

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#12	23.54	24.04	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.60	24.1	PASS
Band13	5MHz	QPSK	23205	1RB#0	23.57	24.07	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.76	23.26	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.75	23.25	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.71	23.21	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.64	23.14	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.80	24.3	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.66	24.16	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.63	24.13	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.73	23.23	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.71	23.21	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.71	23.21	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.64	23.14	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.53	24.03	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.71	24.21	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.59	24.09	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.68	23.18	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.69	23.19	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.70	23.2	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.70	23.2	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.05	22.55	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.14	22.64	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.06	22.56	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.55	22.05	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.51	22.01	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.51	22.01	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.68	22.18	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.21	22.71	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.50	23	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.64	23.14	PASS

Band13	5MHz	16QAM	23230	12RB#13	21.53	22.03	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.70	22.2	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.61	22.11	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.55	22.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.35	22.85	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.35	22.85	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.46	22.96	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.39	21.89	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.40	21.9	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.36	21.86	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.71	22.21	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.52	24.02	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.03	24.53	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.57	24.07	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.64	23.14	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.65	23.15	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.72	23.22	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.73	23.23	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.45	22.95	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.84	23.34	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.38	22.88	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.60	22.1	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.60	22.1	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.63	22.13	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.57	23.07	PASS

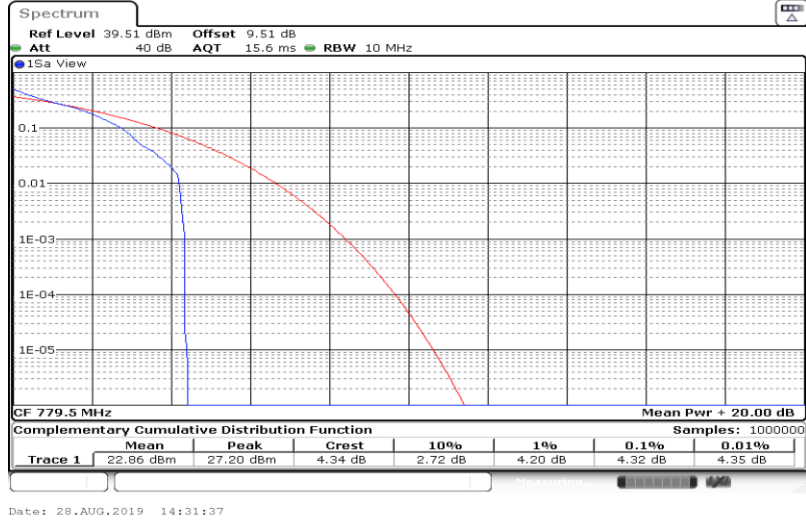
AppendixB:Peak-to-Average Ratio(CCDF)

Test Result

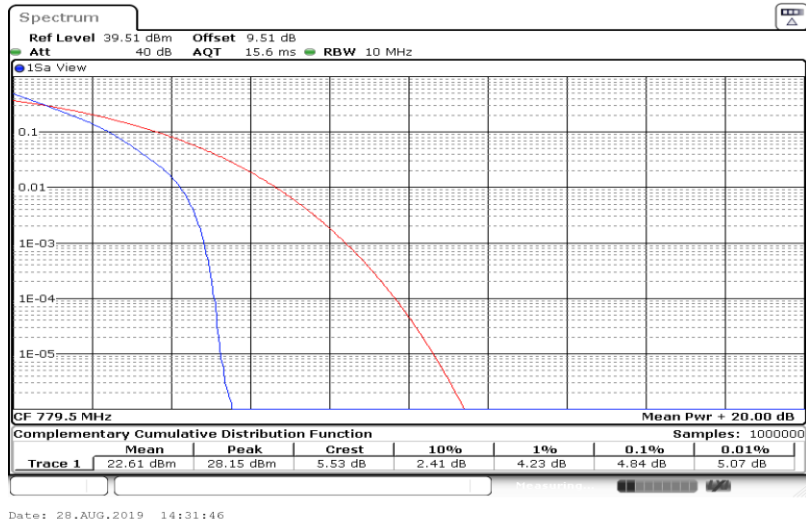
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.32	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.84	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.14	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.84	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.12	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.96	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.16	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.68	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.84	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.74	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.13	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.74	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.17	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.64	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.19	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.43	13	PASS

