



Appendix B

E-UTRA Band 5





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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
Band5	1.4MHz	QPSK	20407	1RB#0	21.64	17.62	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	21.66	17.64	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.64	17.62	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	21.68	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	21.84	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	21.70	17.68	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	20.83	16.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.64	17.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.74	17.72	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.71	17.69	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.91	17.89	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.78	17.76	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.82	17.80	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.78	16.76	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.85	17.83	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.77	17.75	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.67	17.65	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.78	17.76	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.74	17.72	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.83	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.00	16.98	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	20.71	16.69	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.07	17.05	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.97	16.95	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	20.71	16.69	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	20.64	16.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	20.75	16.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	19.80	15.78	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.91	16.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.17	17.15	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.89	16.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.70	16.68	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.77	16.75	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.67	16.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	19.80	15.78	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.01	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.34	17.32	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.08	17.06	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	20.89	16.87	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.75	16.73	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.86	16.84	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	19.98	15.96	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.69	17.67	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	21.77	17.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.77	17.75	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	20.70	16.68	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	20.68	16.66	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	20.73	16.71	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	20.83	16.81	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.79	17.77	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.03	18.01	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.87	17.85	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	20.75	16.73	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	20.82	16.80	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	20.72	16.70	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	20.89	16.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.68	17.66	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.82	17.80	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.84	17.82	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	20.80	16.78	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	20.88	16.86	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.77	16.75	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.84	16.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	20.95	16.93	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	20.90	16.88	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.51	17.49	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	19.81	15.79	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	19.97	15.95	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	19.88	15.86	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	19.69	15.67	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.53	17.51	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.28	17.26	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.80	16.78	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	19.99	15.97	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	19.89	15.87	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	19.72	15.70	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	19.85	15.83	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.02	17.00	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.07	17.05	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.51	17.49	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	19.92	15.90	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	19.90	15.88	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	19.97	15.95	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	19.79	15.77	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	21.51	17.49	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#12	21.75	17.73	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	21.83	17.81	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	20.83	16.81	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	20.90	16.88	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	20.84	16.82	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	20.77	16.75	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.70	17.68	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.65	17.63	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.59	17.57	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	20.88	16.86	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	20.92	16.90	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	20.85	16.83	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	20.84	16.82	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.56	17.54	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.76	17.74	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.79	17.77	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	20.82	16.80	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	20.84	16.82	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	20.75	16.73	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	20.75	16.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.08	17.06	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.16	17.14	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.22	17.20	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	19.68	15.66	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	19.95	15.93	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	19.75	15.73	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	19.72	15.70	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	20.83	16.81	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.30	17.28	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.80	16.78	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	19.86	15.84	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	19.90	15.88	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	19.80	15.78	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	19.78	15.76	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.13	17.11	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	20.96	16.94	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	20.88	16.86	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	19.72	15.70	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	19.82	15.80	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	19.66	15.64	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	19.69	15.67	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	21.72	17.70	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	21.86	17.84	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.88	17.86	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	20.85	16.83	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	20.82	16.80	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	20.83	16.81	38.45	PASS



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Band5	10MHz	QPSK	20450	50RB#0	20.95	16.93	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.83	17.81	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.69	17.67	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.93	17.91	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	20.89	16.87	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	20.84	16.82	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	20.82	16.80	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	20.94	16.92	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.75	17.73	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.61	17.59	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.90	17.88	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	20.87	16.85	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	20.76	16.74	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	20.74	16.72	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.98	16.96	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.30	17.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.21	17.19	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.26	17.24	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	19.88	15.86	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	19.94	15.92	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	19.86	15.84	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	19.88	15.86	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	20.61	16.59	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.33	17.31	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.11	17.09	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	19.72	15.70	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	19.85	15.83	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	19.81	15.79	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	19.90	15.88	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	20.75	16.73	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.18	17.16	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	20.88	16.86	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	19.84	15.82	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	19.77	15.75	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	19.67	15.65	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	19.91	15.89	38.45	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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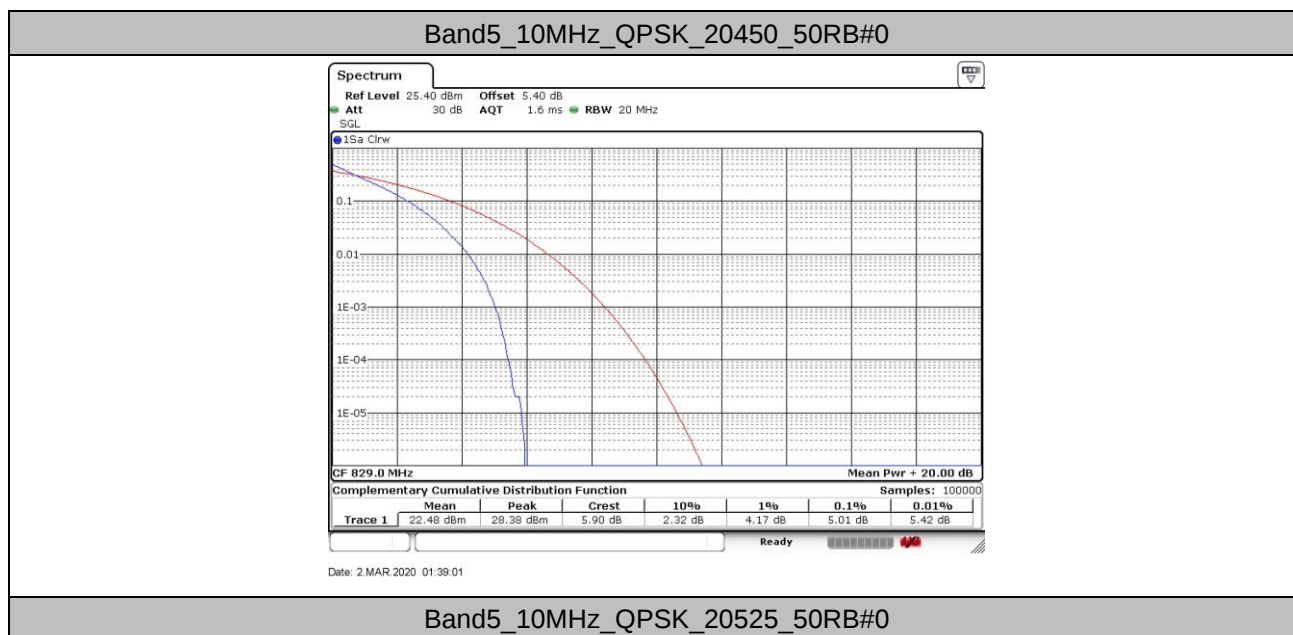
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

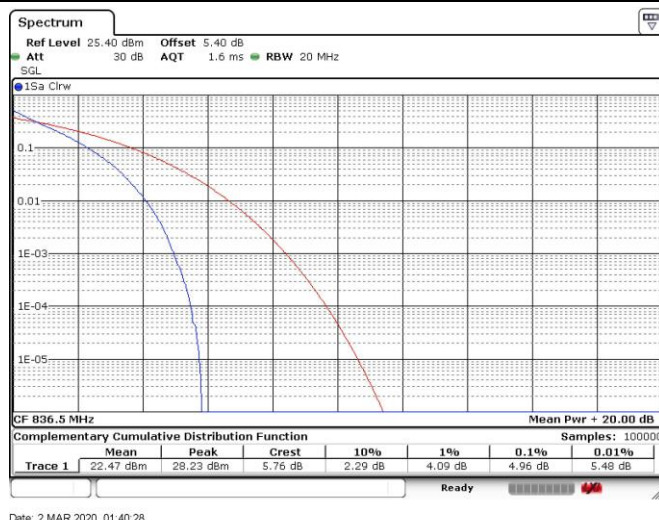
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

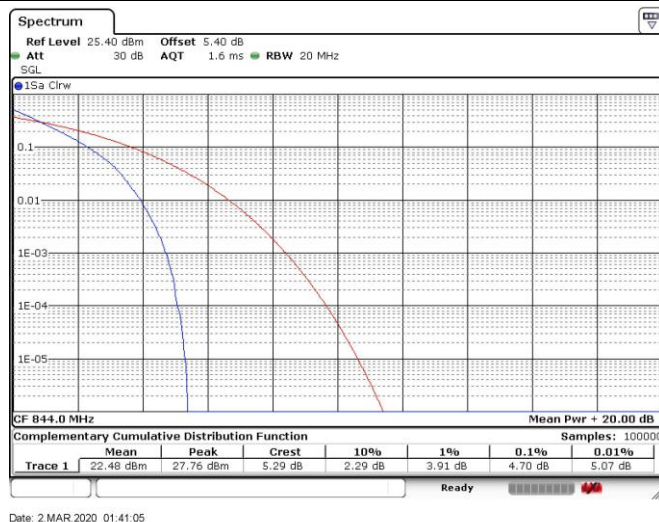
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.01	13.00	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.96	13.00	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.70	13.00	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.80	13.00	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.74	13.00	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.57	13.00	PASS

