Appendix B

E-UTRA Band 13

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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER 3

1.1. TEST RESULT 3

2. PEAK-TO-AVERAGE RATIO (CCDF) 6

2.1. TEST RESULT 6

2.2. TEST PLOTS 6

3. MODULATION CHARACTERISTICS 8

3.1. TEST MODE = LTE /TM1 10MHZ 8

3.1.1. TEST CHANNEL = MCH 8

3.2. TEST MODE = LTE /TM2 10MHZ 9

3.2.1. TEST CHANNEL = MCH 9

3.3. TEST MODE = LTE /TM3 10MHZ 10

3.3.1. TEST CHANNEL = MCH 10

4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 11

4.1. TEST RESULT 11

4.2. TEST PLOTS 12

5. BAND EDGE COMPLIANCE 18

5.1. TEST RESULT 18

5.2. TEST PLOTS 19

6. SPURIOUS EMISSION AT ANTENNA TERMINAL 31

6.1. TEST PLOTS 31

7. FIELD STRENGTH OF SPURIOUS RADIATION 33

7.1. TEST MODE =LTE/TM1 10MHZ 33

7.1.1. TEST CHANNEL = MCH 33

8. FREQUENCY STABILITY 34

8.1. FREQUENCY VS VOLTAGE 34

8.2. FREQUENCY VS TEMPERATURE 34

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.55	16.90	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#13	23.80	17.15	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.85	17.20	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.67	16.02	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.67	16.02	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.69	16.04	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.74	16.09	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.71	17.06	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#13	23.58	16.93	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.30	16.65	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.68	16.03	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.61	15.96	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.59	15.94	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.70	16.05	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.59	16.94	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#13	23.30	16.65	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.48	16.83	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.66	16.01	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.49	15.84	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.50	15.85	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.53	15.88	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.62	14.97	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#13	21.61	14.96	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.58	14.93	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.62	13.97	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.59	13.94	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.72	14.07	34.77	PASS

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Band13	5MHz	64QAM	23205	25RB#0	20.54	13.89	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.63	14.98	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#13	21.59	14.94	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.50	14.85	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.53	13.88	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.50	13.85	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.69	14.04	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.60	13.95	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.55	14.90	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#13	21.55	14.90	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.50	14.85	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.66	14.01	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.69	14.04	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.61	13.96	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.59	13.94	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.63	15.98	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#13	23.02	16.37	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.73	16.08	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.69	15.04	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.64	14.99	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.75	15.10	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.72	15.07	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.24	16.59	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#13	22.92	16.27	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.95	16.30	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.68	15.03	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.69	15.04	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.60	14.95	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.69	15.04	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.10	16.45	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#13	22.89	16.24	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.54	15.89	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.70	15.05	34.77	PASS

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Band13	5MHz	16QAM	23255	12RB#6	21.45	14.80	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.51	14.86	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.66	15.01	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.56	16.91	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#25	23.60	16.95	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.53	16.88	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.96	16.31	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#13	22.68	16.03	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.49	15.84	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.79	16.14	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.54	14.89	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#25	21.52	14.87	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.55	14.90	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.67	14.02	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#13	20.62	13.97	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.54	13.89	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.58	13.93	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.44	16.79	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#25	22.38	15.73	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.64	15.99	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.63	14.98	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#13	21.77	15.12	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.55	14.90	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.69	15.04	34.77	PASS

Remark:

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

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

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

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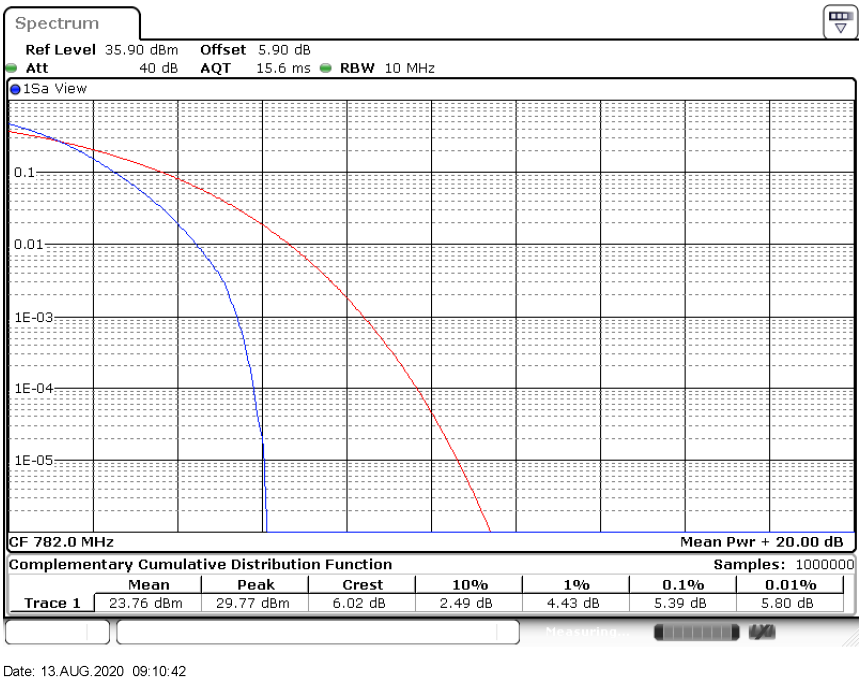
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.39	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.41	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.09	13	PASS

2.2. Test Plots

Band13-10MHz-QPSK-23230-50RB#0



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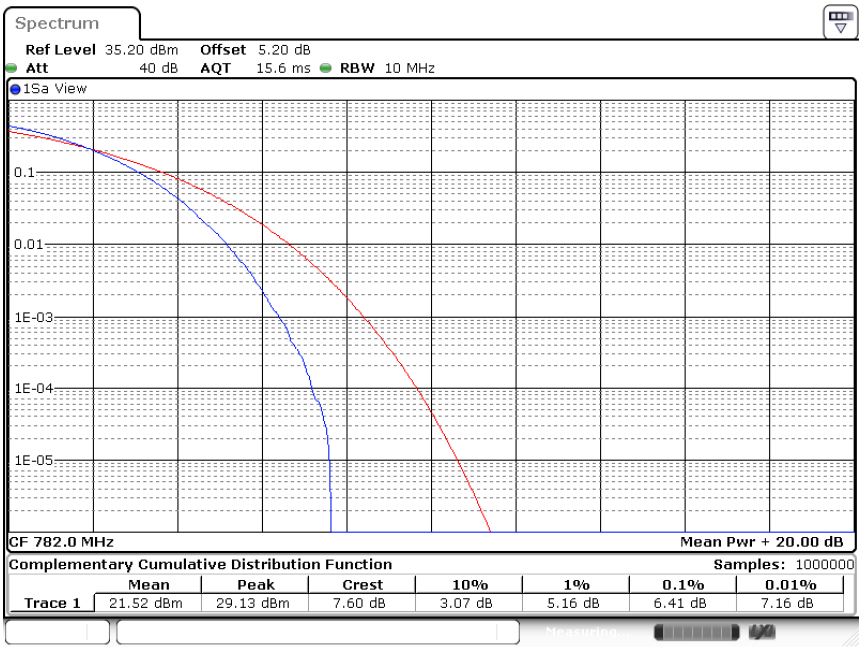
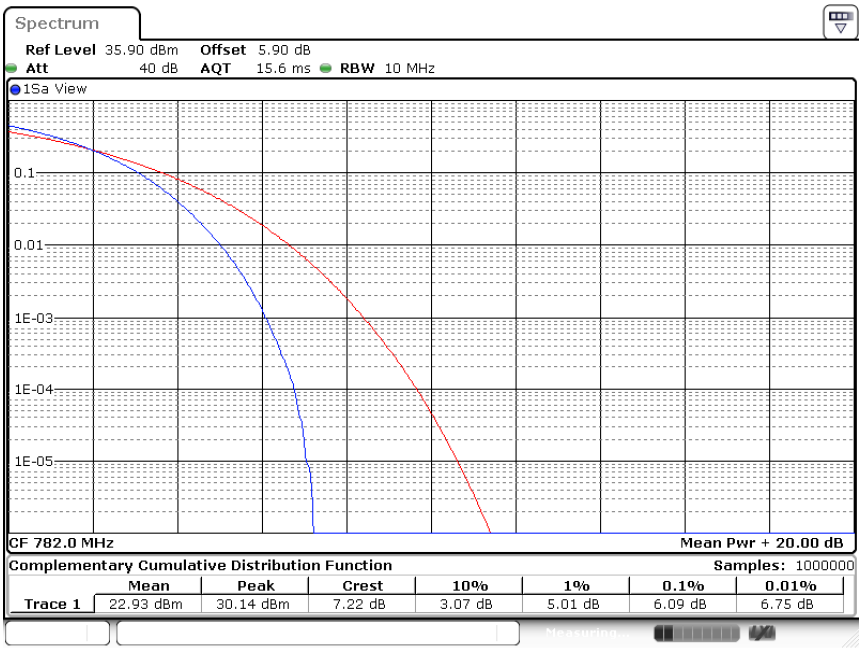
Band13-10MHz-64QAM-23230-50RB#0



