

Appendix B

E-UTRA Band 17

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Down Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.65	19.90	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.60	19.85	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.74	19.99	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.73	18.98	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.70	18.95	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.76	19.01	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.74	18.99	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.58	19.83	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.70	19.95	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.74	19.99	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.63	18.88	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.76	19.01	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.76	19.01	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	19.00	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.78	20.03	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.84	20.09	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.67	19.92	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.74	18.99	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.84	19.09	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.84	19.09	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.79	19.04	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.07	19.32	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.56	18.81	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.75	19.00	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.69	17.94	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.68	17.93	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.67	17.92	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.67	17.92	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.16	19.41	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.07	19.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.08	19.33	34.77	PASS

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Band17	5MHz	16QAM	23790	12RB#0	21.58	17.83	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.64	17.89	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.68	17.93	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.58	17.83	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.87	19.12	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.08	19.33	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.72	18.97	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.62	17.87	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.81	18.06	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.70	17.95	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.77	18.02	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.85	20.10	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.73	19.98	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.06	19.31	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.73	18.98	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.75	19.00	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.85	19.10	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.79	19.04	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.76	20.01	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.87	20.12	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.13	19.38	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.78	19.03	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.80	19.05	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.84	19.09	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.81	19.06	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.80	20.05	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.74	19.99	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.04	19.29	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.75	19.00	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.84	19.09	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.97	19.22	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.94	19.19	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.82	19.07	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.59	18.84	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.33	19.58	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.60	17.85	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.68	17.93	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.69	17.94	34.77	PASS

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Band17	10MHz	16QAM	23780	50RB#0	21.64	17.89	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.88	19.13	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.03	19.28	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.05	19.30	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.76	18.01	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.74	17.99	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.77	18.02	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	18.03	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.79	19.04	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.76	19.01	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.24	19.49	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.59	17.84	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.62	17.87	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.93	18.18	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.78	18.03	34.77	PASS

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Up Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.20	18.25	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.42	18.47	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.30	18.35	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.38	17.43	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.47	17.52	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.48	17.53	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.51	17.56	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.30	18.35	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.42	18.47	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.42	18.47	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.51	17.56	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.51	17.56	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.65	17.70	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.54	17.59	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.52	18.57	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.39	18.44	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.45	18.50	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.52	17.57	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.64	17.69	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.66	17.71	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.57	17.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.83	17.88	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.72	17.77	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.88	17.93	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.37	16.42	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.42	16.47	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.35	16.40	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.34	16.39	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.44	17.49	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.82	17.87	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.33	17.38	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.27	16.32	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.44	16.49	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.49	16.54	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.41	16.46	34.77	PASS

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Band17	5MHz	16QAM	23825	1RB#0	22.94	17.99	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.83	17.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.95	18.00	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.45	16.50	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.58	16.63	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.45	16.50	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.54	16.59	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.39	18.44	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.48	18.53	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.05	18.10	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.67	17.72	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.66	17.71	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.72	17.77	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	17.73	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.33	18.38	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.58	18.63	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.03	18.08	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.66	17.71	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.66	17.71	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.76	17.81	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.72	17.77	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.46	18.51	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.62	18.67	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.00	18.05	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.65	17.70	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.68	17.73	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.87	17.92	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.78	17.83	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.65	17.70	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.85	17.90	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.11	18.16	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.66	16.71	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.65	16.70	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.81	16.86	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.76	16.81	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.76	17.81	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.86	17.91	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.00	18.05	34.77	PASS

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Band17	10MHz	16QAM	23790	25RB#0	21.62	16.67	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.70	16.75	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.73	16.78	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	16.83	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.43	17.48	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.03	18.08	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.05	18.10	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.57	16.62	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.75	16.80	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.74	16.79	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.96	17.01	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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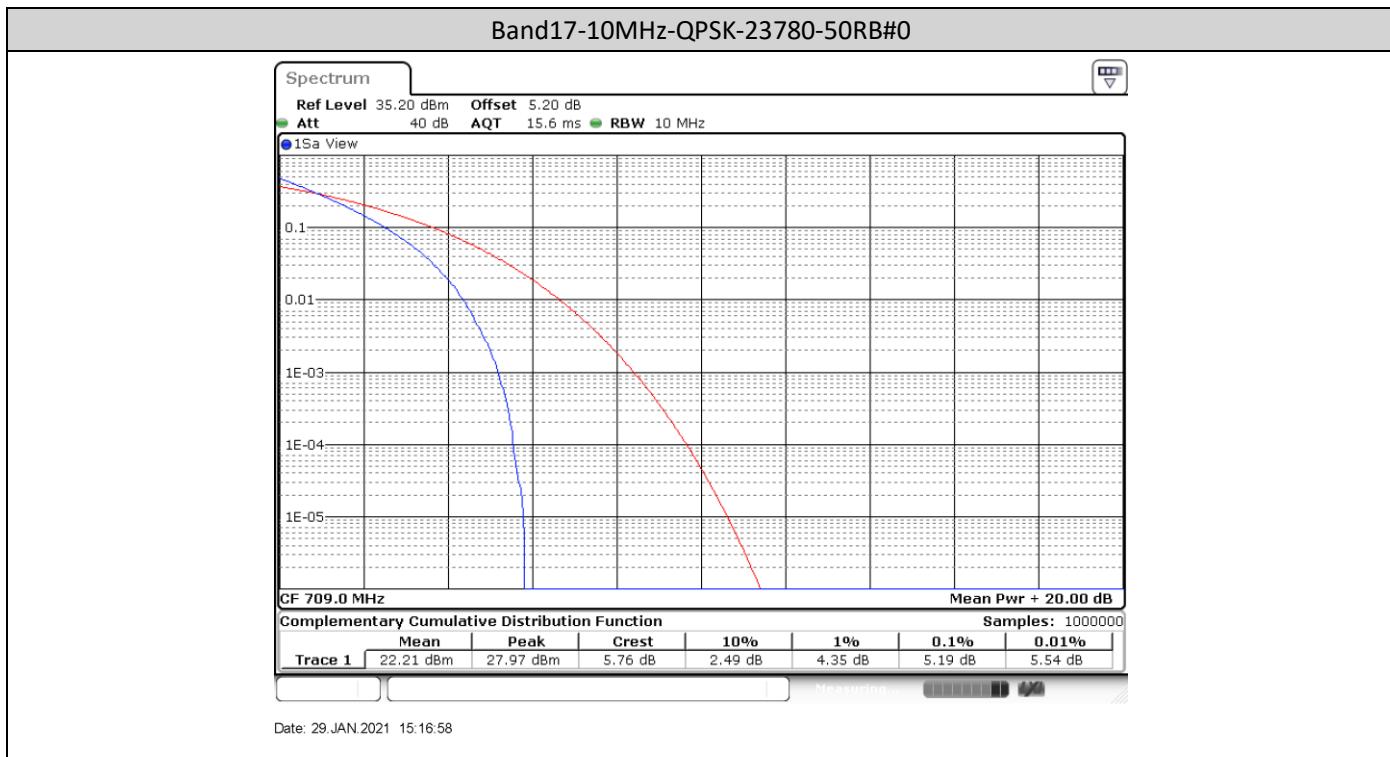
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.19	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.13	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.99	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.88	13	PASS

2.2. Test Plots



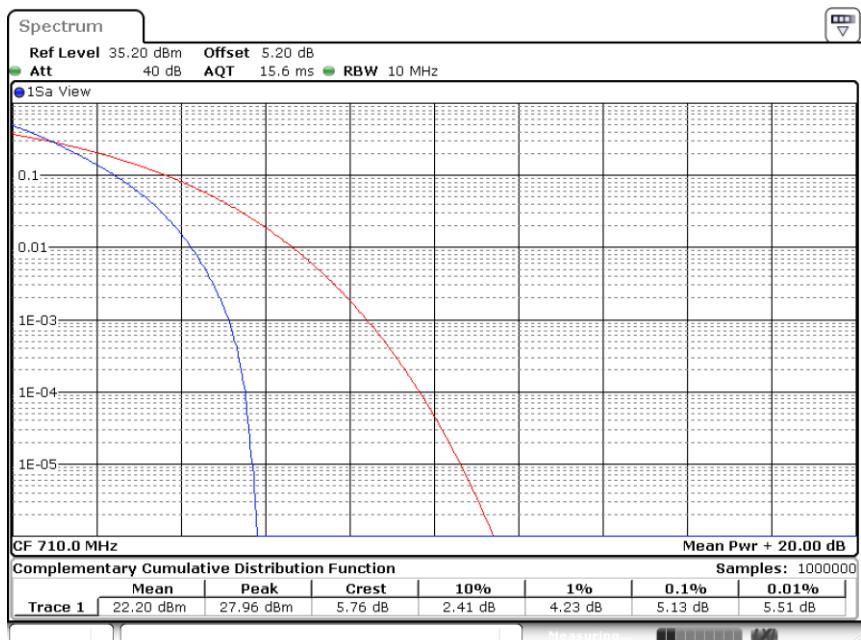
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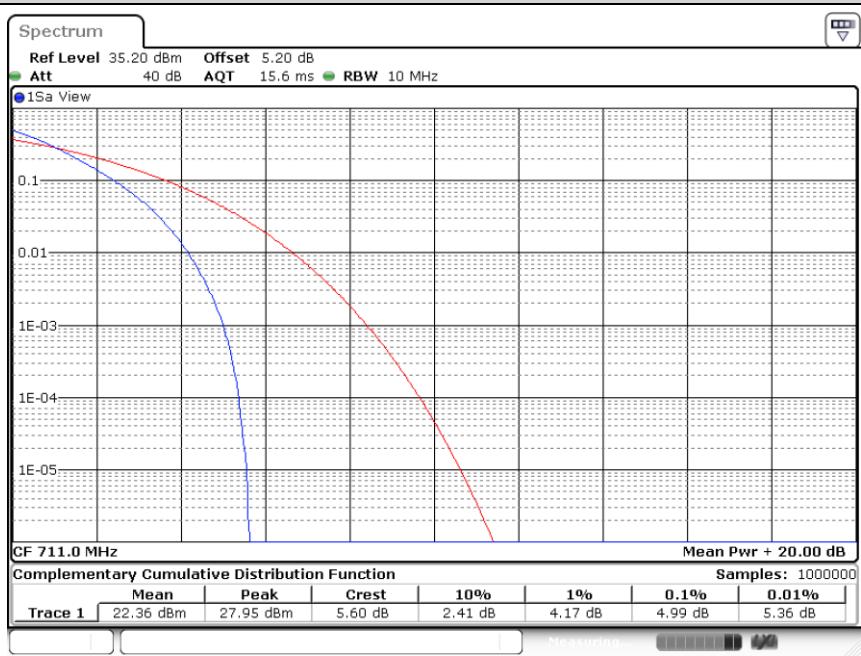
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Band17-10MHz-QPSK-23790-50RB#0



Date: 29.JAN.2021 15:17:21

Band17-10MHz-QPSK-23800-50RB#0



Date: 29.JAN.2021 15:17:44

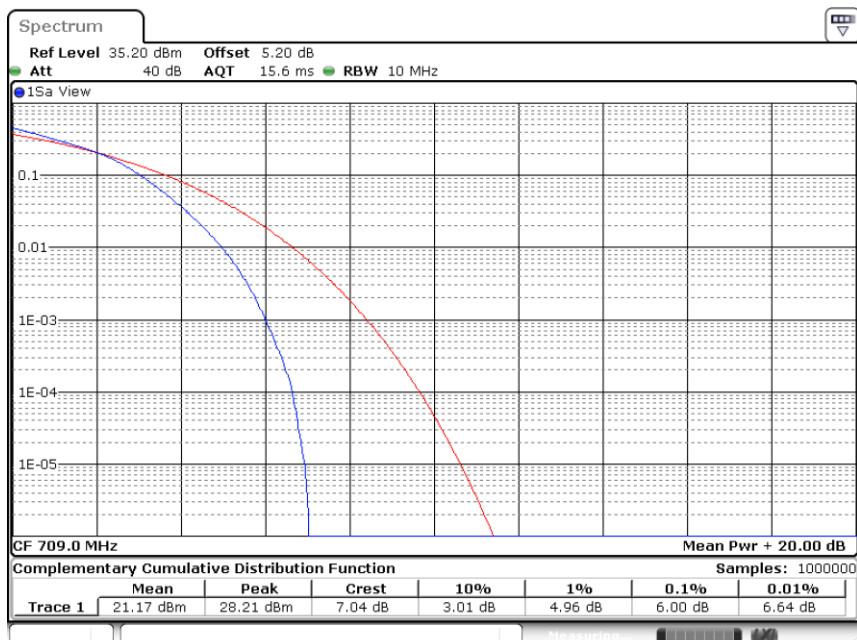
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Band17-10MHz-16QAM-23780-50RB#0



Date: 29.JAN.2021 15:17:10

Band17-10MHz-16QAM-23790-50RB#0



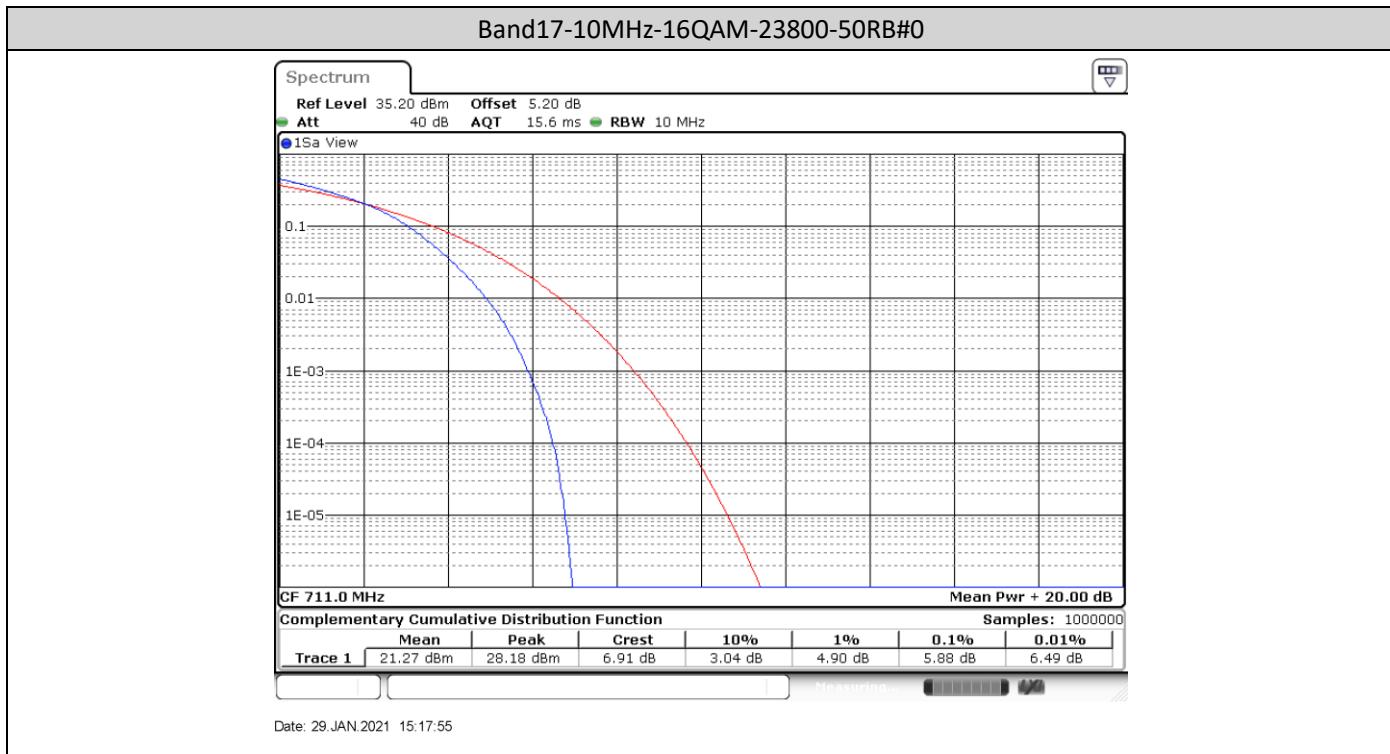
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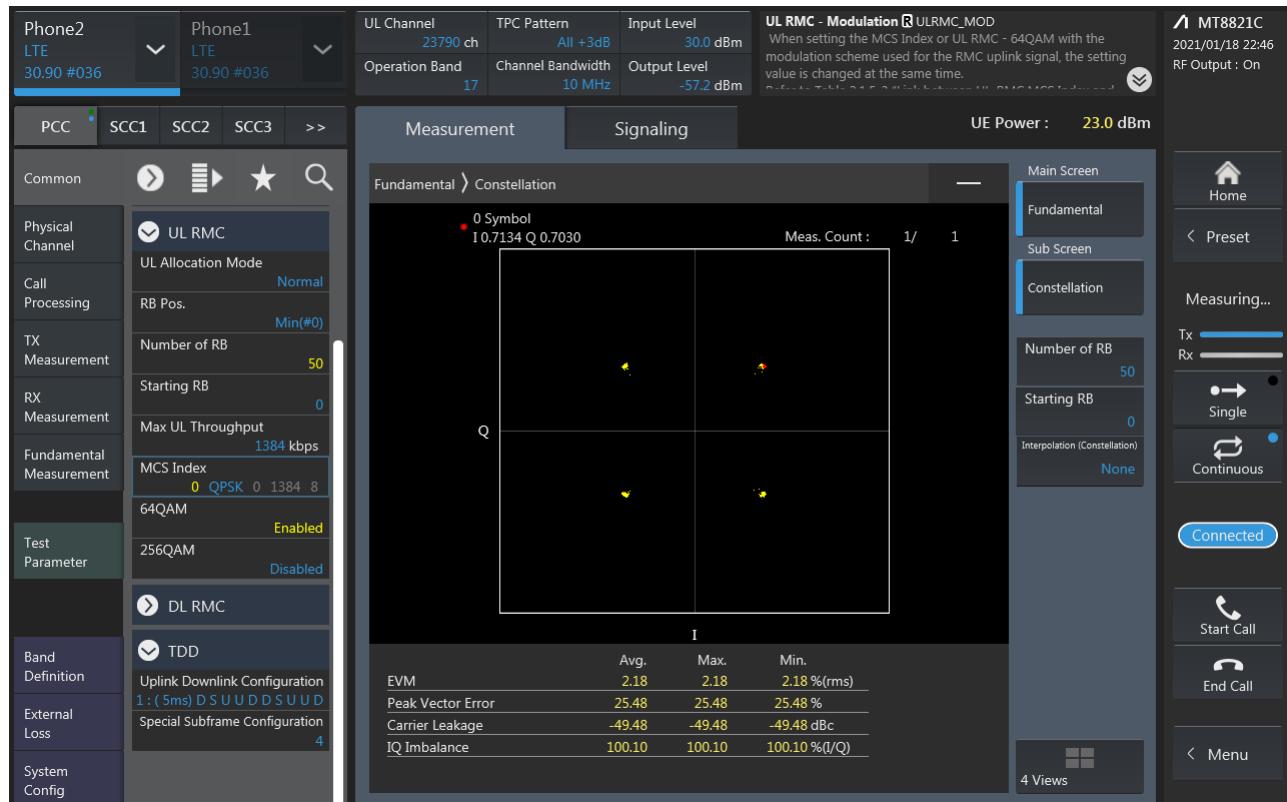


