

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

LTE FDD Band 5				
TX Channel Bandwidth	Channel	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	20407	1 RB low	21.54	21.00
		1 RB high	22.74	22.17
		50% RB mid	21.67	21.10
		100% RB	22.60	22.14
	20525	1 RB low	21.56	21.17
		1 RB high	22.34	21.82
		50% RB mid	21.84	21.01
		100% RB	22.57	21.73
	20643	1 RB low	21.63	21.00
		1 RB high	23.07	22.58
		50% RB mid	21.66	21.13
		100% RB	22.16	21.34
3 MHz	20415	1 RB low	22.54	22.19
		1 RB high	22.20	21.84
		50% RB mid	23.25	22.79
		100% RB	22.19	21.49
	20525	1 RB low	23.11	22.66
		1 RB high	23.37	22.96
		50% RB mid	22.80	22.36
		100% RB	22.68	22.11
	20635	1 RB low	22.18	21.51
		1 RB high	22.46	21.96
		50% RB mid	22.15	21.79
		100% RB	23.14	22.46
5 MHz	20425	1 RB low	22.76	22.00
		1 RB high	21.87	21.39
		50% RB mid	22.48	21.88
		100% RB	22.57	21.98
	20525	1 RB low	23.08	22.57
		1 RB high	21.77	21.40
		50% RB mid	23.24	22.59
		100% RB	22.43	21.65
	20625	1 RB low	22.28	21.64
		1 RB high	22.67	21.98
		50% RB mid	22.12	21.73

		100% RB	21.82	21.16
10 MHz	20450	1 RB low	21.88	21.23
		1 RB high	22.15	21.69
		50% RB mid	22.77	22.30
		100% RB	22.12	21.47
	20525	1 RB low	22.64	21.91
		1 RB high	21.77	21.02
		50% RB mid	23.10	22.43
		100% RB	23.06	22.49
	20600	1 RB low	21.91	21.24
		1 RB high	22.85	22.33
		50% RB mid	21.85	21.35
		100% RB	21.87	21.29

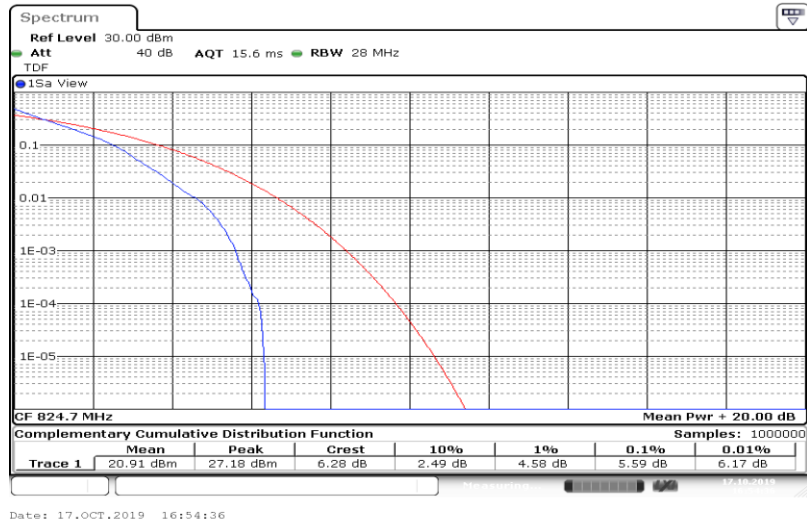
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

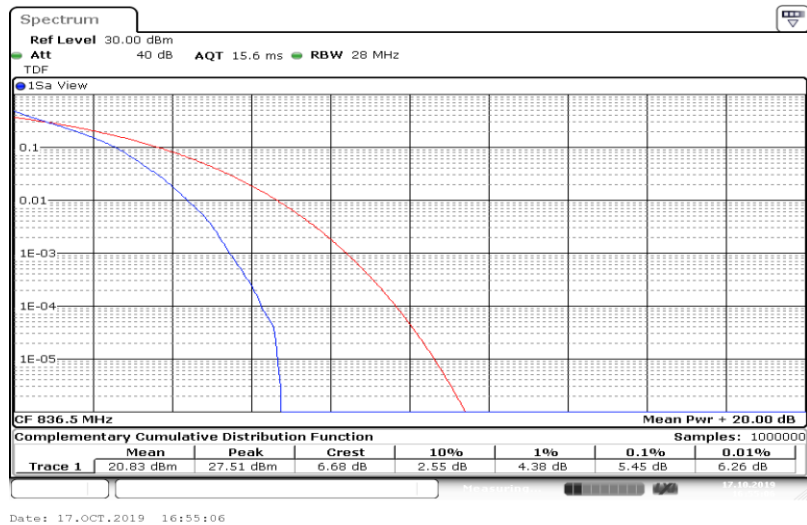
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.59	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.45	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.39	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.29	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.32	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.17	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.48	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.51	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.45	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.32	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.23	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.26	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.45	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.45	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.45	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.14	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.17	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.14	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.45	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.45	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.20	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.14	13	PASS

Test Graphs

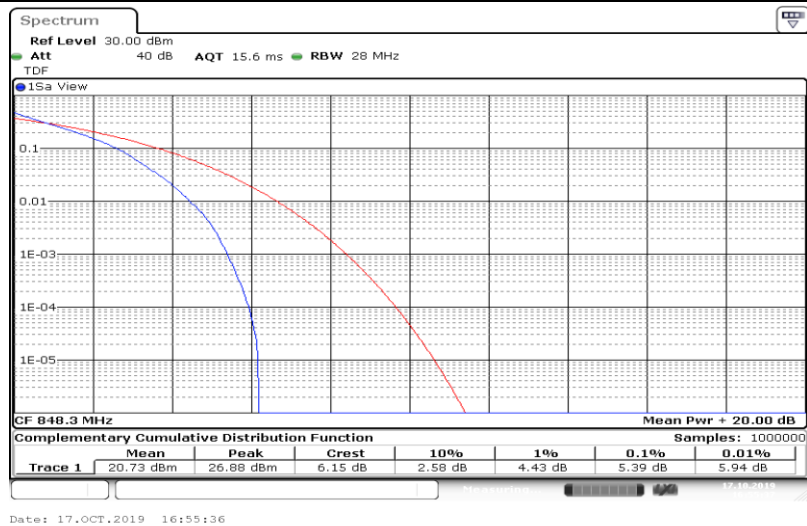
Band5-1.4MHz-QPSK-20407-6RB#0



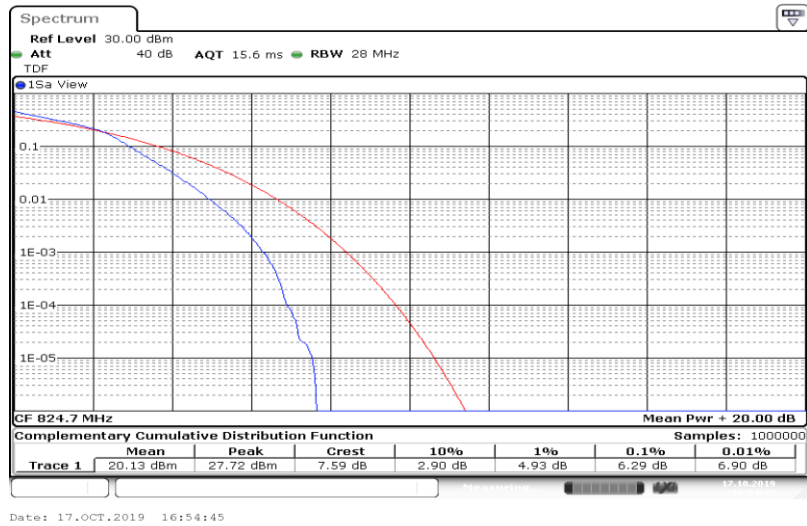
Band5-1.4MHz-QPSK-20525-6RB#0



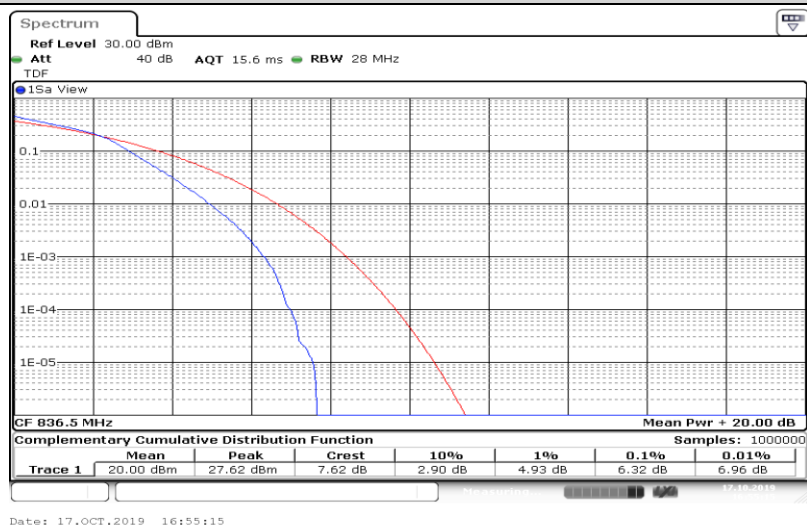
Band5-1.4MHz-QPSK-20643-6RB#0



Band5-1.4MHz-16QAM-20407-6RB#0



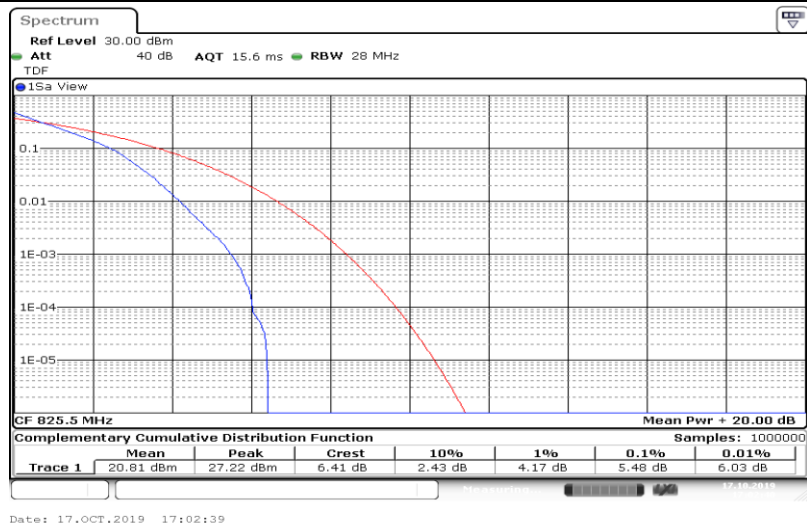
Band5-1.4MHz-16QAM-20525-6RB#0



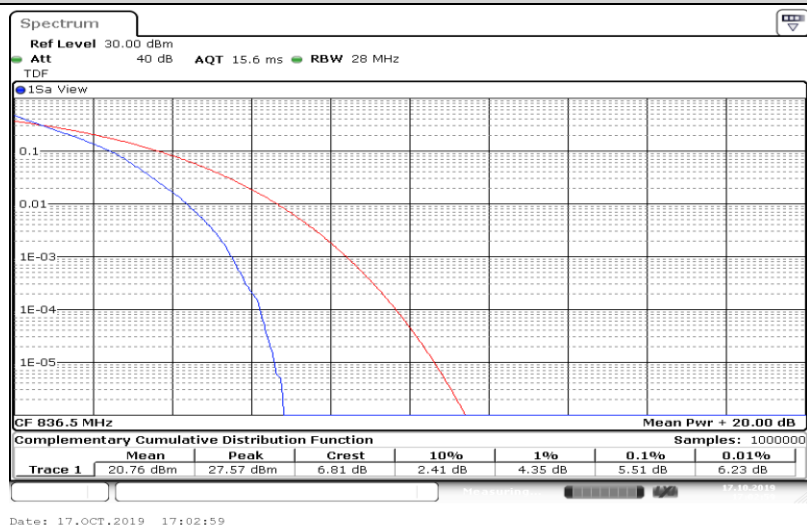
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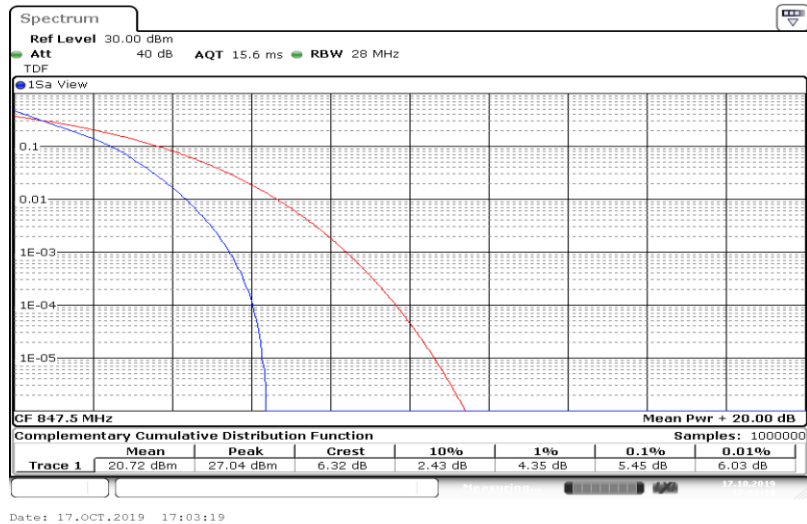
Band5-3MHz-QPSK-20415-15RB#0