Test Graphs

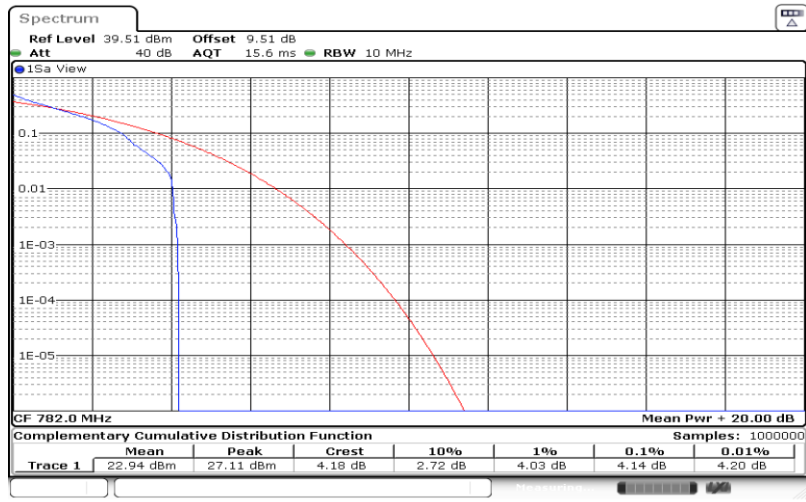
Band13-5MHz-QPSK-23205-1RB#0



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

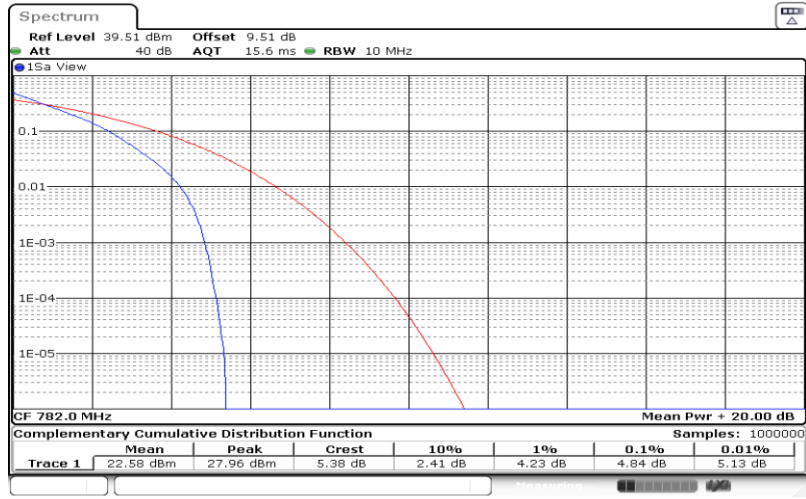


Band13-5MHz-QPSK-23230-1RB#0



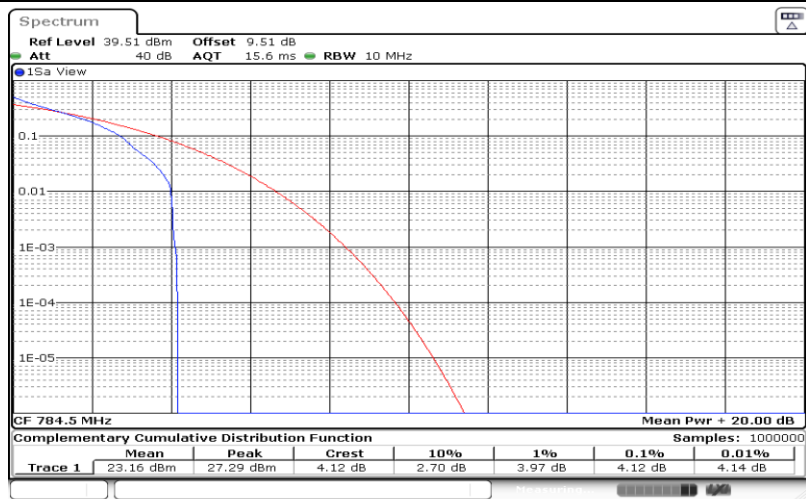
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Band13-5MHz-QPSK-23230-25RB#0