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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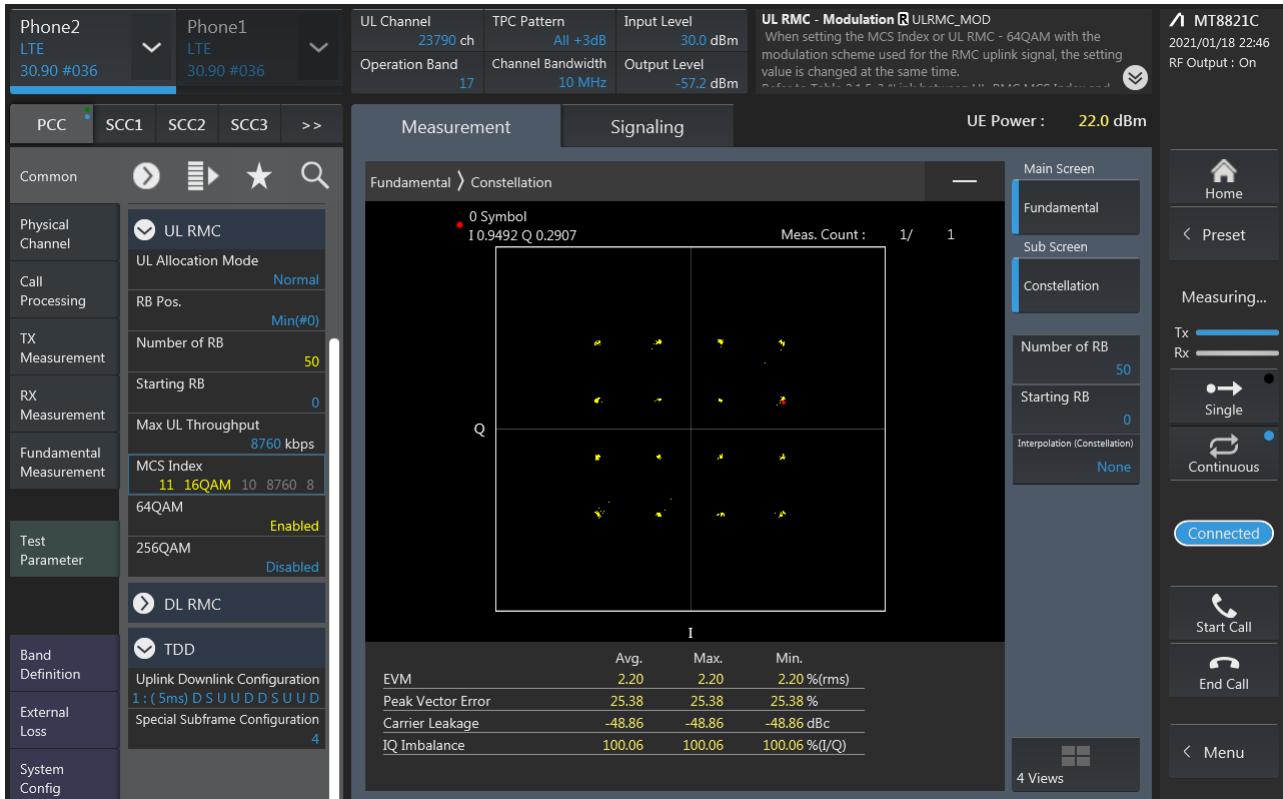
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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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	4.960	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.940	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.910	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	4.940	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.486	4.950	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.486	4.960	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.760	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.800	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.931	9.720	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.951	9.800	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.951	9.780	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.951	9.760	PASS

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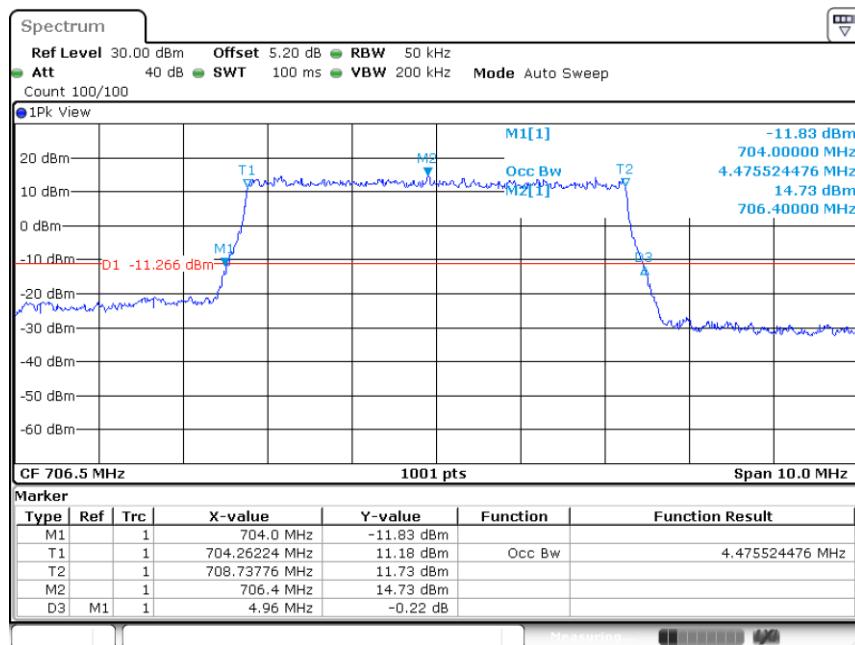


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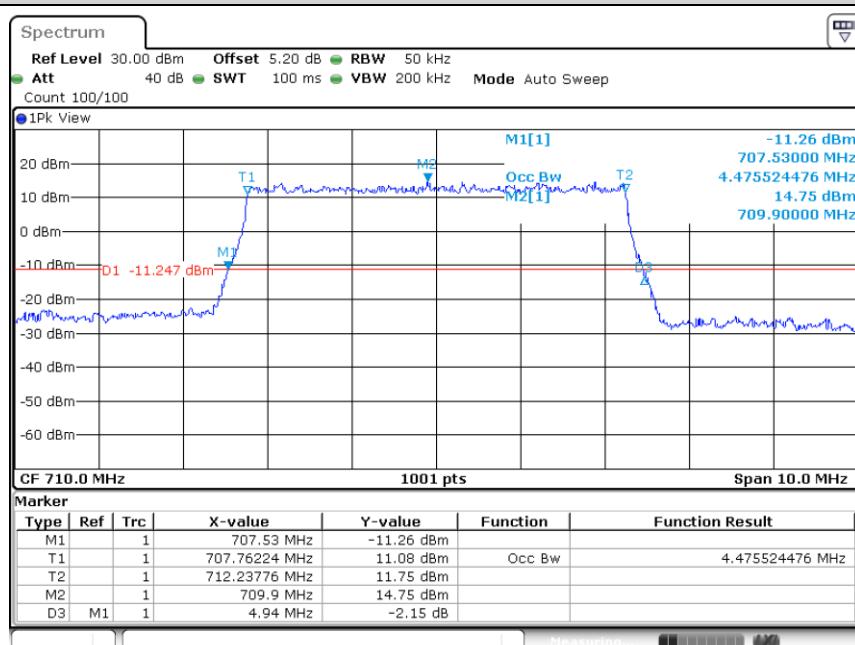
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4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.4.76



Band17-5MHz-QPSK-23790-25RB#0-4.4.76

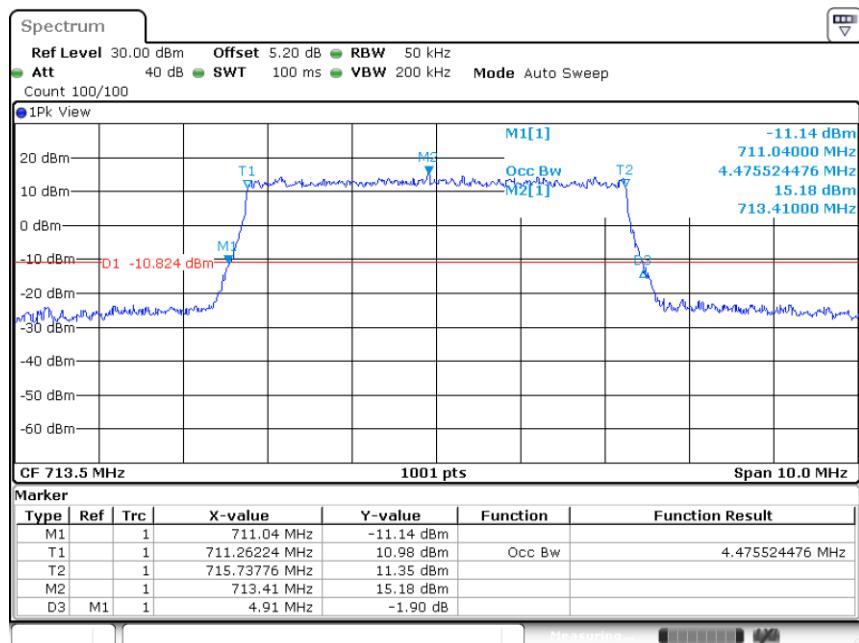


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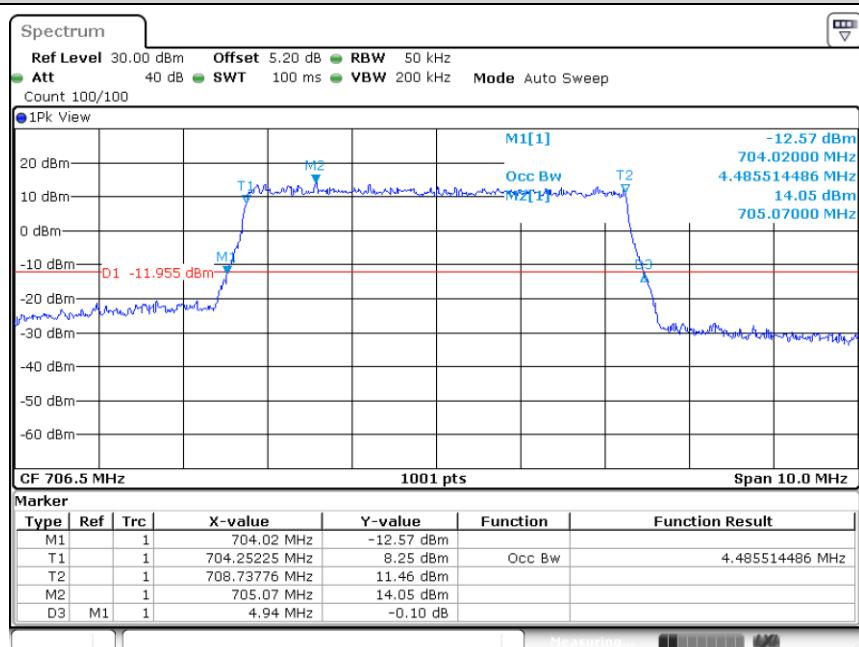


Band17-5MHz-QPSK-23825-25RB#0-4.476



Date: 29.JAN.2021 15:00:25

Band17-5MHz-16QAM-23755-25RB#0-4.486



Date: 29.JAN.2021 14:59:25

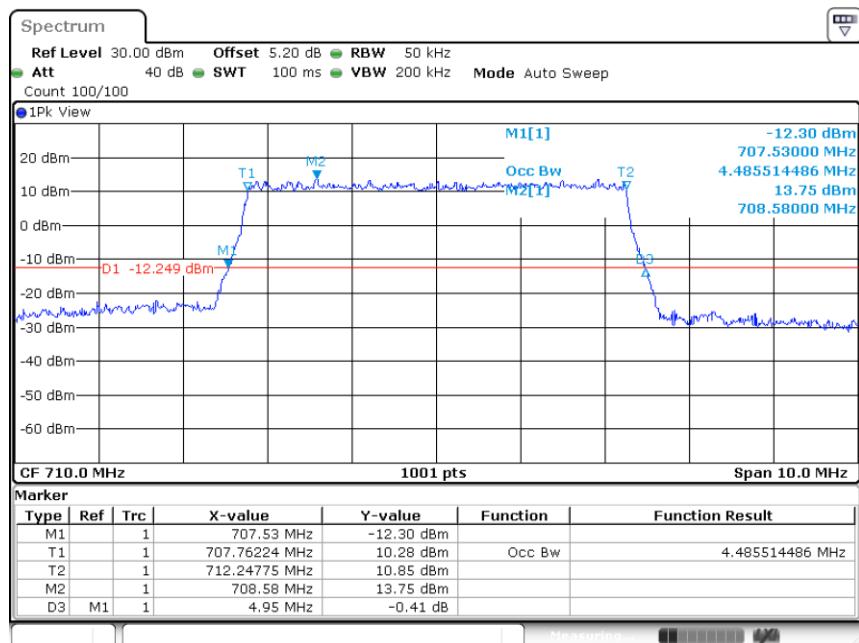
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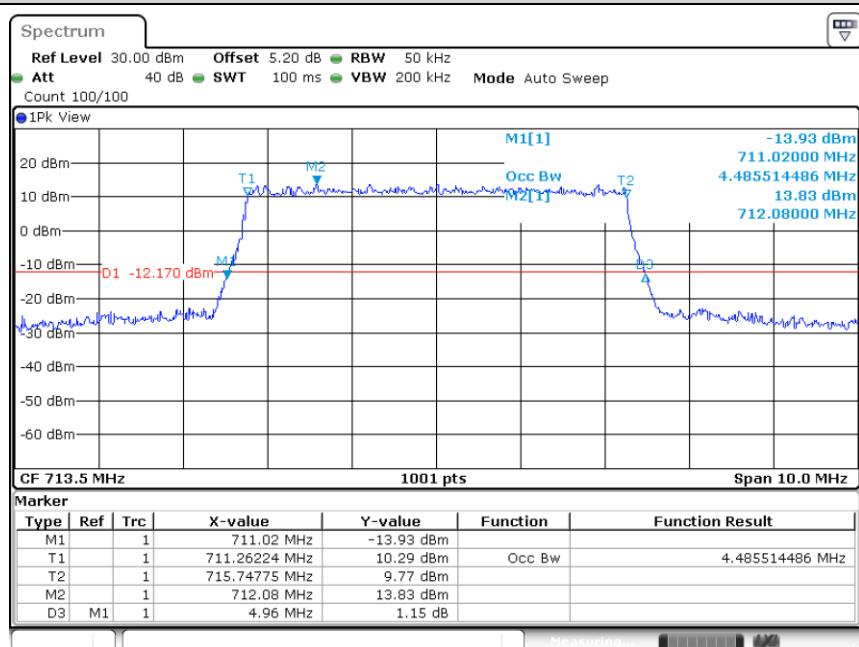
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Band17-5MHz-16QAM-23790-25RB#0-4.486



