



Appendix B

E-UTRA Band 13



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.03	15.38	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.11	15.46	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.03	15.38	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.20	14.55	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.24	14.59	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.17	14.52	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.20	14.55	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.00	15.35	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.06	15.41	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.02	15.37	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.11	14.46	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.08	14.43	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.21	14.56	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.13	14.48	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.02	15.37	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.19	15.54	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.09	15.44	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.11	14.46	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.11	14.46	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.19	14.54	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.07	14.42	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.26	14.61	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.38	14.73	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.43	14.78	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.16	13.51	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.20	13.55	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.26	13.61	34.77	PASS



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Band13	5MHz	16QAM	23205	25RB#0	22.22	13.57	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.58	14.93	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.71	15.06	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.28	14.63	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.16	13.51	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.18	13.53	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.19	13.54	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.19	13.54	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.54	14.89	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.32	14.67	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.38	14.73	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.19	13.54	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.27	13.62	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.20	13.55	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.17	13.52	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.36	13.71	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.30	13.65	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.32	13.67	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	21.44	12.79	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	21.43	12.78	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	21.33	12.68	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.41	12.76	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.22	13.57	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.30	13.65	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.33	13.68	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	21.44	12.79	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	21.37	12.72	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	21.40	12.75	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.45	12.80	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.37	13.72	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.36	13.71	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.38	13.73	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	21.31	12.66	34.77	PASS



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Band13	5MHz	64QAM	23255	12RB#0	21.40	12.75	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	21.51	12.86	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.53	12.88	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.13	15.48	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.05	15.40	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.22	15.57	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.16	14.51	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.19	14.54	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.15	14.50	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.18	14.53	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.46	14.81	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.40	14.75	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.36	14.71	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.15	13.50	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.16	13.51	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.19	13.54	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.12	13.47	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.34	13.69	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.34	13.69	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.34	13.69	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	21.52	12.87	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	21.52	12.87	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	21.37	12.72	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.55	12.90	34.77	PASS



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ANT4:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.23	16.78	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.33	16.88	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.17	16.72	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.28	15.83	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.34	15.89	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.38	15.93	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.36	15.91	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.19	16.74	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.30	16.85	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.13	16.68	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.30	15.85	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.23	15.78	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.33	15.88	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.28	15.83	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.10	16.65	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.21	16.76	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.20	16.75	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.32	15.87	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.29	15.84	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.32	15.87	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.35	15.90	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.34	15.89	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.96	16.51	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.66	16.21	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.29	14.84	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.41	14.96	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.29	14.84	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.33	14.88	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.76	16.31	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.47	16.02	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.42	15.97	34.77	PASS



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Band13	5MHz	16QAM	23230	12RB#0	21.38	14.93	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.27	14.82	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.36	14.91	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.31	14.86	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.81	16.36	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.83	16.38	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.13	15.68	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.24	14.79	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.38	14.93	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.32	14.87	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.27	14.82	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.18	14.73	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.17	14.72	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.23	14.78	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.44	13.99	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.44	13.99	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.21	13.76	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.31	13.86	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.22	14.77	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.11	14.66	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.15	14.70	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.32	13.87	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.39	13.94	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.38	13.93	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.41	13.96	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.19	14.74	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.18	14.73	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.16	14.71	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.29	13.84	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.42	13.97	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.47	14.02	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.46	14.01	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.35	16.90	34.77	PASS



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Band13	10MHz	QPSK	23230	1RB#24	23.17	16.72	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.39	16.94	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.31	15.86	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.40	15.95	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.32	15.87	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.32	15.87	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.47	16.02	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.55	16.10	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.60	16.15	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.25	14.80	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.36	14.91	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.28	14.83	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.44	14.99	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.23	14.78	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.22	14.77	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.23	14.78	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.23	13.78	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.39	13.94	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.26	13.81	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.23	13.78	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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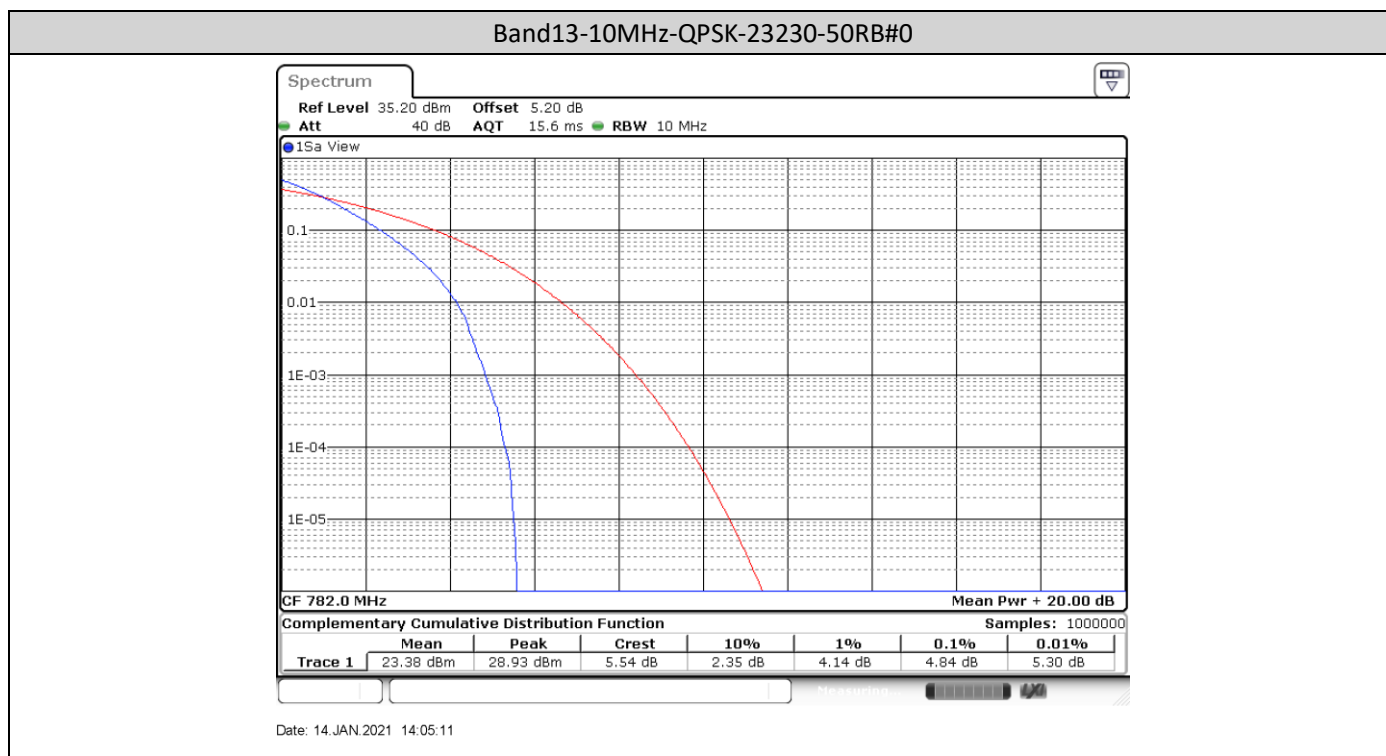


2. Peak-to-Average Ratio (CCDF)

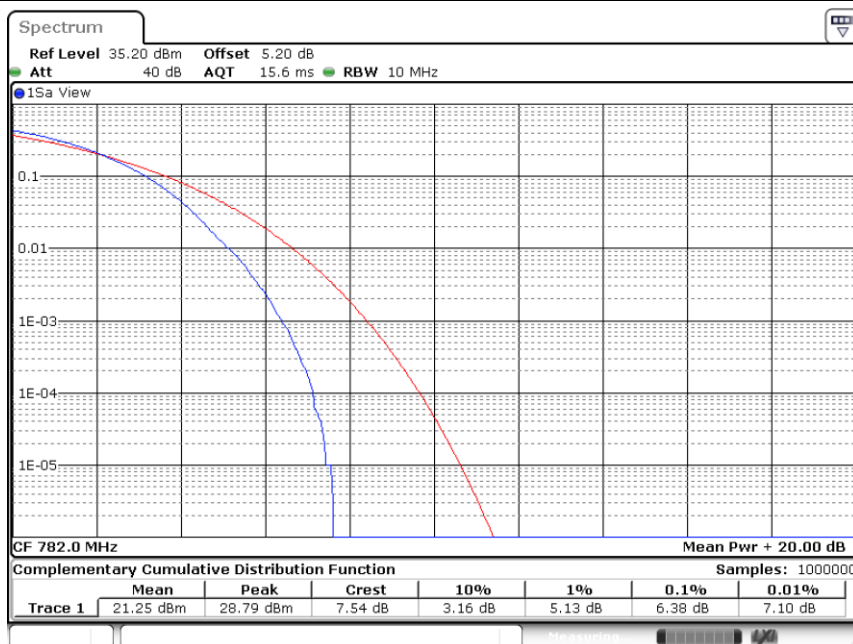
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.84	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.38	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.83	13	PASS

