Appendix B

E-UTRA Band 14

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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
Band14	5MHz	QPSK	23305	1RB#0	23.17	23.02	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.19	23.04	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.19	23.04	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#0	22.28	22.13	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#6	22.32	22.17	34.77	PASS
Band14	5MHz	QPSK	23305	12RB#13	22.32	22.17	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.37	22.22	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.12	22.97	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.14	22.99	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.15	23	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#0	22.23	22.08	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#6	22.30	22.15	34.77	PASS
Band14	5MHz	QPSK	23330	12RB#13	22.29	22.14	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.32	22.17	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.13	22.98	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.15	23	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.10	22.95	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#6	22.23	22.08	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	22.23	22.08	34.77	PASS
Band14	5MHz	QPSK	23355	12RB#13	22.22	22.07	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.25	22.1	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.34	21.19	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.42	21.27	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.48	21.33	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#0	20.35	20.2	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#6	20.48	20.33	34.77	PASS
Band14	5MHz	64QAM	23305	12RB#13	20.44	20.29	34.77	PASS

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Band14	5MHz	64QAM	23305	25RB#0	20.39	20.24	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.30	21.15	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.45	21.3	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.40	21.25	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#13	20.39	20.24	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#6	20.37	20.22	34.77	PASS
Band14	5MHz	64QAM	23330	12RB#0	20.31	20.16	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.37	20.22	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.47	21.32	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.33	21.18	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.37	21.22	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#0	20.36	20.21	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#6	20.35	20.2	34.77	PASS
Band14	5MHz	64QAM	23355	12RB#13	20.36	20.21	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.30	20.15	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.49	22.34	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.50	22.35	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.51	22.36	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#0	21.34	21.19	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#6	21.37	21.22	34.77	PASS
Band14	5MHz	16QAM	23305	12RB#13	21.36	21.21	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.31	21.16	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.27	22.12	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.44	22.29	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.48	22.33	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#0	21.26	21.11	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#13	21.36	21.21	34.77	PASS
Band14	5MHz	16QAM	23330	12RB#6	21.40	21.25	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.28	21.13	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.28	22.13	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.42	22.27	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.28	22.13	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#13	21.31	21.16	34.77	PASS

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Band14	5MHz	16QAM	23355	12RB#6	21.29	21.14	34.77	PASS
Band14	5MHz	16QAM	23355	12RB#0	21.25	21.1	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.20	21.05	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.05	22.9	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.25	23.1	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.16	23.01	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#25	22.18	22.03	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#0	22.31	22.16	34.77	PASS
Band14	10MHz	QPSK	23330	25RB#12	22.28	22.13	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.27	22.12	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.28	21.13	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.43	21.28	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.21	21.06	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#25	20.30	20.15	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#0	20.34	20.19	34.77	PASS
Band14	10MHz	64QAM	23330	25RB#12	20.35	20.2	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.32	20.17	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.38	22.23	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.37	22.22	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.38	22.23	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#12	21.30	21.15	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#0	21.30	21.15	34.77	PASS
Band14	10MHz	16QAM	23330	25RB#25	21.16	21.01	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.27	21.12	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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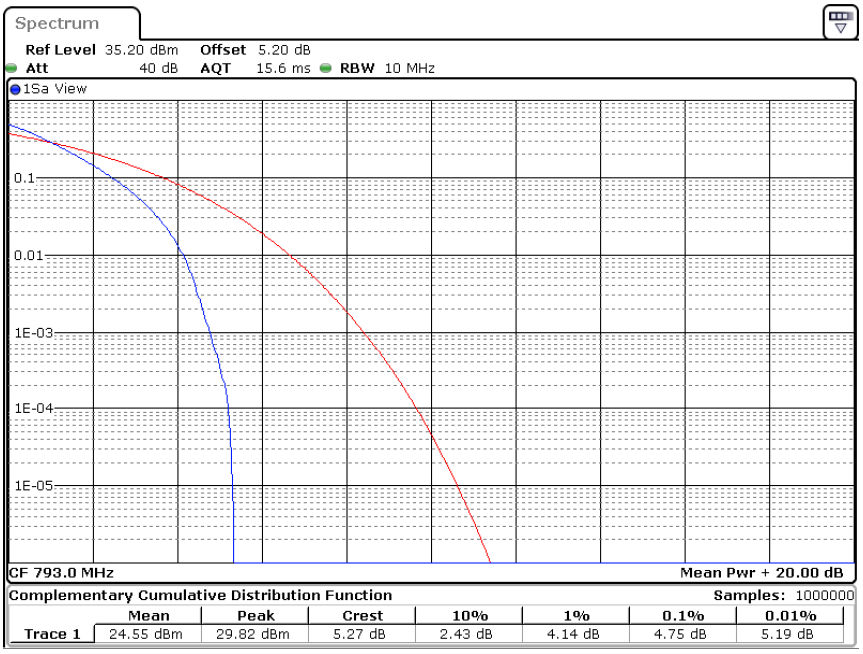
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.75	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.32	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.71	13	PASS

2.2. Test Plots

Band14-10MHz-QPSK-23330-50RB#0



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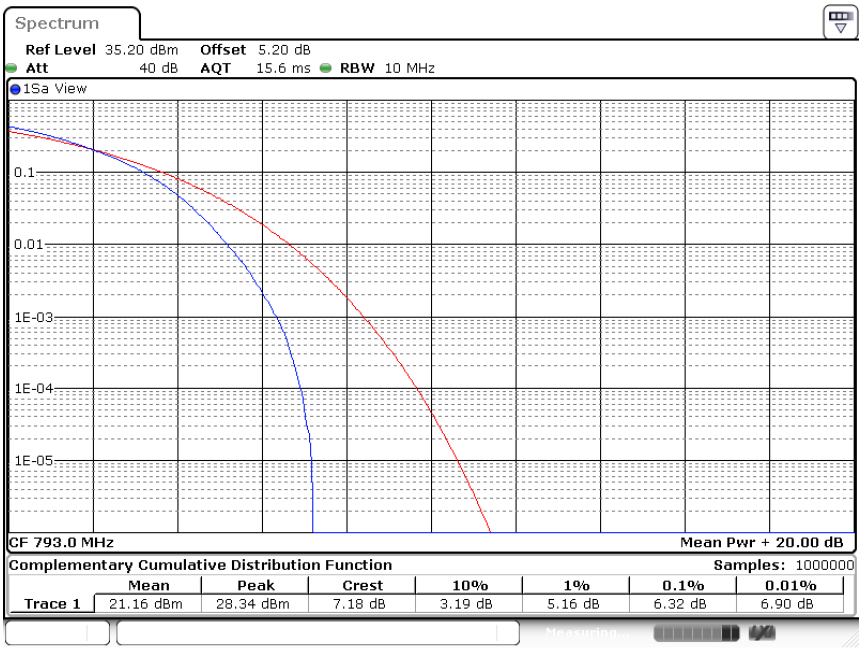
Band14-10MHz-64QAM-23330-50RB#0



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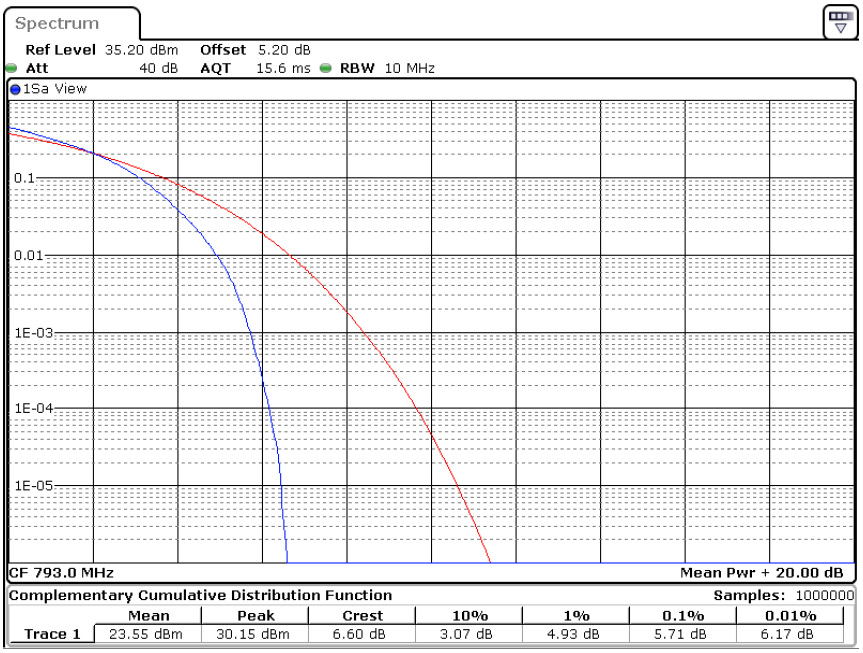

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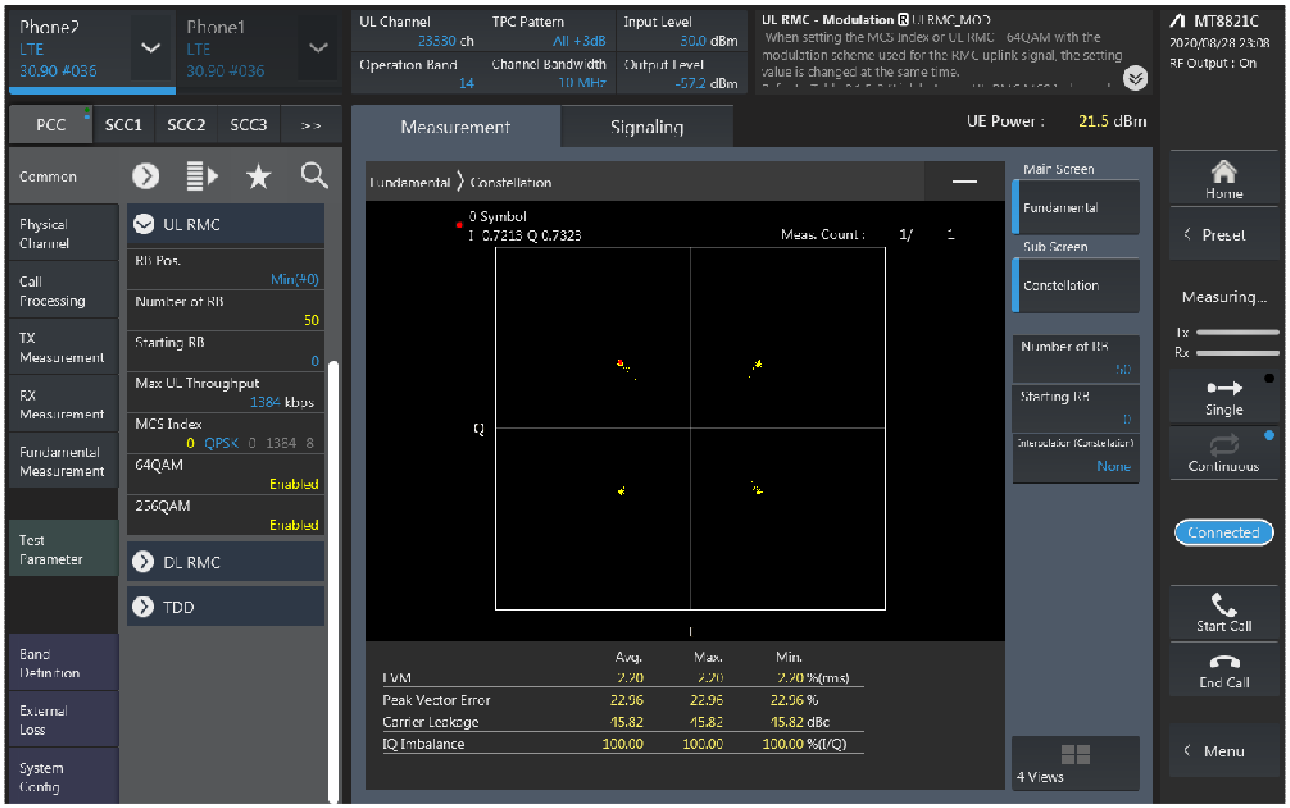
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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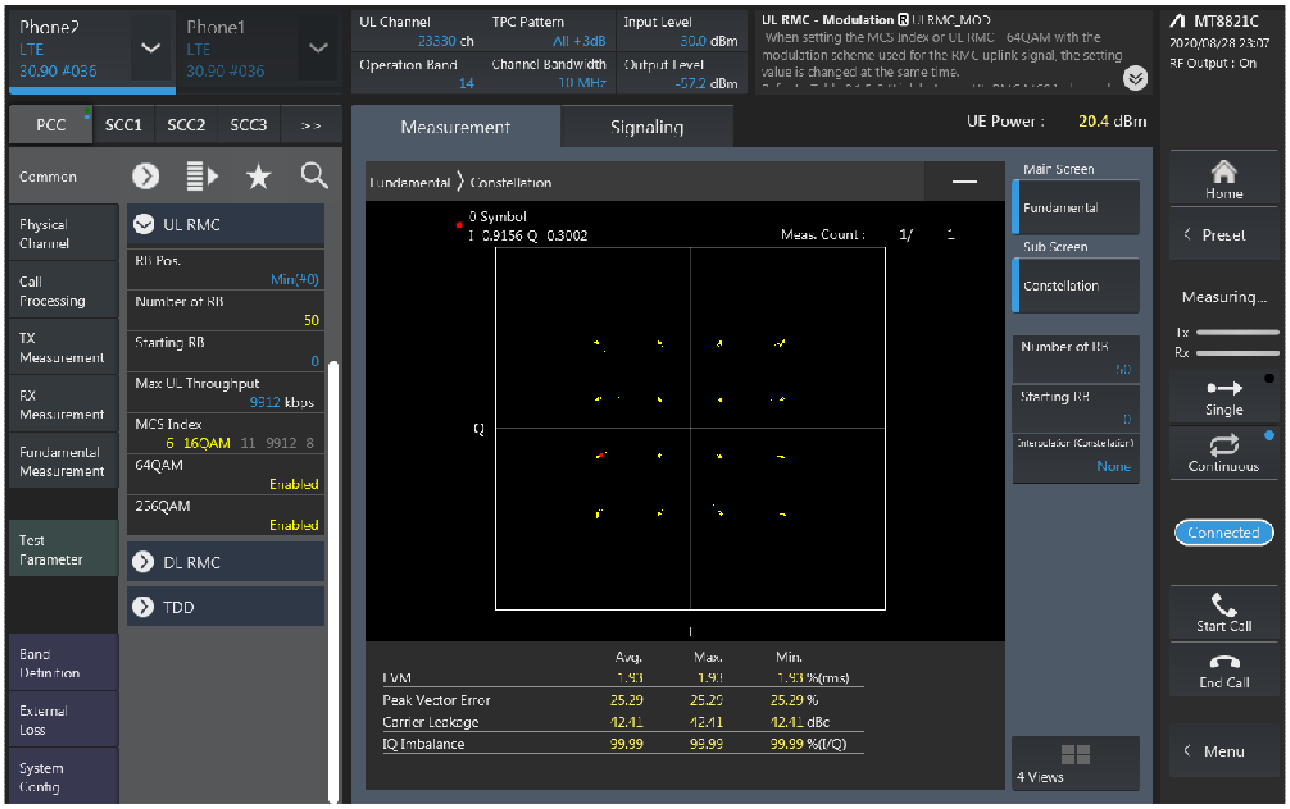
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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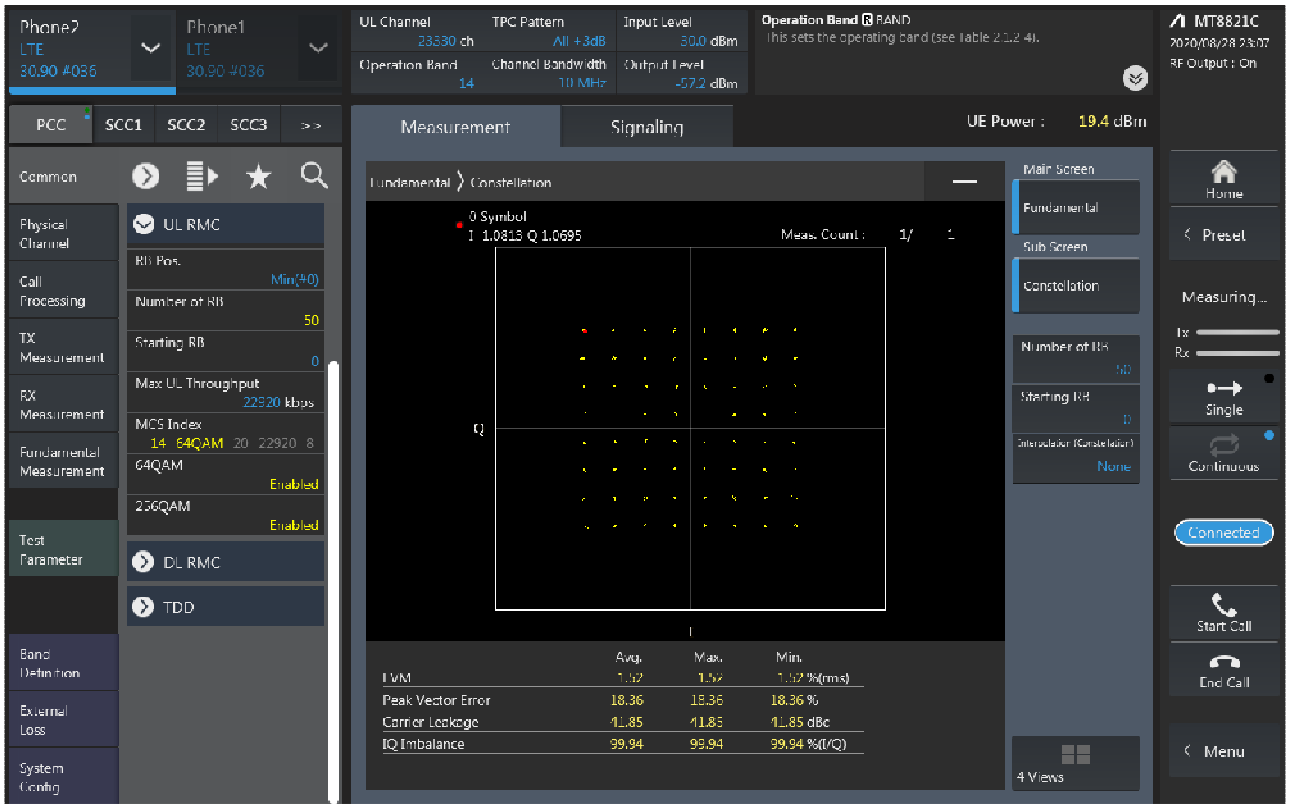
3.3. Test Mode = LTE /TM3 10MHz

