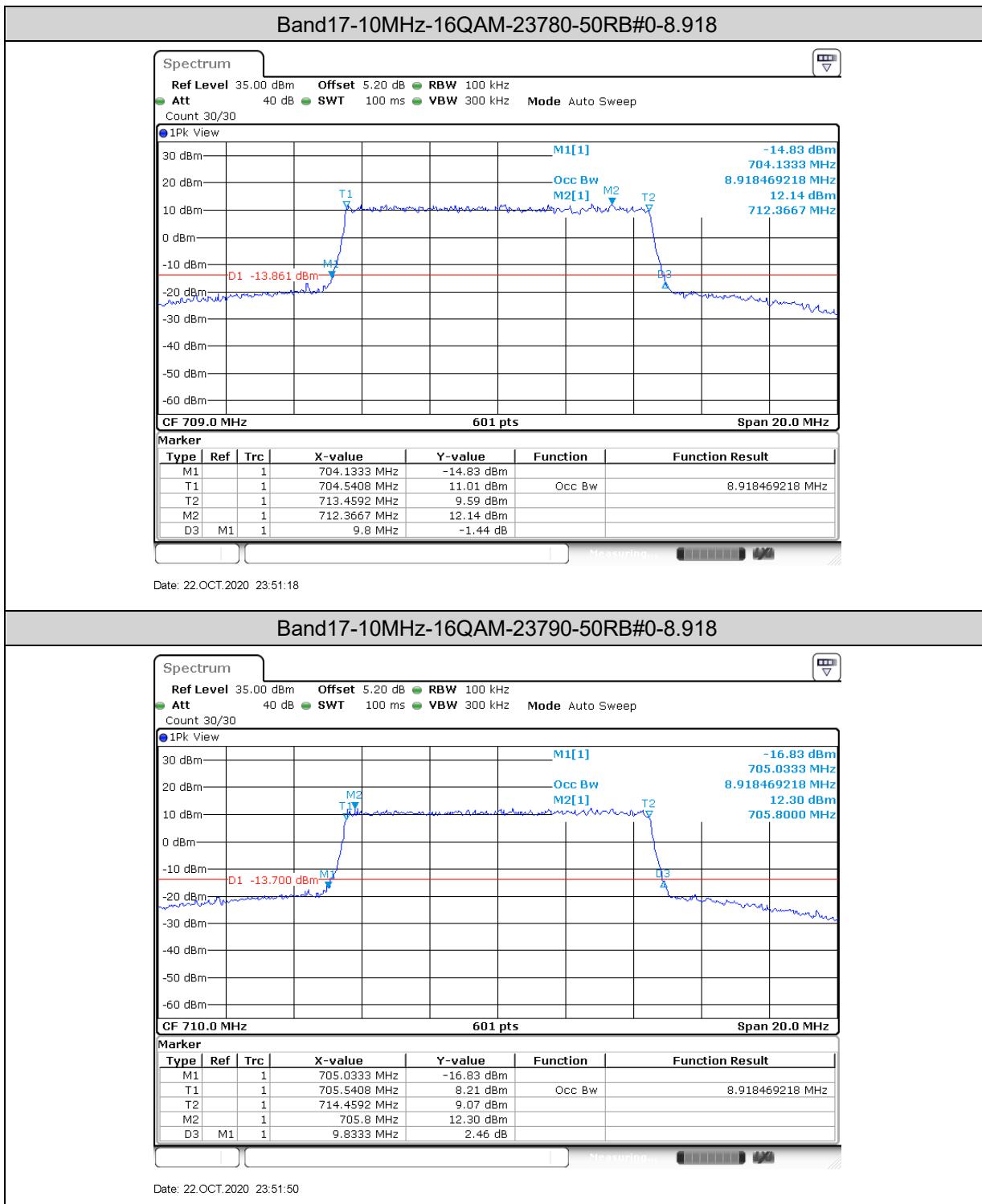


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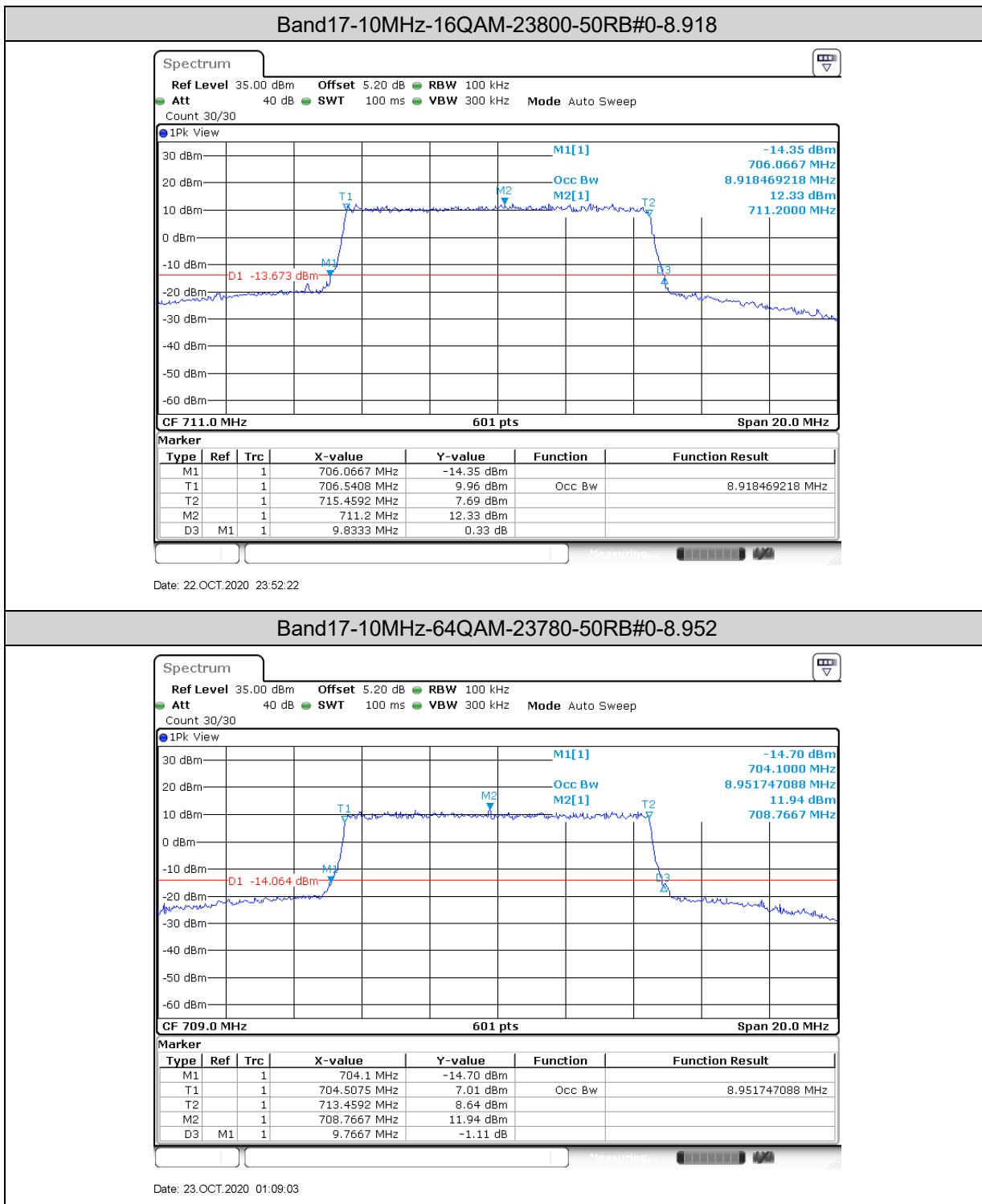


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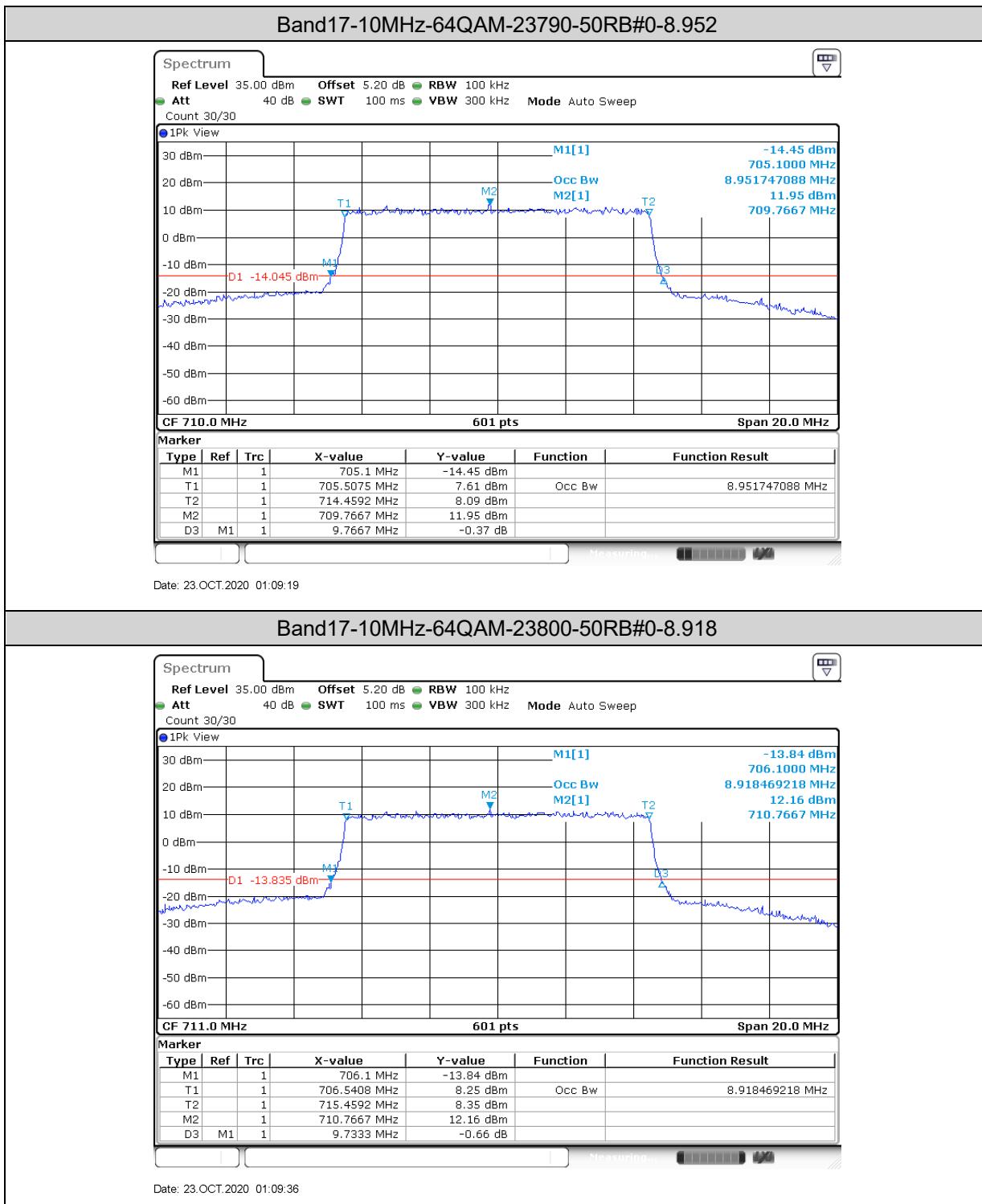
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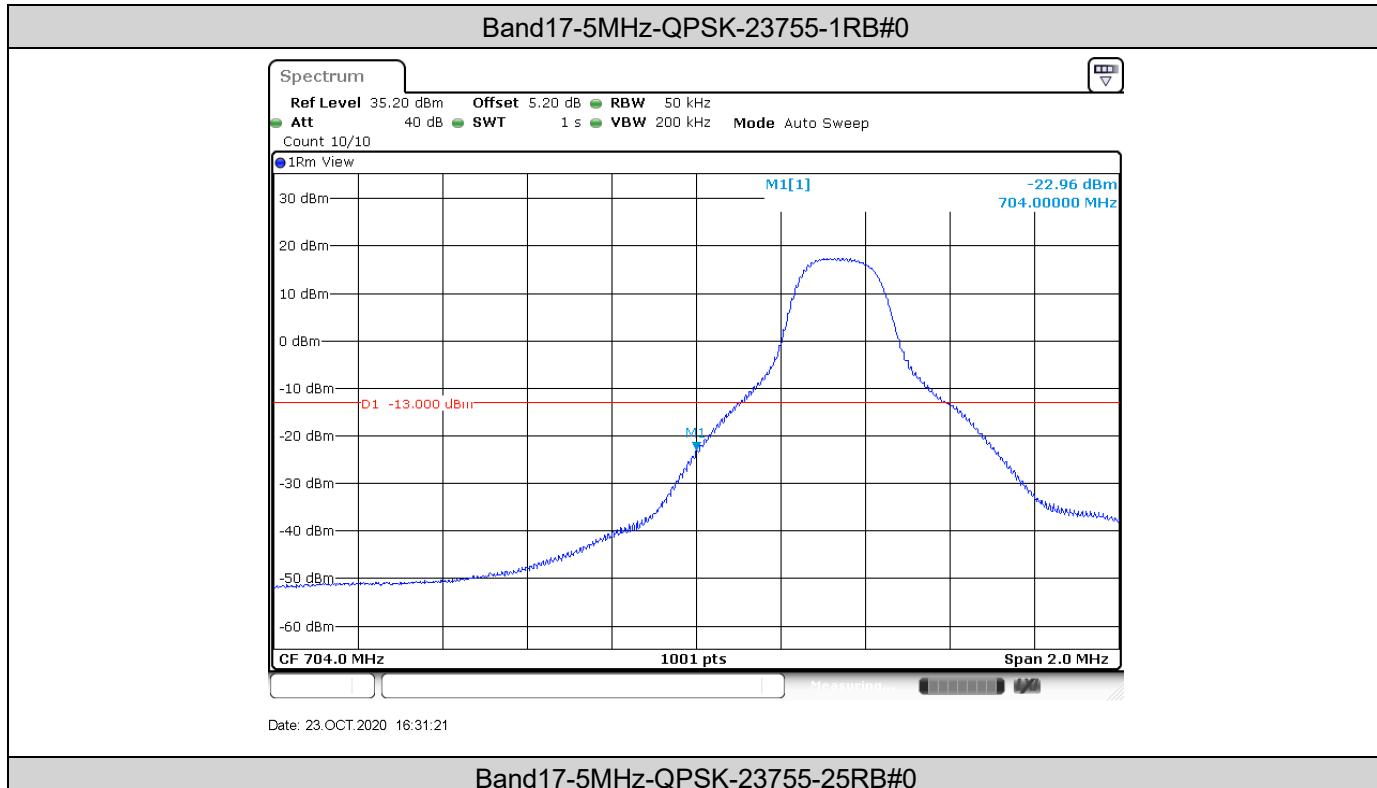
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5 Band Edge Compliance