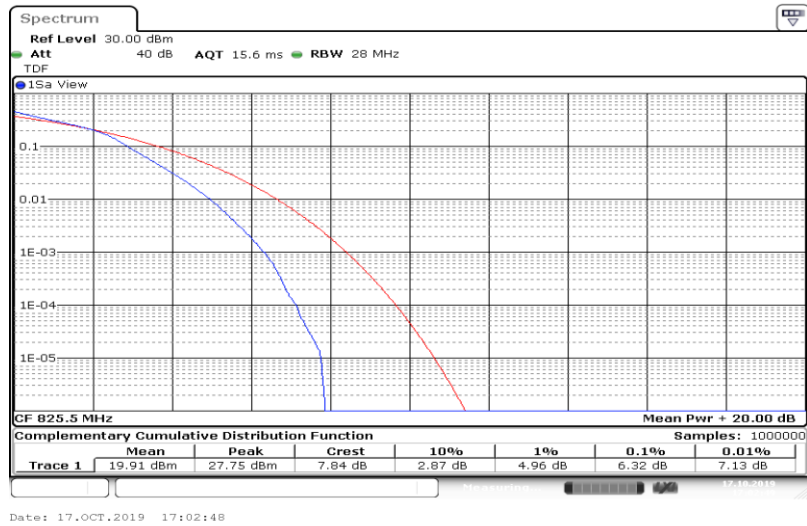
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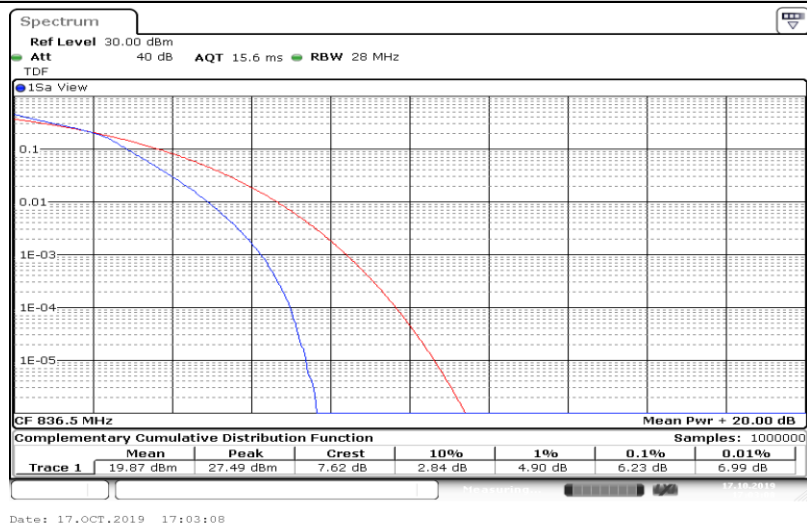
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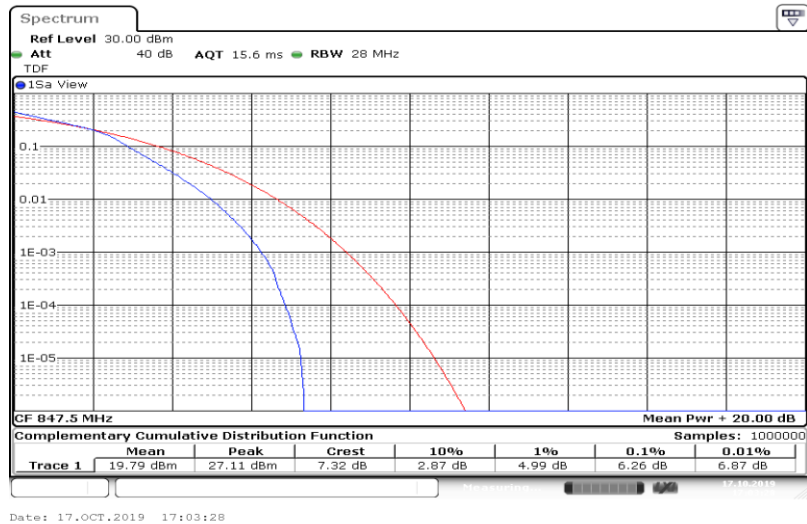
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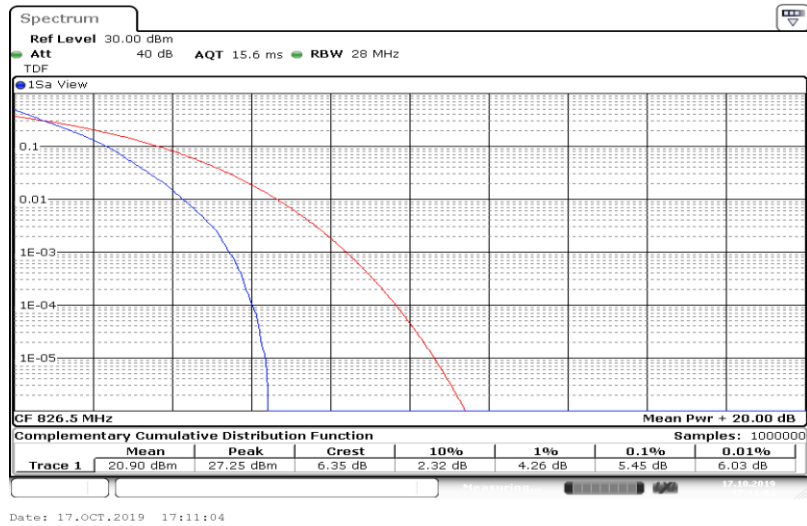
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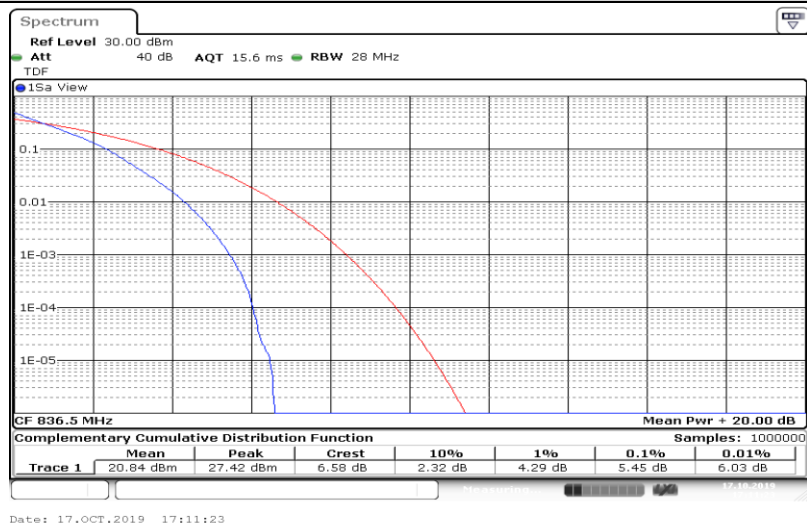
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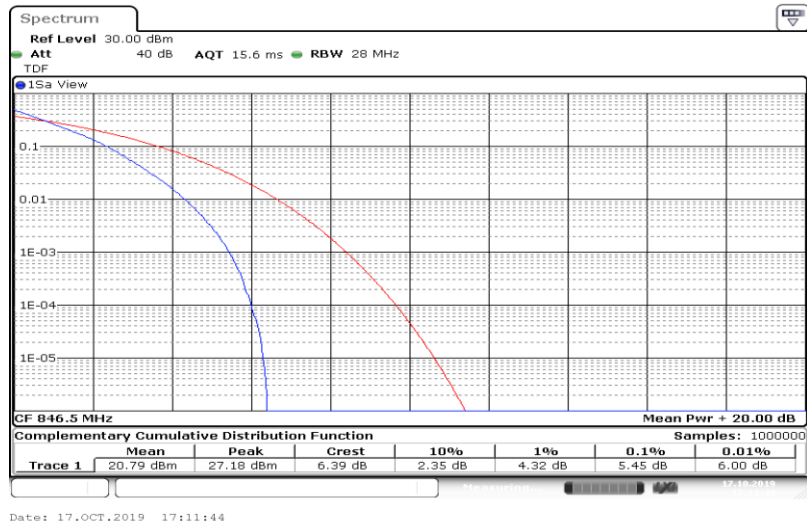
Band5-5MHz-QPSK-20425-25RB#0