2.2. Test Plots

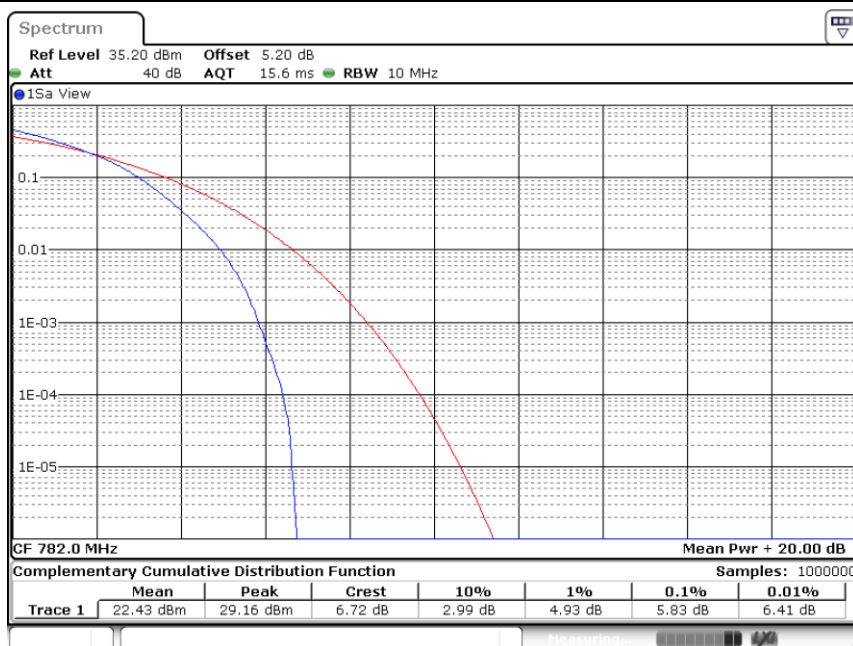


Band13-10MHz-64QAM-23230-50RB#0



Date: 14 JAN 2021 14:13:19

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



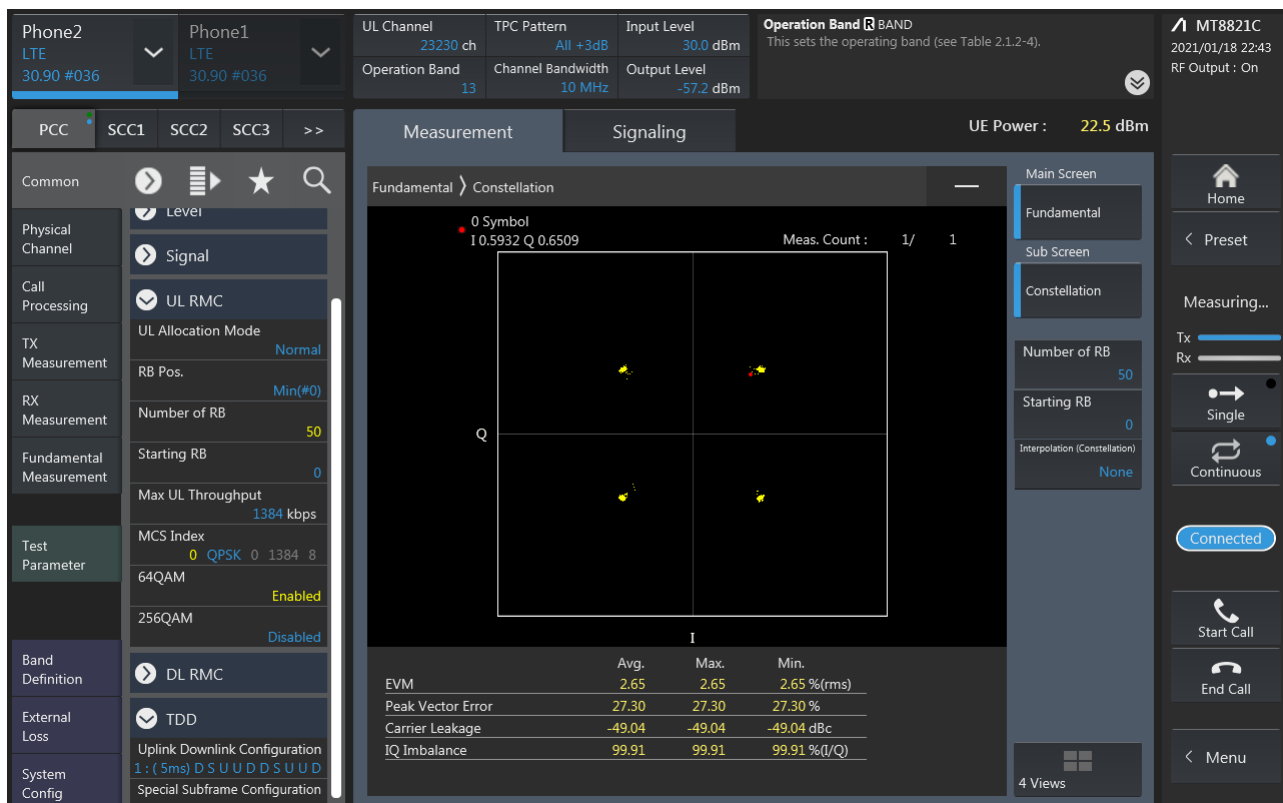
Date: 14 JAN 2021 14:05:23



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



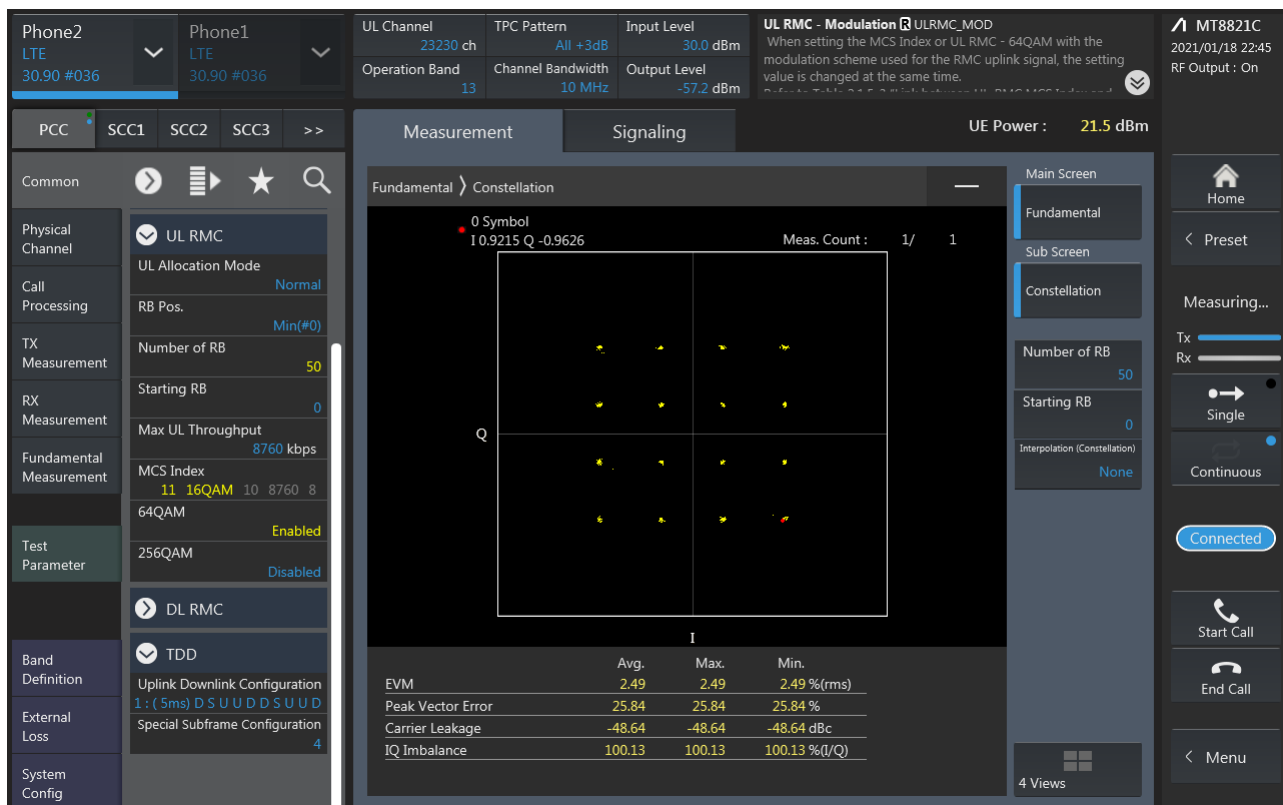
	Avg.	Max.	Min.
EVM	2.65	2.65	2.65 %(rms)
Peak Vector Error	27.30	27.30	27.30 %
Carrier Leakage	-49.04	-49.04	-49.04 dBc
IQ Imbalance	99.91	99.91	99.91 %(I/Q)





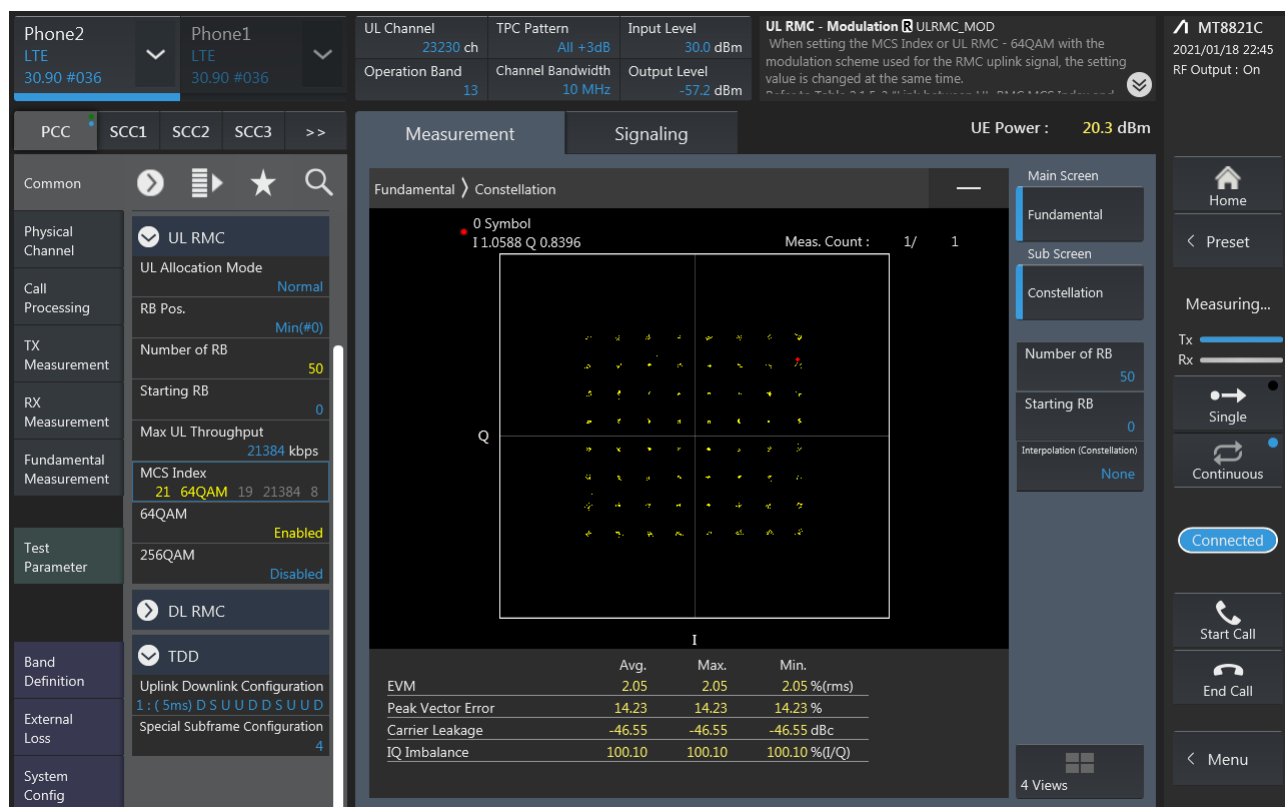
3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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

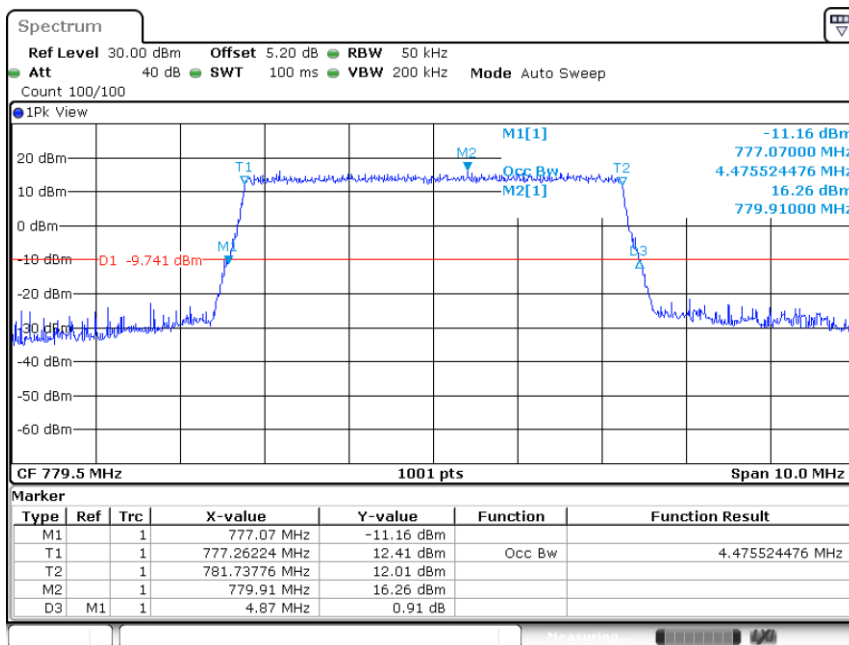
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	4.870	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.770	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.880	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.880	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.880	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.870	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.486	4.830	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	4.920	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.486	4.900	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.911	9.620	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.911	9.600	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.680	PASS



