



Appendix B

E-UTRA Band 17



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#12	24.85	19.90	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	24.58	19.63	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.54	19.59	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.77	18.82	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.75	18.80	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.68	18.73	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.71	18.76	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.61	19.66	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.56	19.61	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.85	19.90	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.76	18.81	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.69	18.74	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.76	18.81	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.73	18.78	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.49	19.54	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.78	19.83	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.55	19.60	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.73	18.78	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.67	18.72	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.56	18.61	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.65	18.70	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.66	17.71	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.68	17.73	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.91	17.96	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	21.57	16.62	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	21.67	16.72	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	21.66	16.71	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	21.64	16.69	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.54	17.59	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.90	17.95	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.62	17.67	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	21.63	16.68	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	21.71	16.76	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	21.70	16.75	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.68	16.73	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.59	17.64	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.52	17.57	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.89	17.94	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	21.65	16.70	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	21.52	16.57	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	21.63	16.68	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.60	16.65	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.82	18.87	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.76	18.81	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.11	19.16	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.66	17.71	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.76	17.81	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.72	17.77	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.69	17.74	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.78	18.83	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.04	19.09	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.74	18.79	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.75	17.80	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.69	17.74	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.75	17.80	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.72	17.77	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	24.04	19.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.71	18.76	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.72	18.77	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.66	17.71	34.77	PASS



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Band17	5MHz	16QAM	23825	12RB#6	22.71	17.76	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.59	17.64	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.65	17.70	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.68	19.73	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.60	19.65	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.78	19.83	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.83	18.88	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.75	18.80	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.79	18.84	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.79	18.84	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.60	19.65	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.72	19.77	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.79	19.84	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.84	18.89	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.77	18.82	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.73	18.78	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.82	18.87	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.69	19.74	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.74	19.79	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.61	19.66	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.71	18.76	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.86	18.91	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.75	18.80	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.78	18.83	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.69	17.74	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.82	17.87	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.79	17.84	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	21.66	16.71	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	21.77	16.82	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	21.72	16.77	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.74	16.79	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.85	17.90	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.73	17.78	34.77	PASS



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Band17	10MHz	64QAM	23790	1RB#0	22.75	17.80	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.72	16.77	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.77	16.82	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.68	16.73	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.75	16.80	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.78	17.83	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.82	17.87	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.61	17.66	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.81	16.86	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.71	16.76	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.68	16.73	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.73	16.78	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.00	19.05	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.86	18.91	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.84	18.89	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.81	17.86	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.73	17.78	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.75	17.80	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.79	17.84	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.89	18.94	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.97	19.02	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.82	18.87	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.75	17.80	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.72	17.77	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.80	17.85	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.80	17.85	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.88	18.93	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.91	18.96	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.80	18.85	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.82	17.87	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.74	17.79	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.69	17.74	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.75	17.80	34.77	PASS



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Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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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
Band1 7	10MHz	QPSK	23780	50RB#0	5.25	13	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	5.22	13	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	5.22	13	PASS
Band1 7	10MHz	64QAM	23780	50RB#0	6.32	13	PASS
Band1 7	10MHz	64QAM	23790	50RB#0	6.32	13	PASS
Band1 7	10MHz	64QAM	23800	50RB#0	6.35	13	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	5.91	13	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	5.94	13	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	6.00	13	PASS



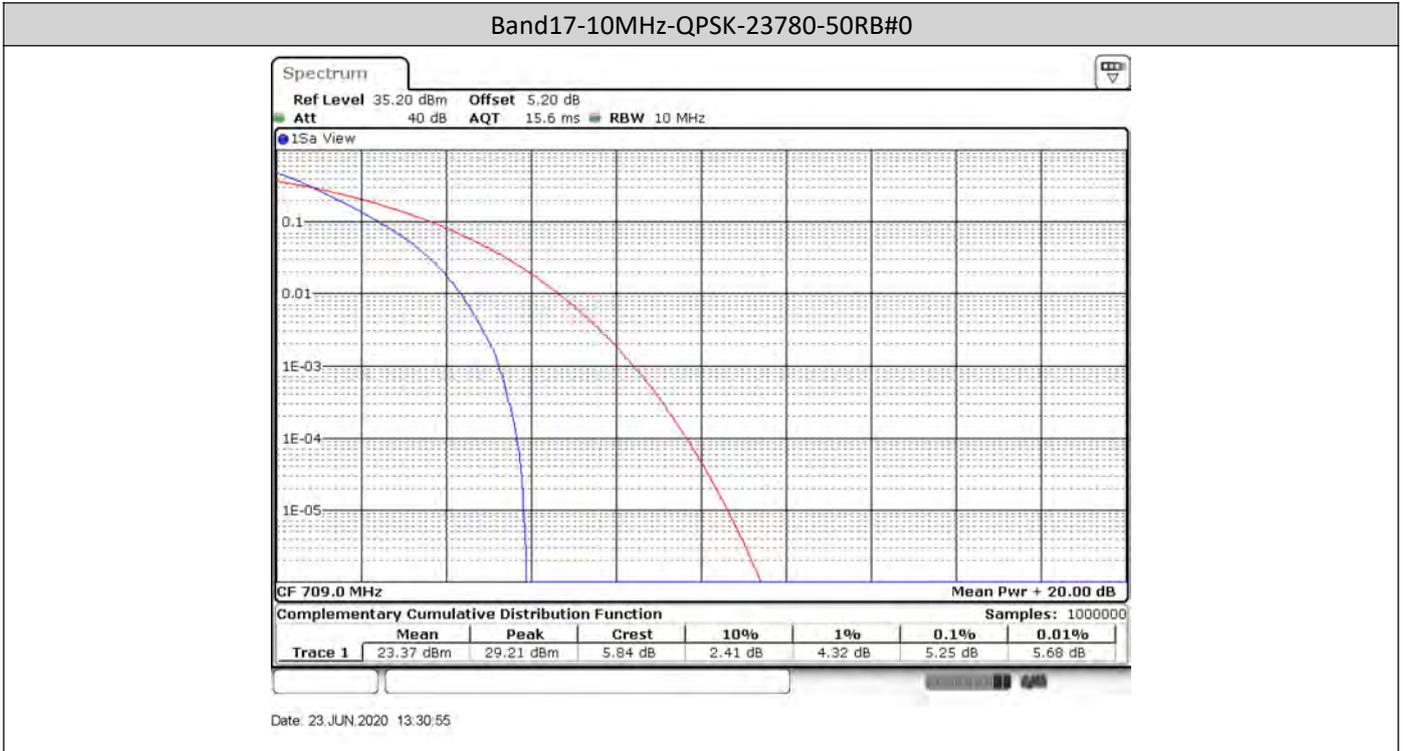
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2.2. Test Plots



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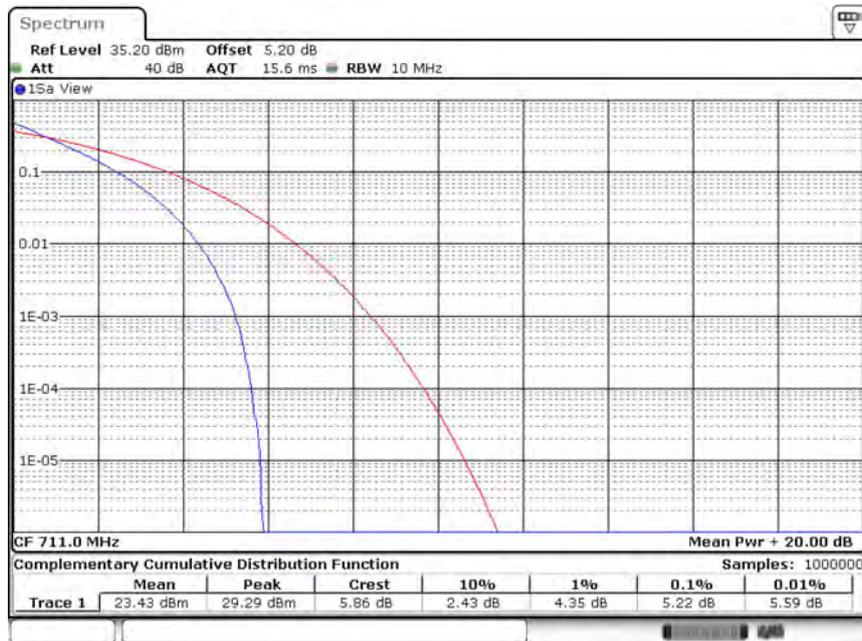
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Band17-10MHz-QPSK-23790-50RB#0



Date: 23 JUN 2020 13:31:24

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



Date: 23 JUN 2020 13:31:46

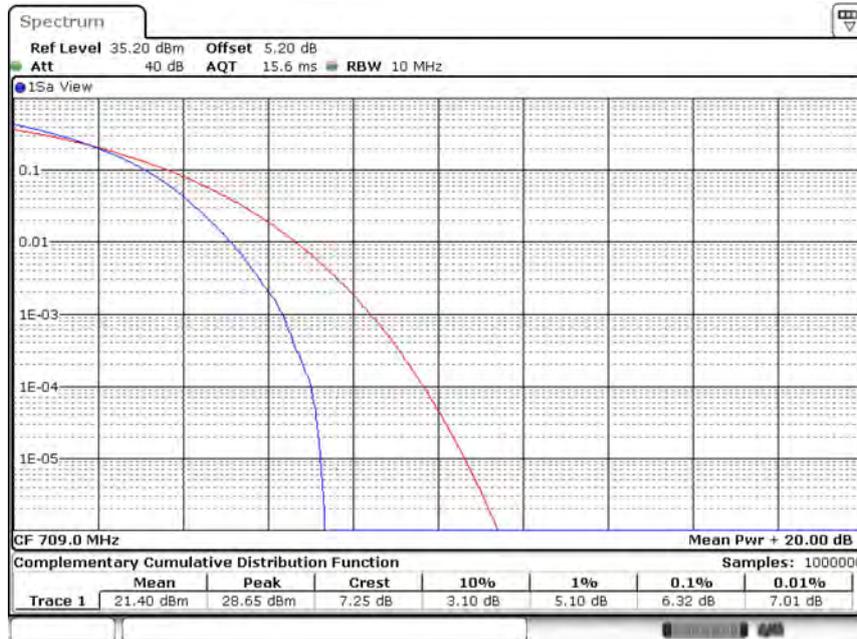
Band17-10MHz-64QAM-23780-50RB#0



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Date: 24 JUN 2020 09:59:34

Band17-10MHz-64QAM-23790-50RB#0



Date: 24 JUN 2020 09:59:45

Band17-10MHz-64QAM-23800-50RB#0



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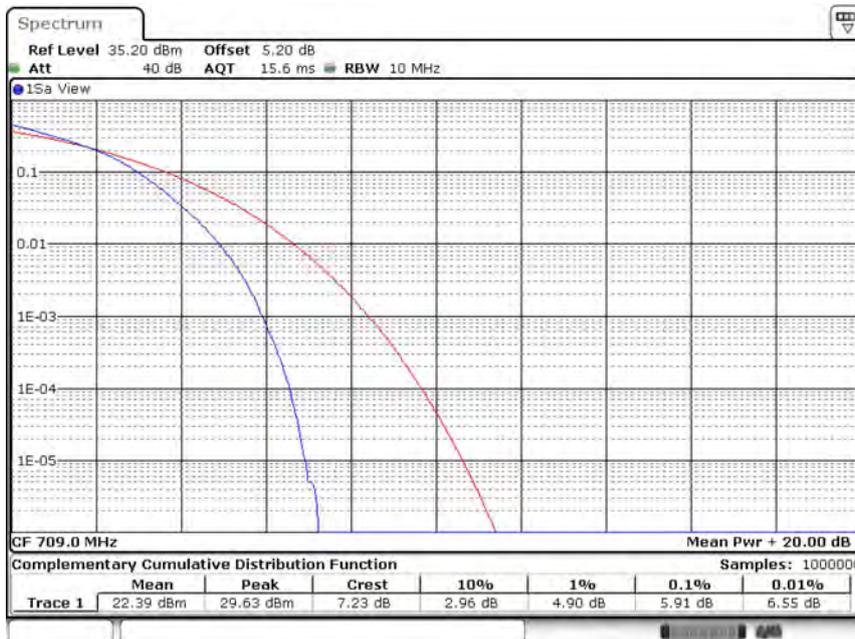
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Date: 24 JUN 2020 09:59:57

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



Date: 23 JUN 2020 13:31:07

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



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



Date: 23 JUN 2020 13:31:57



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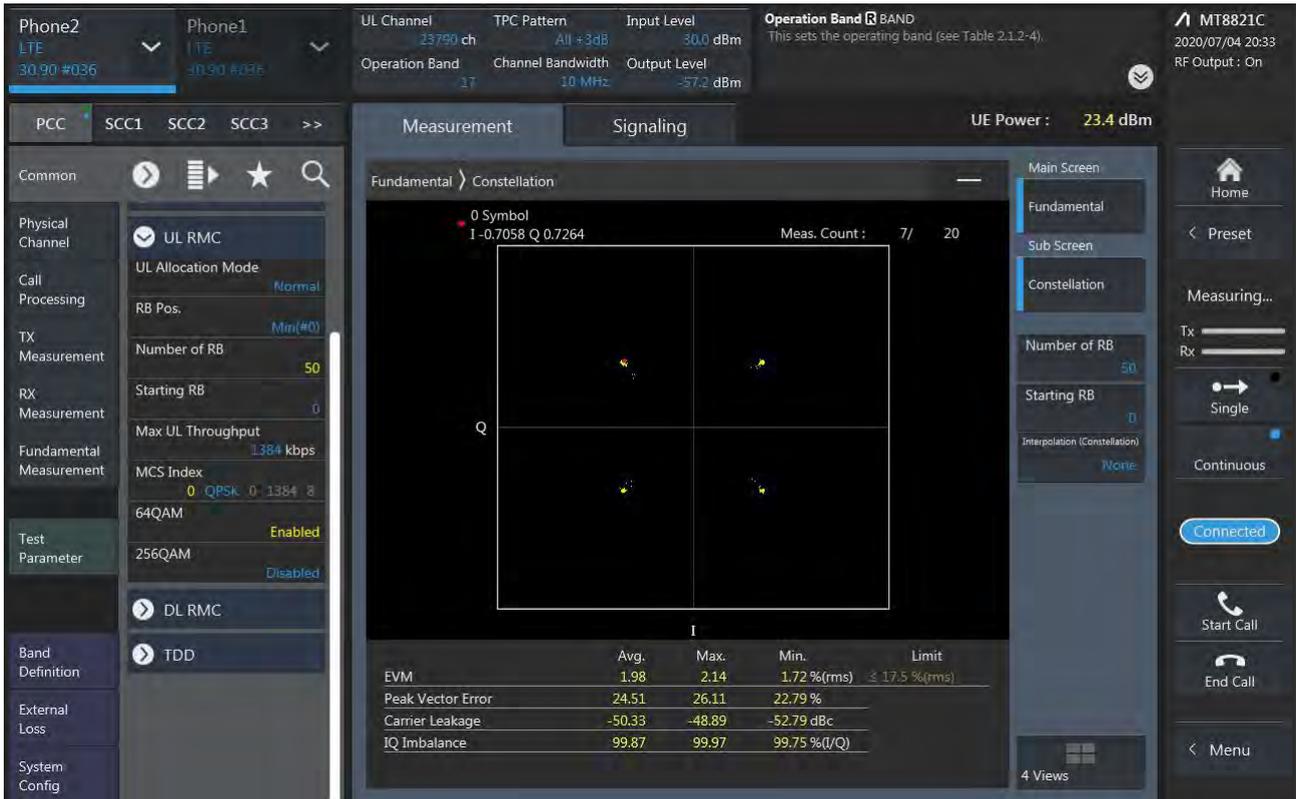
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