Date: 29.JAN.2021 15:00:05

Band17-5MHz-16QAM-23825-25RB#0-4.486



Date: 29.JAN.2021 15:00:44

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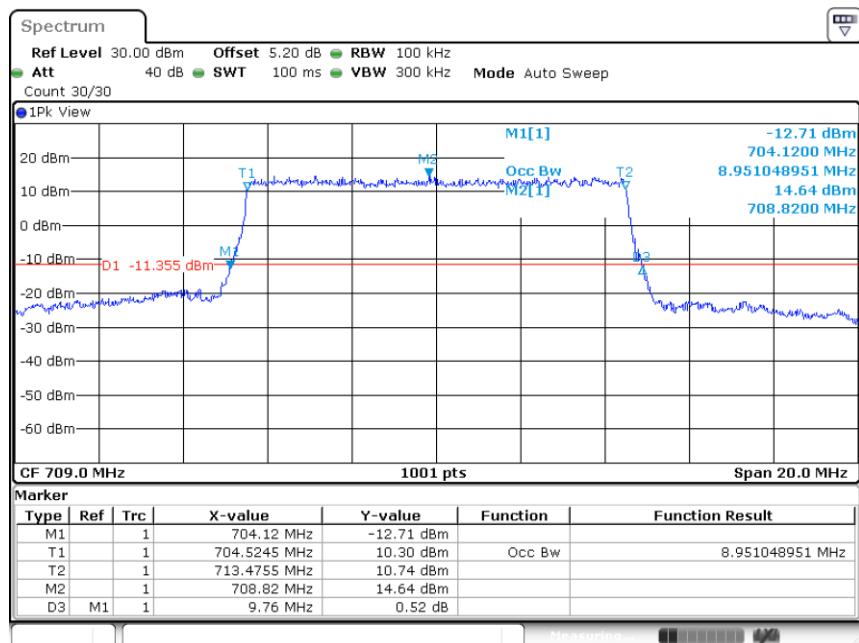
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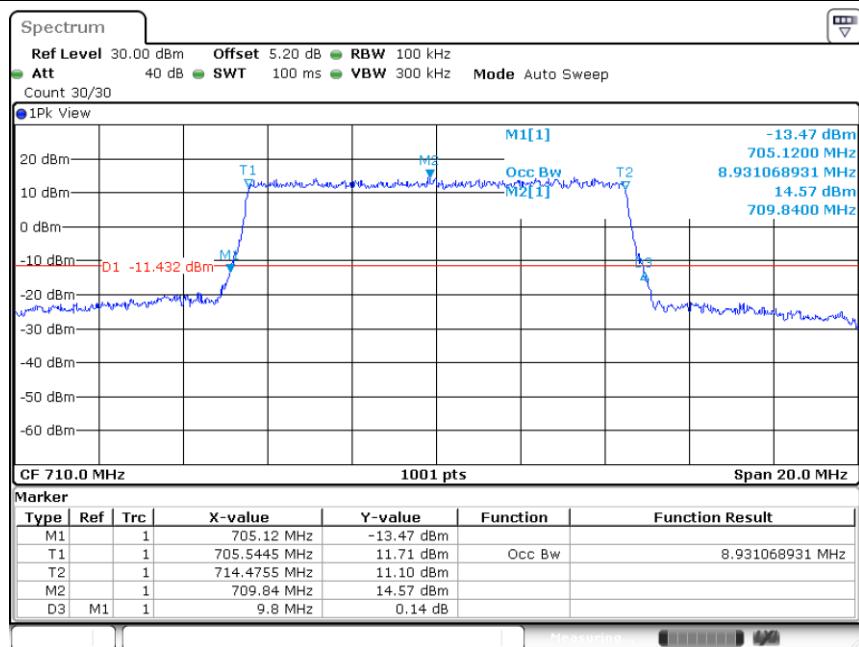


Band17-10MHz-QPSK-23780-50RB#0-8.951



Date: 29.JAN.2021 15:01:02

Band17-10MHz-QPSK-23790-50RB#0-8.931



Date: 29.JAN.2021 15:01:28

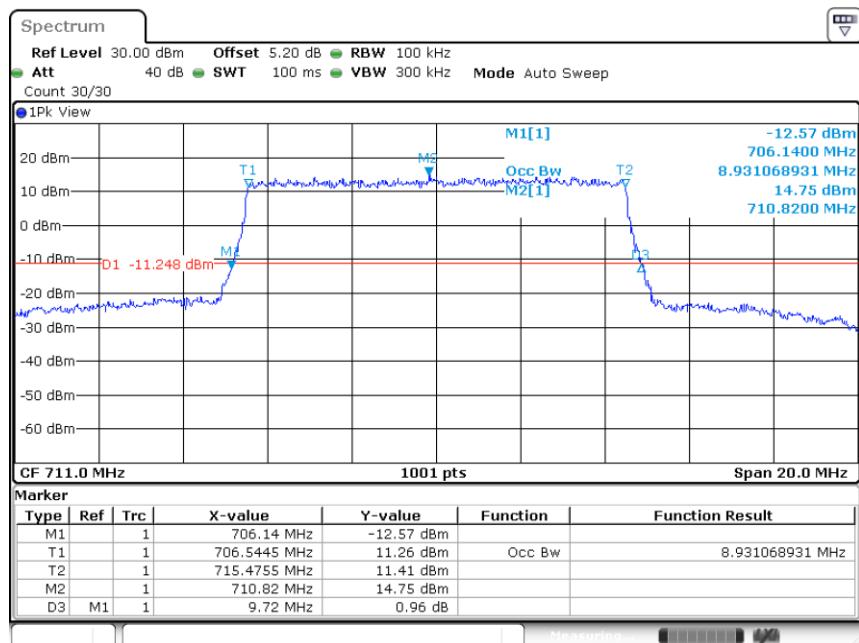
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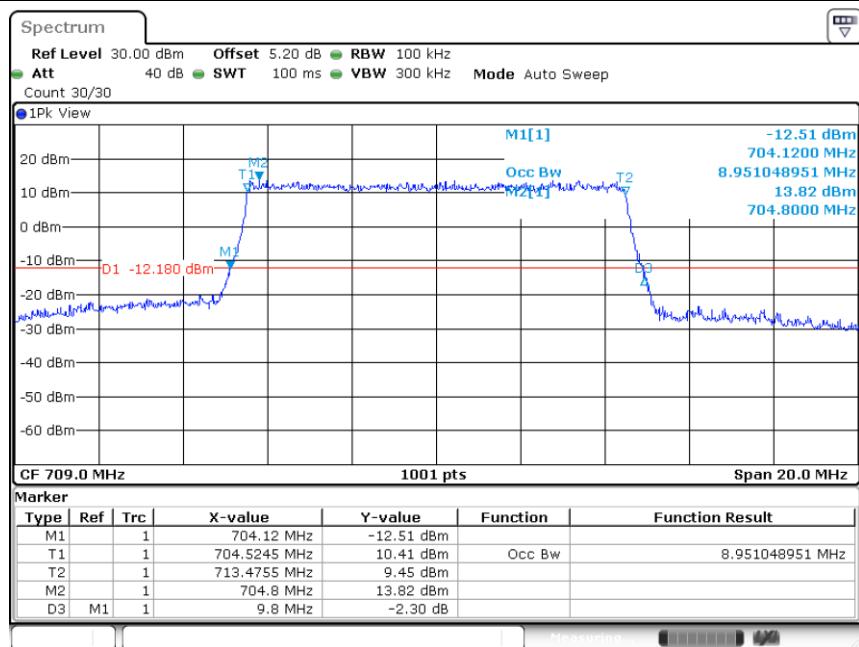
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Band17-10MHz-QPSK-23800-50RB#0-8.931



Date: 29.JAN.2021 15:01:54

Band17-10MHz-16QAM-23780-50RB#0-8.951



Date: 29.JAN.2021 15:01:15

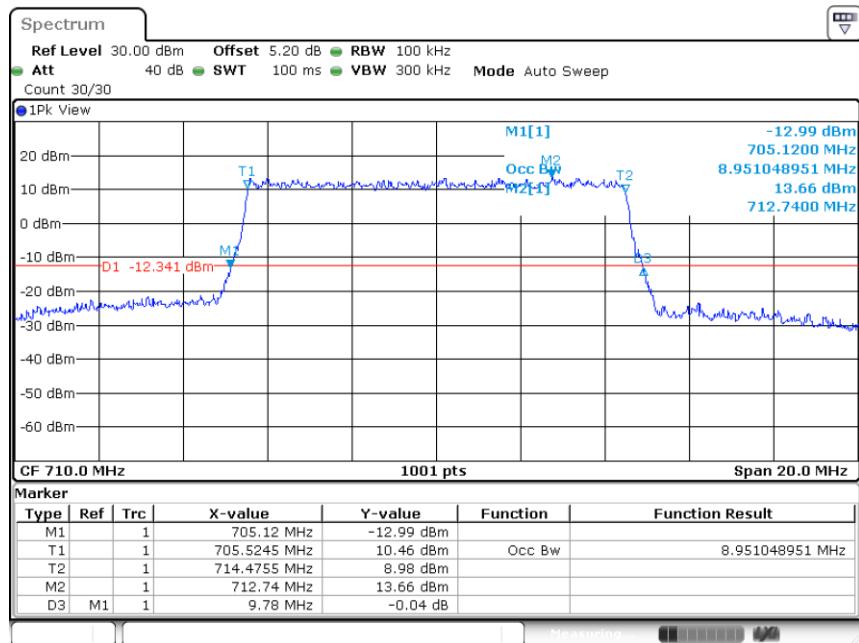
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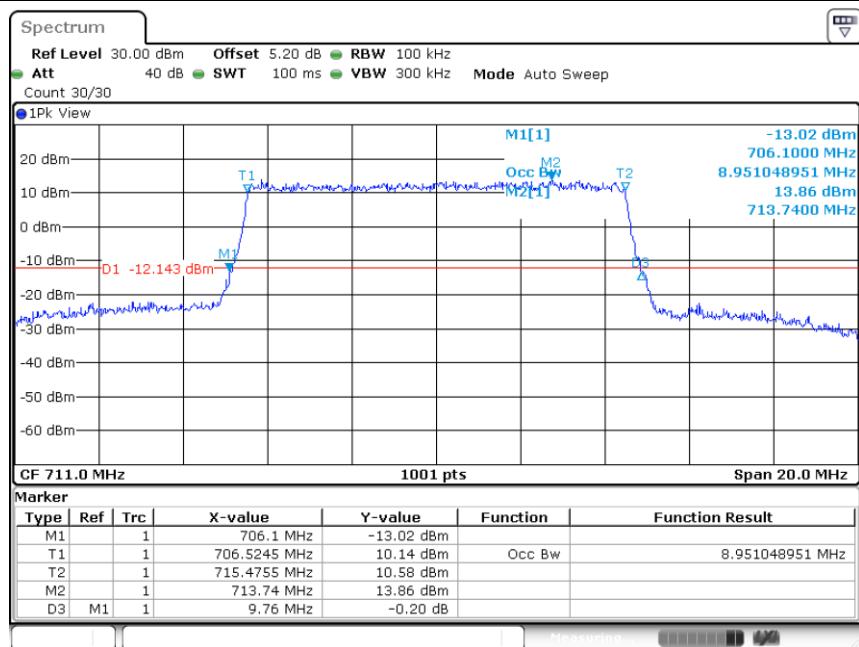
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Band17-10MHz-16QAM-23790-50RB#0-8.951



Date: 29.JAN.2021 15:01:41

Band17-10MHz-16QAM-23800-50RB#0-8.951



Date: 29.JAN.2021 15:02:06

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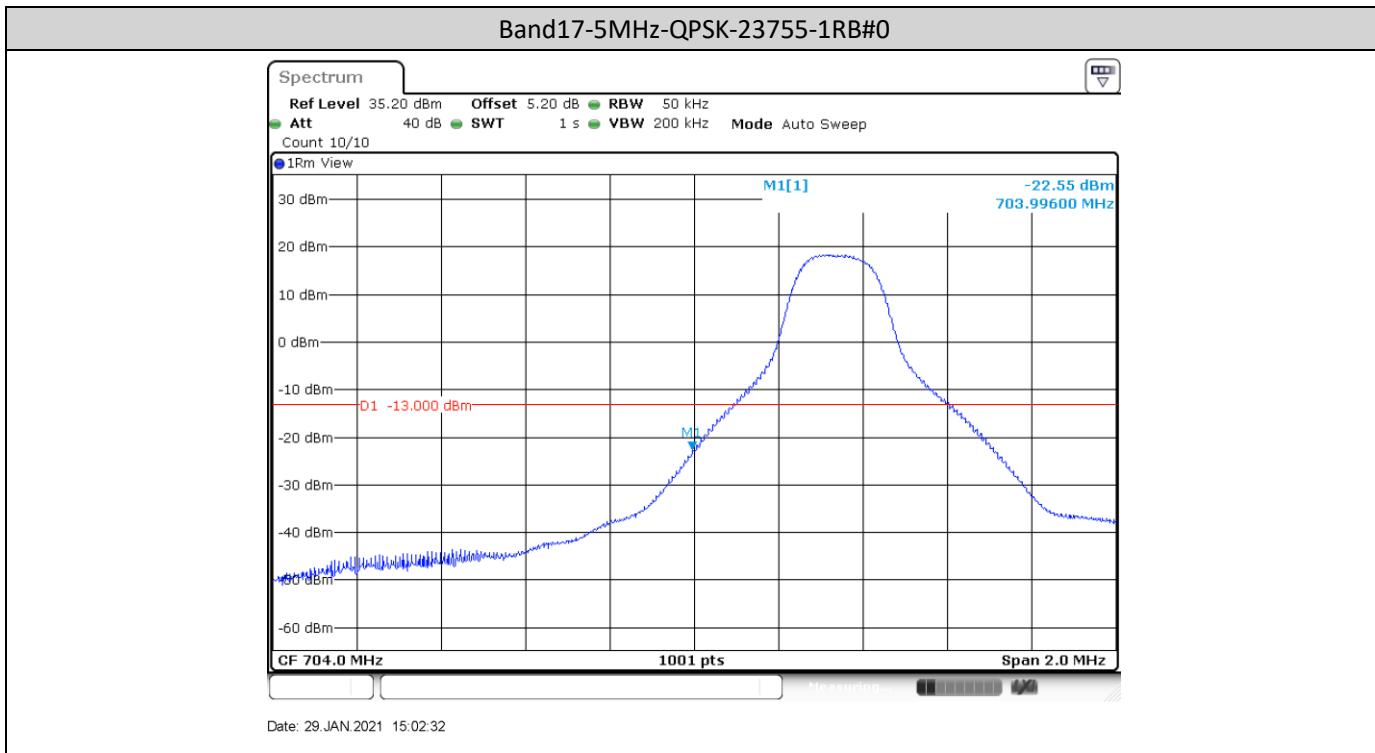
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5. Band Edge Compliance