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
Band14	5MHz	QPSK	23305	25RB#0	4.476	4.890	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.476	4.890	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.476	4.890	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.476	4.890	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.466	4.880	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.476	4.870	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.476	4.910	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.486	4.920	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.486	4.910	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.931	9.700	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.911	9.620	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.951	9.680	PASS

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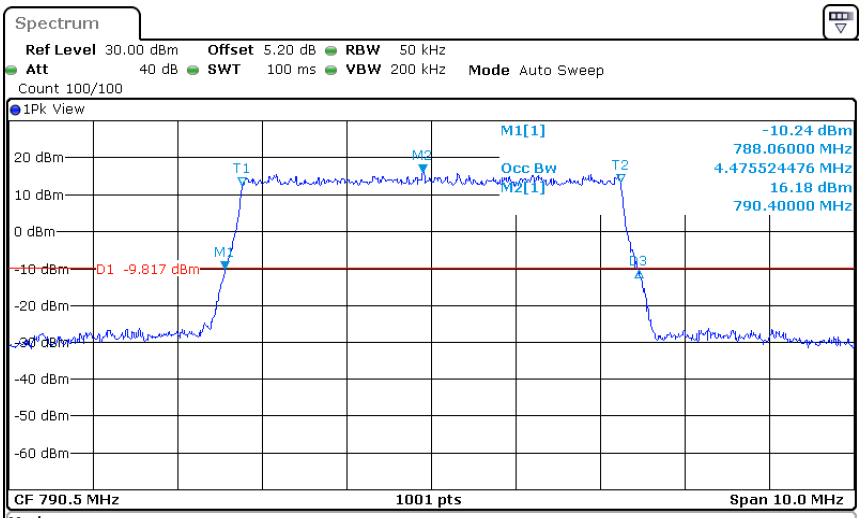
4.2. Test Plots

Band14-5MHz-QPSK-23305-25RB#0-4.476

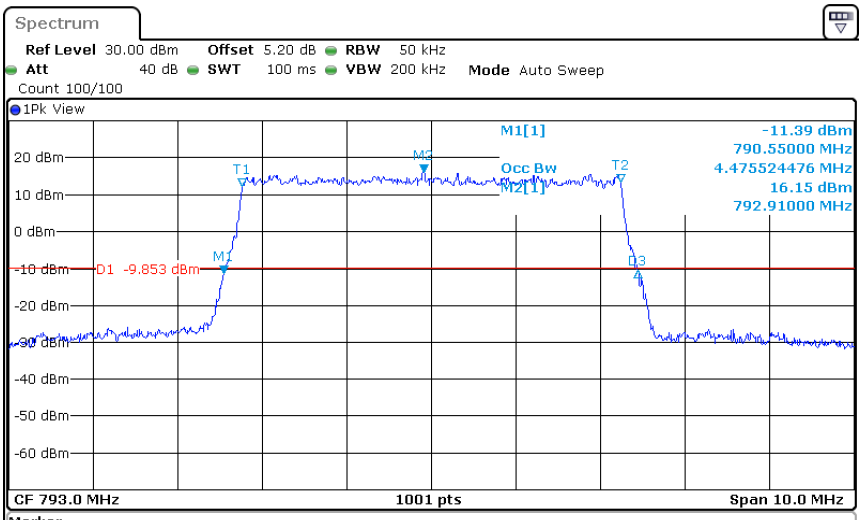


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	788.06 MHz	-10.24 dBm		
T1		1	788.26224 MHz	12.48 dBm	Occ Bw	4.475524476 MHz
T2		1	792.73776 MHz	13.43 dBm		
M2		1	790.4 MHz	16.18 dBm		
D3	M1	1	4.89 MHz	-0.31 dB		

Date: 16.JUL.2020 02:04:15

Band14-5MHz-QPSK-23330-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	790.55 MHz	-11.39 dBm		
T1		1	790.76224 MHz	12.22 dBm	Occ Bw	4.475524476 MHz
T2		1	795.23776 MHz	13.35 dBm		
M2		1	792.91 MHz	16.15 dBm		
D3	M1	1	4.89 MHz	1.01 dB		

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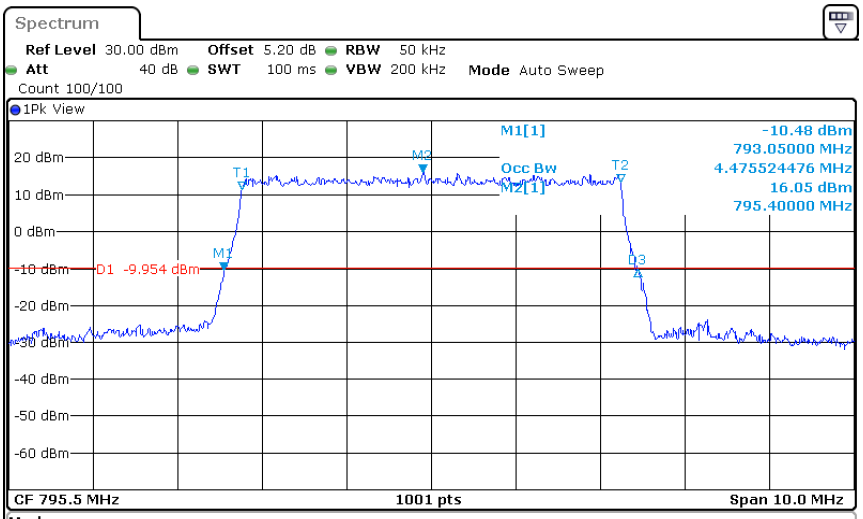
Band14-5MHz-QPSK-23355-25RB#0-4.476

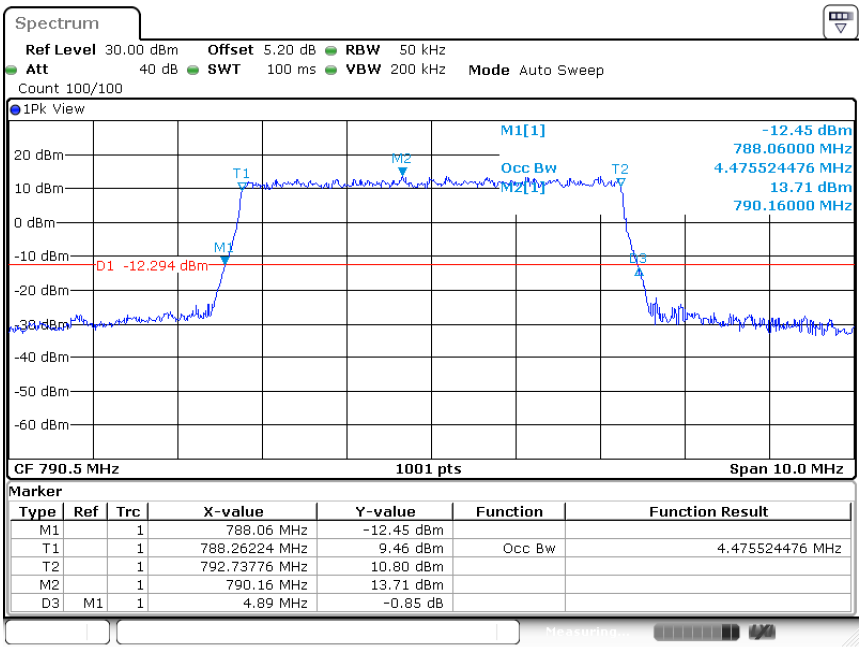


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	793.05 MHz	-10.48 dBm		
T1		1	793.26224 MHz	11.37 dBm	Occ Bw	4.475524476 MHz
T2		1	797.73776 MHz	13.49 dBm		
M2		1	795.4 MHz	16.05 dBm		
D3	M1	1	4.89 MHz	0.30 dB		

Date: 16.JUL.2020 02:05:34

Band14-5MHz-64QAM-23305-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	788.06 MHz	-12.45 dBm		
T1		1	788.26224 MHz	9.46 dBm	Occ Bw	4.475524476 MHz
T2		1	792.73776 MHz	10.80 dBm		
M2		1	790.16 MHz	13.71 dBm		
D3	M1	1	4.89 MHz	-0.85 dB		

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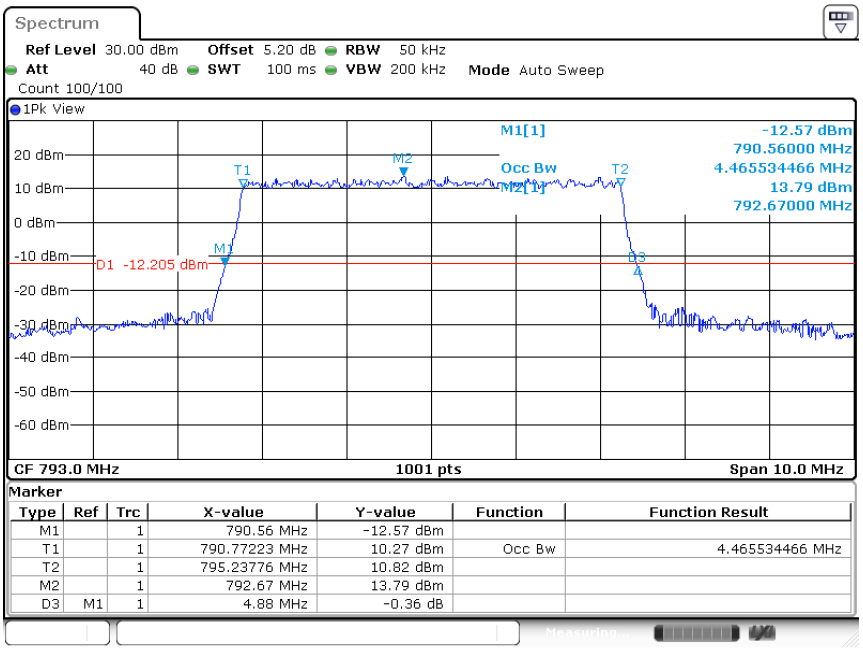
Band14-5MHz-64QAM-23330-25RB#0-4.466



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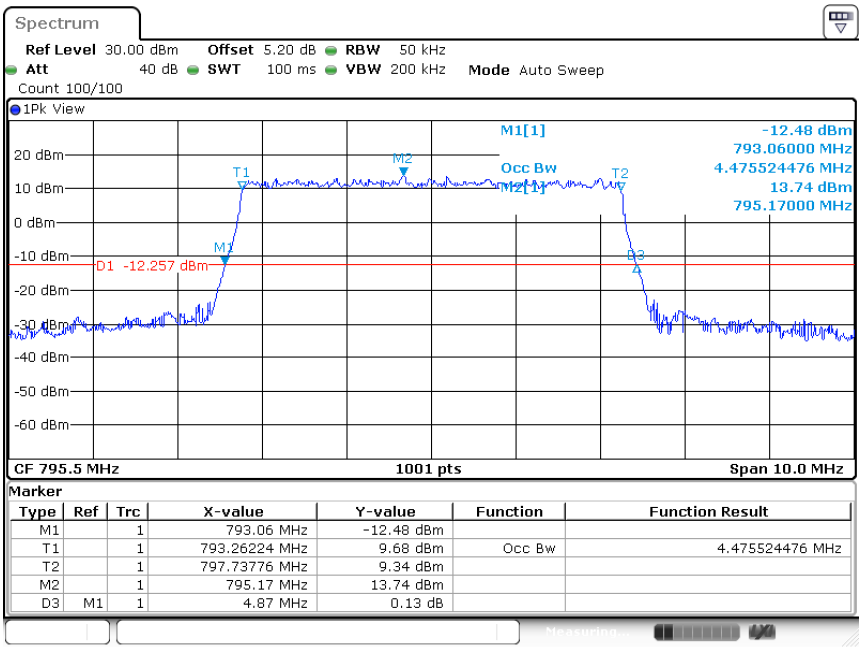
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	790.56 MHz	-12.57 dBm		
T1		1	790.77223 MHz	10.27 dBm	Occ Bw	4.465534466 MHz
T2		1	795.23776 MHz	10.82 dBm		
M2		1	792.67 MHz	13.79 dBm		
D3	M1	1	4.88 MHz	-0.36 dB		

Date: 11.AUG.2020 08:51:17

Band14-5MHz-64QAM-23355-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	793.06 MHz	-12.48 dBm		
T1		1	793.26224 MHz	9.68 dBm	Occ Bw	4.475524476 MHz
T2		1	797.73776 MHz	9.34 dBm		
M2		1	795.17 MHz	13.74 dBm		
D3	M1	1	4.87 MHz	0.13 dB		

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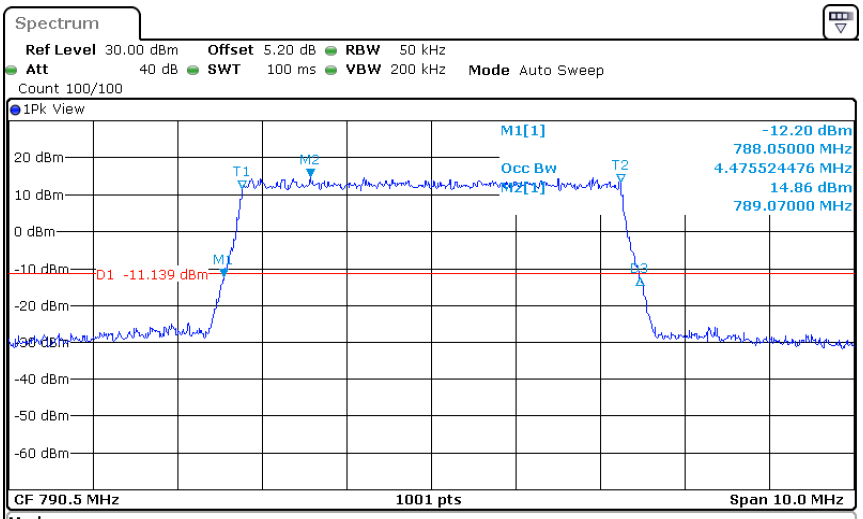

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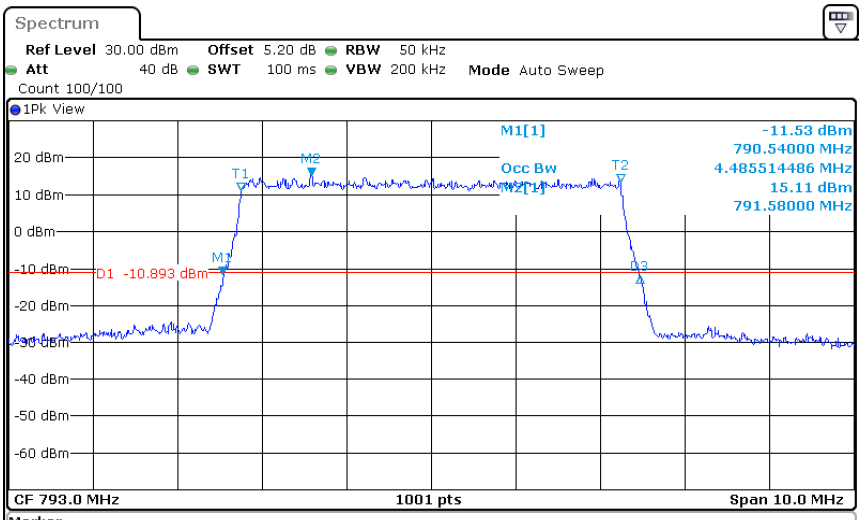
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	788.05 MHz	-12.20 dBm		
T1		1	788.26224 MHz	11.55 dBm	Occ Bw	4.475524476 MHz
T2		1	792.73776 MHz	13.57 dBm		
M2		1	789.07 MHz	14.86 dBm		
D3	M1	1	4.91 MHz	-0.10 dB		