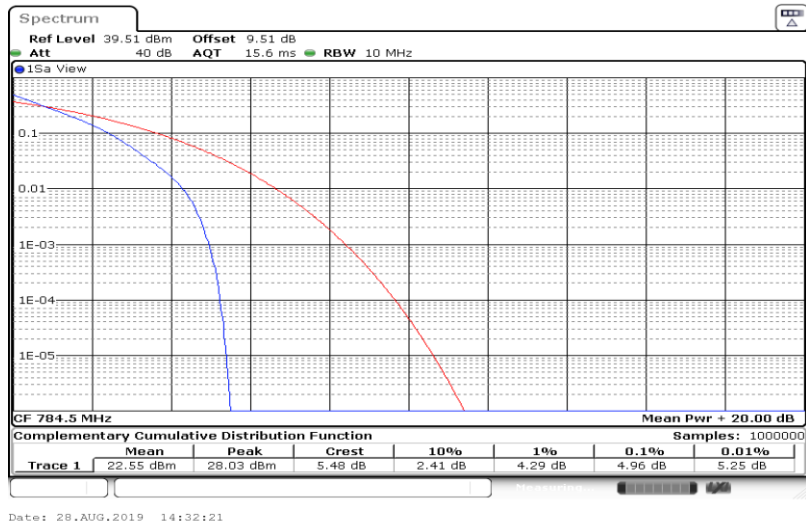
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Band13-5MHz-QPSK-23255-1RB#0



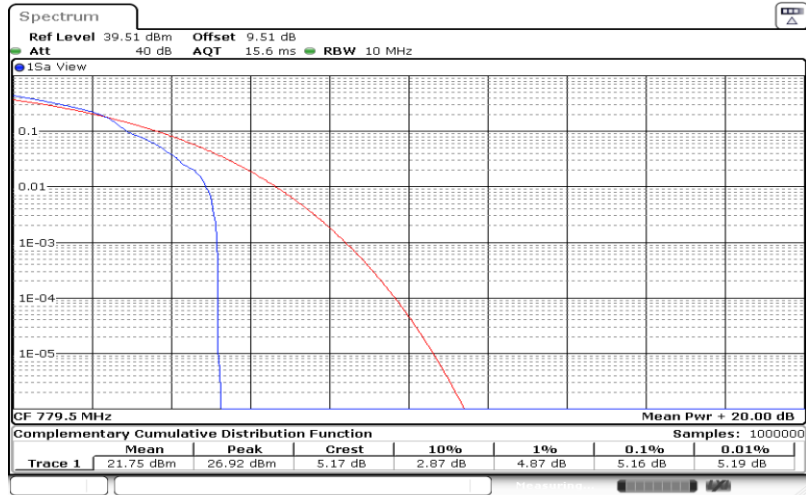
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Band13-5MHz-QPSK-23255-25RB#0