5.1 Test Plots



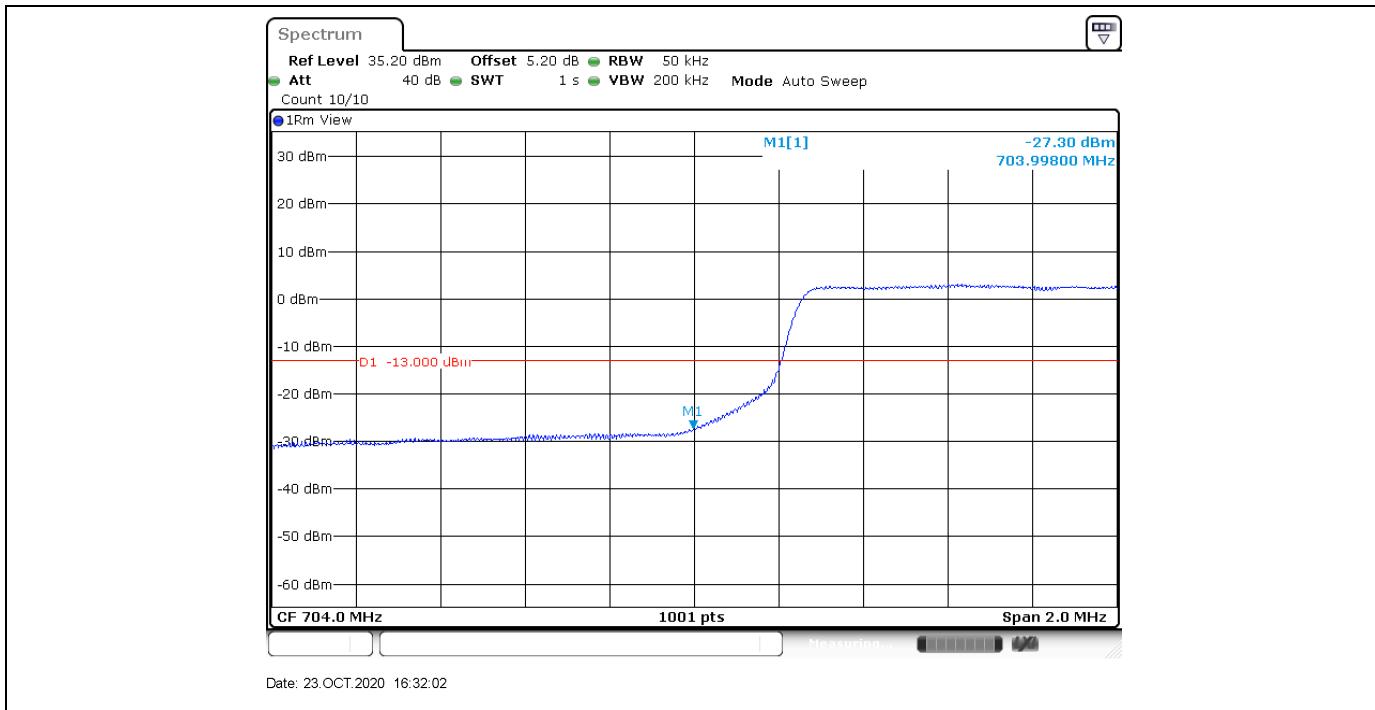
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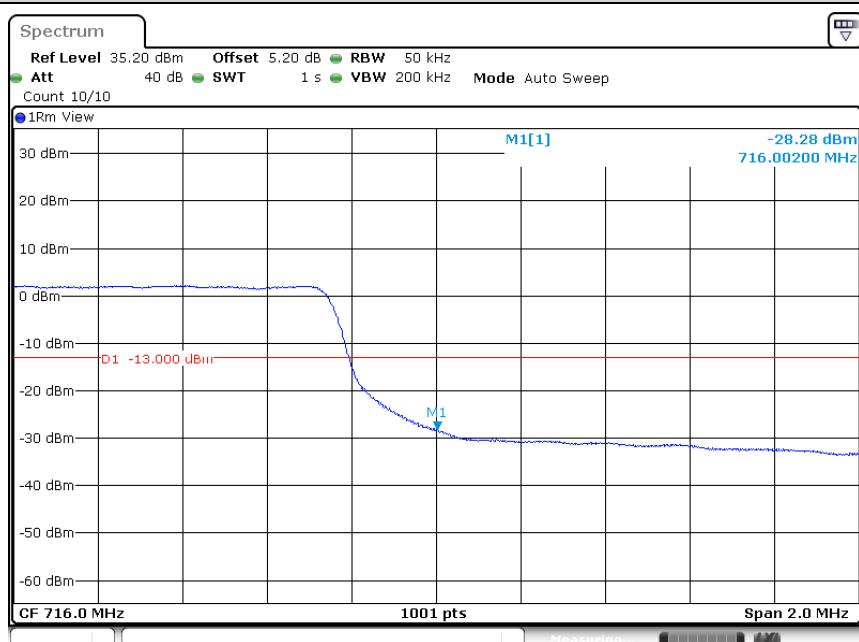
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Band17-5MHz-QPSK-23825-1RB#24



Date: 23.OCT.2020 16:32:48

Band17-5MHz-QPSK-23825-25RB#0



Date: 23.OCT.2020 16:33:29

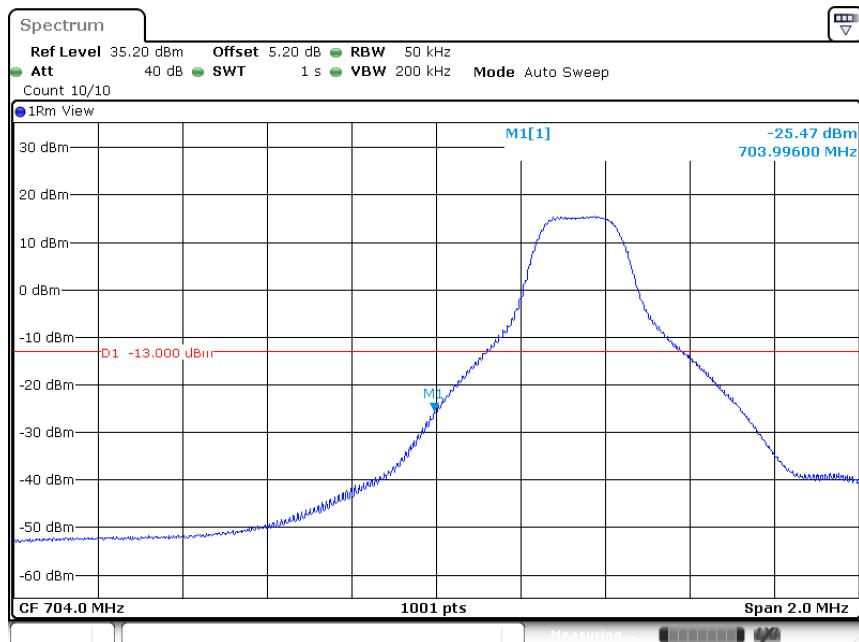
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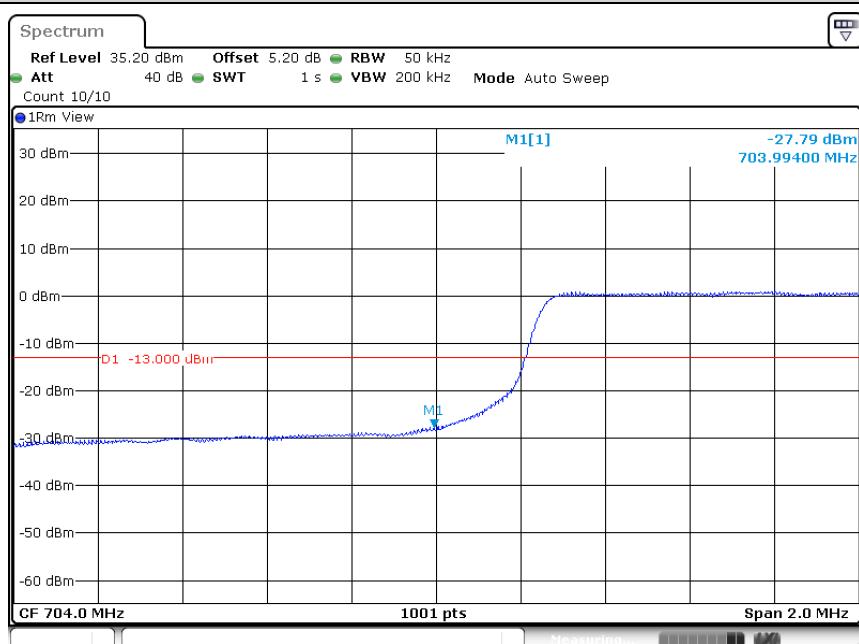
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Band17-5MHz-64QAM-23755-1RB#0