2.2. Test Plots



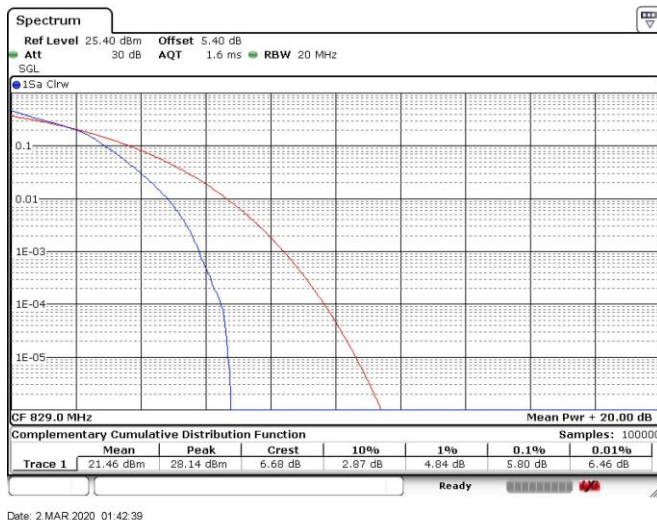


Band5_10MHz_QPSK_20600_50RB#0

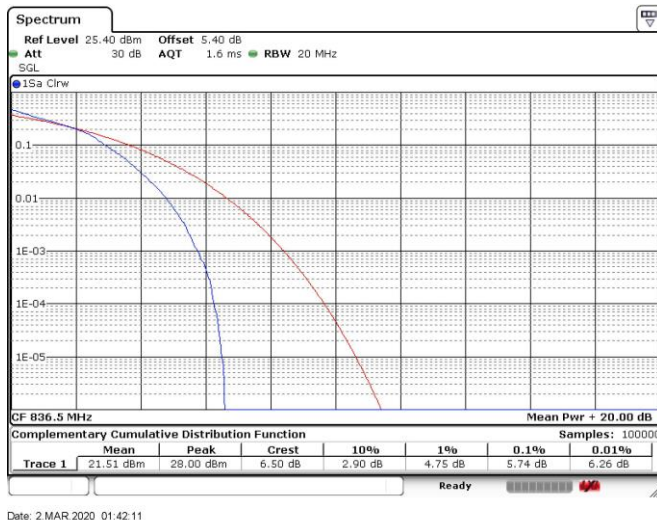


Band5_10MHz_16QAM_20450_50RB#0



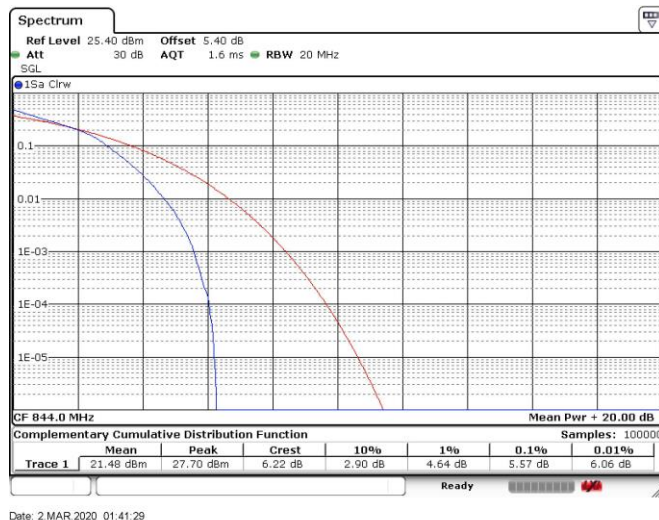


Band5_10MHz_16QAM_20525_50RB#0



Band5_10MHz_16QAM_20600_50RB#0





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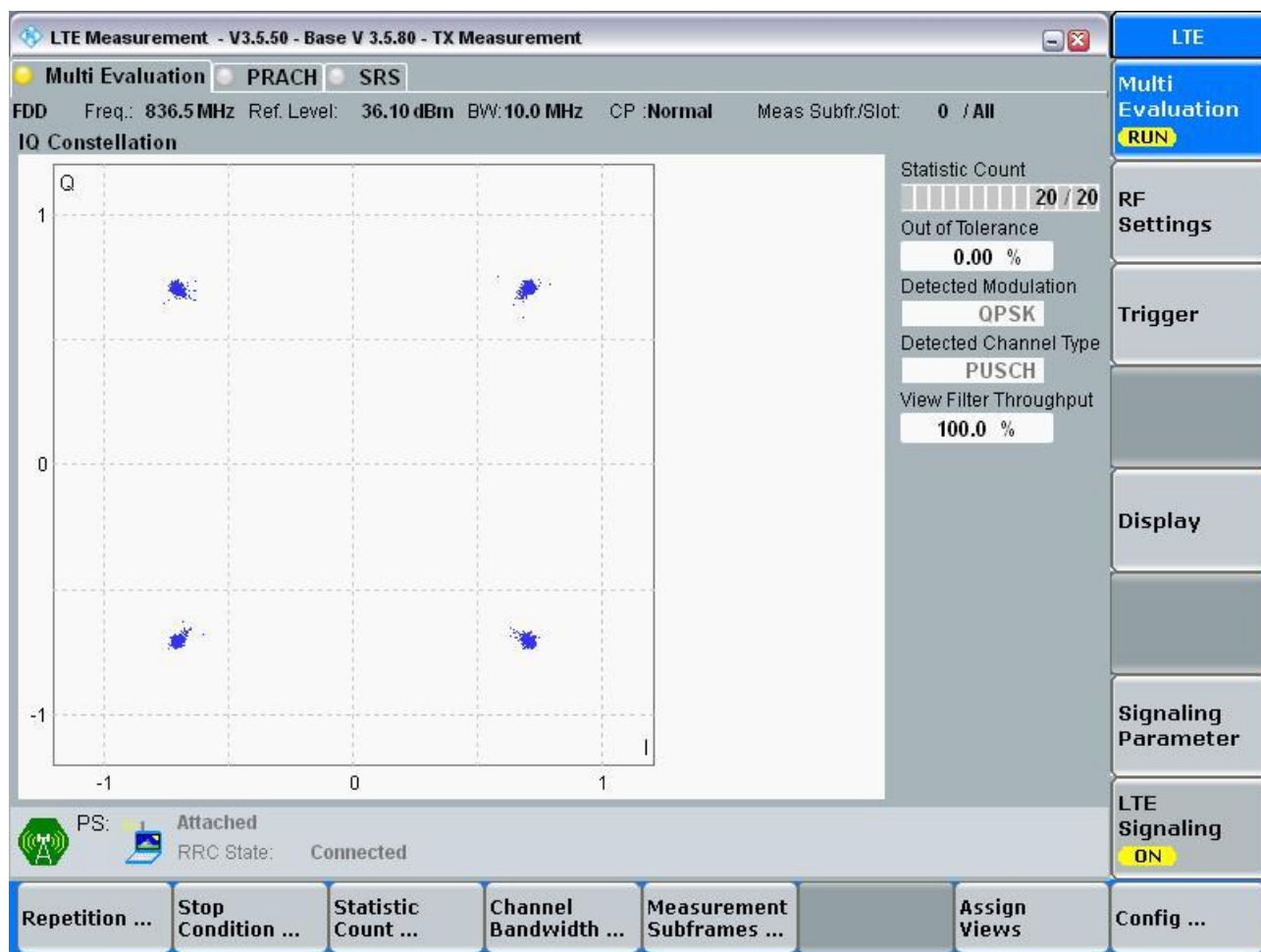
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3. Modulation Characteristics

3.1. Test Band = LTE Band 5

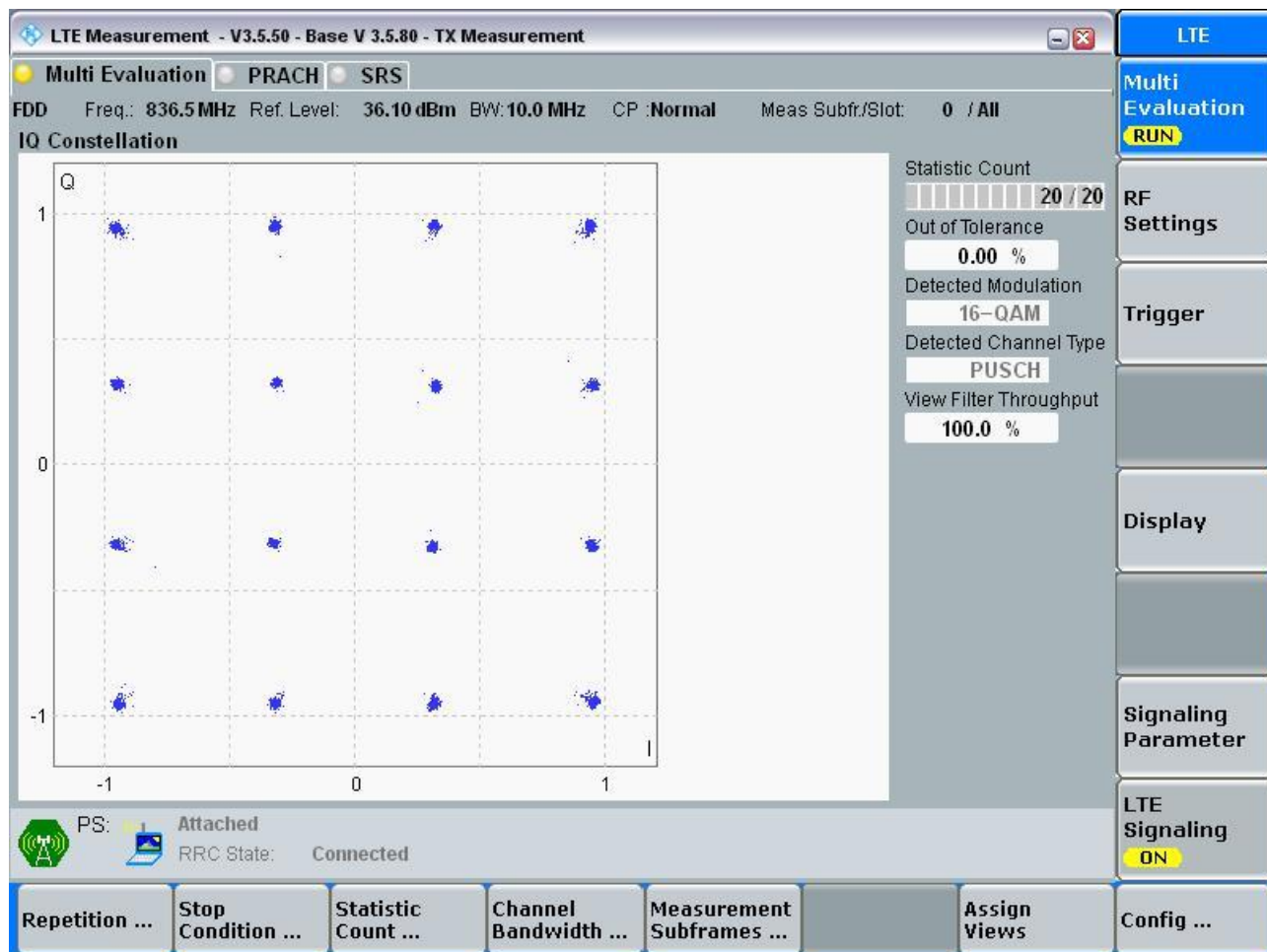
3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM2 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

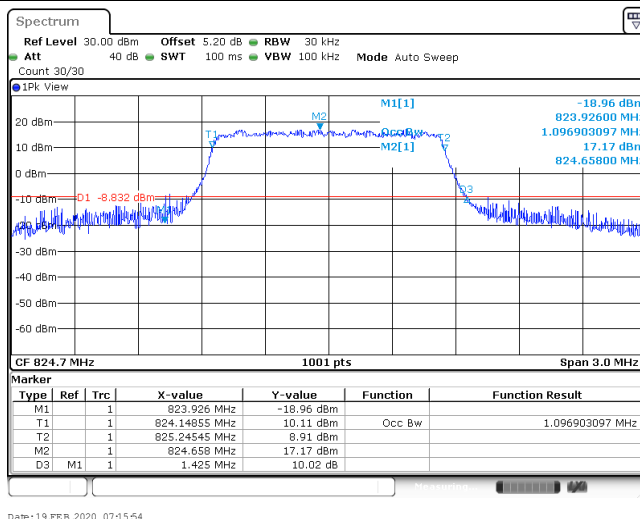
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.097	1.425	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.097	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.100	1.311	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.094	1.293	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.097	1.287	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.685	2.916	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.679	2.910	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.898	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.679	2.916	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.910	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.916	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.880	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.870	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.870	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.860	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.850	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.800	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.640	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.600	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.600	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.600	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.580	PASS