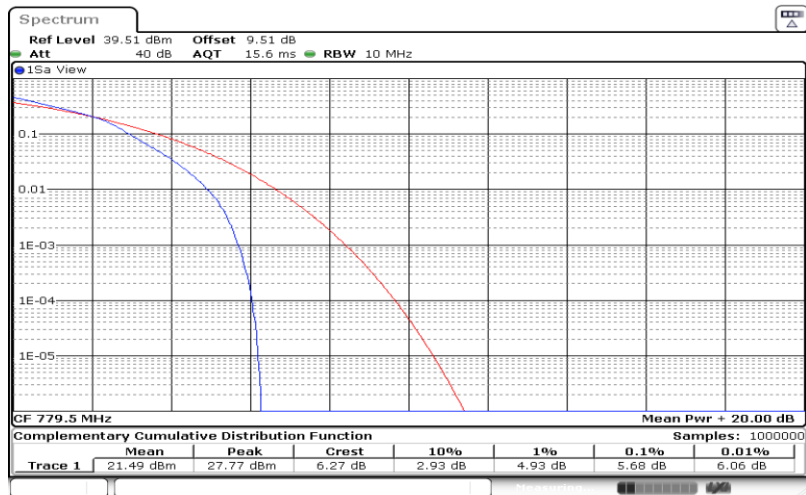
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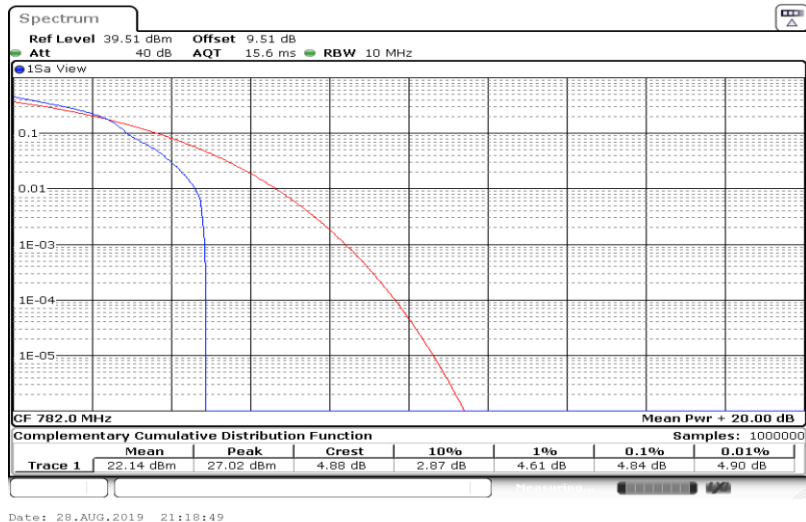
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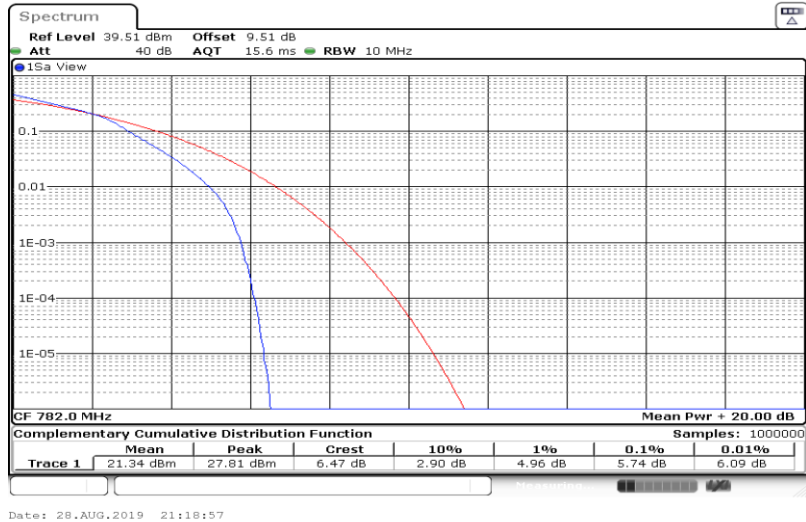
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Band13-5MHz-16QAM-23230-1RB#0