Date: 16.JUL.2020 02:04:35

Band14-5MHz-16QAM-23330-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	790.54 MHz	-11.53 dBm		
T1		1	790.75225 MHz	11.00 dBm	Occ Bw	4.485514486 MHz
T2		1	795.23776 MHz	13.43 dBm		
M2		1	791.58 MHz	15.11 dBm		
D3	M1	1	4.92 MHz	-0.22 dB		

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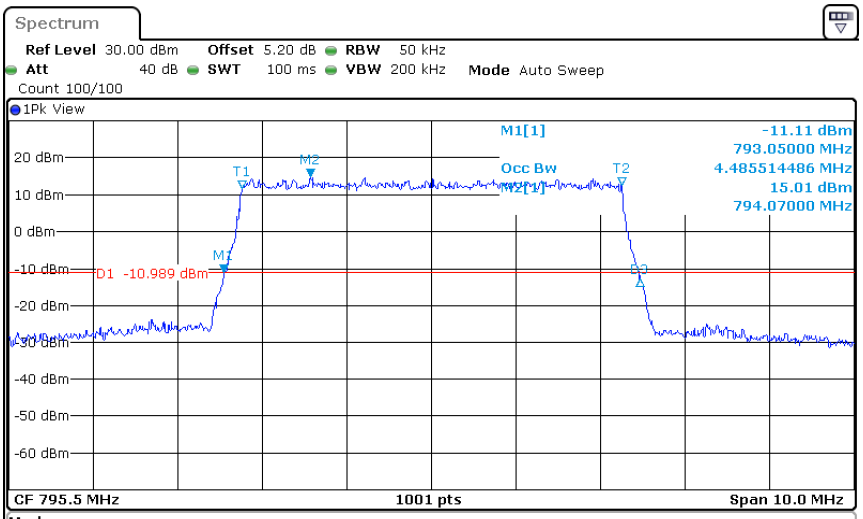
Band14-5MHz-16QAM-23355-25RB#0-4.486

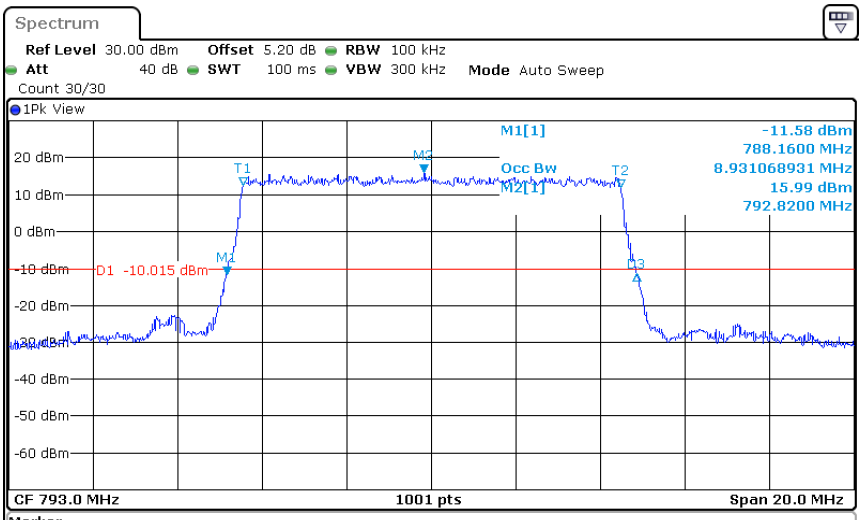


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	793.05 MHz	-11.11 dBm		
T1		1	793.26224 MHz	11.61 dBm	Occ Bw	4.485514486 MHz
T2		1	797.74775 MHz	12.61 dBm		
M2		1	794.07 MHz	15.01 dBm		
D3	M1	1	4.91 MHz	-1.61 dB		

Date: 16.JUL.2020 02:05:54

Band14-10MHz-QPSK-23330-50RB#0-8.931



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	788.16 MHz	-11.58 dBm		
T1		1	788.5445 MHz	12.48 dBm	Occ Bw	8.931068931 MHz
T2		1	797.4755 MHz	12.10 dBm		
M2		1	792.82 MHz	15.99 dBm		
D3	M1	1	9.7 MHz	0.42 dB		

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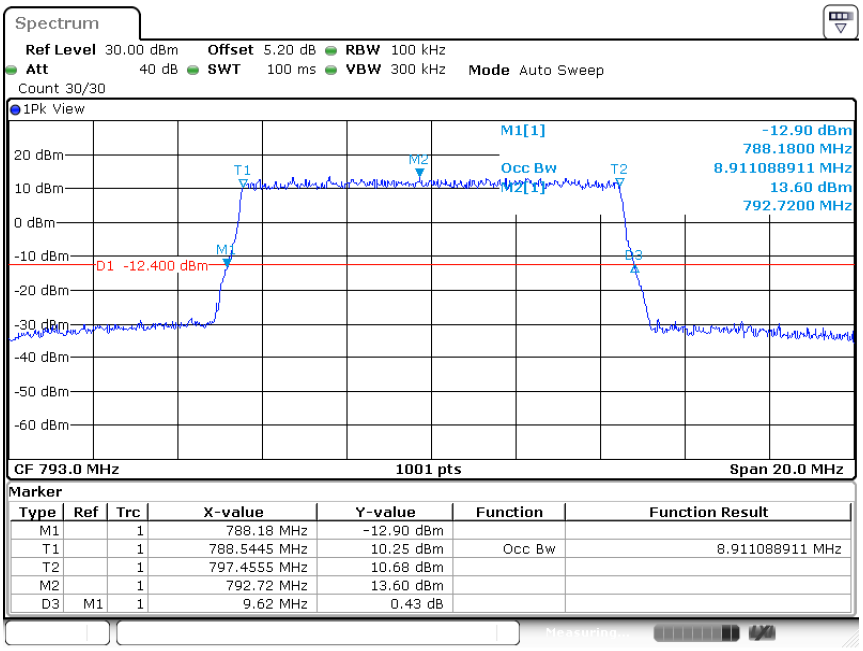
Band14-10MHz-64QAM-23330-50RB#0-8.911



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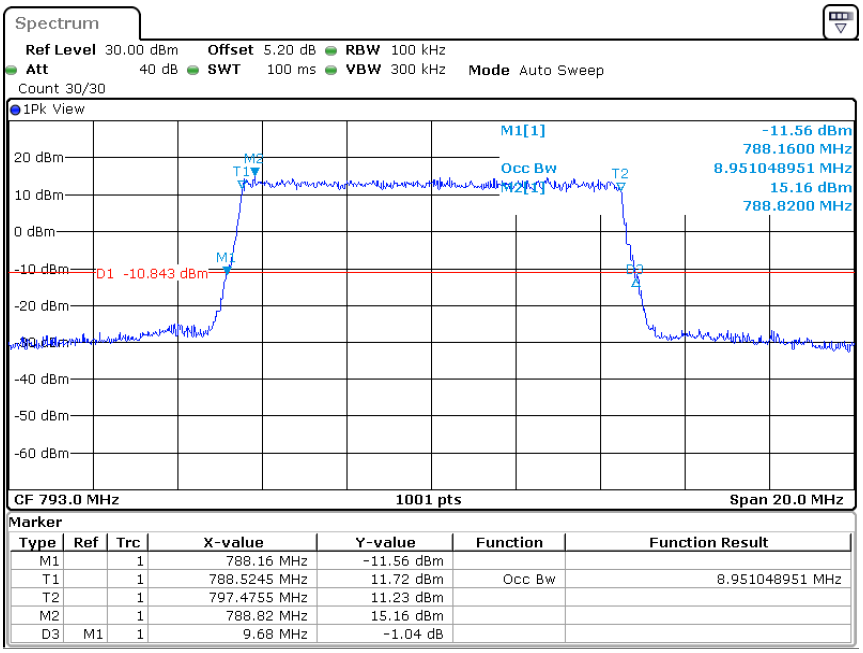
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	788.18 MHz	-12.90 dBm		
T1		1	788.5445 MHz	10.25 dBm	Occ Bw	8.911088911 MHz
T2		1	797.4555 MHz	10.68 dBm		
M2		1	792.72 MHz	13.60 dBm		
D3	M1	1	9.62 MHz	0.43 dB		

Date: 11.AUG.2020 08:51:56

Band14-10MHz-16QAM-23330-50RB#0-8.951



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	788.16 MHz	-11.56 dBm		
T1		1	788.5245 MHz	11.72 dBm	Occ Bw	8.951048951 MHz
T2		1	797.4755 MHz	11.23 dBm		
M2		1	788.82 MHz	15.16 dBm		
D3	M1	1	9.68 MHz	-1.04 dB		

Date: 16.JUL.2020 02:06:23

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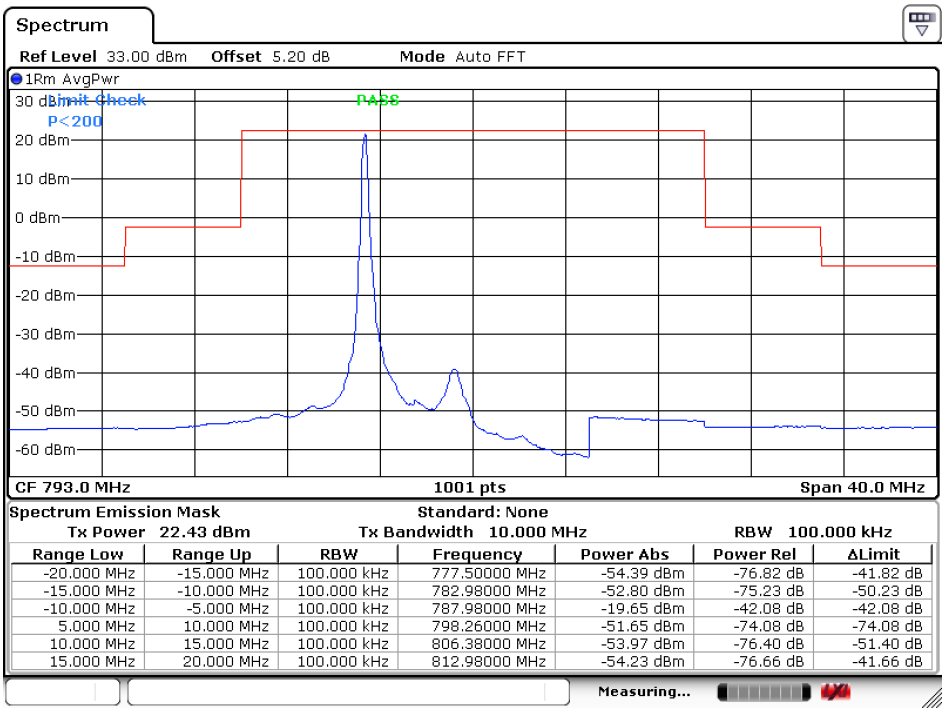
5. Emission Mask

5.1. Test Plots

BAND 14_5MHz_QPSK_23305_1RB#0



Spectrum Emission Mask — Standard: None

Tx Power 22.43 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.50000 MHz	-54.39 dBm	-76.82 dB	-41.82 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-52.80 dBm	-75.23 dB	-50.23 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-19.65 dBm	-42.08 dB	-42.08 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.26000 MHz	-51.65 dBm	-74.08 dB	-74.08 dB
10.000 MHz	15.000 MHz	100.000 kHz	806.38000 MHz	-53.97 dBm	-76.40 dB	-51.40 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.98000 MHz	-54.23 dBm	-76.66 dB	-41.66 dB

Date: 8.SEP.2020 18:43:32

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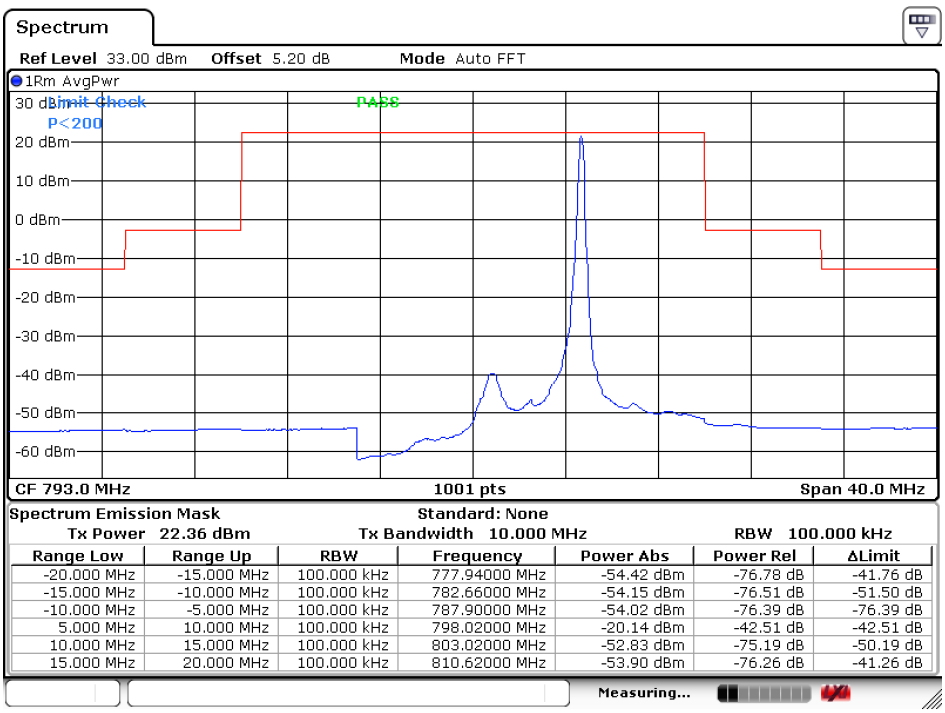
BAND 14_5MHz_QPSK_23355_1RB#24



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.94000 MHz	-54.42 dBm	-76.78 dB	-41.76 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.66000 MHz	-54.15 dBm	-76.51 dB	-51.50 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.90000 MHz	-54.02 dBm	-76.39 dB	-76.39 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-20.14 dBm	-42.51 dB	-42.51 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.02000 MHz	-52.83 dBm	-75.19 dB	-50.19 dB
15.000 MHz	20.000 MHz	100.000 kHz	810.62000 MHz	-53.90 dBm	-76.26 dB	-41.26 dB

Date: 8.SEP.2020 18:45:37

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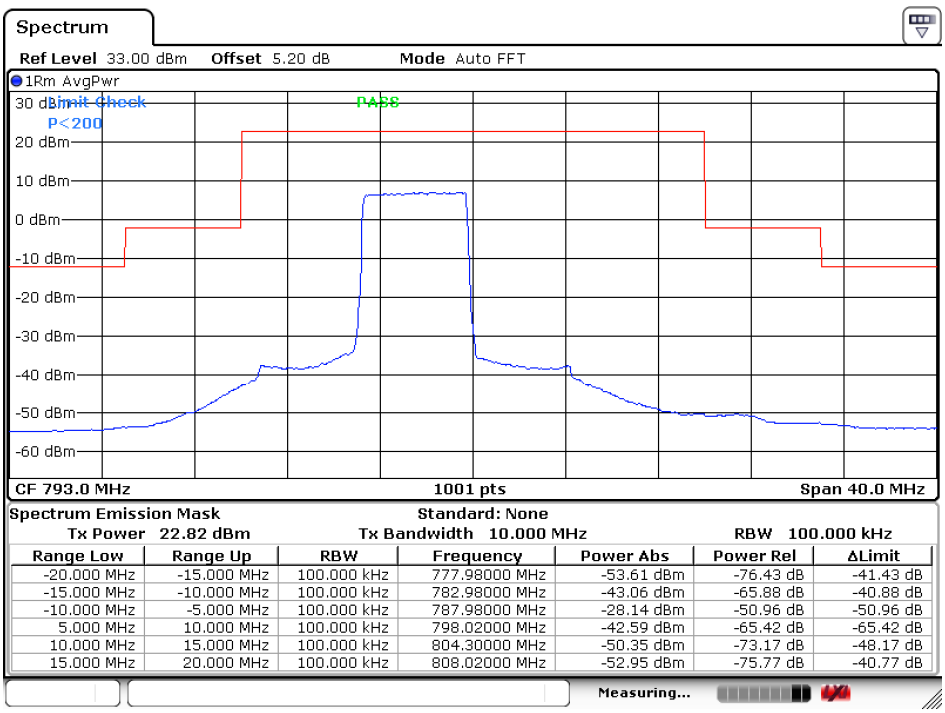
BAND 14_5MHz_QPSK_23355_25RB#0



Spectrum Emission Mask Standard: None
Tx Power 22.82 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.98000 MHz	-53.61 dBm	-76.43 dB	-41.43 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-43.06 dBm	-65.88 dB	-40.88 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-28.14 dBm	-50.96 dB	-50.96 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-42.59 dBm	-65.42 dB	-65.42 dB
10.000 MHz	15.000 MHz	100.000 kHz	804.30000 MHz	-50.35 dBm	-73.17 dB	-48.17 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.02000 MHz	-52.95 dBm	-75.77 dB	-40.77 dB