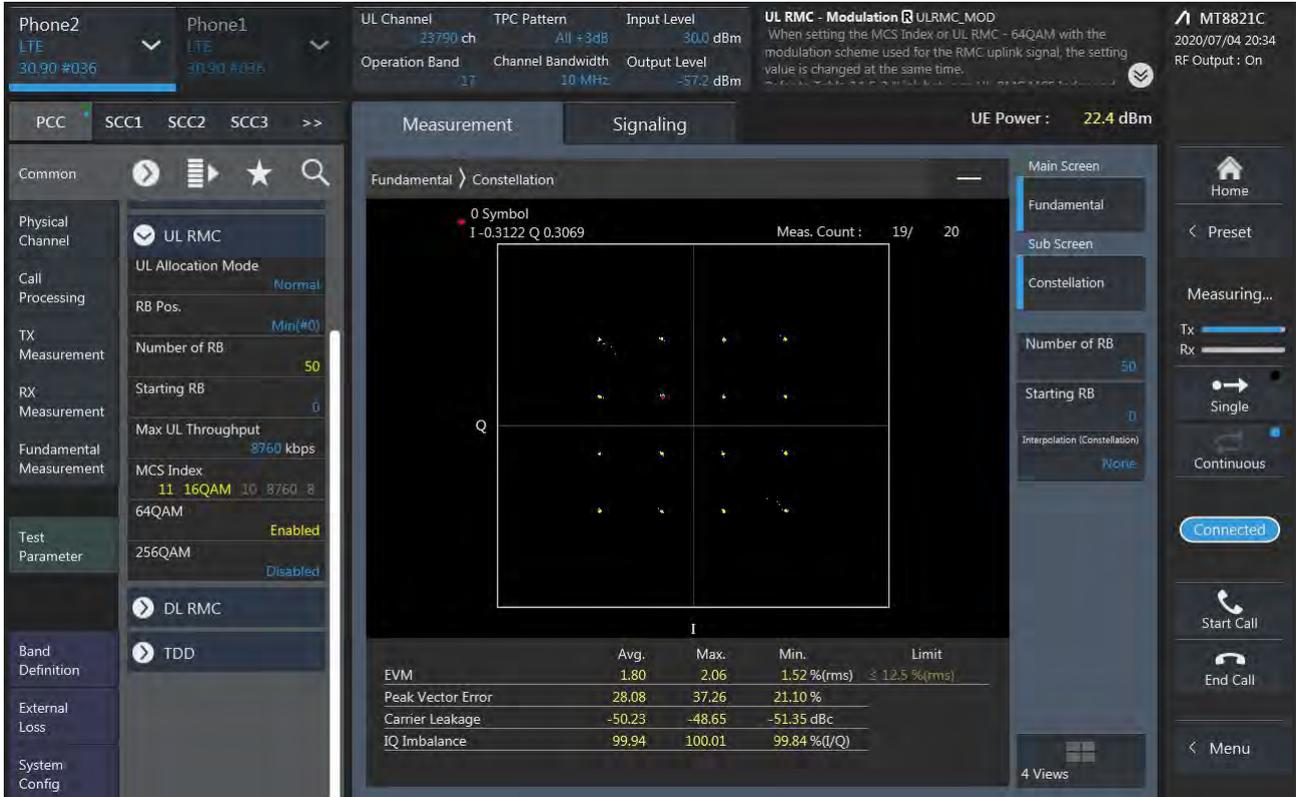
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



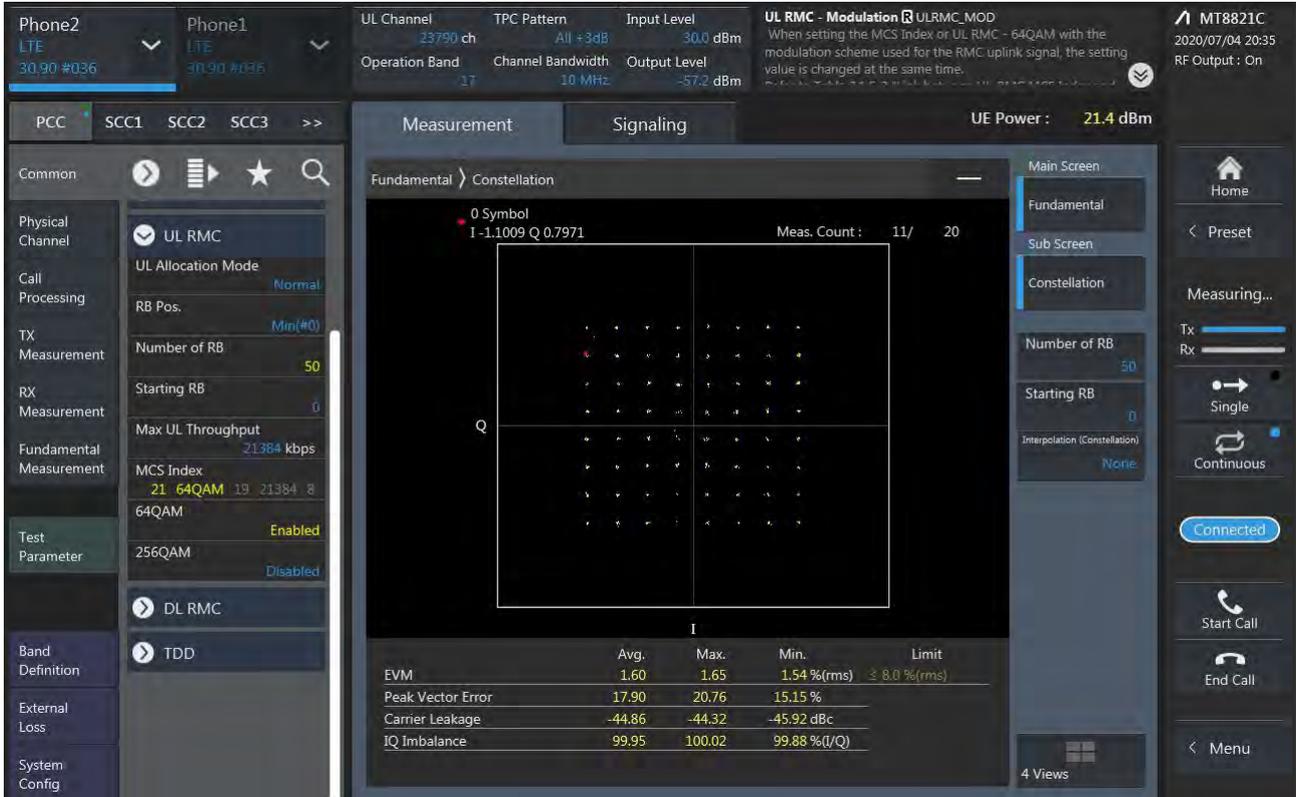
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3.3. Test Mode = LTE /TM3 10MHz

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
Band1 7	5MHz	QPSK	23755	25RB#0	4.476	5.030	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	4.486	5.070	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	4.486	5.070	PASS
Band1 7	5MHz	64QAM	23755	25RB#0	4.476	4.980	PASS
Band1 7	5MHz	64QAM	23790	25RB#0	4.476	5.040	PASS
Band1 7	5MHz	64QAM	23825	25RB#0	4.476	5.140	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	4.496	5.050	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	4.496	5.080	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	4.496	5.090	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	8.951	9.880	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	8.971	9.920	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	8.951	9.920	PASS
Band1 7	10MHz	64QAM	23780	50RB#0	8.931	9.760	PASS
Band1 7	10MHz	64QAM	23790	50RB#0	8.971	9.780	PASS
Band1 7	10MHz	64QAM	23800	50RB#0	8.971	9.880	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	8.951	9.880	PASS



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7							
Band1 7	10MHz	16QAM	23790	50RB#0	8.951	10.140	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	8.951	9.900	PASS

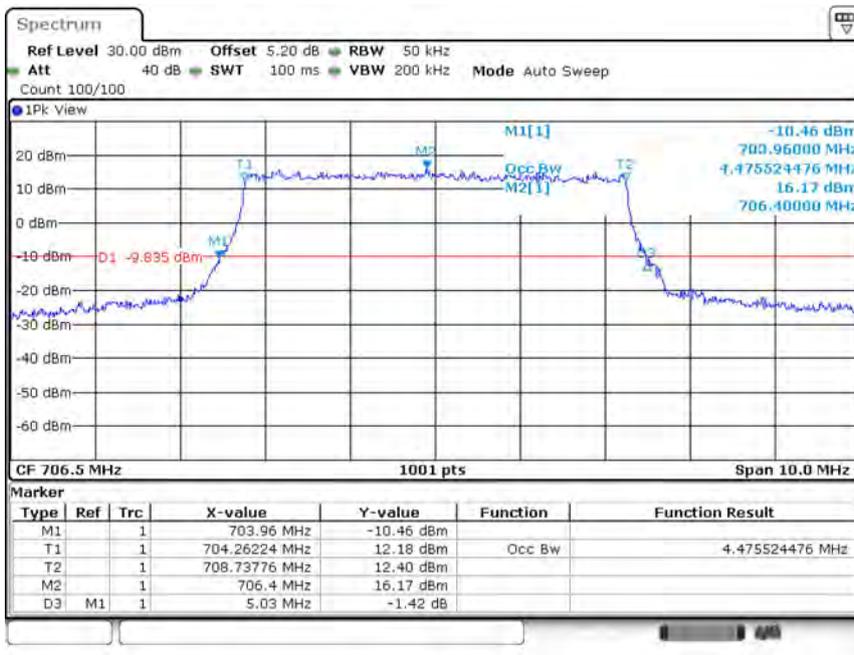


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4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.476



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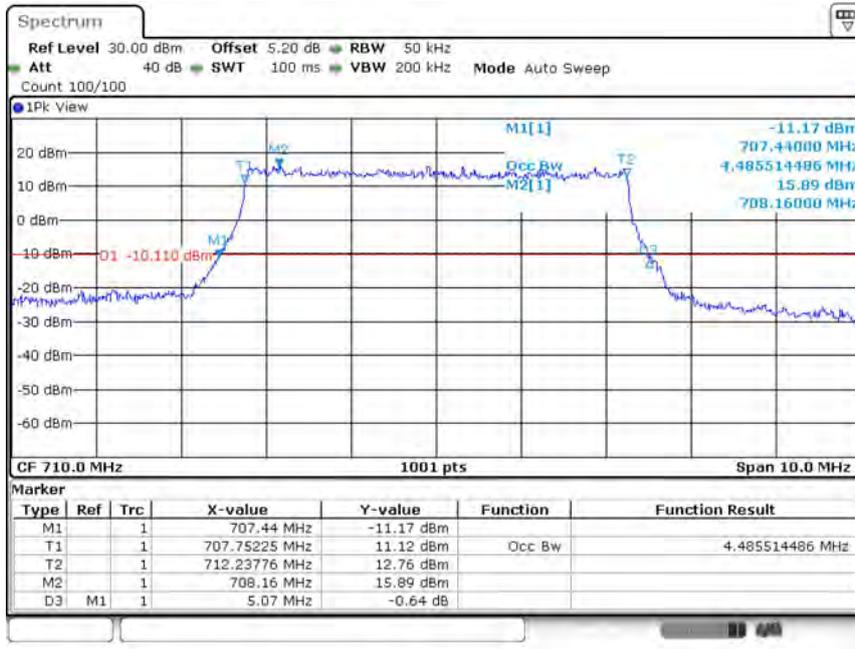
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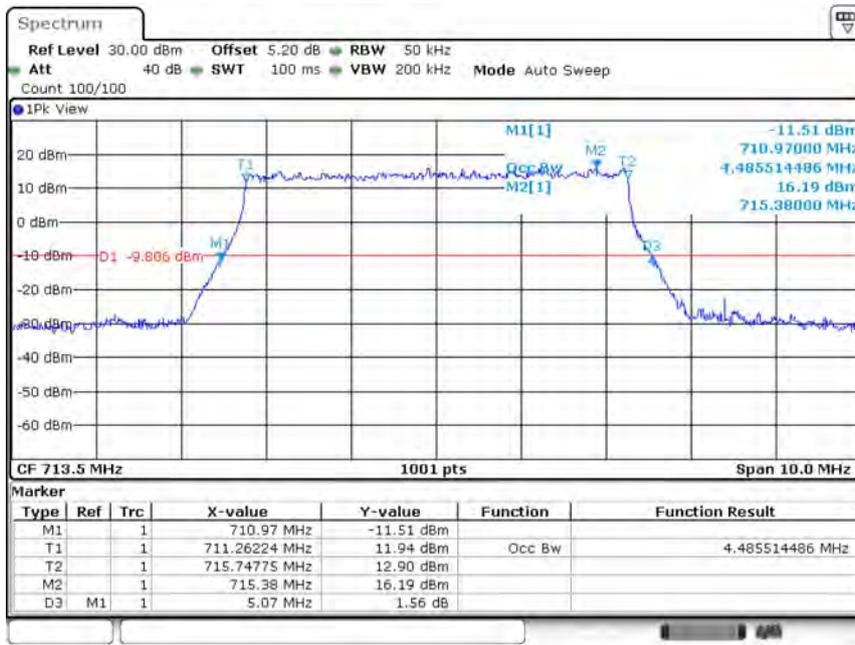