5.1. Test Plots



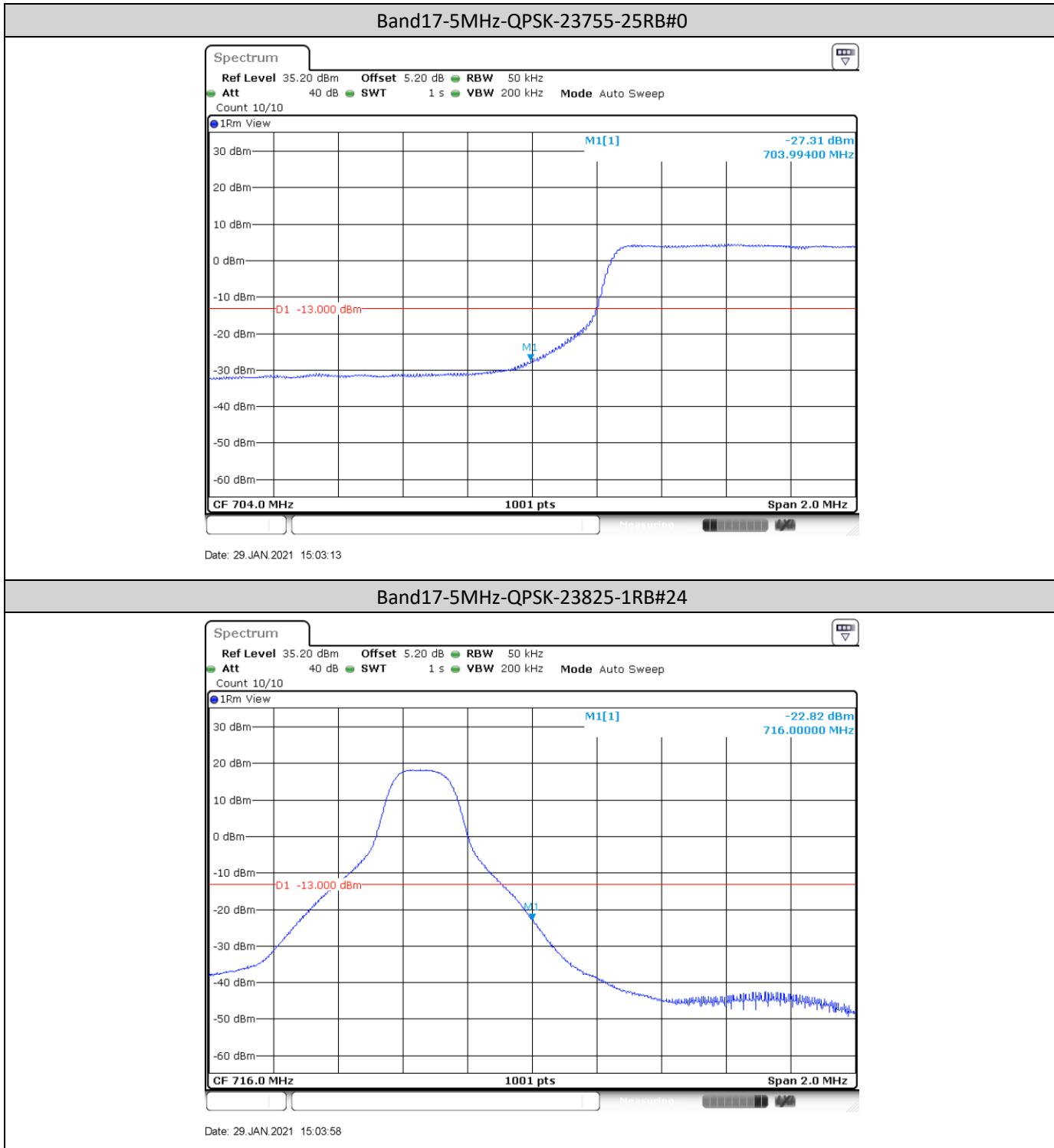
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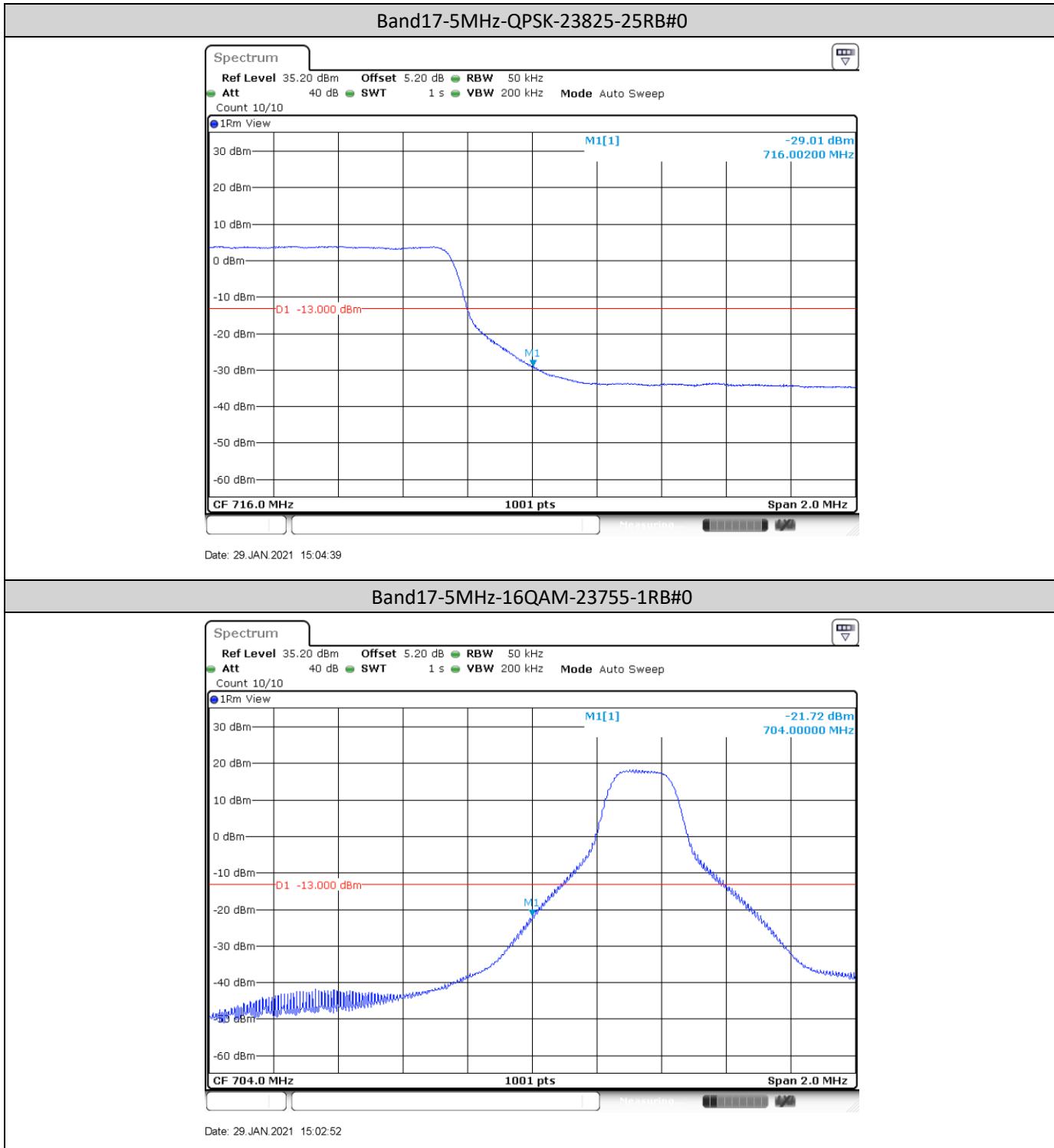


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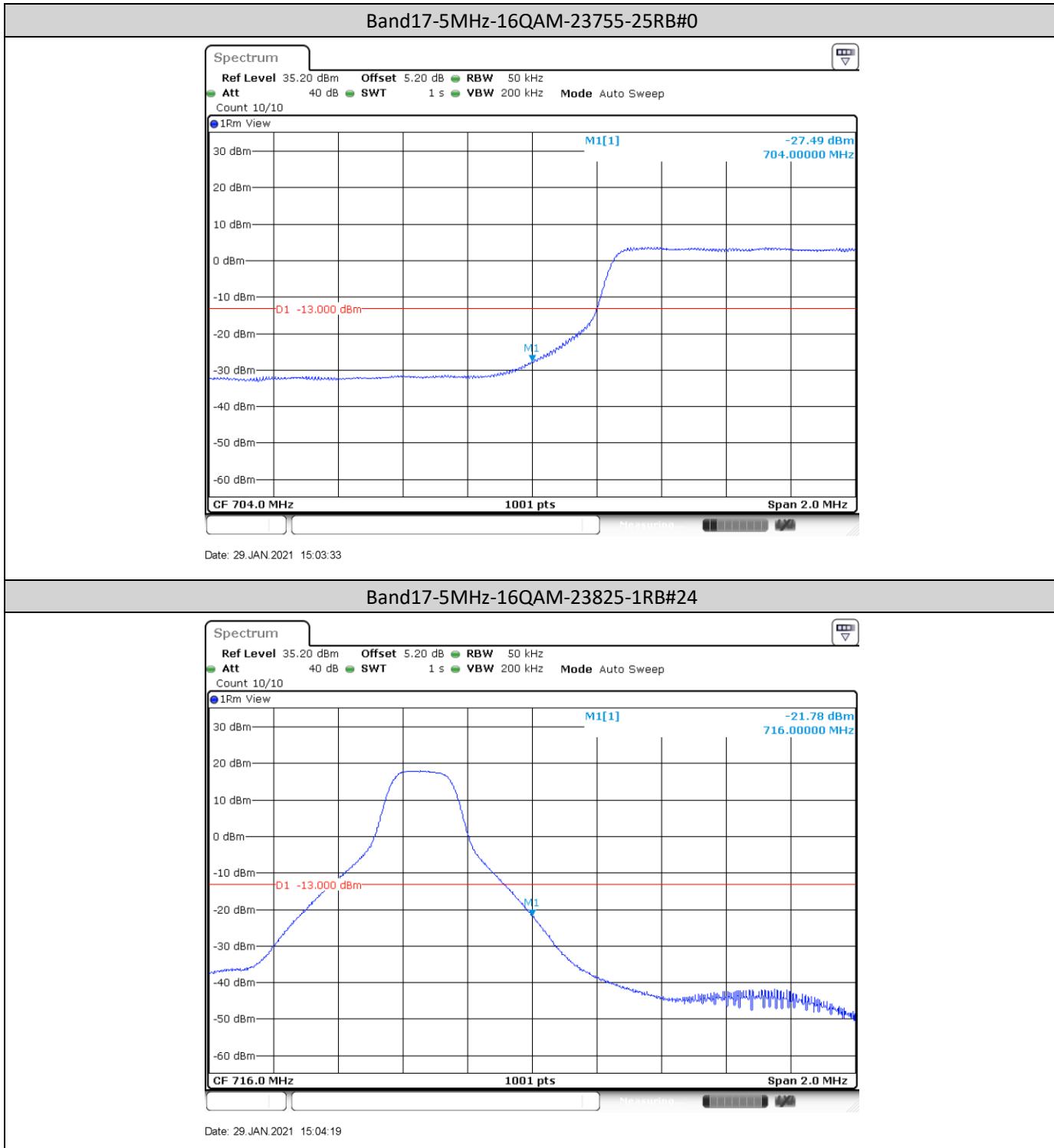


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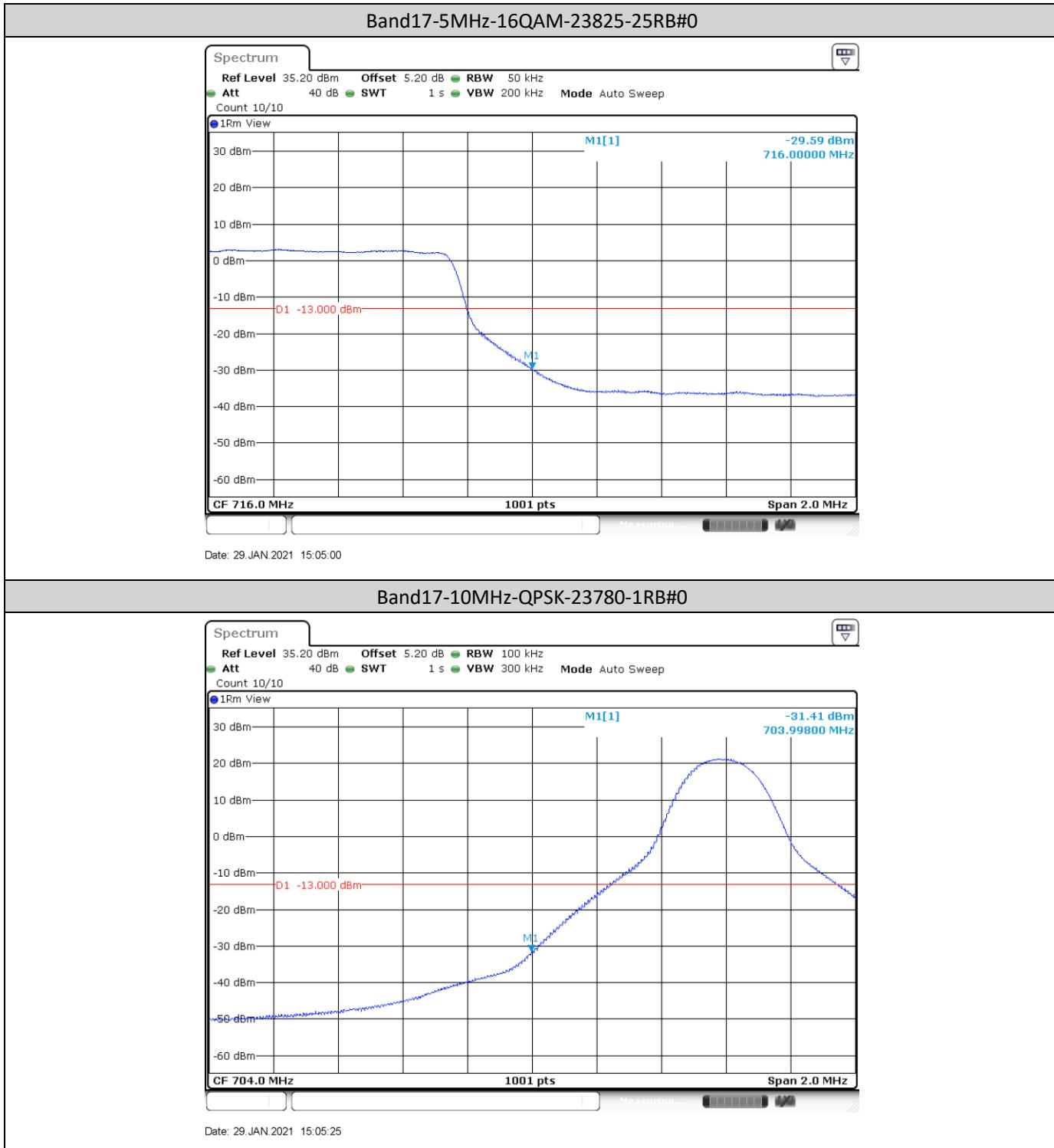


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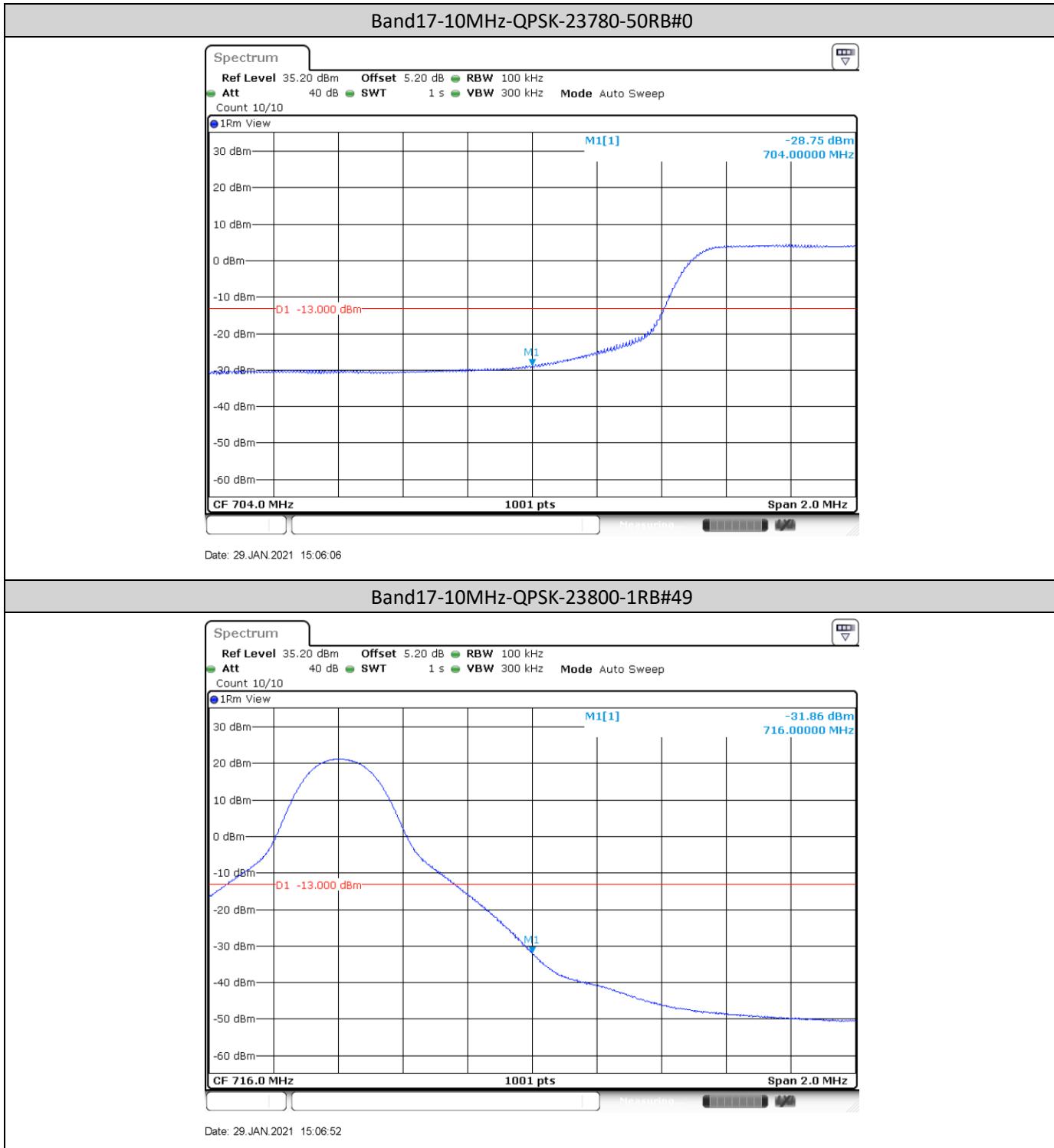