Date: 19.AUG.2020 08:57:32

Band13-10MHz-16QAM-23230-50RB#0



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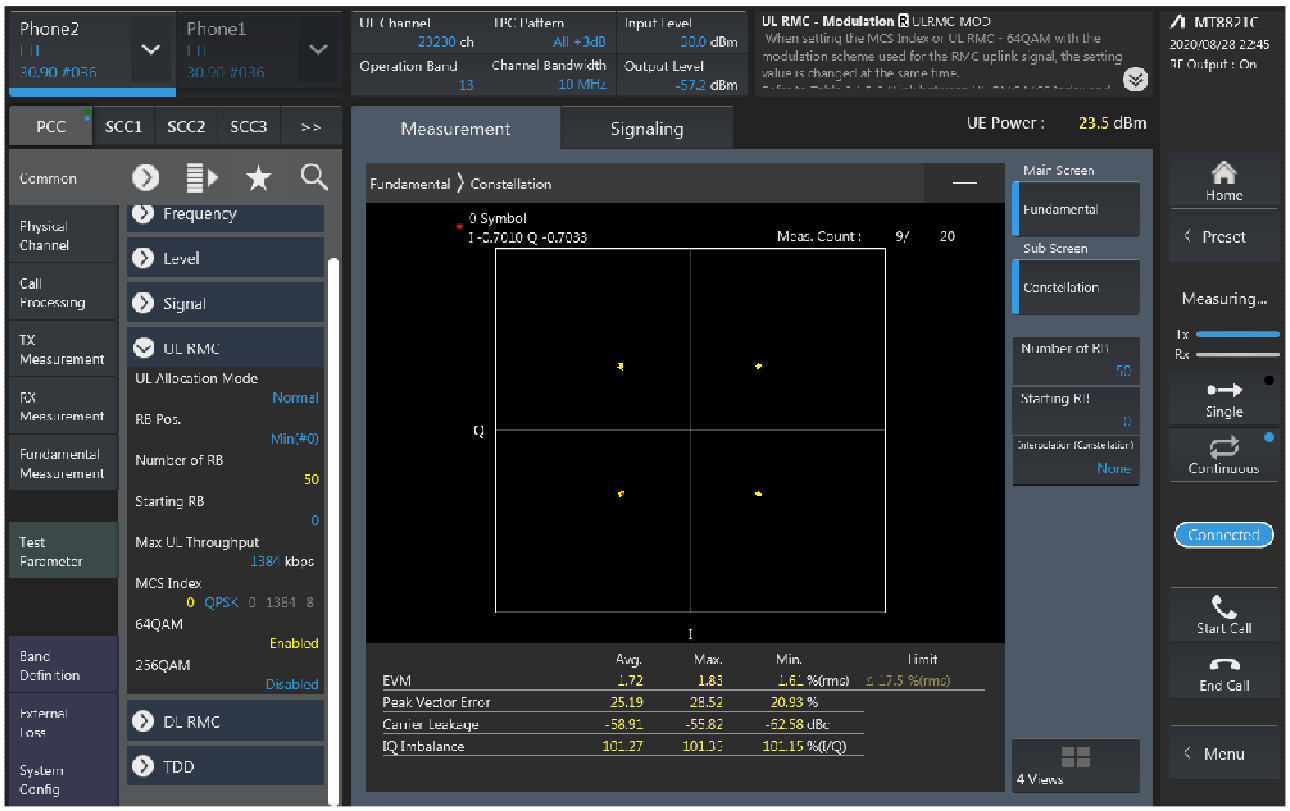
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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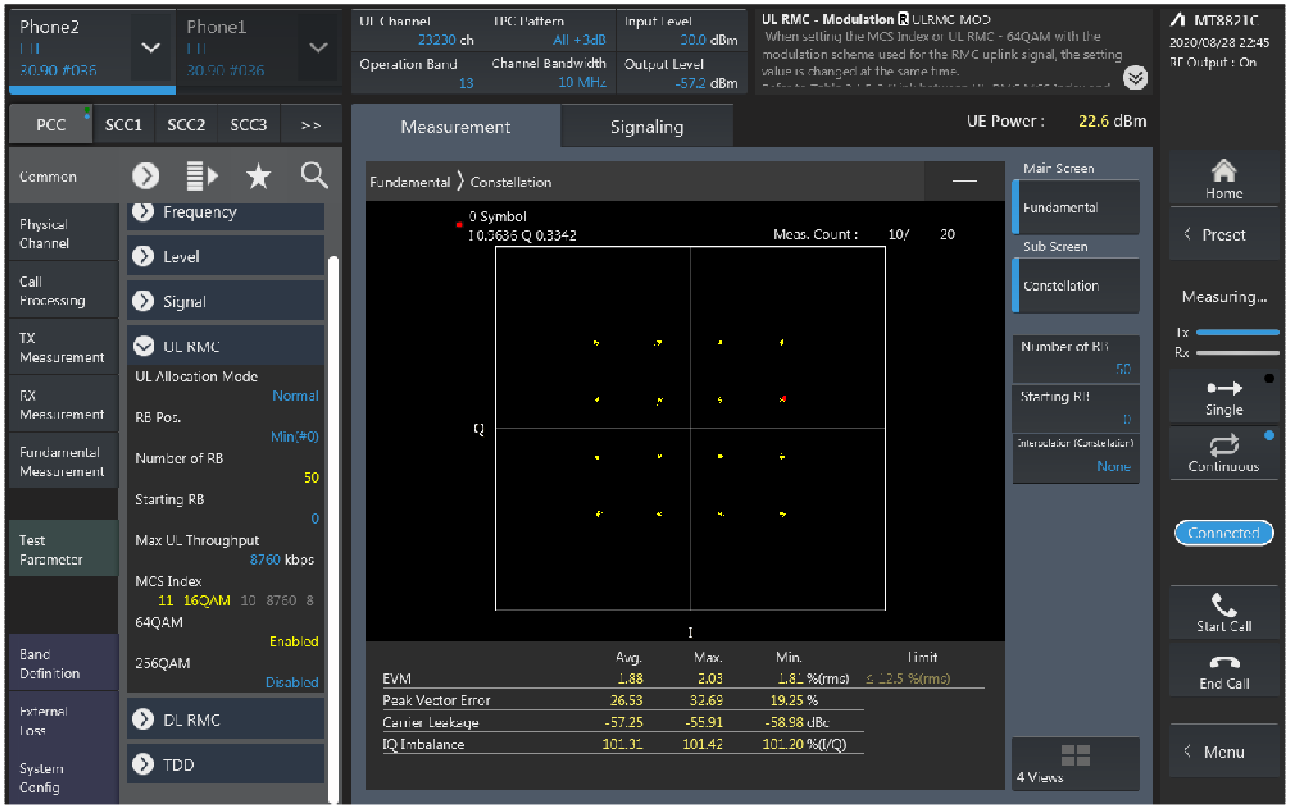
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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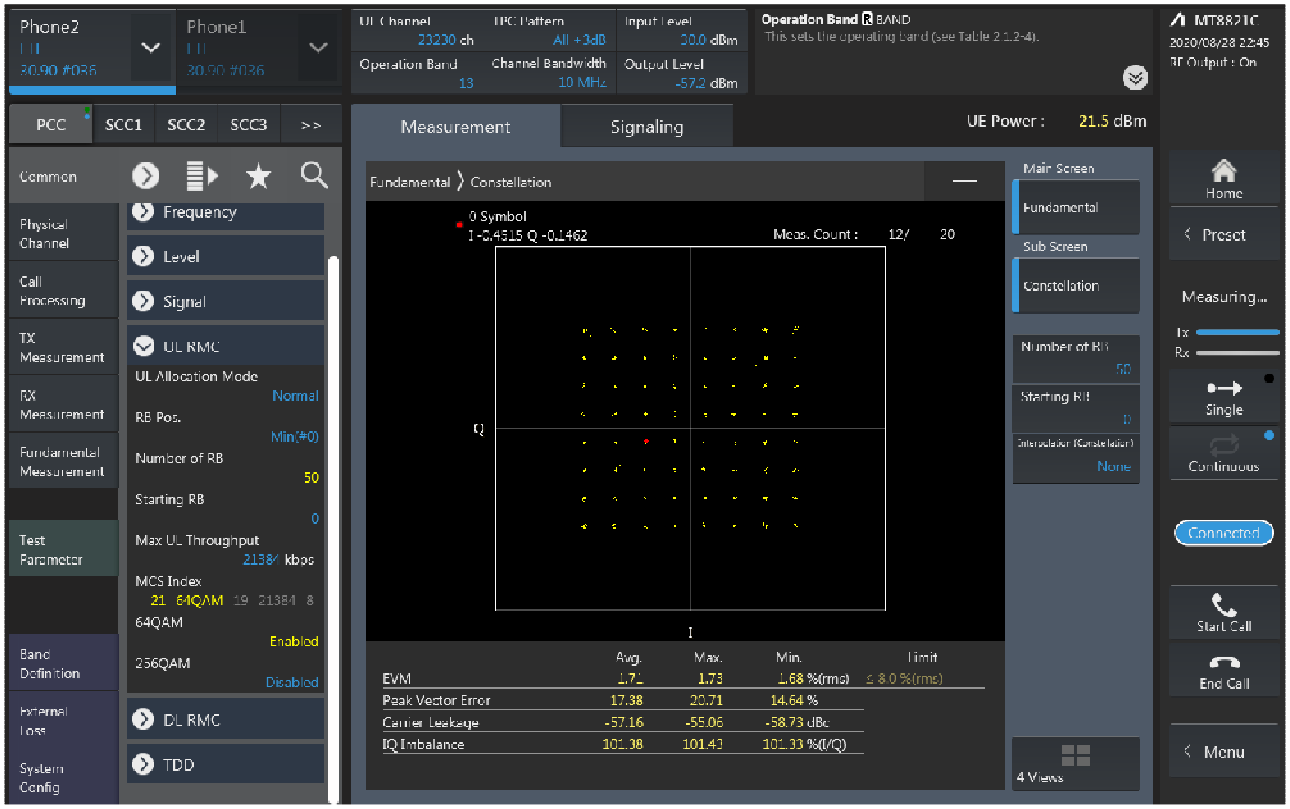
3.3. Test Mode = LTE /TM3 10MHz

3.3.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.456	4.880	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.930	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.930	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.870	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.486	4.920	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.900	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.940	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	4.950	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	4.970	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.680	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.680	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.740	PASS

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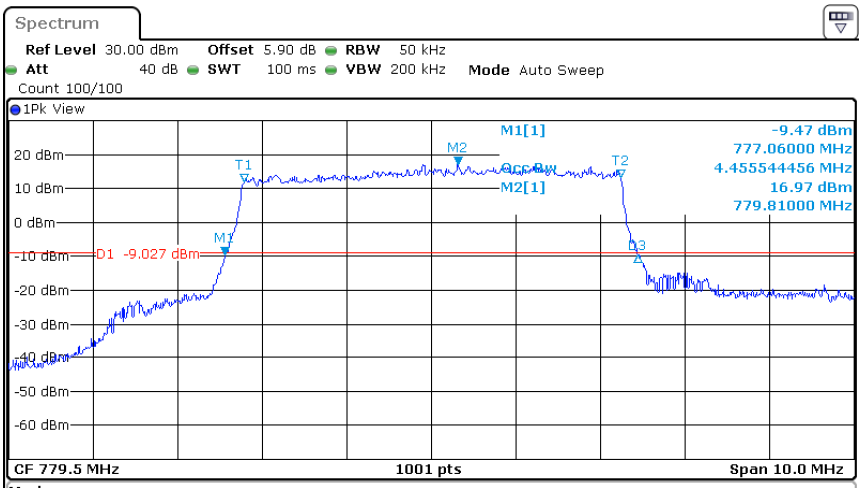
4.2. Test Plots

Band13-5MHz-QPSK-23205-25RB#0-4.456



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.06 MHz	-9.47 dBm		
T1		1	777.28222 MHz	11.82 dBm	Occ Bw	4.455544456 MHz
T2		1	781.73776 MHz	13.29 dBm		
M2		1	779.81 MHz	16.97 dBm		
D3	M1	1	4.88 MHz	-0.11 dB		

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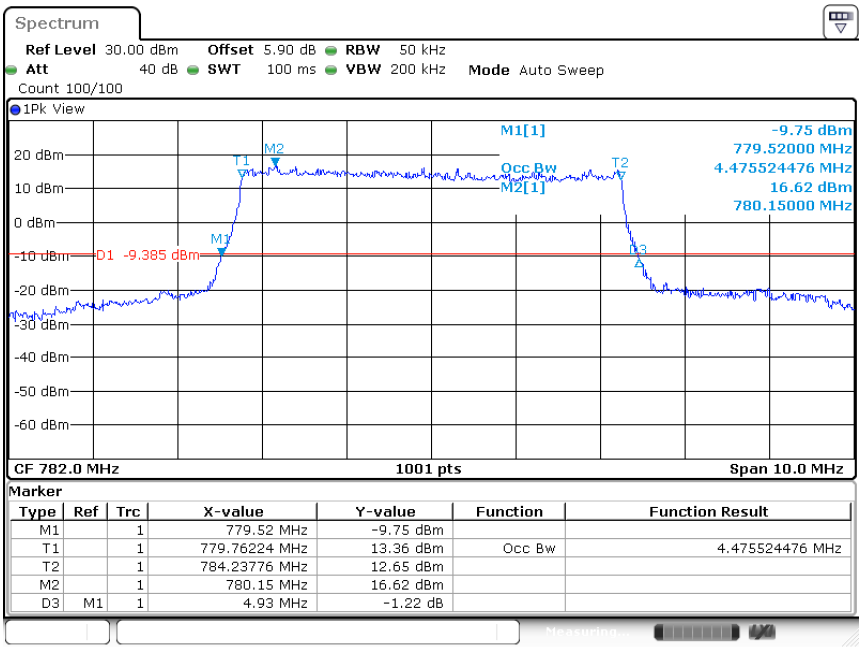
Band13-5MHz-QPSK-23230-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	779.52 MHz	-9.75 dBm		
T1		1	779.76224 MHz	13.36 dBm	Occ Bw	4.475524476 MHz
T2		1	784.23776 MHz	12.65 dBm		
M2		1	780.15 MHz	16.62 dBm		
D3	M1	1	4.93 MHz	-1.22 dB		

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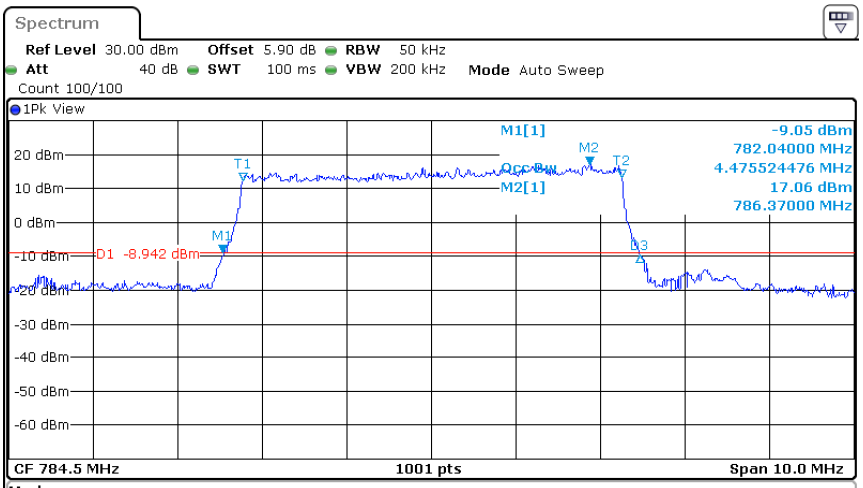
Band13-5MHz-QPSK-23255-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	782.04 MHz	-9.05 dBm		
T1		1	782.27223 MHz	12.25 dBm	Occ Bw	4.475524476 MHz
T2		1	786.74775 MHz	13.09 dBm		
M2		1	786.37 MHz	17.06 dBm		
D3	M1	1	4.93 MHz	-0.36 dB		