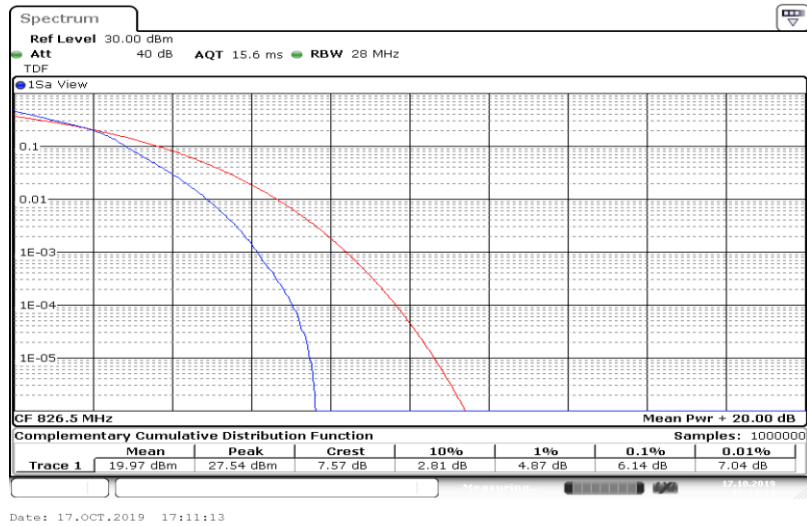
Band5-5MHz-QPSK-20525-25RB#0



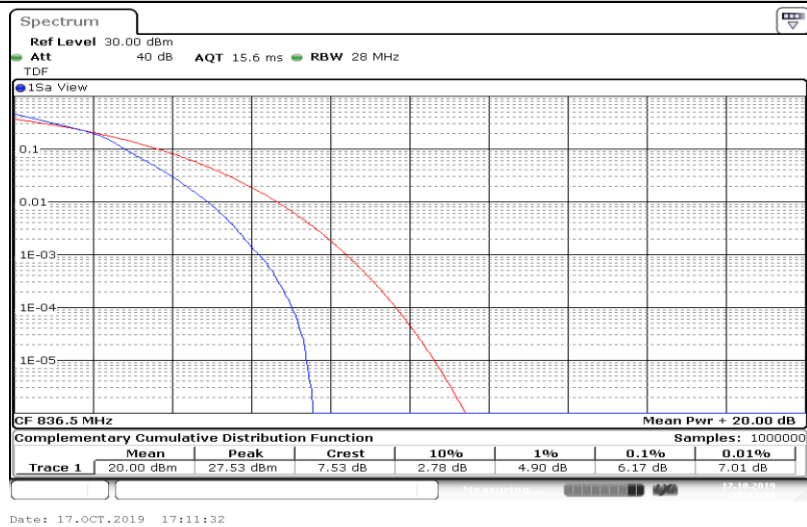
Band5-5MHz-QPSK-20625-25RB#0



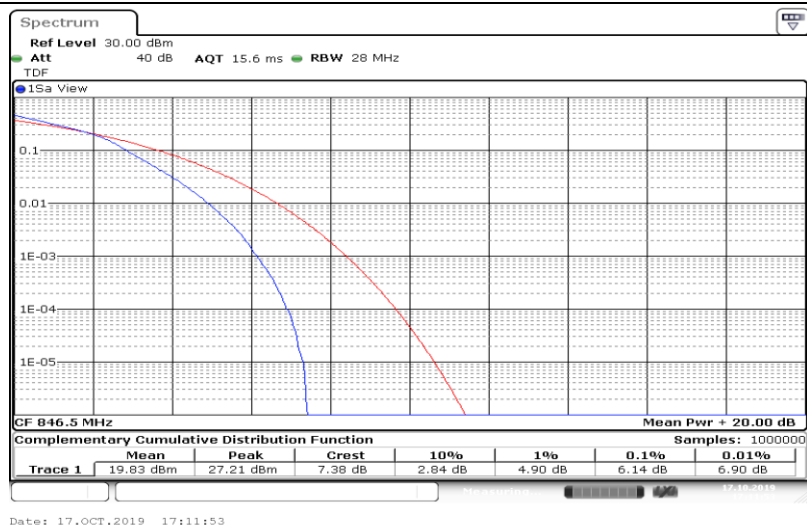
Band5-5MHz-16QAM-20425-25RB#0



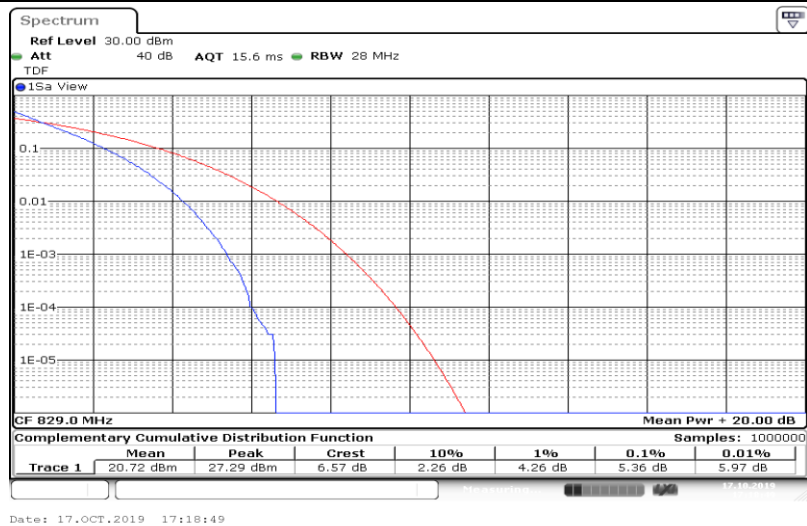
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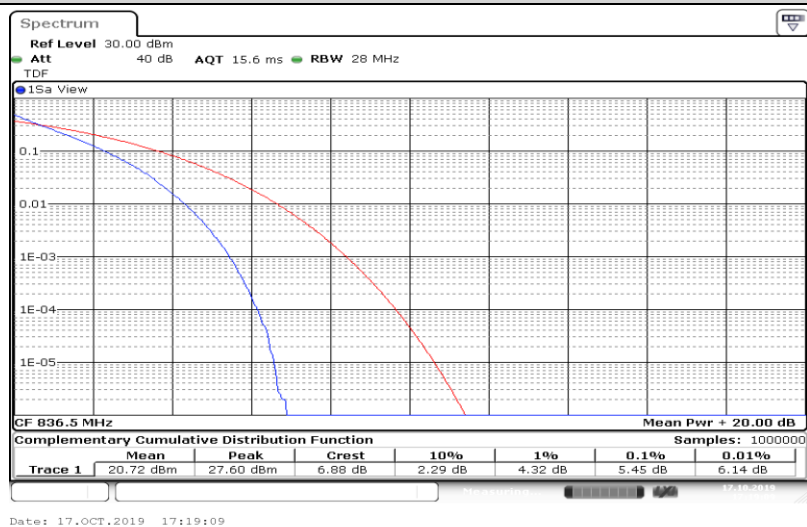
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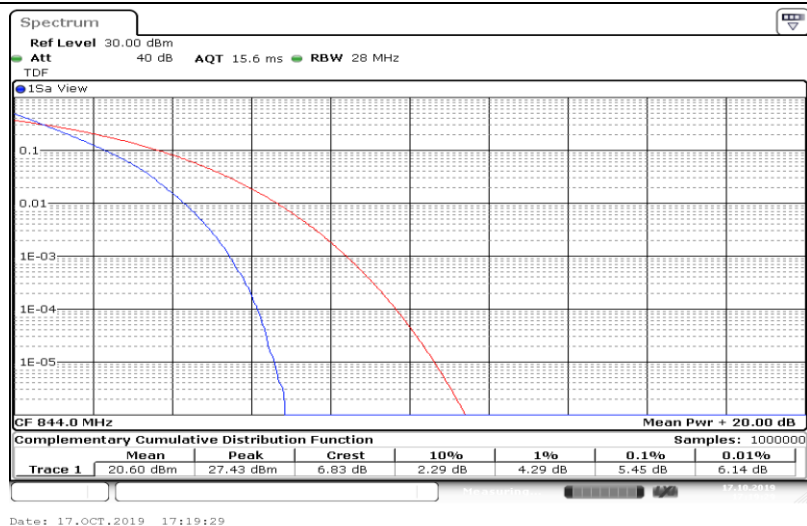
Band5-10MHz-QPSK-20450-50RB#0



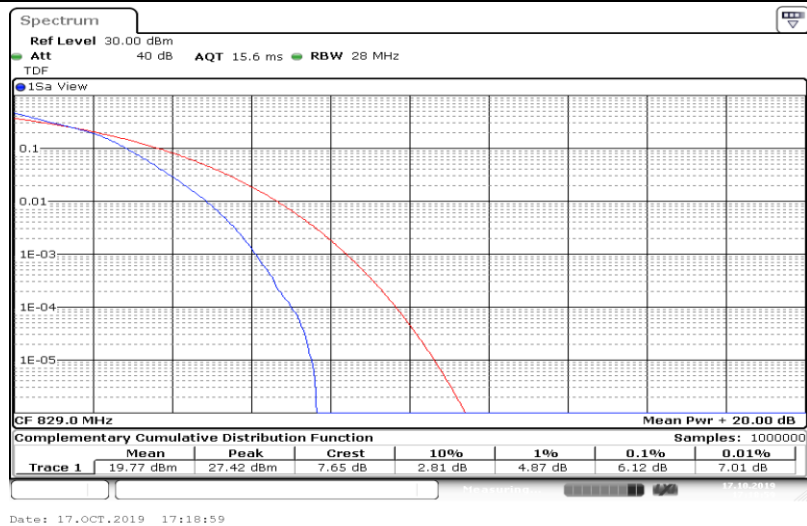
Band5-10MHz-QPSK-20525-50RB#0



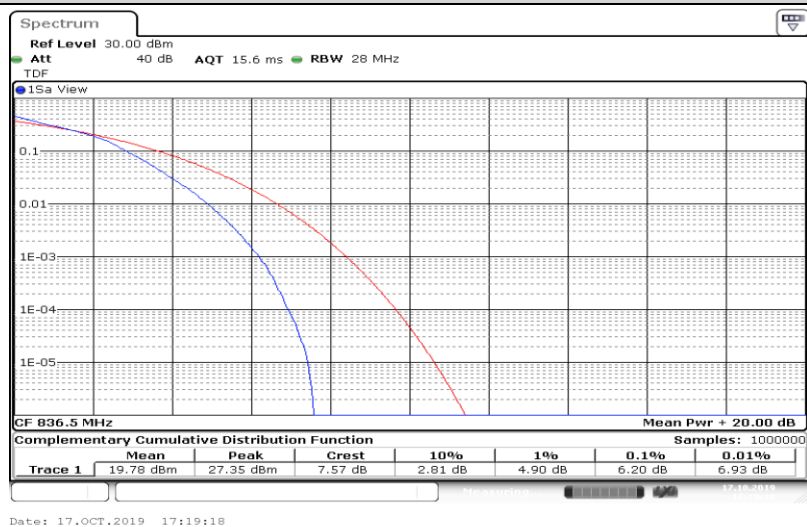
Band5-10MHz-QPSK-20600-50RB#0



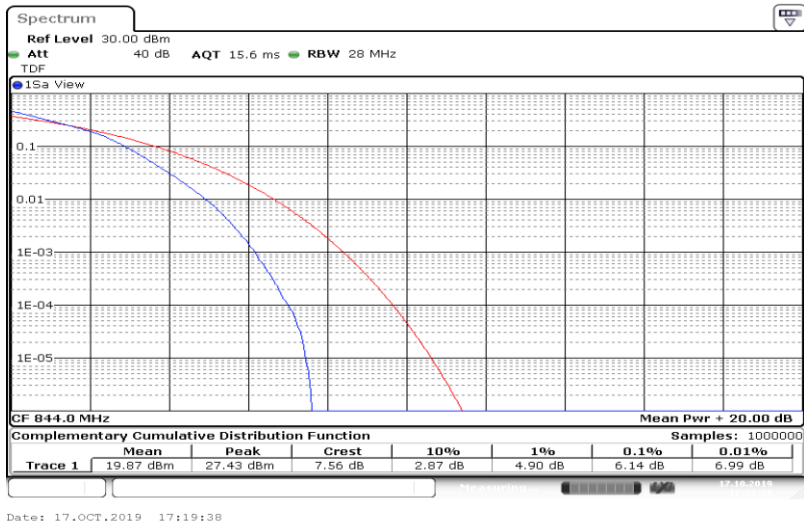
Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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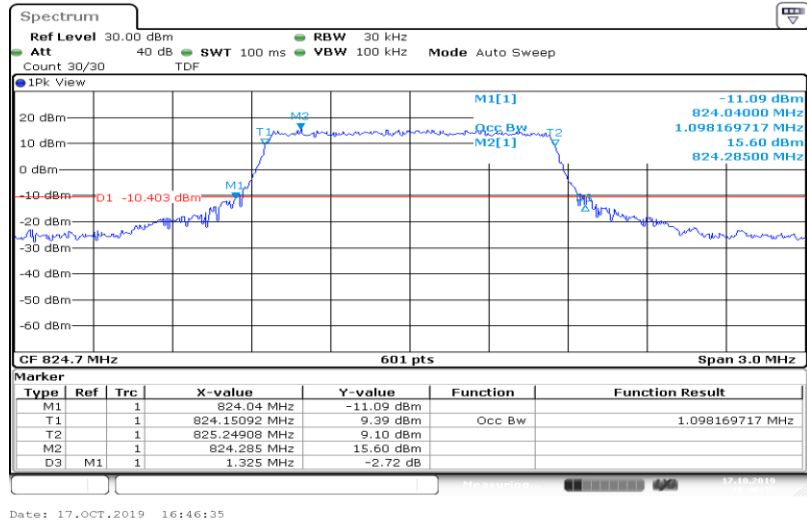
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