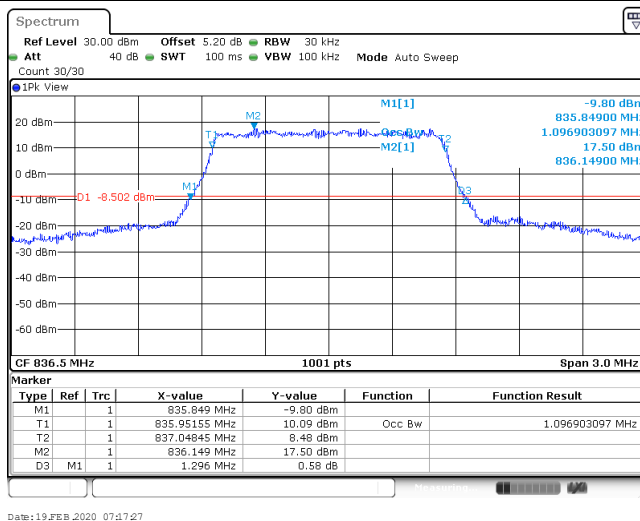


4.2. Test Plots

Band5_1.4MHz_QPSK_20407_6RB#0

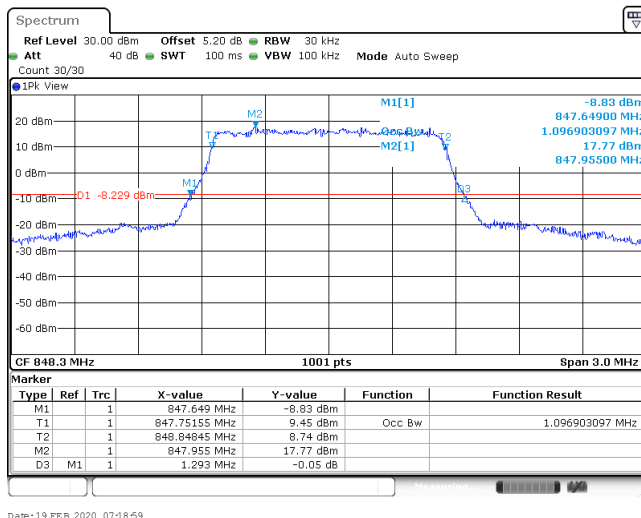


Band5_1.4MHz_QPSK_20525_6RB#0

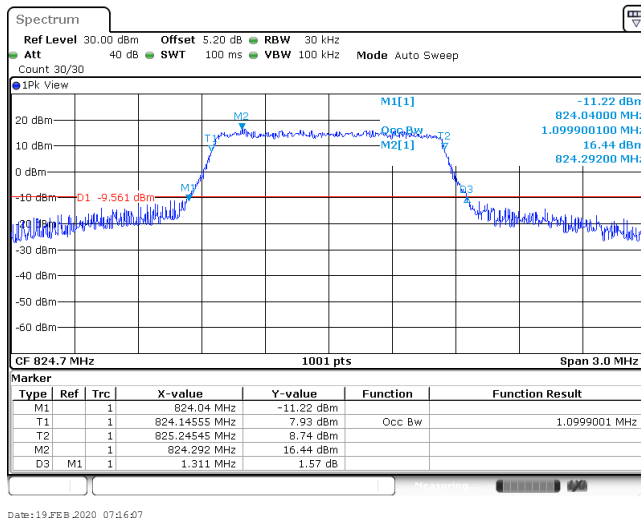


Band5_1.4MHz_QPSK_20643_6RB#0



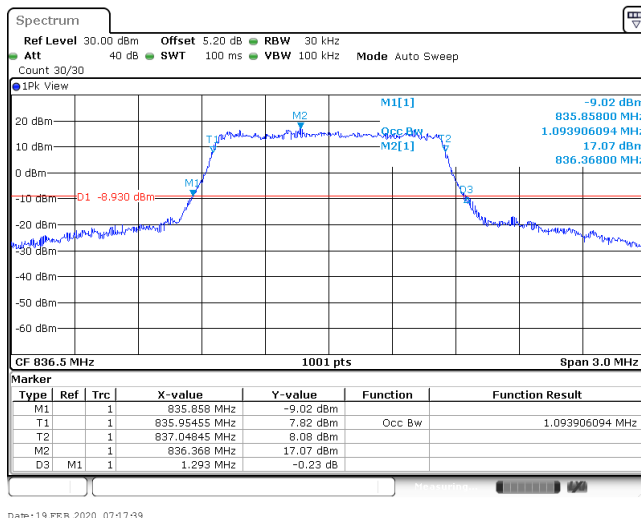


Band5_1.4MHz_16QAM_20407_6RB#0

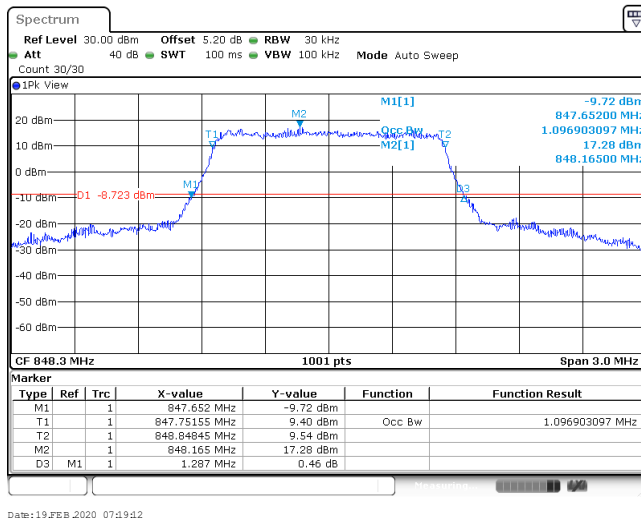


Band5_1.4MHz_16QAM_20525_6RB#0



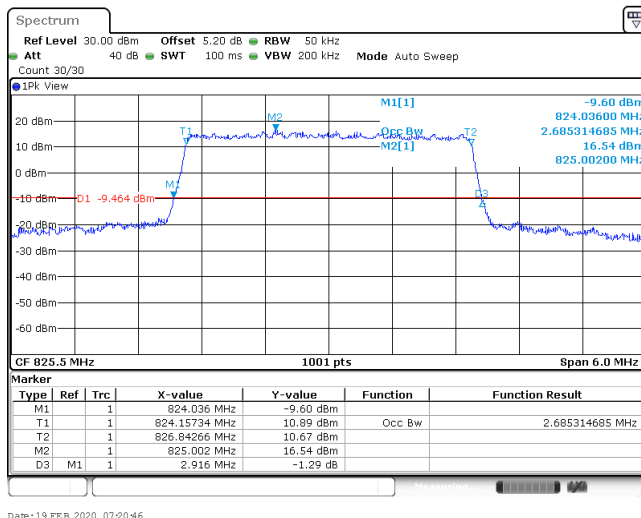


Band5_1.4MHz_16QAM_20643_6RB#0

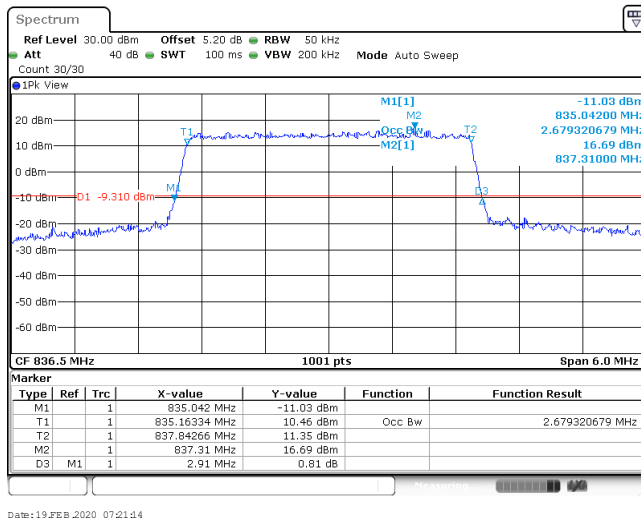


Band5_3MHz_QPSK_20415_15RB#0



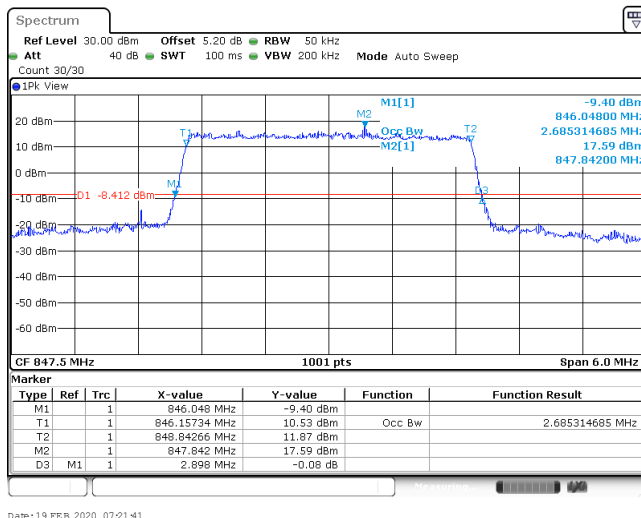


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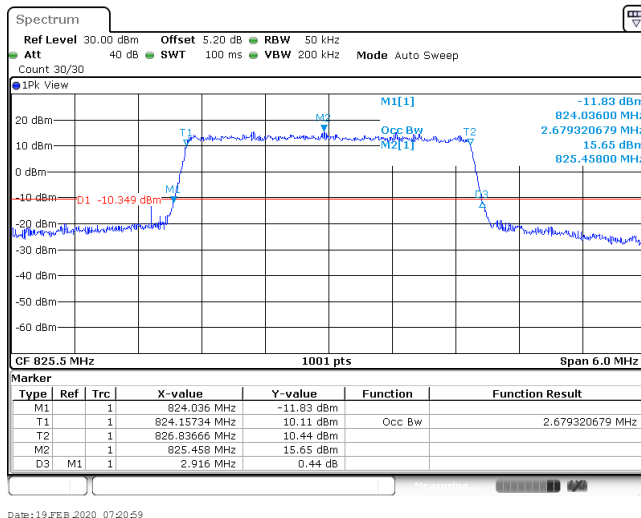


Band5_3MHz_QPSK_20635_15RB#0



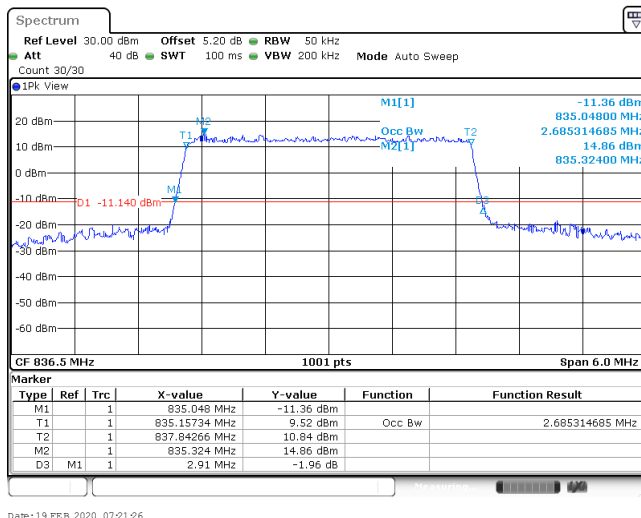


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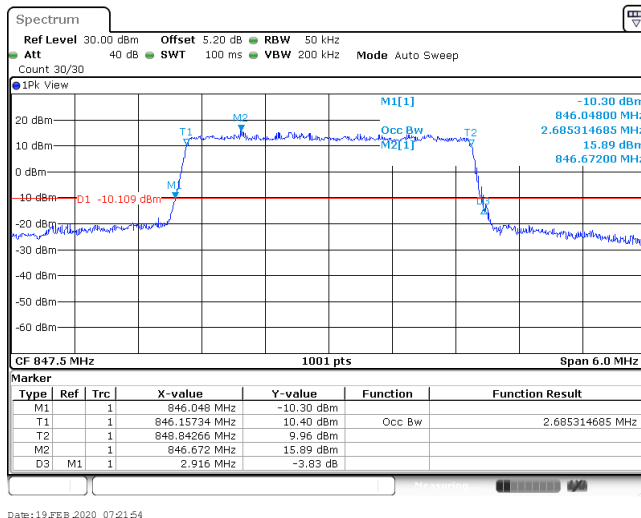


Band5_3MHz_16QAM_20525_15RB#0



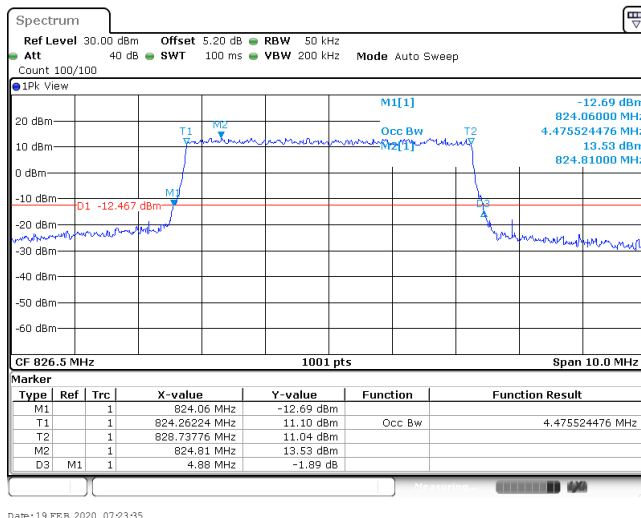


Band5_3MHz_16QAM_20635_15RB#0

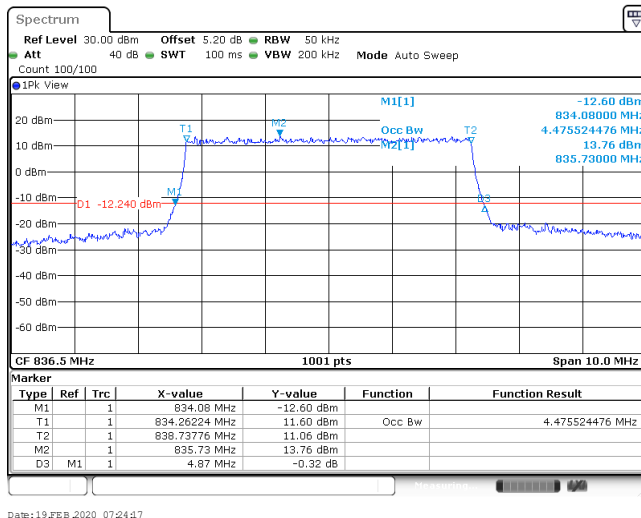


Band5_5MHz_QPSK_20425_25RB#0



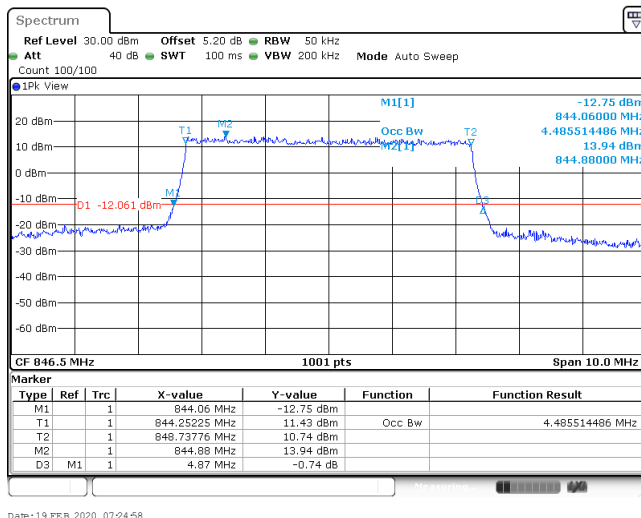


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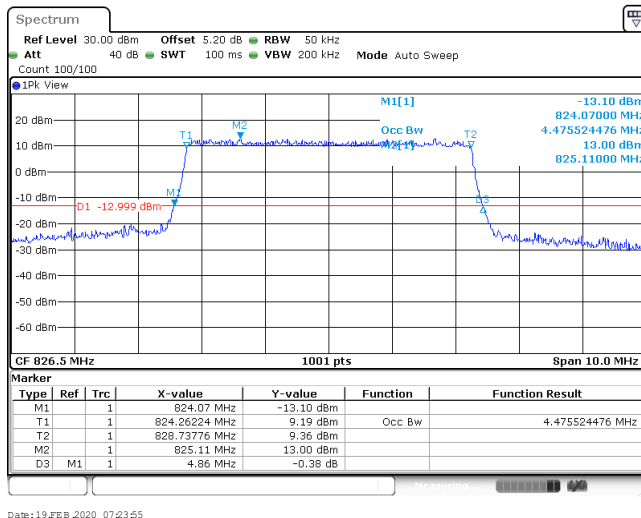