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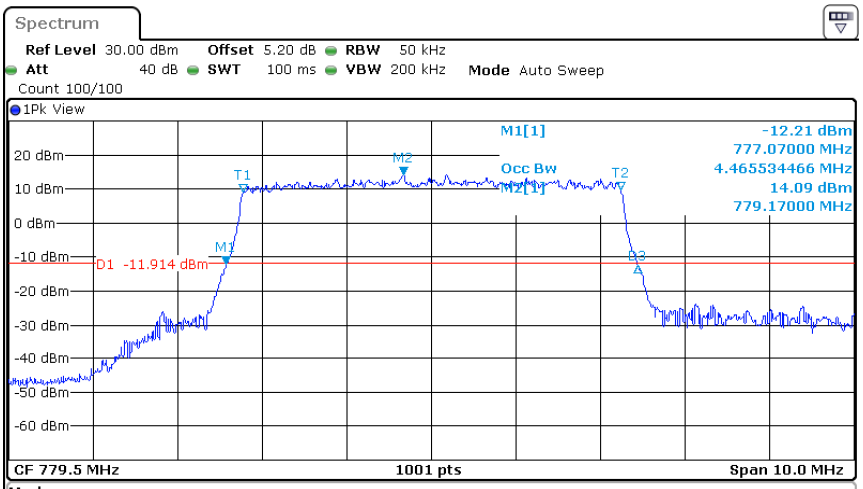
Band13-5MHz-64QAM-23205-25RB#0-4.466



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.07 MHz	-12.21 dBm		
T1		1	777.27223 MHz	9.08 dBm	Occ Bw	4.465534466 MHz
T2		1	781.73776 MHz	9.83 dBm		
M2		1	779.17 MHz	14.09 dBm		
D3	M1	1	4.87 MHz	-0.34 dB		

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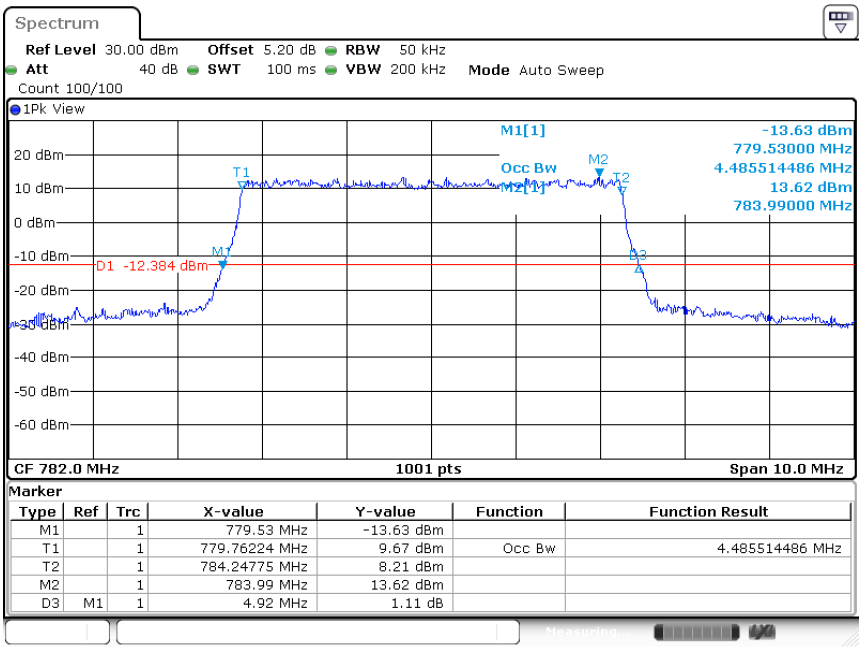
Band13-5MHz-64QAM-23230-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	779.53 MHz	-13.63 dBm		
T1		1	779.76224 MHz	9.67 dBm	Occ Bw	4.485514486 MHz
T2		1	784.24775 MHz	8.21 dBm		
M2		1	783.99 MHz	13.62 dBm		
D3	M1	1	4.92 MHz	1.11 dB		

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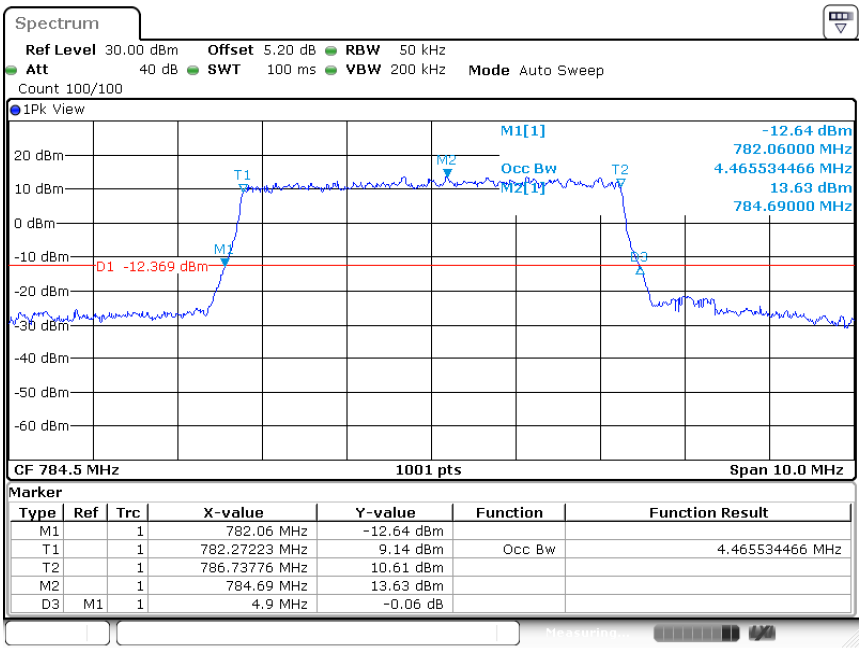
Band13-5MHz-64QAM-23255-25RB#0-4.466



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	782.06 MHz	-12.64 dBm		
T1		1	782.27223 MHz	9.14 dBm	Occ Bw	4.465534466 MHz
T2		1	786.73776 MHz	10.61 dBm		
M2		1	784.69 MHz	13.63 dBm		
D3	M1	1	4.9 MHz	-0.06 dB		

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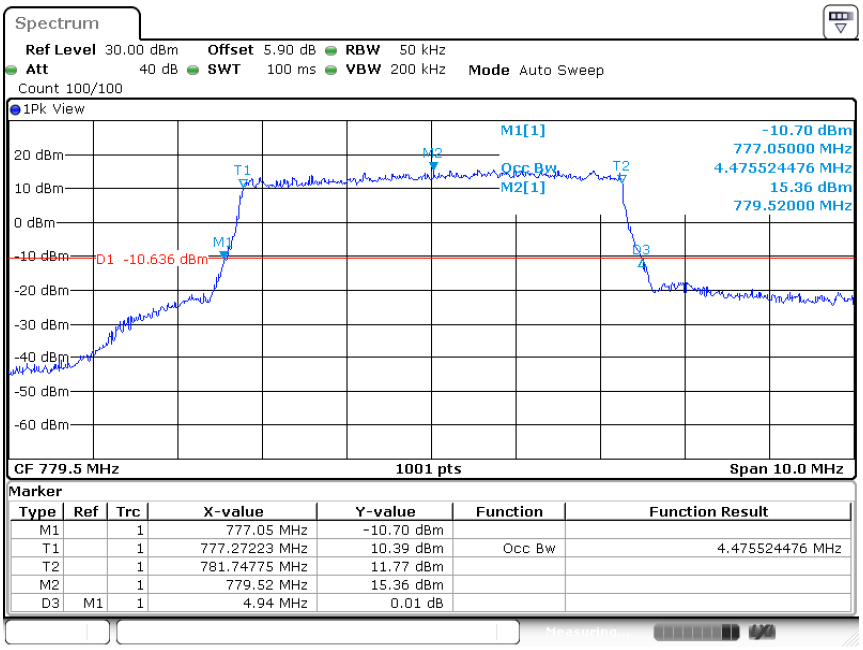
Band13-5MHz-16QAM-23205-25RB#0-4.476



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.05 MHz	-10.70 dBm		
T1		1	777.27223 MHz	10.39 dBm	Occ Bw	4.475524476 MHz
T2		1	781.74775 MHz	11.77 dBm		
M2		1	779.52 MHz	15.36 dBm		
D3	M1	1	4.94 MHz	0.01 dB		

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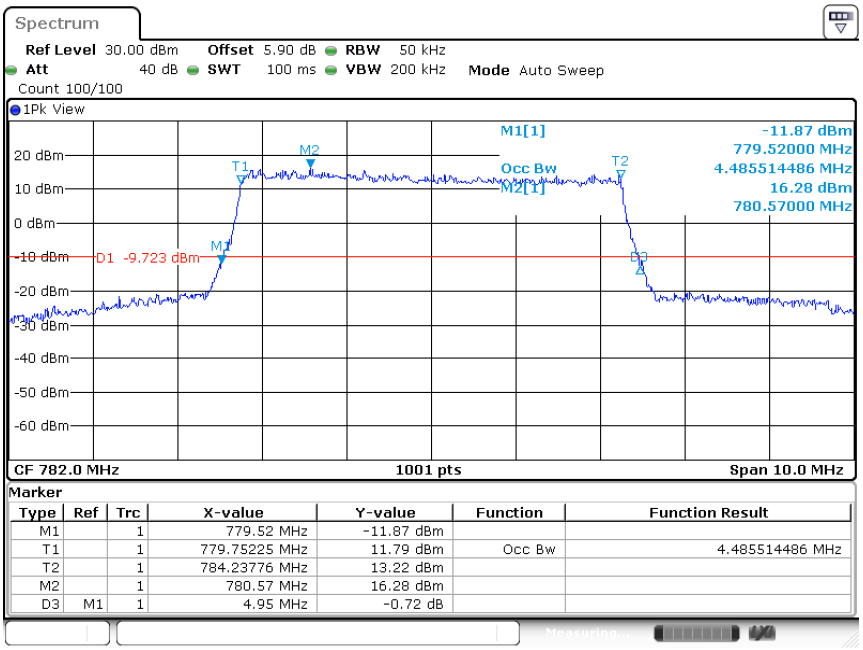
Band13-5MHz-16QAM-23230-25RB#0-4.486



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	779.52 MHz	-11.87 dBm		
T1		1	779.75225 MHz	11.79 dBm	Occ Bw	4.485514486 MHz
T2		1	784.23776 MHz	13.22 dBm		
M2		1	780.57 MHz	16.28 dBm		
D3	M1	1	4.95 MHz	-0.72 dB		

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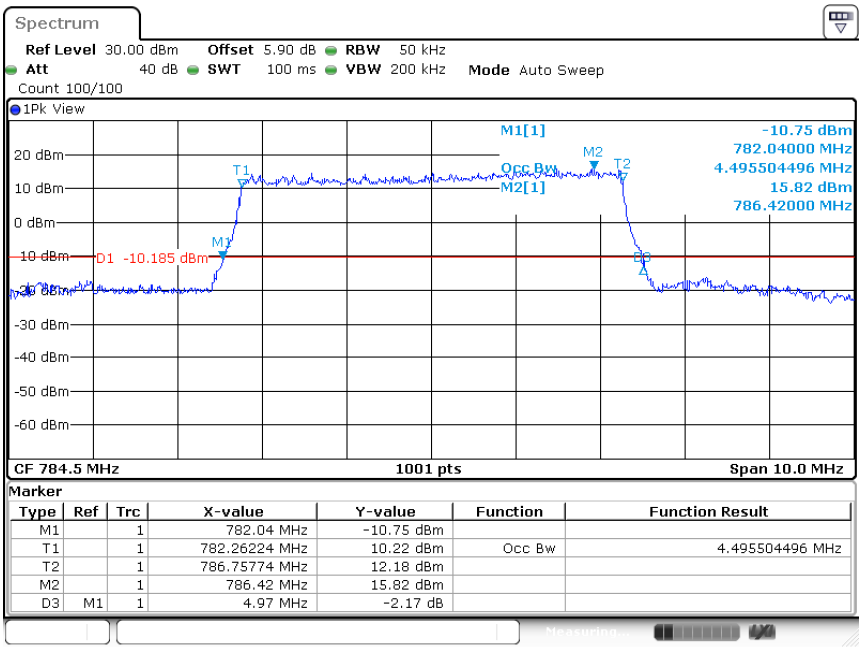
Band13-5MHz-16QAM-23255-25RB#0-4.496