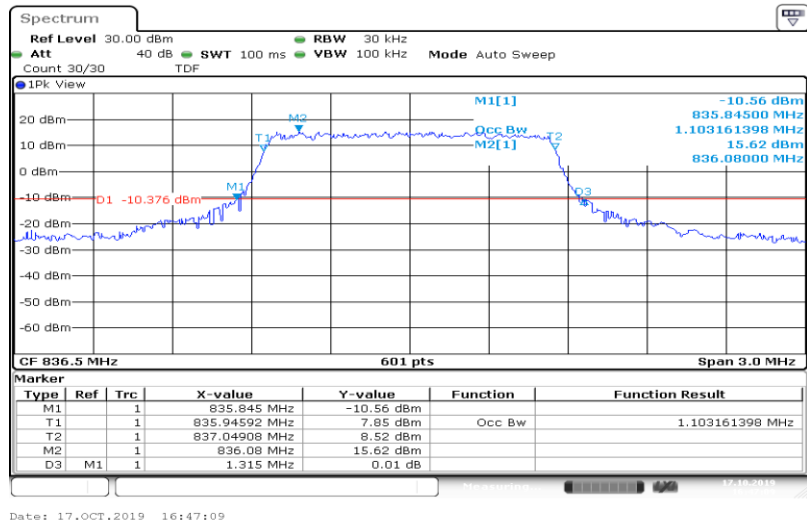
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.098	1.325	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.103	1.315	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.103	1.305	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.093	1.305	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.093	1.325	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.093	1.320	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.715	3.080	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.715	3.060	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.715	3.050	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.715	3.160	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.705	3.130	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.715	3.050	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.505	5.480	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.525	5.280	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.535	5.420	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.545	5.420	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.545	5.410	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.515	5.290	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.018	10.333	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	10.133	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.985	10.167	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	10.467	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.018	10.133	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.985	10.100	PASS

Test Graphs

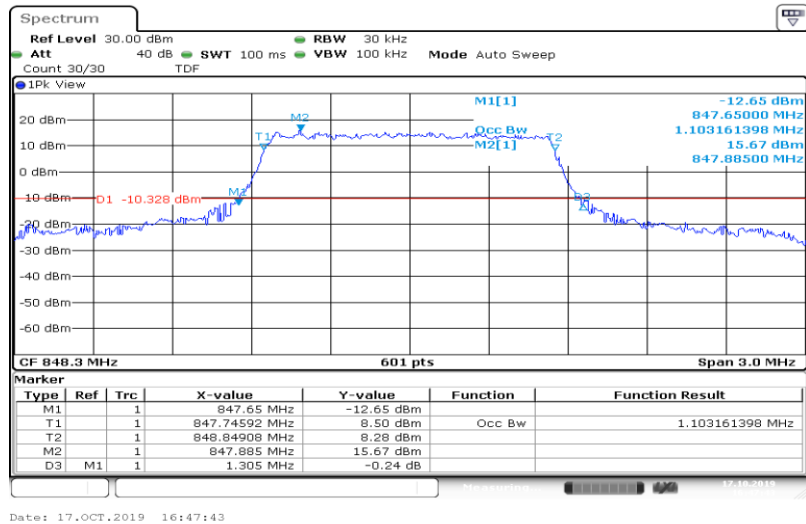
Band5-1.4MHz-QPSK-20407-6RB#0-1.098



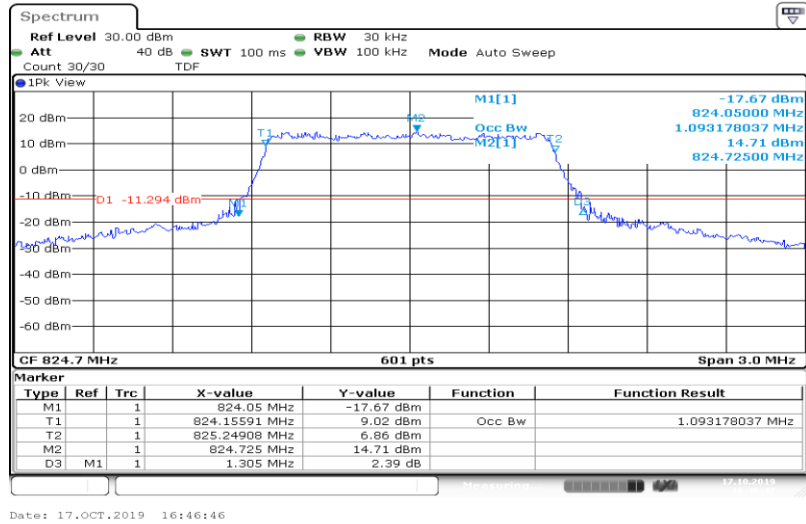
Band5-1.4MHz-QPSK-20525-6RB#0-1.103



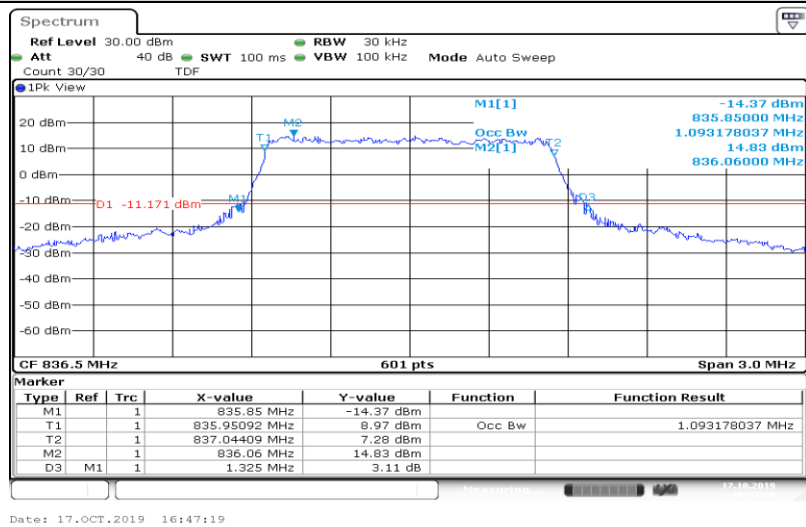
Band5-1.4MHz-QPSK-20643-6RB#0-1.103



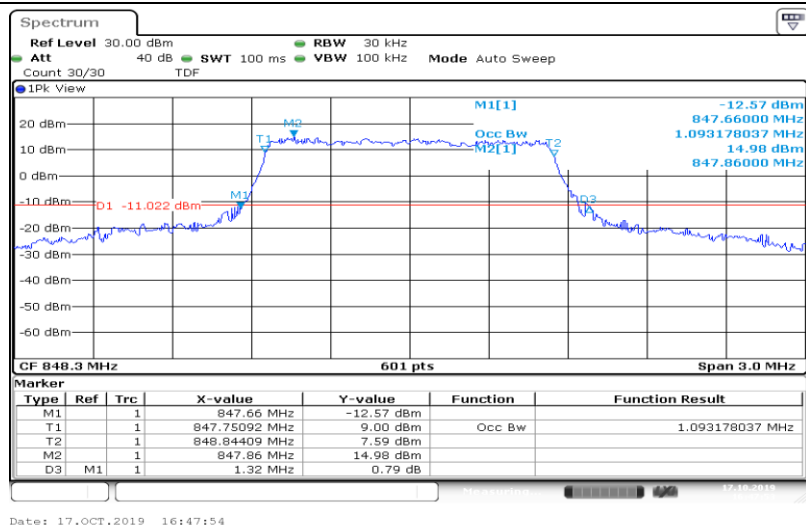
Band5-1.4MHz-16QAM-20407-6RB#0-1.093



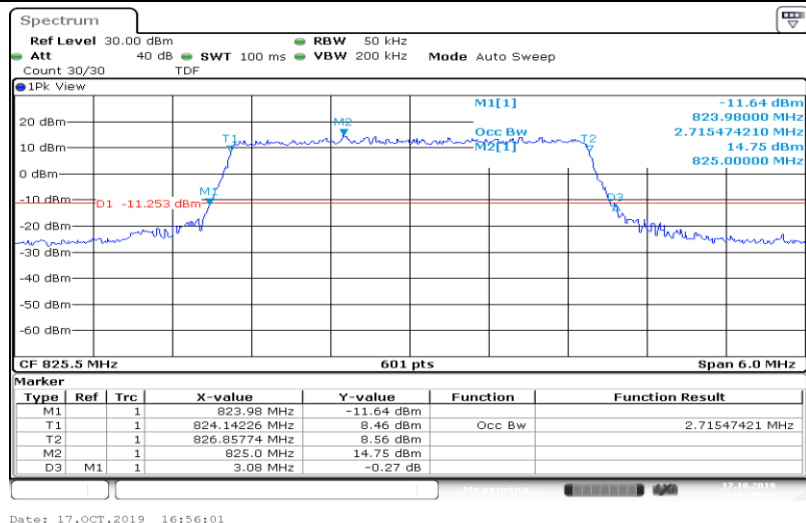
Band5-1.4MHz-16QAM-20525-6RB#0-1.093



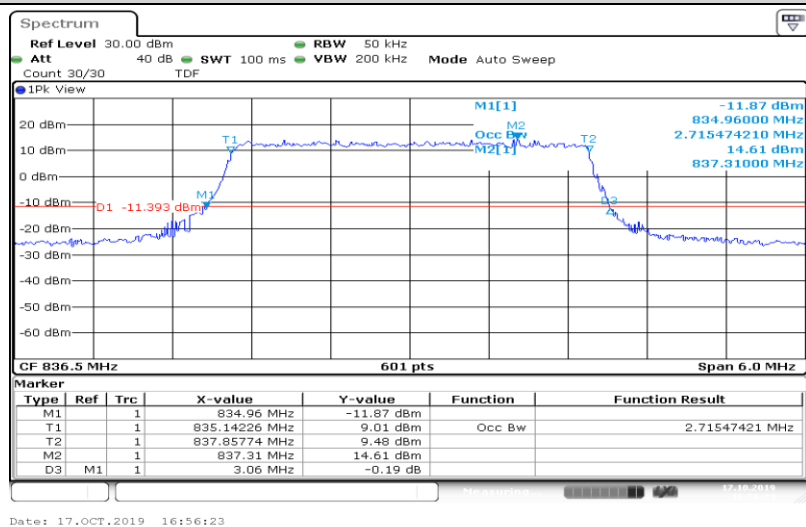
Band5-1.4MHz-16QAM-20643-6RB#0-1.093



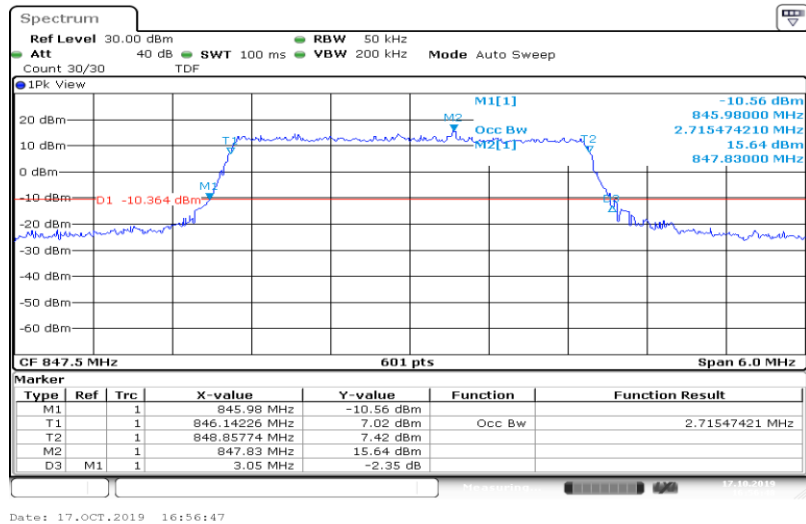
Band5-3MHz-QPSK-20415-15RB#0-2.715



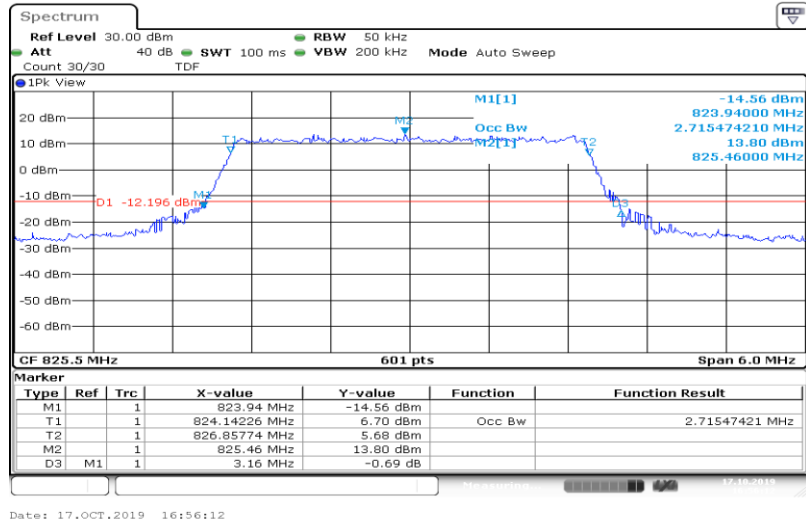
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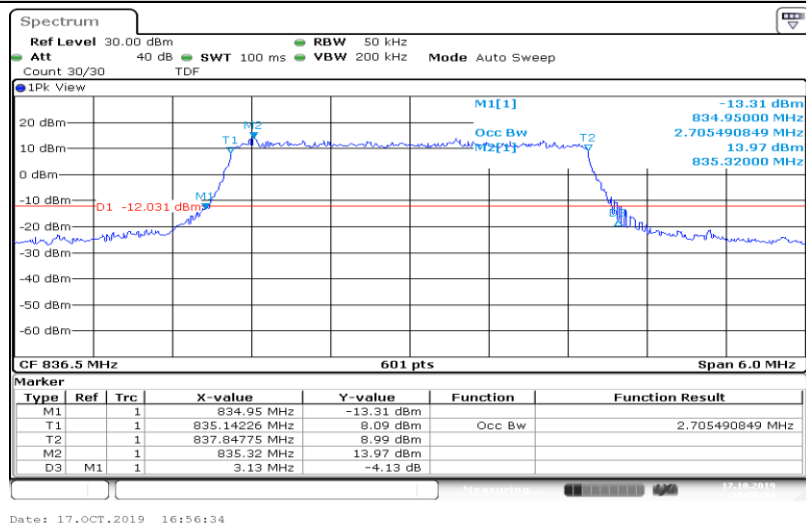
Band5-3MHz-QPSK-20635-15RB#0-2.715