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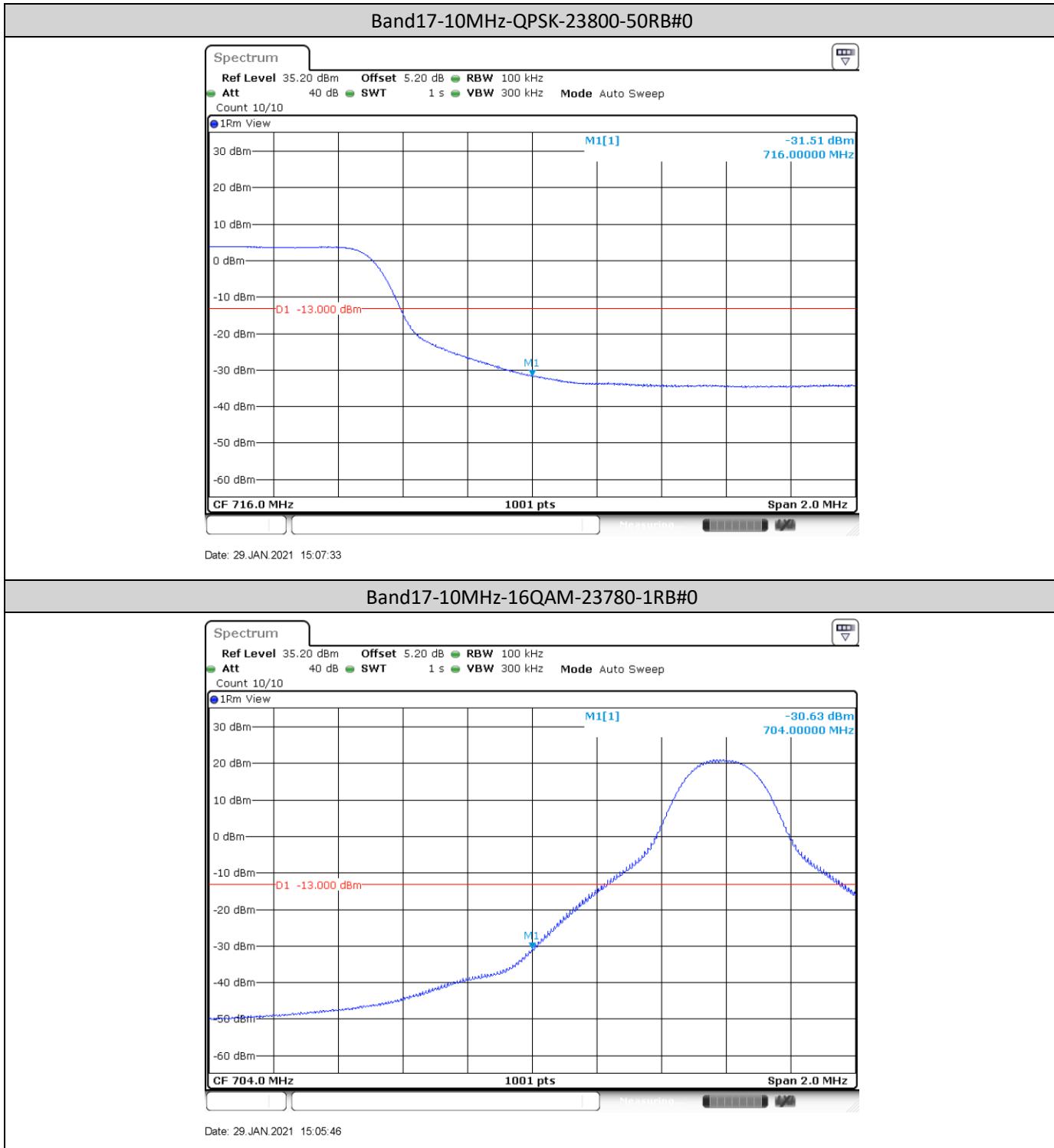


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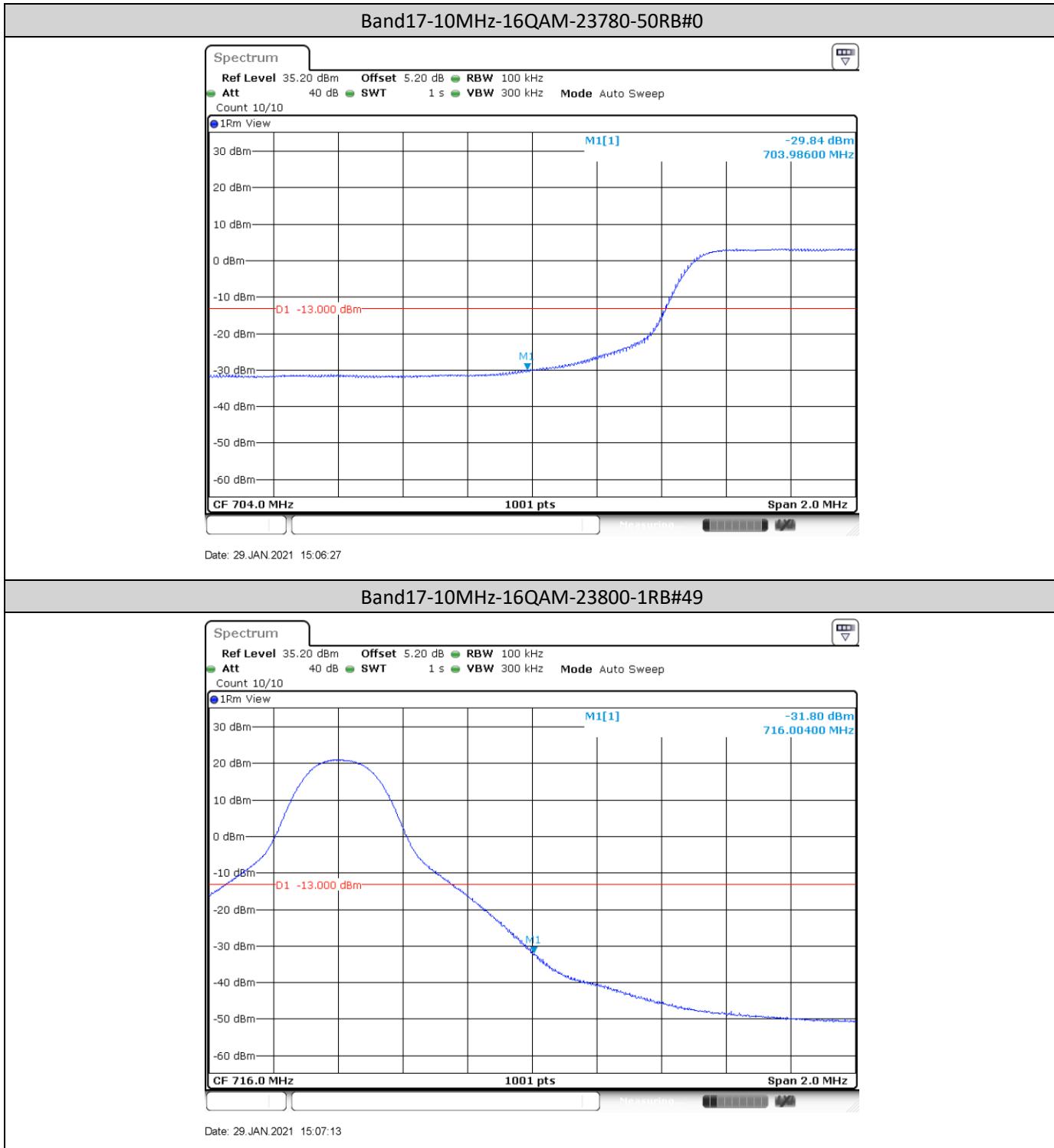


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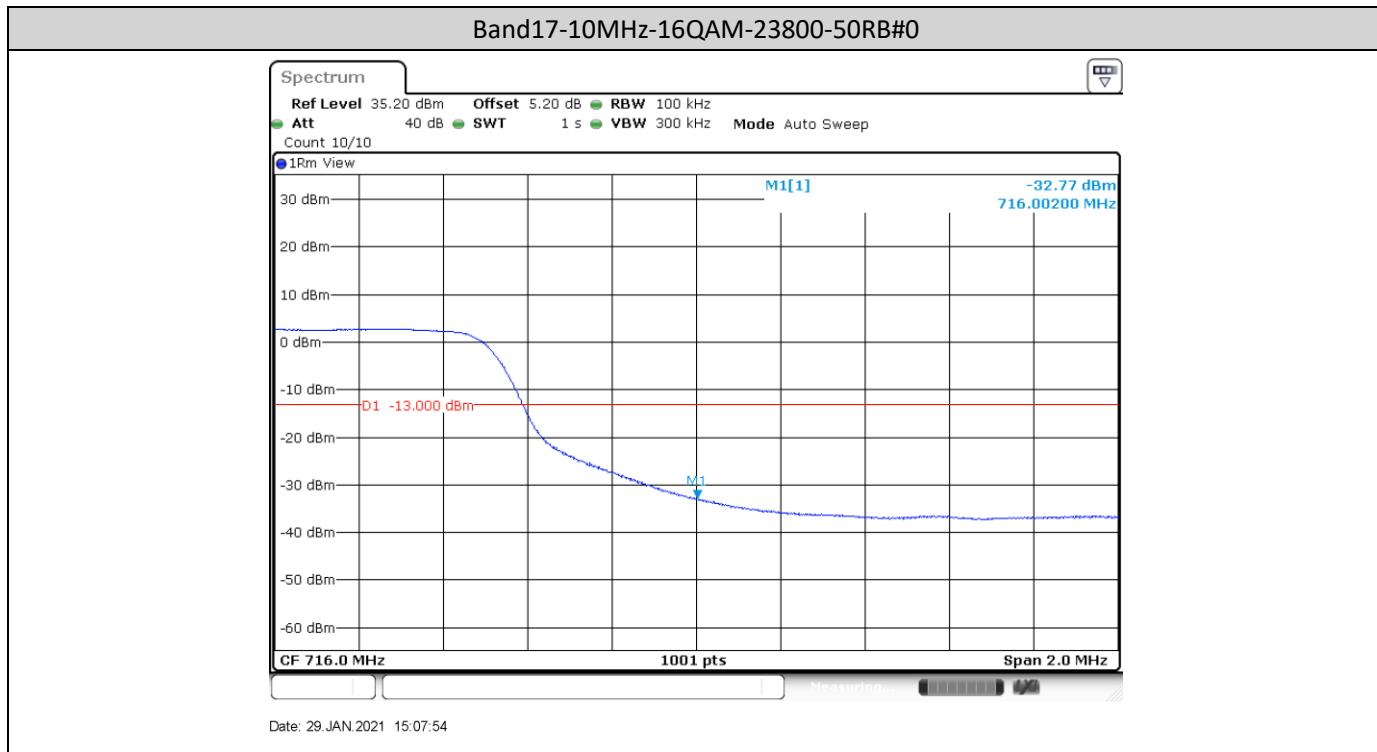


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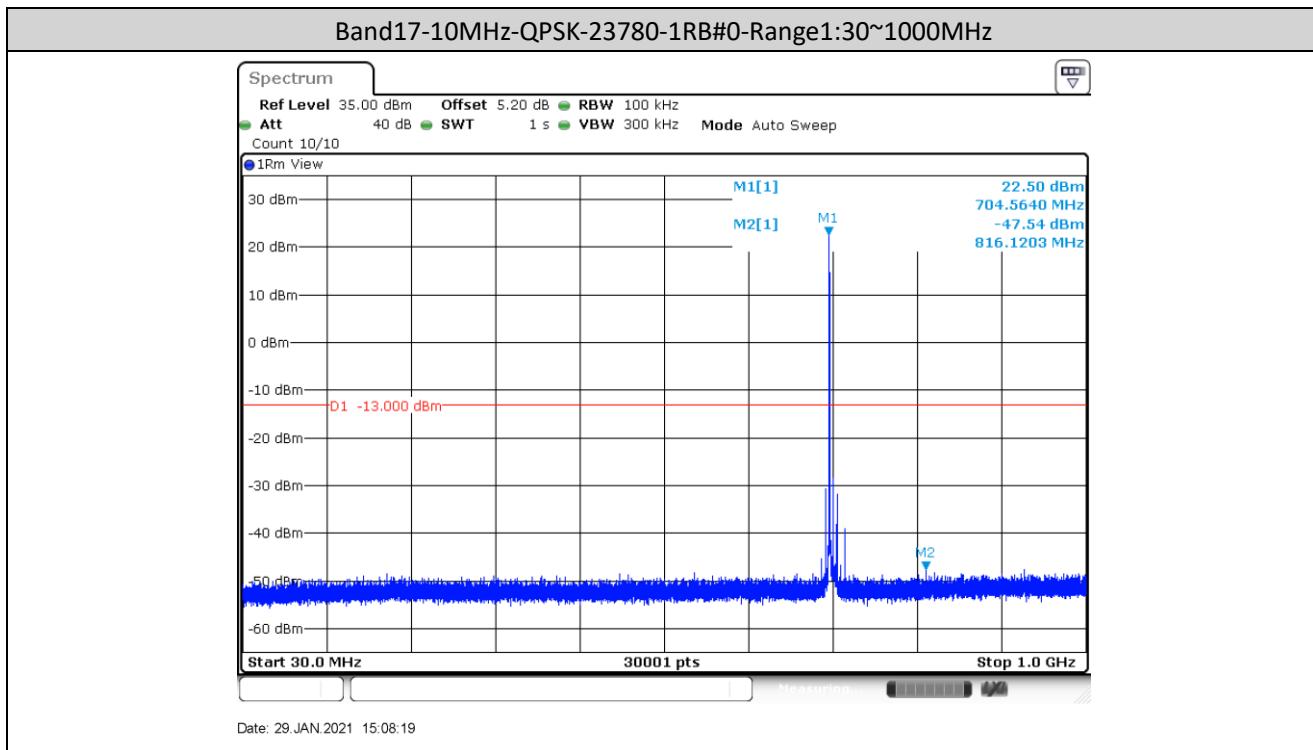
6. Spurious Emission at Antenna Terminal

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: 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.

Remark3: 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.