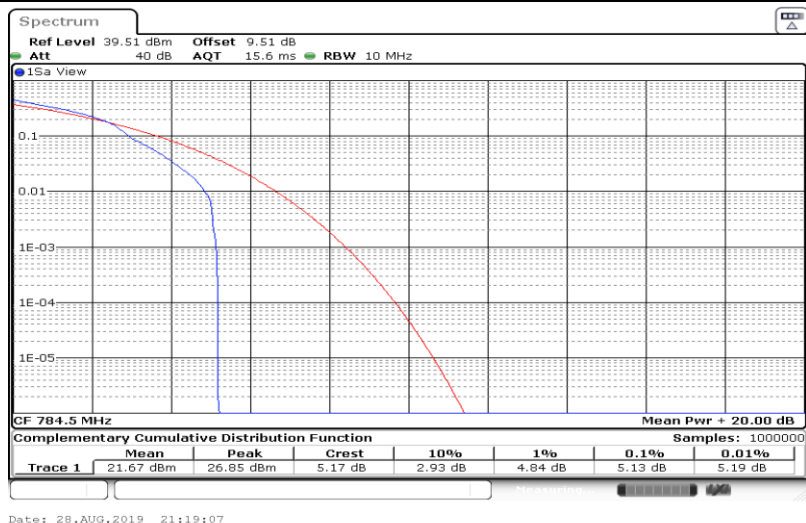
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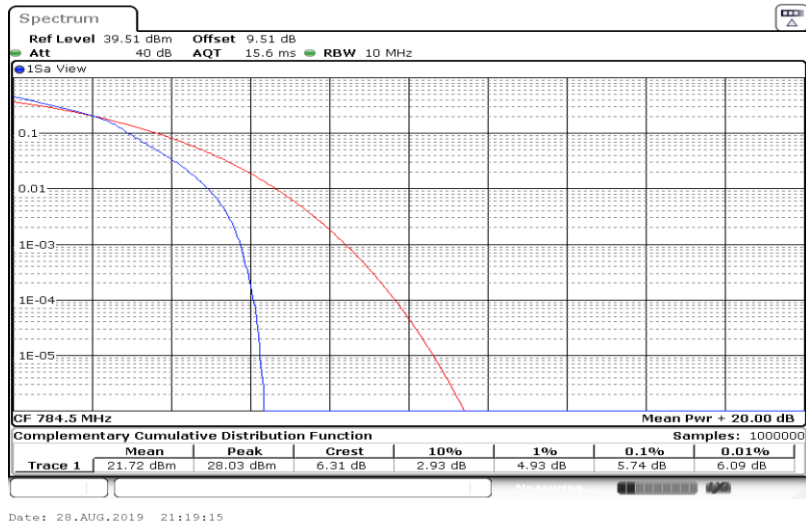
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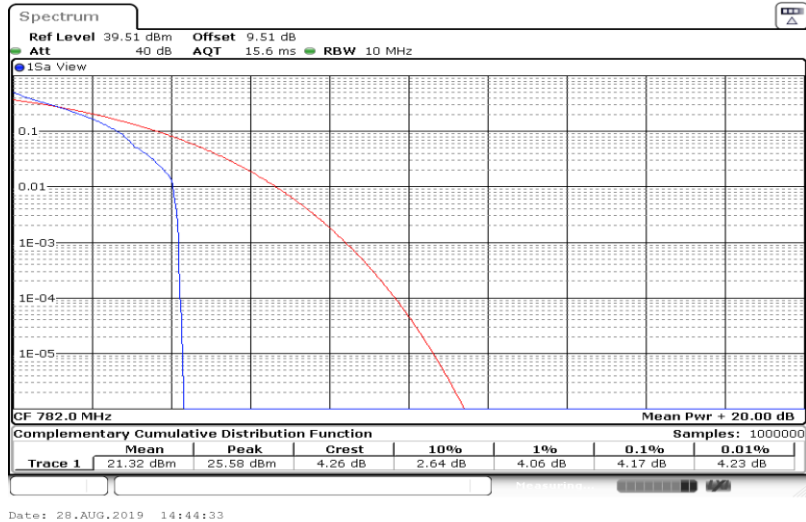


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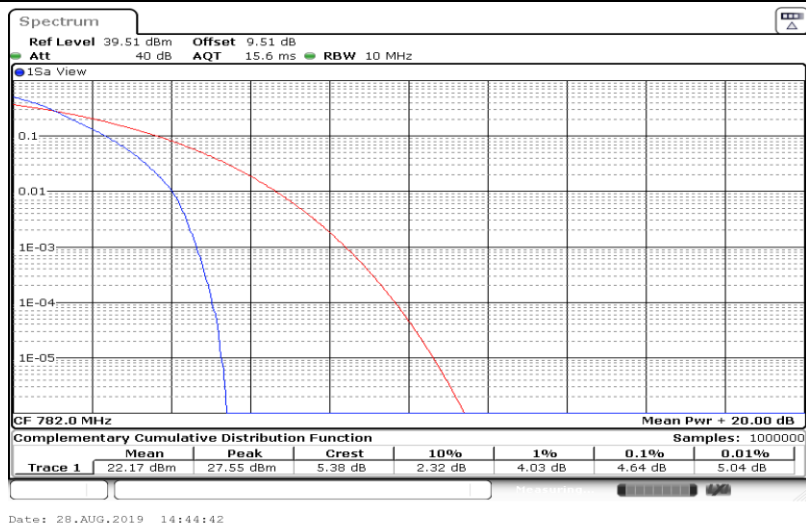
Band13-5MHz-16QAM-23255-25RB#0