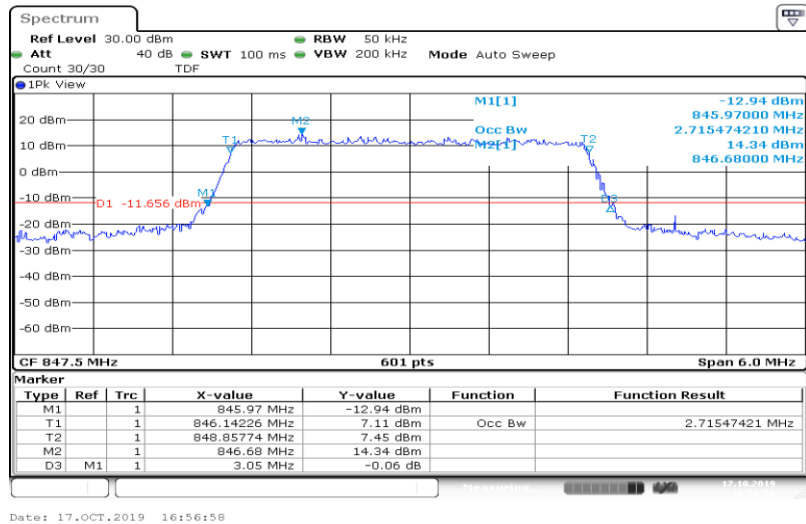
Band5-3MHz-16QAM-20415-15RB#0-2.715



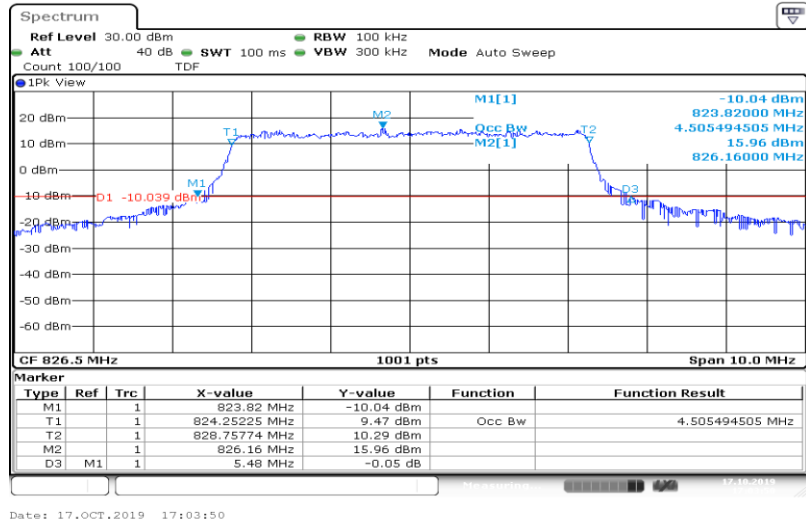
Band5-3MHz-16QAM-20525-15RB#0-2.705



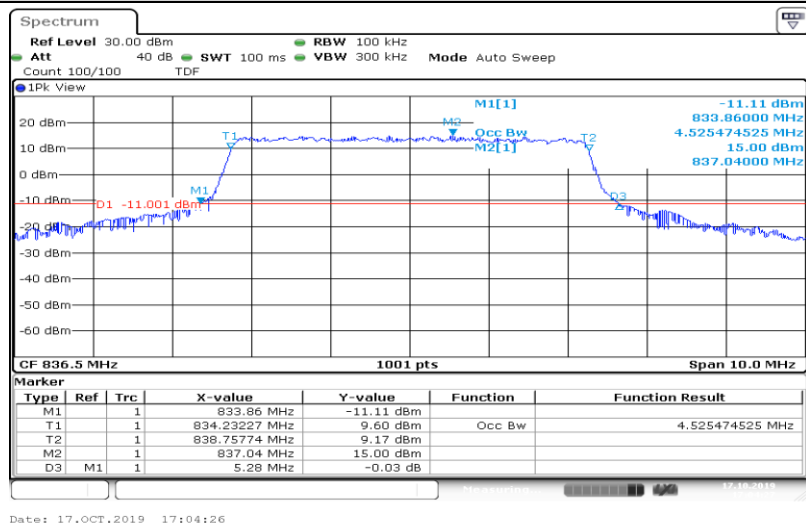
Band5-3MHz-16QAM-20635-15RB#0-2.715



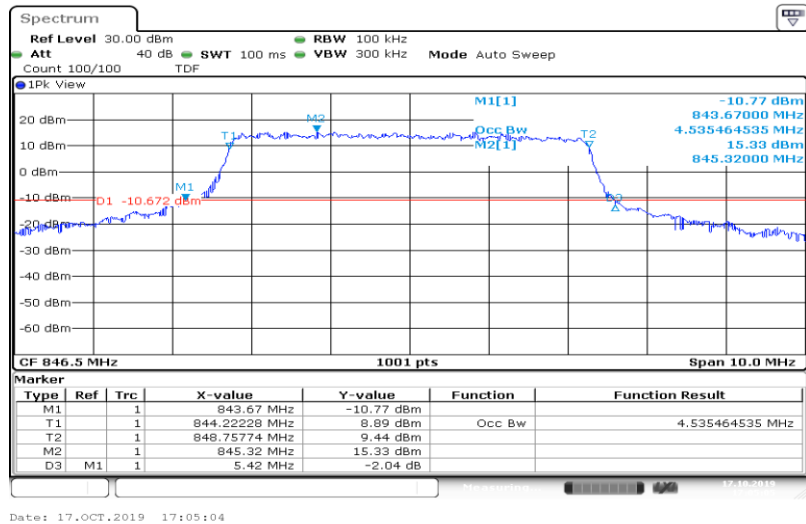
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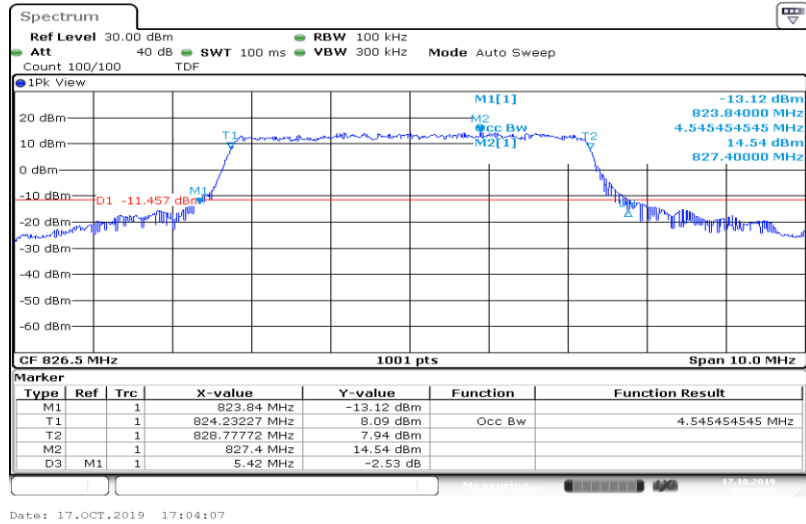
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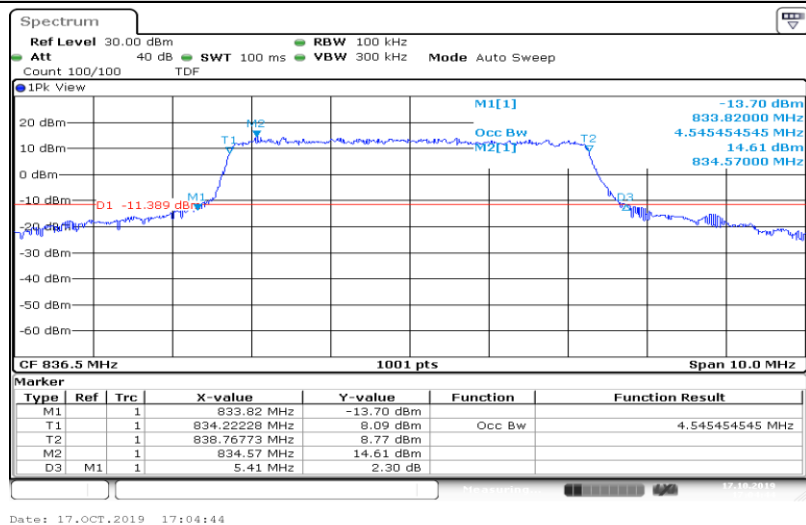
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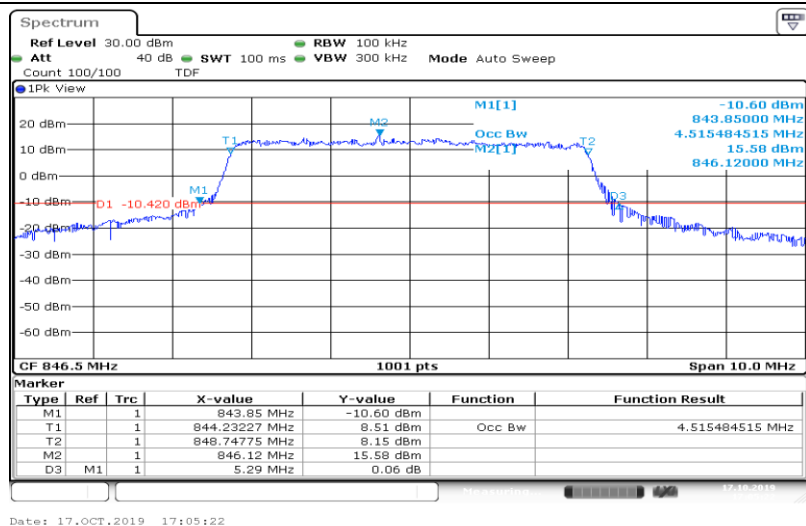
Band5-5MHz-16QAM-20425-25RB#0-4.545