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Band17-5MHz-64QAM-23755-25RB#0



Date: 23.OCT.2020 16:54:29

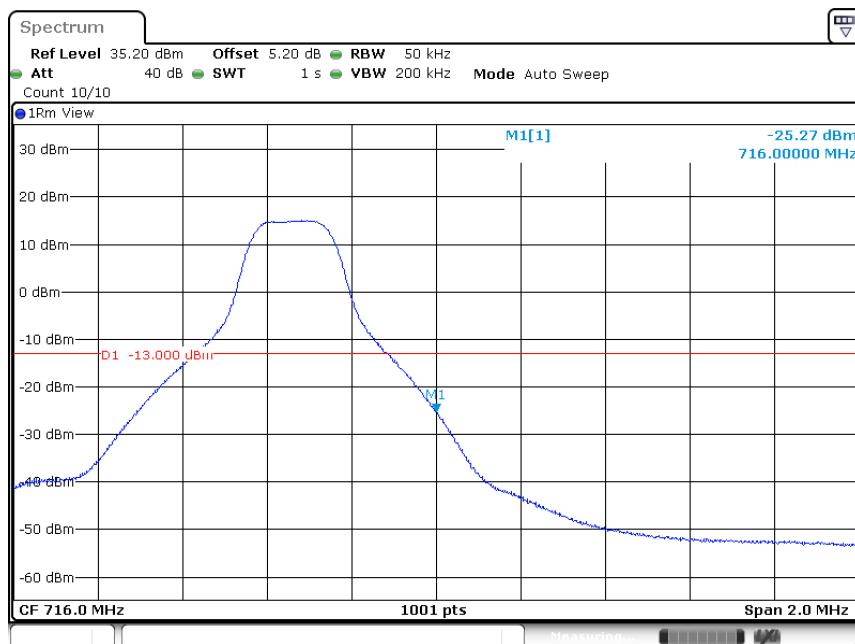
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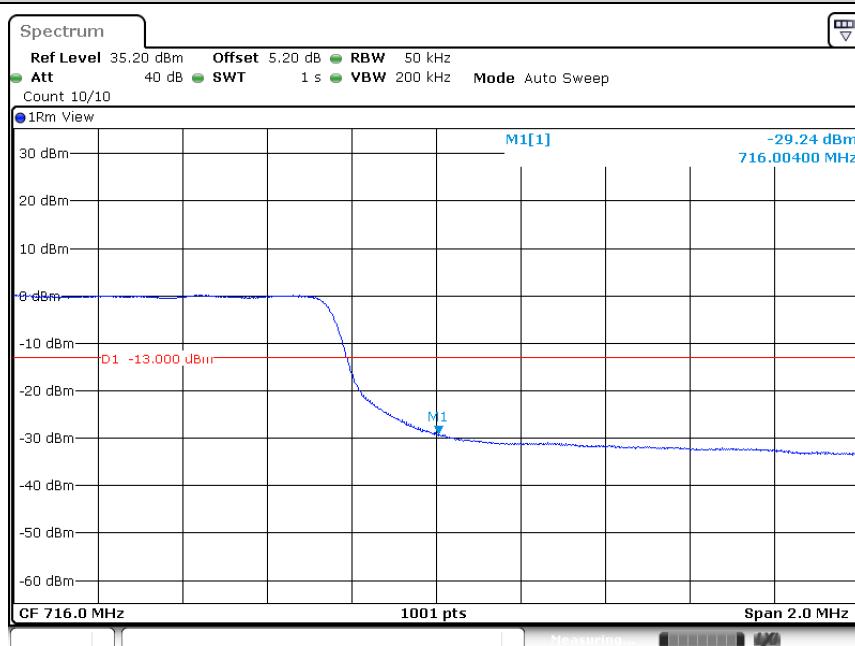
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Band17-5MHz-64QAM-23825-1RB#24



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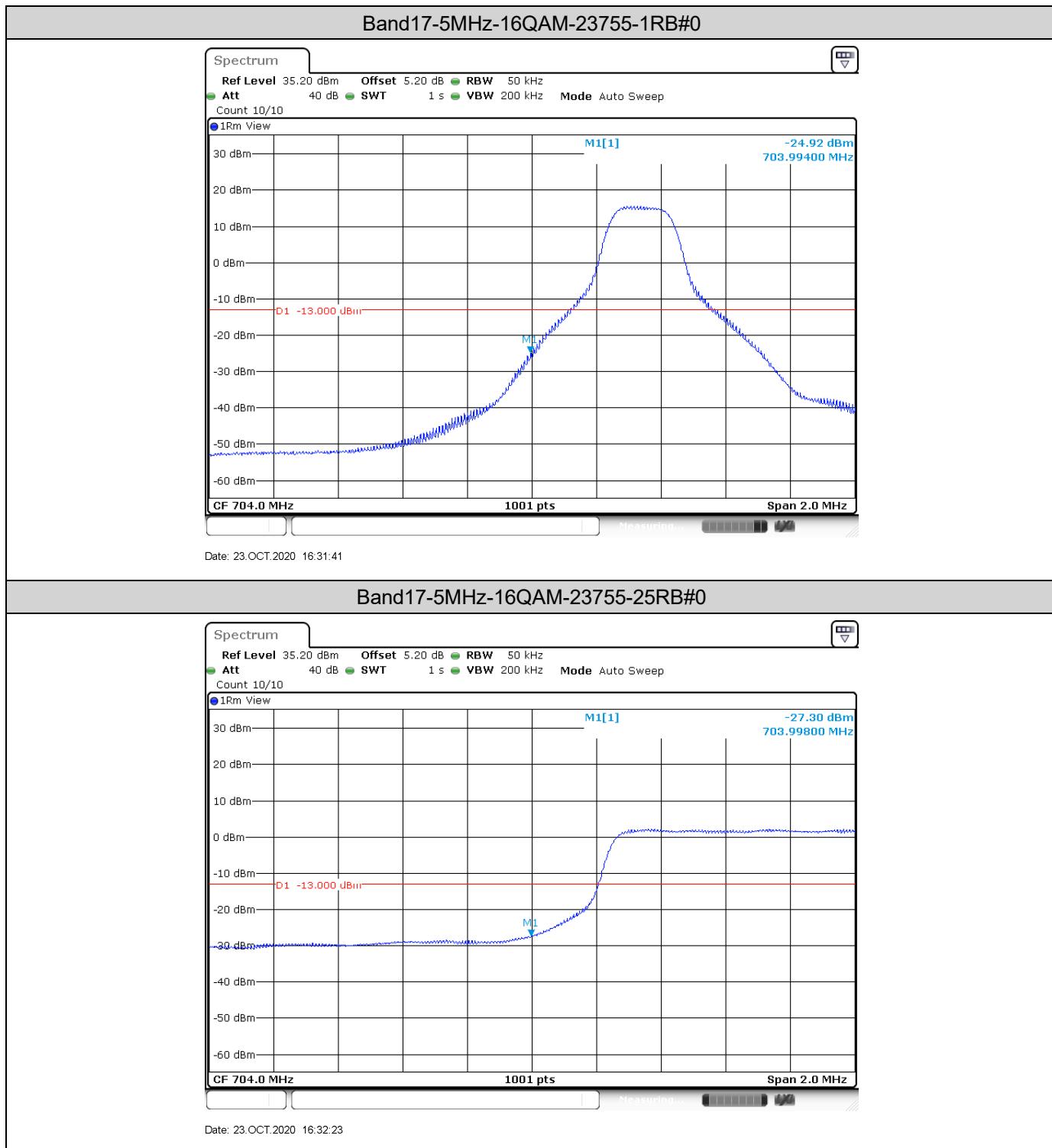
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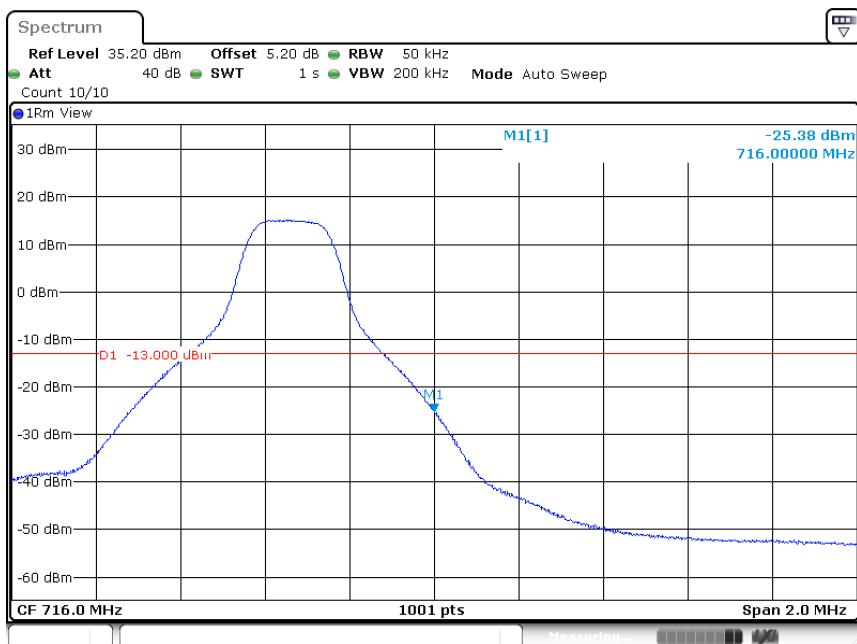
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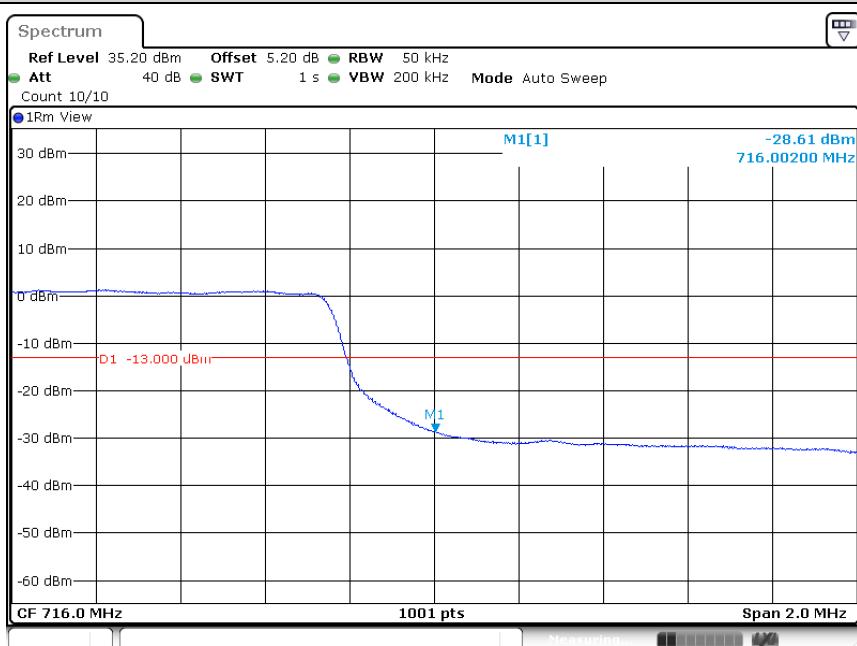
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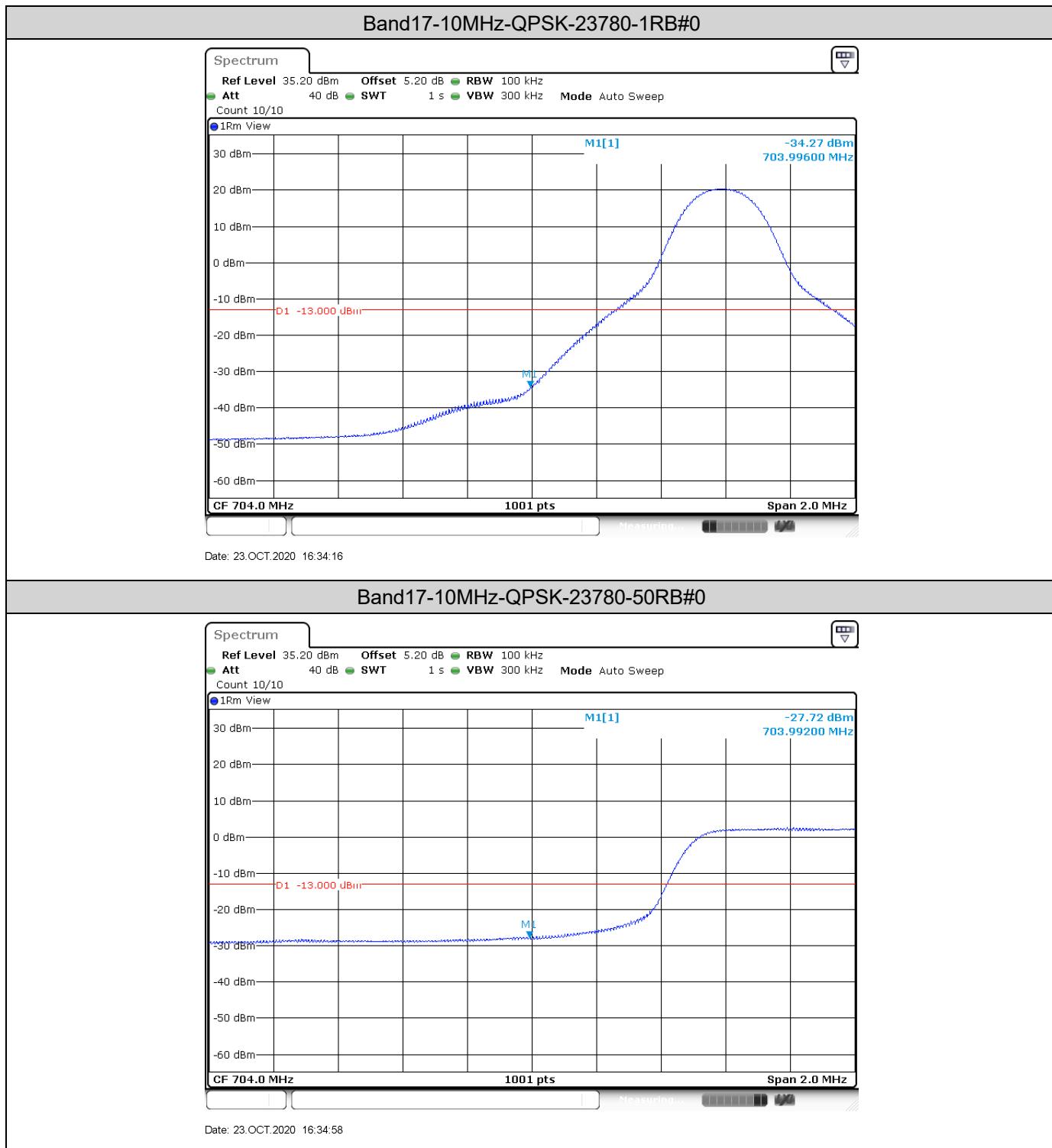
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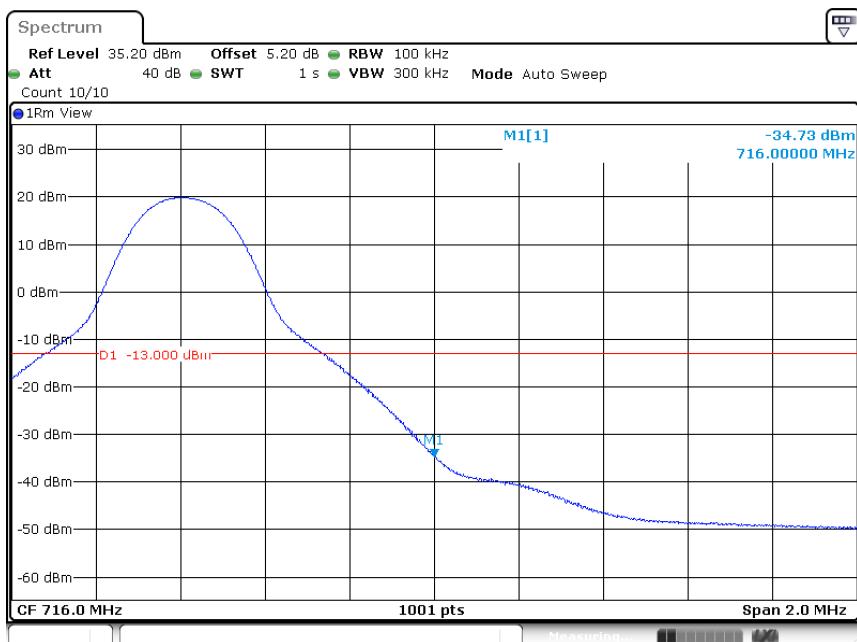
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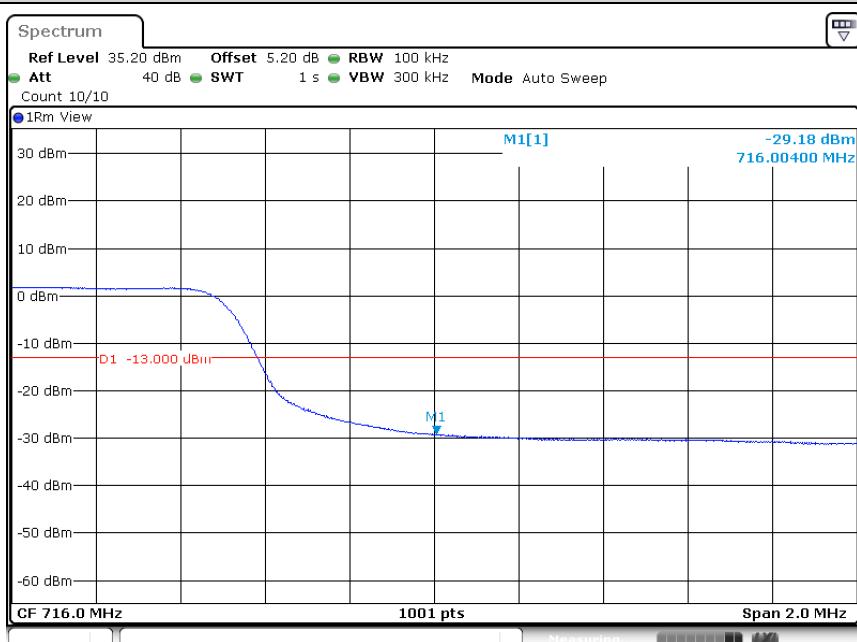
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Band17-10MHz-QPSK-23800-1RB#49