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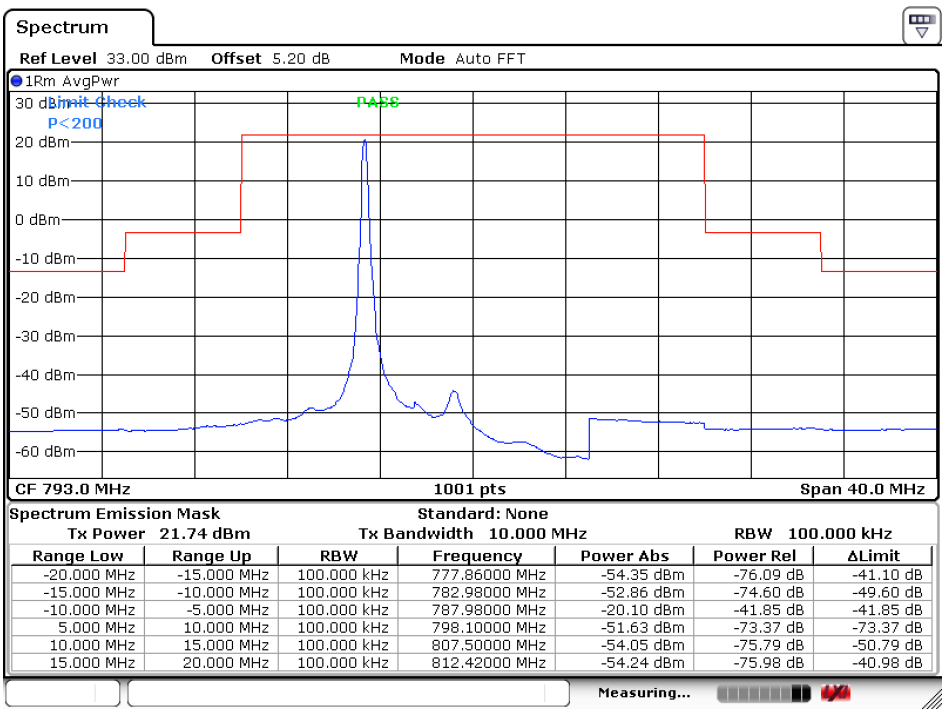
BAND 14_5MHz_16QAM_23305_1RB#0



Spectrum Emission Mask Standard: None

Tx Power 21.74 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.86000 MHz	-54.35 dBm	-76.09 dB	-41.10 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-52.86 dBm	-74.60 dB	-49.60 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-20.10 dBm	-41.85 dB	-41.85 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.10000 MHz	-51.63 dBm	-73.37 dB	-73.37 dB
10.000 MHz	15.000 MHz	100.000 kHz	807.50000 MHz	-54.05 dBm	-75.79 dB	-50.79 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.42000 MHz	-54.24 dBm	-75.98 dB	-40.98 dB

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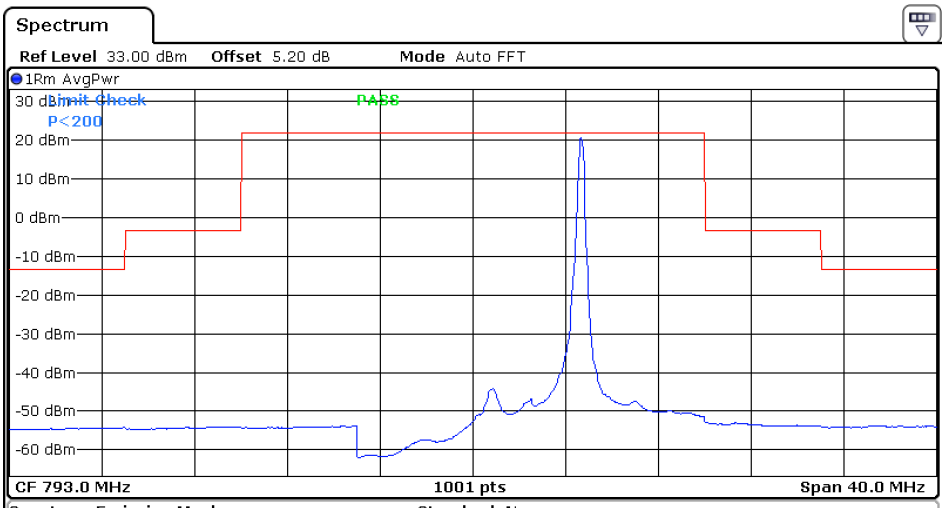
BAND 14_5MHz_16QAM_23355_1RB#24



Spectrum Emission Mask Standard: None
Tx Power 21.76 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.98000 MHz	-54.39 dBm	-76.15 dB	-41.15 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.90000 MHz	-54.14 dBm	-75.90 dB	-50.90 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-53.90 dBm	-75.66 dB	-75.66 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-21.25 dBm	-43.01 dB	-43.01 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.02000 MHz	-52.97 dBm	-74.73 dB	-49.73 dB
15.000 MHz	20.000 MHz	100.000 kHz	810.38000 MHz	-53.97 dBm	-75.73 dB	-40.73 dB

Measuring...

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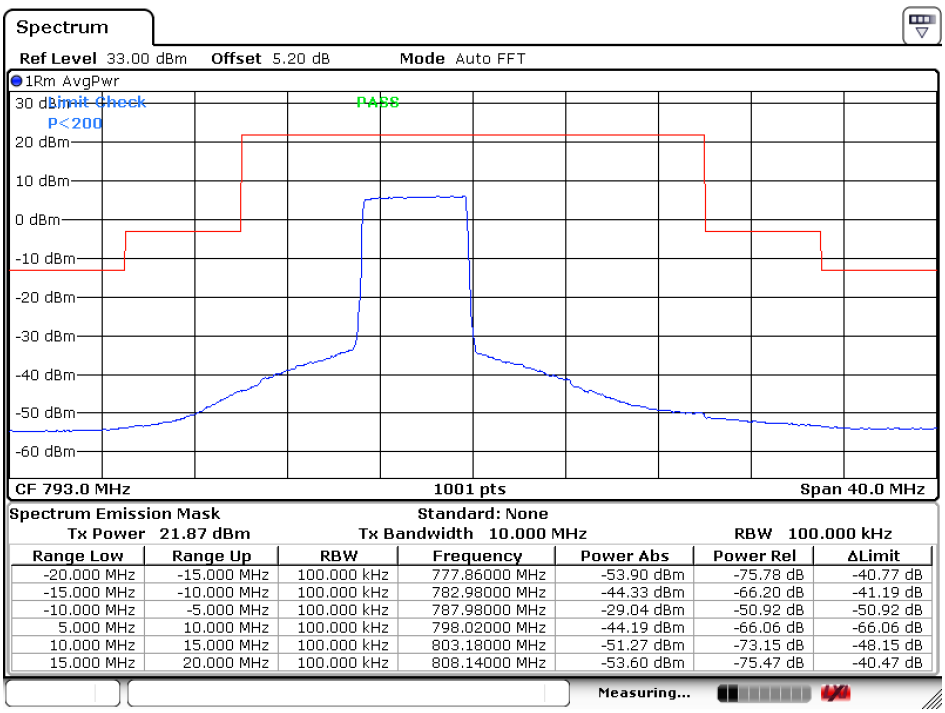

Spectrum Emission Mask Standard: None
Tx Power 21.87 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.86000 MHz	-53.90 dBm	-75.78 dB	-40.77 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-44.33 dBm	-66.20 dB	-41.19 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-29.04 dBm	-50.92 dB	-50.92 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-44.19 dBm	-66.06 dB	-66.06 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.18000 MHz	-51.27 dBm	-73.15 dB	-48.15 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.14000 MHz	-53.60 dBm	-75.47 dB	-40.47 dB

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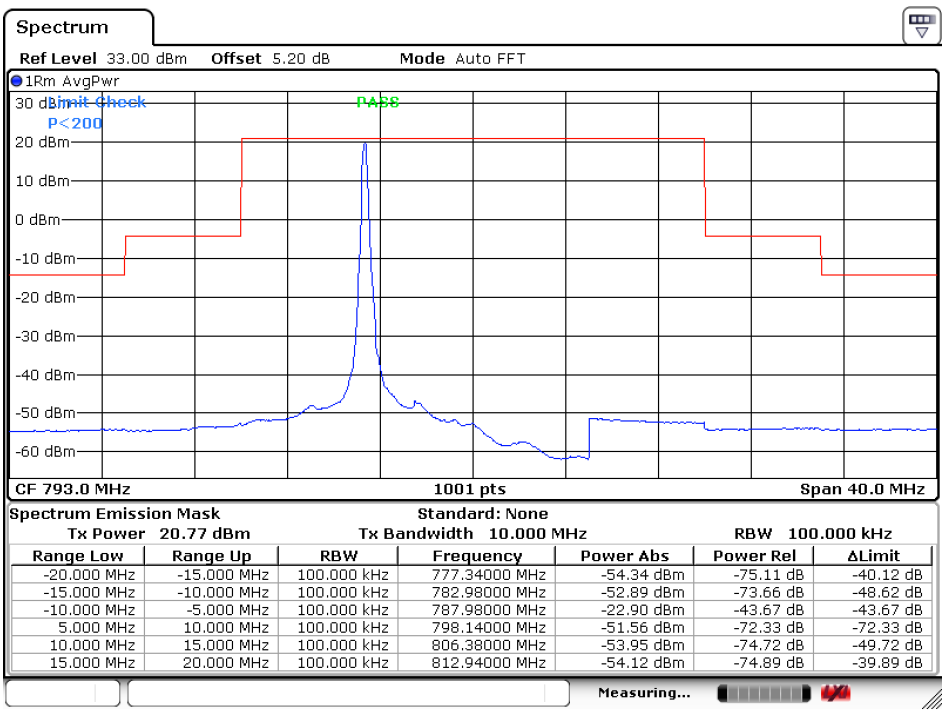

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.34000 MHz	-54.34 dBm	-75.11 dB	-40.12 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-52.89 dBm	-73.66 dB	-48.62 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-22.90 dBm	-43.67 dB	-43.67 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.14000 MHz	-51.56 dBm	-72.33 dB	-72.33 dB
10.000 MHz	15.000 MHz	100.000 kHz	806.38000 MHz	-53.95 dBm	-74.72 dB	-49.72 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.94000 MHz	-54.12 dBm	-74.89 dB	-39.89 dB

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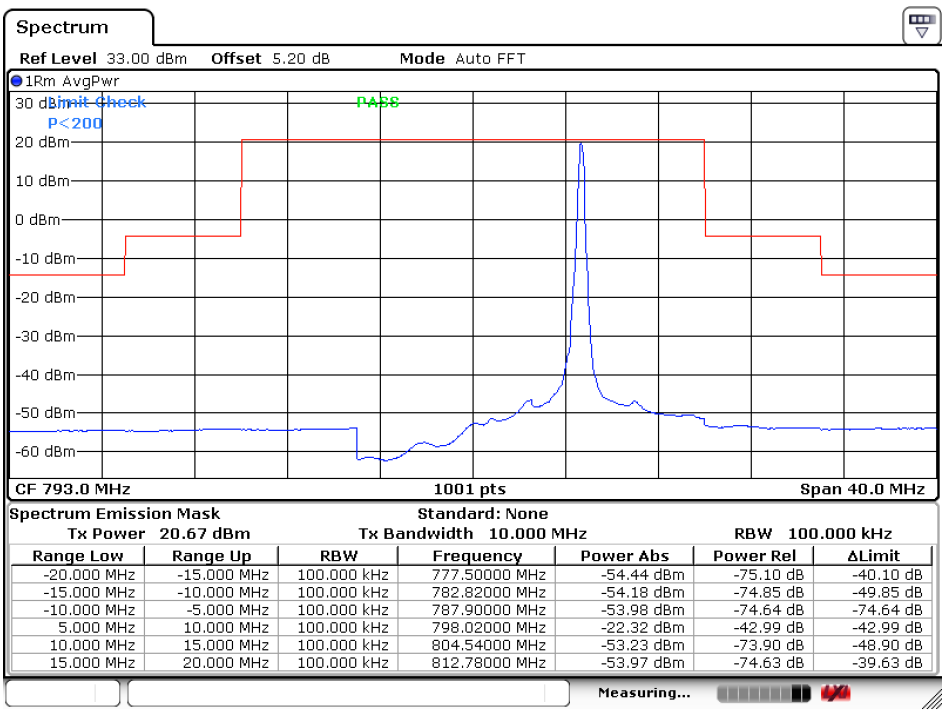

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.50000 MHz	-54.44 dBm	-75.10 dB	-40.10 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.82000 MHz	-54.18 dBm	-74.85 dB	-49.85 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.90000 MHz	-53.98 dBm	-74.64 dB	-74.64 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-22.32 dBm	-42.99 dB	-42.99 dB
10.000 MHz	15.000 MHz	100.000 kHz	804.54000 MHz	-53.23 dBm	-73.90 dB	-48.90 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.78000 MHz	-53.97 dBm	-74.63 dB	-39.63 dB

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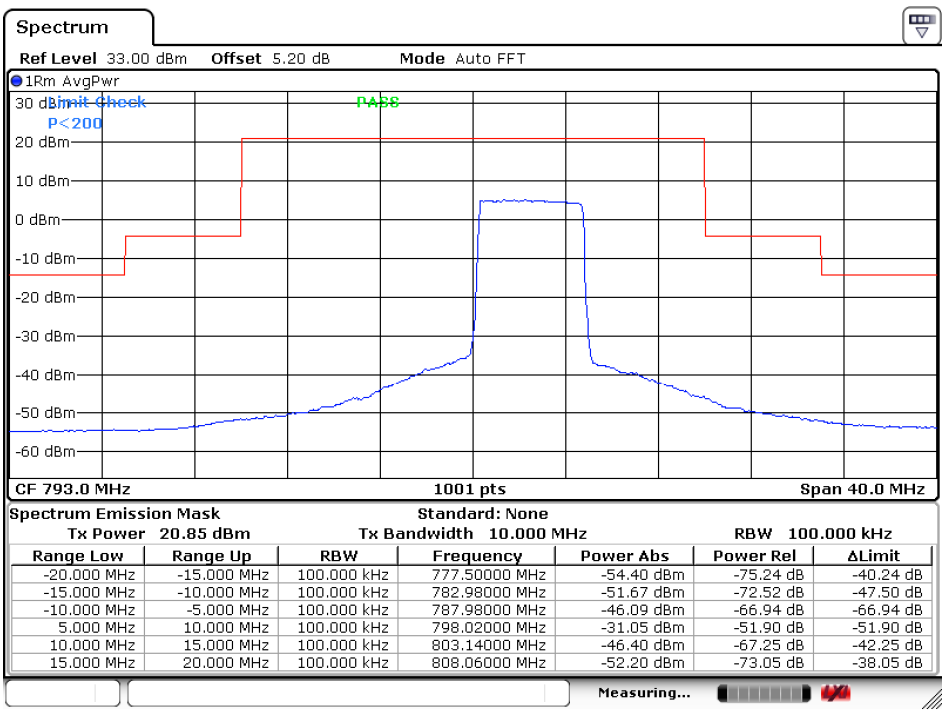

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.50000 MHz	-54.40 dBm	-75.24 dB	-40.24 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-51.67 dBm	-72.52 dB	-47.50 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-46.09 dBm	-66.94 dB	-66.94 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-31.05 dBm	-51.90 dB	-51.90 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.14000 MHz	-46.40 dBm	-67.25 dB	-42.25 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.06000 MHz	-52.20 dBm	-73.05 dB	-38.05 dB

Date: 8.SEP.2020 18:46:34

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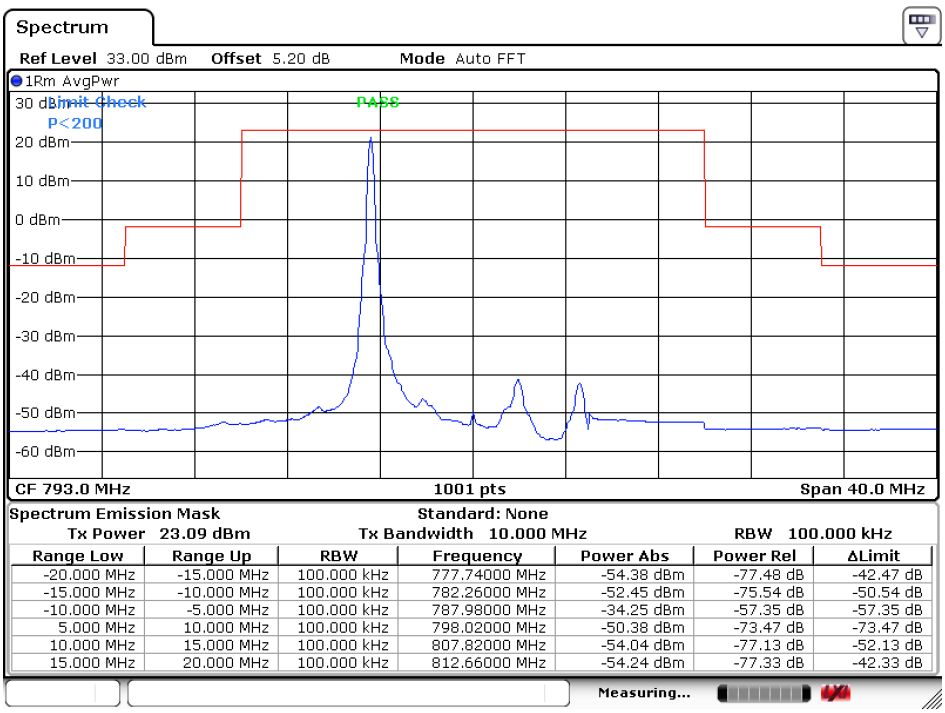