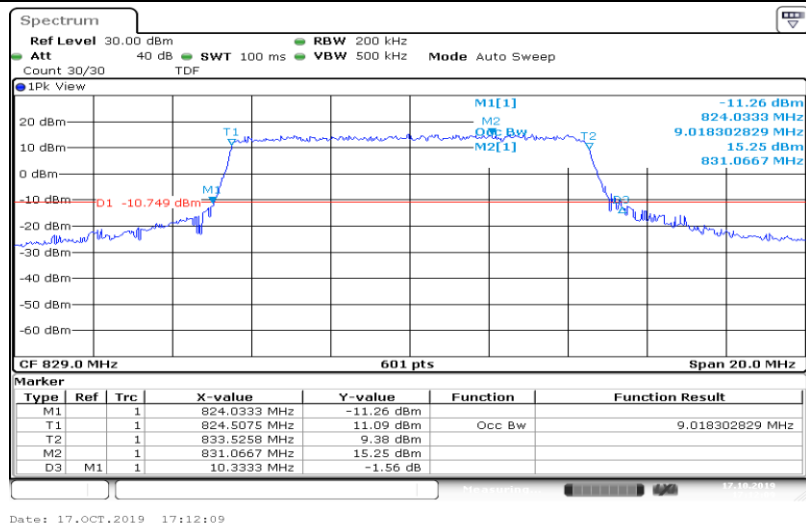
Band5-5MHz-16QAM-20525-25RB#0-4.545



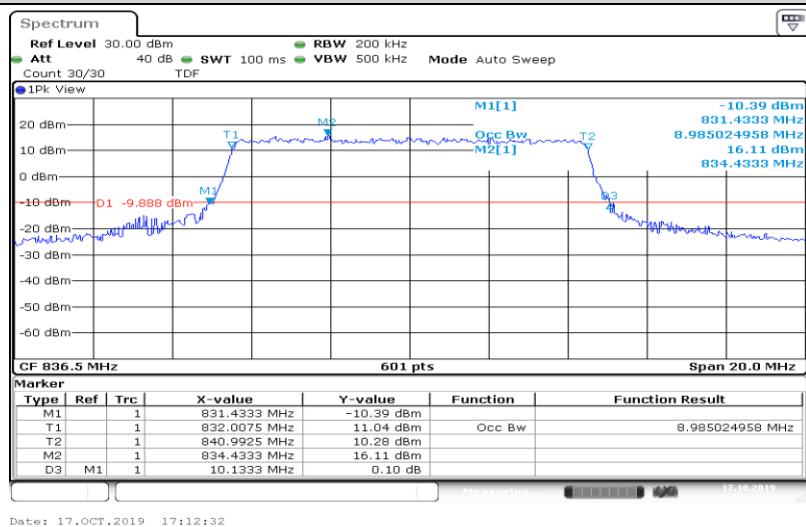
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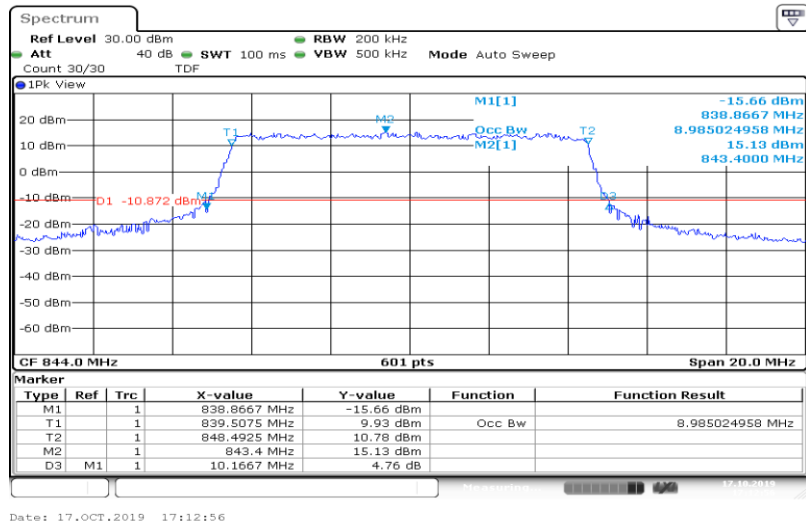
Band5-10MHz-QPSK-20450-50RB#0-9.018



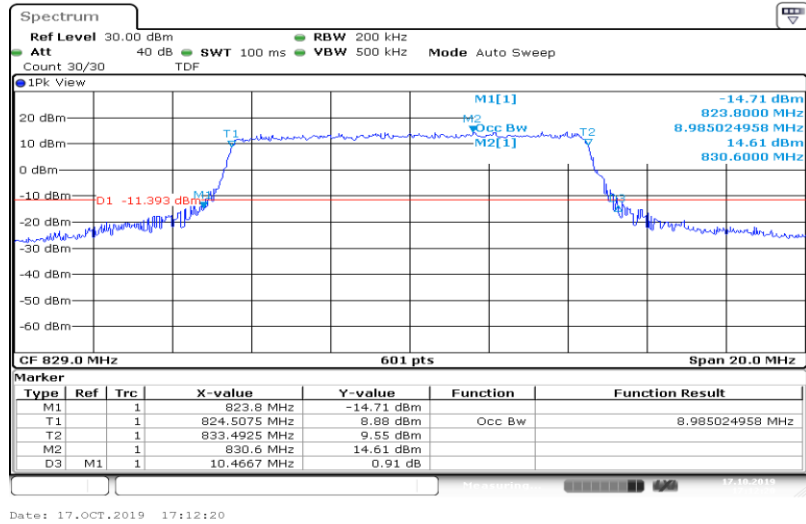
Band5-10MHz-QPSK-20525-50RB#0-8.985



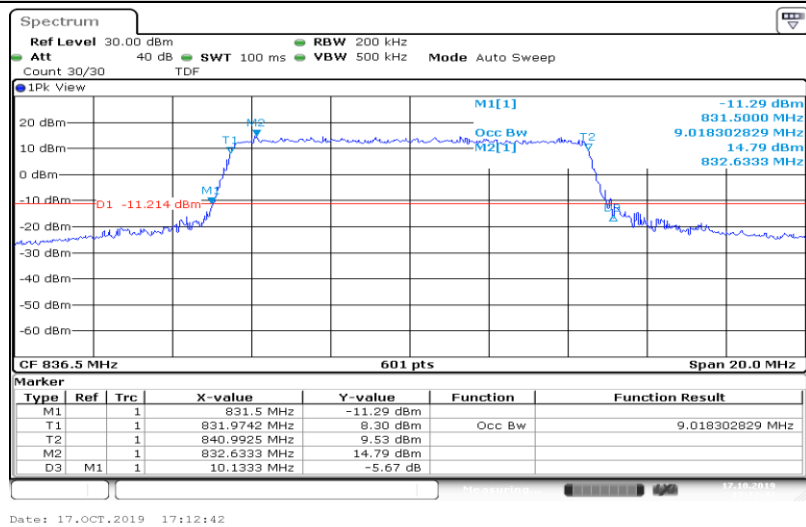
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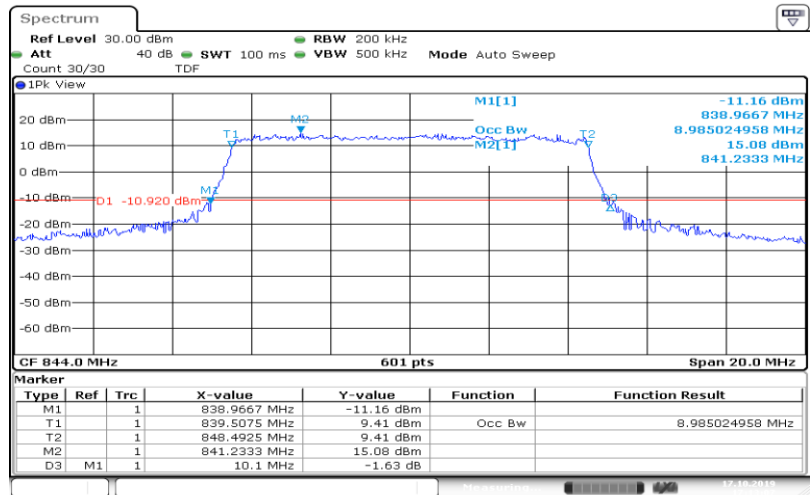
Band5-10MHz-16QAM-20450-50RB#0-8.985



Band5-10MHz-16QAM-20525-50RB#0-9.018



Band5-10MHz-16QAM-20600-50RB#0-8.985



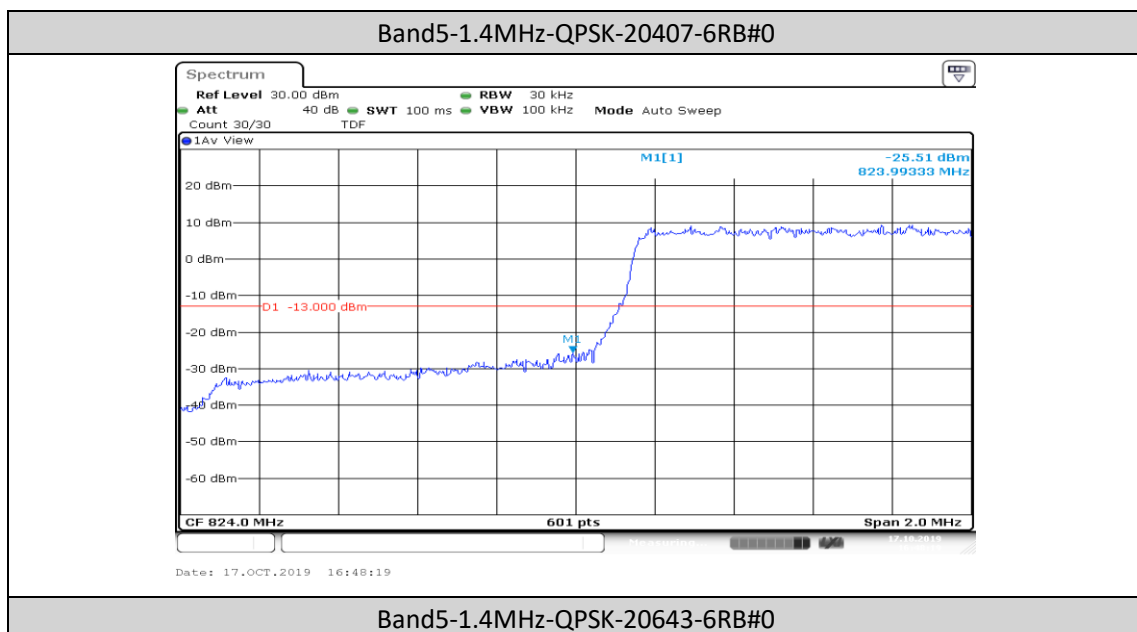
Date: 17.OCT.2019 17:13:07

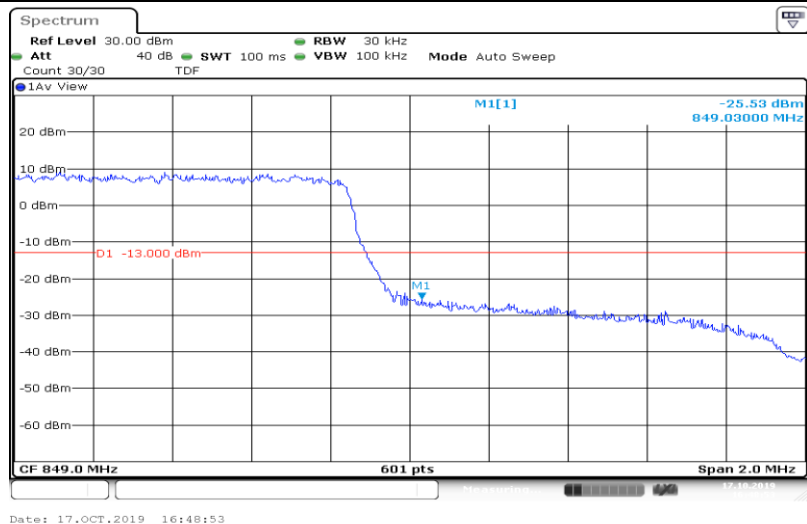
Appendix D: Band Edge

Test Result

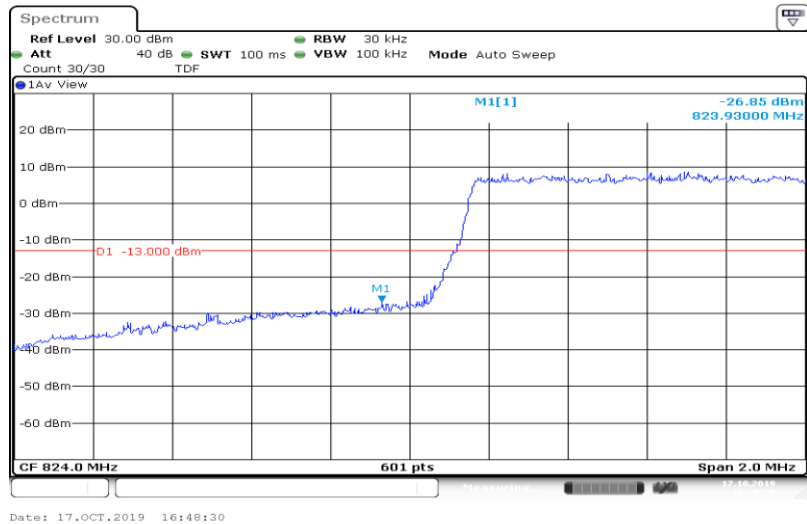
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	-25.51	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-25.53	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-26.85	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-24.07	PASS
Band5	3MHz	QPSK	20415	15RB#0	-23.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	-22.71	PASS
Band5	3MHz	16QAM	20415	15RB#0	-24.15	PASS
Band5	3MHz	16QAM	20635	15RB#0	-24.35	PASS
Band5	5MHz	QPSK	20425	25RB#0	-25.33	PASS
Band5	5MHz	QPSK	20625	25RB#0	-26.03	PASS
Band5	5MHz	16QAM	20425	25RB#0	-26.84	PASS
Band5	5MHz	16QAM	20625	25RB#0	-25.61	PASS
Band5	10MHz	QPSK	20450	50RB#0	-29.13	PASS
Band5	10MHz	QPSK	20600	50RB#0	-28.13	PASS
Band5	10MHz	16QAM	20450	50RB#0	-29.62	PASS
Band5	10MHz	16QAM	20600	50RB#0	-28.80	PASS