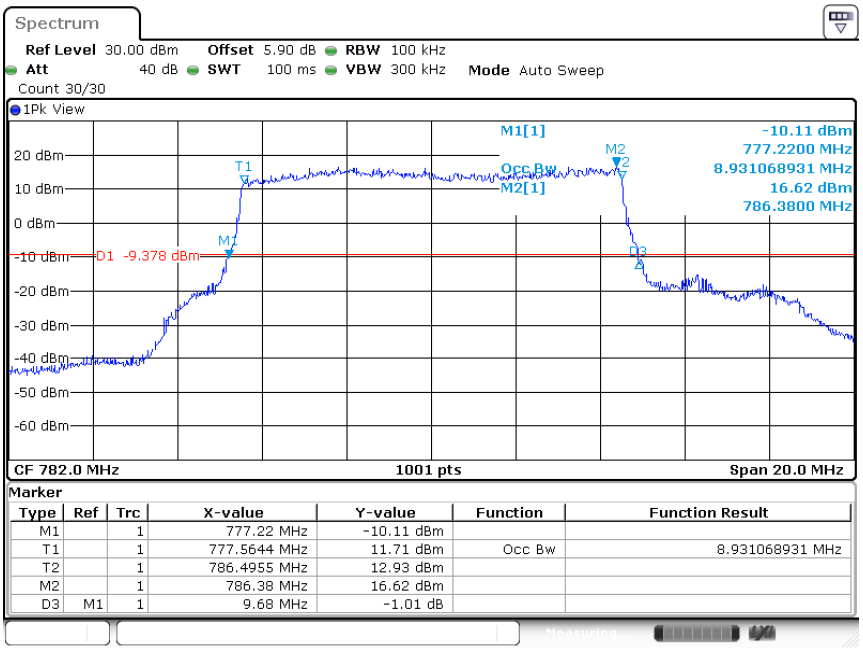


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	782.04 MHz	-10.75 dBm		
T1		1	782.26224 MHz	10.22 dBm	Occ Bw	4.495504496 MHz
T2		1	786.75774 MHz	12.18 dBm		
M2		1	786.42 MHz	15.82 dBm		
D3	M1	1	4.97 MHz	-2.17 dB		

Date: 13.AUG.2020 09:06:03

Band13-10MHz-QPSK-23230-50RB#0-8.931



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.22 MHz	-10.11 dBm		
T1		1	777.5644 MHz	11.71 dBm	Occ Bw	8.931068931 MHz
T2		1	786.4955 MHz	12.93 dBm		
M2		1	786.38 MHz	16.62 dBm		
D3	M1	1	9.68 MHz	-1.01 dB		

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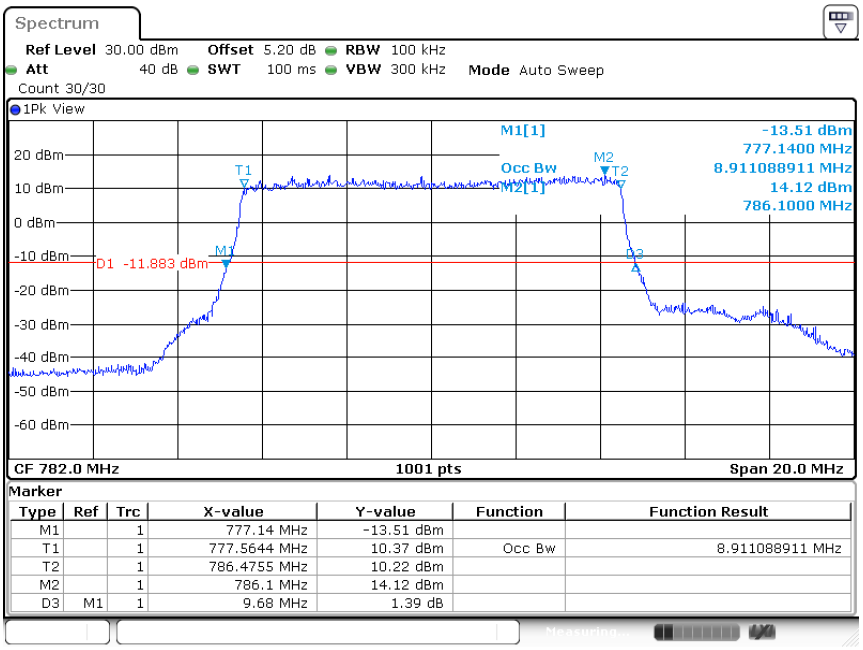
Band13-10MHz-64QAM-23230-50RB#0-8.911



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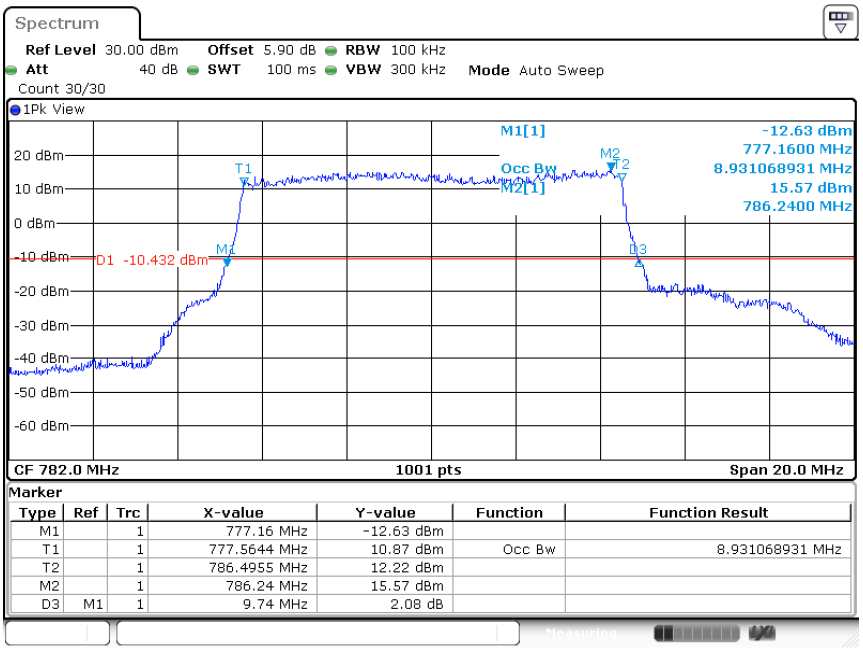
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.14 MHz	-13.51 dBm		
T1		1	777.5644 MHz	10.37 dBm	Occ Bw	8.911088911 MHz
T2		1	786.4755 MHz	10.22 dBm		
M2		1	786.1 MHz	14.12 dBm		
D3	M1	1	9.68 MHz	1.39 dB		

Date: 19.AUG.2020 08:54:28

Band13-10MHz-16QAM-23230-50RB#0-8.931



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.16 MHz	-12.63 dBm		
T1		1	777.5644 MHz	10.87 dBm	Occ Bw	8.931068931 MHz
T2		1	786.4955 MHz	12.22 dBm		
M2		1	786.24 MHz	15.57 dBm		
D3	M1	1	9.74 MHz	2.08 dB		

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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-19.33	PASS
Band13	5MHz	QPSK	23205	25RB#0	-27.74	PASS
Band13	5MHz	QPSK	23255	1RB#24	-20.02	PASS
Band13	5MHz	QPSK	23255	25RB#0	-24.89	PASS
Band13	5MHz	64QAM	23205	1RB#0	-22.36	PASS
Band13	5MHz	64QAM	23205	25RB#0	-31.60	PASS
Band13	5MHz	64QAM	23255	1RB#24	-22.22	PASS
Band13	5MHz	64QAM	23255	25RB#0	-29.64	PASS
Band13	5MHz	16QAM	23205	1RB#0	-20.31	PASS
Band13	5MHz	16QAM	23205	25RB#0	-28.26	PASS
Band13	5MHz	16QAM	23255	1RB#24	-20.60	PASS
Band13	5MHz	16QAM	23255	25RB#0	-25.38	PASS
Band13	10MHz	QPSK	23230_Left	1RB#0	-28.59	PASS
Band13	10MHz	QPSK	23230_Left	50RB#0	-31.86	PASS
Band13	10MHz	QPSK	23230_Right	1RB#49	-29.17	PASS
Band13	10MHz	QPSK	23230_Right	50RB#0	-26.43	PASS
Band13	10MHz	64QAM	23230_Left	1RB#0	-30.97	PASS
Band13	10MHz	64QAM	23230_Left	50RB#0	-34.34	PASS
Band13	10MHz	64QAM	23230_Right	1RB#49	-32.08	PASS
Band13	10MHz	64QAM	23230_Right	50RB#0	-31.63	PASS
Band13	10MHz	16QAM	23230_Left	1RB#0	-28.40	PASS
Band13	10MHz	16QAM	23230_Left	50RB#0	-32.92	PASS
Band13	10MHz	16QAM	23230_Right	1RB#49	-30.07	PASS
Band13	10MHz	16QAM	23230_Right	50RB#0	-27.42	PASS

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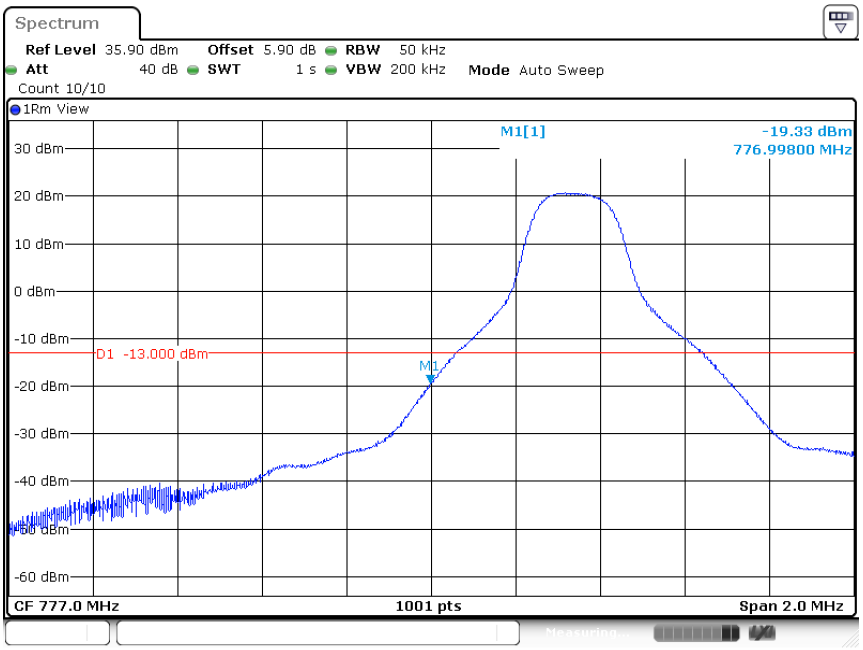
5.2. Test Plots

Band13-5MHz-QPSK-23205-1RB#0



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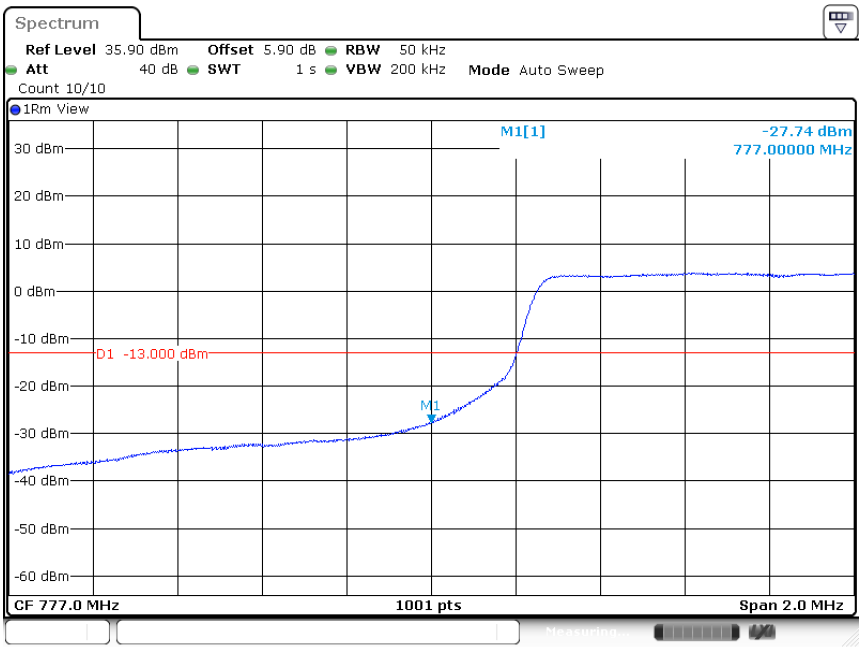