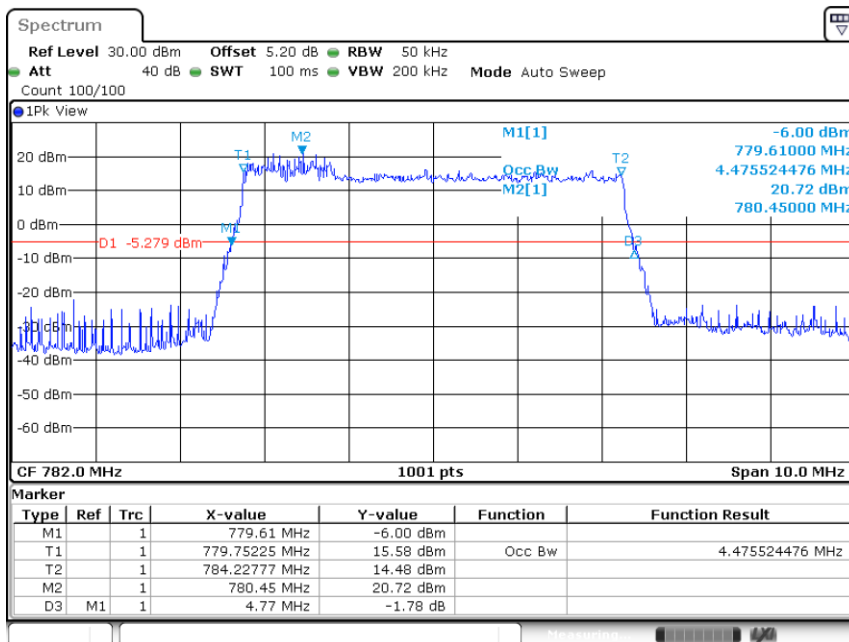


4.2. Test Plots

Band13-5MHz-QPSK-23205-25RB#0-4.476



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

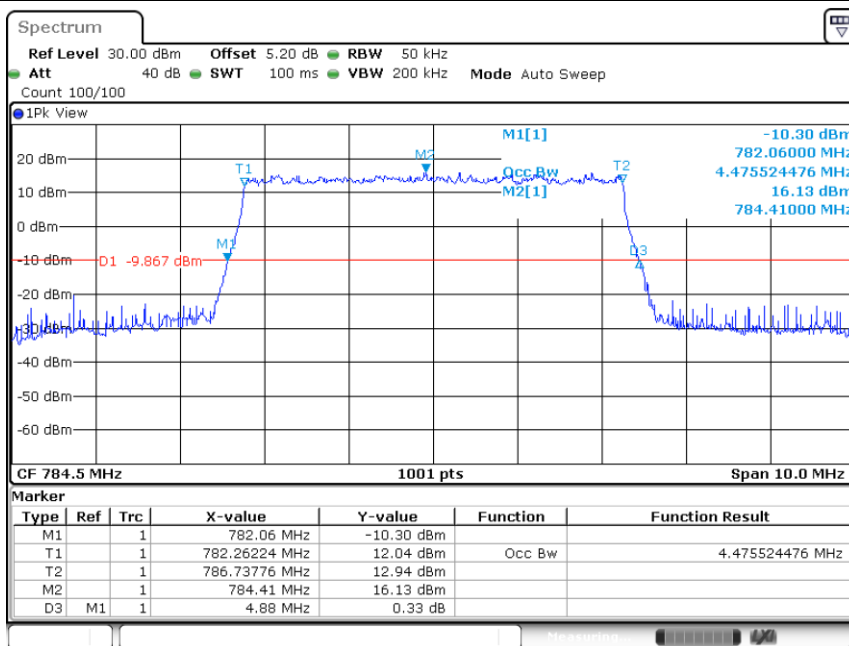


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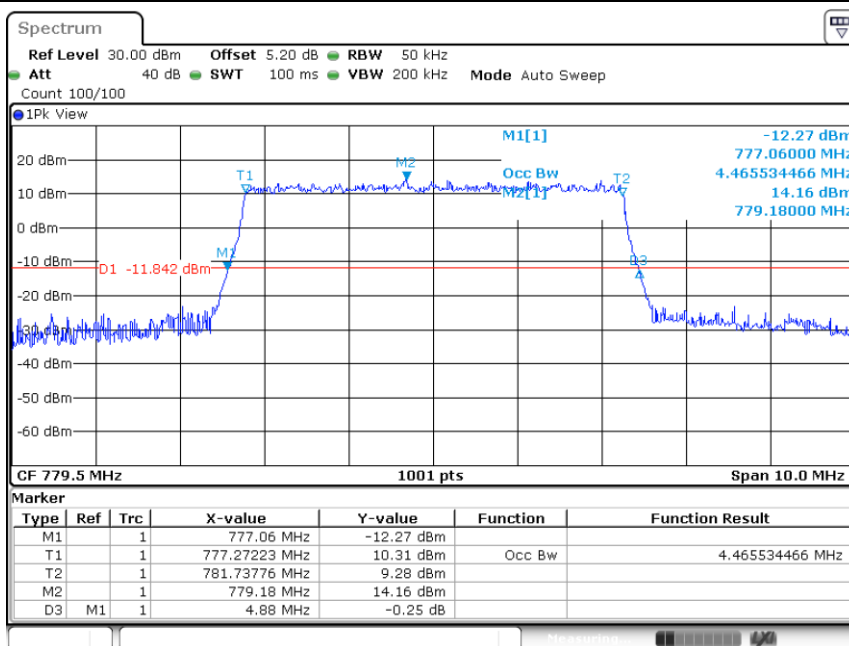


Band13-5MHz-QPSK-23255-25RB#0-4.476



Date: 14.JAN.2021 13:51:29

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



Date: 14.JAN.2021 14:05:47



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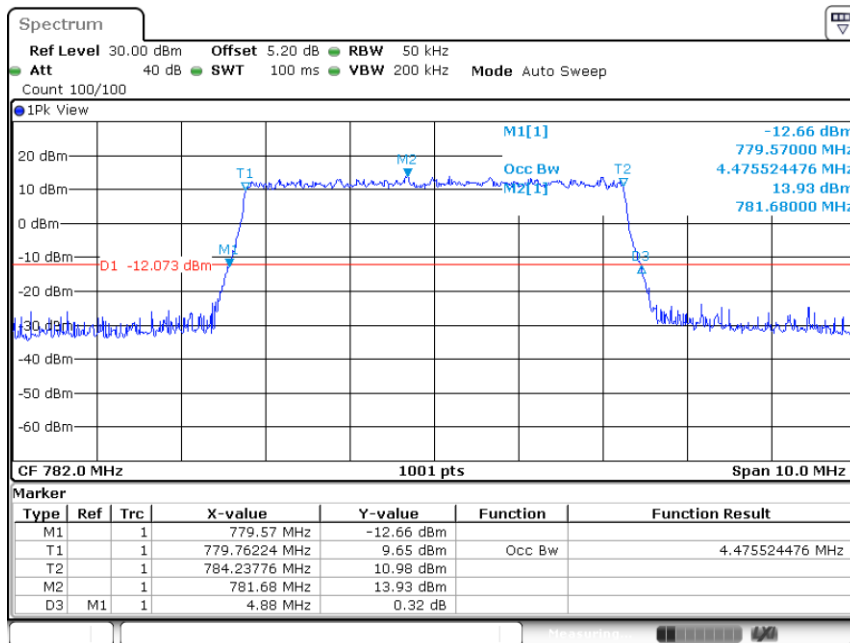
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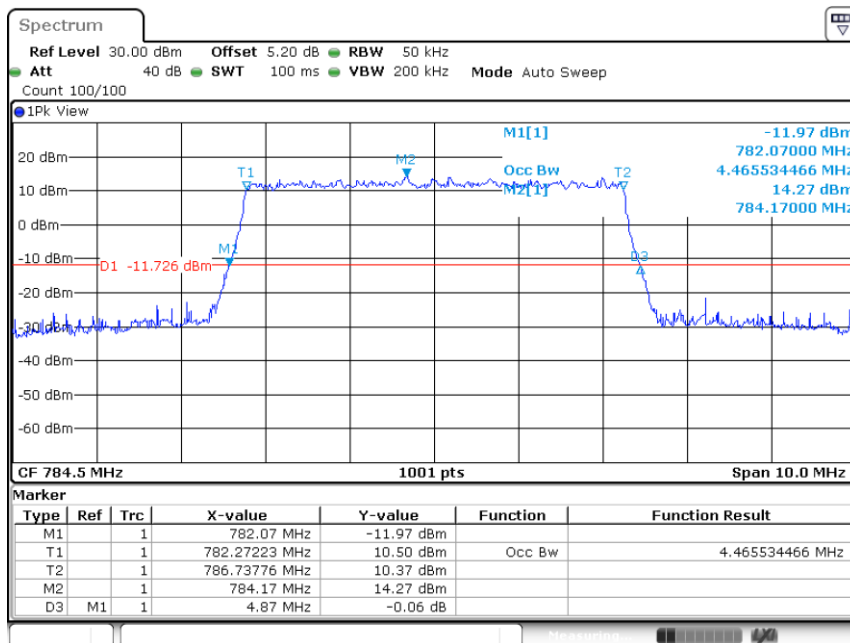