Test Graphs

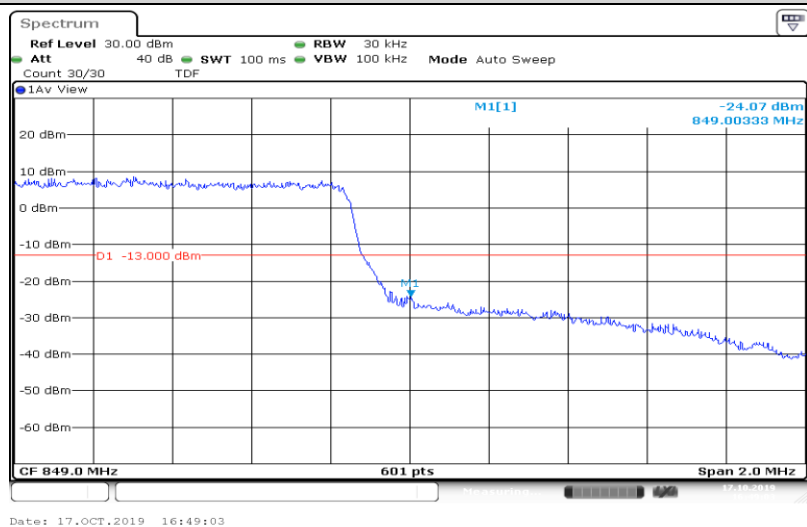




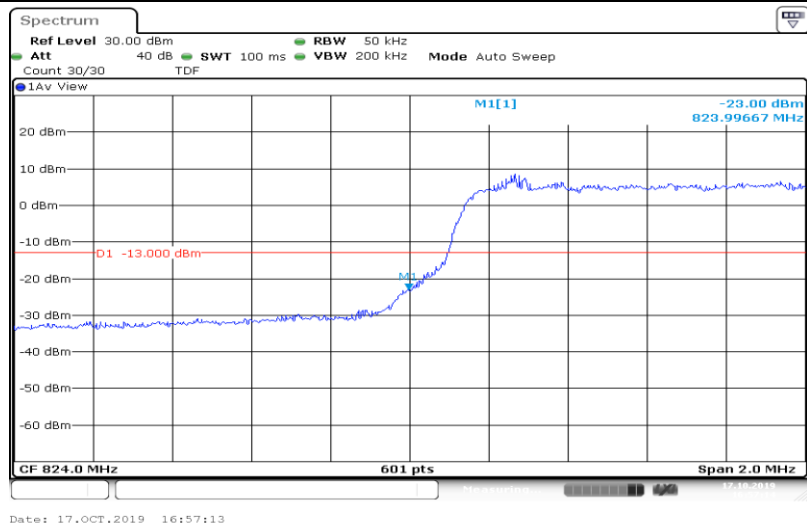
Band5-1.4MHz-16QAM-20407-6RB#0



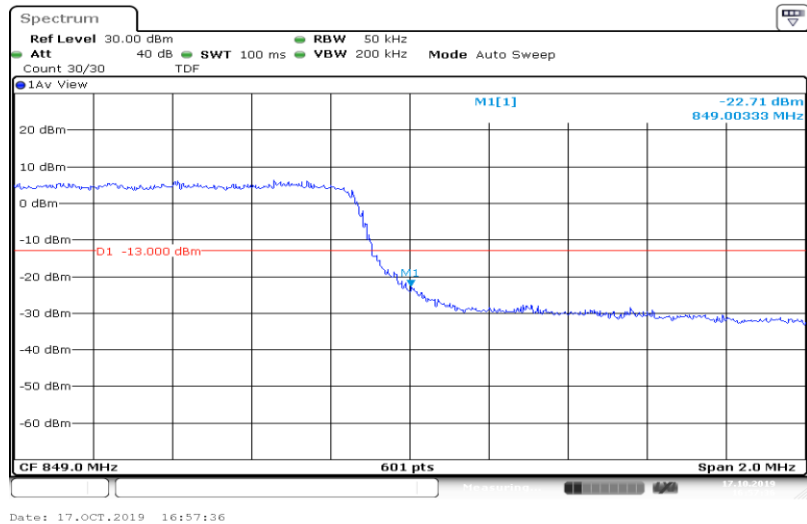
Band5-1.4MHz-16QAM-20643-6RB#0



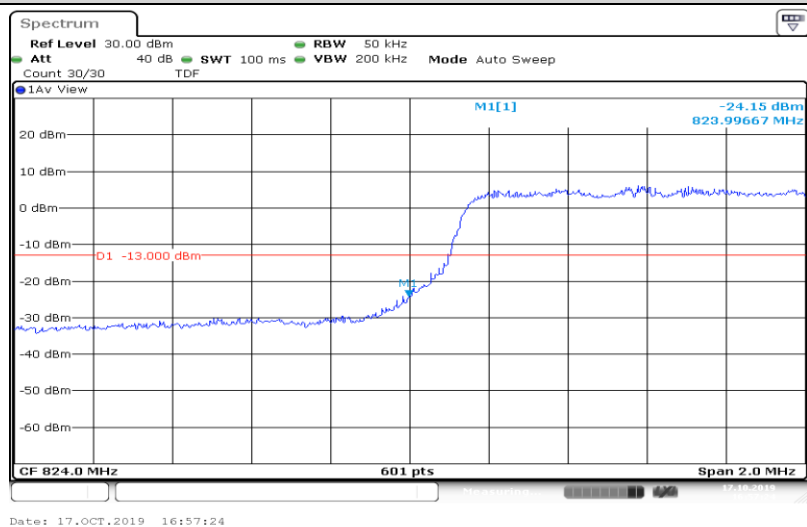
Band5-3MHz-QPSK-20415-15RB#0



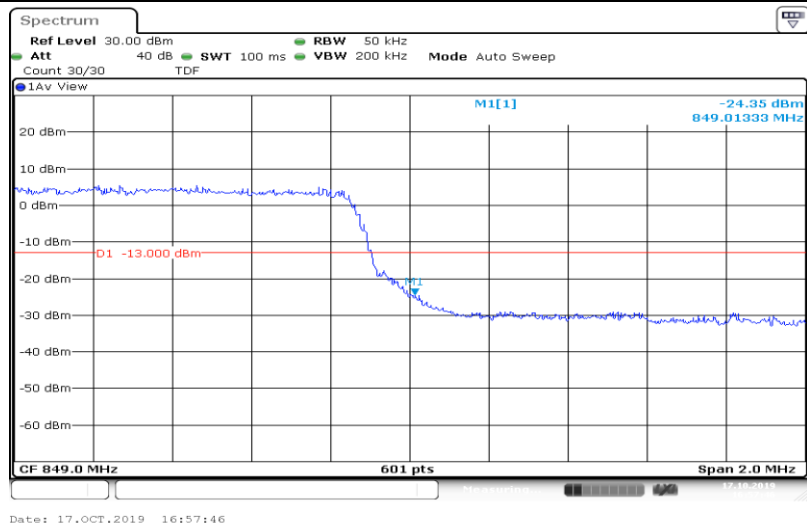
Band5-3MHz-QPSK-20635-15RB#0



Band5-3MHz-16QAM-20415-15RB#0

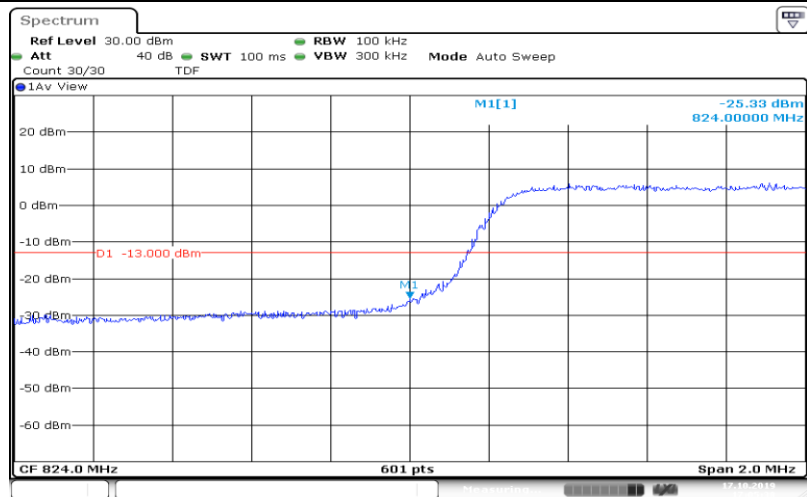


Band5-3MHz-16QAM-20635-15RB#0



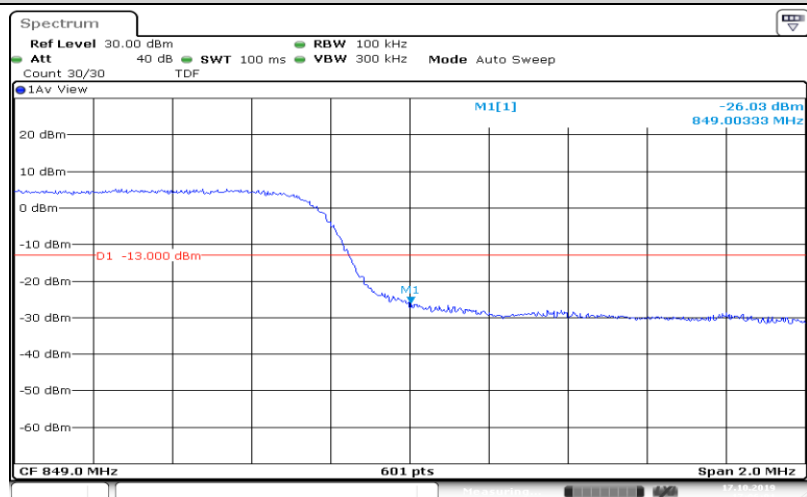
Date: 17.OCT.2019 16:57:46

Band5-5MHz-QPSK-20425-25RB#0



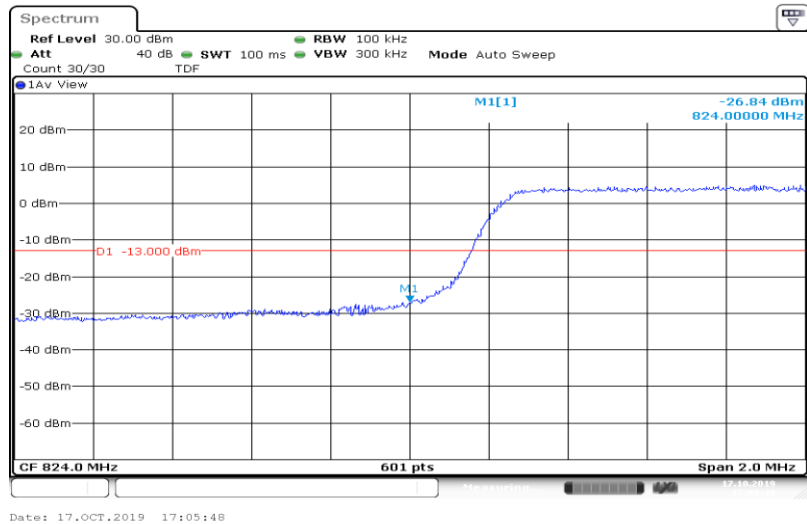
Date: 17.OCT.2019 17:05:38

Band5-5MHz-QPSK-20625-25RB#0

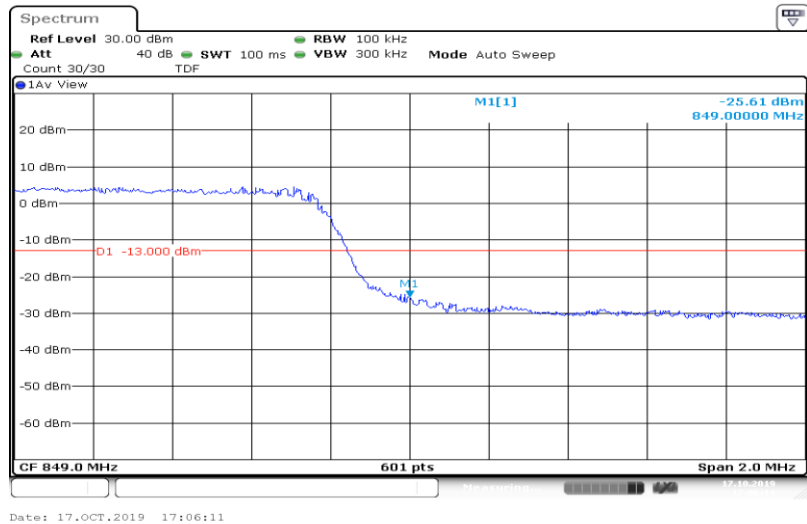


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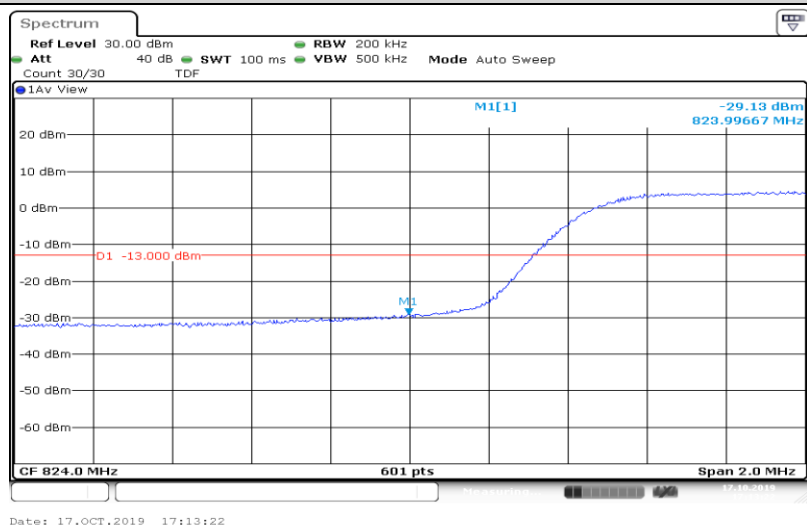
Band5-5MHz-16QAM-20425-25RB#0



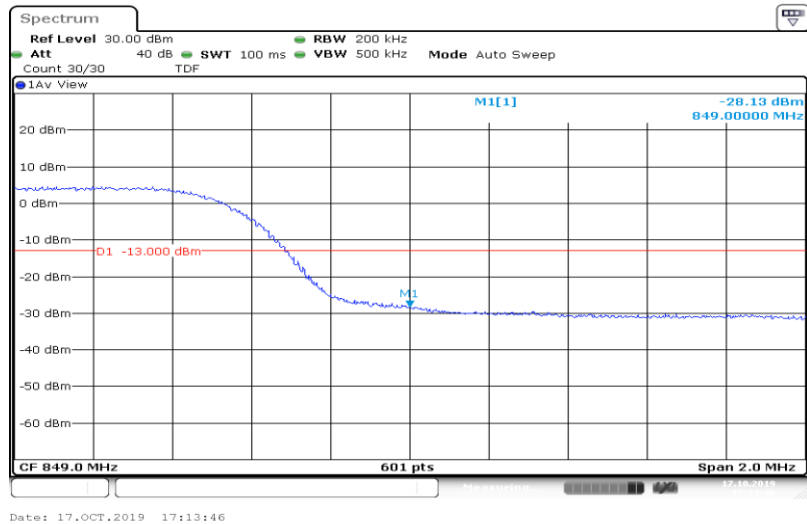
Band5-5MHz-16QAM-20625-25RB#0



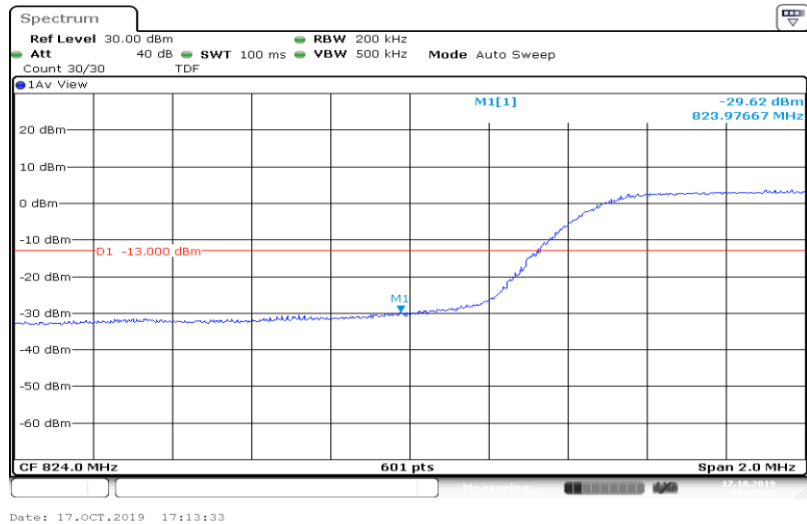
Band5-10MHz-QPSK-20450-50RB#0



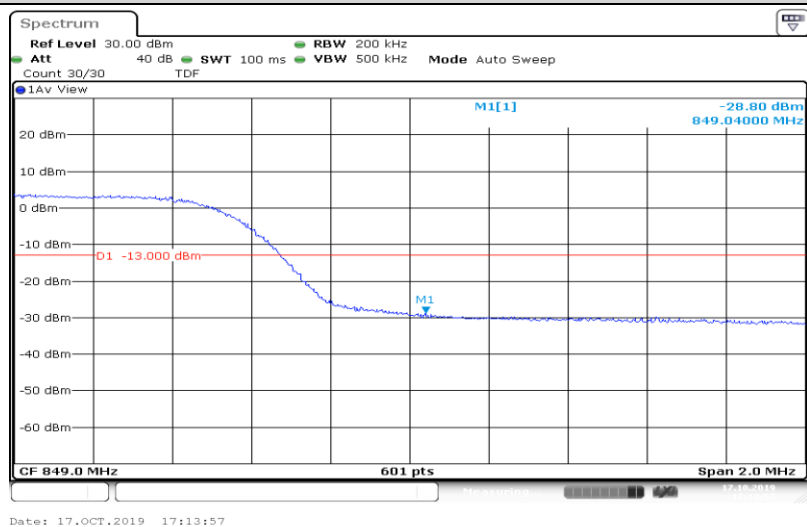
Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band 5	1.4MHz	QPSK	20407	6RB#0	Range1:0.009~0.15MHz	-54.44	PASS
Band 5	1.4MHz	QPSK	20407	6RB#0	Range2:0.15~30MHz	-53.02	PASS
Band 5	1.4MHz	QPSK	20407	6RB#0	Range3:30~1000MHz	-37.13	PASS
Band 5	1.4MHz	QPSK	20407	6RB#0	Range4:1000~10000MHz	-33.05	PASS
Band 5	1.4MHz	QPSK	20525	6RB#0	Range1:0.009~0.15MHz	-54.05	PASS
Band 5	1.4MHz	QPSK	20525	6RB#0	Range2:0.15~30MHz	-52.62	PASS
Band 5	1.4MHz	QPSK	20525	6RB#0	Range3:30~1000MHz	-36.7	PASS
Band 5	1.4MHz	QPSK	20525	6RB#0	Range4:1000~10000MHz	-36.02	PASS
Band 5	1.4MHz	QPSK	20643	6RB#0	Range1:0.009~0.15MHz	-53.49	PASS
Band 5	1.4MHz	QPSK	20643	6RB#0	Range2:0.15~30MHz	-53.91	PASS
Band 5	1.4MHz	QPSK	20643	6RB#0	Range3:30~1000MHz	-37.2	PASS