6.1. Test Plots



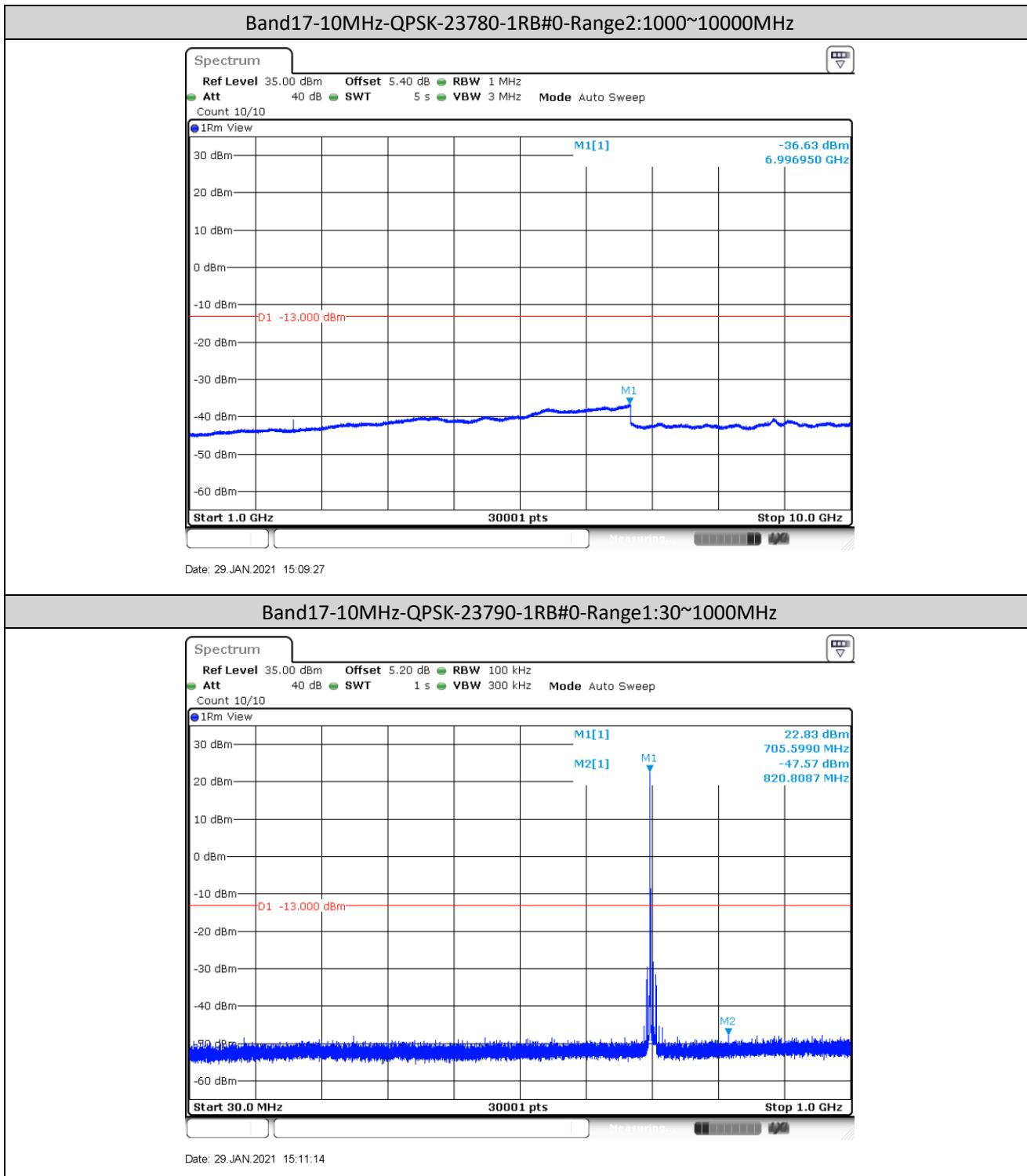
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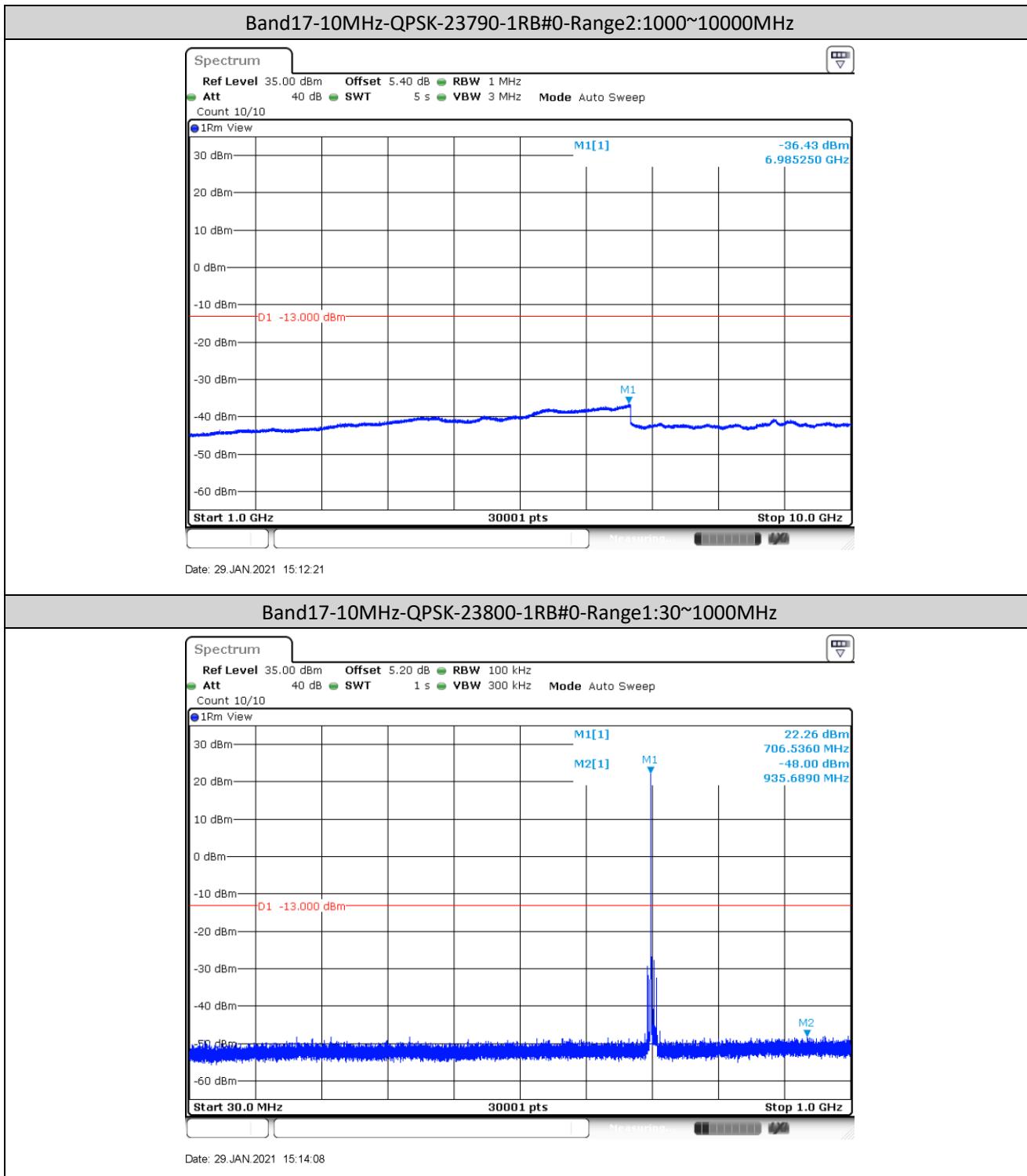


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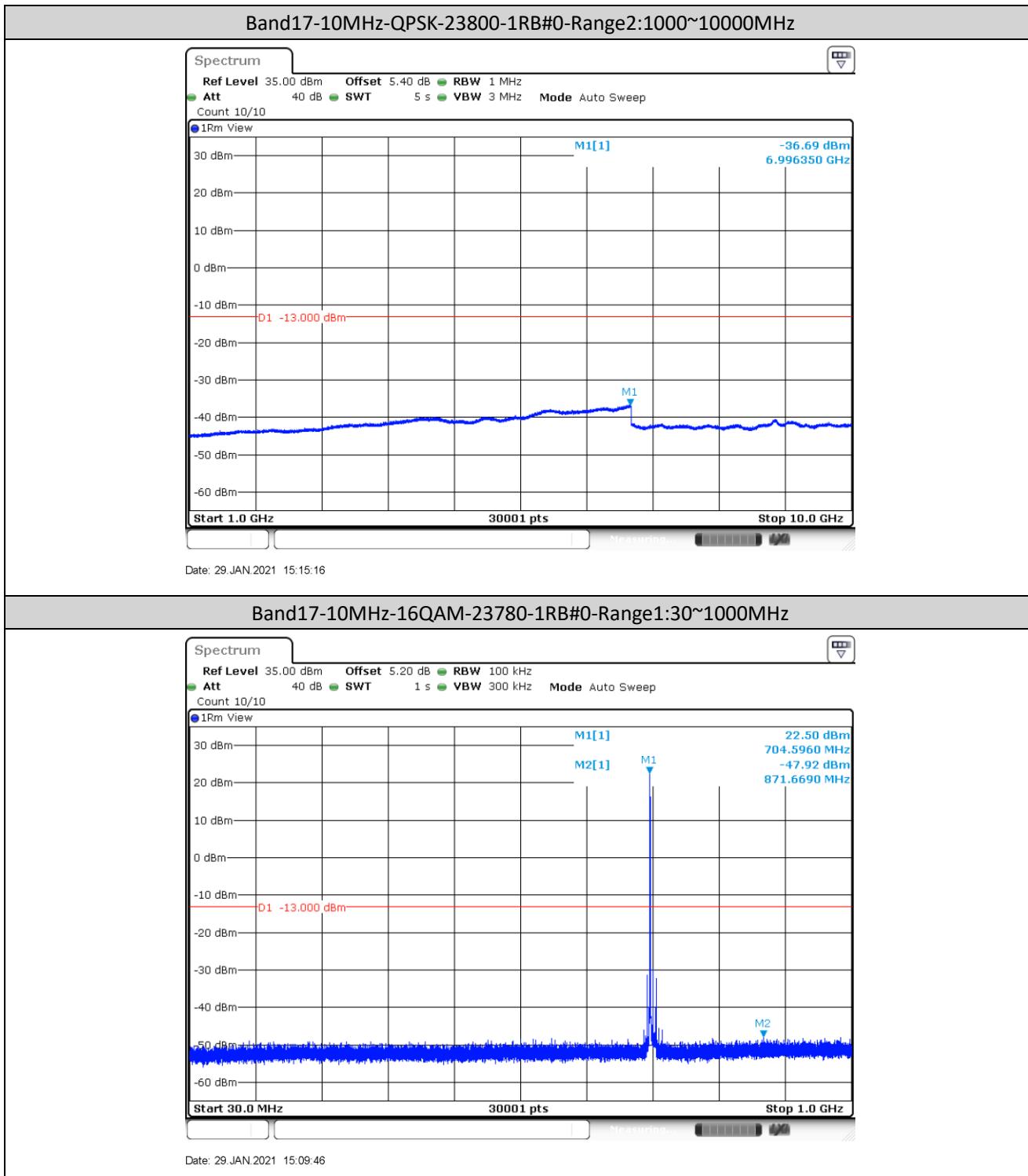


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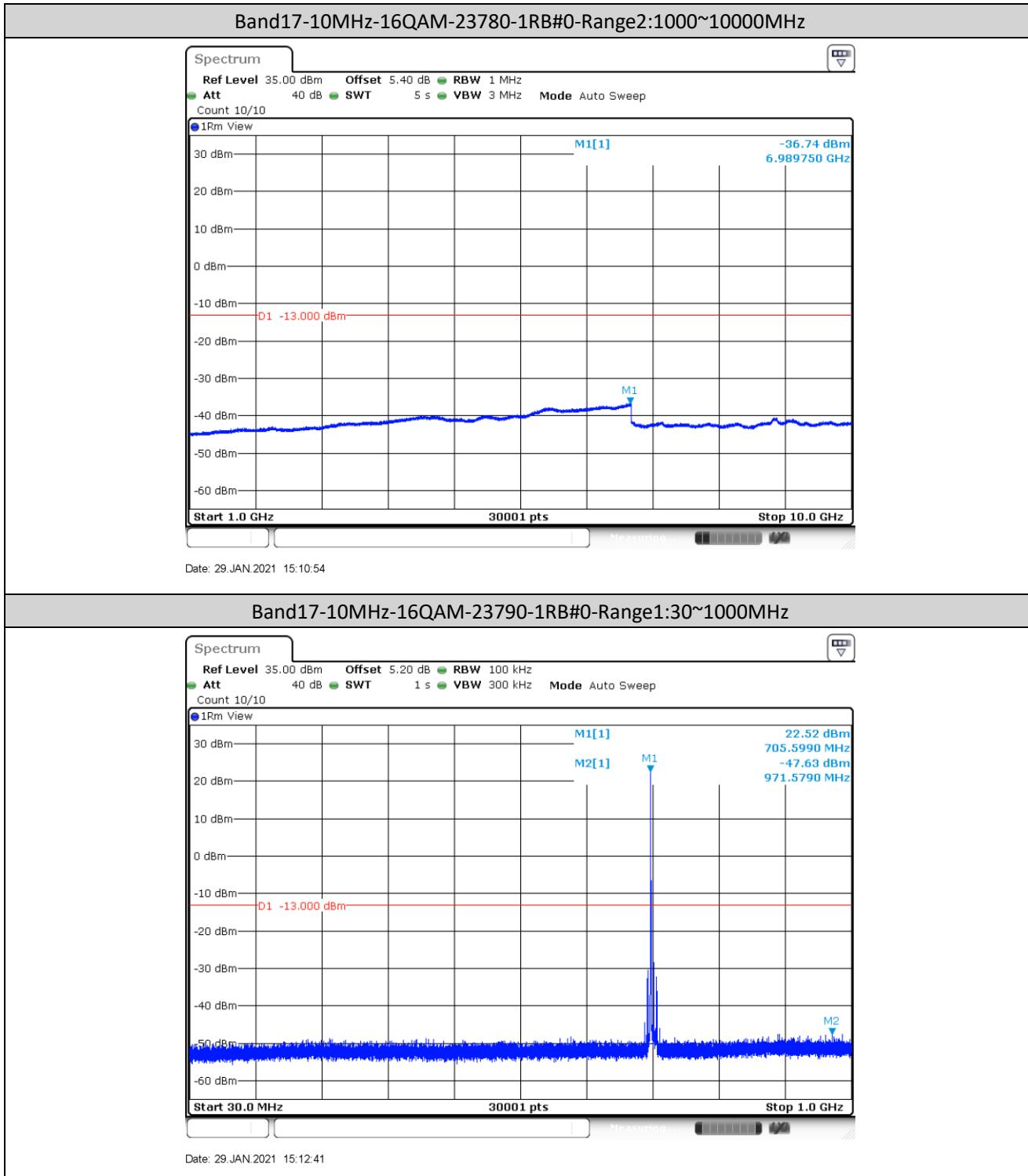


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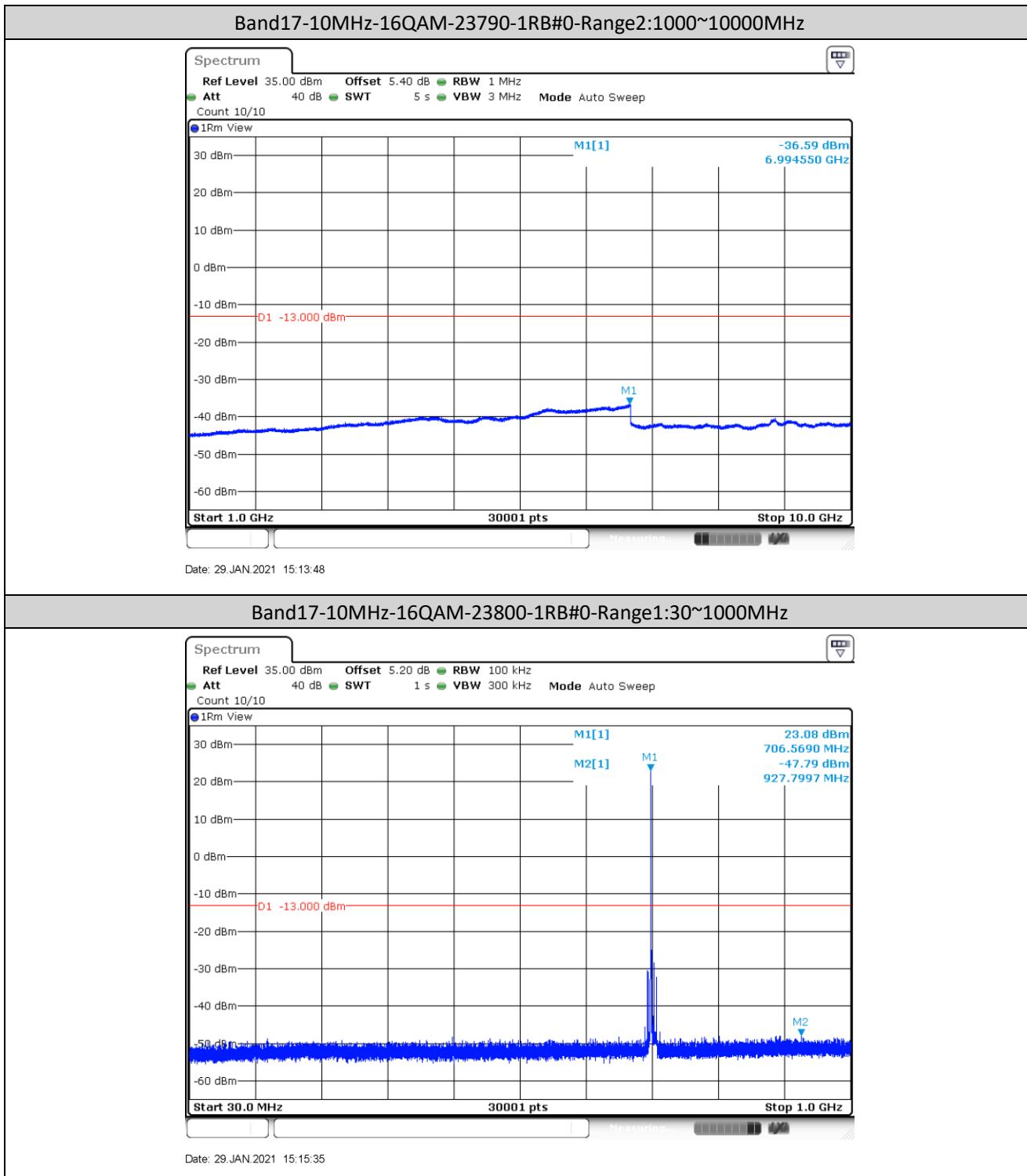