Band13-5MHz-64QAM-23230-25RB#0-4.476



Date: 14.JAN.2021 14:06:07

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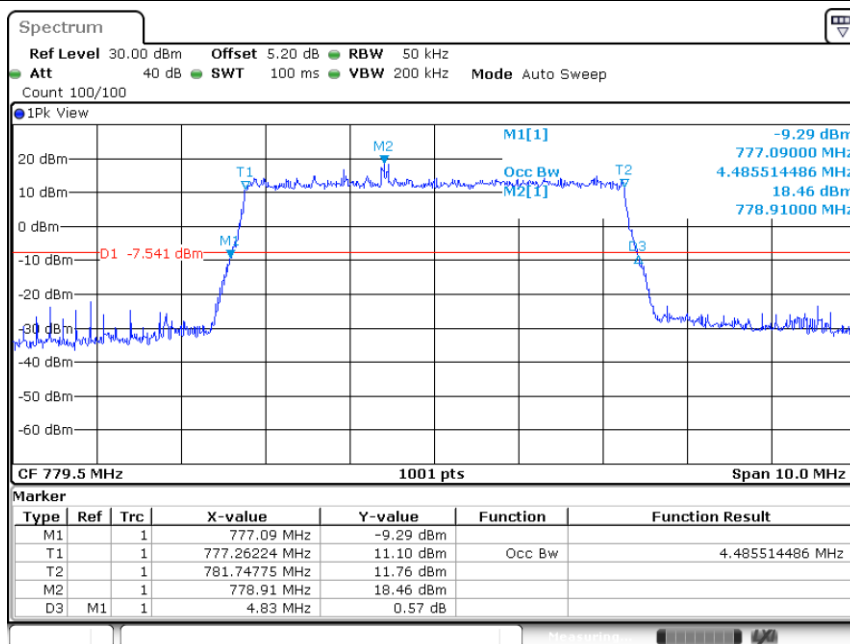


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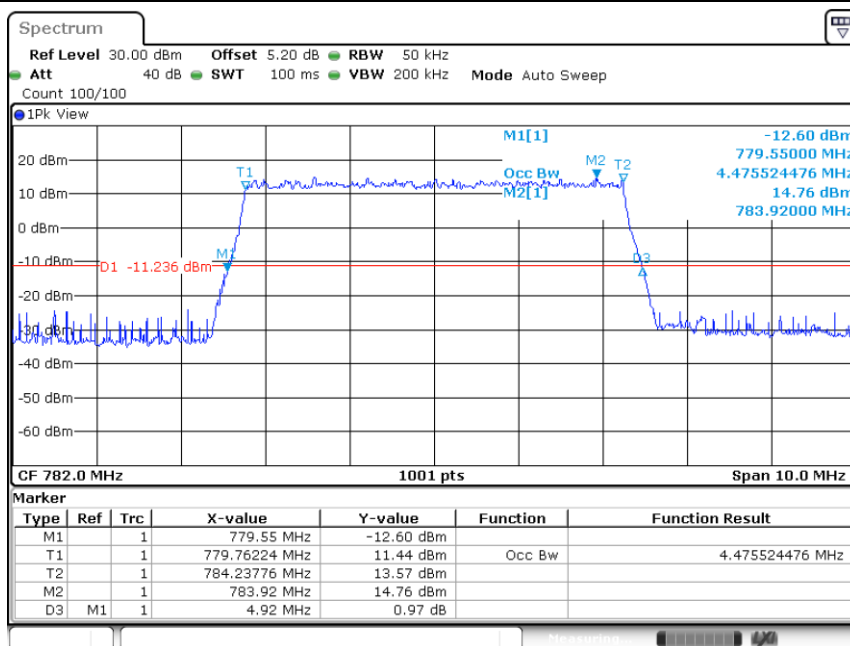


Band13-5MHz-16QAM-23205-25RB#0-4.486



Date: 14.JAN.2021 13:49:19

Band13-5MHz-16QAM-23230-25RB#0-4.476



Date: 14.JAN.2021 13:51:10



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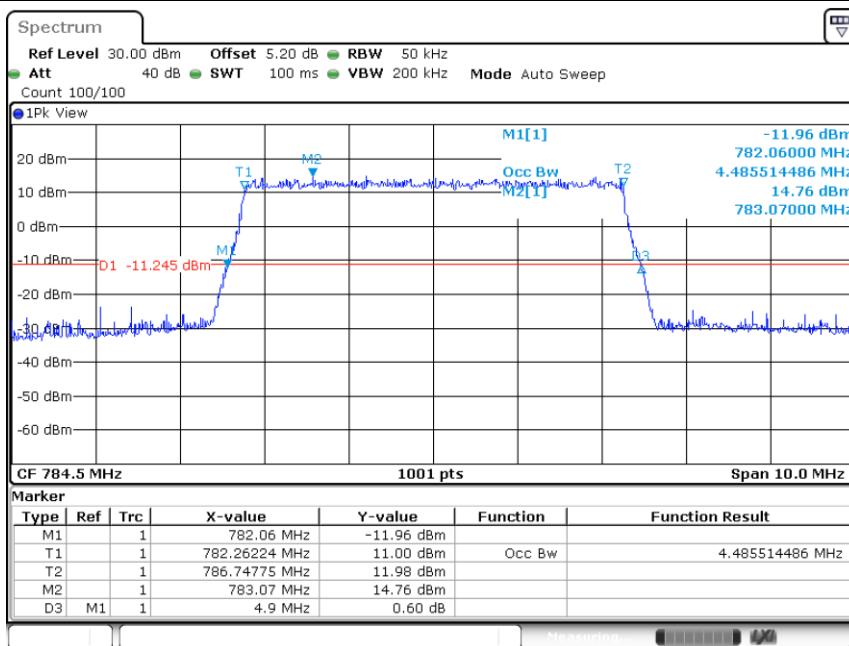
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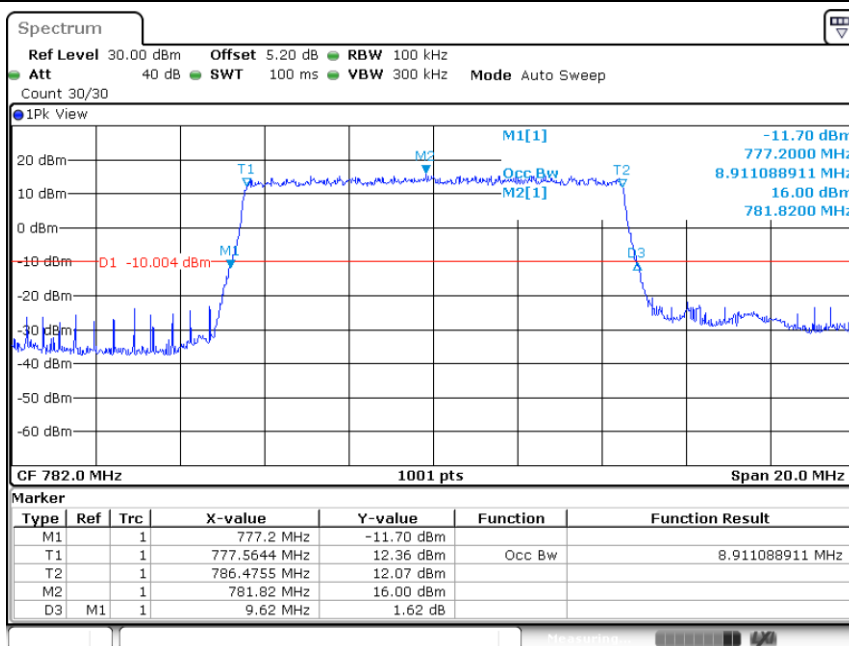


Band13-5MHz-16QAM-23255-25RB#0-4.486



Date: 14.JAN.2021 13:51:49

Band13-10MHz-QPSK-23230-50RB#0-8.911



Date: 14.JAN.2021 13:53:17



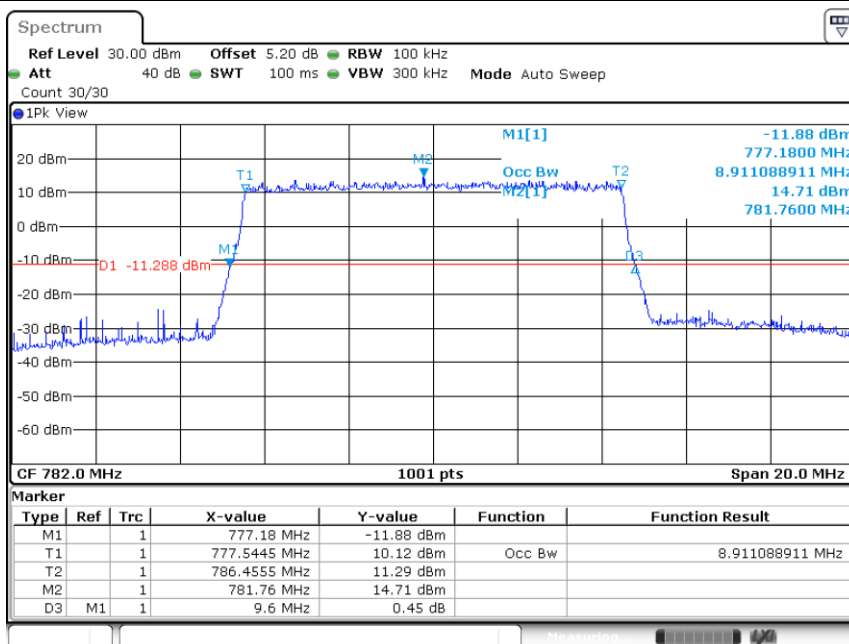
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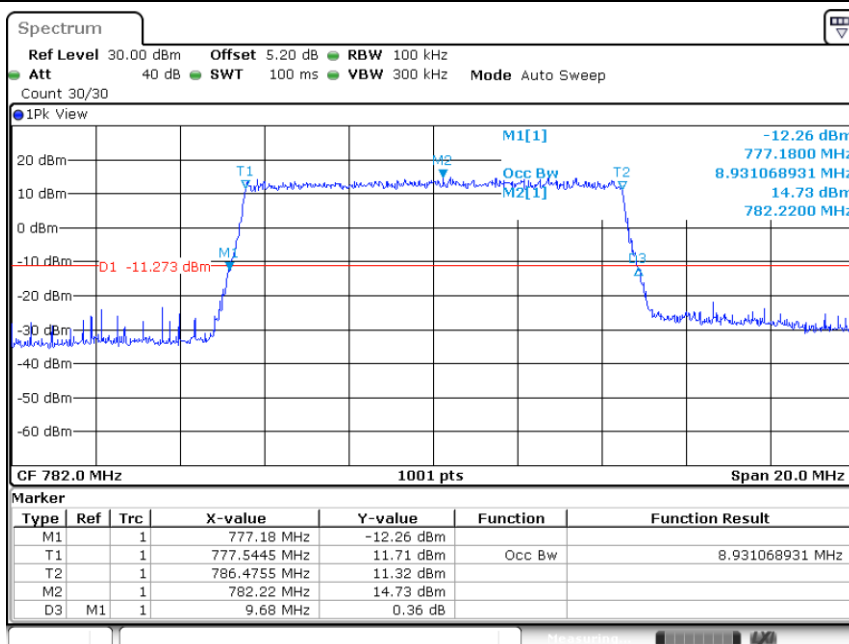