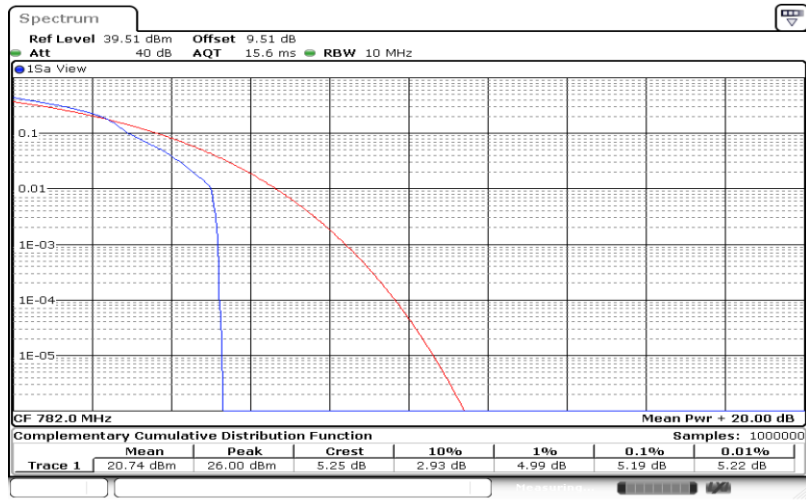
Band13-10MHz-QPSK-23230-1RB#0



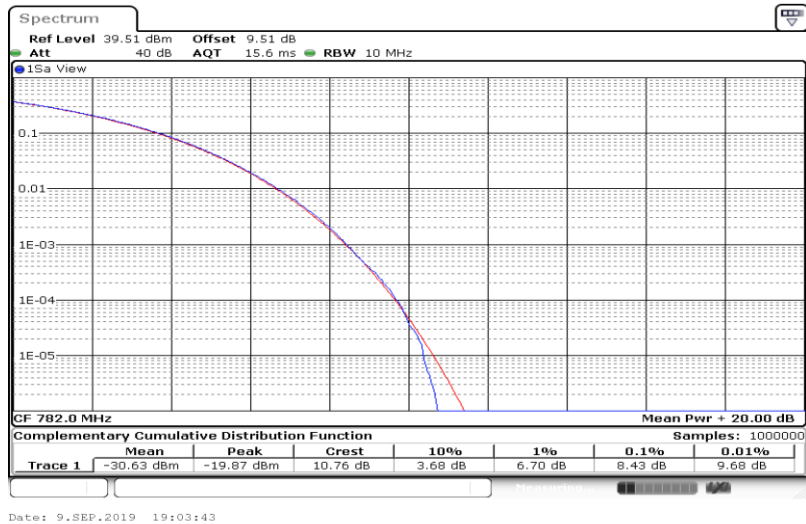
Band13-10MHz-QPSK-23230-50RB#0



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



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



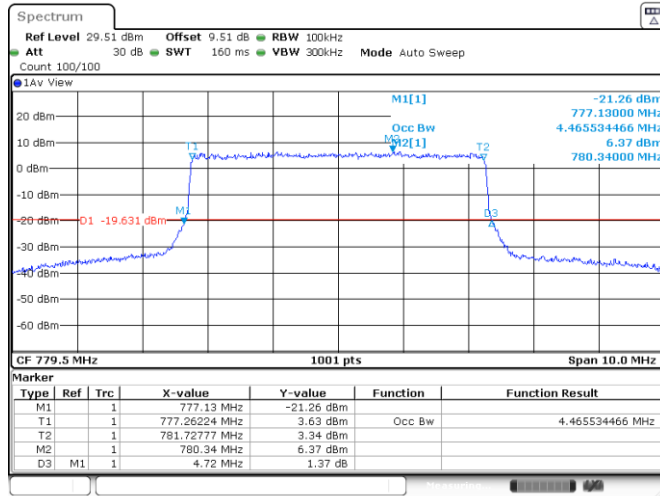
AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.466	4.720	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.690	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.466	4.720	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.700	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	4.690	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.466	4.760	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.918	9.200	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.918	9.233	PASS