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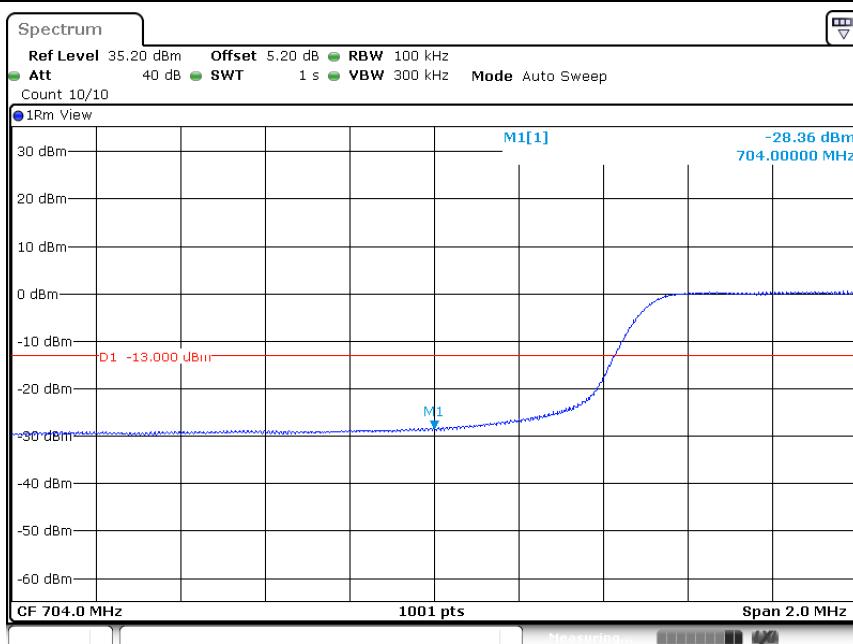
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Band17-10MHz-64QAM-23780-1RB#0