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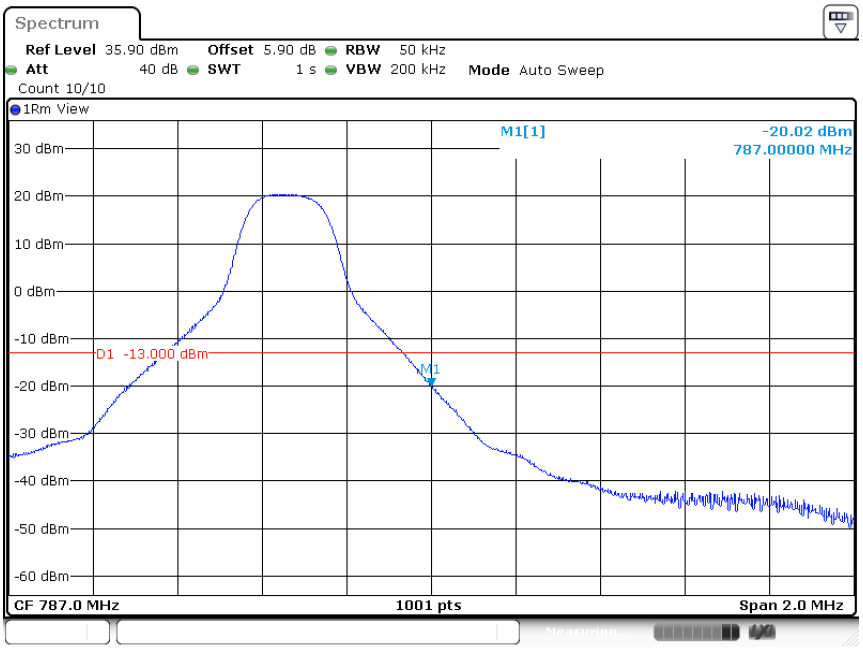
Band13-5MHz-QPSK-23255-1RB#24



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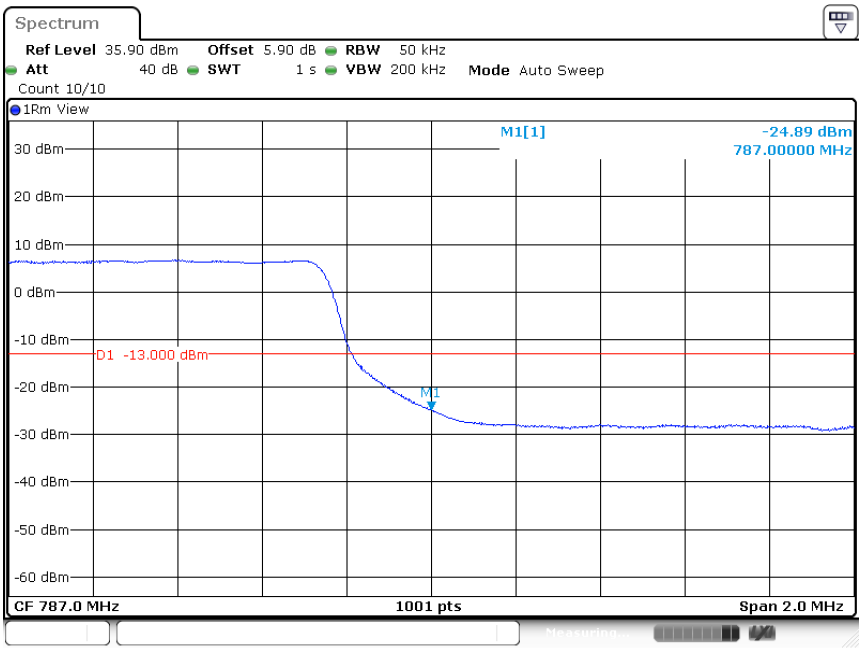

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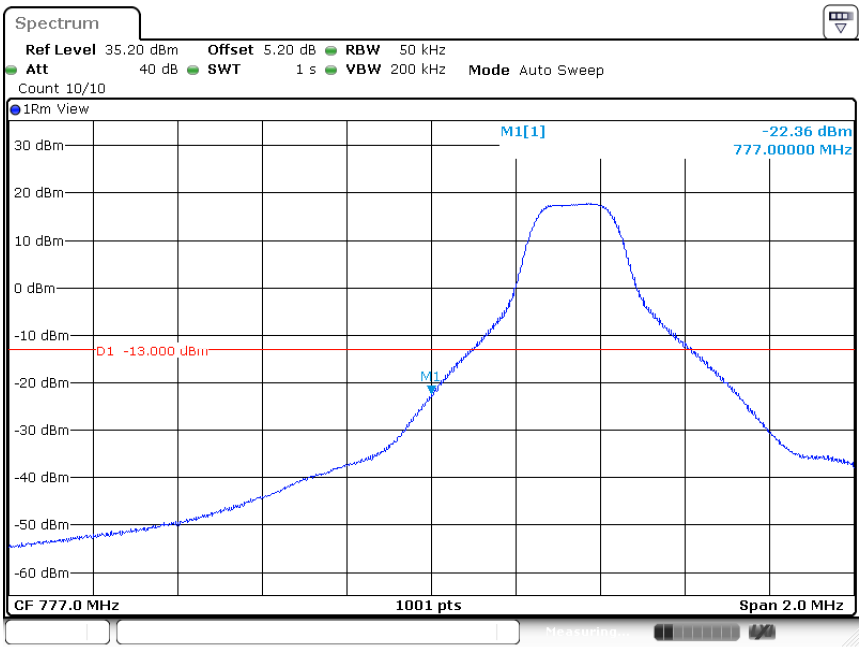
Band13-5MHz-64QAM-23205-1RB#0



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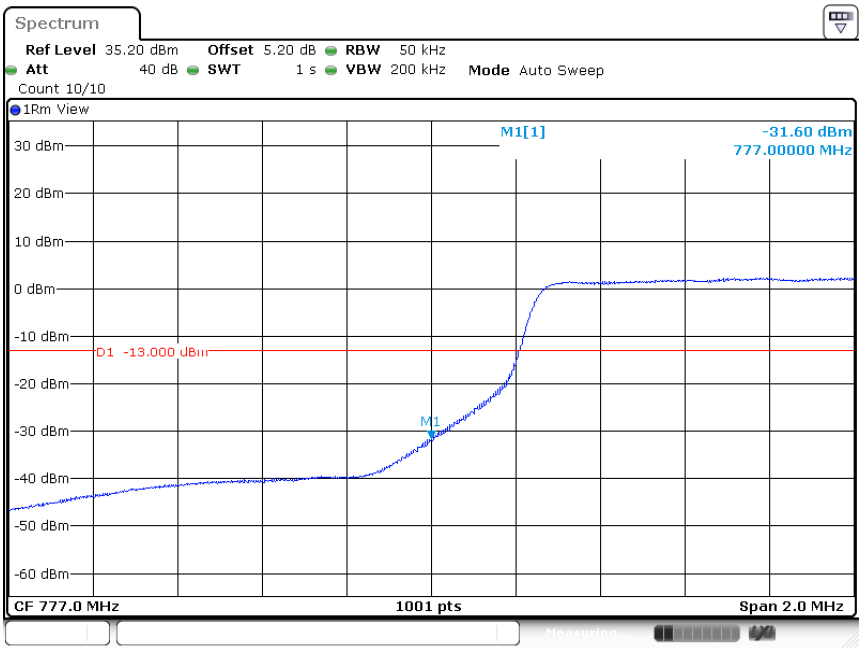
Band13-5MHz-64QAM-23205-25RB#0



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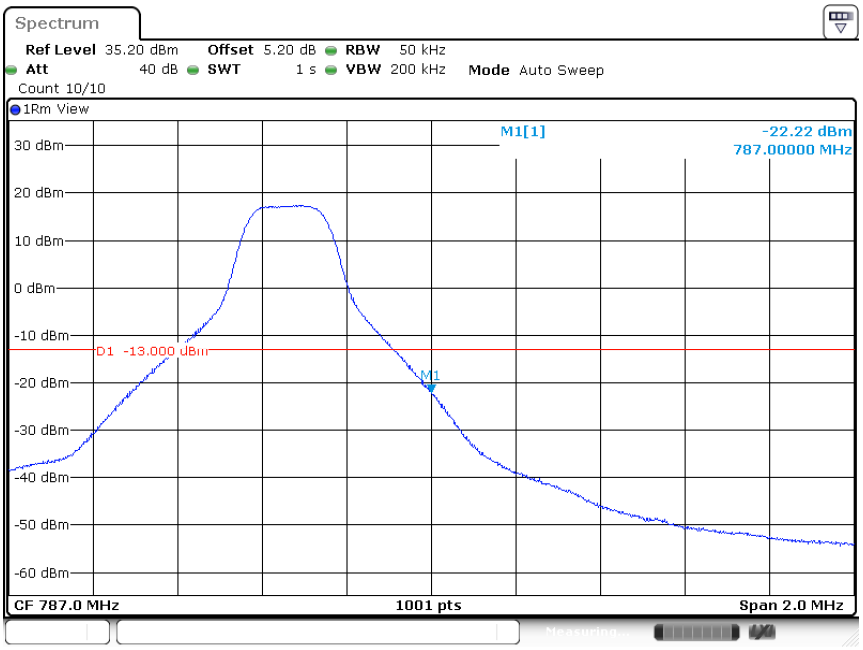
Band13-5MHz-64QAM-23255-1RB#24



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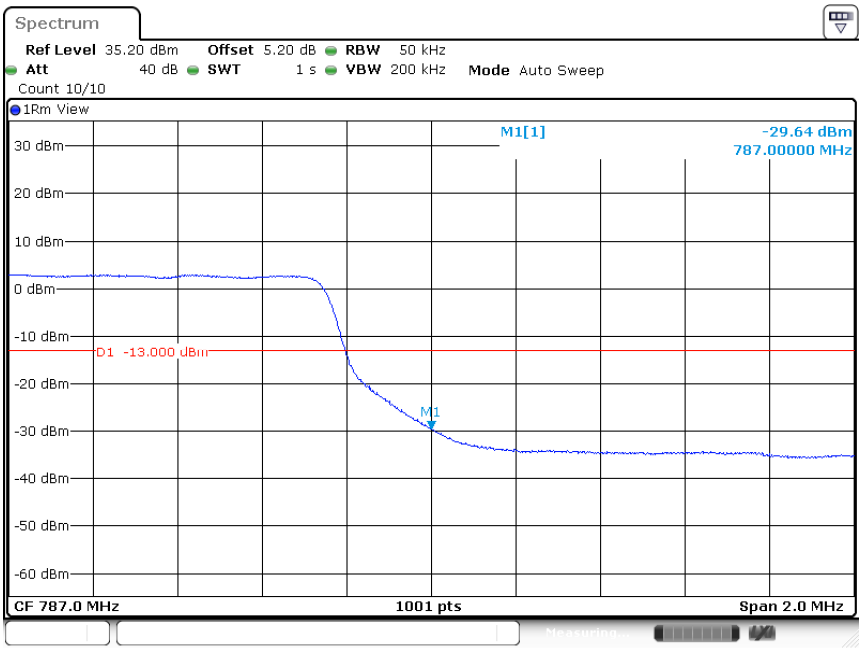
Band13-5MHz-64QAM-23255-25RB#0



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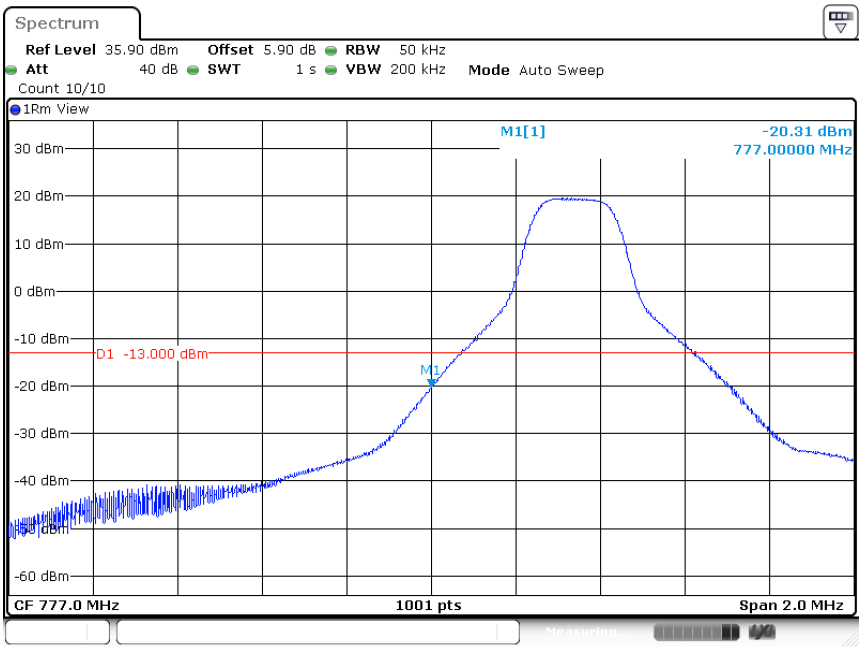
Band13-5MHz-16QAM-23205-1RB#0