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.74000 MHz	-54.38 dBm	-77.48 dB	-42.47 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.26000 MHz	-52.45 dBm	-75.54 dB	-50.54 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-34.25 dBm	-57.35 dB	-57.35 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-50.38 dBm	-73.47 dB	-73.47 dB
10.000 MHz	15.000 MHz	100.000 kHz	807.82000 MHz	-54.04 dBm	-77.13 dB	-52.13 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.66000 MHz	-54.24 dBm	-77.33 dB	-42.33 dB

Date: 8.SEP.2020 18:38:03

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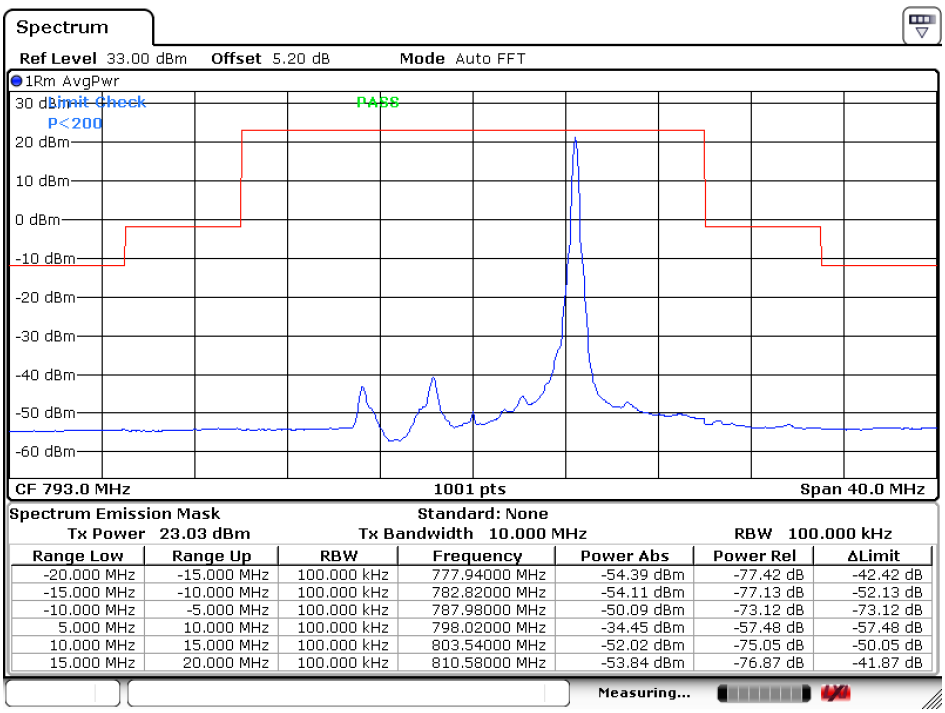
BAND 14_10MHz_QPSK_23330_1RB#49



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.94000 MHz	-54.39 dBm	-77.42 dB	-42.42 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.82000 MHz	-54.11 dBm	-77.13 dB	-52.13 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-50.09 dBm	-73.12 dB	-73.12 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-34.45 dBm	-57.48 dB	-57.48 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.54000 MHz	-52.02 dBm	-75.05 dB	-50.05 dB
15.000 MHz	20.000 MHz	100.000 kHz	810.58000 MHz	-53.84 dBm	-76.87 dB	-41.87 dB

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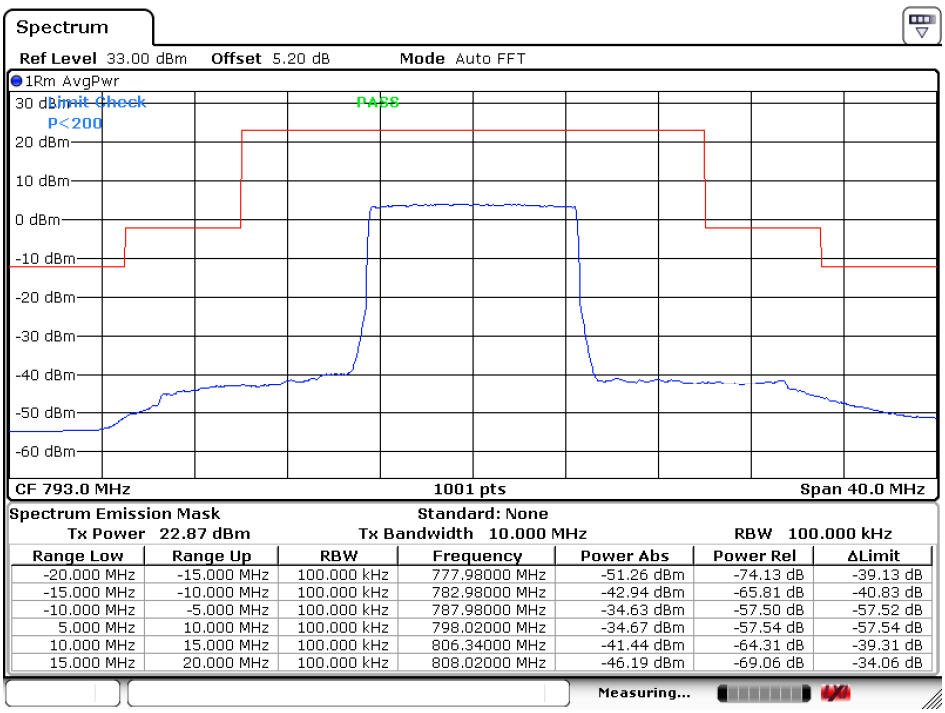

Spectrum Emission Mask Standard: None

Tx Power 22.87 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.98000 MHz	-51.26 dBm	-74.13 dB	-39.13 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-42.94 dBm	-65.81 dB	-40.83 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-34.63 dBm	-57.50 dB	-57.52 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-34.67 dBm	-57.54 dB	-57.54 dB
10.000 MHz	15.000 MHz	100.000 kHz	806.34000 MHz	-41.44 dBm	-64.31 dB	-39.31 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.02000 MHz	-46.19 dBm	-69.06 dB	-34.06 dB

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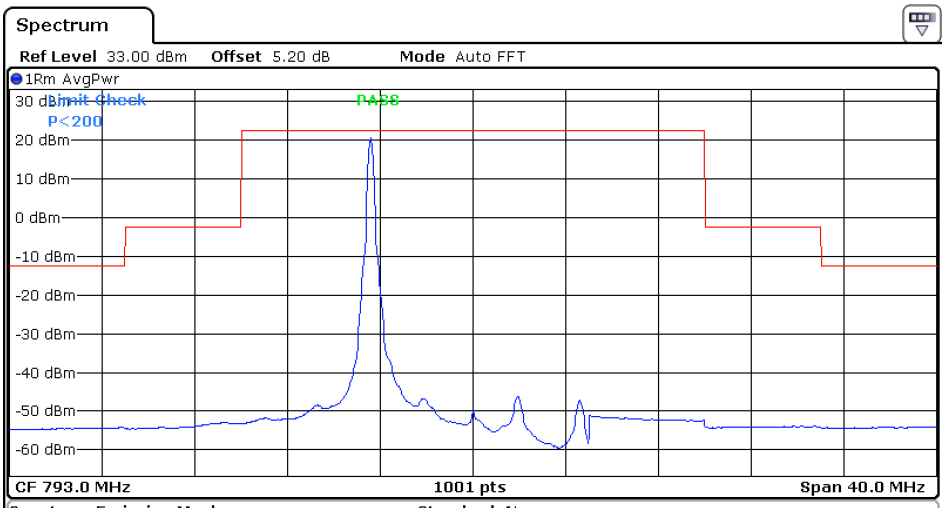
BAND 14_10MHz_16QAM_23330_1RB#0



Spectrum Emission Mask Standard: None
Tx Power 22.43 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.90000 MHz	-54.32 dBm	-76.74 dB	-41.74 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.22000 MHz	-52.92 dBm	-75.35 dB	-50.35 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-34.56 dBm	-56.99 dB	-56.99 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-51.13 dBm	-73.55 dB	-73.55 dB
10.000 MHz	15.000 MHz	100.000 kHz	807.14000 MHz	-54.04 dBm	-76.46 dB	-51.46 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.98000 MHz	-54.18 dBm	-76.60 dB	-41.60 dB

Measuring...

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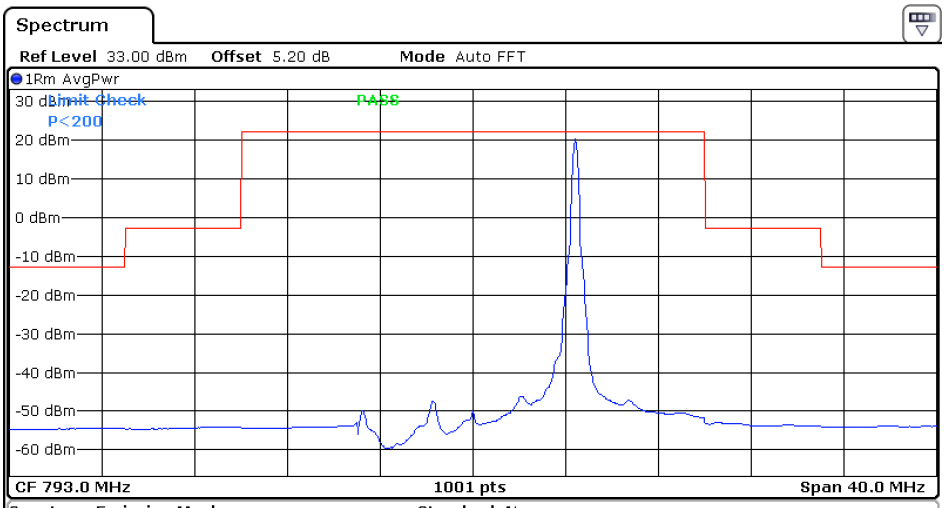

Spectrum Emission Mask Standard: None
Tx Power 22.16 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.90000 MHz	-54.44 dBm	-76.60 dB	-41.59 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.94000 MHz	-54.18 dBm	-76.34 dB	-51.34 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-52.92 dBm	-75.08 dB	-75.08 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-35.77 dBm	-57.93 dB	-57.93 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.58000 MHz	-52.93 dBm	-75.09 dB	-50.09 dB
15.000 MHz	20.000 MHz	100.000 kHz	810.66000 MHz	-53.98 dBm	-76.14 dB	-41.14 dB

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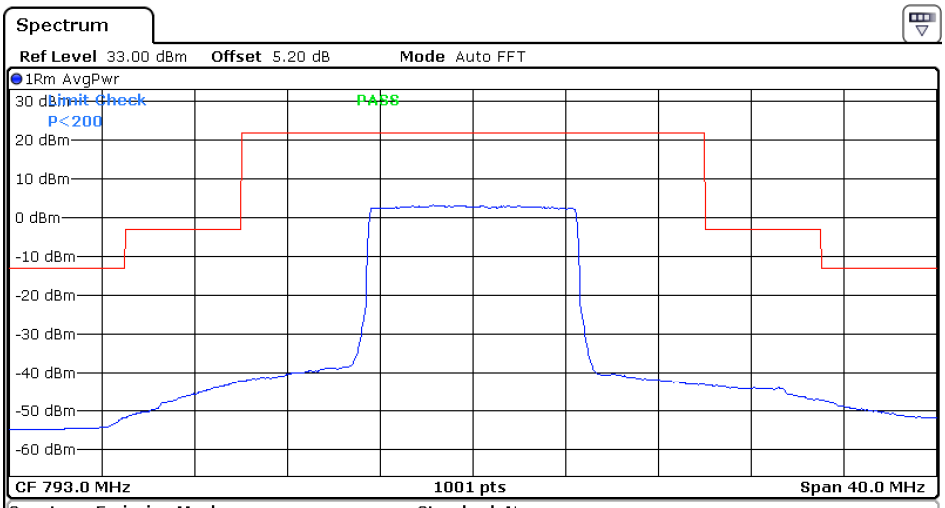

Spectrum Emission Mask Standard: None

Tx Power 21.93 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.98000 MHz	-51.74 dBm	-73.67 dB	-38.66 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-42.14 dBm	-64.06 dB	-39.06 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-35.09 dBm	-57.02 dB	-57.02 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-35.70 dBm	-57.63 dB	-57.63 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.50000 MHz	-43.39 dBm	-65.32 dB	-40.32 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.02000 MHz	-47.37 dBm	-69.30 dB	-34.30 dB

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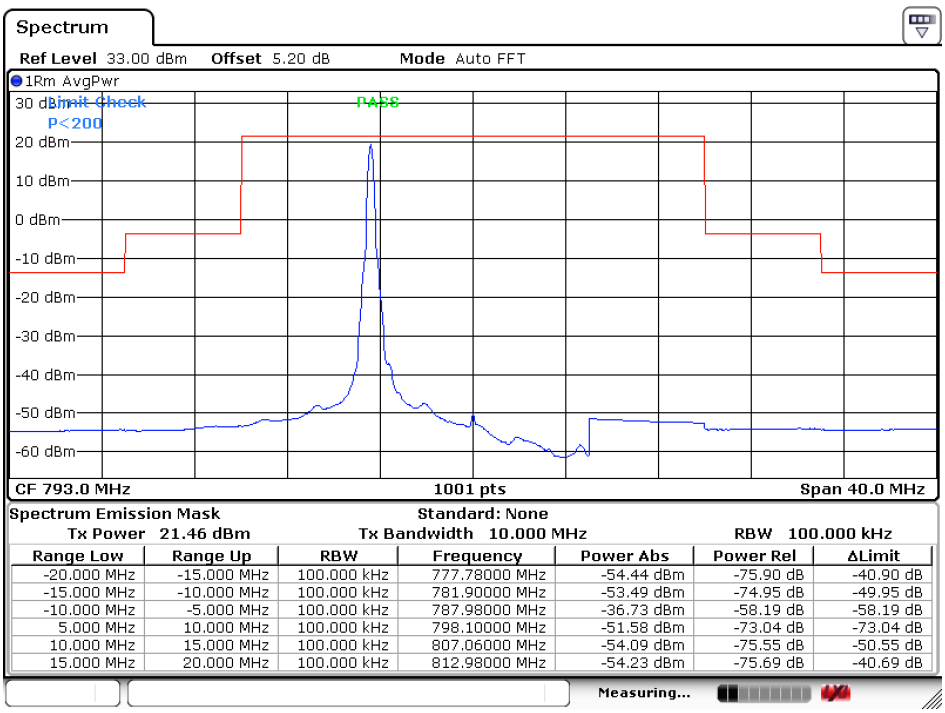

Spectrum Emission Mask Standard: None

Tx Power 21.46 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.78000 MHz	-54.44 dBm	-75.90 dB	-40.90 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	781.90000 MHz	-53.49 dBm	-74.95 dB	-49.95 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-36.73 dBm	-58.19 dB	-58.19 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.10000 MHz	-51.58 dBm	-73.04 dB	-73.04 dB
10.000 MHz	15.000 MHz	100.000 kHz	807.06000 MHz	-54.09 dBm	-75.55 dB	-50.55 dB
15.000 MHz	20.000 MHz	100.000 kHz	812.98000 MHz	-54.23 dBm	-75.69 dB	-40.69 dB

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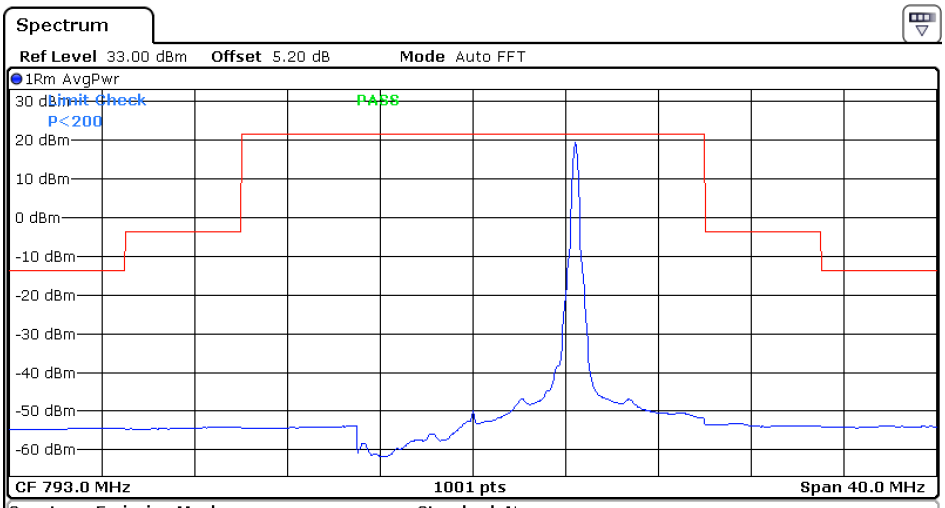

Spectrum Emission Mask Standard: None
Tx Power 21.35 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.94000 MHz	-54.44 dBm	-75.79 dB	-40.79 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.82000 MHz	-54.18 dBm	-75.53 dB	-50.53 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-53.88 dBm	-75.23 dB	-75.23 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-37.47 dBm	-58.82 dB	-58.82 dB
10.000 MHz	15.000 MHz	100.000 kHz	804.26000 MHz	-53.29 dBm	-74.64 dB	-49.64 dB
15.000 MHz	20.000 MHz	100.000 kHz	810.66000 MHz	-54.04 dBm	-75.38 dB	-40.38 dB

Measuring...