Band5_5MHz_QPSK_20625_25RB#0



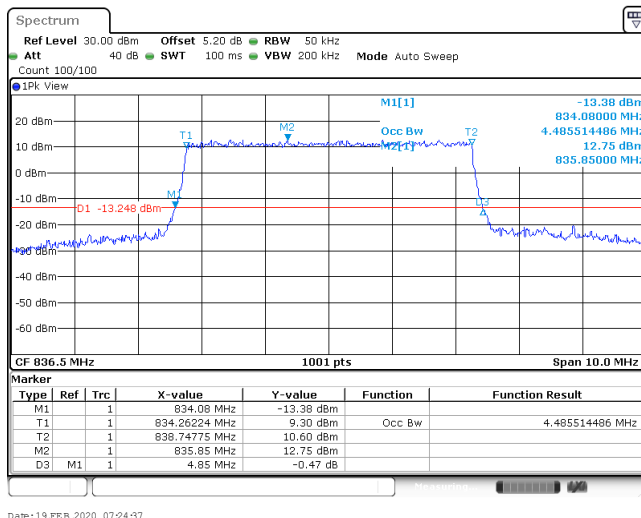


Band5_5MHz_16QAM_20425_25RB#0

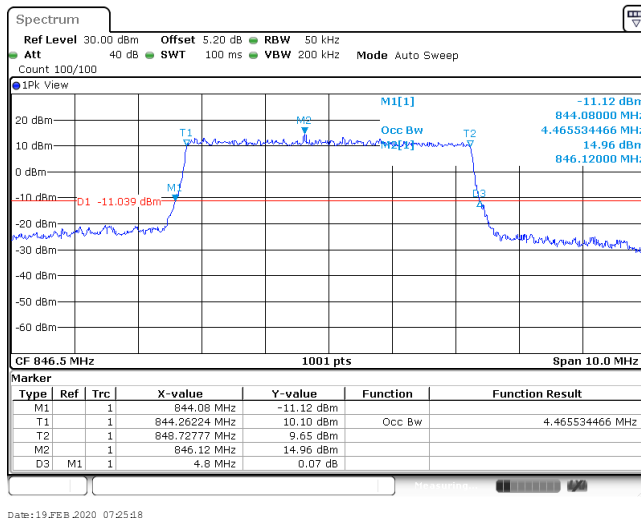


Band5_5MHz_16QAM_20525_25RB#0



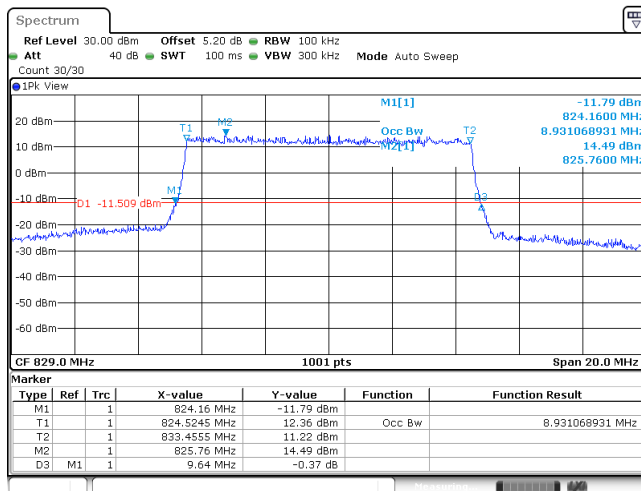


Band5_5MHz_16QAM_20625_25RB#0



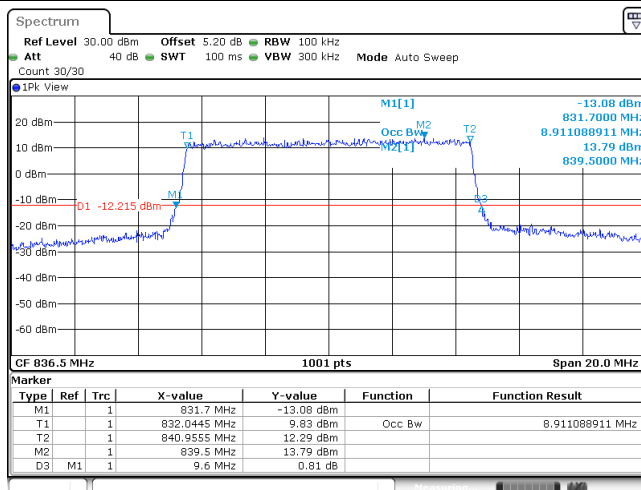
Band5_10MHz_QPSK_20450_50RB#0





Date: 19 FEB 2020 07:26:53

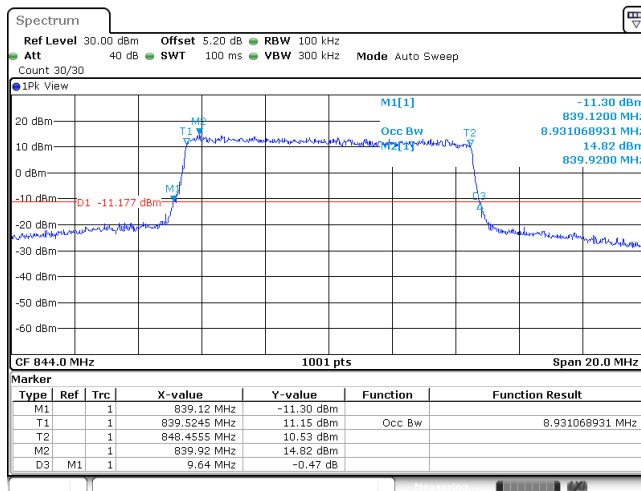
Band5_10MHz_QPSK_20525_50RB#0



Date: 19 FEB 2020 07:27:21

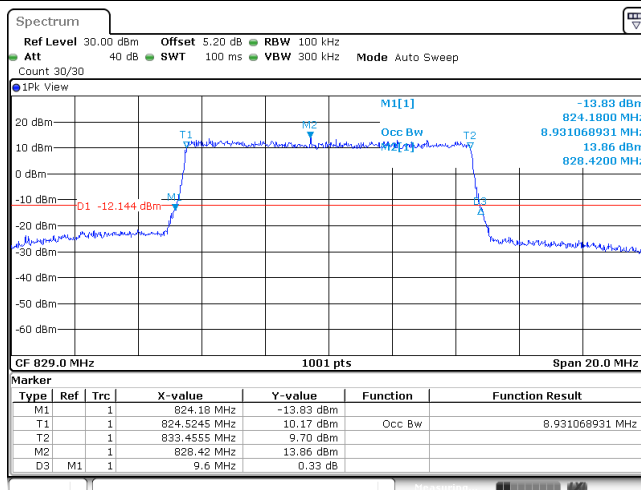
Band5_10MHz_QPSK_20600_50RB#0





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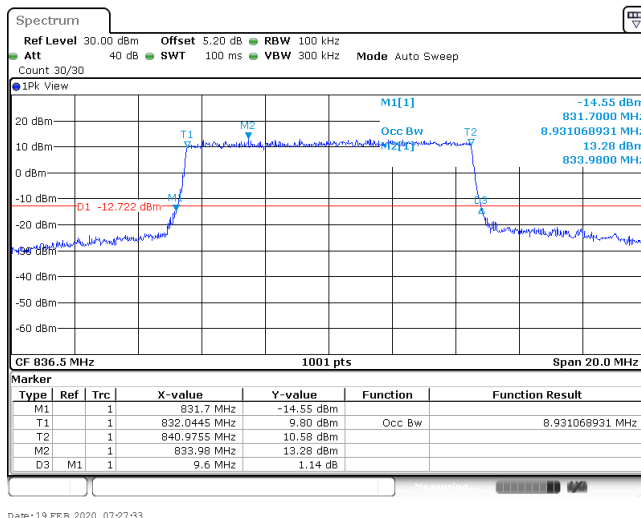
Band5_10MHz_16QAM_20450_50RB#0



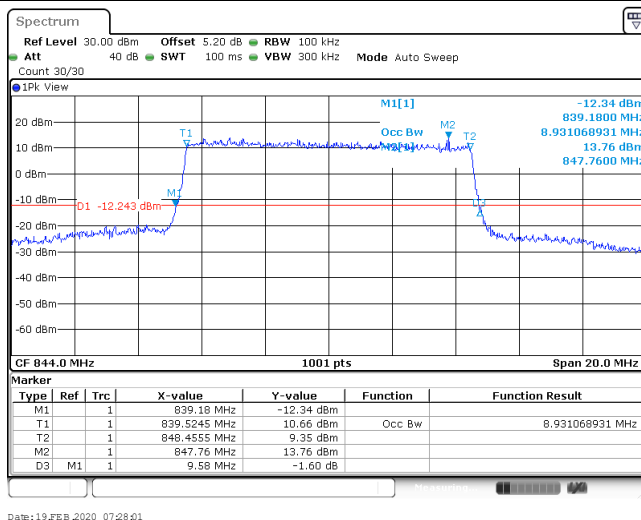
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Band5_10MHz_16QAM_20525_50RB#0





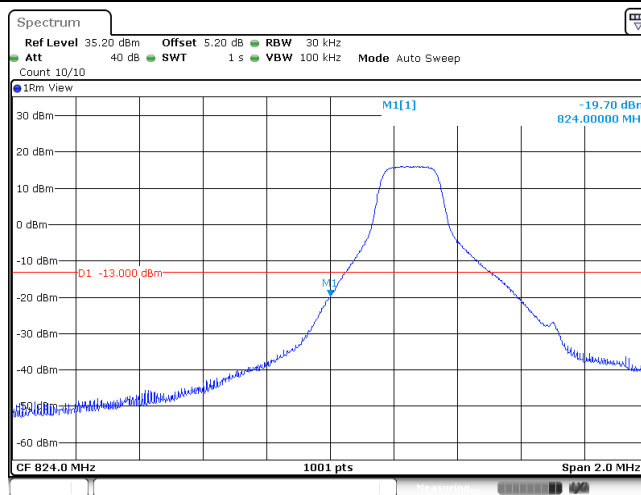
Band5_10MHz_16QAM_20600_50RB#0



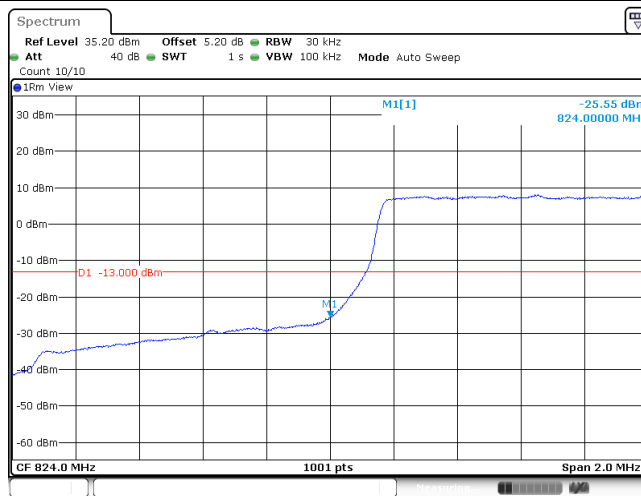
5. Band Edge Compliance

5.1. Test Plots

Band5_1.4MHz_QPSK_20407_1RB#0



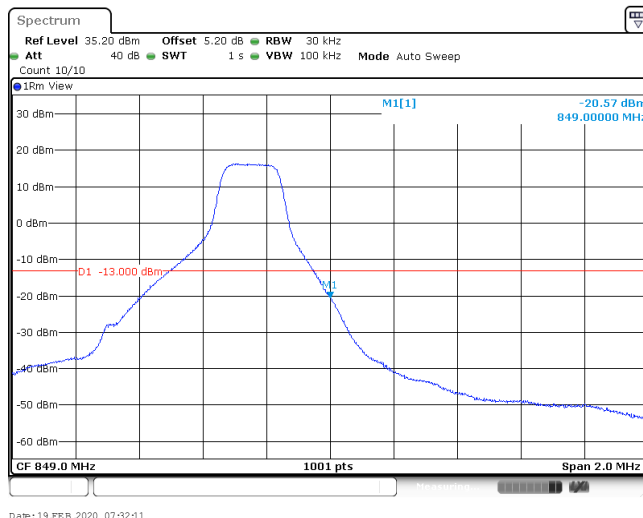
Band5_1.4MHz_QPSK_20407_6RB#0



Band5_1.4MHz_QPSK_20643_1RB#5



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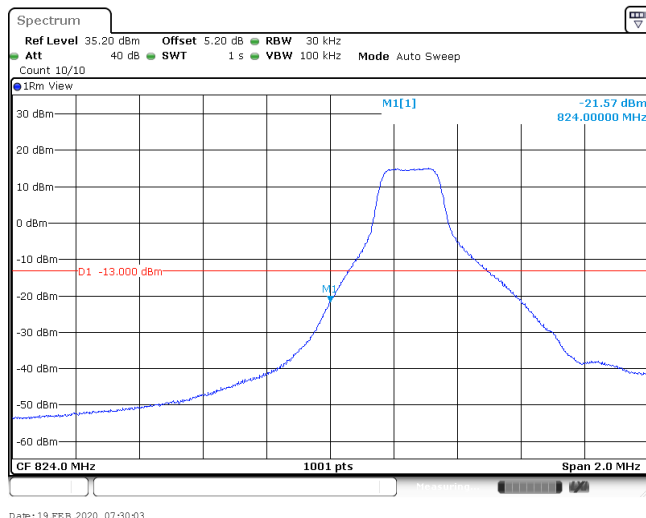