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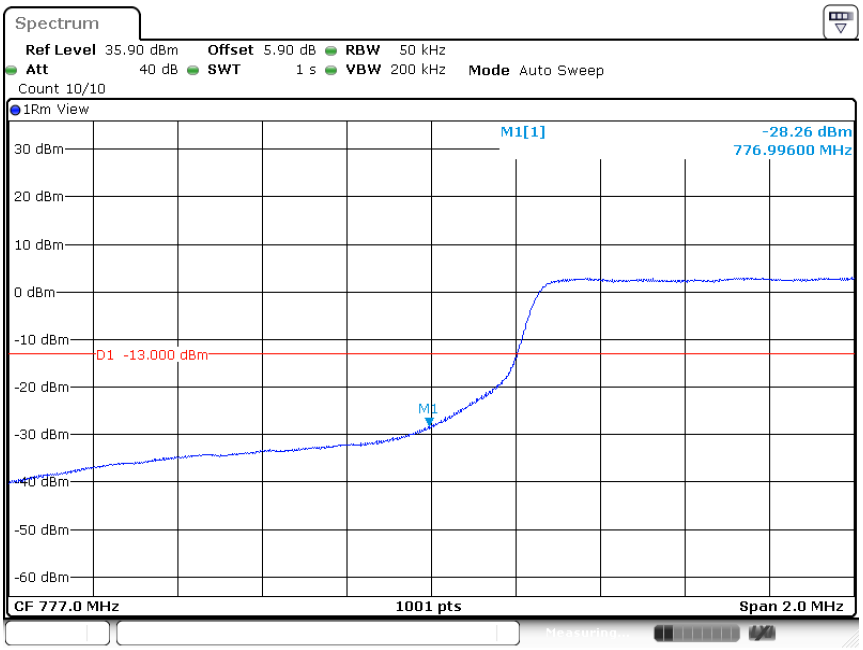
Band13-5MHz-16QAM-23205-25RB#0



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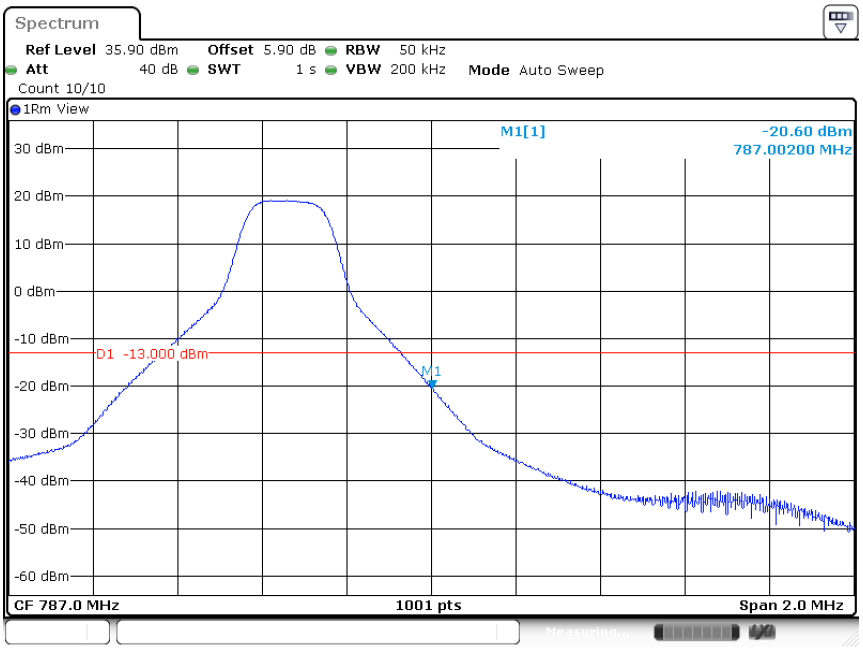
Band13-5MHz-16QAM-23255-1RB#24



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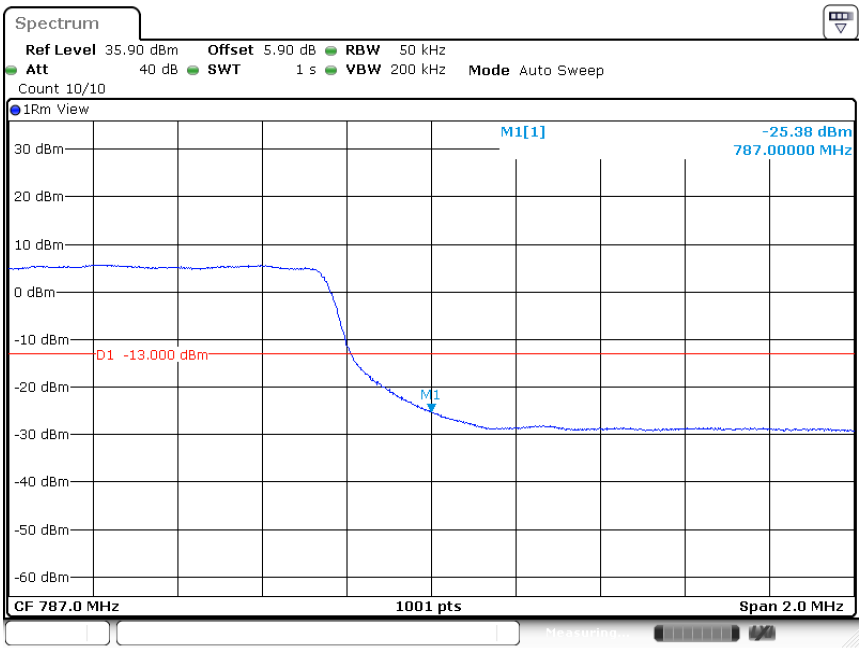

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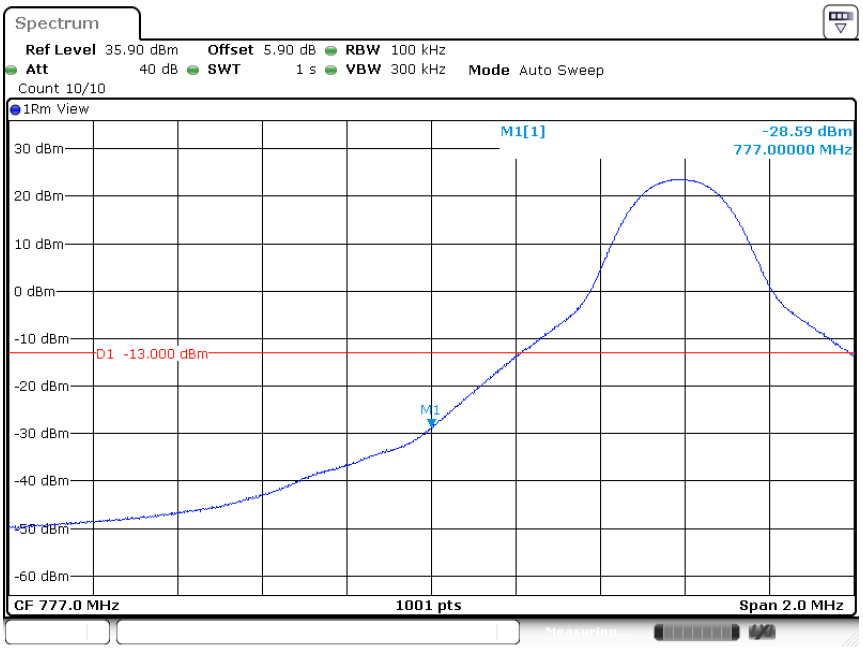
Band13-10MHz-QPSK-23230_Left-1RB#0



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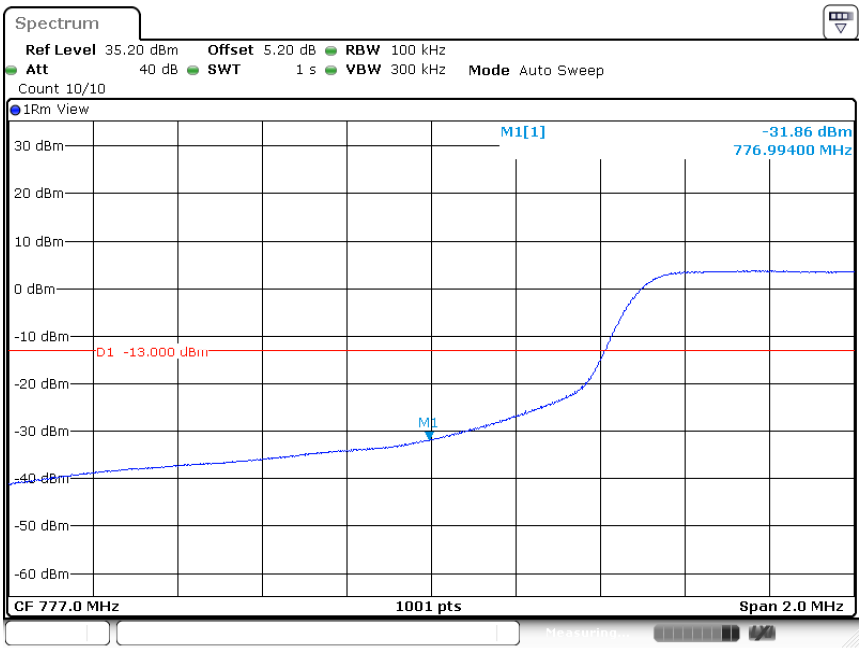
Band13-10MHz-QPSK-23230_Left-50RB#0



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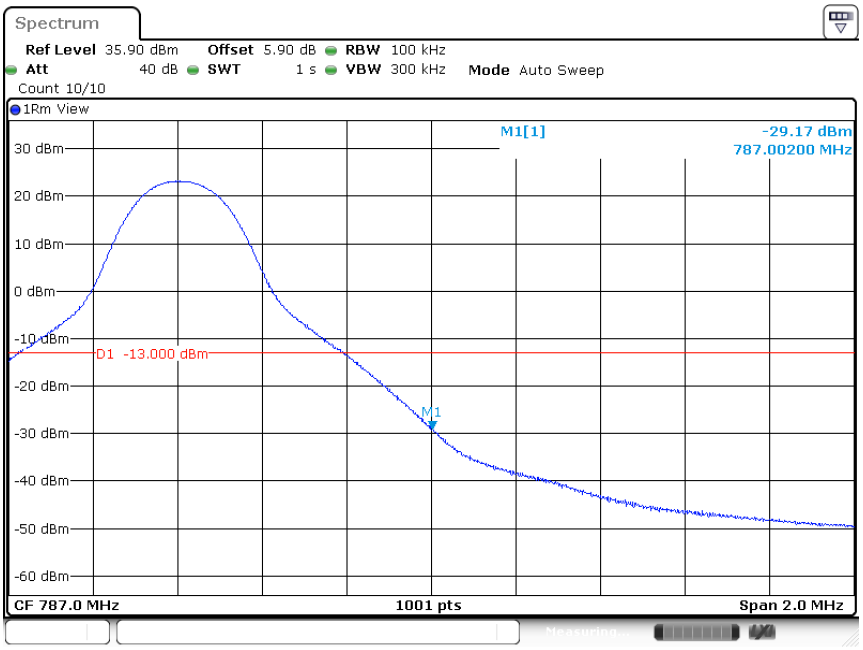
Band13-10MHz-QPSK-23230_Right-1RB#49



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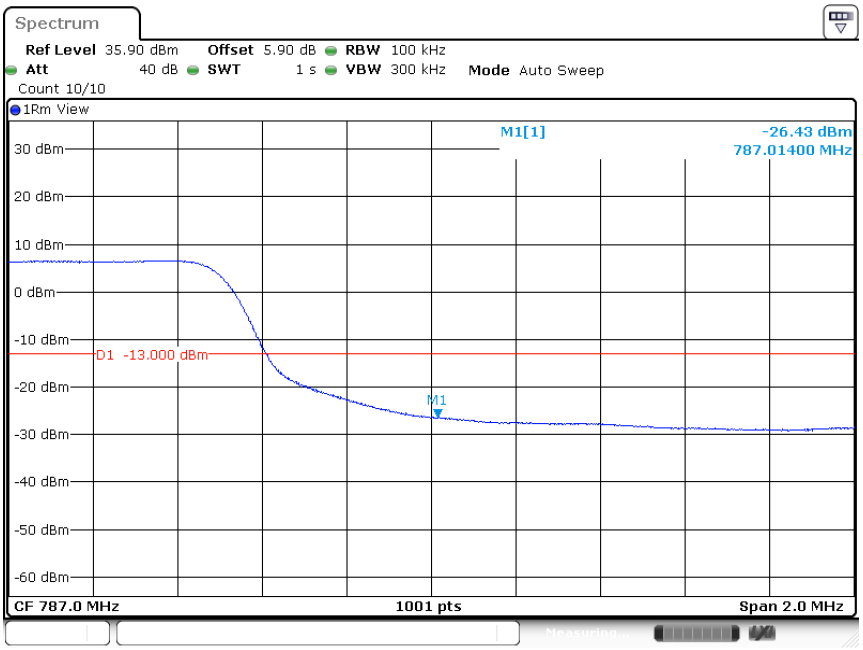