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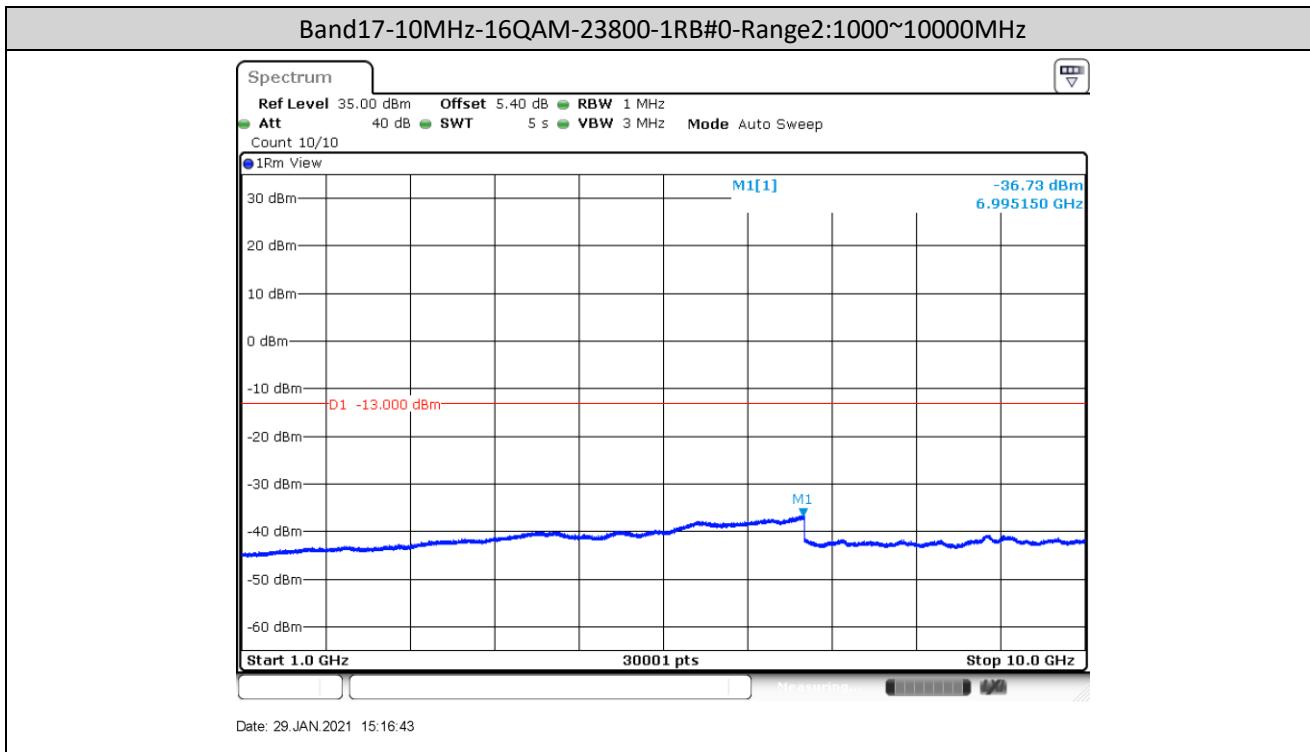


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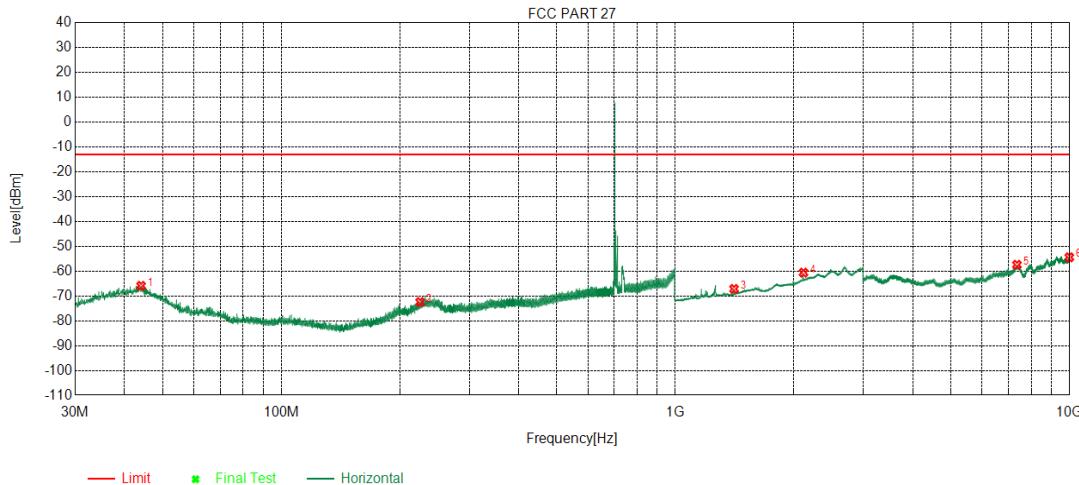
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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_17 _TM1 DOWN ANT

7.1.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1142	-72.87	-65.90	-13.00	52.90	Horizontal
2	225.1738	-74.39	-72.43	-13.00	59.43	Horizontal
3	1408.8818	-69.41	-67.15	-13.00	54.15	Horizontal
4	2113.8228	-68.46	-60.58	-13.00	47.58	Horizontal
5	7356.9743	-57.26	-57.43	-13.00	44.43	Horizontal
6	9987.3995	-59.93	-54.42	-13.00	41.42	Horizontal



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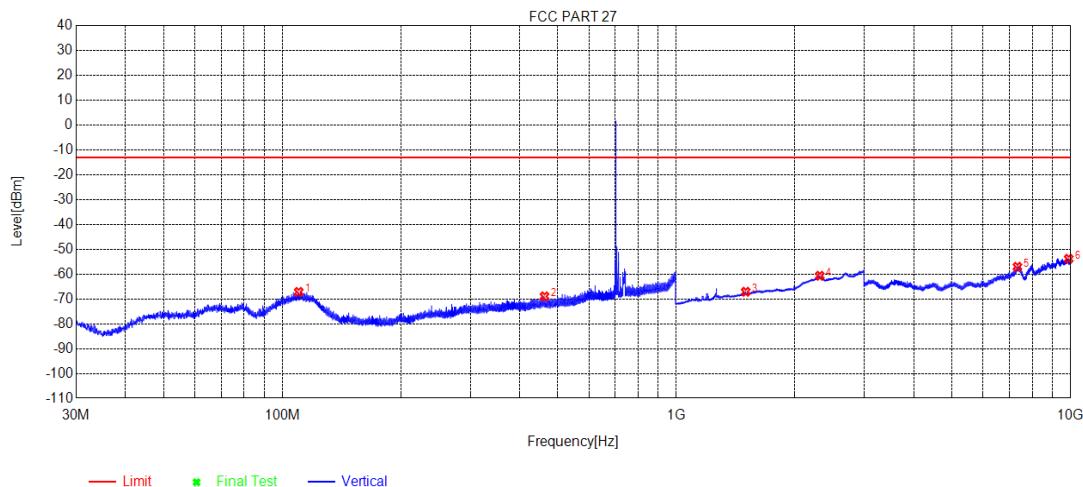
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7.2. Test Band = LTE_17_TM1 DOWN ANT

7.2.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.1260	-73.54	-67.14	-13.00	54.14	Vertical
2	463.0297	-73.27	-68.97	-13.00	55.97	Vertical
3	1499.6999	-70.70	-67.09	-13.00	54.09	Vertical
4	2311.8624	-70.75	-60.64	-13.00	47.64	Vertical
5	7333.1733	-57.52	-57.02	-13.00	44.02	Vertical
6	9896.3959	-60.18	-53.80	-13.00	40.80	Vertical

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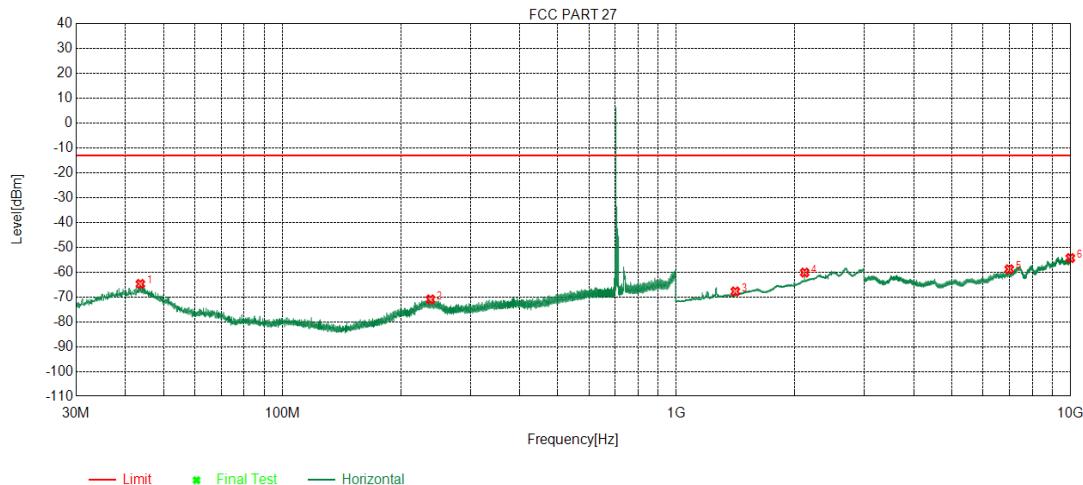
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7.3. Test Band = LTE_17_TM1 DOWN ANT

7.3.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.6777	-71.69	-64.74	-13.00	51.74	Horizontal
2	237.8329	-73.78	-70.98	-13.00	57.98	Horizontal
3	1411.2823	-70.04	-67.75	-13.00	54.75	Horizontal
4	2116.6233	-68.08	-60.17	-13.00	47.17	Horizontal
5	6991.8397	-56.86	-58.82	-13.00	45.82	Horizontal
6	9992.1597	-59.86	-54.32	-13.00	41.32	Horizontal



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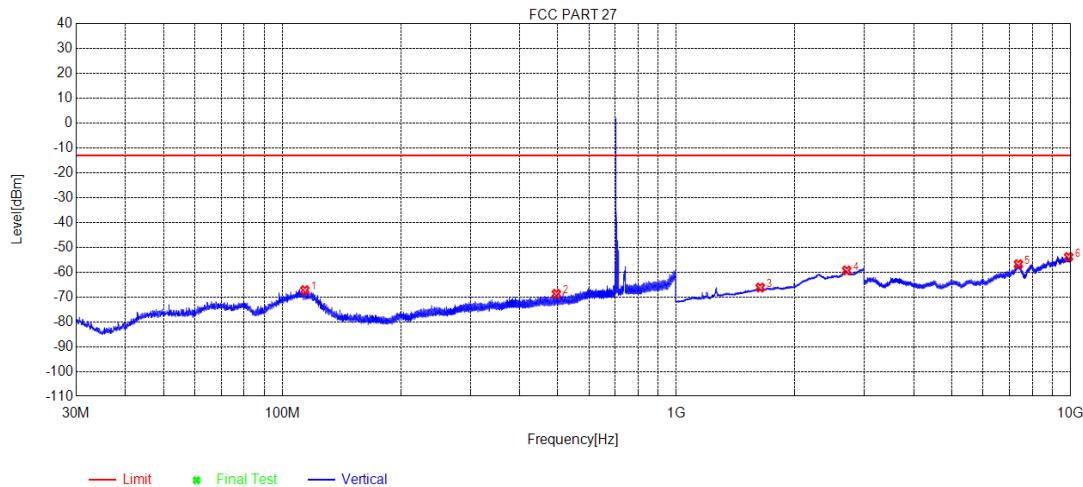
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7.4. Test Band = LTE_17_TM1 DOWN ANT

7.4.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	114.2002	-73.27	-67.23	-13.00	54.23	Vertical
2	496.2053	-73.24	-68.72	-13.00	55.72	Vertical
3	1632.5265	-70.81	-66.19	-13.00	53.19	Vertical
4	2705.5411	-70.92	-59.30	-13.00	46.30	Vertical
5	7376.8551	-57.31	-56.77	-13.00	43.77	Vertical
6	9891.6357	-60.24	-53.85	-13.00	40.85	Vertical

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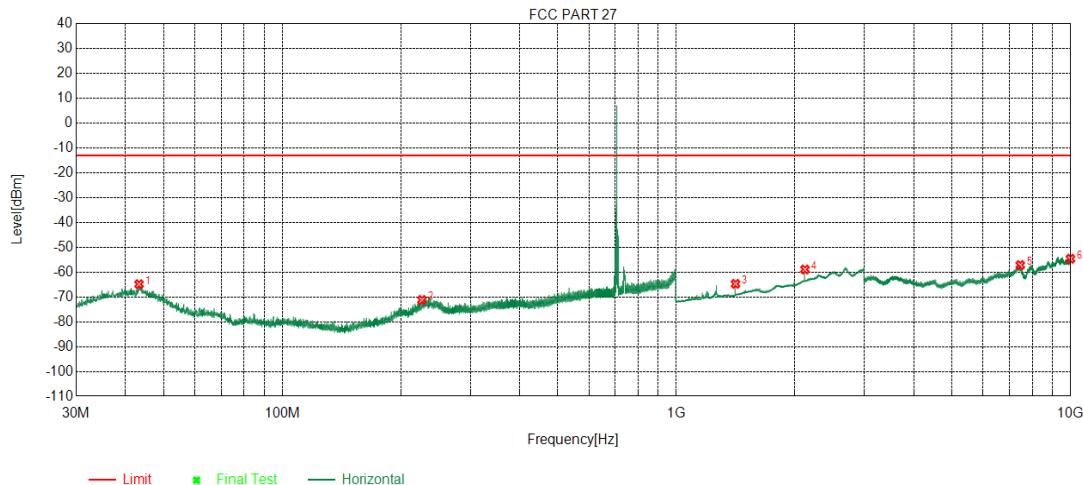
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7.5. Test Band = LTE_17_TM1 DOWN ANT

7.5.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3382	-71.78	-64.85	-13.00	51.85	Horizontal
2	226.3863	-73.39	-71.21	-13.00	58.21	Horizontal
3	1412.8826	-67.02	-64.71	-13.00	51.71	Horizontal
4	2119.8240	-66.85	-58.91	-13.00	45.91	Horizontal
5	7458.0583	-57.10	-57.13	-13.00	44.13	Horizontal
6	9996.9199	-60.16	-54.59	-13.00	41.59	Horizontal