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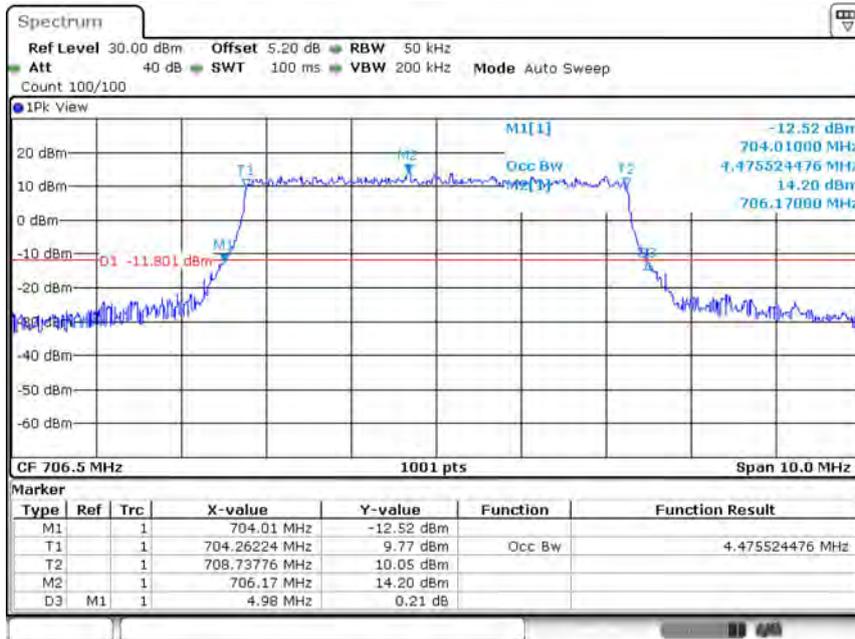
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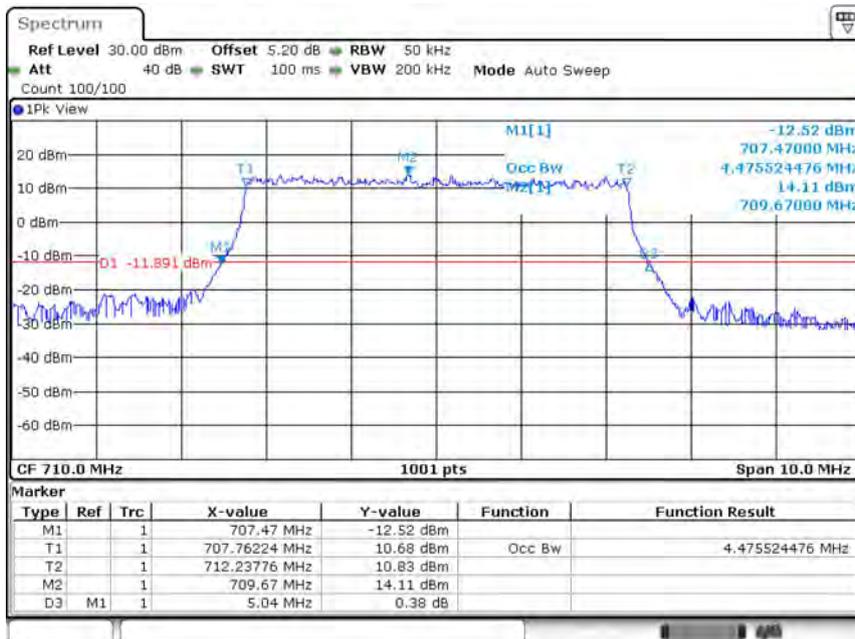
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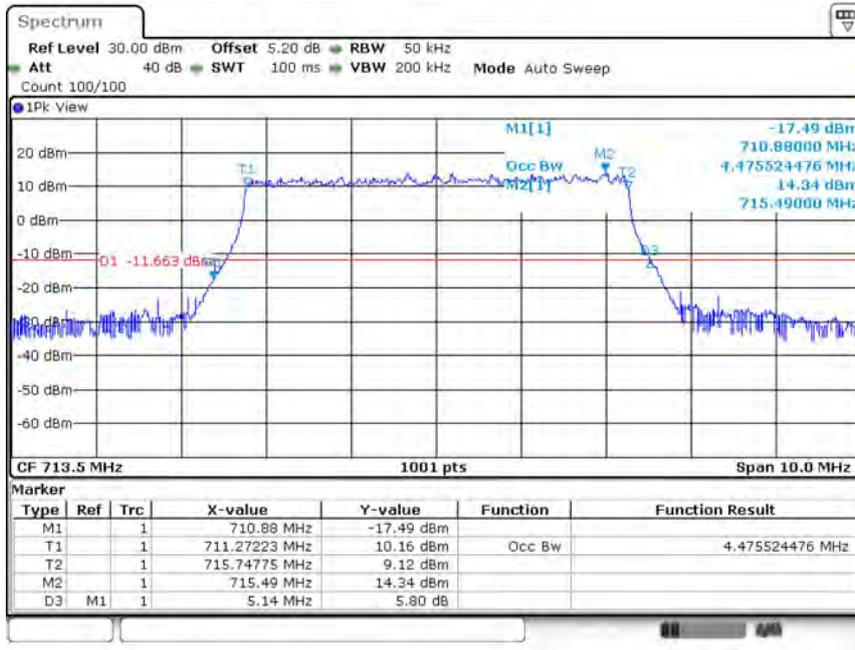


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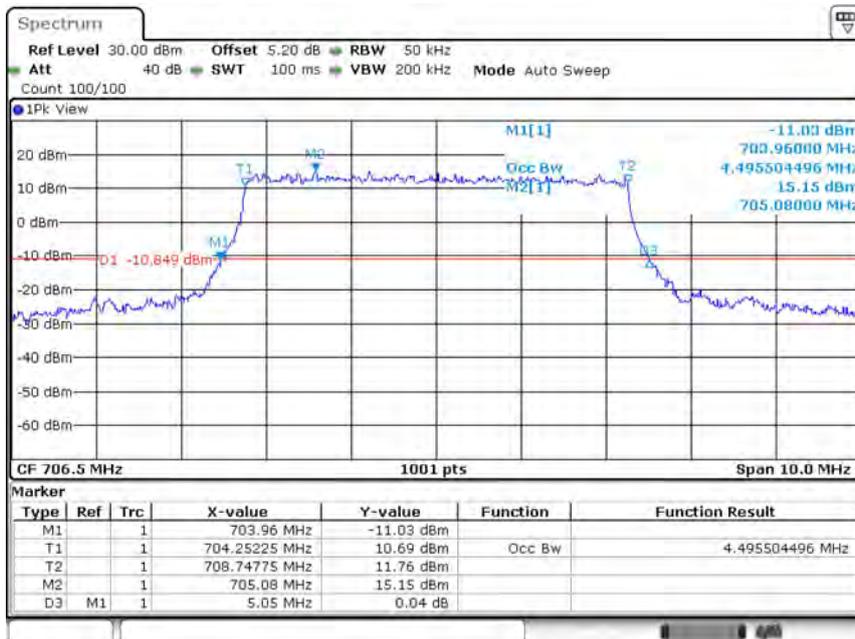