Band5_1.4MHz_QPSK_20643_6RB#0

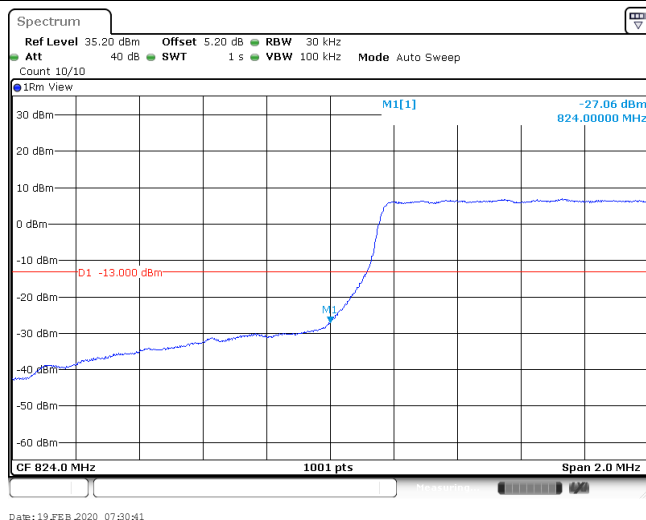


Band5_1.4MHz_16QAM_20407_1RB#0



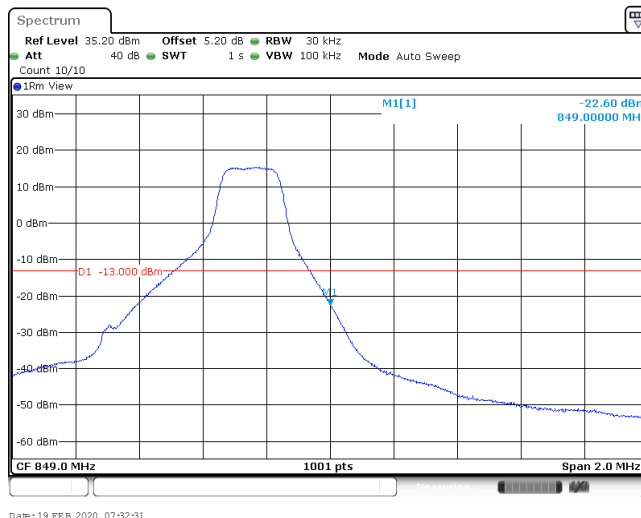


Band5_1.4MHz_16QAM_20407_6RB#0



Band5_1.4MHz_16QAM_20643_1RB#5





Band5_1.4MHz_16QAM_20643_6RB#0

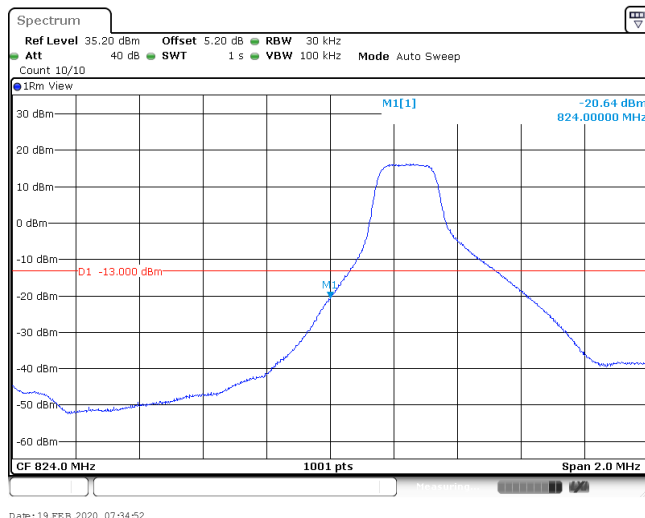


Band5_3MHz_QPSK_20415_1RB#0

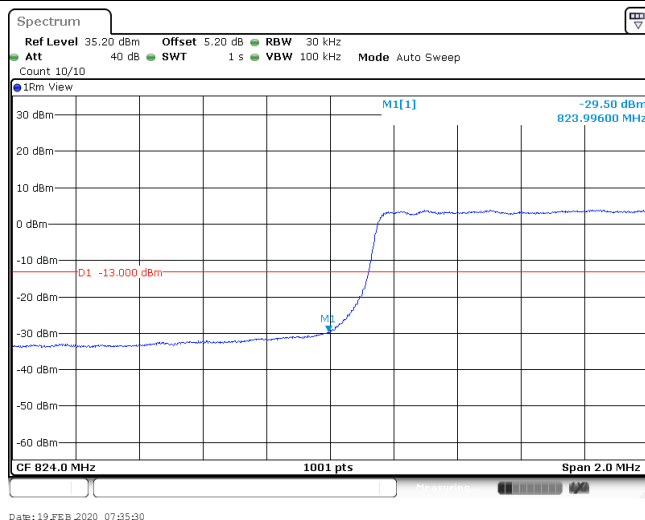


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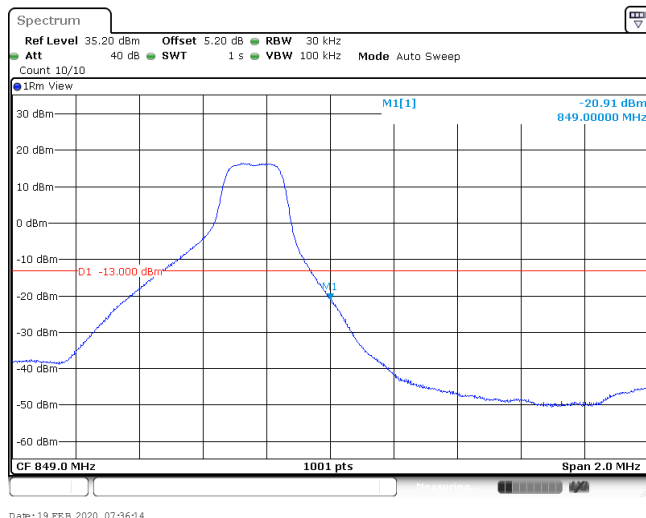