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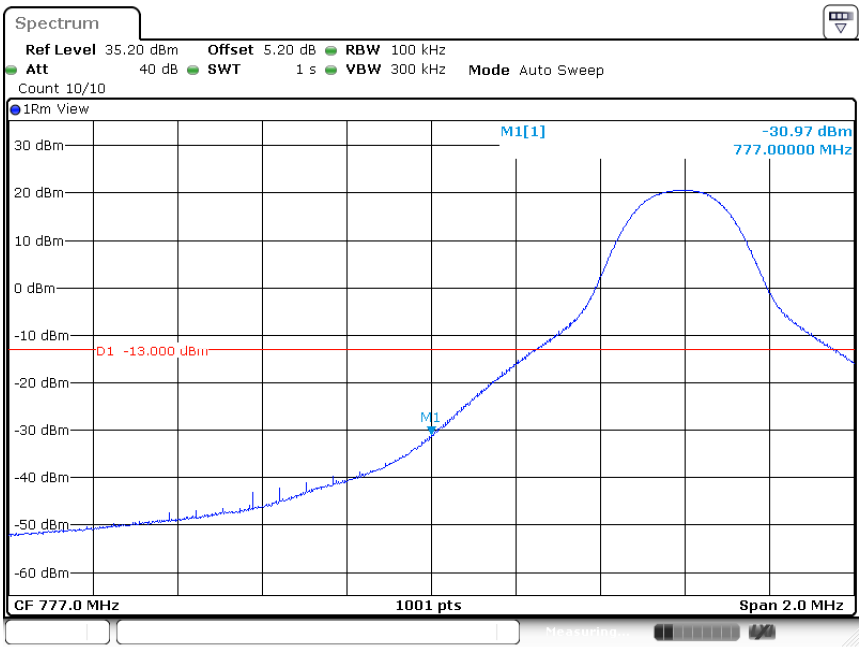
Band13-10MHz-64QAM-23230_Left-1RB#0



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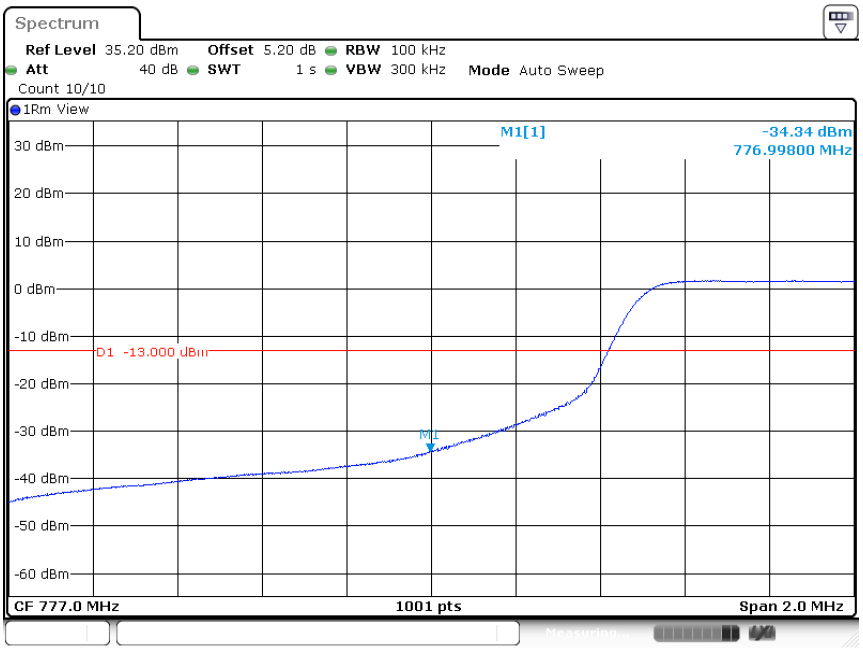
Band13-10MHz-64QAM-23230_Left-50RB#0



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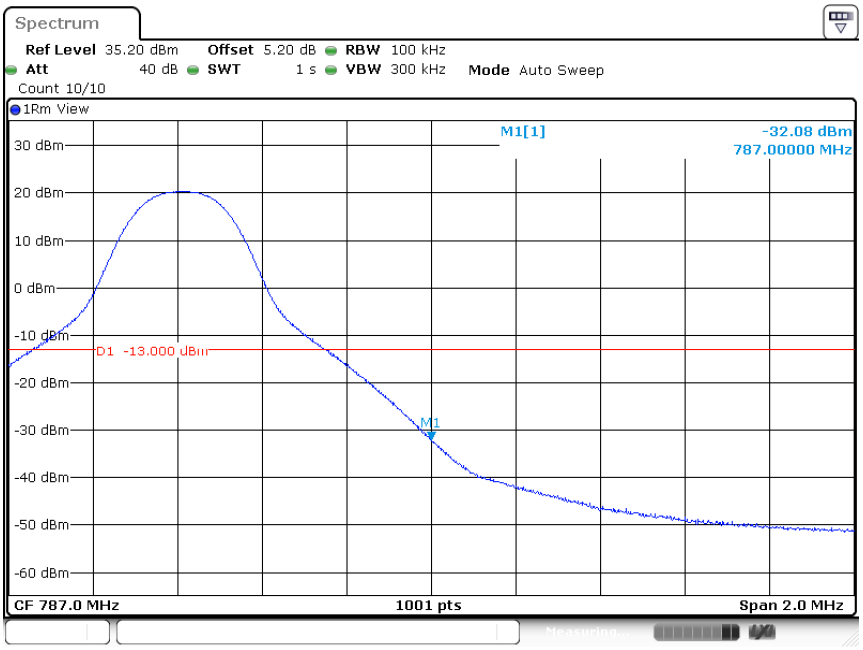
Band13-10MHz-64QAM-23230_Right-1RB#49



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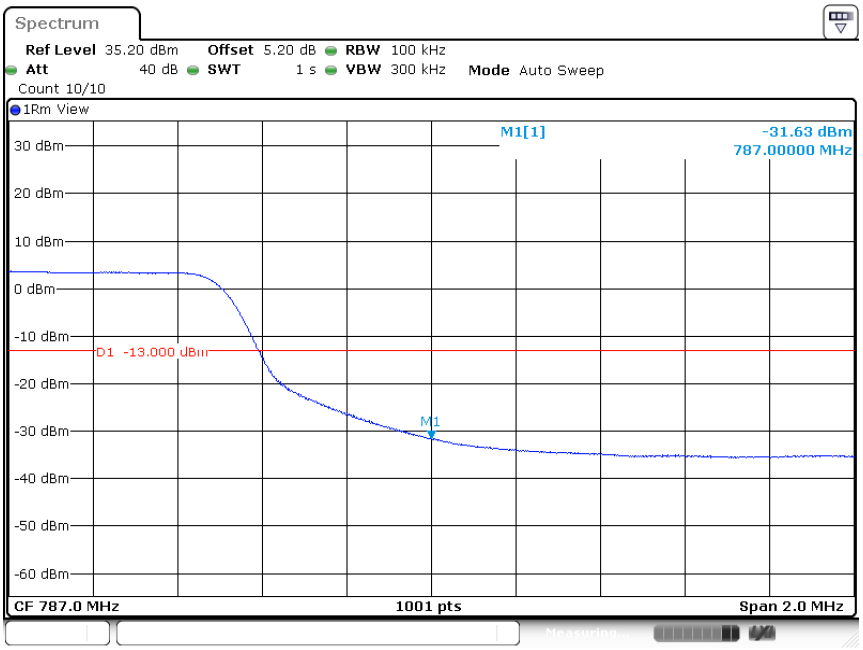

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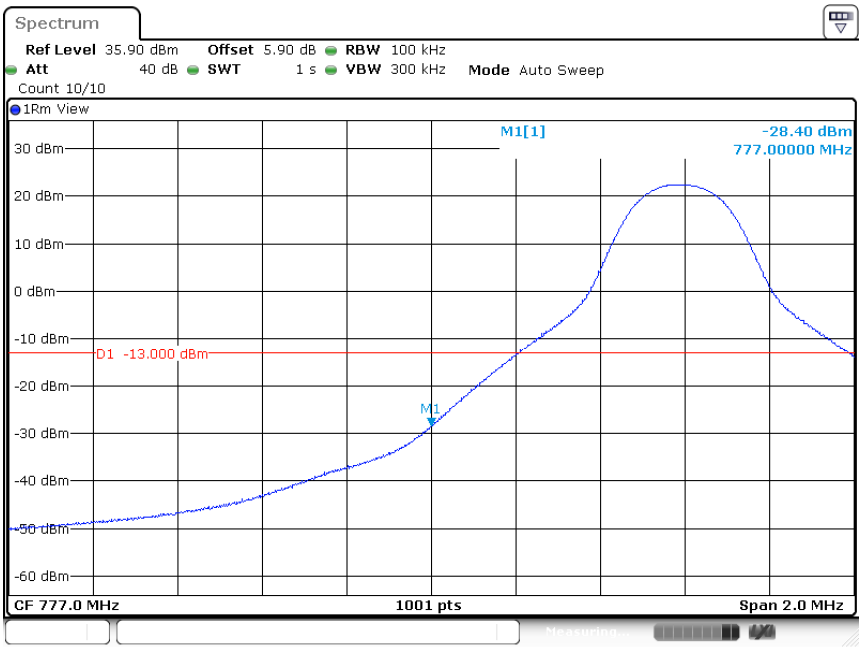
Band13-10MHz-16QAM-23230_Left-1RB#0



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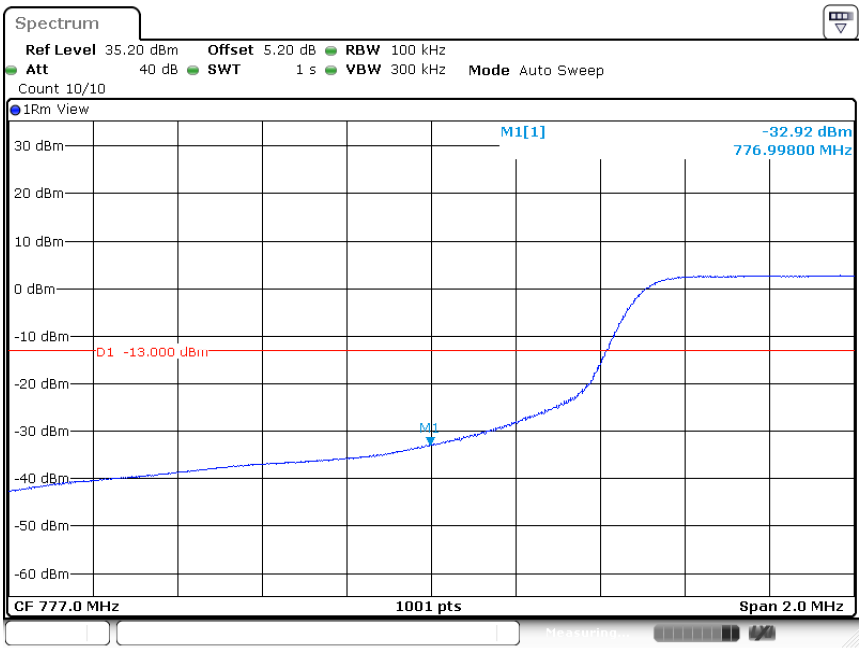