Band13-10MHz-64QAM-23230-50RB#0-8.911



Date: 14.JAN.2021 14:06:44

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



Date: 14.JAN.2021 13:53:30



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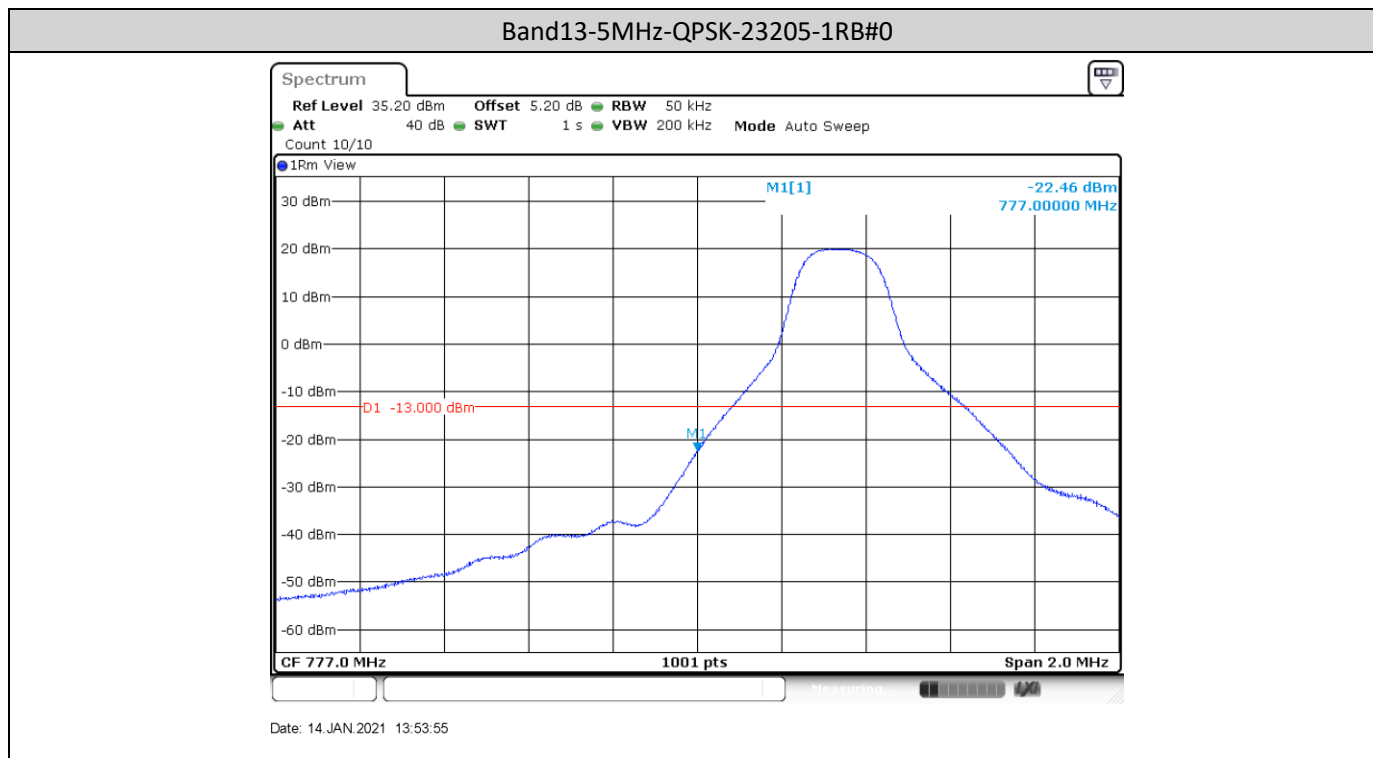
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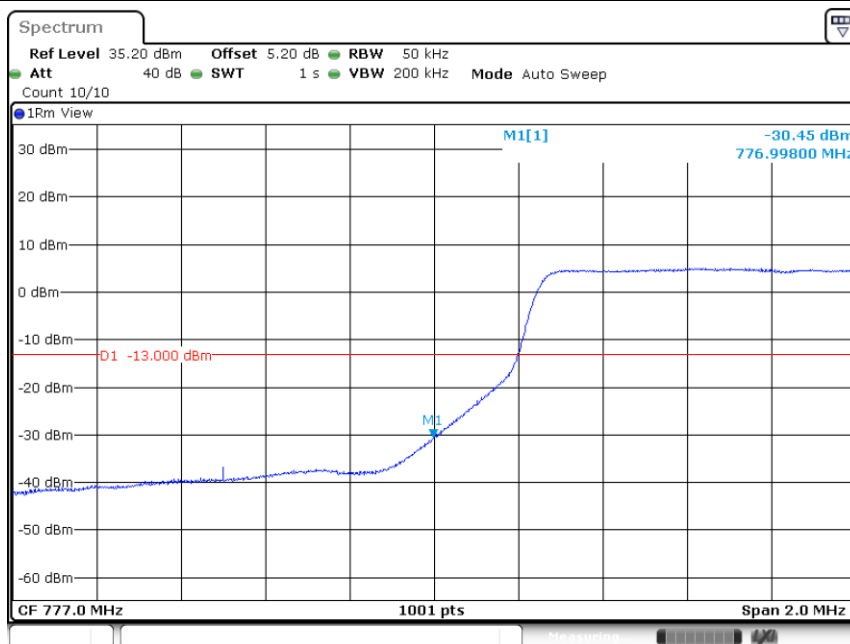
5. Band Edge Compliance

5.1. Test Plots





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



Date: 14.JAN.2021 13:55:01

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



Date: 14.JAN.2021 13:57:04



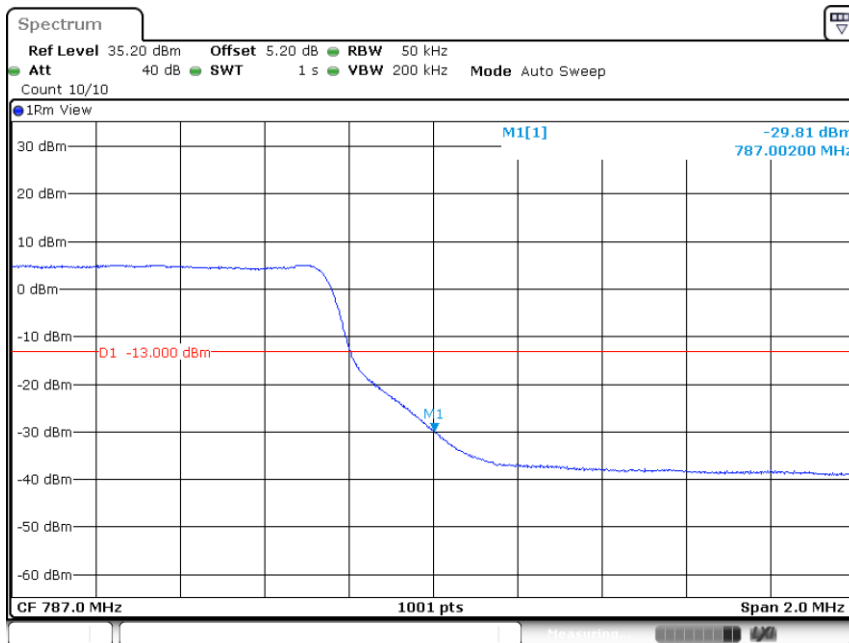
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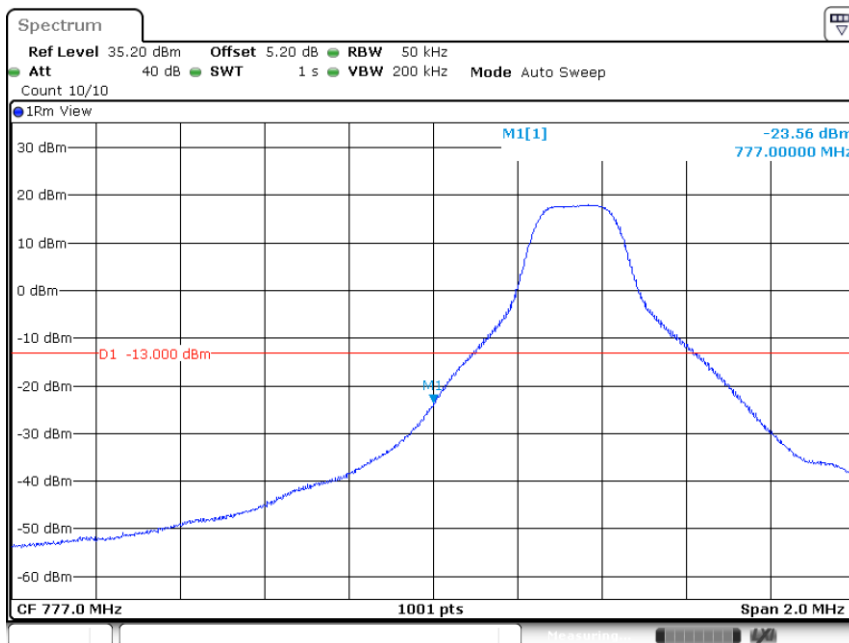


Band13-5MHz-QPSK-23255-25RB#0



Date: 14.JAN.2021 13:57:46

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



Date: 14.JAN.2021 14:07:09



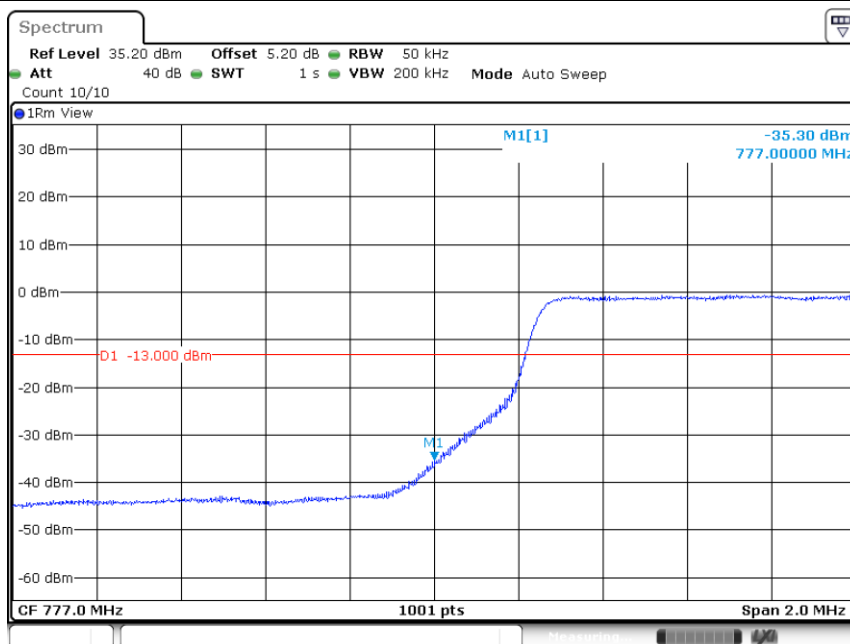
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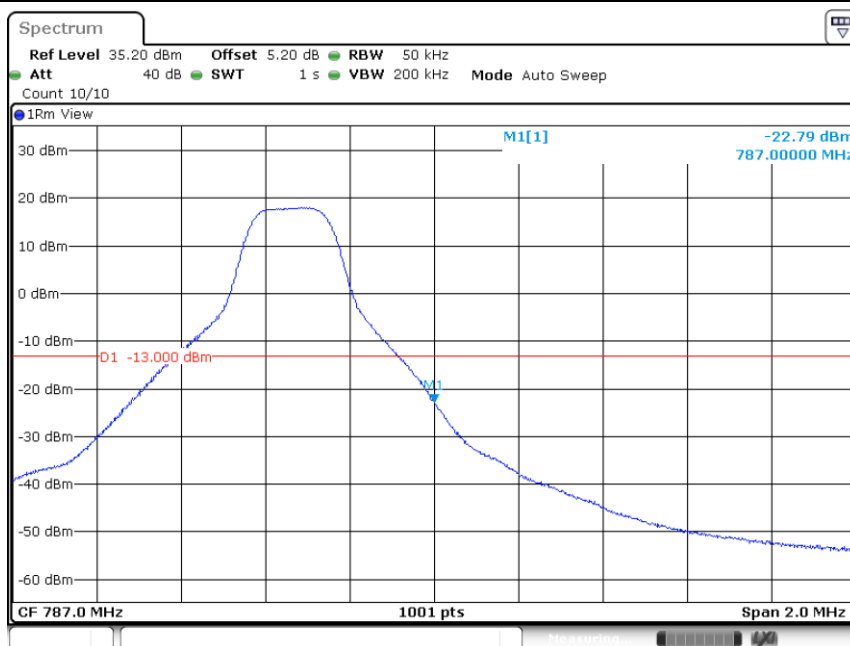