Band5_3MHz_QPSK_20415_15RB#0

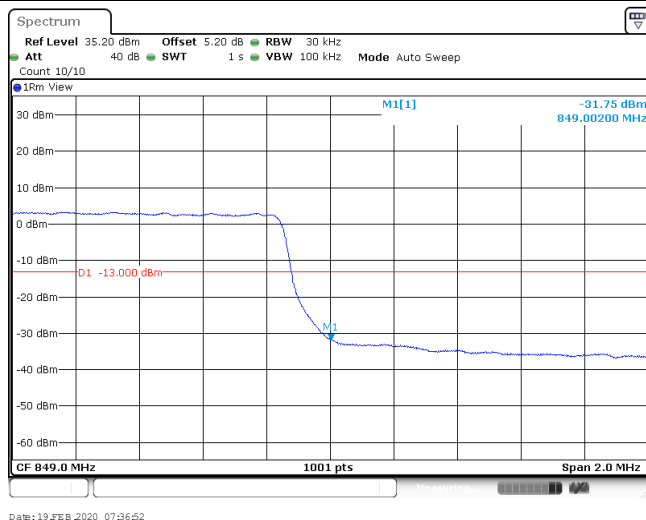


Band5_3MHz_QPSK_20635_1RB#14



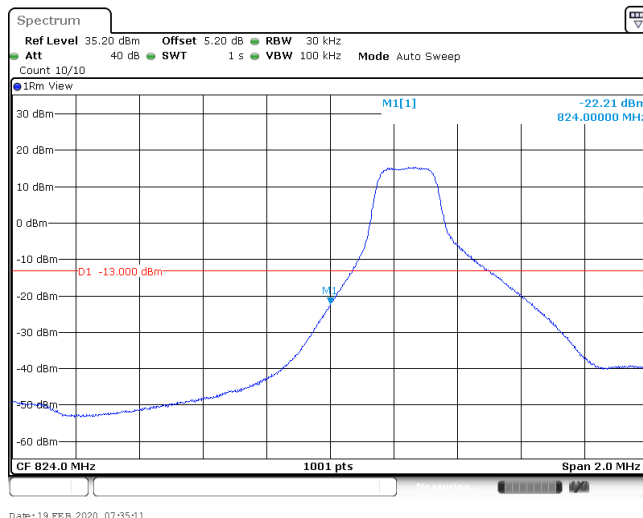


Band5_3MHz_QPSK_20635_15RB#0

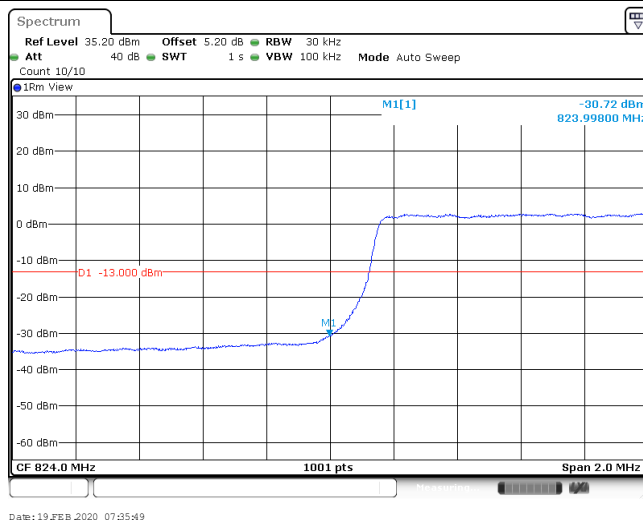


Band5_3MHz_16QAM_20415_1RB#0



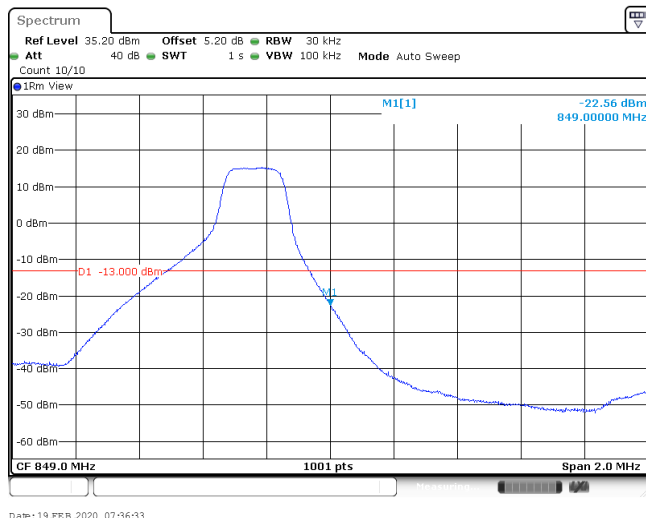


Band5_3MHz_16QAM_20415_15RB#0

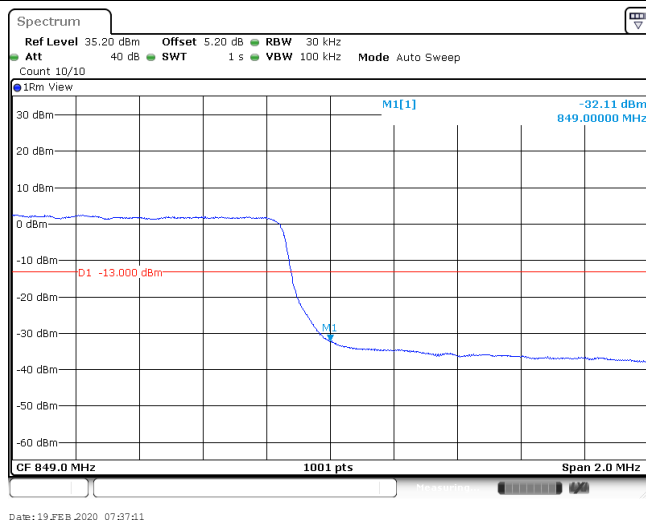


Band5_3MHz_16QAM_20635_1RB#14





Band5_3MHz_16QAM_20635_15RB#0

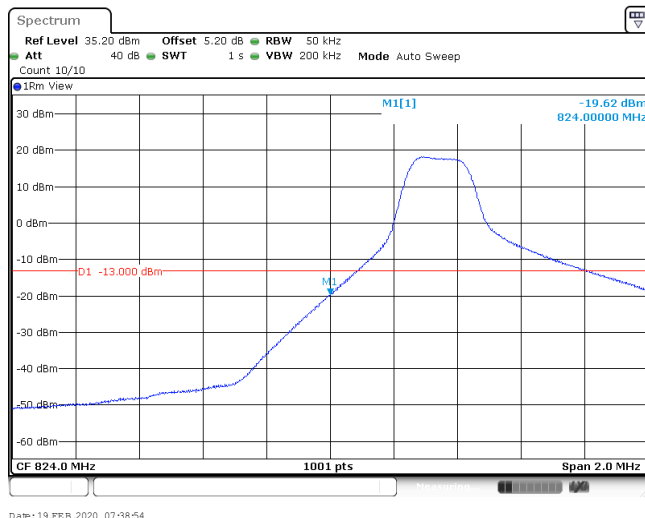


Band5_5MHz_QPSK_20425_1RB#0

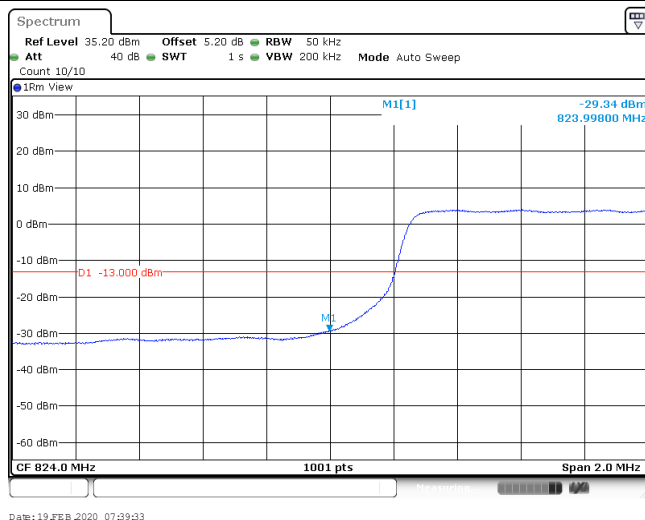


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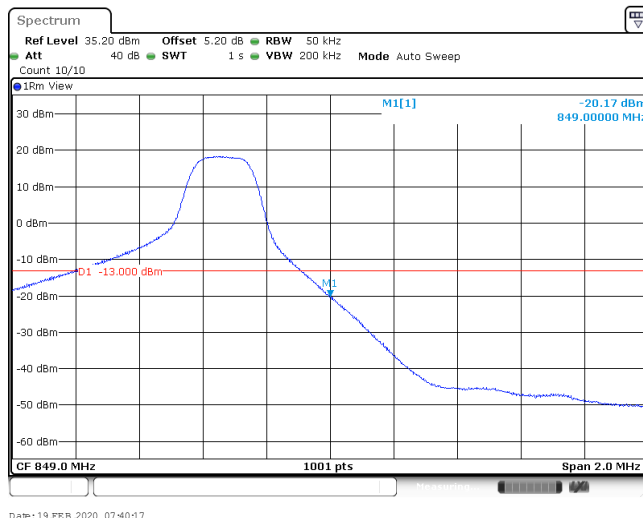


Band5_5MHz_QPSK_20425_25RB#0

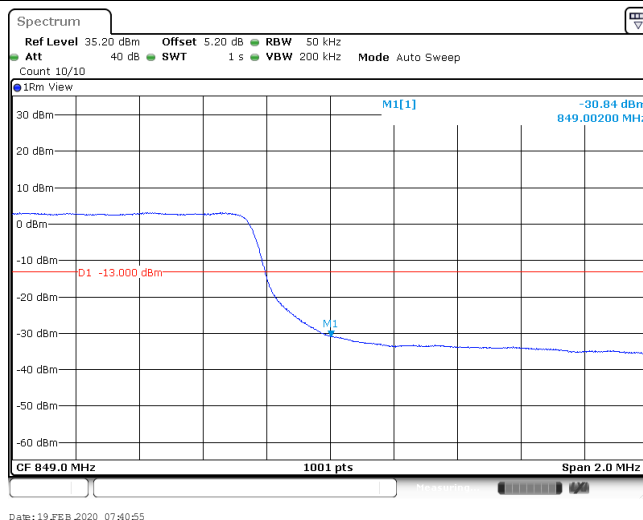


Band5_5MHz_QPSK_20625_1RB#24



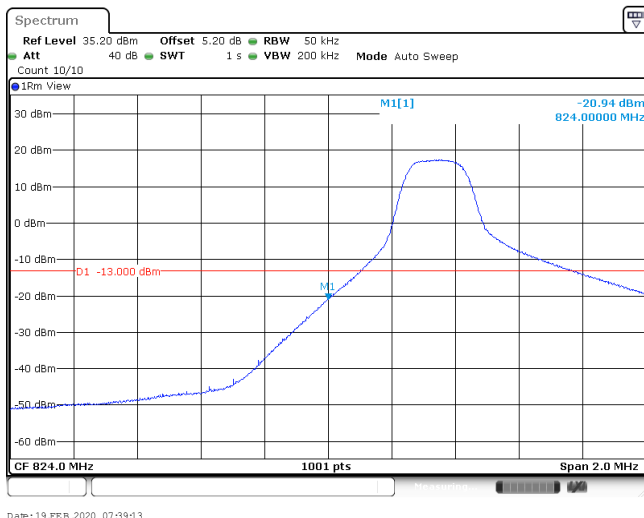


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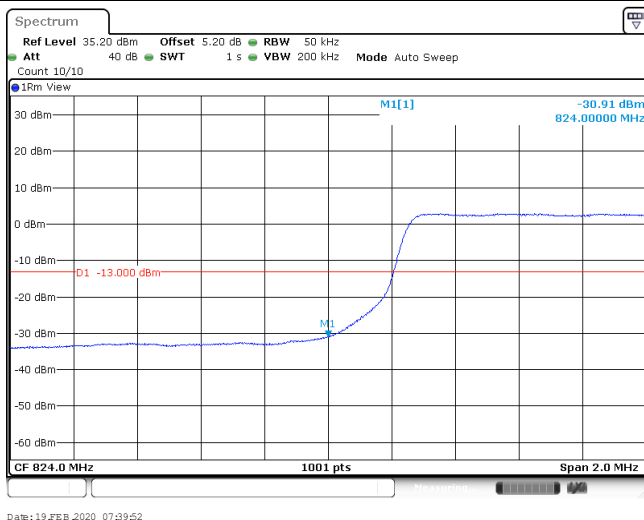


Band5_5MHz_16QAM_20425_1RB#0



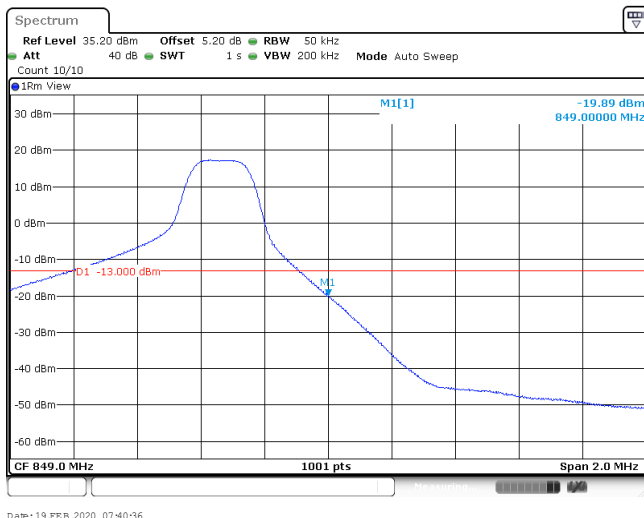


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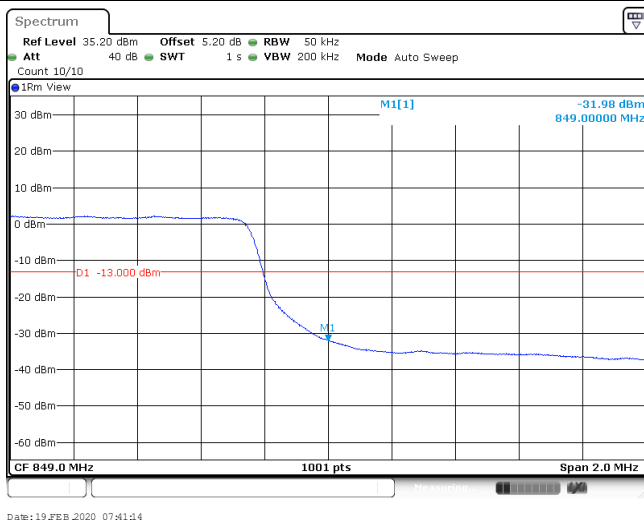


Band5_5MHz_16QAM_20625_1RB#24



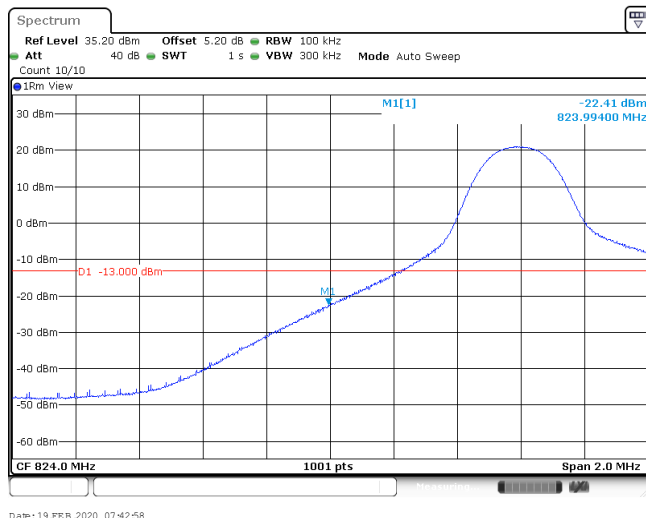


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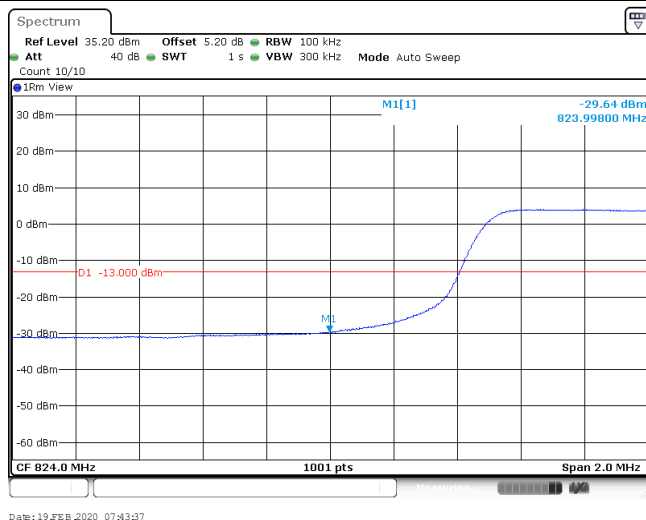