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Date: 24 JUN 2020 09:51:03

Band17-5MHz-16QAM-23755-25RB#0-4.496

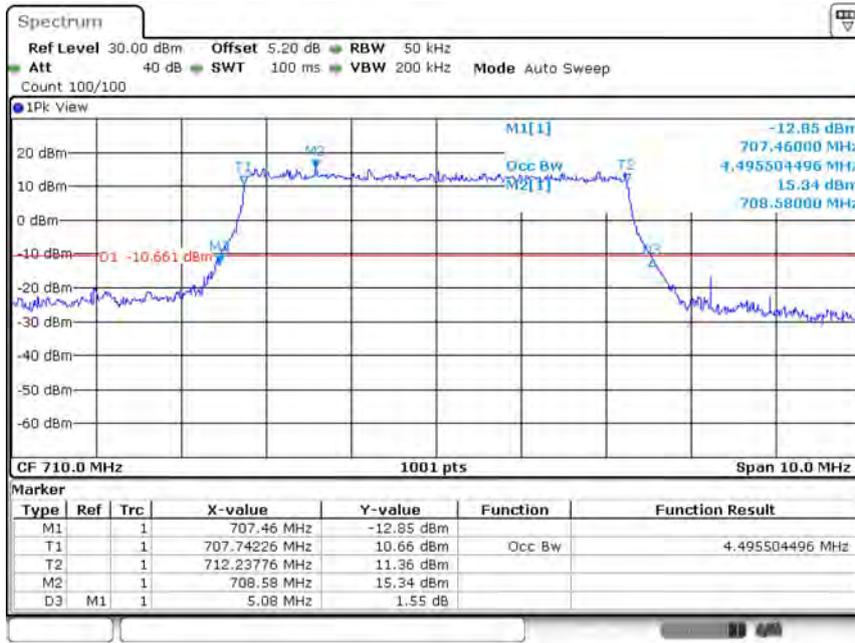


Date: 23 JUN 2020 13:12:17

Band17-5MHz-16QAM-23790-25RB#0-4.496

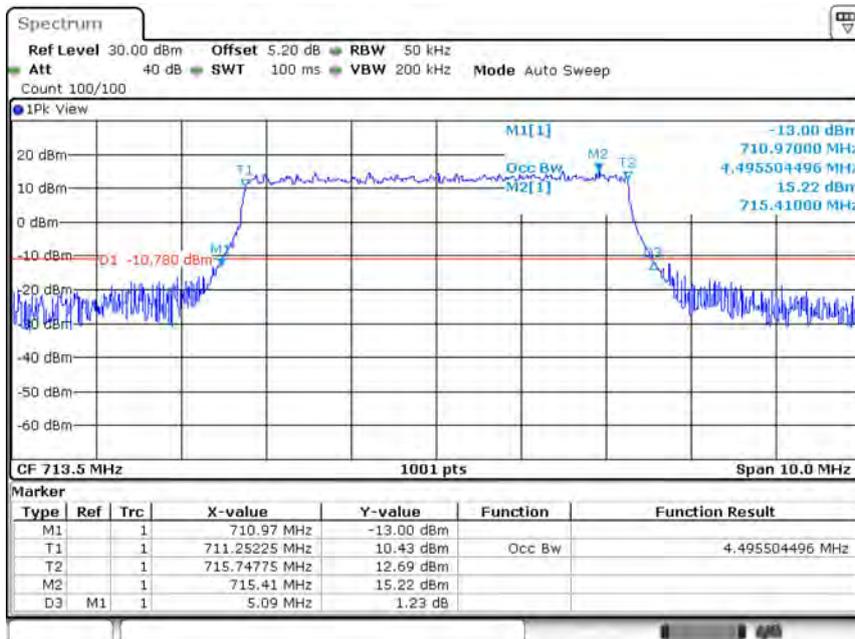


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Date: 23 JUN 2020 13:12:57

Band17-5MHz-16QAM-23825-25RB#0-4.496

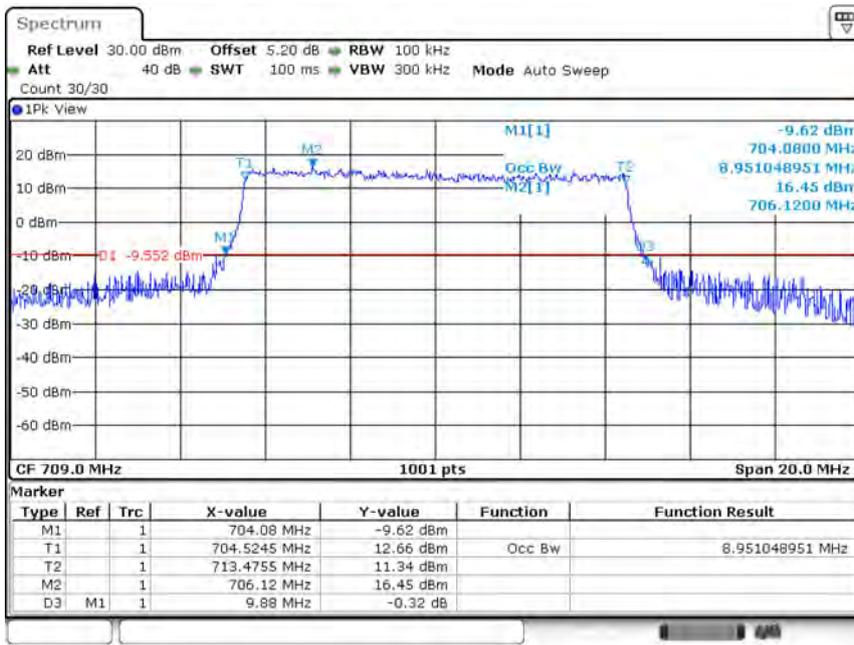


Date: 23 JUN 2020 13:13:36

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

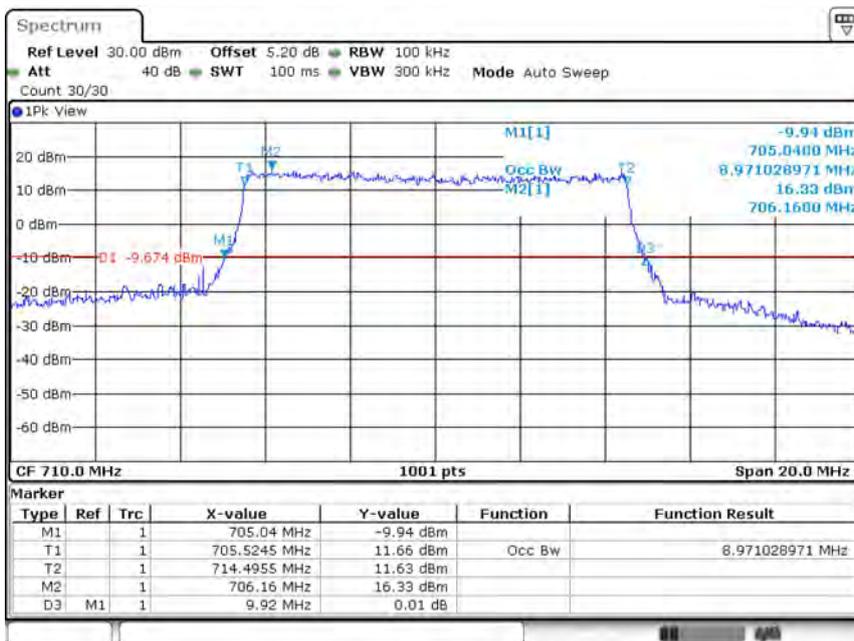


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Date: 23 JUN.2020 13:13:54

Band17-10MHz-QPSK-23790-50RB#0-8.971

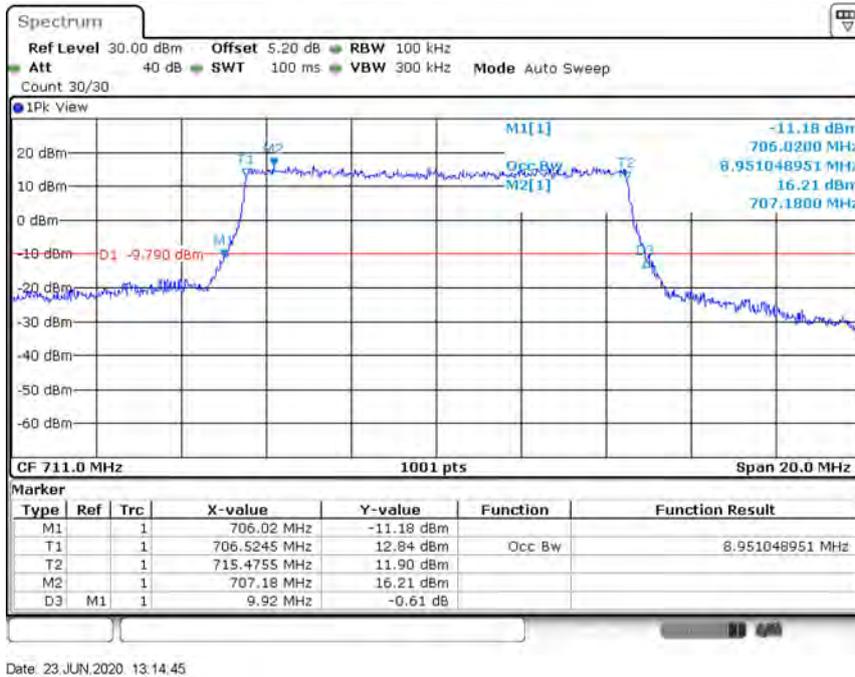


Date: 23 JUN.2020 13:14:20

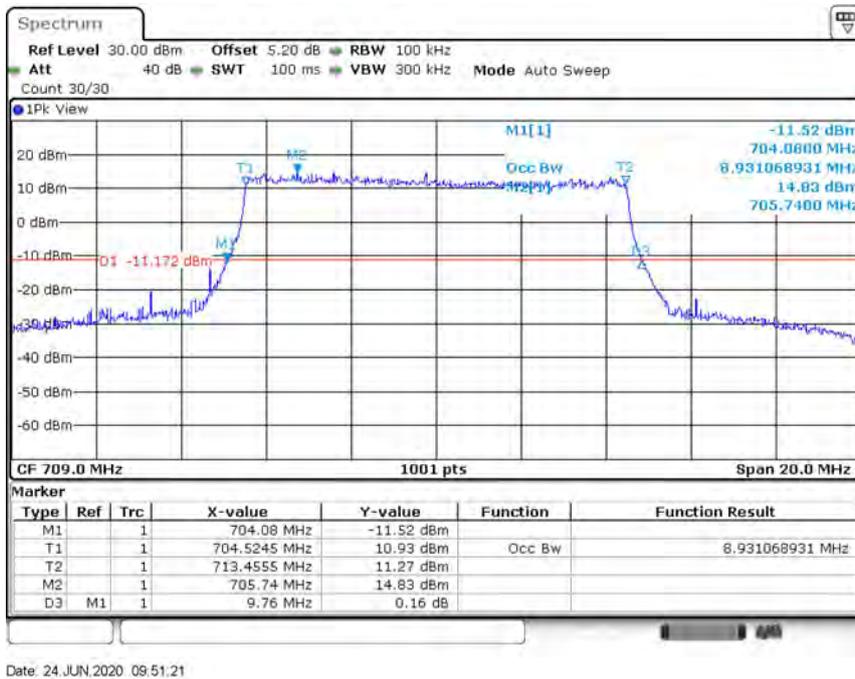
Band17-10MHz-QPSK-23800-50RB#0-8.951



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Band17-10MHz-64QAM-23780-50RB#0-8.931



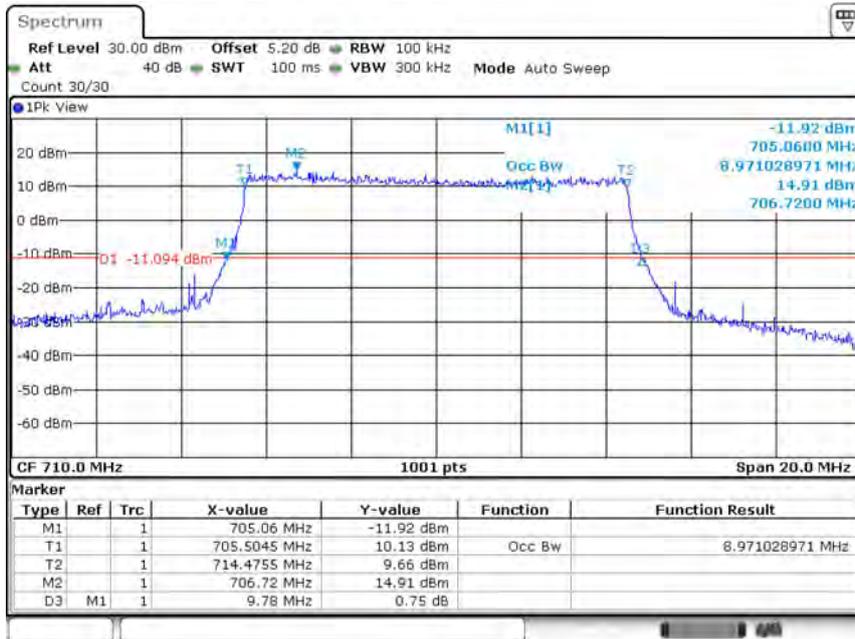
Band17-10MHz-64QAM-23790-50RB#0-8.971



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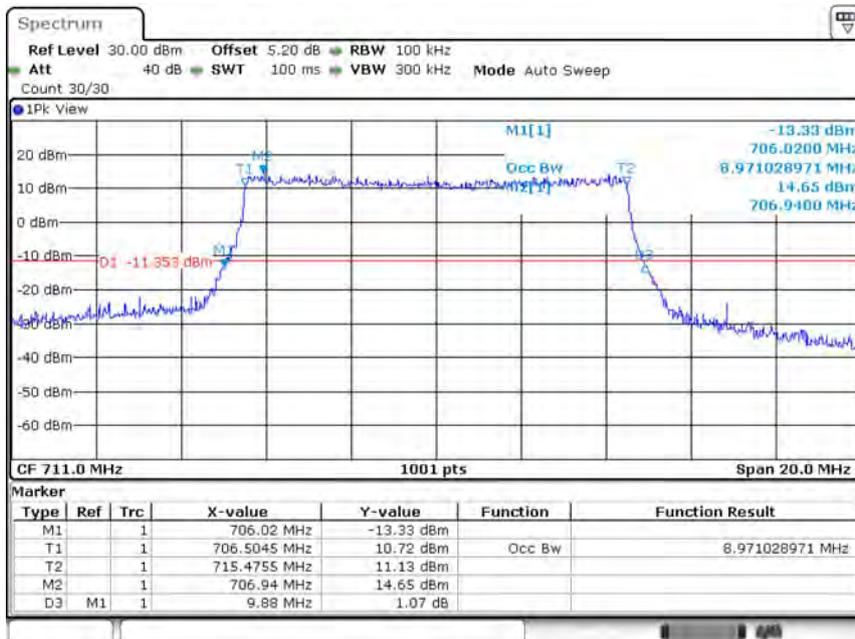
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Date: 24 JUN 2020 09:51:34