Band13-5MHz-64QAM-23205-25RB#0



Date: 14.JAN.2021 14:07:30

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



Date: 14.JAN.2021 14:08:50



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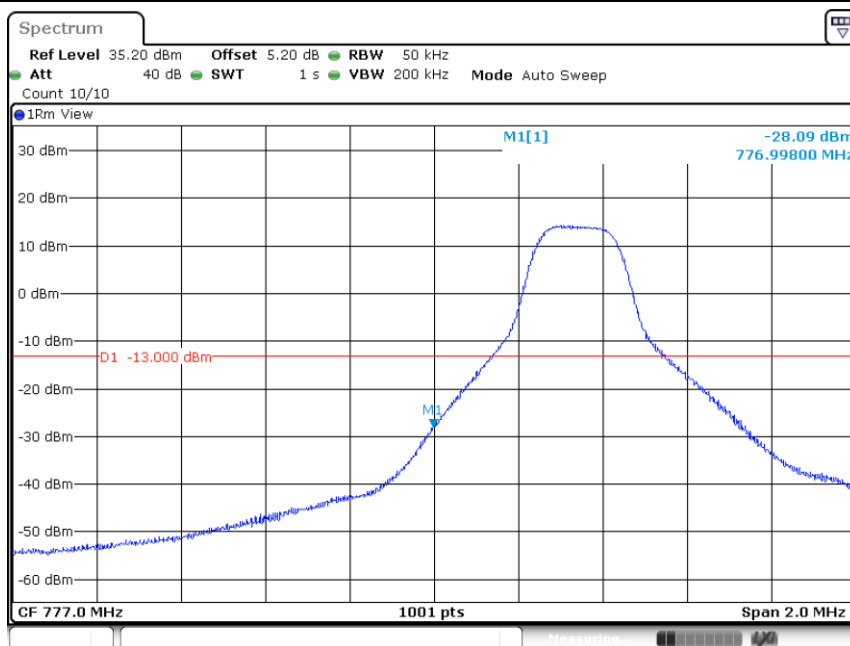


Band13-5MHz-64QAM-23255-25RB#0



Date: 14.JAN.2021 14:09:11

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



Date: 14.JAN.2021 13:54:16



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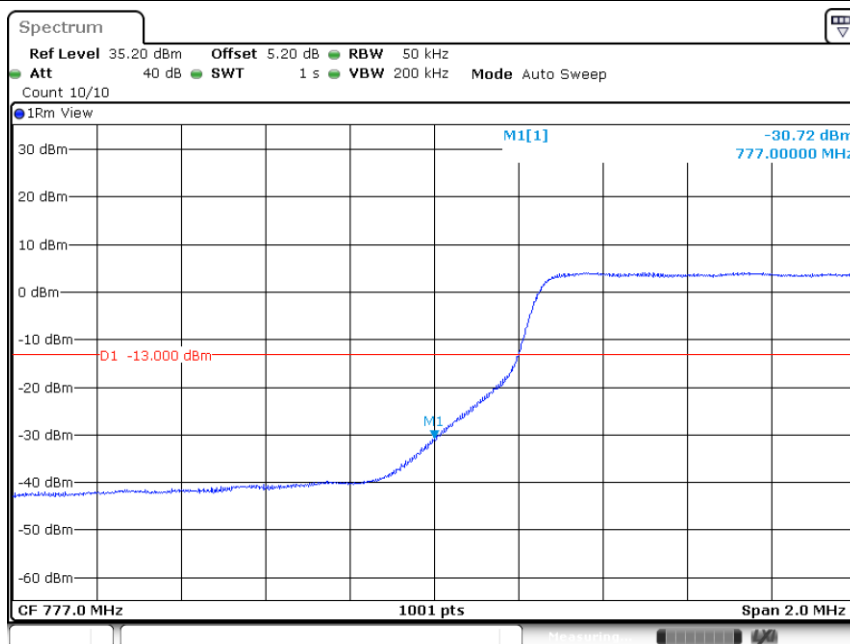
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Band13-5MHz-16QAM-23205-25RB#0



Date: 14.JAN.2021 13:55:21

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



Date: 14.JAN.2021 13:57:24



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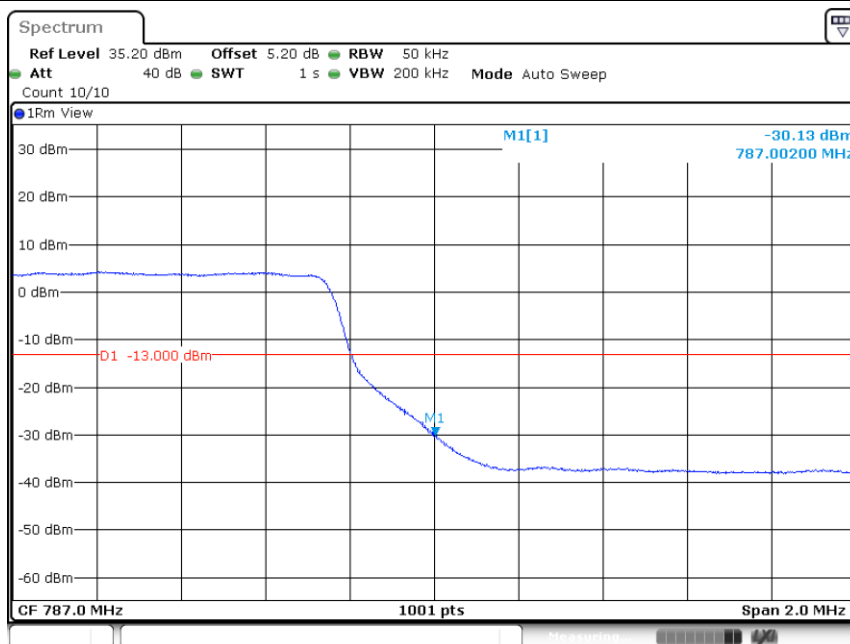
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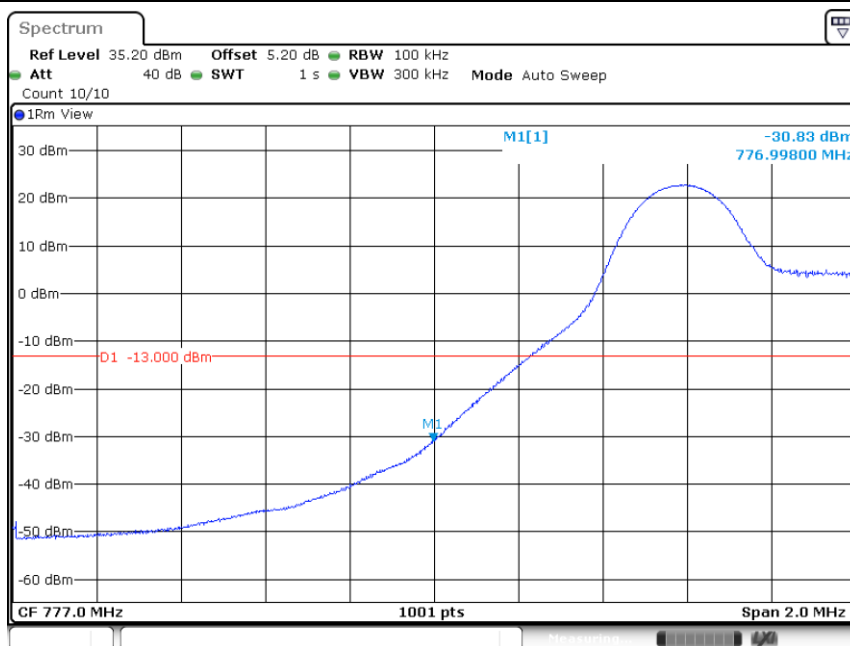


Band13-5MHz-16QAM-23255-25RB#0



Date: 14.JAN.2021 13:58:06

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



Date: 14.JAN.2021 13:58:48



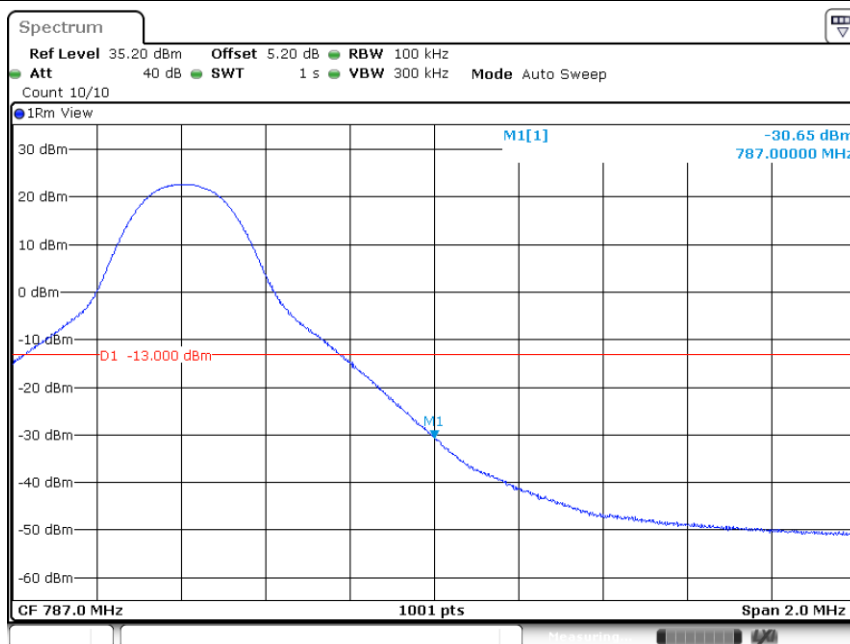
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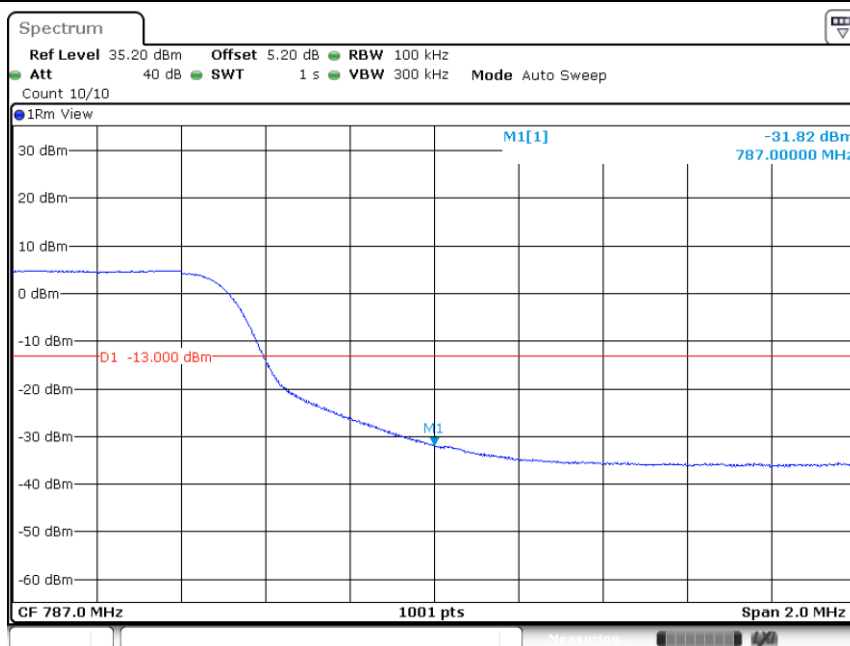