Band5_10MHz_QPSK_20450_1RB#0



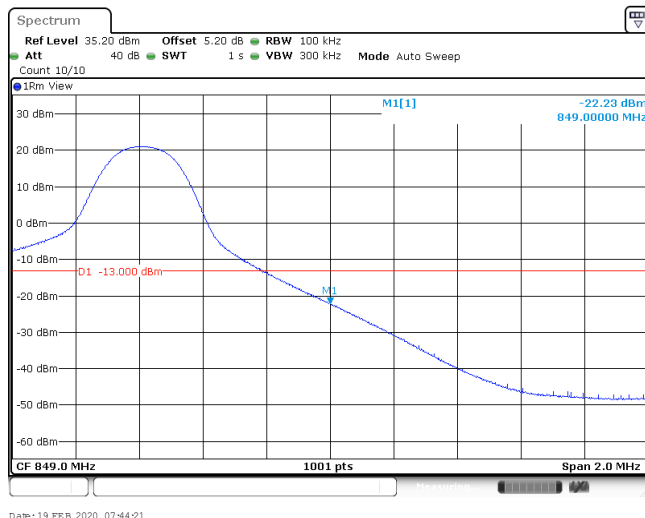


Band5_10MHz_QPSK_20450_50RB#0

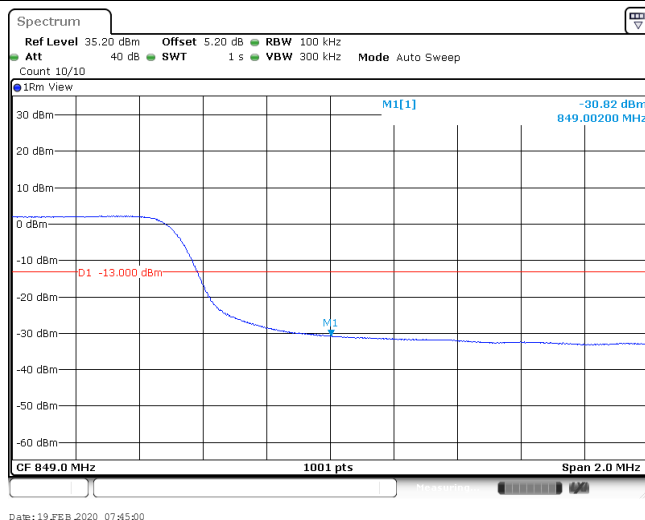


Band5_10MHz_QPSK_20600_1RB#49



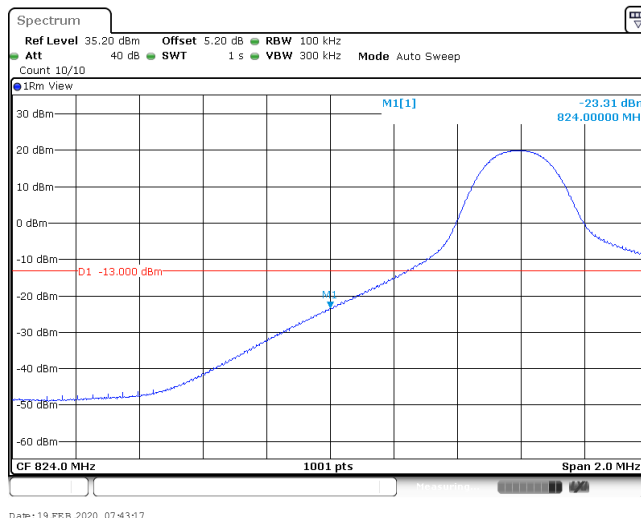


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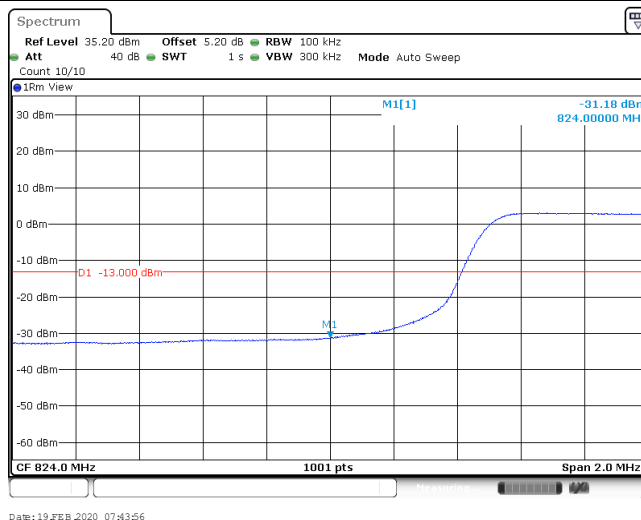


Band5_10MHz_16QAM_20450_1RB#0





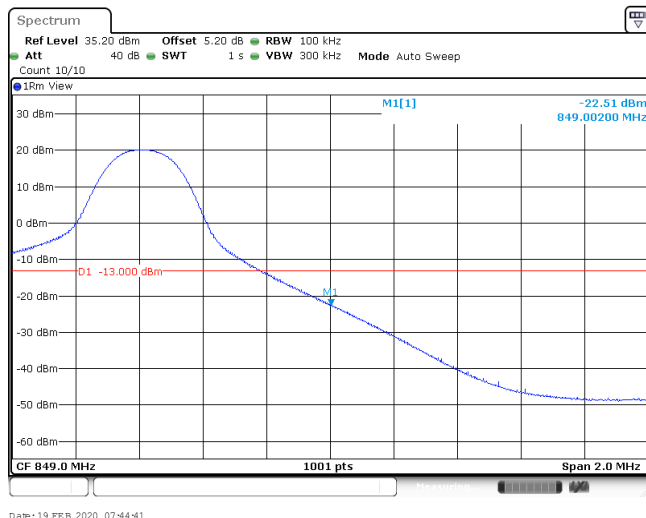
Band5_10MHz_16QAM_20450_50RB#0



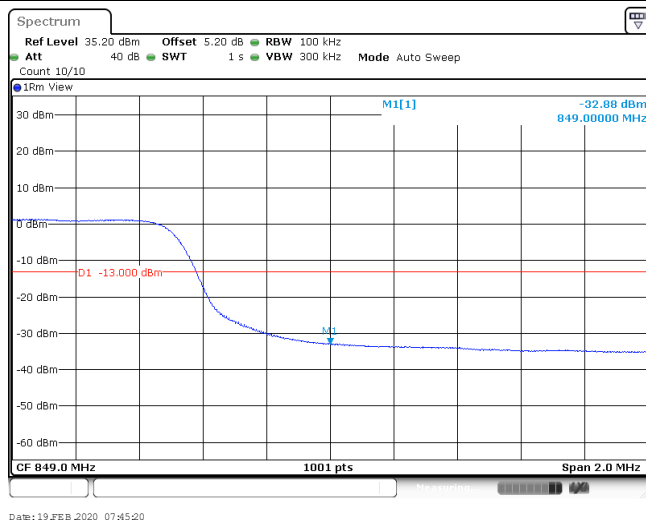
Band5_10MHz_16QAM_20600_1RB#49



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Band5_10MHz_16QAM_20600_50RB#0



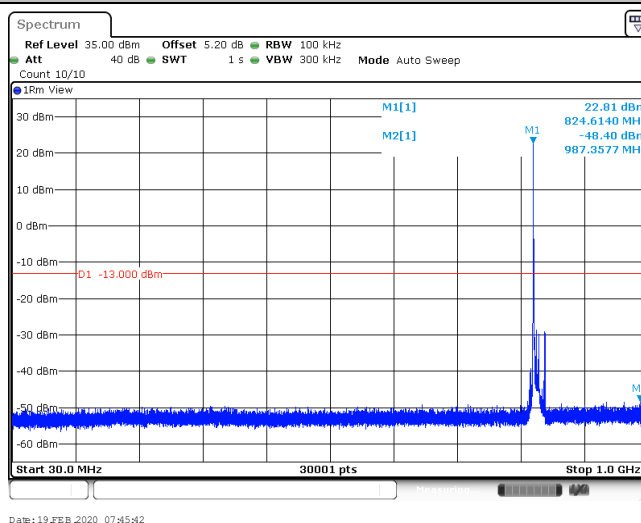
6. Spurious Emission at Antenna Terminal

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.

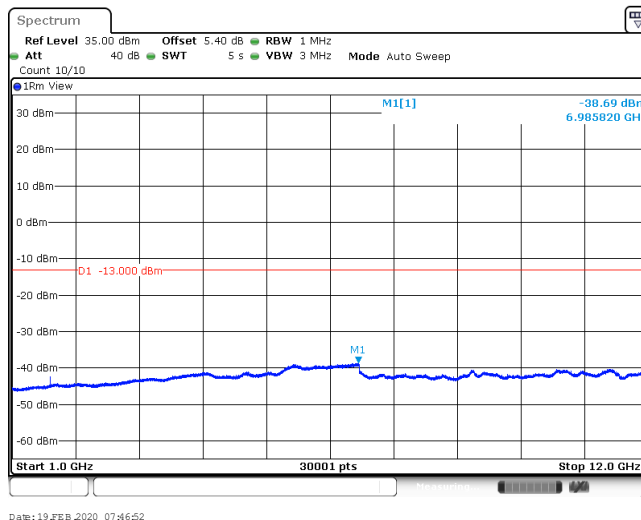
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band5_10MHz_QPSK_20450_1RB#0