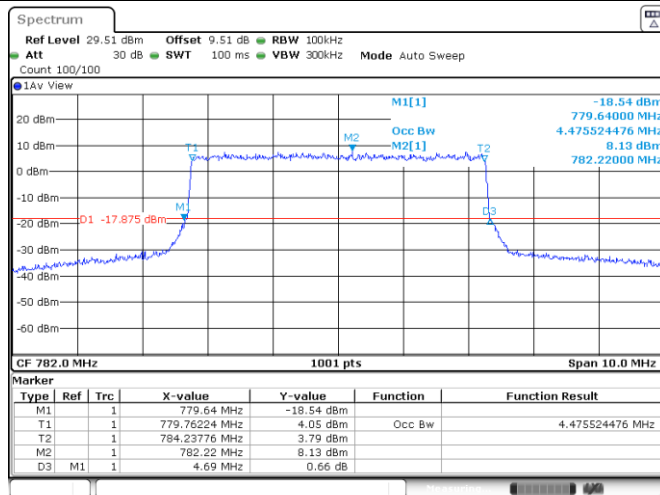
Test Graphs

Band13-5MHz-QPSK-23205-25RB#0-4.466



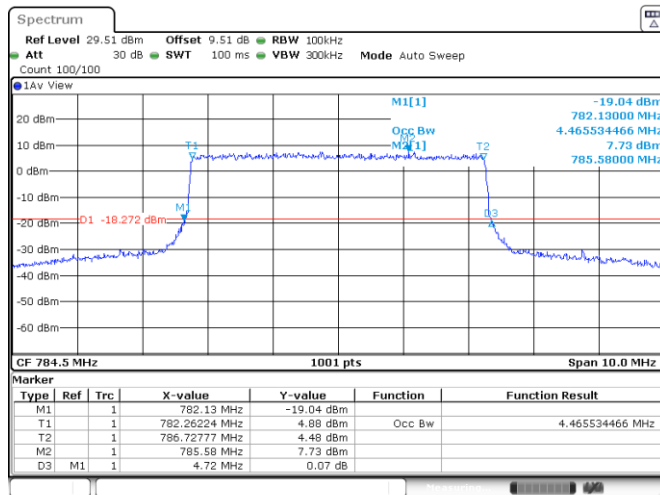
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Band13-5MHz-QPSK-23230-25RB#0-4.476



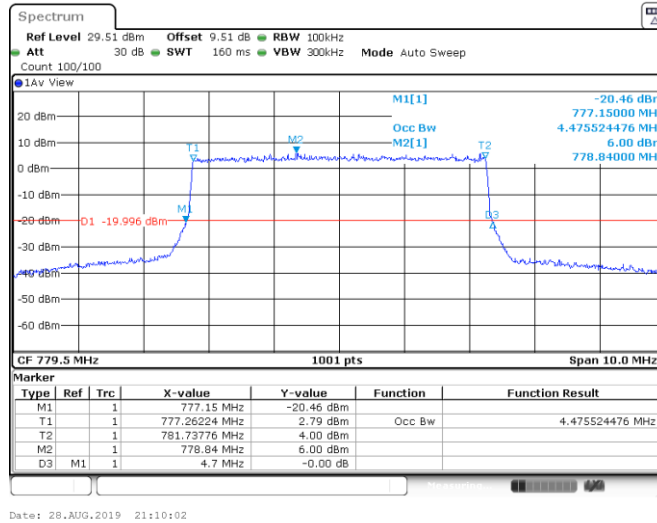
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Band13-5MHz-QPSK-23255-25RB#0-4.466



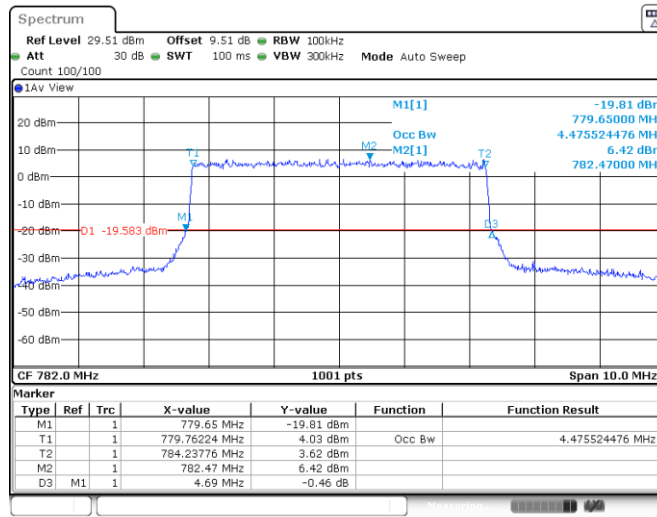
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Band13-5MHz-16QAM-23205-25RB#0-4.476