Band17-10MHz-64QAM-23800-50RB#0-8.971

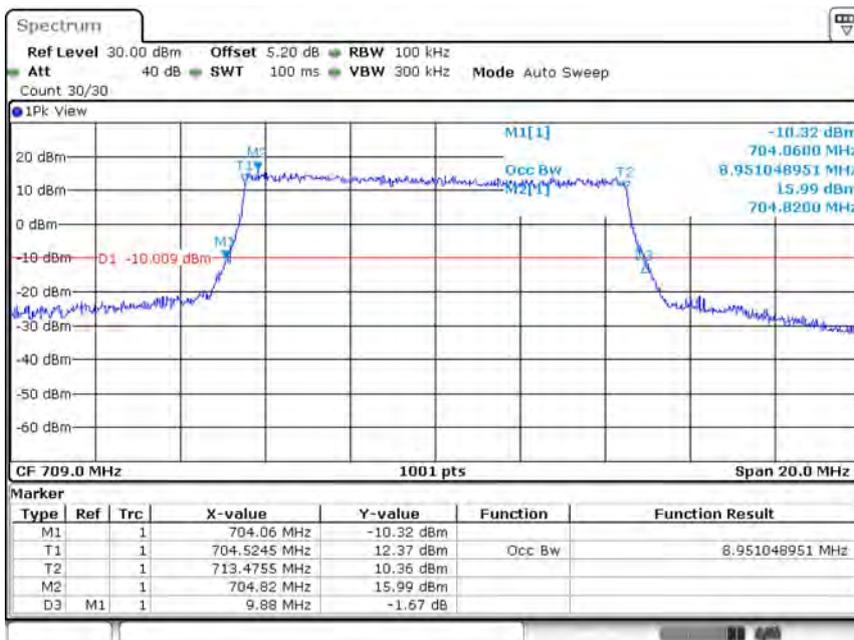


Date: 24 JUN 2020 09:51:47

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

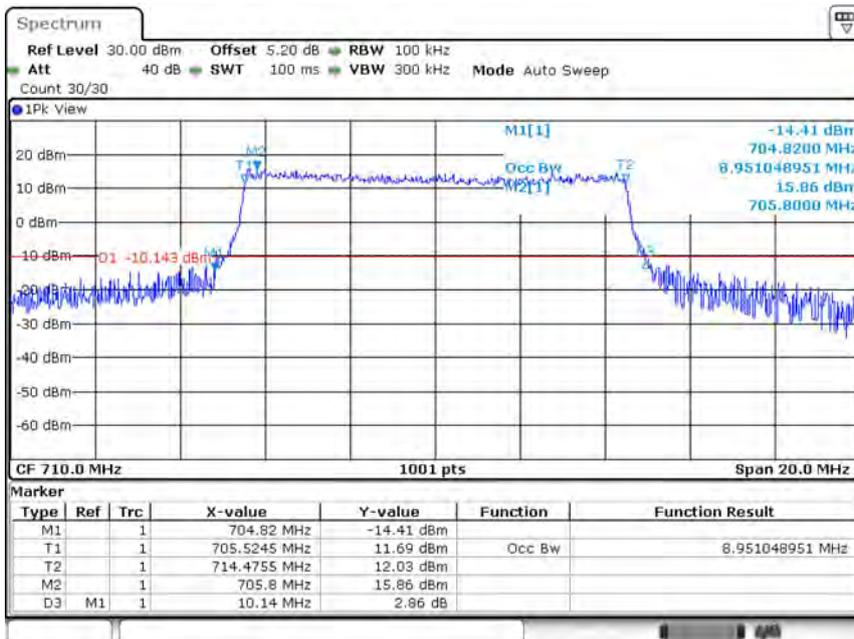


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Date: 23 JUN.2020 13:14:07

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

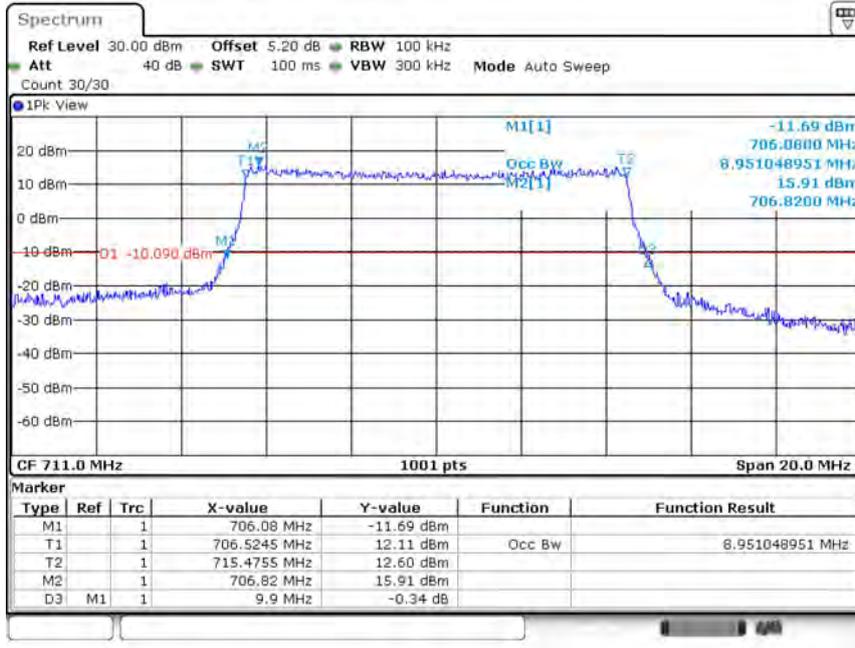


Date: 23 JUN.2020 13:14:32

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



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 Wireless Laboratory



Date: 23 JUN 2020 13:14:58

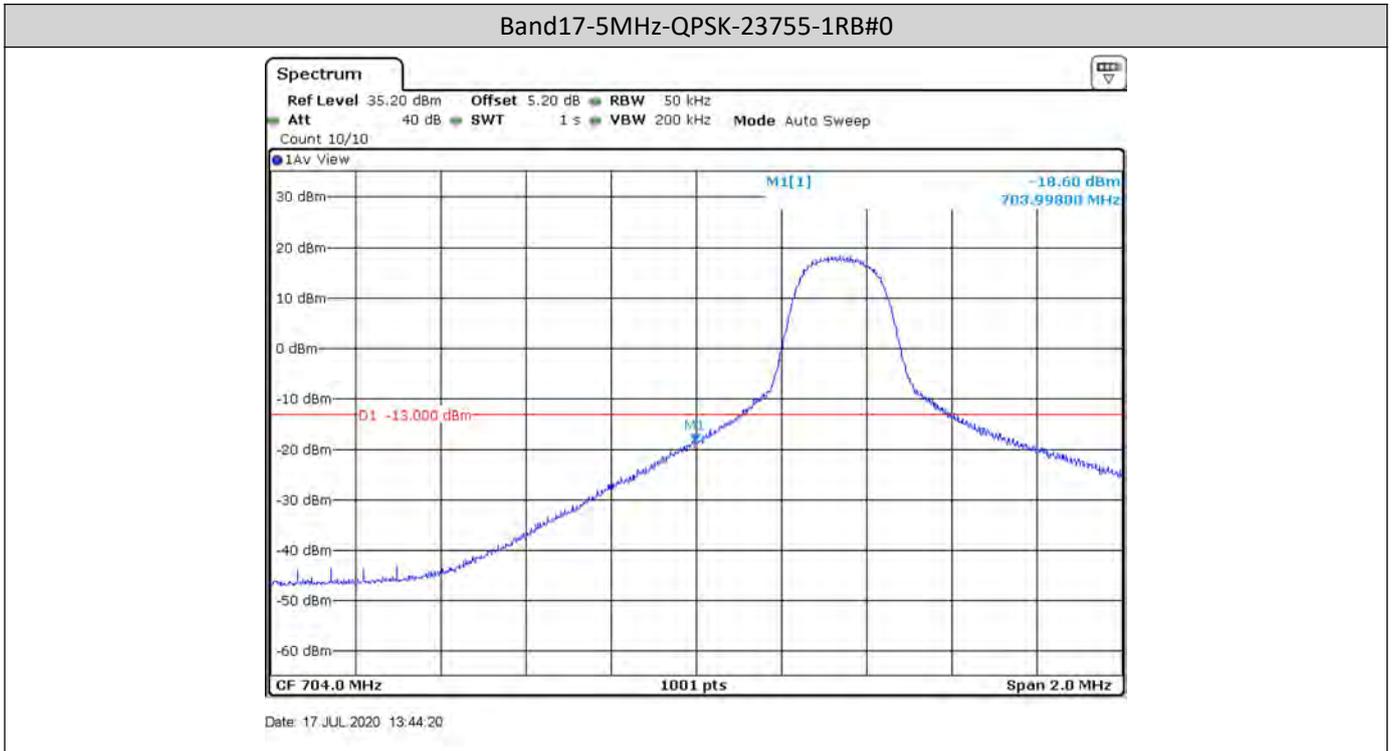


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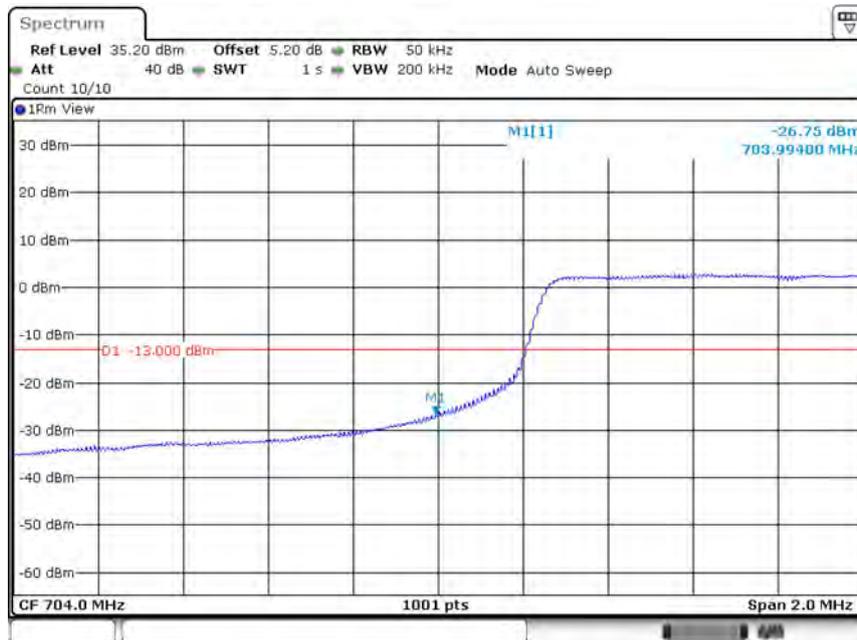
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Band17-5MHz-QPSK-23755-25RB#0



Date: 27 JUN 2020 11:23:08

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



Date: 28 JUN 2020 10:23:37

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



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Date: 27 JUN 2020 11:24:35

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



Date: 24 JUN 2020 09:52:12

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



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Date: 24 JUN 2020 09:52:33

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



Date: 28 JUN 2020 10:24:10

Band17-5MHz-64QAM-23825-25RB#0



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Date: 24 JUN.2020 09:53:19

Band17-5MHz-16QAM-23755-1RB#0



Date: 17 JUL.2020 13:46:17

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



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Date: 27 JUN 2020 11:23:29

Band17-5MHz-16QAM-23825-1RB#24



Date: 28 JUN 2020 10:22:54

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



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Date: 27 JUN 2020 11:24:55

Band17-10MHz-QPSK-23780-1RB#0



Date: 27 JUN 2020 11:25:21

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



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Date: 27 JUN.2020 11:26:02

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



Date: 27 JUN.2020 11:26:48

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



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Date: 27 JUN 2020 11:27:30

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



Date: 24 JUN 2020 09:53:45

Band17-10MHz-64QAM-23780-50RB#0



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Date: 24 JUN.2020 09:54:05

Band17-10MHz-64QAM-23800-1RB#49



Date: 24 JUN.2020 09:54:31

Band17-10MHz-64QAM-23800-50RB#0

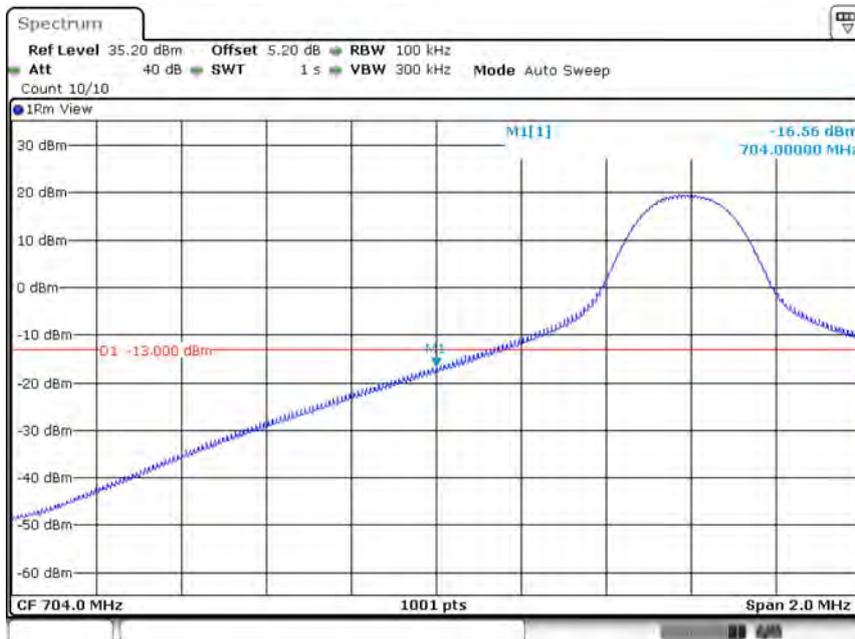


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Date: 24 JUN 2020 09:54:51

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



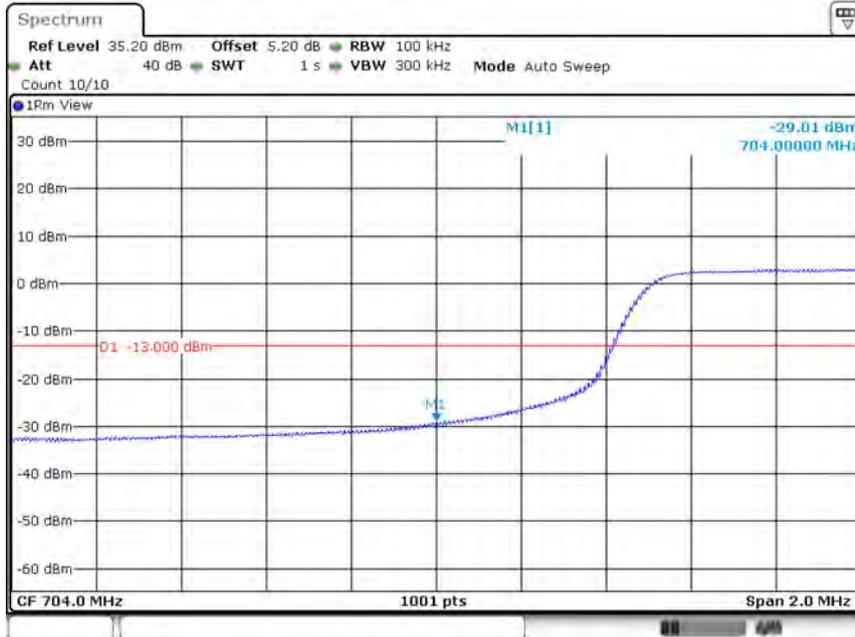
Date: 27 JUN 2020 11:25:41

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



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Date: 27 JUN 2020 11:26:23

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



Date: 27 JUN 2020 11:27:09

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



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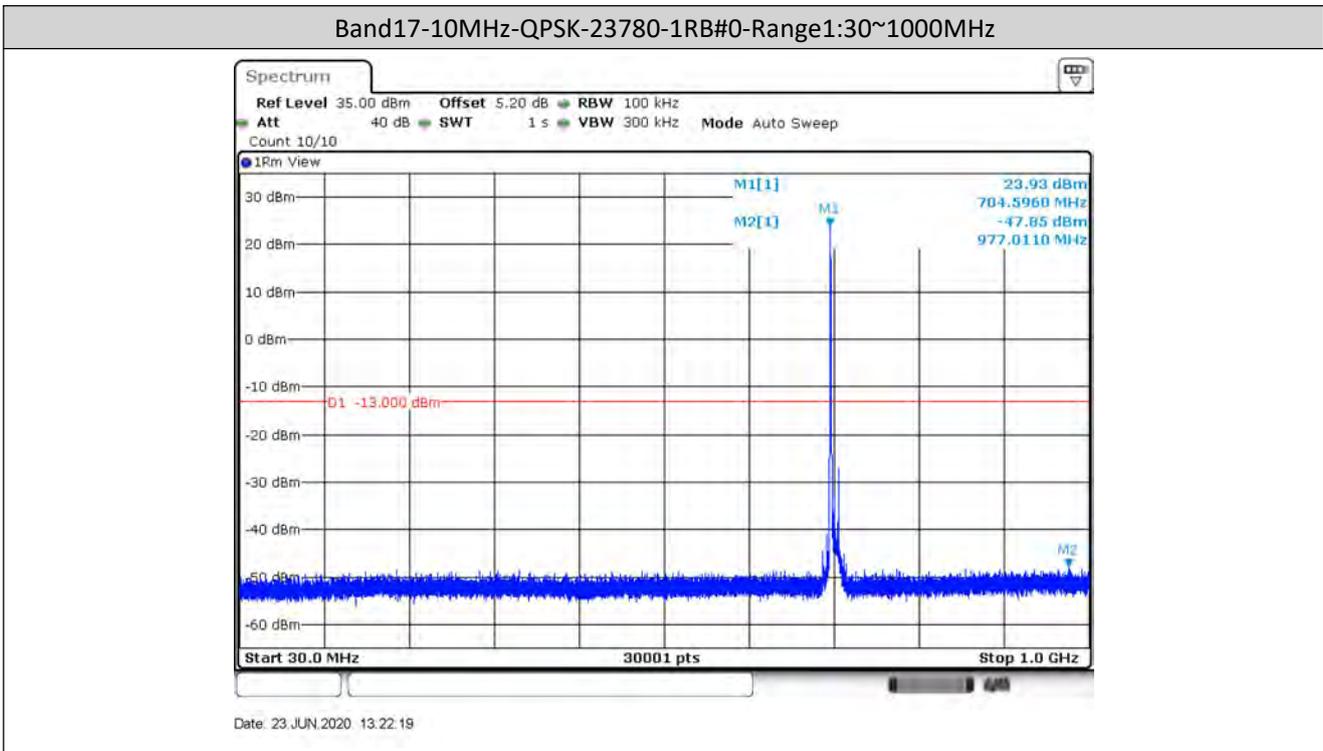
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6. Spurious Emission at Antenna Terminal

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 $< RBW/2$ 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.