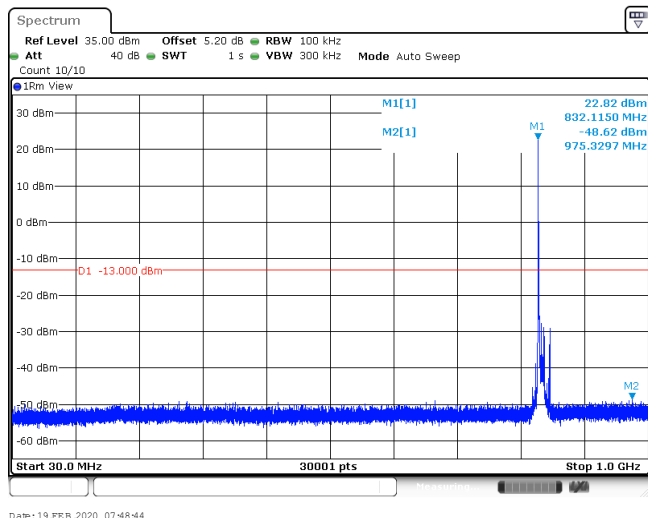


Band5_10MHz_QPSK_20450_1RB#0

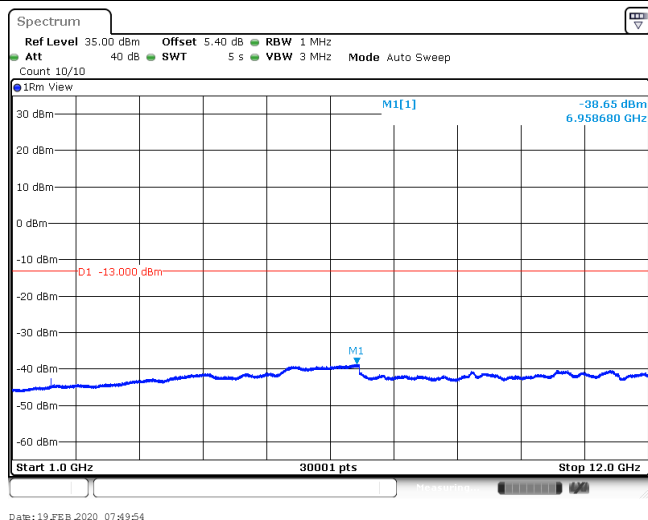


Band5_10MHz_QPSK_20525_1RB#0



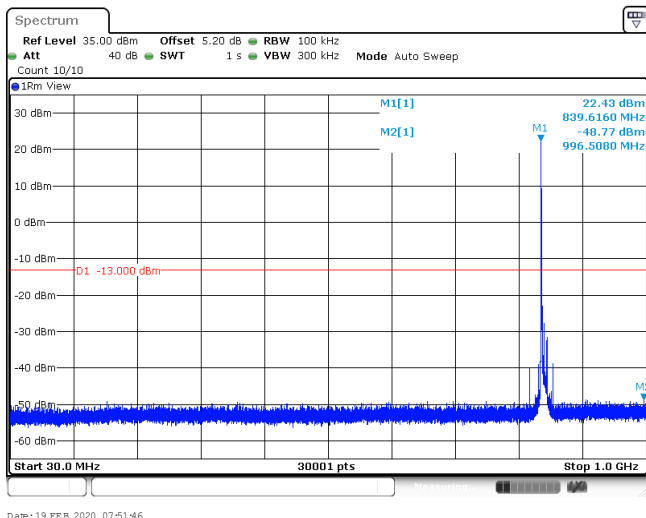


Band5_10MHz_QPSK_20525_1RB#0

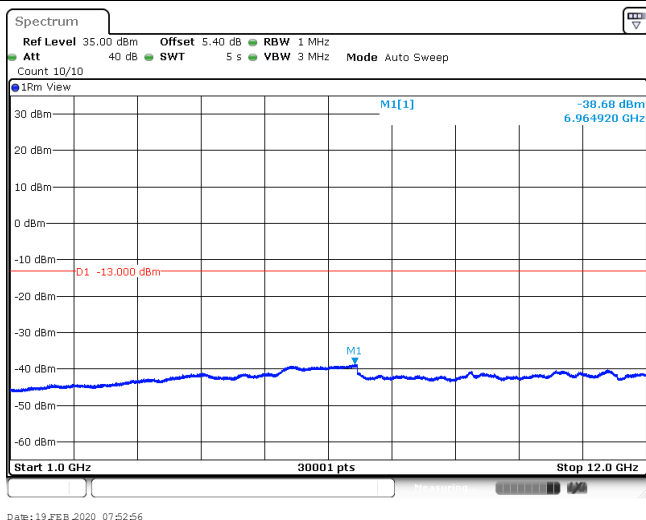


Band5_10MHz_QPSK_20600_1RB#0



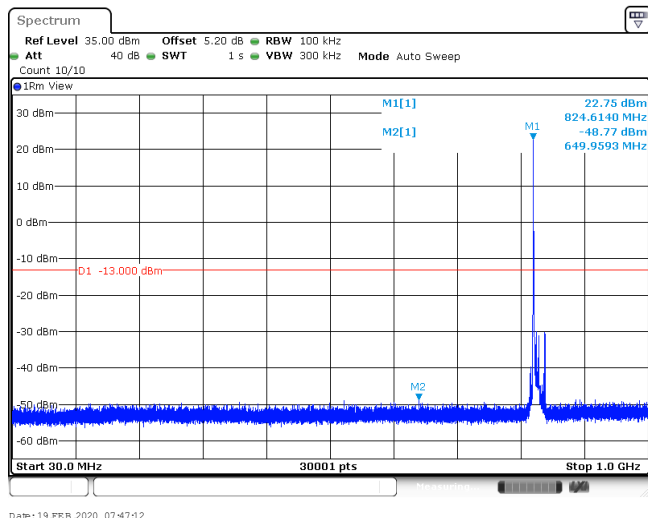


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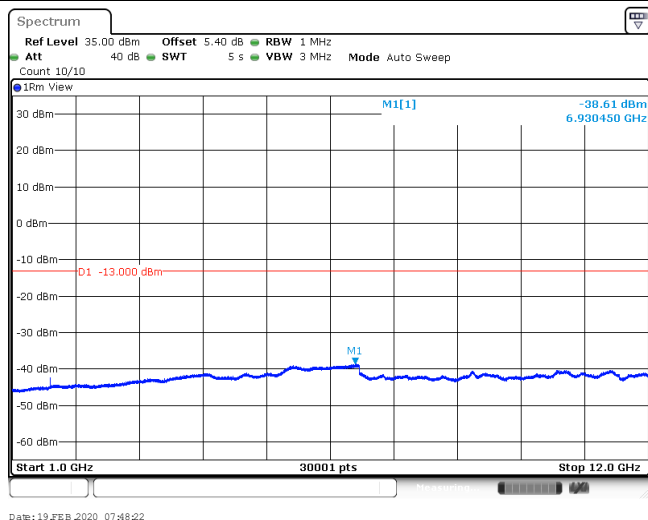


Band5_10MHz_16QAM_20450_1RB#0



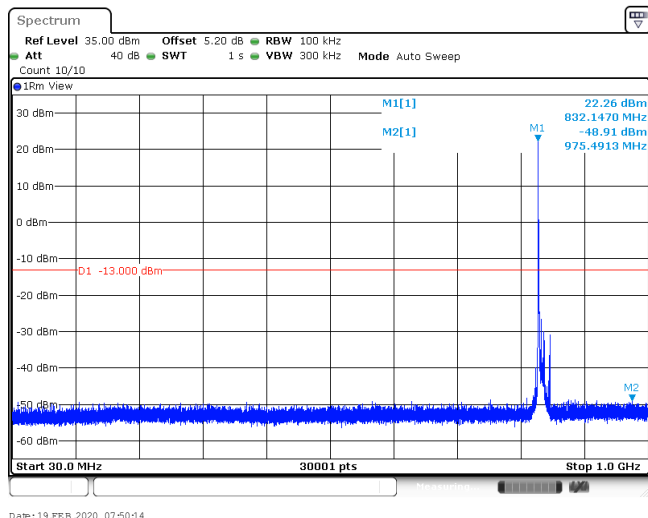


Band5_10MHz_16QAM_20450_1RB#0

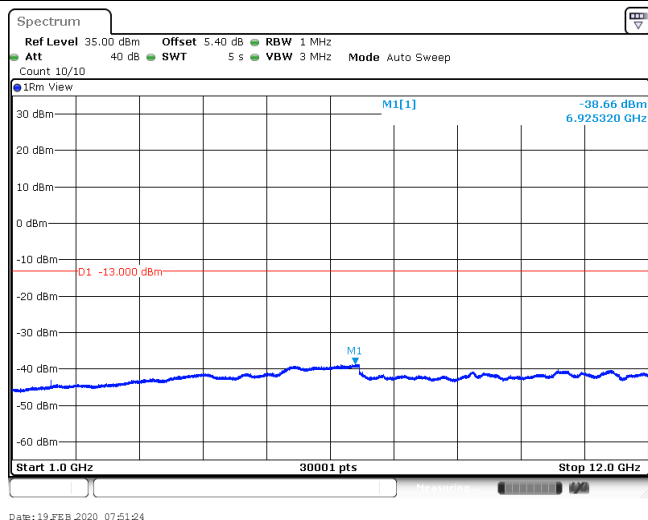


Band5_10MHz_16QAM_20525_1RB#0



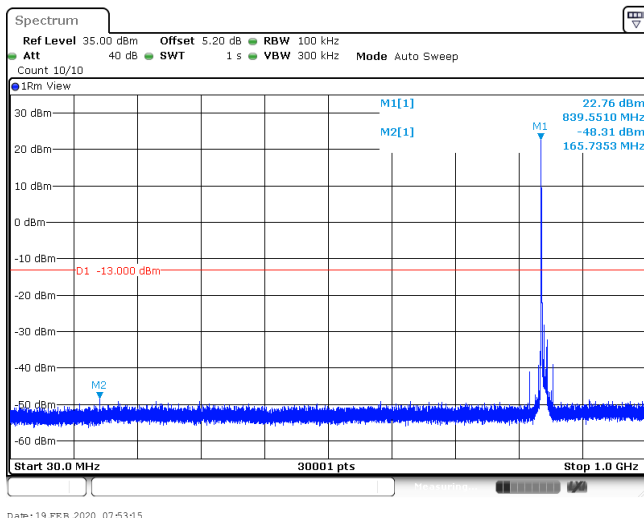


Band5_10MHz_16QAM_20525_1RB#0

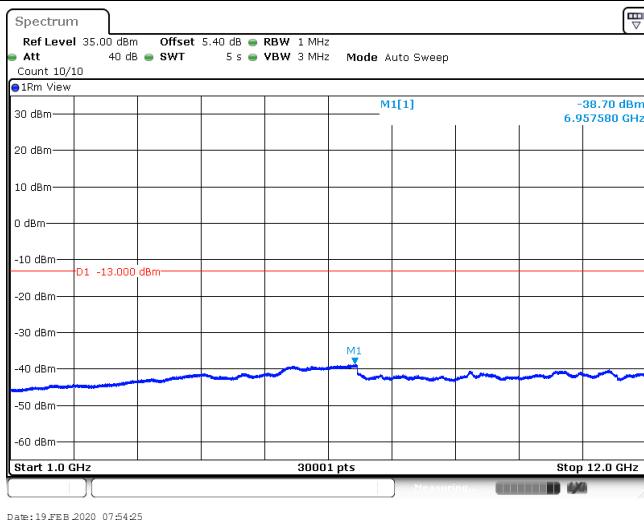


Band5_10MHz_16QAM_20600_1RB#0





Band5_10MHz_16QAM_20600_1RB#0





7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 5

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
116.8193	-62.89	-13.00	49.89	174	35	Vertical
398.7639	-65.69	-13.00	52.69	195	354	Vertical
1648.9298	-59.37	-13.00	46.37	174	286	Vertical
2997.9996	-56.31	-13.00	43.31	196	308	Vertical
4122.6374	-47.96	-13.00	34.96	185	226	Vertical
4947.6649	-56.52	-13.00	43.52	162	354	Vertical
41.6891	-62.23	-13.00	49.23	241	354	Horizontal
227.4534	-64.79	-13.00	51.79	258	195	Horizontal
1648.9298	-52.13	-13.00	39.13	263	356	Horizontal
2473.8948	-55.00	-13.00	42.00	241	270	Horizontal
4123.0374	-51.87	-13.00	38.87	269	258	Horizontal
4123.0374	-51.87	-13.00	38.87	271	258	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
103.2872	-62.26	-13.00	49.26	184	166	Vertical
350.6010	-65.68	-13.00	52.68	175	325	Vertical
1664.1328	-60.50	-13.00	47.50	199	211	Vertical
3000.0000	-56.34	-13.00	43.34	185	165	Vertical
4160.2387	-49.10	-13.00	36.10	163	230	Vertical
8001.7667	-55.79	-13.00	42.79	195	198	Vertical
38.9729	-62.10	-13.00	49.10	187	35	Horizontal
237.5419	-65.03	-13.00	52.03	165	351	Horizontal
1664.1328	-51.37	-13.00	38.37	194	30	Horizontal
2496.2993	-55.25	-13.00	42.25	175	308	Horizontal
4160.4387	-52.21	-13.00	39.21	181	225	Horizontal
7971.5657	-56.56	-13.00	43.56	184	162	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
115.5583	-61.90	-13.00	48.90	174	4	Vertical
341.8706	-66.67	-13.00	53.67	165	226	Vertical
1679.3359	-58.81	-13.00	45.81	198	63	Vertical
2997.9996	-56.43	-13.00	43.43	175	172	Vertical
4197.8399	-46.79	-13.00	33.79	194	226	Vertical
5037.6679	-56.50	-13.00	43.50	175	322	Vertical
39.8460	-62.23	-13.00	49.23	271	167	Horizontal
239.2395	-65.67	-13.00	52.67	225	135	Horizontal
1678.9358	-48.92	-13.00	35.92	263	30	Horizontal
2462.6925	-55.56	-13.00	42.56	284	222	Horizontal
4198.0399	-50.34	-13.00	37.34	271	263	Horizontal
7457.3486	-56.25	-13.00	43.25	259	167	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 had been displayed.
- 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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-14.88	-0.017949	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-12.26	-0.014789	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-11.06	-0.013341	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-14.15	-0.016916	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-10.84	-0.012959	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-11.57	-0.013831	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-11.84	-0.014028	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-13.19	-0.015628	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-13.46	-0.015948	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-8.27	-0.009976	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-10.74	-0.012955	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-12.89	-0.015549	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-12.26	-0.014656	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-10.71	-0.012803	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-12.42	-0.014848	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-10.37	-0.012287	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-13.26	-0.015711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-7.15	-0.008472	±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
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-12.79	-0.015428	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-11.50	-0.013872	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-12.73	-0.015356	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-12.97	-0.015645	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-11.14	-0.013438	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-12.09	-0.014584	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-9.66	-0.011653	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-8.63	-0.010410	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-7.22	-0.008631	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-11.49	-0.013736	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-11.47	-0.013712	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-13.73	-0.016414	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-10.81	-0.012923	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-7.42	-0.008870	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-7.10	-0.008488	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-13.46	-0.016091	±2.5	PASS



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Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-14.59	-0.017287	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-9.30	-0.011019	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-11.44	-0.013555	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-12.39	-0.014680	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-11.12	-0.013175	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-12.75	-0.015107	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-11.60	-0.013744	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-15.12	-0.017915	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-13.09	-0.015790	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-10.11	-0.012195	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-11.92	-0.014379	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-11.29	-0.013619	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-11.53	-0.013908	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-11.89	-0.014343	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-13.36	-0.016116	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-9.14	-0.011025	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-11.13	-0.013305	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-11.24	-0.013437	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-9.57	-0.011441	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-10.04	-0.012002	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-8.01	-0.009576	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-8.04	-0.009611	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-7.72	-0.009229	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-12.53	-0.014979	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-11.52	-0.013649	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-13.90	-0.016469	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-13.83	-0.016386	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-11.30	-0.013389	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-9.70	-0.011493	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-10.67	-0.012642	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-10.67	-0.012642	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-10.94	-0.012962	±2.5	PASS

The End



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