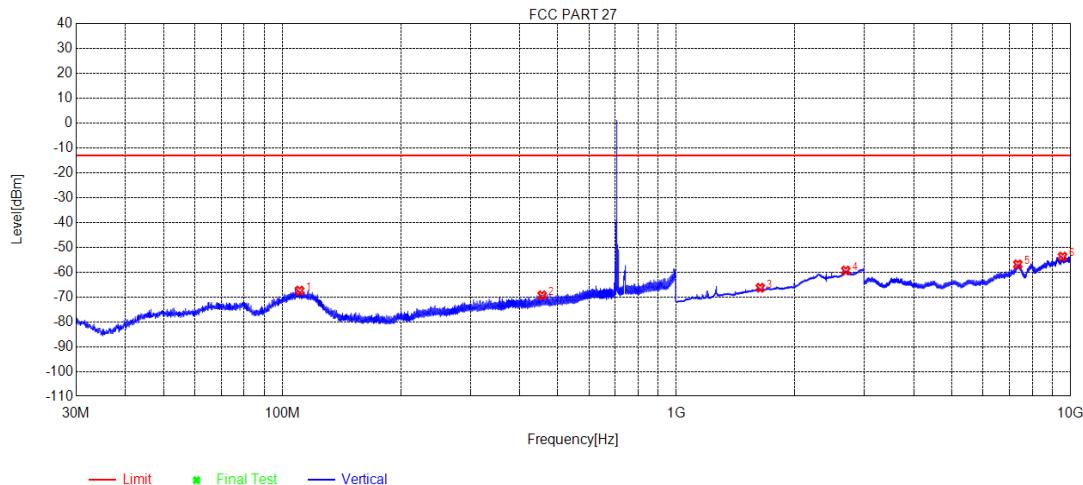
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7.6. Test Band = LTE_17_TM1 DOWN ANT

7.6.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.7565	-73.78	-67.44	-13.00	54.44	Vertical
2	456.4333	-73.56	-69.34	-13.00	56.34	Vertical
3	1632.9266	-70.90	-66.28	-13.00	53.28	Vertical
4	2691.1382	-70.87	-59.36	-13.00	46.36	Vertical
5	7351.9341	-57.40	-56.88	-13.00	43.88	Vertical
6	9546.1018	-59.00	-53.72	-13.00	40.72	Vertical

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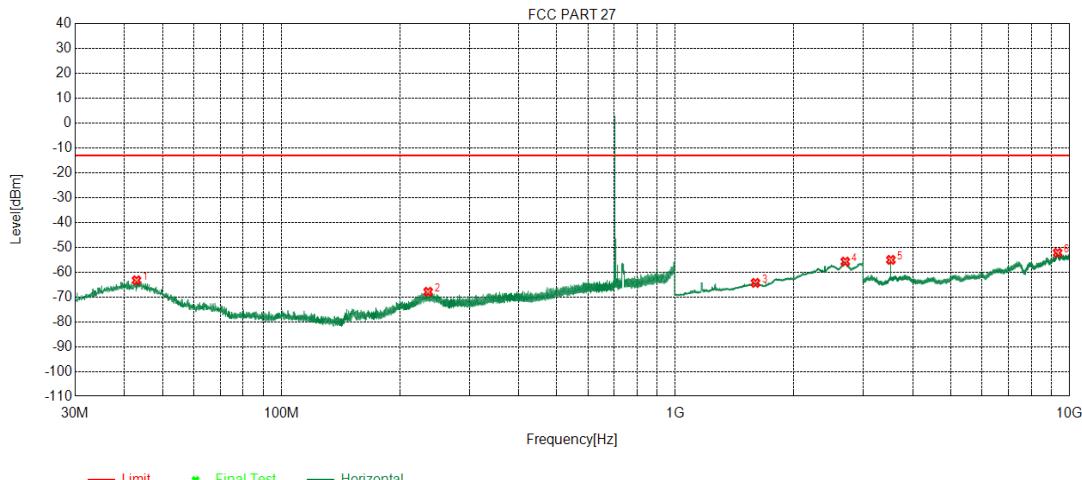
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7.7. Test Band = LTE_17_TM1 UP ANT

7.7.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9501	-70.19	-63.28	-13.00	50.28	Horizontal
2	235.9413	-70.72	-67.91	-13.00	54.91	Horizontal
3	1596.9194	-68.83	-64.33	-13.00	51.33	Horizontal
4	2698.7397	-68.65	-55.76	-13.00	42.76	Horizontal
5	3523.0609	-46.30	-55.04	-13.00	42.04	Horizontal
6	9330.4932	-57.85	-52.20	-13.00	39.20	Horizontal



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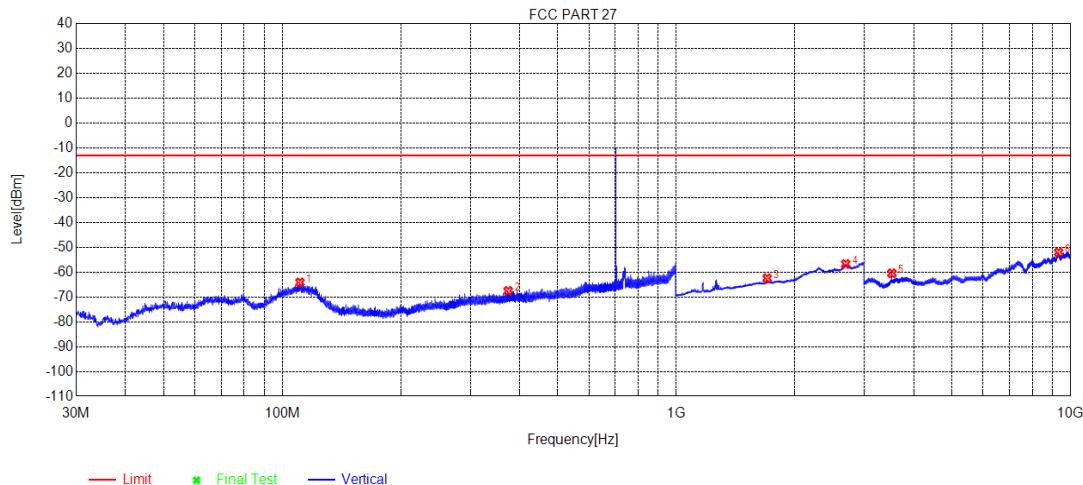
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7.8. Test Band = LTE_17_TM1 UP ANT

7.8.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.9505	-70.46	-64.13	-13.00	51.13	Vertical
2	374.4157	-70.51	-67.56	-13.00	54.56	Vertical
3	1699.7399	-67.32	-62.47	-13.00	49.47	Vertical
4	2690.3381	-68.19	-56.70	-13.00	43.70	Vertical
5	3523.0609	-50.62	-60.45	-13.00	47.45	Vertical
6	9332.4533	-57.79	-52.00	-13.00	39.00	Vertical

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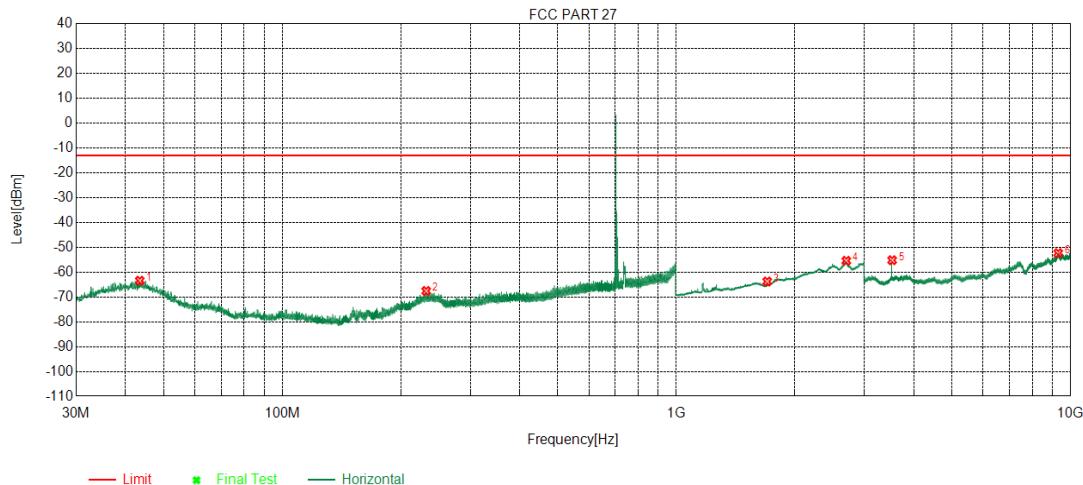
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7.9. Test Band = LTE_17_TM1 UP ANT

7.9.1. Test Channel = Mid Channel

Test Graph



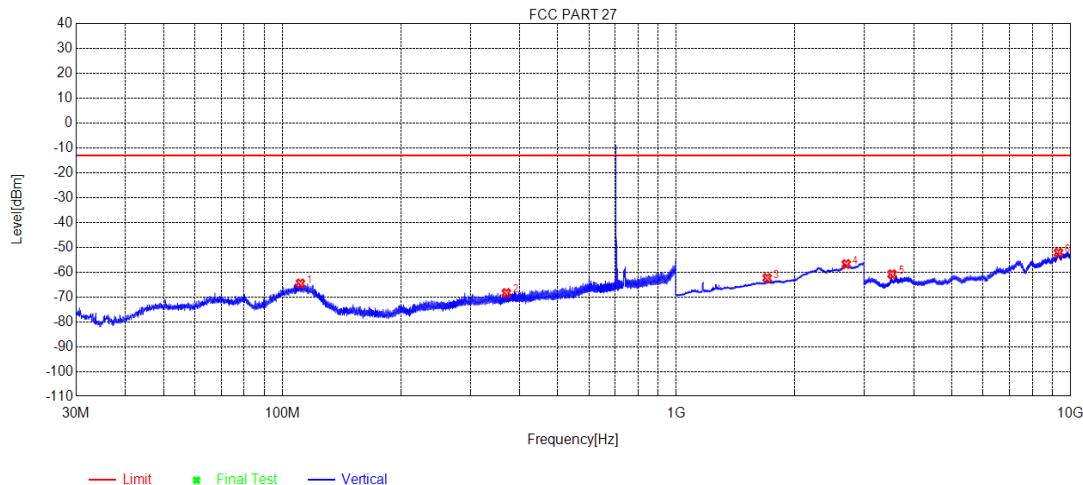
Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.5322	-70.37	-63.43	-13.00	50.43	Horizontal
2	231.9156	-70.40	-67.58	-13.00	54.58	Horizontal
3	1700.1400	-67.31	-63.76	-13.00	50.76	Horizontal
4	2699.1398	-68.33	-55.42	-13.00	42.42	Horizontal
5	3527.8211	-46.48	-55.18	-13.00	42.18	Horizontal
6	9307.5323	-58.19	-52.32	-13.00	39.32	Horizontal



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7.10. Test Band = LTE_17_TM1 UP ANT**7.10.1. Test Channel = Mid Channel****Test Graph**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.2416	-70.83	-64.53	-13.00	51.53	Vertical
2	370.3900	-71.12	-68.40	-13.00	55.40	Vertical
3	1699.7399	-67.21	-62.36	-13.00	49.36	Vertical
4	2697.9396	-68.37	-56.74	-13.00	43.74	Vertical
5	3527.8211	-51.04	-60.83	-13.00	47.83	Vertical
6	9319.8528	-58.06	-52.15	-13.00	39.15	Vertical



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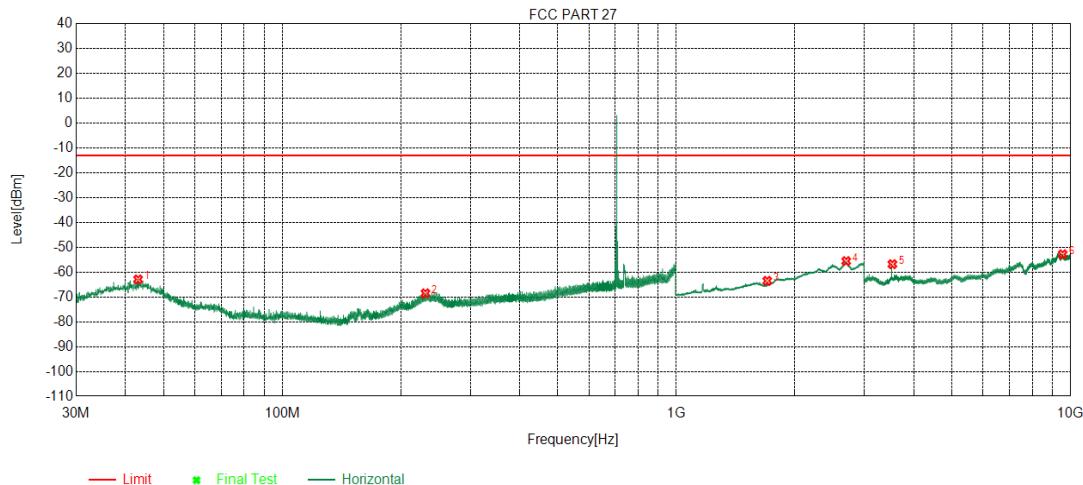
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7.11. Test Band = LTE_17_TM1 UP ANT

7.11.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.0957	-69.84	-62.92	-13.00	49.92	Horizontal
2	230.9455	-71.35	-68.52	-13.00	55.52	Horizontal
3	1700.1400	-67.05	-63.50	-13.00	50.50	Horizontal
4	2697.1394	-68.39	-55.54	-13.00	42.54	Horizontal
5	3533.1413	-48.13	-56.78	-13.00	43.78	Horizontal
6	9553.6621	-57.78	-52.80	-13.00	39.80	Horizontal

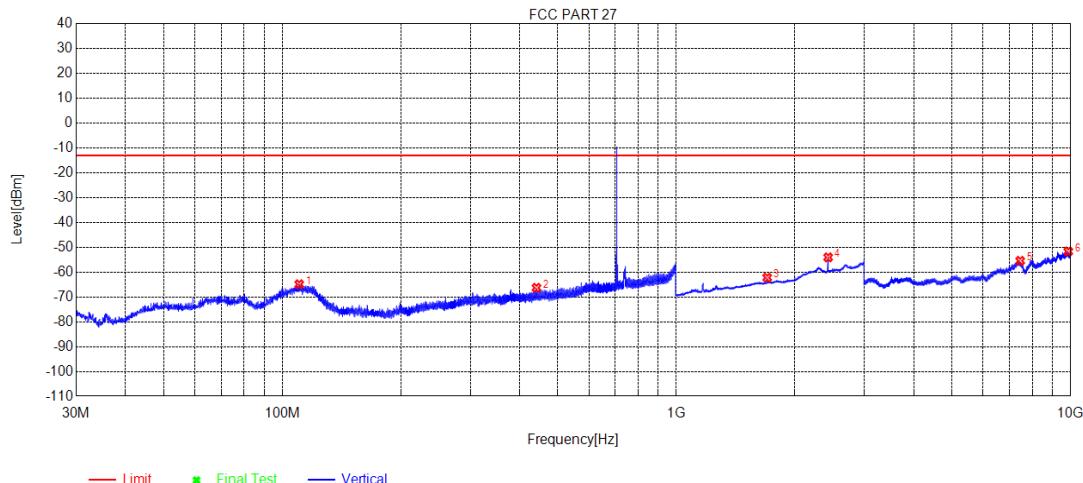


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7.12. Test Band = LTE_17_TM1 UP ANT**7.12.1. Test Channel = High Channel****Test Graph**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.4655	-71.26	-64.89	-13.00	51.89	Vertical
2	441.7856	-70.10	-66.31	-13.00	53.31	Vertical
3	1700.1400	-67.07	-62.22	-13.00	49.22	Vertical
4	2427.4855	-63.18	-54.03	-13.00	41.03	Vertical
5	7454.1382	-55.74	-55.44	-13.00	42.44	Vertical
6	9872.5949	-58.07	-51.65	-13.00	38.65	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 above 18G and 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 (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	3.00	0.004231	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.20	0.003103	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	1.30	0.001831	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	2.30	0.003239	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	2.10	0.002958	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	1.70	0.002391	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.60	0.000846	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	0.90	0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	2.70	0.003803	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-2.70	-0.003797	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	0.80	0.001125	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	1.50	0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	1.30	0.001834	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	0.50	0.000705	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-0.90	-0.001269	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	2.70	0.003803	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	2.80	0.003944	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-1.30	-0.001831	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	1.80	0.002535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.90	-0.001268	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-0.20	-0.000282	±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	-20	0.30	0.000422	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	0.20	0.000281	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	1.30	0.001828	±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	0.70	0.000985	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	1.10	0.001547	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-0.50	-0.000703	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	0.30	0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	2.10	0.002962	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	1.80	0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	1.10	0.001551	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-0.10	-0.000141	±2.5	PASS

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Band17	10MHz	16QAM	23780	50RB#0	NV	40	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-0.70	-0.000987	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	2.60	0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	2.20	0.003099	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	0.90	0.001268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	1.00	0.001408	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	0.60	0.000845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	1.40	0.001972	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	1.60	0.002254	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	0.80	0.001127	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-1.00	-0.001406	±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	0	-1.50	-0.002110	±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	20	-2.90	-0.004079	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS

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