Band 5	1.4MHz	QPSK	20643	6RB#0	Range4:1000~10000MHz	-35.52	PASS
Band 5	1.4MHz	16QAM	20407	6RB#0	Range1:0.009~0.15MHz	-50.91	PASS
Band 5	1.4MHz	16QAM	20407	6RB#0	Range2:0.15~30MHz	-53.1	PASS
Band 5	1.4MHz	16QAM	20407	6RB#0	Range3:30~1000MHz	-36.97	PASS
Band 5	1.4MHz	16QAM	20407	6RB#0	Range4:1000~10000MHz	-35.45	PASS
Band 5	1.4MHz	16QAM	20525	6RB#0	Range1:0.009~0.15MHz	-50.61	PASS
Band	1.4MHz	16QAM	20525	6RB#0	Range2:0.15~30MHz	-53.2	PASS

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Band 5	1.4MHz	16QAM	20525	6RB#0	Range3:30~1000MHz	-37.18	PASS
Band 5	1.4MHz	16QAM	20525	6RB#0	Range4:1000~10000MHz	-32.3	PASS
Band 5	1.4MHz	16QAM	20643	6RB#0	Range1:0.009~0.15MHz	-48.61	PASS
Band 5	1.4MHz	16QAM	20643	6RB#0	Range2:0.15~30MHz	-51.25	PASS
Band 5	1.4MHz	16QAM	20643	6RB#0	Range3:30~1000MHz	-36.97	PASS
Band 5	1.4MHz	16QAM	20643	6RB#0	Range4:1000~10000MHz	-34.85	PASS
Band 5	3MHz	QPSK	20415	15RB#0	Range1:0.009~0.15MHz	-54.73	PASS
Band 5	3MHz	QPSK	20415	15RB#0	Range2:0.15~30MHz	-54.05	PASS
Band 5	3MHz	QPSK	20415	15RB#0	Range3:30~1000MHz	-37.4	PASS
Band 5	3MHz	QPSK	20415	15RB#0	Range4:1000~10000MHz	-38.35	PASS
Band 5	3MHz	QPSK	20525	15RB#0	Range1:0.009~0.15MHz	-59.53	PASS
Band 5	3MHz	QPSK	20525	15RB#0	Range2:0.15~30MHz	-52.68	PASS
Band 5	3MHz	QPSK	20525	15RB#0	Range3:30~1000MHz	-37.32	PASS
Band 5	3MHz	QPSK	20525	15RB#0	Range4:1000~10000MHz	-38.16	PASS
Band 5	3MHz	QPSK	20635	15RB#0	Range1:0.009~0.15MHz	-56.98	PASS
Band 5	3MHz	QPSK	20635	15RB#0	Range2:0.15~30MHz	-53.79	PASS
Band 5	3MHz	QPSK	20635	15RB#0	Range3:30~1000MHz	-37.22	PASS
Band 5	3MHz	QPSK	20635	15RB#0	Range4:1000~10000MHz	-38.7	PASS
Band 5	3MHz	16QAM	20415	15RB#0	Range1:0.009~0.15MHz	-52.36	PASS
Band 5	3MHz	16QAM	20415	15RB#0	Range2:0.15~30MHz	-54.35	PASS
Band 5	3MHz	16QAM	20415	15RB#0	Range3:30~1000MHz	-37.05	PASS