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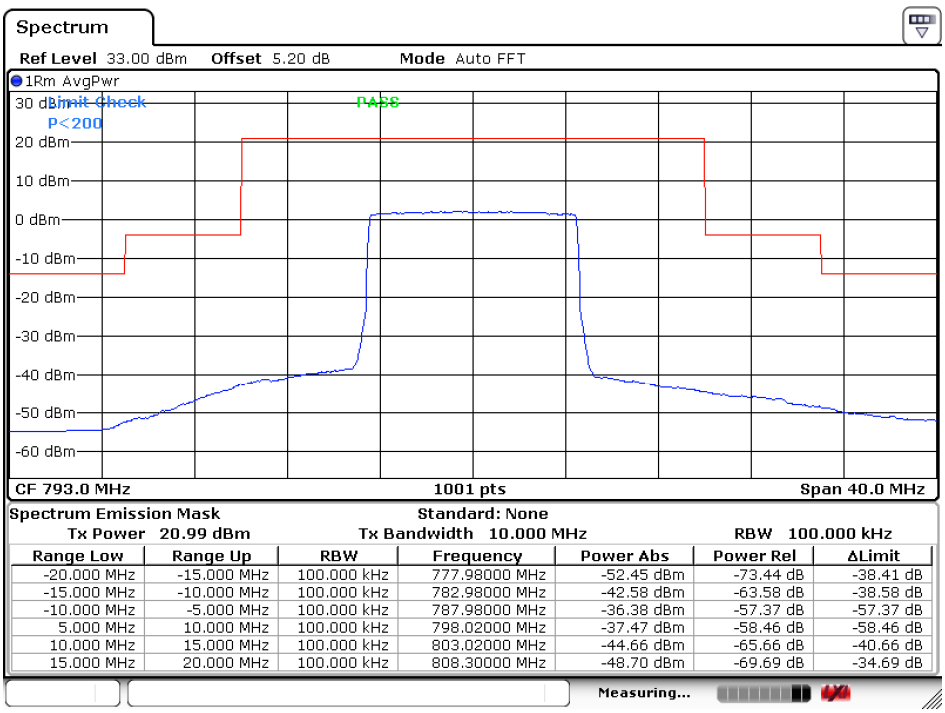

Spectrum Emission Mask Standard: None

Tx Power 20.99 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-20.000 MHz	-15.000 MHz	100.000 kHz	777.98000 MHz	-52.45 dBm	-73.44 dB	-38.41 dB
-15.000 MHz	-10.000 MHz	100.000 kHz	782.98000 MHz	-42.58 dBm	-63.58 dB	-38.58 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.98000 MHz	-36.38 dBm	-57.37 dB	-57.37 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.02000 MHz	-37.47 dBm	-58.46 dB	-58.46 dB
10.000 MHz	15.000 MHz	100.000 kHz	803.02000 MHz	-44.66 dBm	-65.66 dB	-40.66 dB
15.000 MHz	20.000 MHz	100.000 kHz	808.30000 MHz	-48.70 dBm	-69.69 dB	-34.69 dB

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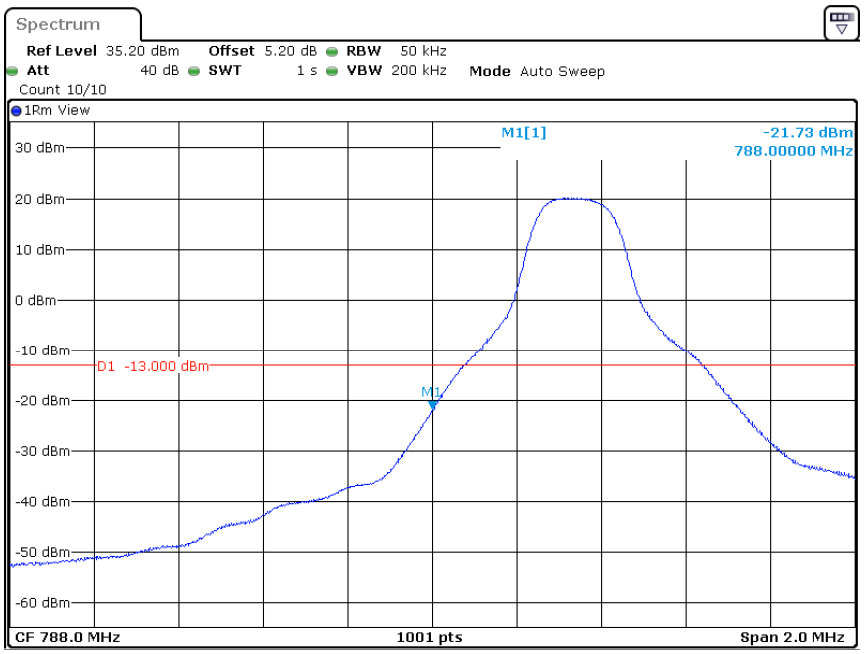
6. Band Edge Compliance

6.1. Test Plots

Band14-5MHz-QPSK-23305-1RB#0


Date: 16.JUL.2020 02:06:49

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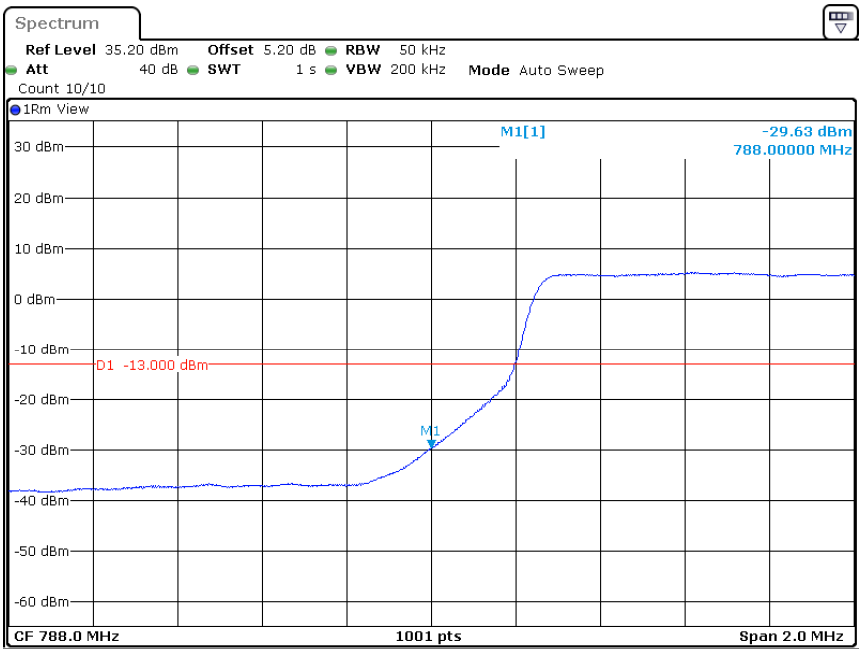

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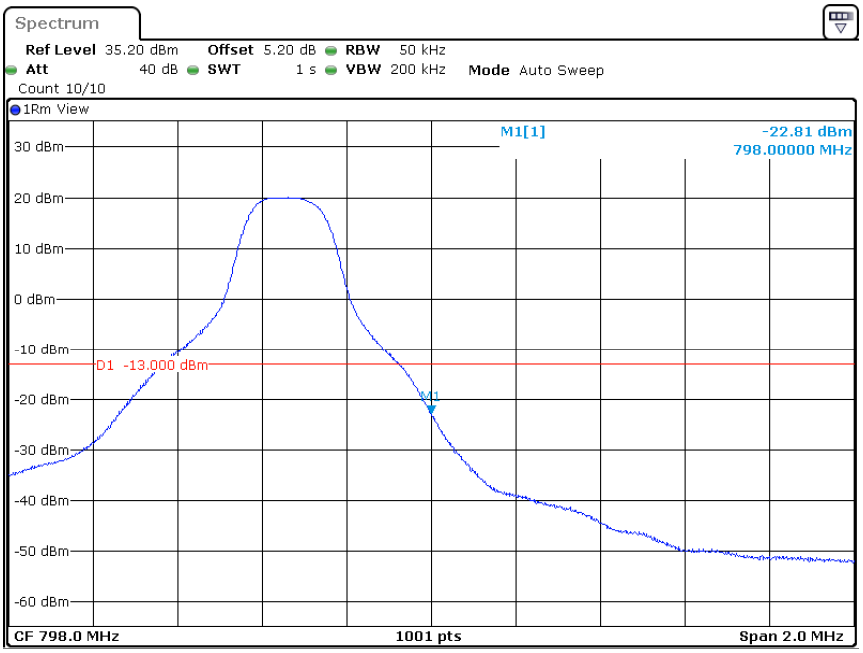

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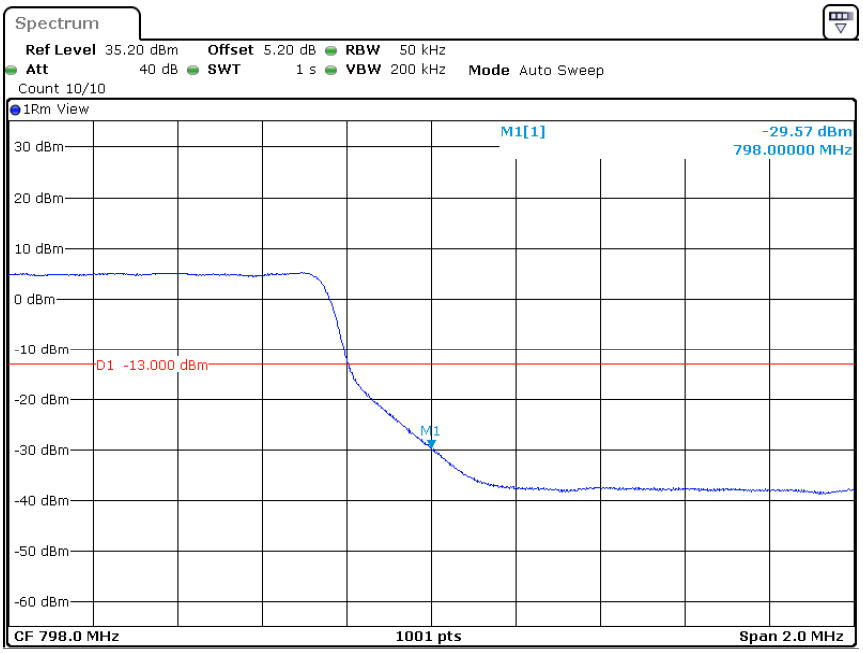
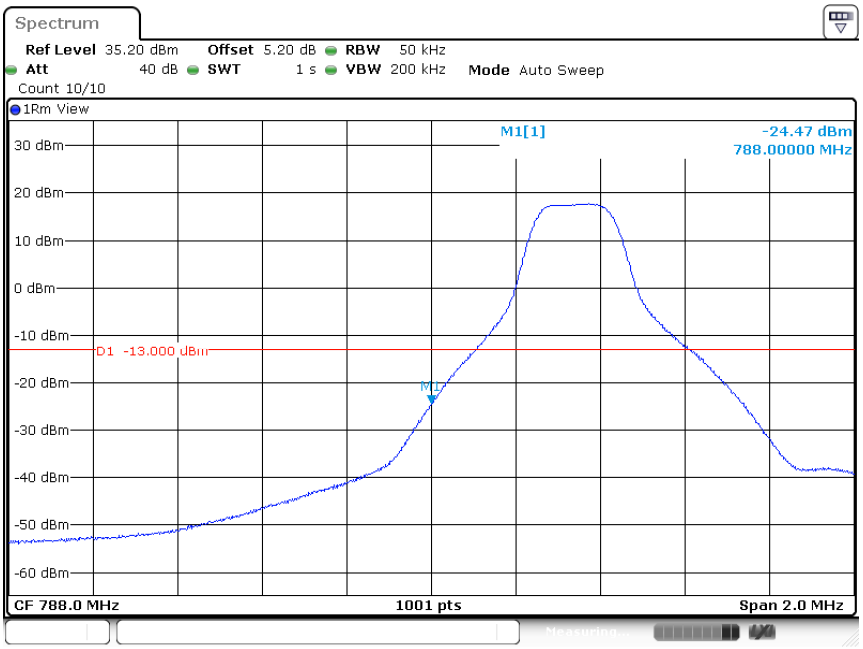
Band14-5MHz-QPSK-23355-25RB#0



Date: 16.JUL.2020 02:08:56

Band14-5MHz-64QAM-23305-1RB#0



Date: 11.AUG.2020 08:52:23

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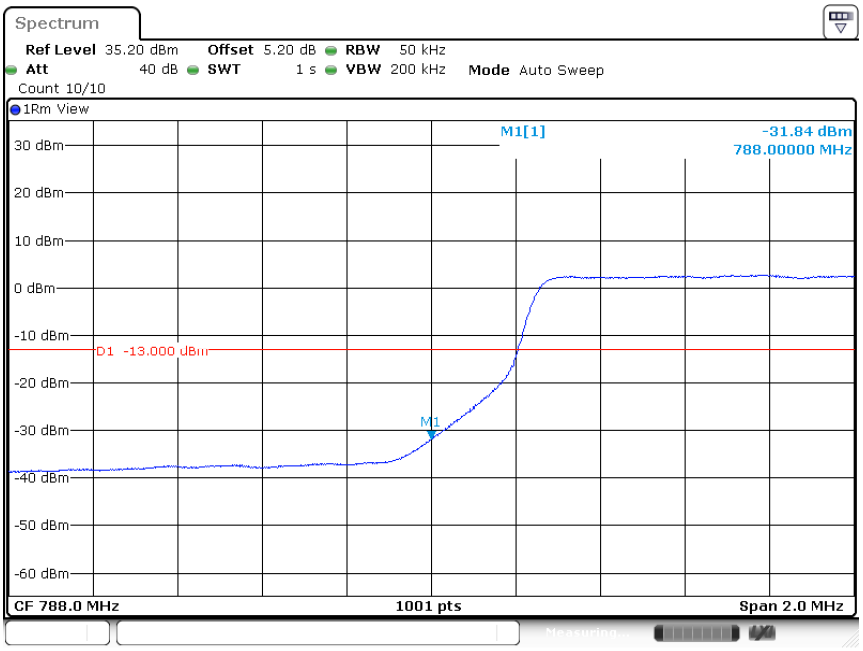
Band14-5MHz-64QAM-23305-25RB#0



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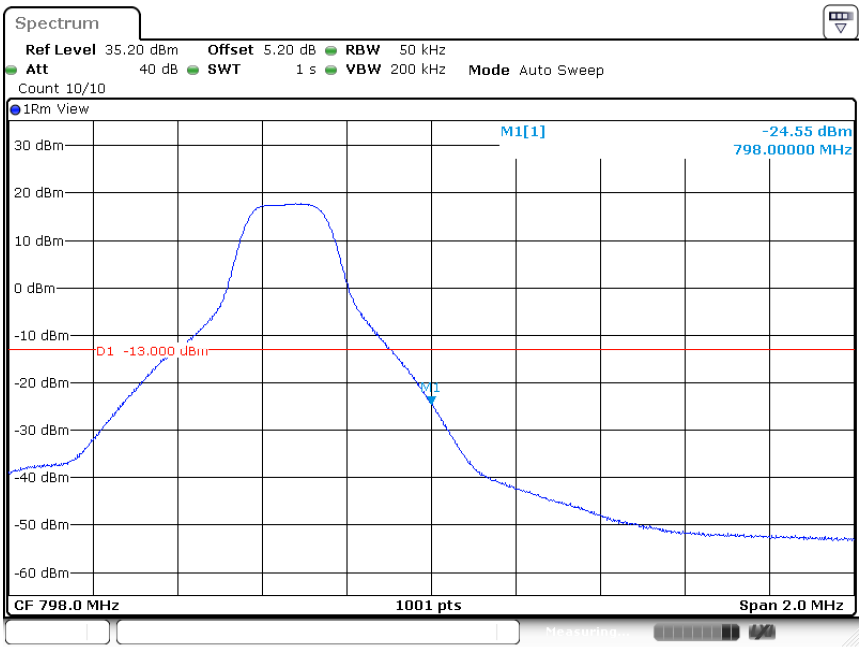