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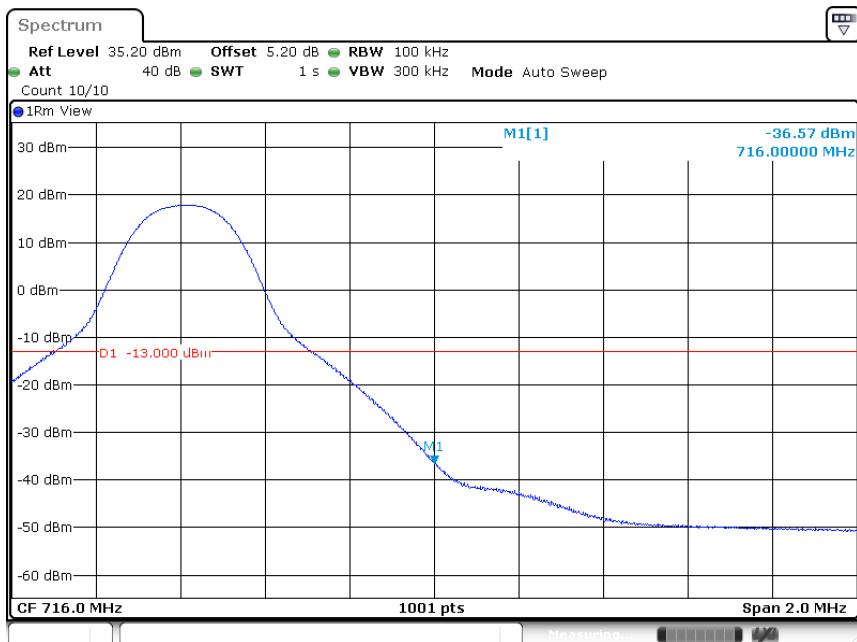
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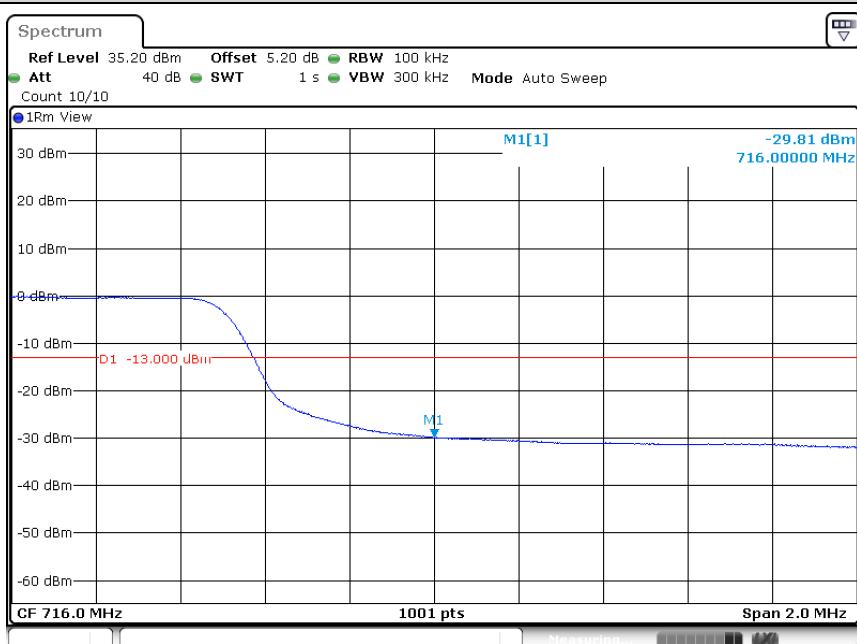
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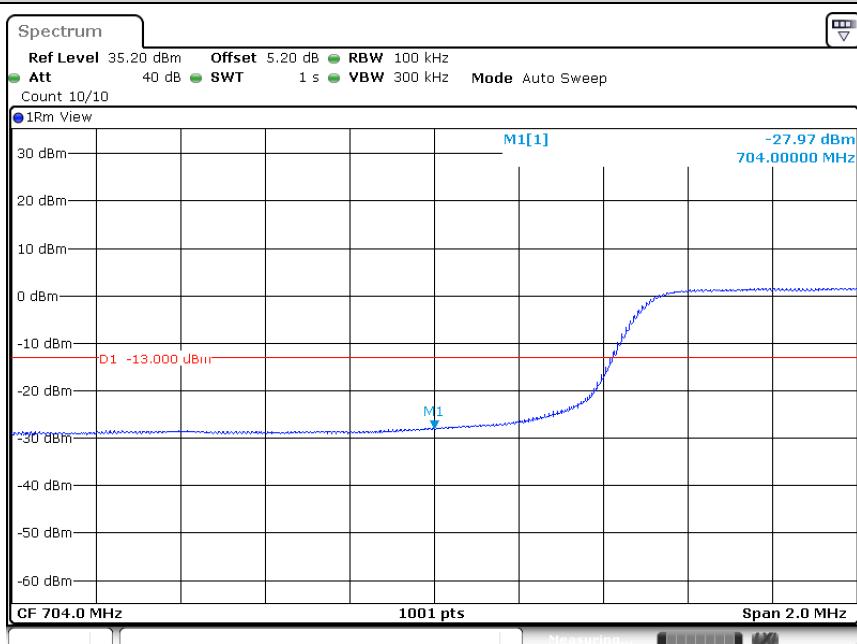


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Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23780-50RB#0



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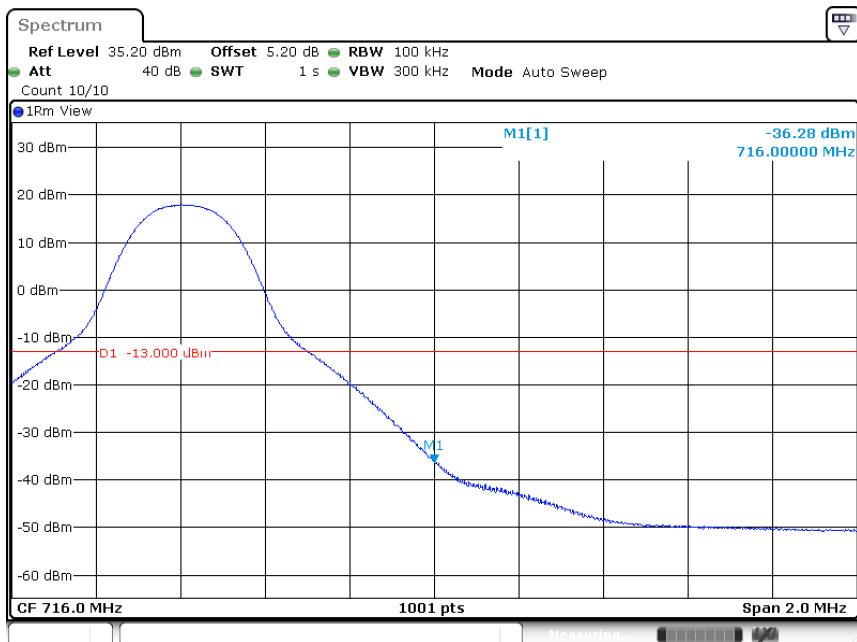
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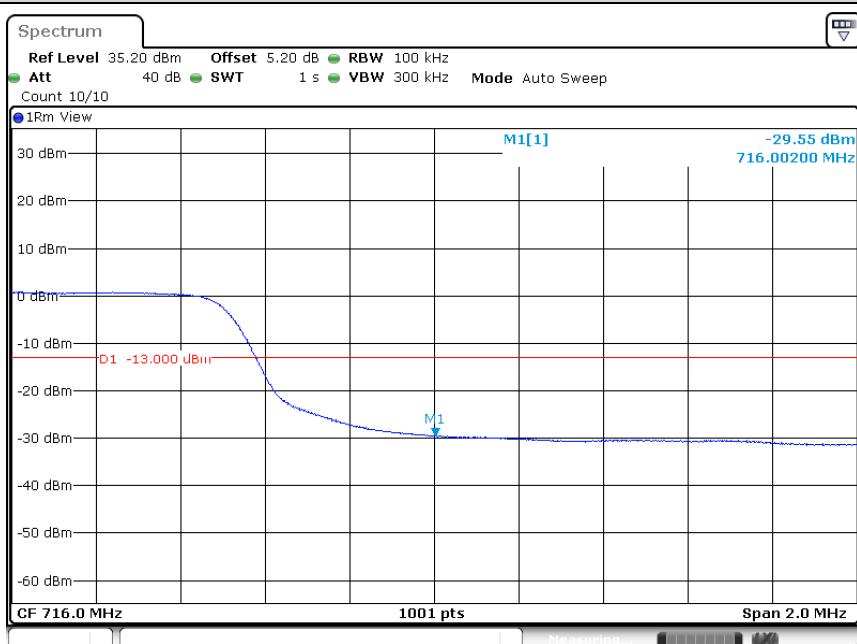
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Band17-10MHz-16QAM-23800-1RB#49



Band17-10MHz-16QAM-23800-50RB#0



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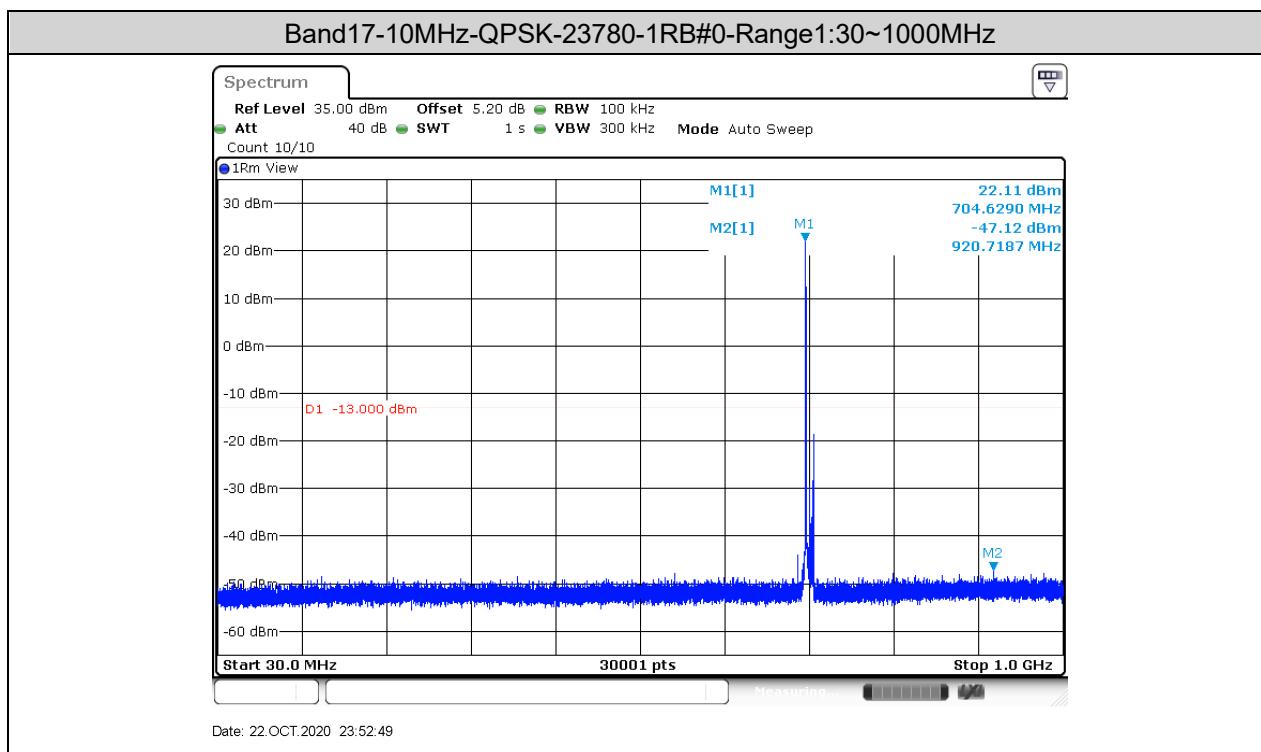
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6 Spurious Emission at Antenna Terminal

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

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

6.1 Test Plots



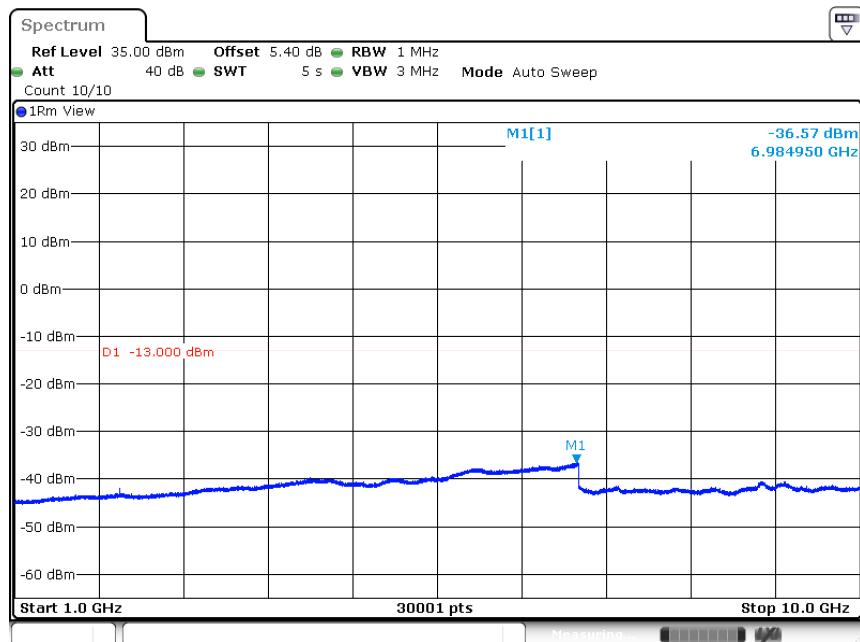
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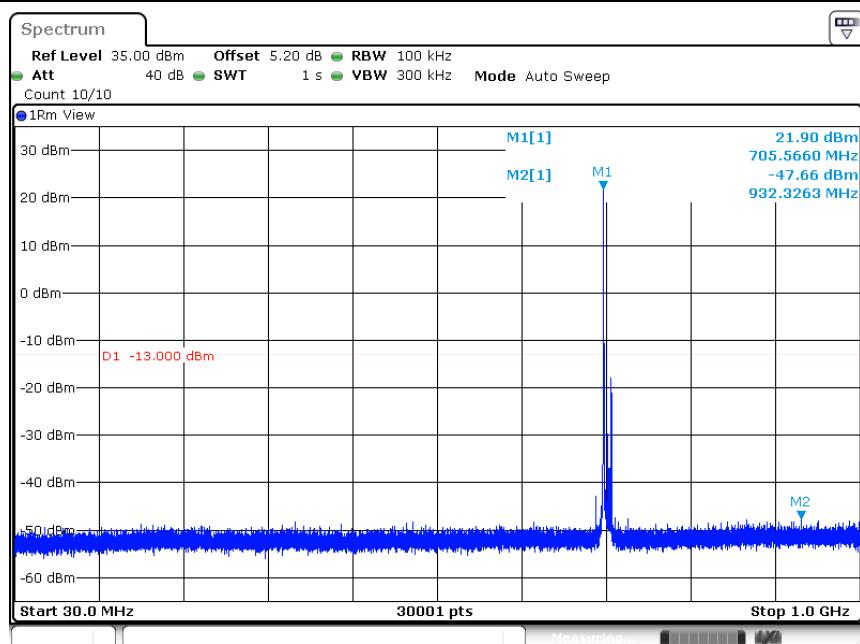
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Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:53:58

Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 23:55:52

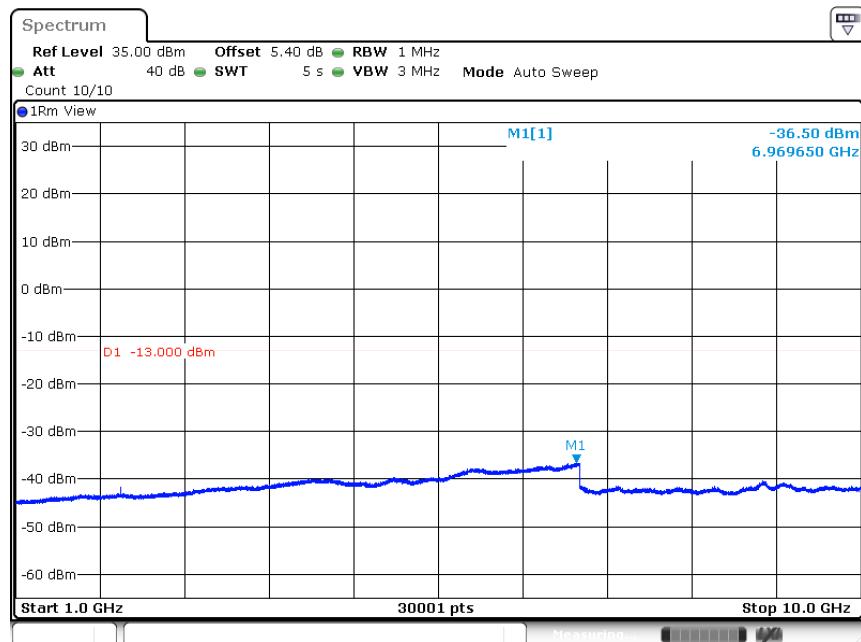
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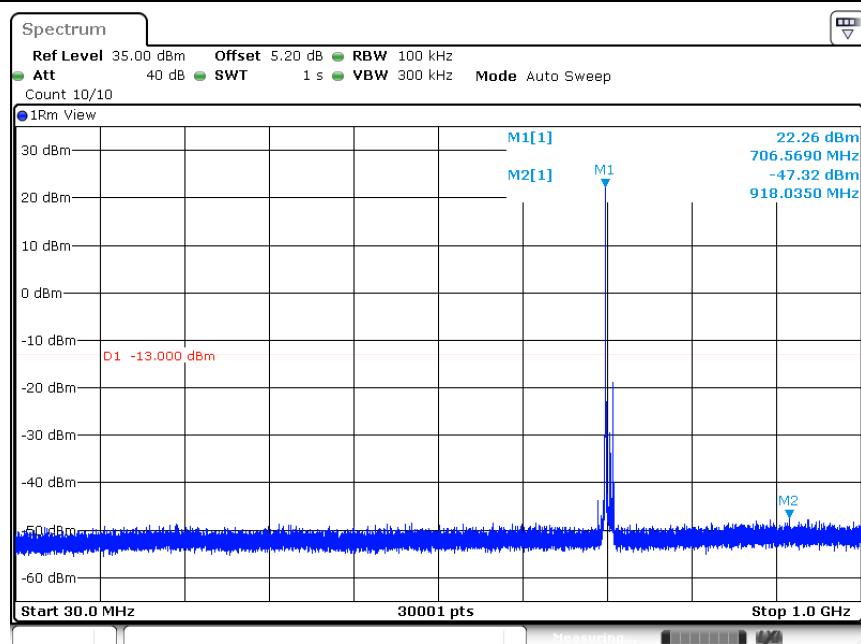
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Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:57:00

Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 23:58:55

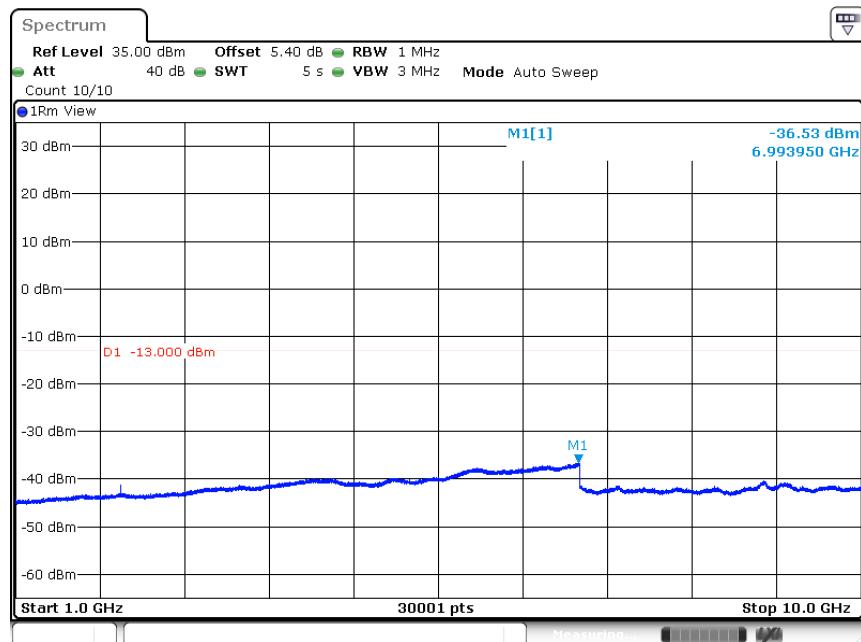
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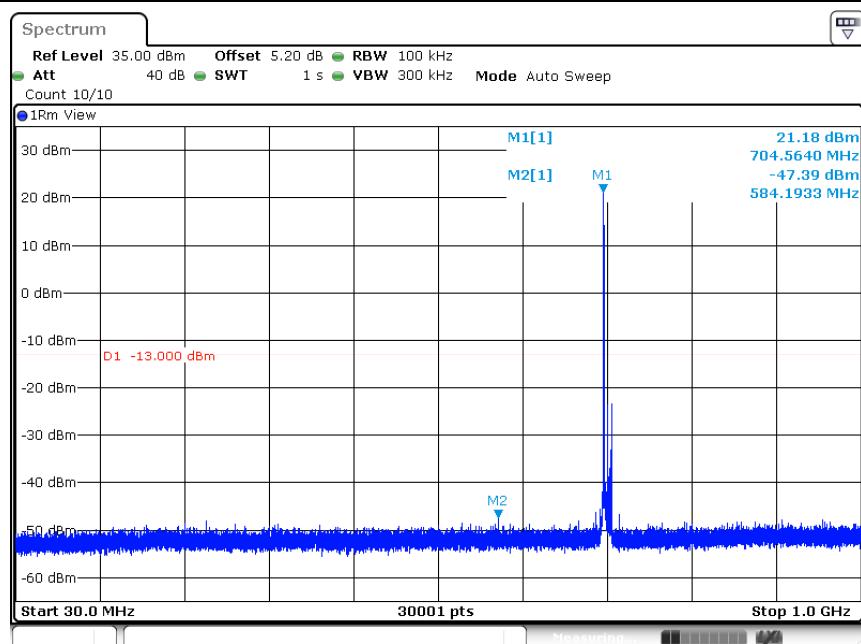
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Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 00:00:03

Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 23:54:21

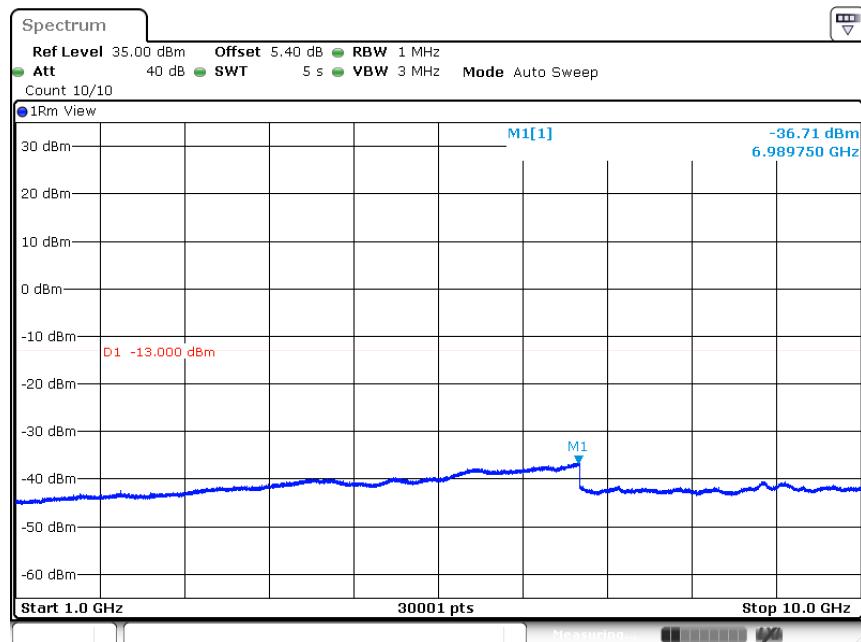
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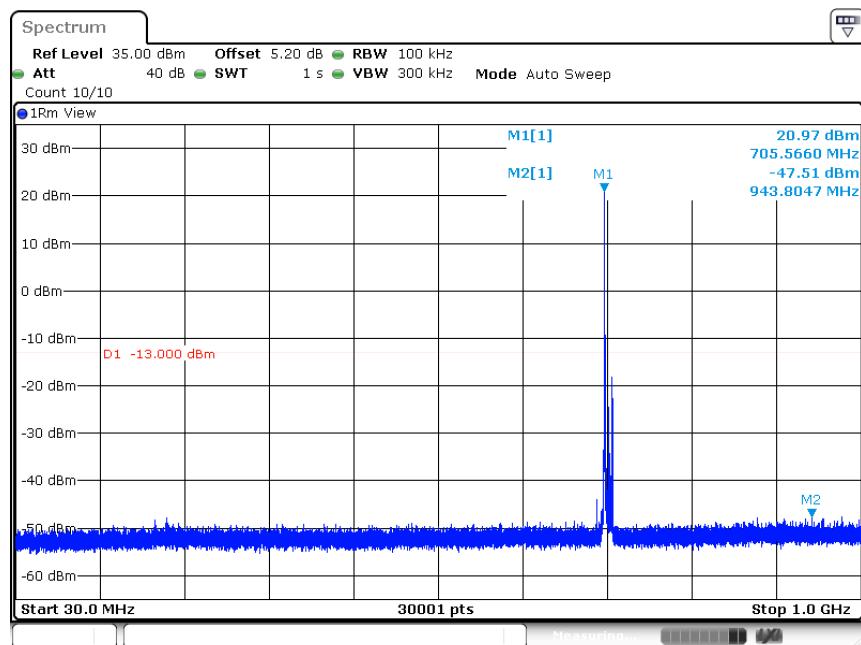
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Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:55:29

Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 23:57:23

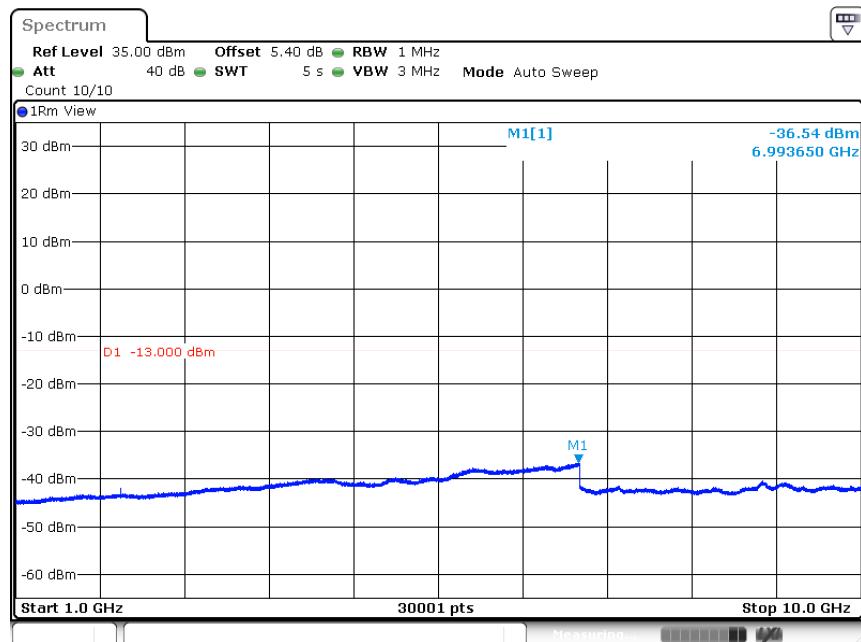
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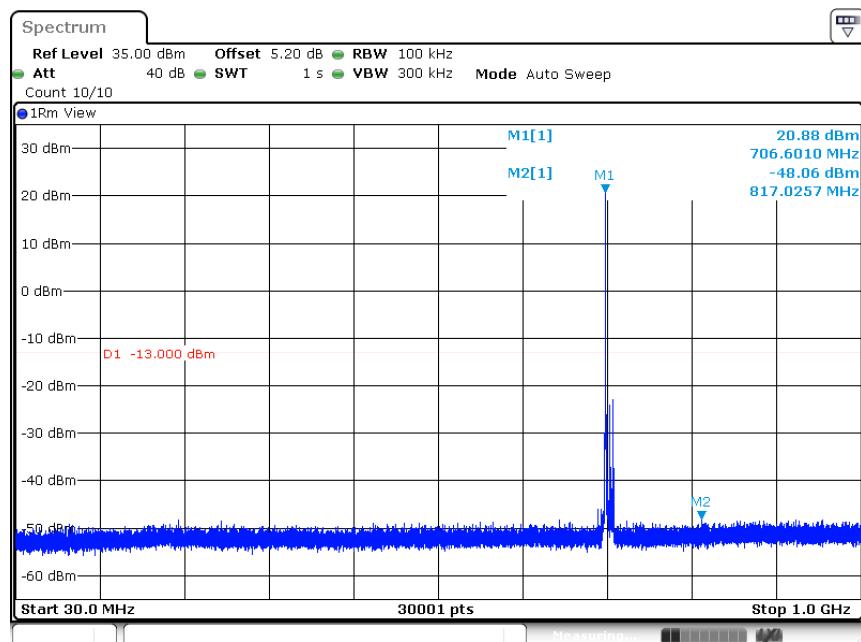
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Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



Date: 22.OCT.2020 23:58:31

Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 00:00:26

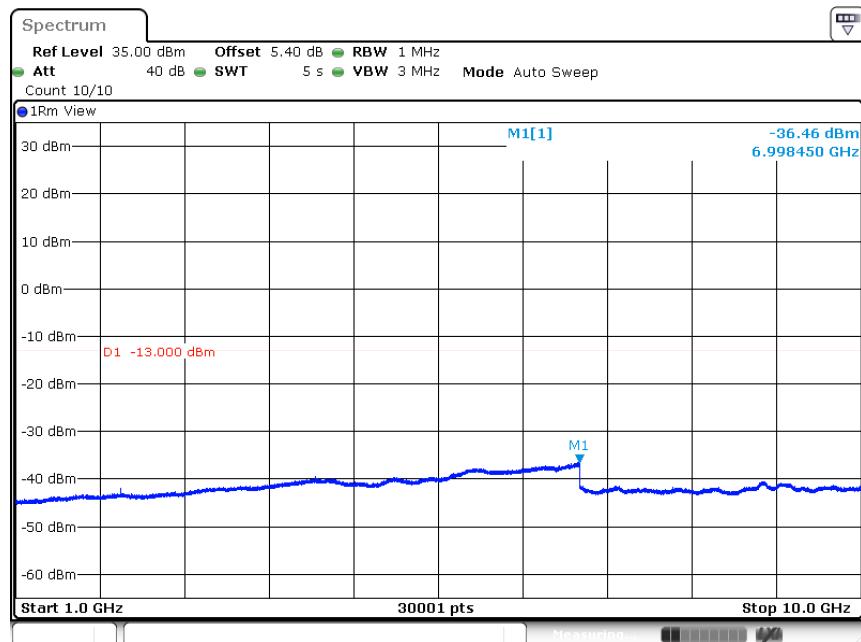
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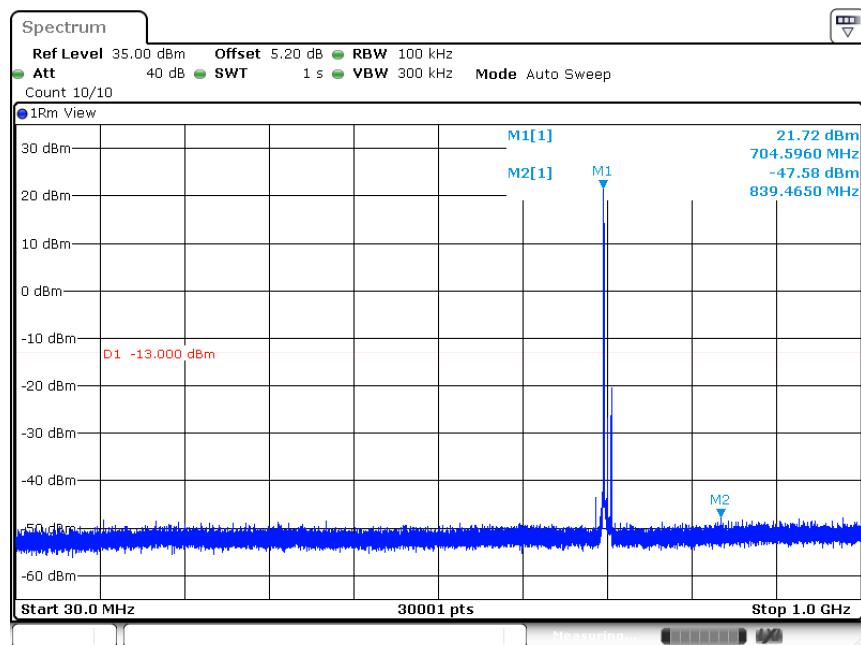
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Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 00:01:34

Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 01:10:04

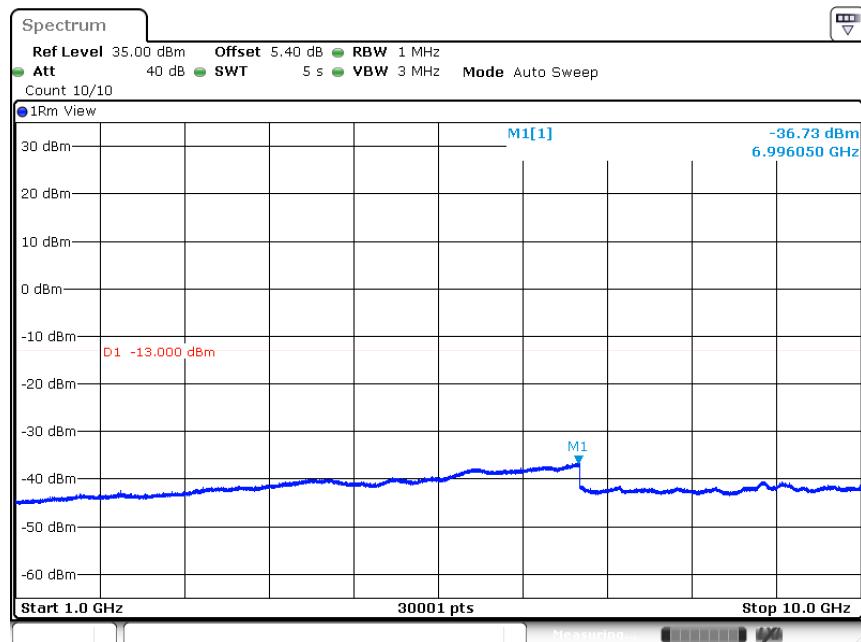
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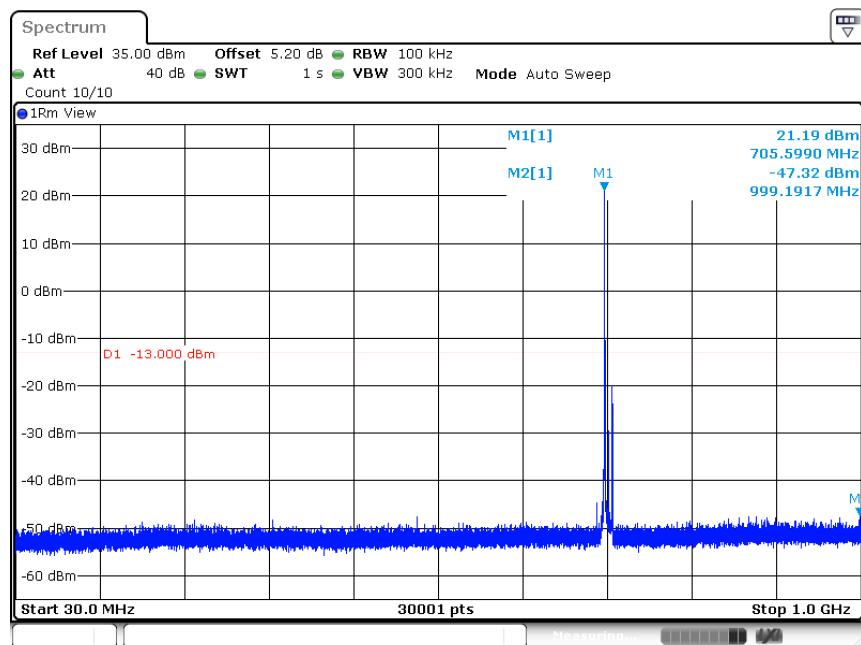
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Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~10000MHz