Band13-10MHz-QPSK-23230_Right-1RB#49



Date: 14.JAN.2021 14:02:17

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



Date: 14.JAN.2021 14:02:59



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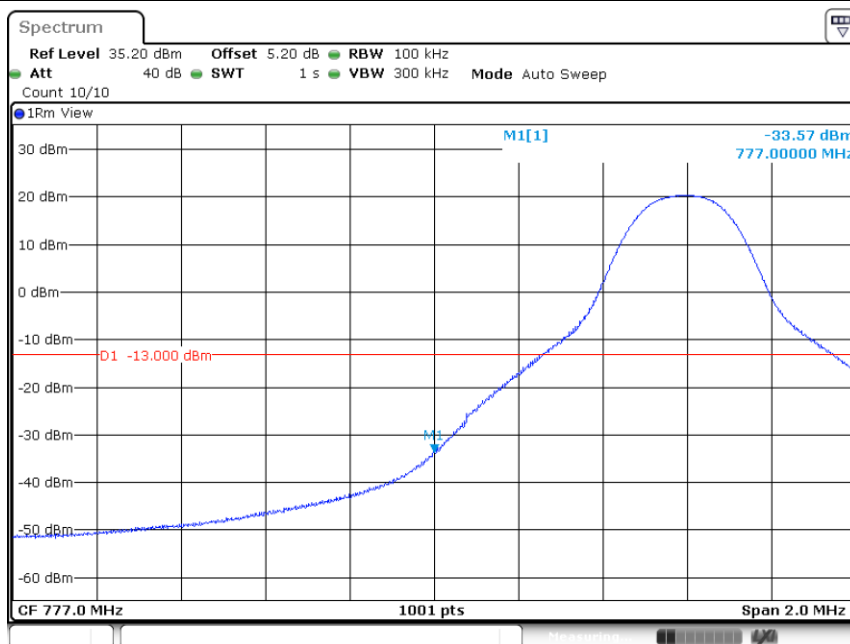
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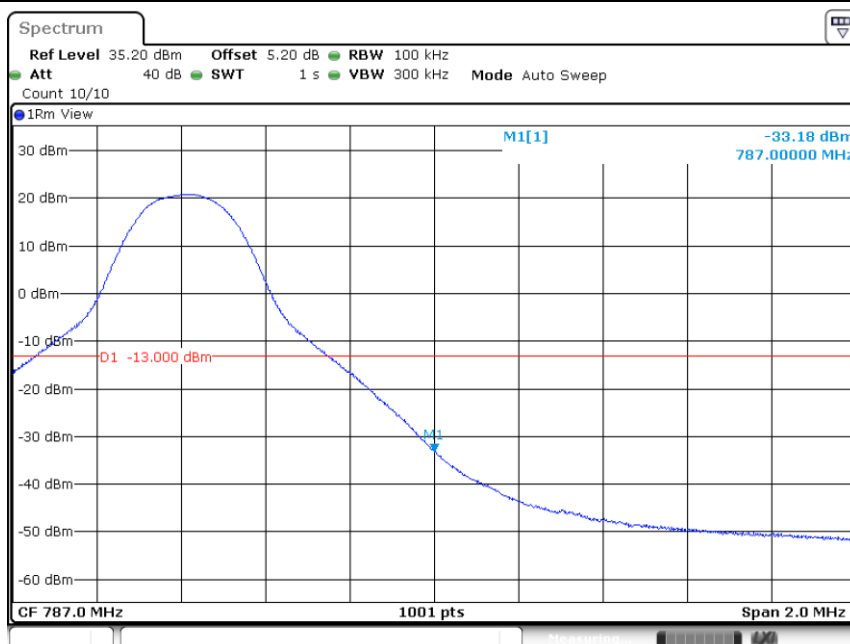


Band13-10MHz-64QAM-23230_Left-1RB#0



Date: 14.JAN.2021 14:09:38

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



Date: 14.JAN.2021 14:10:03



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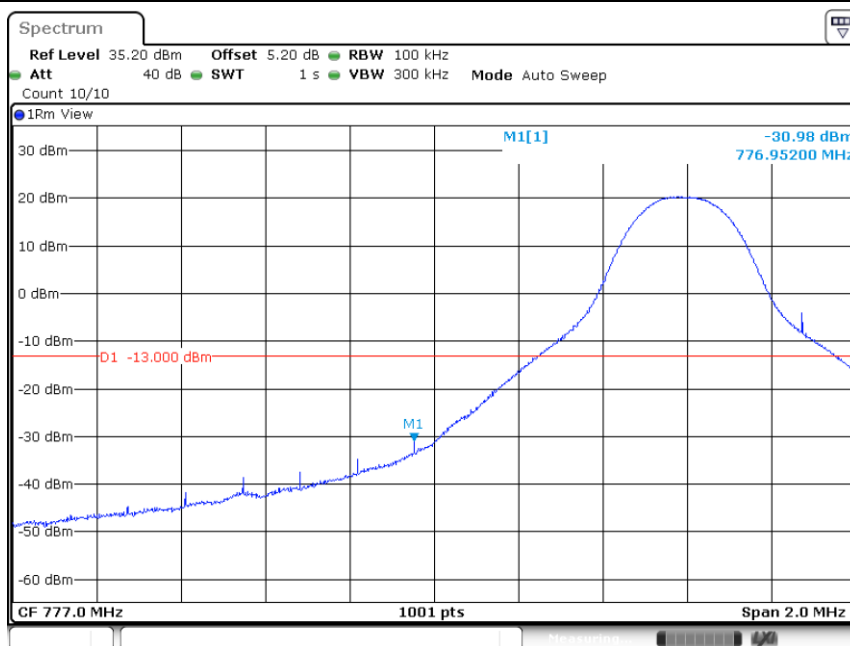


Band13-10MHz-64QAM-23230_Right-50RB#0



Date: 14.JAN.2021 14:13:02

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



Date: 14.JAN.2021 14:00:55

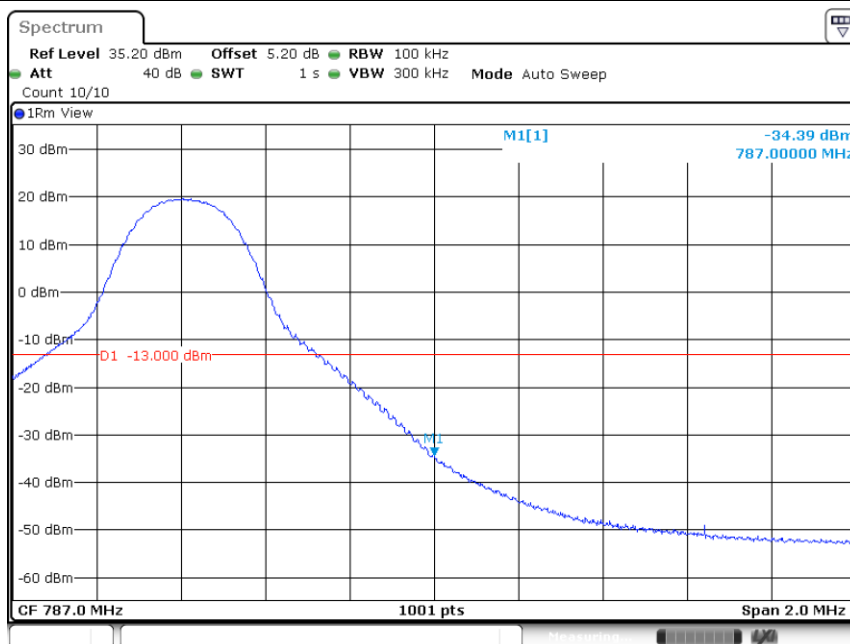


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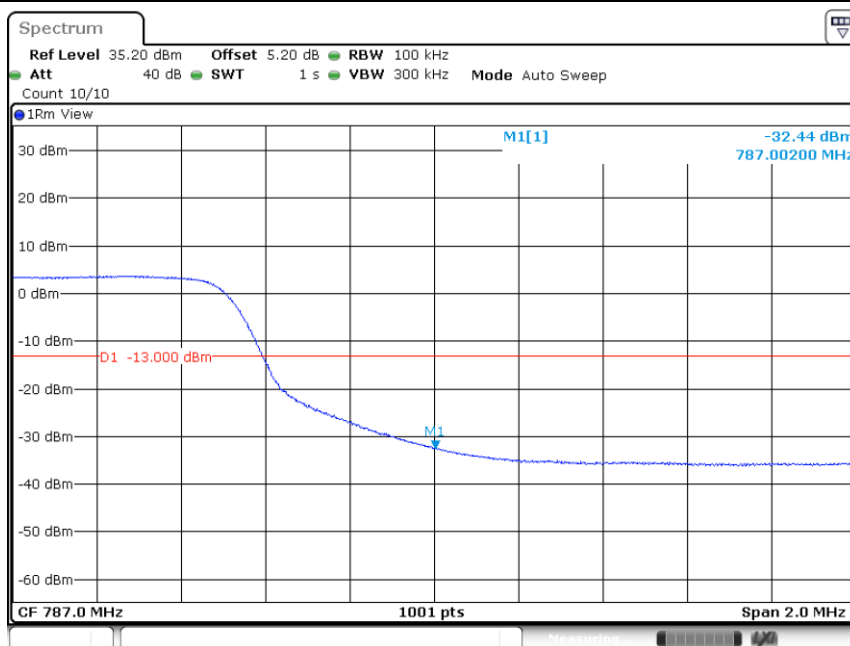