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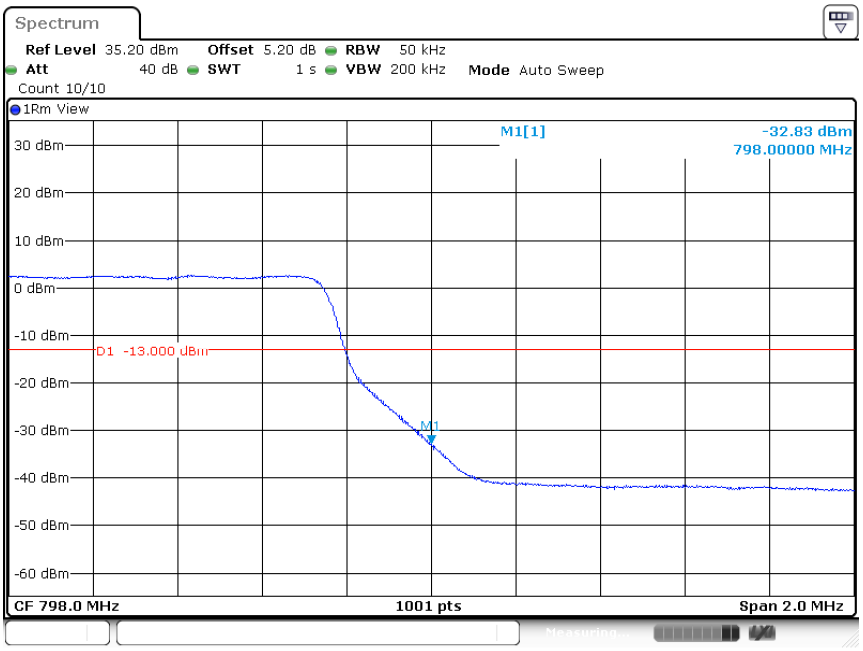

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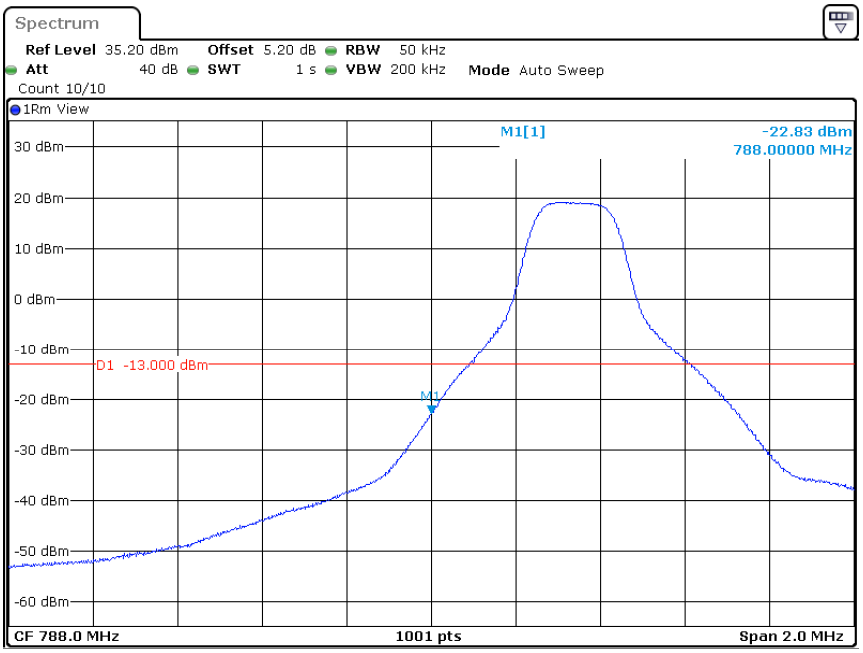
Band14-5MHz-16QAM-23305-1RB#0



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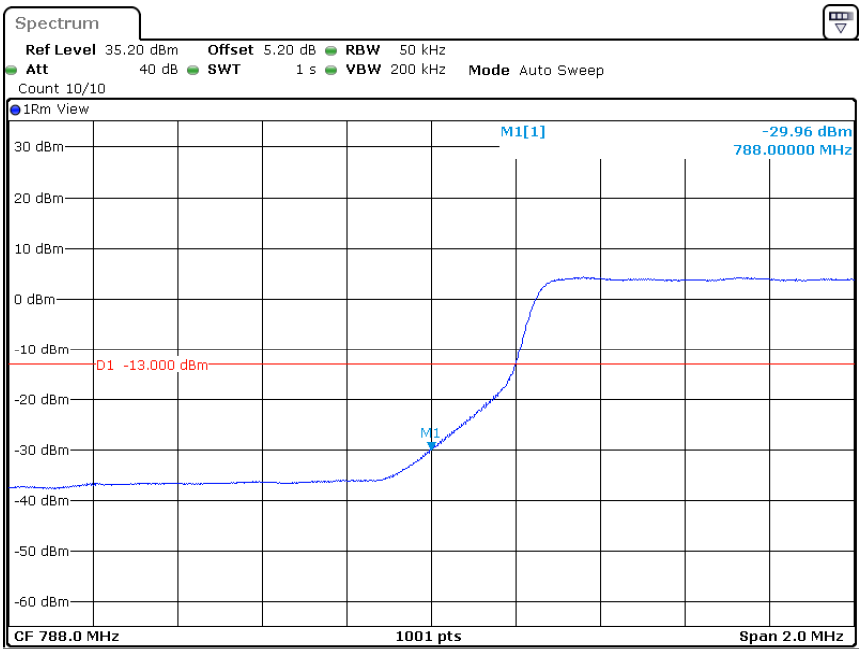

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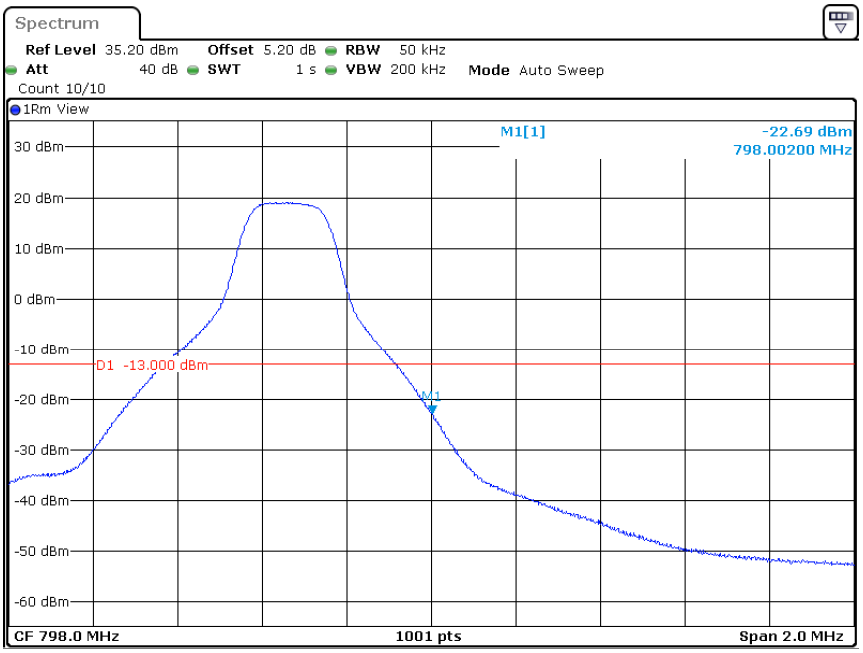

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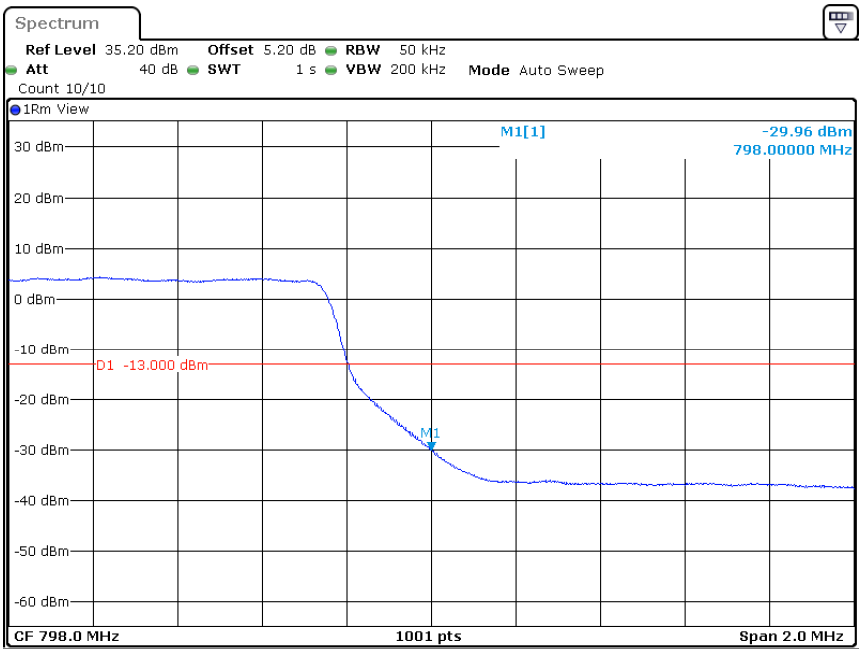
Band14-5MHz-16QAM-23355-25RB#0



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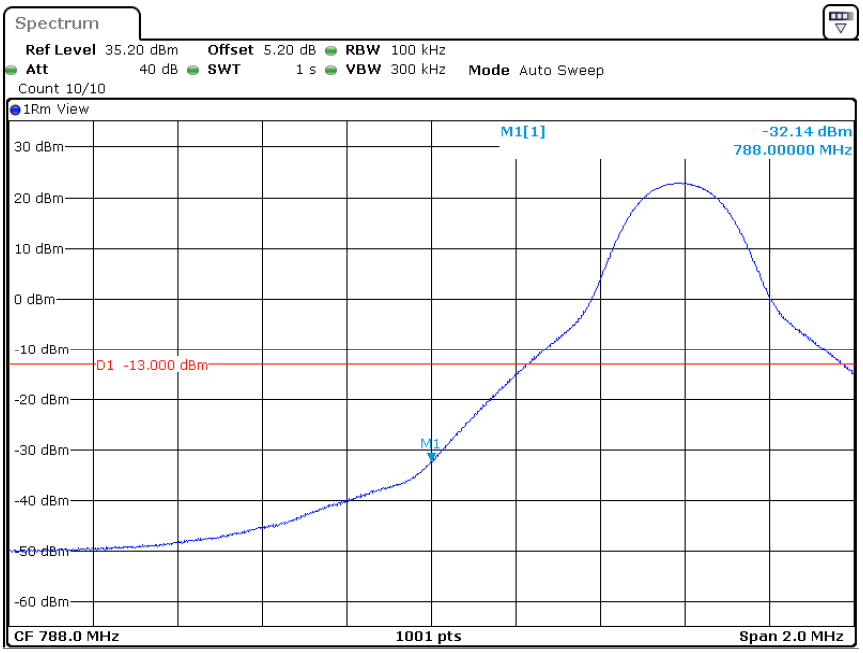
Band14-10MHz-QPSK-23330_Left-1RB#0



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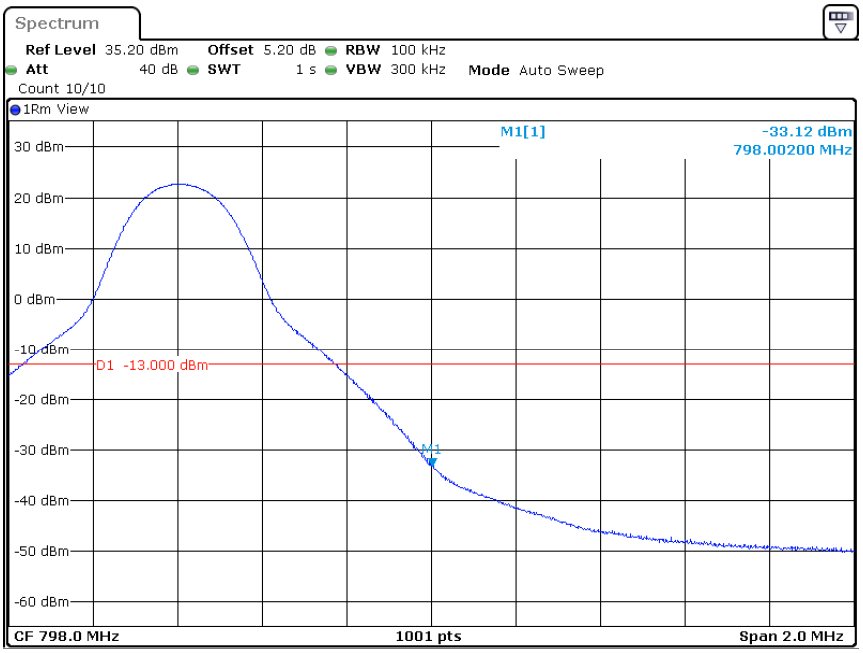
Band14-10MHz-QPSK-23330_Right-1RB#49



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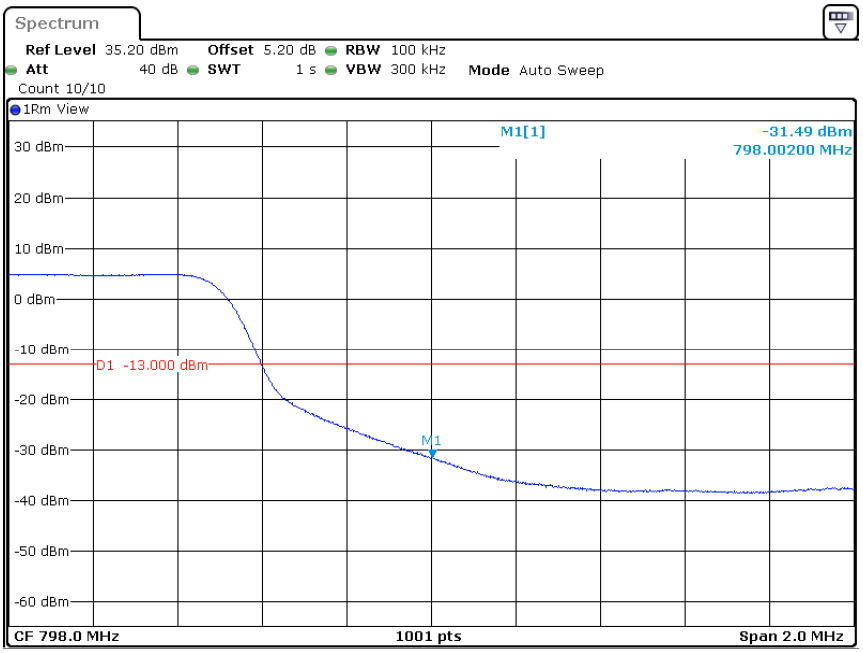

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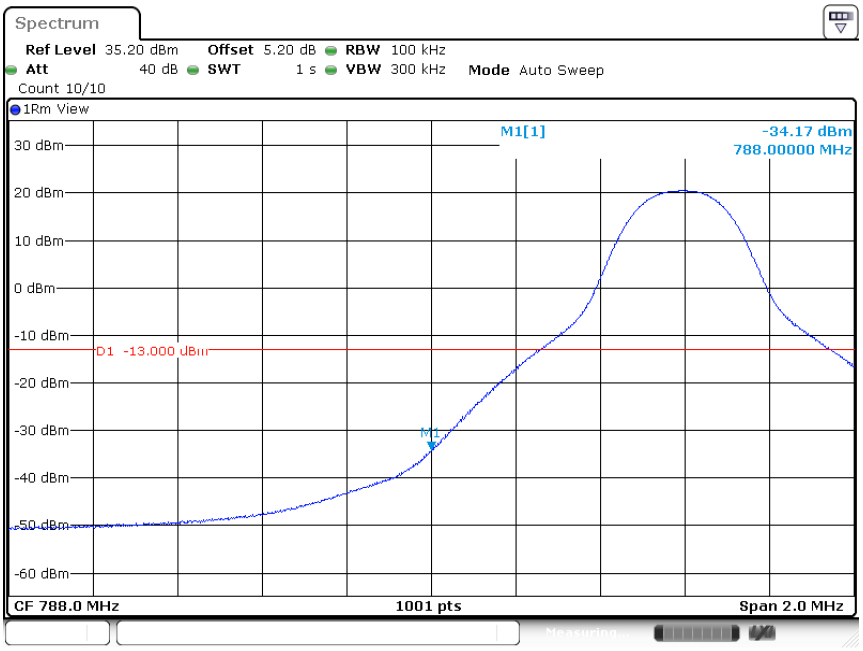