Date: 23.OCT.2020 01:11:12

Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



Date: 23.OCT.2020 01:11:35

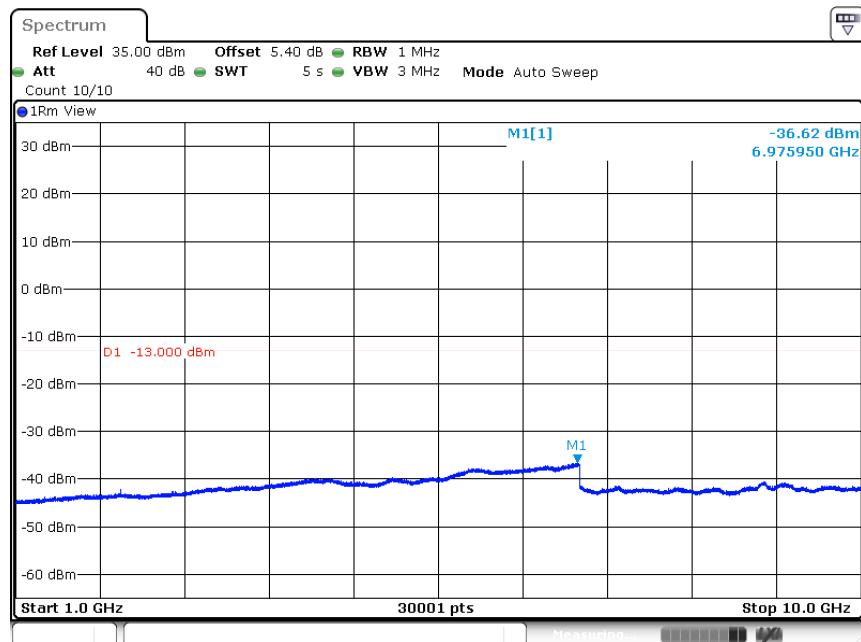
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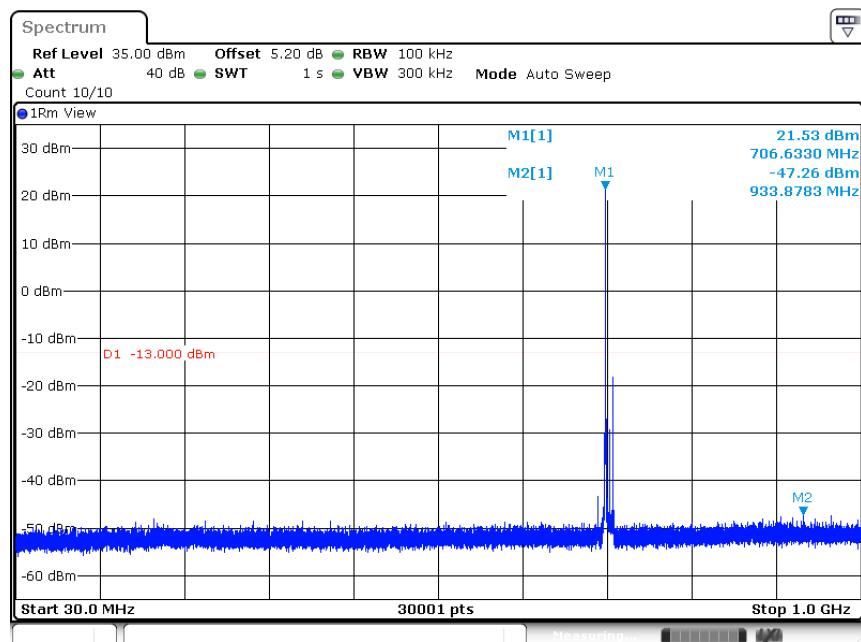
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Date: 23.OCT.2020 01:12:44

Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



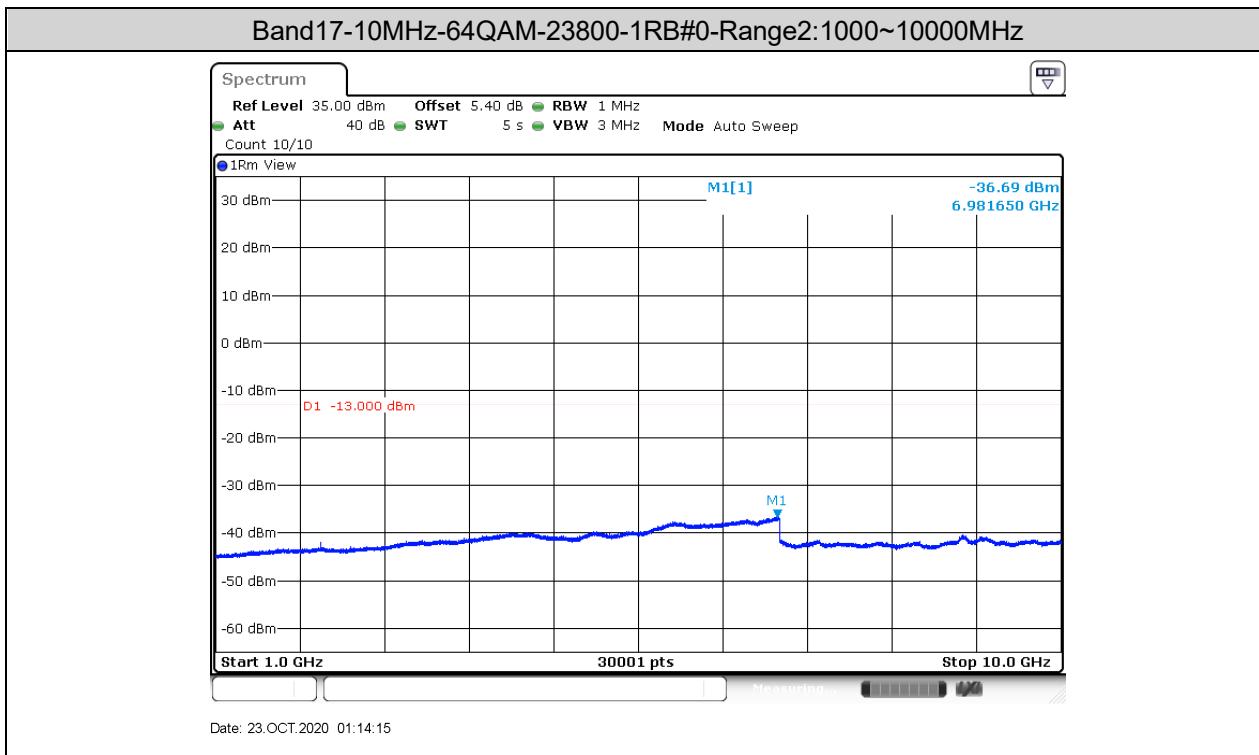
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7 Field Strength of Spurious Radiation

7.1 Test Band = LTE_17_TM1

7.1.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.3496	-63.77	-13.00	50.77	Horizontal
2	230.7515	-67.62	-13.00	54.62	Horizontal
3	2113.8228	-47.97	-13.00	34.97	Horizontal
4	2697.5395	-55.56	-13.00	42.56	Horizontal
5	7448.8180	-56.63	-13.00	43.63	Horizontal
6	9294.0918	-53.06	-13.00	40.06	Horizontal

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7.2 Test Band = LTE_17_TM1**7.2.1 Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	79.9575	-64.92	-13.00	51.92	Vertical
2	109.1560	-65.05	-13.00	52.05	Vertical
3	399.9765	-66.75	-13.00	53.75	Vertical
4	2113.8228	-51.78	-13.00	38.78	Vertical
5	3675.9470	-61.66	-13.00	48.66	Vertical
6	9324.0530	-53.01	-13.00	40.01	Vertical

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7.3 Test Band = LTE_17_TM1**7.3.1 Test Channel = Middle Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.7190	-63.72	-13.00	50.72	Horizontal
2	244.8657	-67.74	-13.00	54.74	Horizontal
3	582.2001	-64.15	-13.00	51.15	Horizontal
4	1410.8822	-62.93	-13.00	49.93	Horizontal
5	2116.6233	-48.97	-13.00	35.97	Horizontal
6	9312.0125	-53.07	-13.00	40.07	Horizontal

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7.4 Test Band = LTE_17_TM1**7.4.1 Test Channel = Middle Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	80.5880	-64.91	-13.00	51.91	Vertical
2	112.4056	-64.28	-13.00	51.28	Vertical
3	587.0504	-64.60	-13.00	51.60	Vertical
4	2116.6233	-52.50	-13.00	39.50	Vertical
5	7413.8166	-56.46	-13.00	43.46	Vertical
6	9567.3827	-52.89	-13.00	39.89	Vertical

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7.5 Test Band = LTE_17 _TM1**7.5.1 Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.2526	-63.01	-13.00	50.01	Horizontal
2	244.7687	-68.12	-13.00	55.12	Horizontal
3	1413.2827	-63.03	-13.00	50.03	Horizontal
4	2119.8240	-48.92	-13.00	35.92	Horizontal
5	7220.0488	-57.95	-13.00	44.95	Horizontal
6	9557.0223	-52.92	-13.00	39.92	Horizontal

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7.6 Test Band = LTE_17 _TM1**7.6.1 Test Channel = High Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	79.8120	-65.30	-13.00	52.30	Vertical
2	111.6296	-64.41	-13.00	51.41	Vertical
3	431.4546	-67.12	-13.00	54.12	Vertical
4	1412.8826	-62.07	-13.00	49.07	Vertical
5	2119.8240	-52.48	-13.00	39.48	Vertical
6	9275.8910	-52.89	-13.00	39.89	Vertical

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						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-2.00	-0.002821	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-1.20	-0.001693	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-1.20	-0.001693	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-1.00	-0.001408	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.20	-0.000282	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.20	-0.000282	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-1.00	-0.001406	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-3.30	-0.004641	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.30	-0.000423	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-0.20	-0.000282	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS	
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-0.40	-0.000563	±2.5	PASS	
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	0.50	0.000704	±2.5	PASS	
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-0.10	-0.000141	±2.5	PASS	
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-1.10	-0.001547	±2.5	PASS	
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-2.40	-0.003376	±2.5	PASS	
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-1.20	-0.001688	±2.5	PASS	
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-1.50	-0.002116	±2.5	PASS	
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	0.30	0.000423	±2.5	PASS	
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-1.50	-0.002116	±2.5	PASS	
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	0.40	0.000563	±2.5	PASS	
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-0.50	-0.000704	±2.5	PASS	
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-1.50	-0.002113	±2.5	PASS	
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-2.40	-0.003376	±2.5	PASS	
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-2.30	-0.003235	±2.5	PASS	
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-1.80	-0.002532	±2.5	PASS	

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8.2 Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-0.80	-0.001128	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-0.80	-0.001128	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-0.70	-0.000987	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-1.20	-0.001693	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-0.30	-0.000423	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-0.90	-0.001269	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	30	0.40	0.000564	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.00	-0.001410	±2.5	PASS	
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.20	-0.000282	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.50	0.000704	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.20	0.000282	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.30	0.000423	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.50	0.000704	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.70	-0.000986	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.70	-0.000986	±2.5	PASS	
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.00	0.000000	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-2.50	-0.003516	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-3.10	-0.004360	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-2.10	-0.002954	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-0.60	-0.000844	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-2.20	-0.003094	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-0.70	-0.000985	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-1.00	-0.001406	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-1.20	-0.001688	±2.5	PASS	
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-1.00	-0.001410	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-0.40	-0.000564	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-0.60	-0.000846	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-1.80	-0.002539	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	NV	10	0.00	0.000000	±2.5	PASS	
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.50	-0.002116	±2.5	PASS	

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Band17	10MHz	16QAM	23780	50RB#0	NV	30	-2.40	-0.003385	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	0.80	0.001127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-2.10	-0.002954	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-1.70	-0.002391	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	0.20	0.000282	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	0.30	0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-0.70	-0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	0.70	0.000986	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-0.80	-0.001127	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-1.70	-0.002394	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-0.50	-0.000704	±2.5	PASS

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Band17	10MHz	64QAM	23790	50RB#0	NV	40	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-1.30	-0.001828	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-2.00	-0.002813	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-3.10	-0.004360	±2.5	PASS

The End

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