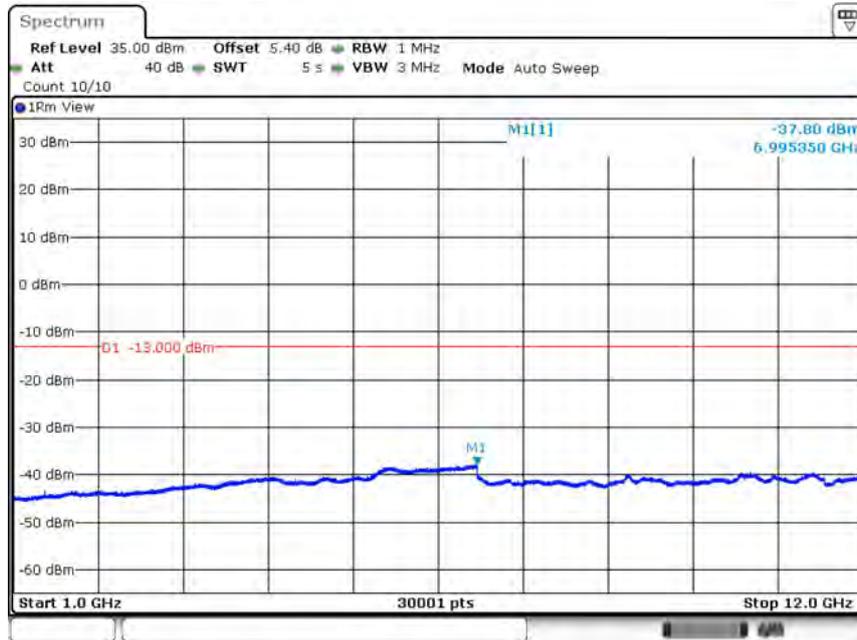
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



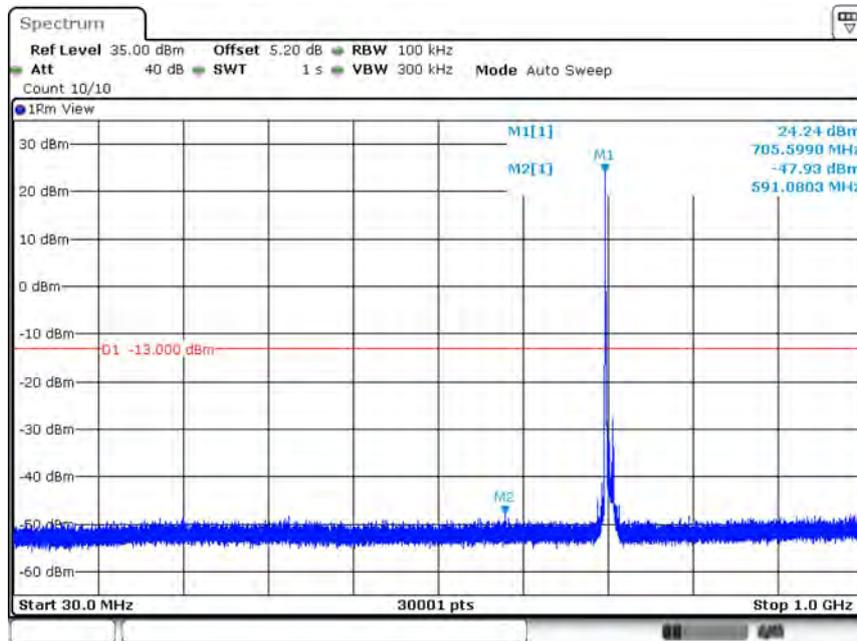


Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~12000MHz



Date: 23 JUN 2020 13:23:26

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

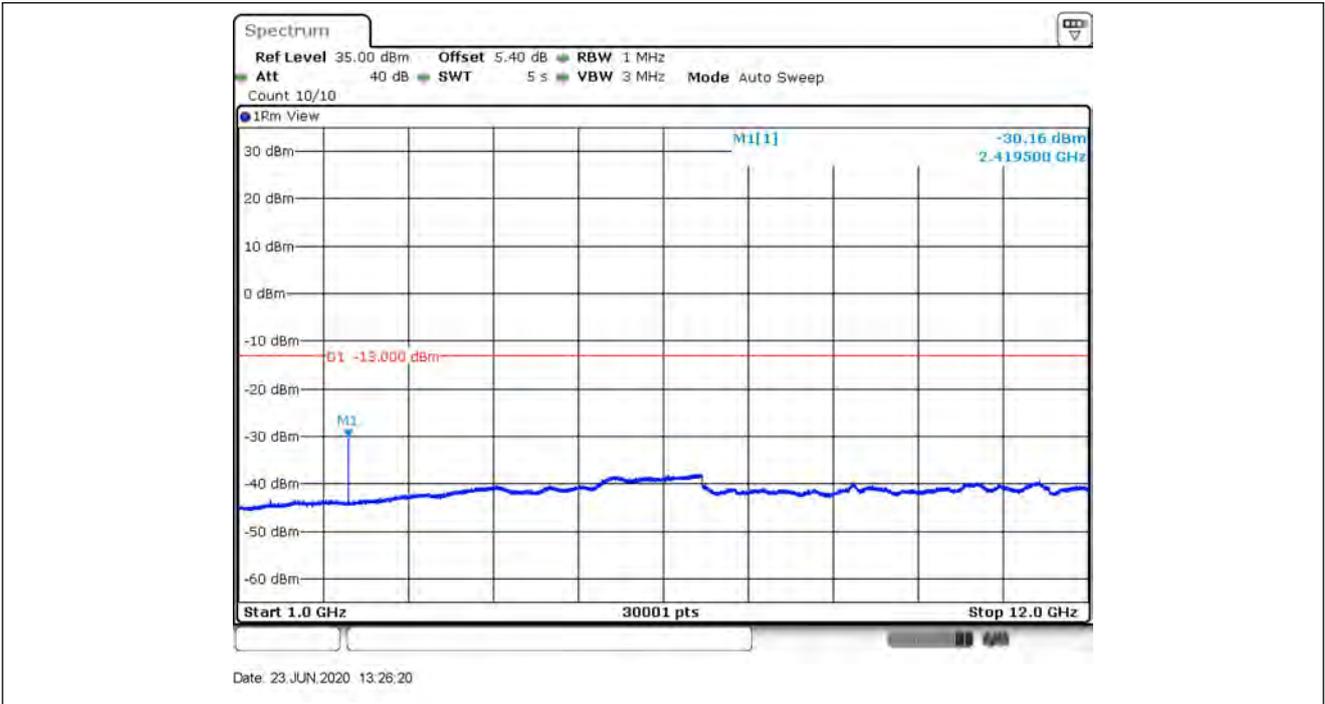


Date: 23 JUN 2020 13:25:12

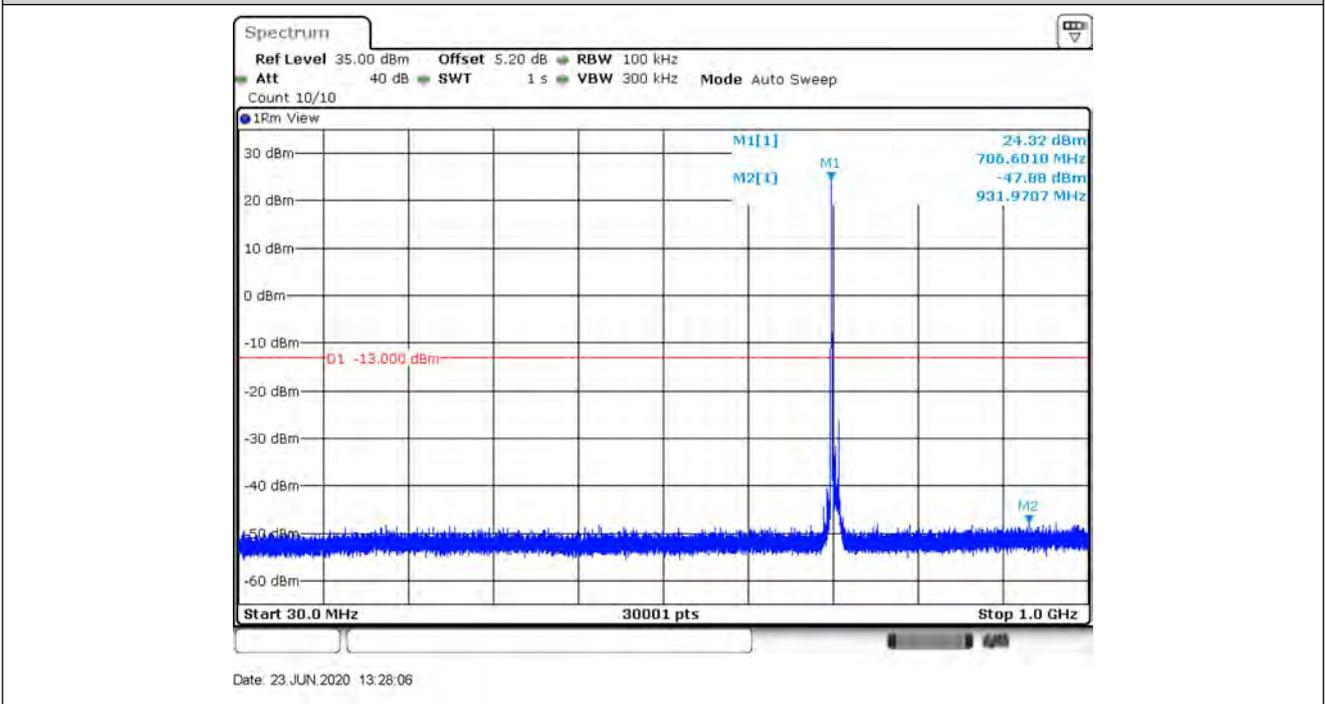
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~12000MHz



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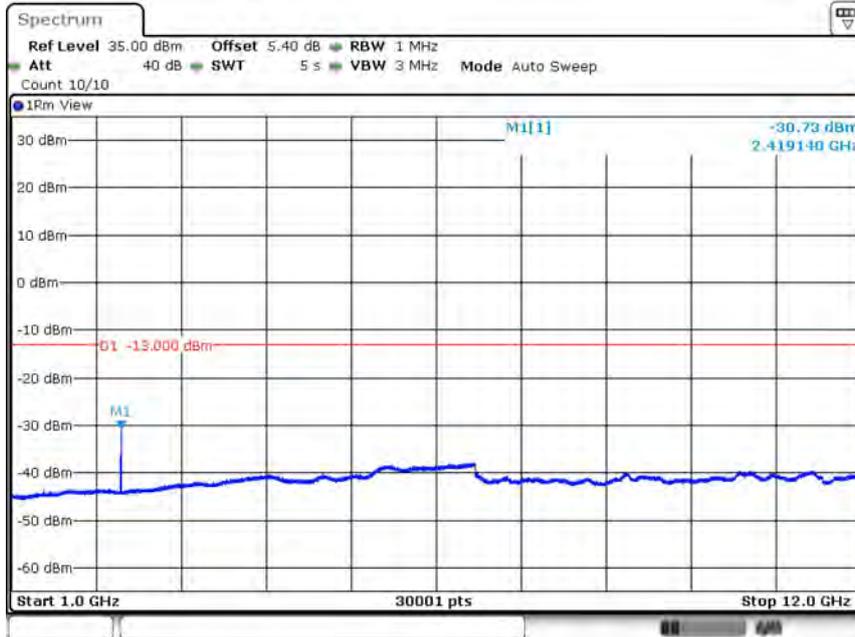
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~100MHz



Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~12000MHz

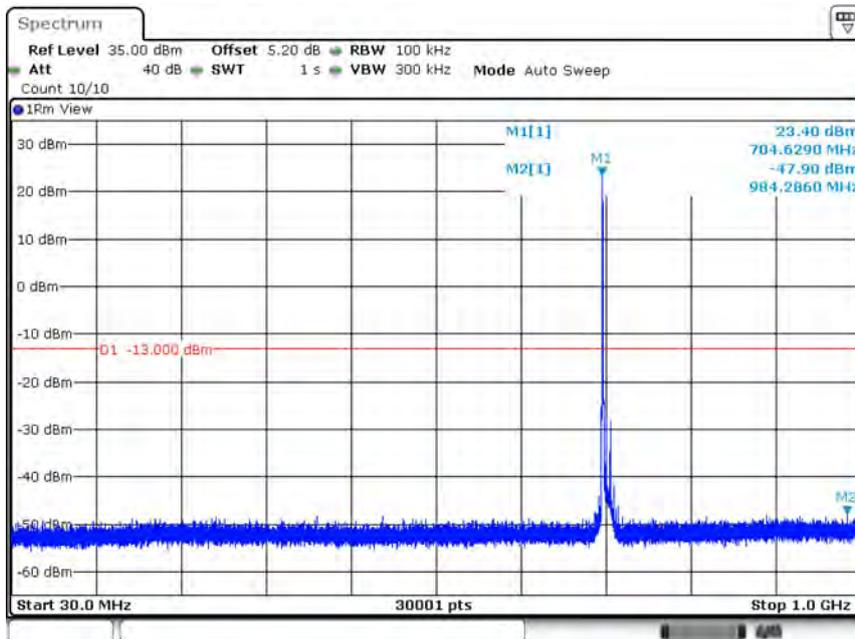


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Date: 23 JUN 2020 13:29:13

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



Date: 24 JUN 2020 09:55:16

Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~12000MHz

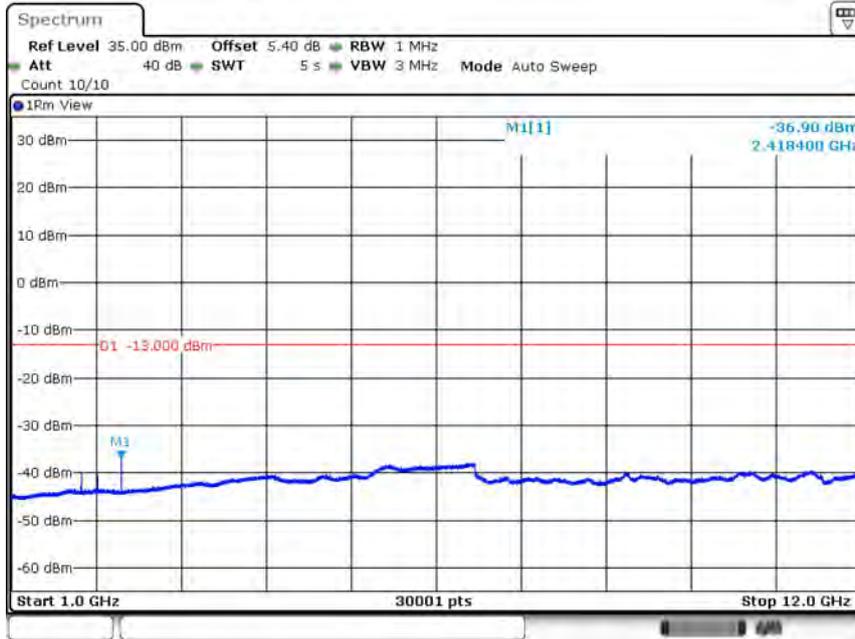


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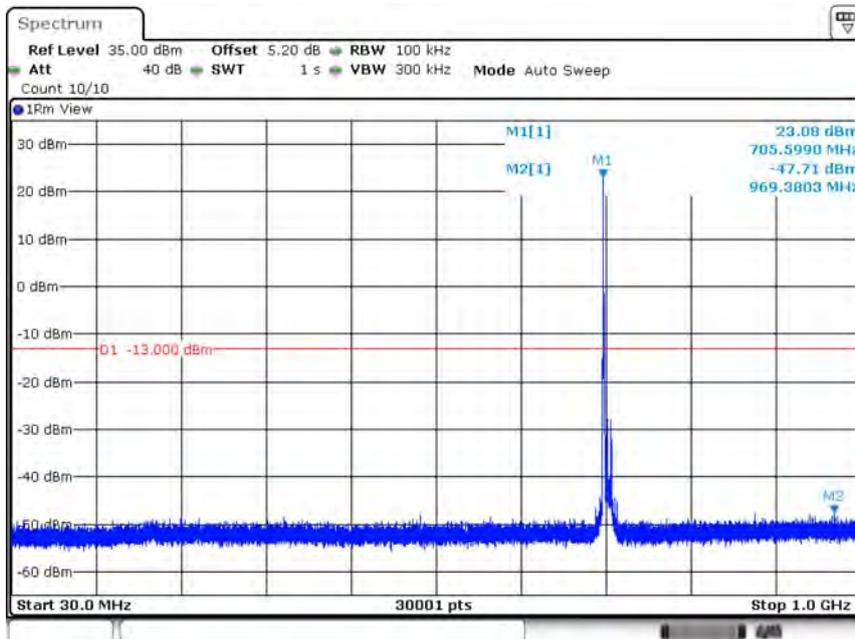
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Date: 24 JUN 2020 09:56:23

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

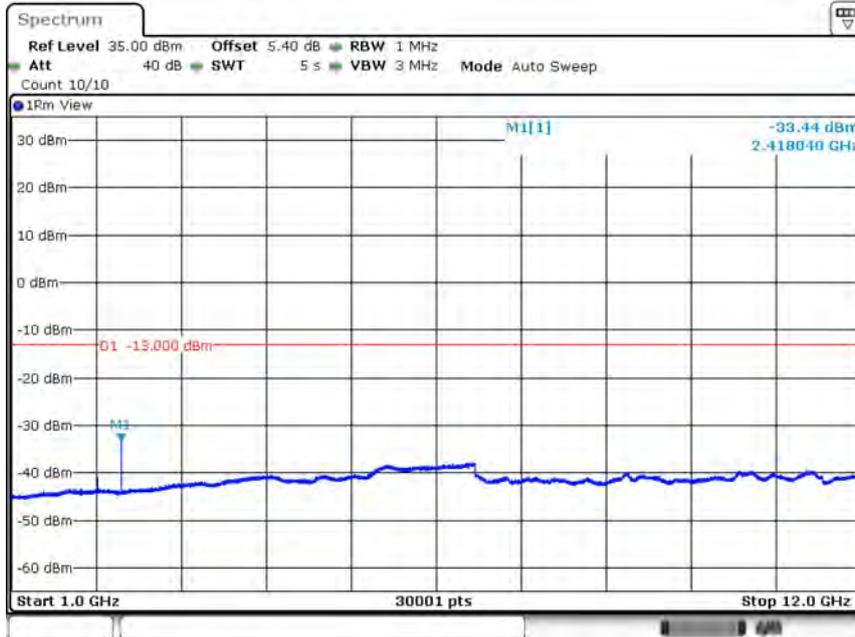


Date: 24 JUN 2020 09:56:43

Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz

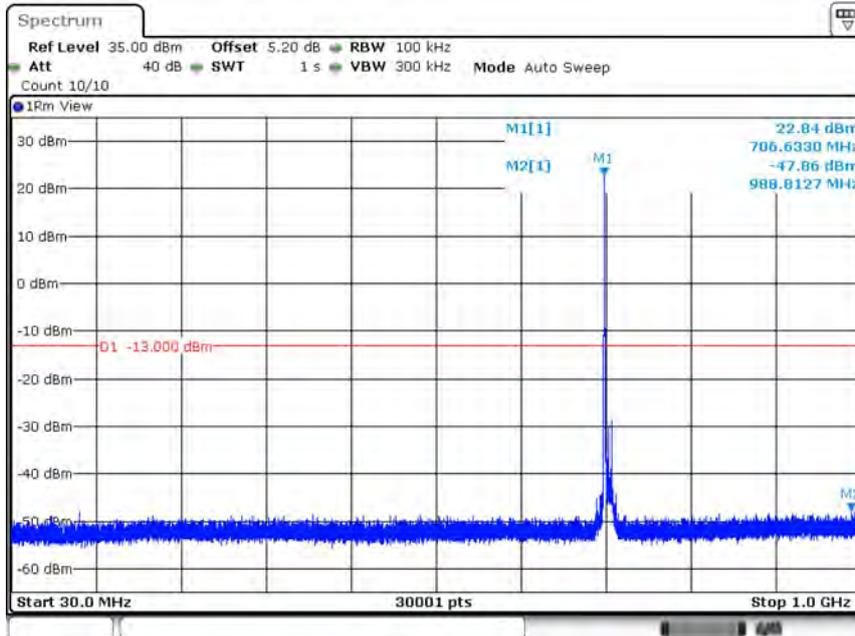


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Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



Date: 24 JUN 2020 09:58:11

Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~12000MHz

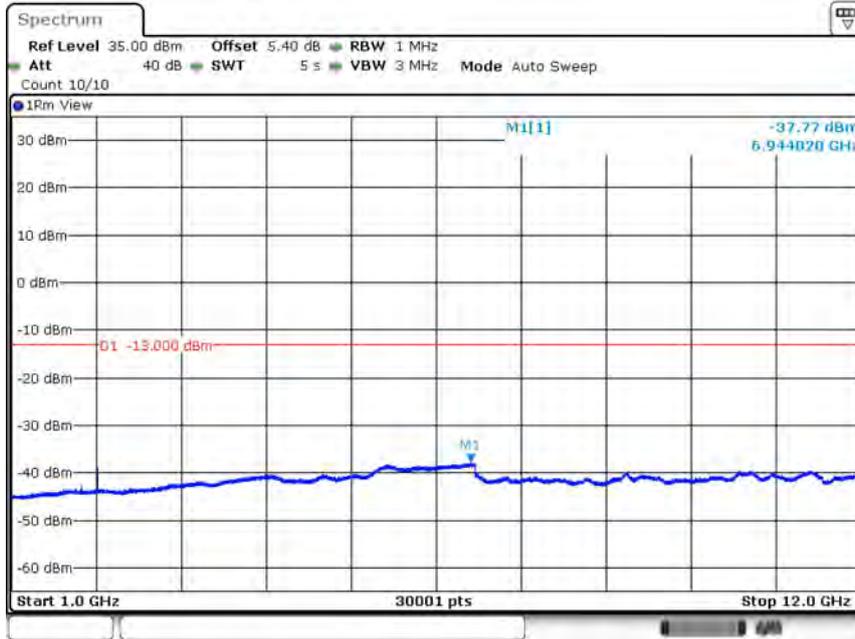


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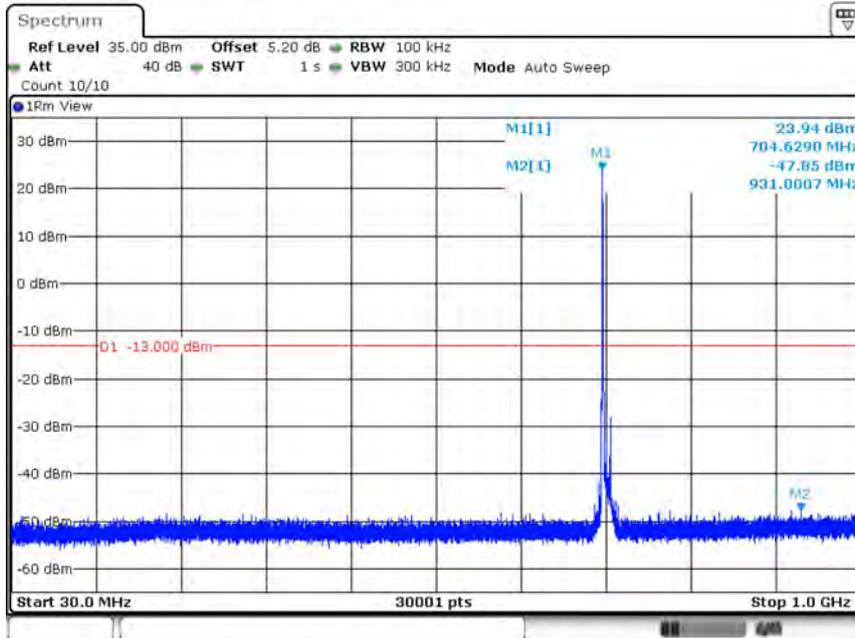
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Date: 24 JUN 2020 09:59:18

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

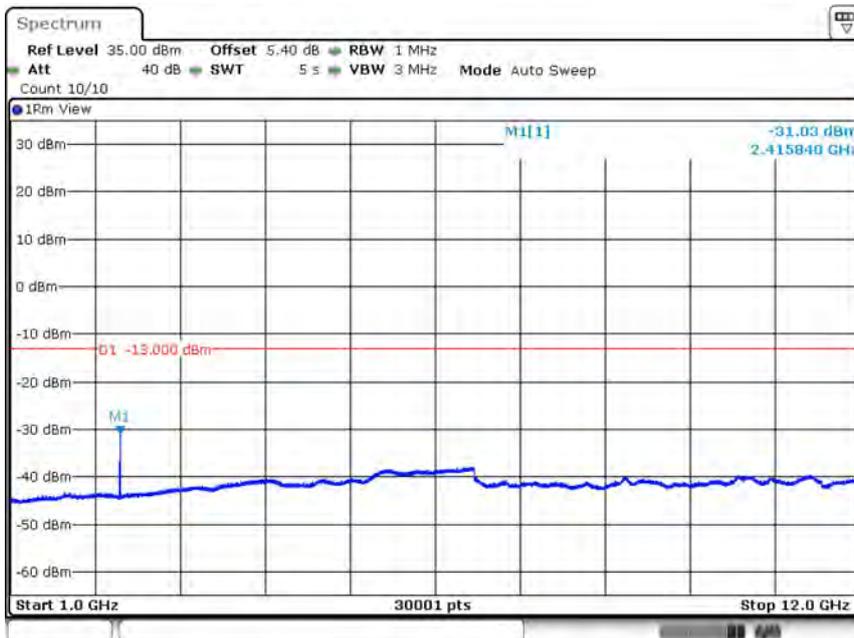


Date: 23 JUN 2020 13:23:45

Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~12000MHz

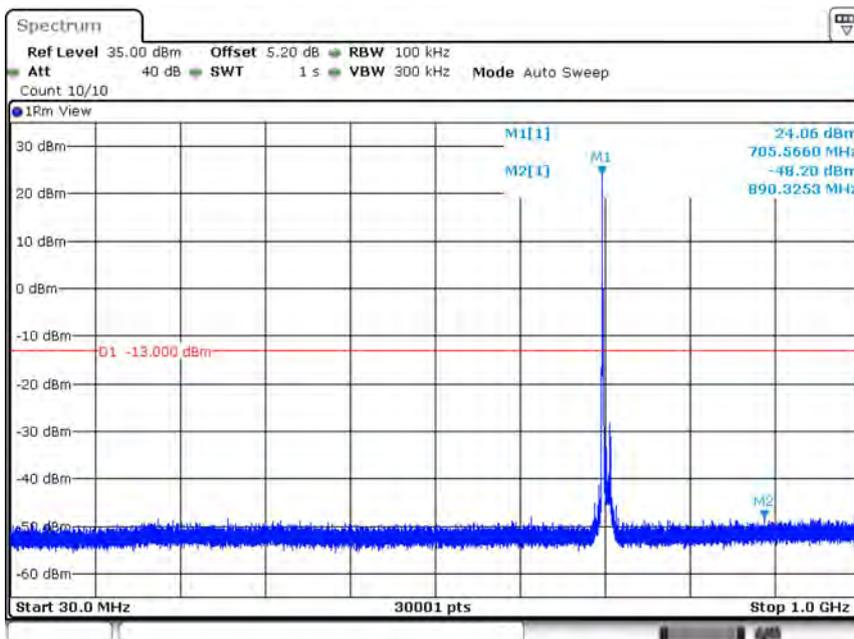


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Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz

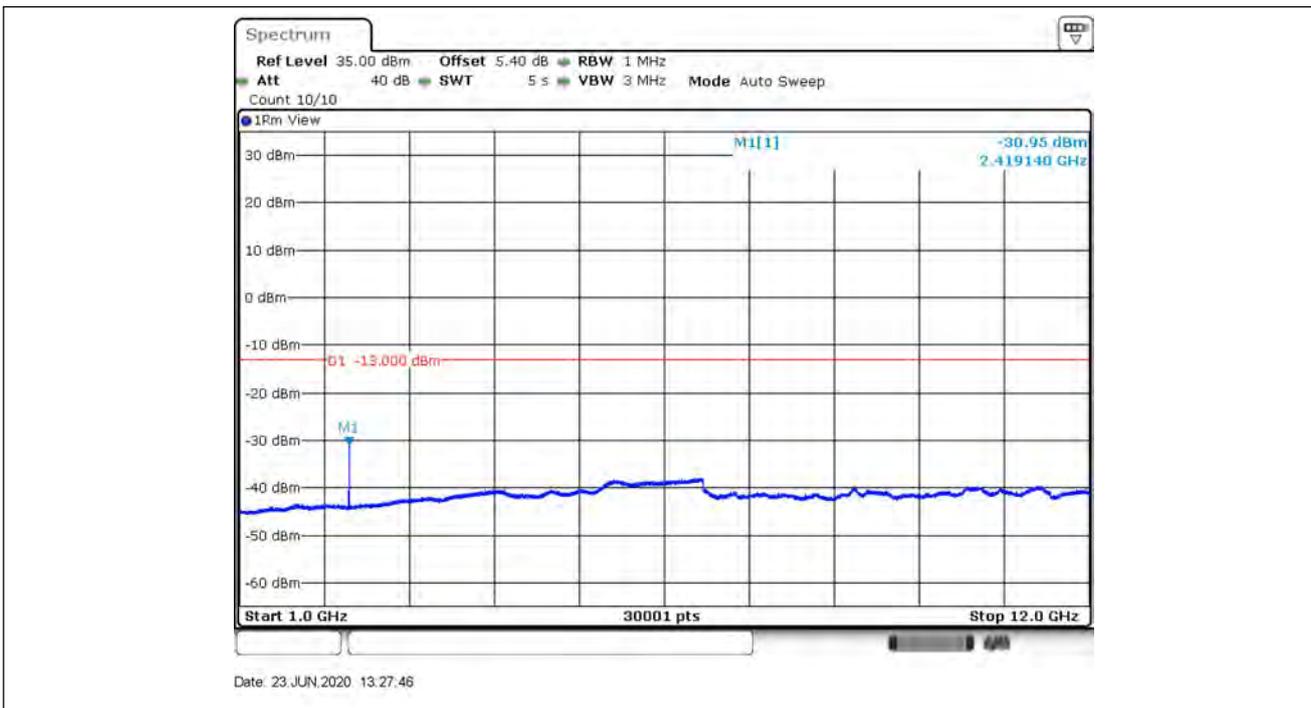


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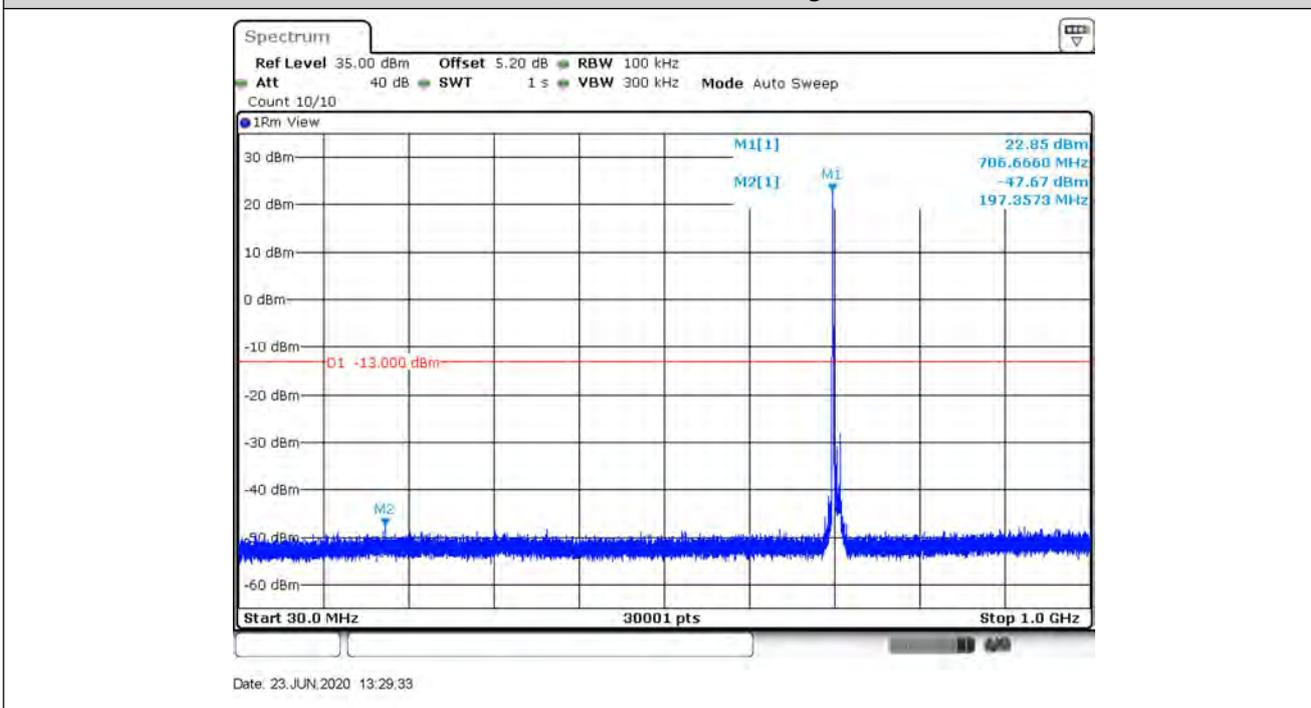
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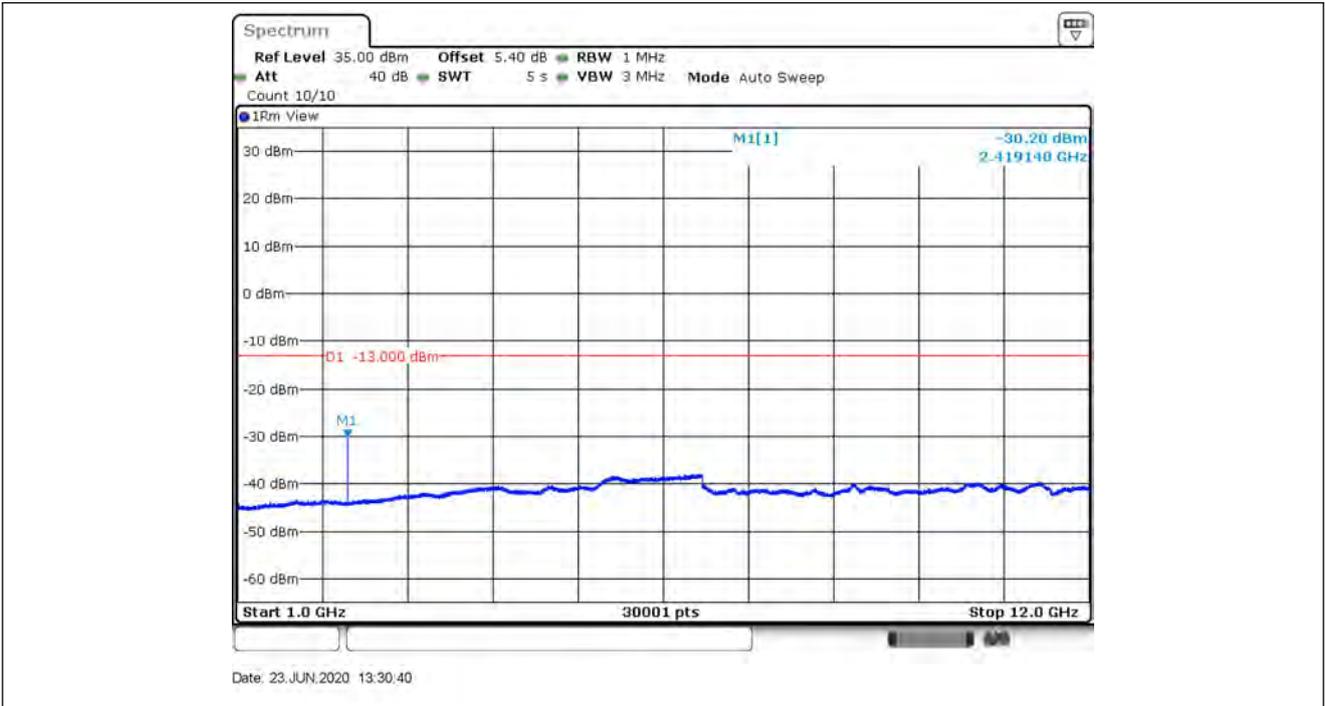
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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_Band=17 BW=10MHz_TM1

7.1.1. Test Channel = 23780

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.4238	-70.90	-64.12	-13.00	51.12	174	352	Horizontal
2	392.4101	-70.56	-67.33	-13.00	54.33	185	192	Horizontal
3	1408.8818	-51.38	-49.12	-13.00	36.12	196	318	Horizontal
4	2113.8228	-59.56	-51.68	-13.00	38.68	231	154	Horizontal
5	9331.4533	-58.46	-52.82	-13.00	39.82	262	352	Horizontal
6	16387.7355	-57.90	-43.67	-13.00	30.67	151	138	Horizontal



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7.2. Test Band = LTE_Band=17 BW=10MHz _TM1

7.2.1. Test Channel = 23780

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.1260	-71.64	-65.24	-13.00	52.24	174	325	Vertical
2	580.7935	-71.84	-65.15	-13.00	52.15	185	325	Vertical
3	1408.8818	-57.61	-54.89	-13.00	41.89	196	259	Vertical
4	2113.8228	-63.70	-55.80	-13.00	42.80	213	161	Vertical
5	14447.2579	-59.62	-47.54	-13.00	34.54	258	57	Vertical
6	17998.8000	-57.81	-39.96	-13.00	26.96	291	192	Vertical



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7.3. Test Band = LTE_Band=17 BW=10MHz_TM1

7.3.1. Test Channel = 23790

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.1741	-70.95	-64.08	-13.00	51.08	258	110	Horizontal
2	376.5983	-70.94	-67.92	-13.00	54.92	191	217	Horizontal
3	1411.2823	-51.42	-49.13	-13.00	36.13	213	233	Horizontal
4	2117.0234	-59.24	-51.33	-13.00	38.33	266	157	Horizontal
5	10603.5041	-58.54	-52.27	-13.00	39.27	184	245	Horizontal
6	16390.1356	-57.76	-43.49	-13.00	30.49	231	4	Horizontal



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7.4. Test Band = LTE_Band=17 BW=10MHz_TM1

7.4.1. Test Channel = 23790

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	109.9320	-71.61	-65.22	-13.00	52.22	174	246	Vertical
2	456.9668	-71.71	-67.47	-13.00	54.47	185	272	Vertical
3	1410.8822	-57.32	-54.58	-13.00	41.58	196	342	Vertical
4	2116.6233	-63.48	-55.54	-13.00	42.54	213	181	Vertical
5	14495.2598	-59.86	-47.39	-13.00	34.39	262	164	Vertical
6	17997.5999	-57.45	-39.63	-13.00	26.63	254	272	Vertical



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7.5. Test Band = LTE_Band=17 BW=10MHz_TM1

7.5.1. Test Channel = 23800

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.1071	-71.11	-64.29	-13.00	51.29	258	84	Horizontal
2	459.2950	-71.15	-67.48	-13.00	54.48	174	57	Horizontal
3	1412.8826	-49.06	-46.75	-13.00	33.75	185	299	Horizontal
4	2119.8240	-57.85	-49.91	-13.00	36.91	196	163	Horizontal
5	9336.2535	-58.25	-52.65	-13.00	39.65	231	246	Horizontal
6	16390.1356	-57.75	-43.48	-13.00	30.48	262	138	Horizontal



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7.6. Test Band = LTE_Band=17 BW=10MHz_TM1
7.6.1. Test Channel = 23800

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	111.3386	-70.91	-64.62	-13.00	51.62	174	138	Vertical
2	496.2538	-71.71	-67.19	-13.00	54.19	185	352	Vertical
3	1412.8826	-57.57	-54.81	-13.00	41.81	196	216	Vertical
4	2119.8240	-62.74	-54.76	-13.00	41.76	231	180	Vertical
5	14468.8588	-59.65	-47.39	-13.00	34.39	251	218	Vertical
6	17993.3997	-57.21	-39.50	-13.00	26.50	161	352	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 [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-10.80	-0.015233	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-7.20	-0.010155	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-9.20	-0.012976	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.60	-0.002254	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-12.20	-0.017183	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-9.60	-0.013502	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-7.00	-0.009845	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-8.70	-0.012236	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-7.60	-0.010719	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-5.00	-0.007052	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-4.50	-0.006338	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-5.50	-0.007746	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-4.80	-0.006751	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-6.80	-0.009564	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-2.90	-0.004090	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-6.60	-0.009309	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-7.00	-0.009873	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-8.60	-0.012113	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-5.70	-0.008028	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-13.00	-0.018284	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-6.70	-0.009423	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-2.40	-0.003376	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
------	-----------	------------	---------	--------------	---------------	------------------	----------------	-----------------	-------------	---------



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Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-6.70	-0.009450	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-7.70	-0.010860	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-3.20	-0.004513	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-1.00	-0.001410	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-1.90	-0.002680	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-9.10	-0.012835	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-5.70	-0.008028	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.10	0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-11.30	-0.015915	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-6.90	-0.009718	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.00	-0.002817	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	0.10	0.000141	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-9.40	-0.013221	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-4.60	-0.006470	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-10.10	-0.014205	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-8.40	-0.011814	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-5.60	-0.007876	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-13.80	-0.019464	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	-6.60	-0.009309	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	-6.80	-0.009591	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-7.50	-0.010578	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-7.50	-0.010578	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-8.70	-0.012271	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	-6.20	-0.008745	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-8.40	-0.011831	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-11.00	-0.015493	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-7.30	-0.010282	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-9.10	-0.012817	±2.5	PASS



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Band17	10MHz	64QAM	23790	50RB#0	NV	40	-6.80	-0.009577	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-3.90	-0.005493	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-8.80	-0.012377	±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	0	-4.40	-0.006188	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-1.80	-0.002532	±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	30	-14.10	-0.019831	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-3.70	-0.005204	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-5.50	-0.007736	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-3.50	-0.004937	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-10.80	-0.015233	±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	20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-5.70	-0.008039	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-5.20	-0.007334	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-1.50	-0.002113	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-2.30	-0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-5.70	-0.008028	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.80	-0.005352	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-4.60	-0.006470	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-3.10	-0.004360	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-2.90	-0.004079	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-8.00	-0.011252	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-6.10	-0.008579	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-5.30	-0.007454	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.70	-0.002391	±2.5	PASS



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