Band13-10MHz-16QAM-23230_Right-1RB#49



Date: 14.JAN.2021 14:02:38

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



Date: 14.JAN.2021 14:04:11



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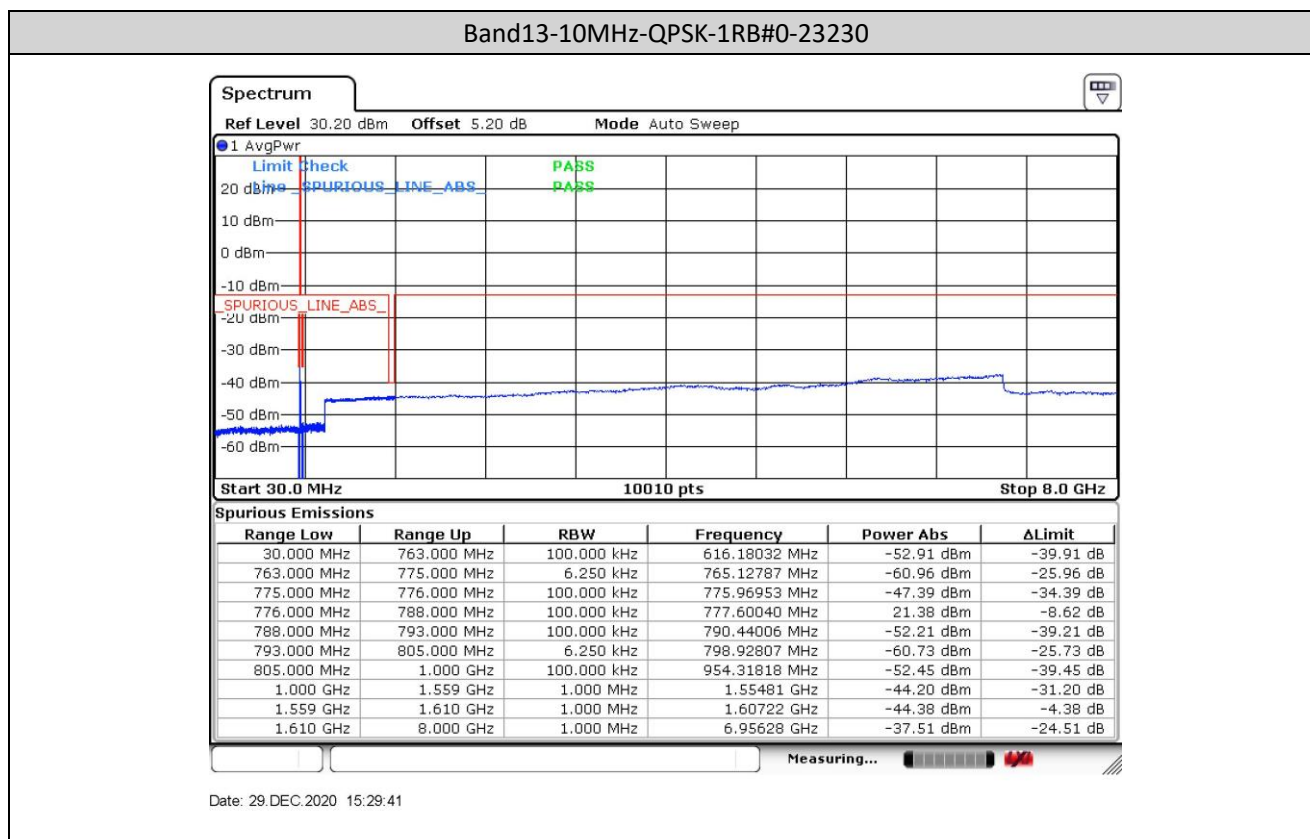
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6. Spurious Emission at Antenna Terminal

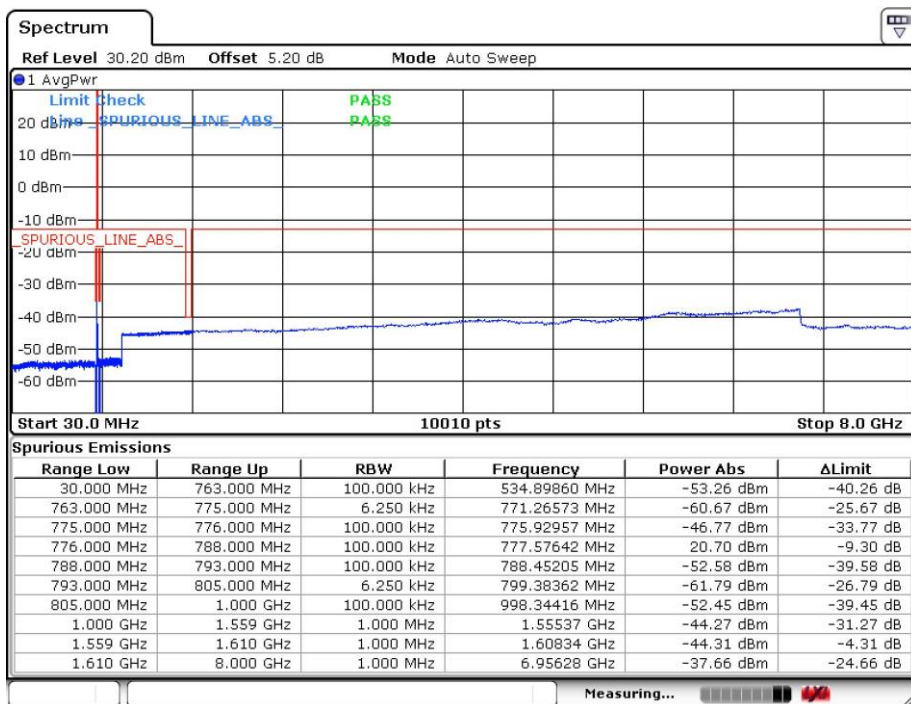
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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



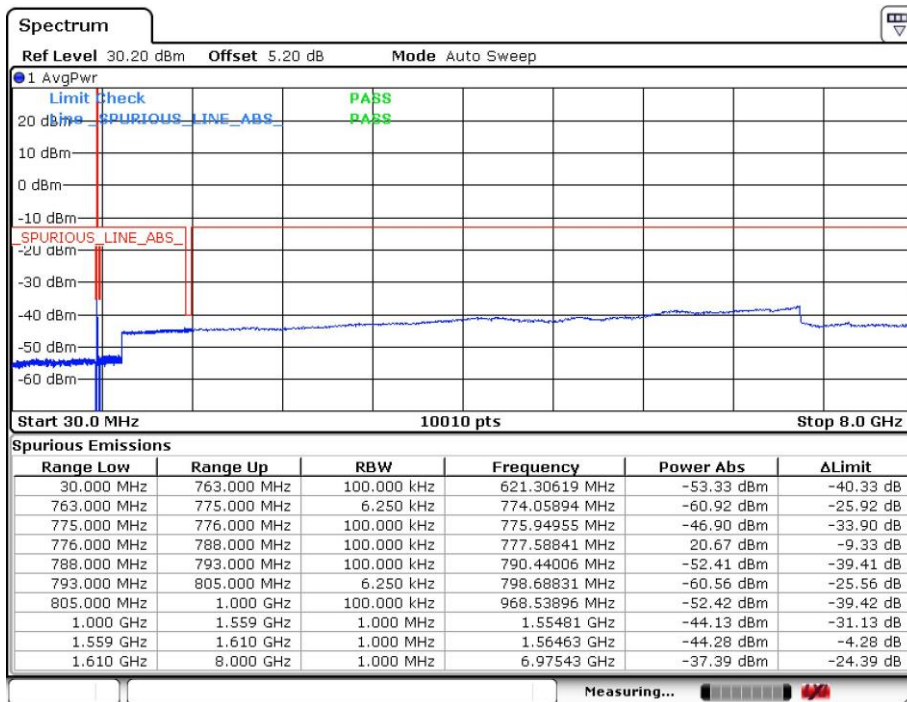
Band13-10MHz-16QAM-1RB#0-23230



Date: 29 DEC 2020 15:29:57



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



Date: 29 DEC 2020 15:30:08



7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_13_TM1 ANT1

7.1.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.9801	-73.46	-66.60	-13.00	53.60	Horizontal
2	66.1343	-73.57	-74.90	-13.00	61.90	Horizontal
3	232.2066	-73.51	-70.69	-13.00	57.69	Horizontal
4	1600.1200	-71.57	-67.04	-40.00	27.04	Horizontal
5	2424.2849	-66.45	-56.67	-13.00	43.67	Horizontal
6	7449.3780	-56.20	-56.23	-13.00	43.23	Horizontal



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7.2. Test Band = LTE_13_TM1 ANT1

7.2.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	37.0814	-70.14	-78.19	-13.00	65.19	Vertical
2	77.6779	-71.90	-70.42	-13.00	57.42	Vertical
3	109.7380	-73.33	-66.98	-13.00	53.98	Vertical
4	1619.7239	-71.18	-66.60	-13.00	53.60	Vertical
5	2481.4963	-57.85	-48.40	-13.00	35.40	Vertical
6	9328.8132	-57.98	-52.16	-13.00	39.16	Vertical



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7.3. Test Band = LTE_13_TM1 ANT4**7.3.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.1328	-73.56	-66.62	-13.00	53.62	Horizontal
2	237.9299	-74.20	-71.40	-13.00	58.40	Horizontal
3	1555.3111	-70.70	-66.61	-13.00	53.61	Horizontal
4	2703.5407	-71.21	-58.38	-13.00	45.38	Horizontal
5	7445.7378	-56.02	-56.05	-13.00	43.05	Horizontal
6	9312.2925	-57.90	-52.08	-13.00	39.08	Horizontal



7.4. Test Band = LTE_13_TM1 ANT4

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	77.7264	-72.18	-70.69	-13.00	57.69	Vertical
2	114.5882	-73.70	-67.69	-13.00	54.69	Vertical
3	1607.7215	-71.41	-66.87	-40.00	26.87	Vertical
4	2309.4619	-71.17	-61.03	-13.00	48.03	Vertical
5	7454.4182	-56.26	-55.96	-13.00	42.96	Vertical
6	9330.4932	-57.87	-52.06	-13.00	39.06	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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.70	0.002174	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	0.80	0.001023	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	1.40	0.001790	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VL	NT	2.70	0.003453	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	VN	NT	1.00	0.001279	±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	2.50	0.003197	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-3.50	-0.004476	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	3.20	0.004092	±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	2.60	0.003325	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-1.00	-0.001279	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-2.10	-0.002685	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-2.00	-0.002558	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	4.20	0.005371	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.70	0.000895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	3.00	0.003836	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-30	2.40	0.003069	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-20	4.60	0.005882	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	-10	-3.40	-0.004348	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	0	0.20	0.000256	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	10	1.90	0.002430	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	20	0.40	0.000512	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	30	1.70	0.002174	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	40	-4.30	-0.005499	±2.5	PASS
Band13	10MHz	64QAM	23230	50RB#0	NV	50	0.80	0.001023	±2.5	PASS



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Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-0.20	-0.000256	±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	-2.30	-0.002941	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-1.10	-0.001407	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	0.30	0.000384	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	2.00	0.002558	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-0.80	-0.001023	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	3.00	0.003836	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-4.60	-0.005882	±2.5	PASS



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