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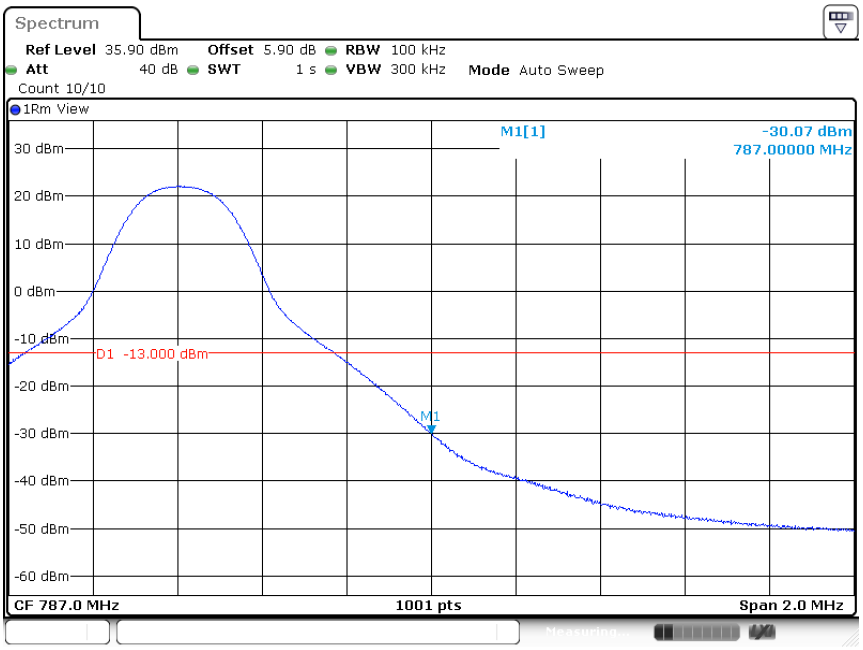
Band13-10MHz-16QAM-23230_Right-1RB#49



Date: 13.AUG.2020 09:09:58

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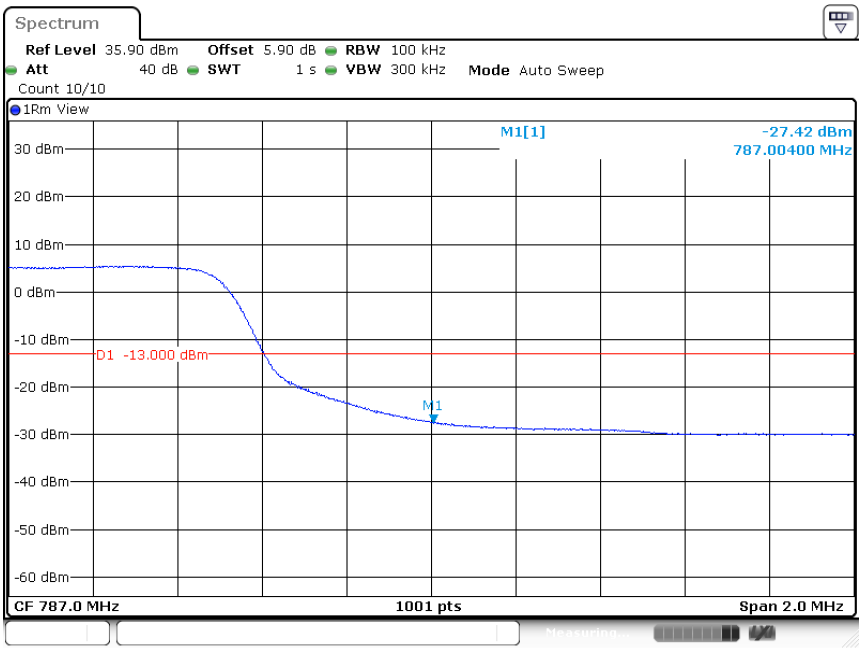

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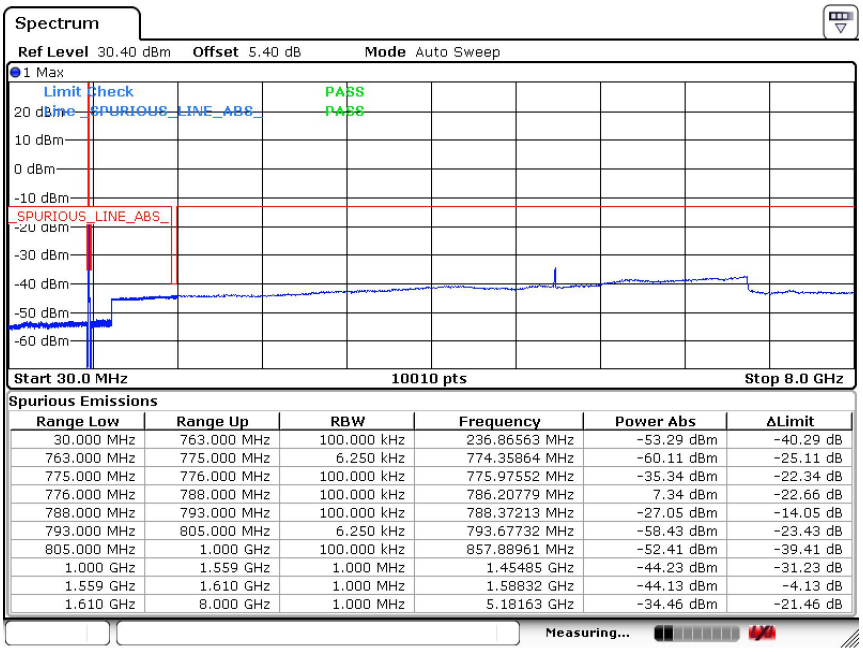
6. Spurious Emission at Antenna Terminal

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

Band13-10MHz-QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	236.86563 MHz	-53.29 dBm	-40.29 dB
763.000 MHz	775.000 MHz	6.250 kHz	774.35864 MHz	-60.11 dBm	-25.11 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.97552 MHz	-35.34 dBm	-22.34 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.20779 MHz	7.34 dBm	-22.66 dB
788.000 MHz	793.000 MHz	100.000 kHz	788.37213 MHz	-27.05 dBm	-14.05 dB
793.000 MHz	805.000 MHz	6.250 kHz	793.67732 MHz	-58.43 dBm	-23.43 dB
805.000 MHz	1.000 GHz	100.000 kHz	857.88961 MHz	-52.41 dBm	-39.41 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.45485 GHz	-44.23 dBm	-31.23 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.58832 GHz	-44.13 dBm	-4.13 dB
1.610 GHz	8.000 GHz	1.000 MHz	5.18163 GHz	-34.46 dBm	-21.46 dB

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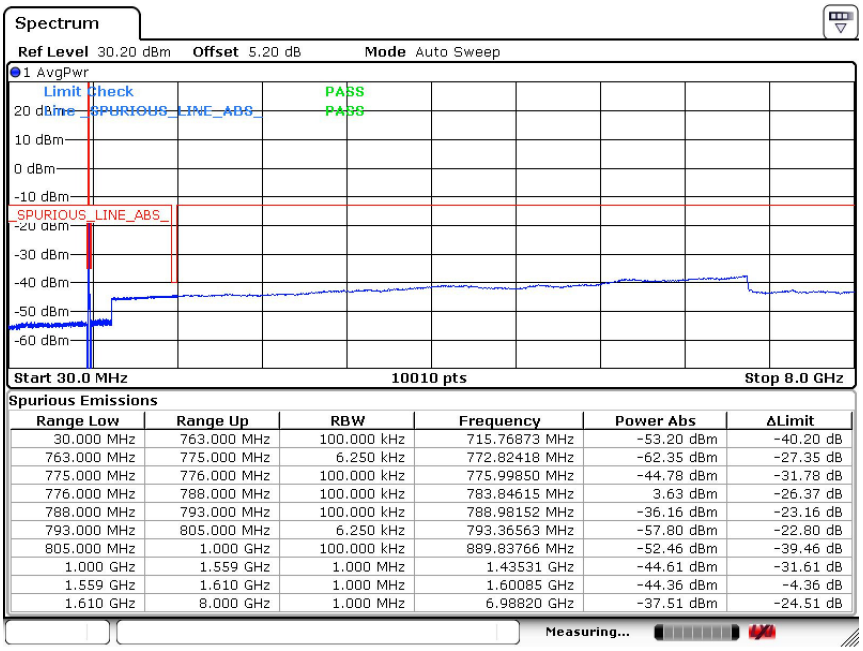
Band13-10MHz-64QAM

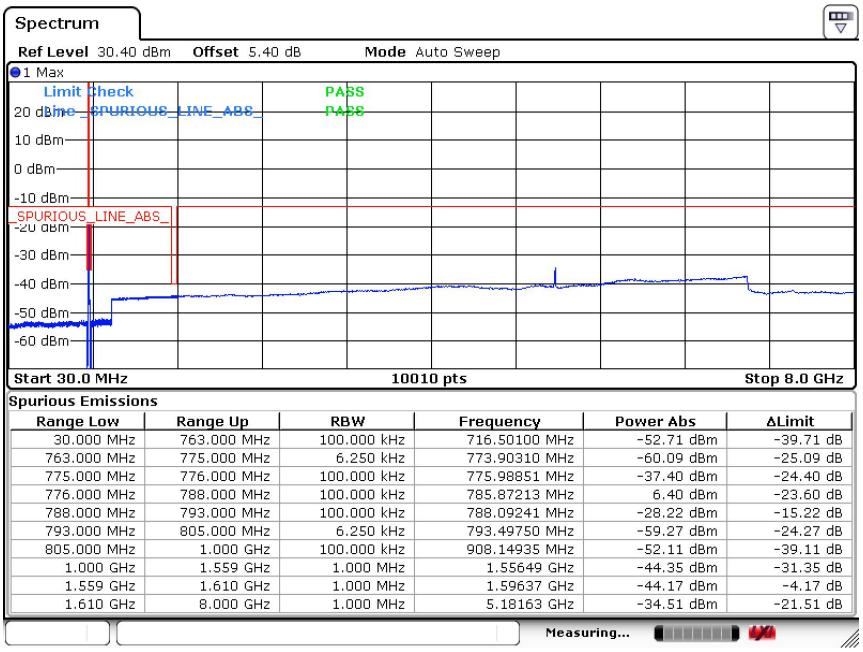


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	715.76873 MHz	-53.20 dBm	-40.20 dB
763.000 MHz	775.000 MHz	6.250 kHz	772.82418 MHz	-62.35 dBm	-27.35 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.99850 MHz	-44.78 dBm	-31.78 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.84615 MHz	3.63 dBm	-26.37 dB
788.000 MHz	793.000 MHz	100.000 kHz	788.98152 MHz	-36.16 dBm	-23.16 dB
793.000 MHz	805.000 MHz	6.250 kHz	793.36563 MHz	-57.80 dBm	-22.80 dB
805.000 MHz	1.000 GHz	100.000 kHz	889.83766 MHz	-52.46 dBm	-39.46 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.43531 GHz	-44.61 dBm	-31.61 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.60085 GHz	-44.36 dBm	-4.36 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.98820 GHz	-37.51 dBm	-24.51 dB

Date: 26.AUG.2020 10:59:31

Band13-10MHz-16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	716.50100 MHz	-52.71 dBm	-39.71 dB
763.000 MHz	775.000 MHz	6.250 kHz	773.90310 MHz	-60.09 dBm	-25.09 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.98851 MHz	-37.40 dBm	-24.40 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.87213 MHz	6.40 dBm	-23.60 dB
788.000 MHz	793.000 MHz	100.000 kHz	788.09241 MHz	-28.22 dBm	-15.22 dB
793.000 MHz	805.000 MHz	6.250 kHz	793.49750 MHz	-59.27 dBm	-24.27 dB
805.000 MHz	1.000 GHz	100.000 kHz	908.14935 MHz	-52.11 dBm	-39.11 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.55649 GHz	-44.35 dBm	-31.35 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.59637 GHz	-44.17 dBm	-4.17 dB
1.610 GHz	8.000 GHz	1.000 MHz	5.18163 GHz	-34.51 dBm	-21.51 dB

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.1884	-69.92	-13.00	56.92	Vertical
119.6325	-65.77	-13.00	52.77	Vertical
1554.9110	-58.72	-13.00	45.72	Vertical
1600.1200	-64.74	-40.00	24.74	Vertical
2333.0666	-50.66	-13.00	37.66	Vertical
7456.0982	-55.50	-13.00	42.50	Vertical
44.2597	-64.31	-13.00	51.31	Horizontal
247.1939	-67.96	-13.00	54.96	Horizontal
1555.3111	-50.66	-13.00	37.66	Horizontal
1599.7199	-64.12	-40.00	24.12	Horizontal
2333.0666	-44.78	-13.00	31.78	Horizontal
7489.4196	-55.94	-13.00	42.94	Horizontal

Remark:

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

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

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

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-1.00	-0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	1.50	0.001918	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	3.30	0.004220	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	-0.50	-0.000639	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VH	NT	1.90	0.002430	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	0.40	0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	0.00	0.000000	±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
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	0.20	0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	2.50	0.003197	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.80	0.001023	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.20	0.001535	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-1.40	-0.001790	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	1.00	0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.40	-0.001790	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	1.10	0.001407	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-10	0.80	0.001023	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	-1.70	-0.002174	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	-2.60	-0.003325	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	-0.60	-0.000767	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	0.30	0.000384	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	0.20	0.000256	±2.5	PASS

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Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-1.50	-0.001918	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	1.10	0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	0.90	0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-0.40	-0.000512	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-1.50	-0.001918	±2.5	PASS

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