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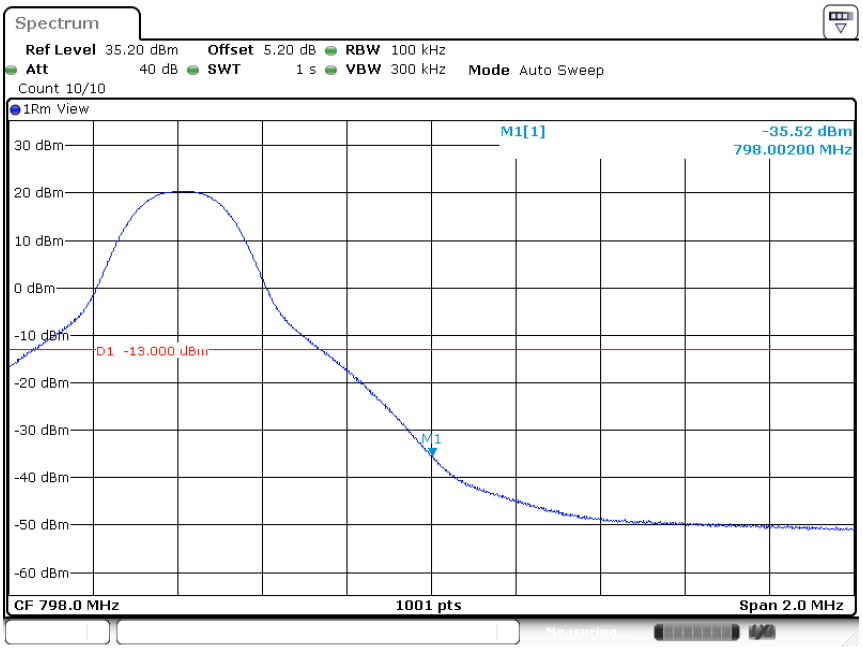

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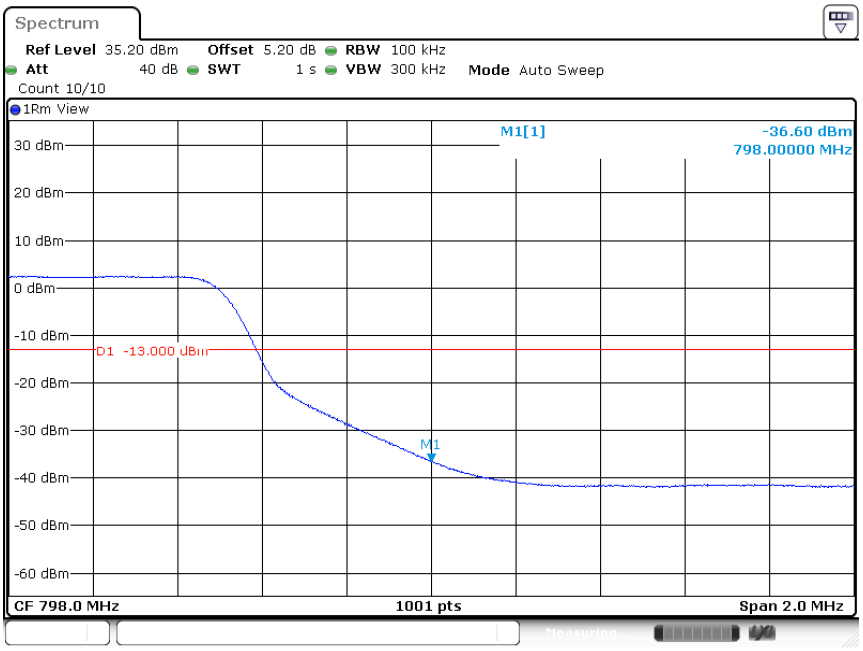
Band14-10MHz-64QAM-23330_Right-50RB#0



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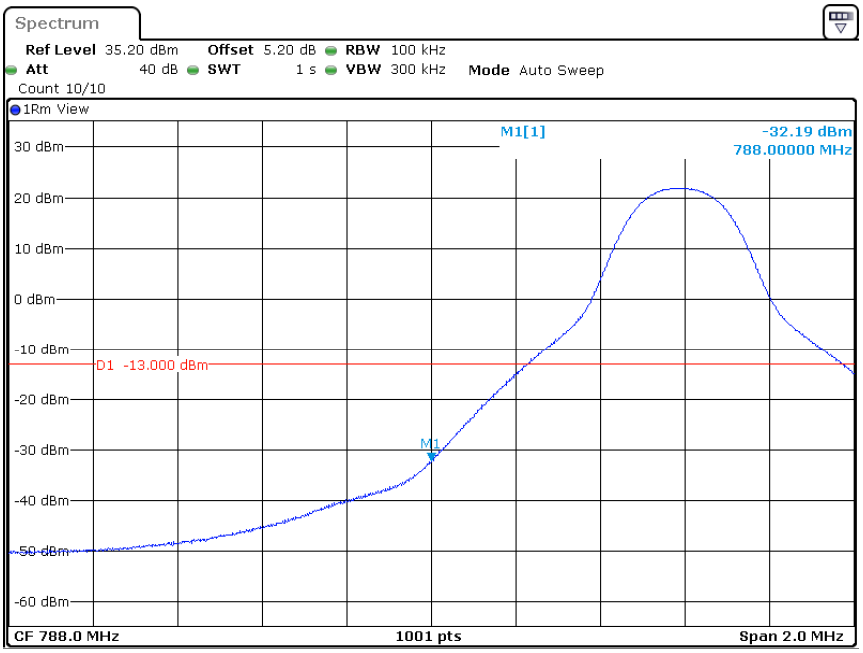

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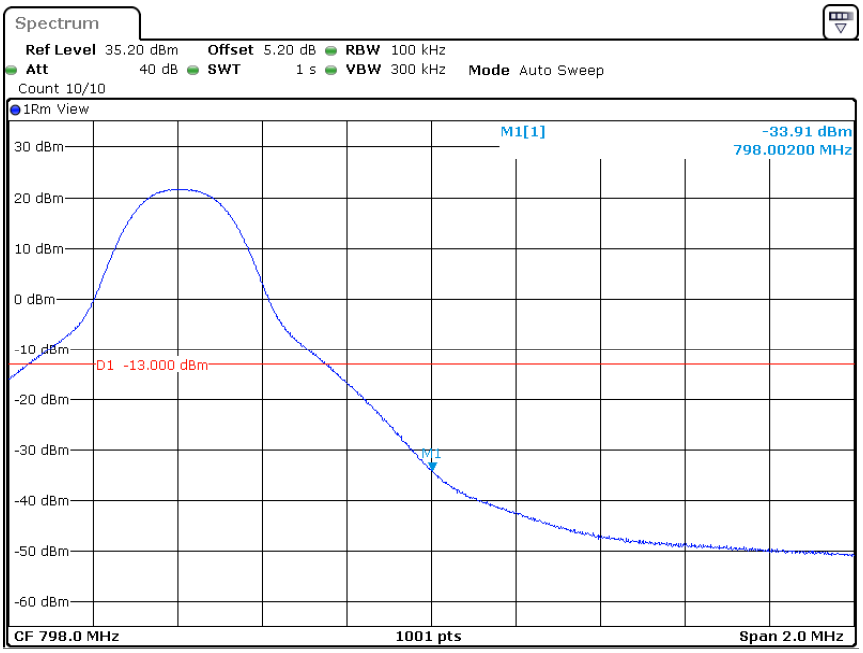
Band14-10MHz-16QAM-23330_Right-1RB#49



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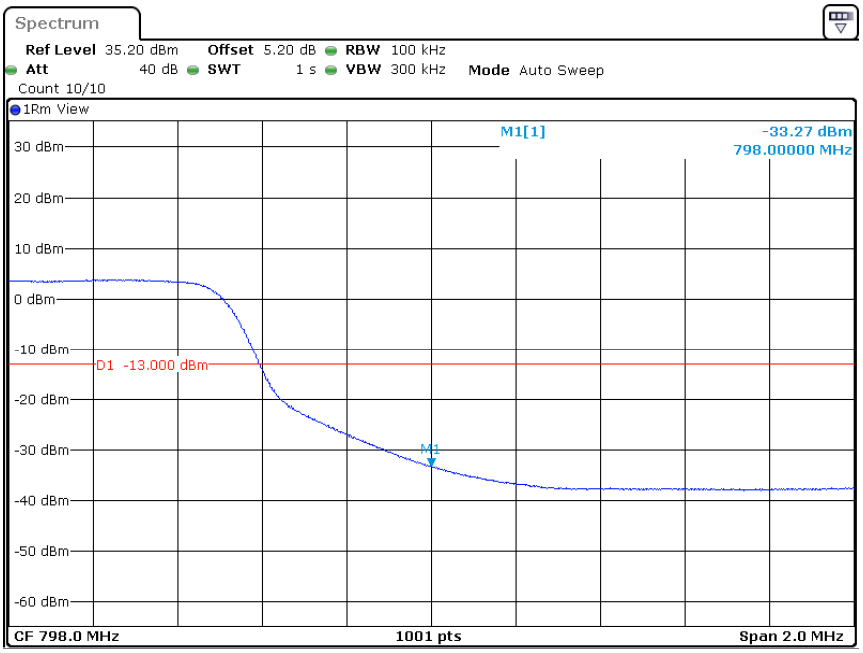

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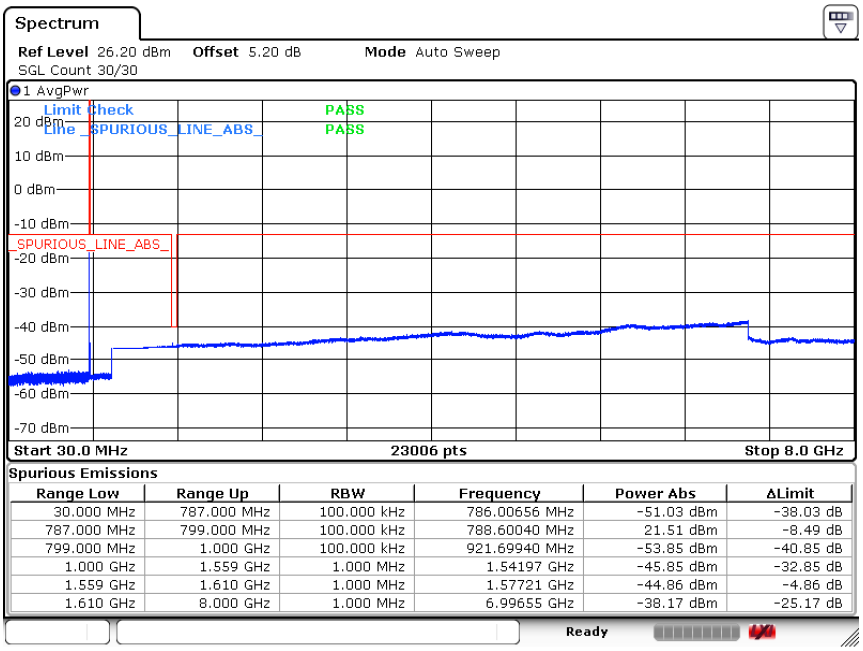
7. Spurious Emission at Antenna Terminal

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.

7.1. Test Plots

Band14-10MHz-QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	787.000 MHz	100.000 kHz	786.00656 MHz	-51.03 dBm	-38.03 dB
787.000 MHz	799.000 MHz	100.000 kHz	788.60040 MHz	21.51 dBm	-8.49 dB
799.000 MHz	1.000 GHz	100.000 kHz	921.69940 MHz	-53.85 dBm	-40.85 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.54197 GHz	-45.85 dBm	-32.85 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.57721 GHz	-44.86 dBm	-4.86 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.99655 GHz	-38.17 dBm	-25.17 dB

Date: 18.AUG.2020 14:39:19

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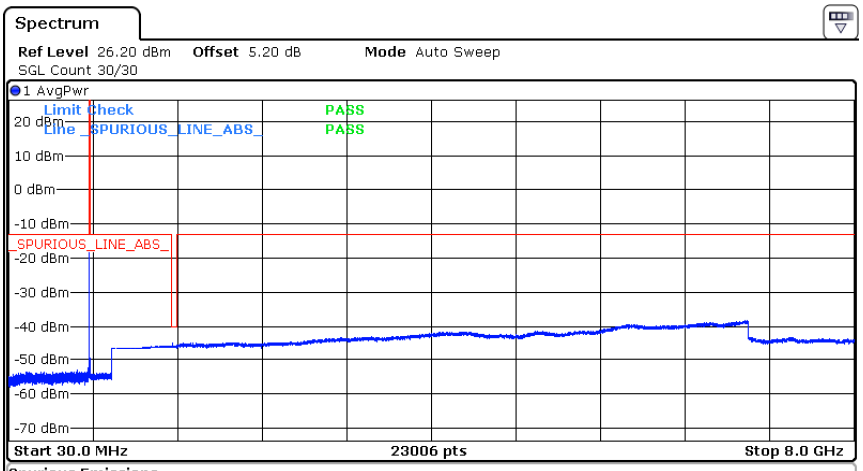
Band14-10MHz-16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	787.000 MHz	100.000 kHz	786.85808 MHz	-49.07 dBm	-36.07 dB
787.000 MHz	799.000 MHz	100.000 kHz	788.57642 MHz	20.56 dBm	-9.44 dB
799.000 MHz	1.000 GHz	100.000 kHz	947.61544 MHz	-53.84 dBm	-40.84 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.46714 GHz	-45.89 dBm	-32.89 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.57732 GHz	-44.94 dBm	-4.94 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.99080 GHz	-38.31 dBm	-25.31 dB

Ready

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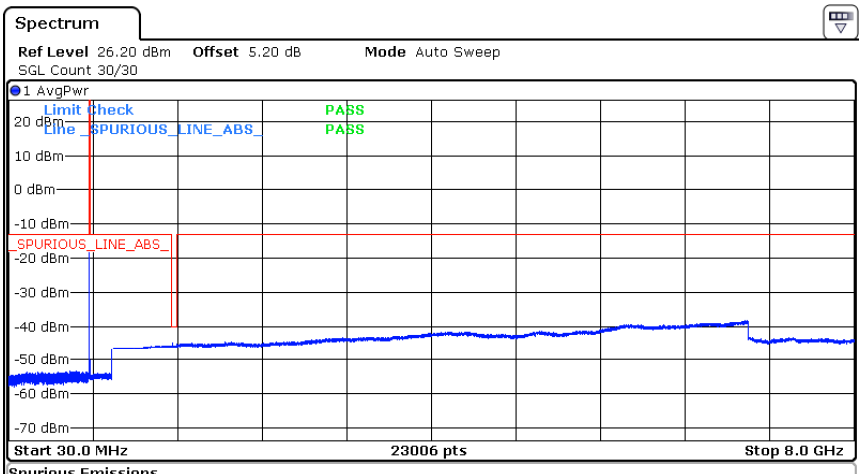
Band14-10MHz-64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	787.000 MHz	100.000 kHz	786.85808 MHz	-49.39 dBm	-36.39 dB
787.000 MHz	799.000 MHz	100.000 kHz	788.58841 MHz	20.72 dBm	-9.28 dB
799.000 MHz	1.000 GHz	100.000 kHz	872.27811 MHz	-54.00 dBm	-41.00 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.55481 GHz	-45.79 dBm	-32.79 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.57711 GHz	-44.94 dBm	-4.94 dB
1.610 GHz	8.000 GHz	1.000 MHz	6.99336 GHz	-38.36 dBm	-25.36 dB

Ready

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8. Field Strength of Spurious Radiation

8.1. Test Mode =LTE/TM1 10MHz

8.1.1.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
73.9917	-66.25	-13.00	53.25	Vertical
321.1116	-69.59	-13.00	56.59	Vertical
1577.3155	-52.08	-40.00	12.08	Vertical
3000.0000	-56.40	-13.00	43.40	Vertical
7323.1729	-55.96	-13.00	42.96	Vertical
17997.5999	-40.48	-13.00	27.48	Vertical
41.4951	-63.79	-13.00	50.79	Horizontal
237.5904	-68.75	-13.00	55.75	Horizontal
1576.9154	-53.18	-40.00	13.18	Horizontal
2699.5399	-56.37	-13.00	43.37	Horizontal
8009.0004	-56.62	-13.00	43.62	Horizontal
16395.5358	-44.10	-13.00	31.10	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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9. Frequency Stability

9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-0.30	-0.000378	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.40	0.000504	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	1.10	0.001387	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	VL	NT	-1.90	-0.002396	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	VN	NT	-2.30	-0.002900	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	VH	NT	-2.30	-0.002900	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VL	NT	0.10	0.000126	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VN	NT	-0.30	-0.000378	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VH	NT	0.30	0.000378	±2.5	PASS

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9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	0.50	0.000631	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.50	-0.000631	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.10	-0.001387	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	0.20	0.000252	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-0.60	-0.000757	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-0.60	-0.000757	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.60	-0.002018	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.70	-0.000883	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	-30	-2.50	-0.003153	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	-20	0.80	0.001009	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	0	-0.90	-0.001135	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	10	-1.90	-0.002396	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	20	0.50	0.000631	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	30	-1.70	-0.002144	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	40	-0.80	-0.001009	±2.5	PASS
Band14	10MHz	64QAM	23330	50RB#0	NV	50	0.80	0.001009	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-30	-0.10	-0.000126	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-20	-0.20	-0.000252	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	0	-2.00	-0.002522	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	10	1.30	0.001639	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	20	0.90	0.001135	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	40	-0.80	-0.001009	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	50	-2.00	-0.002522	±2.5	PASS

The End

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