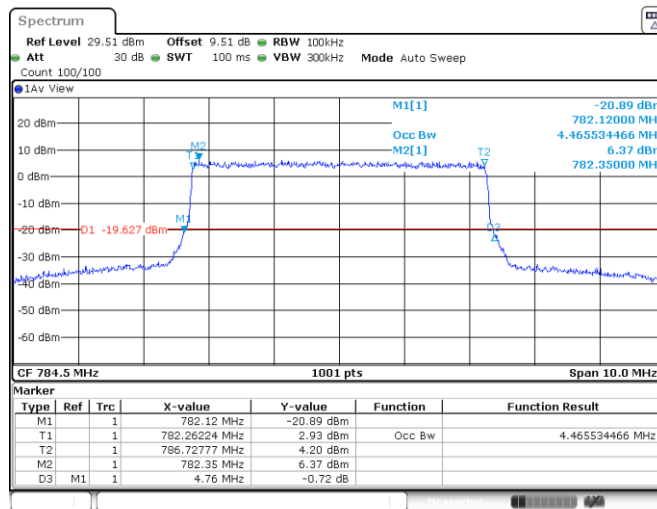
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Band13-5MHz-16QAM-23230-25RB#0-4.476



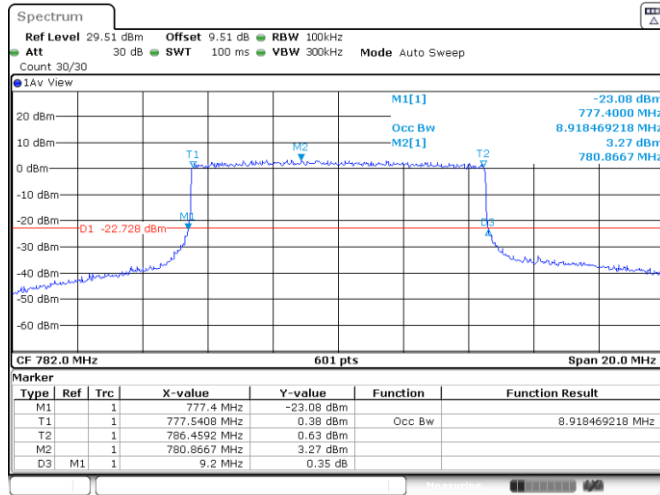
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Band13-5MHz-16QAM-23255-25RB#0-4.466

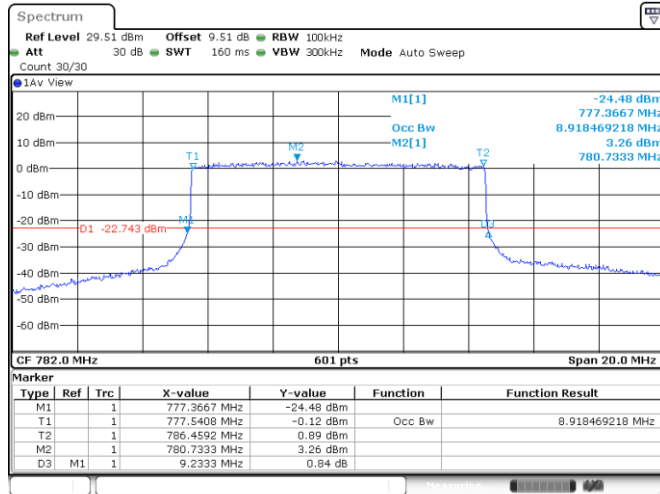


Date: 28.AUG.2019 21:10:38

Band13-10MHz-QPSK-23230-50RB#0-8.918

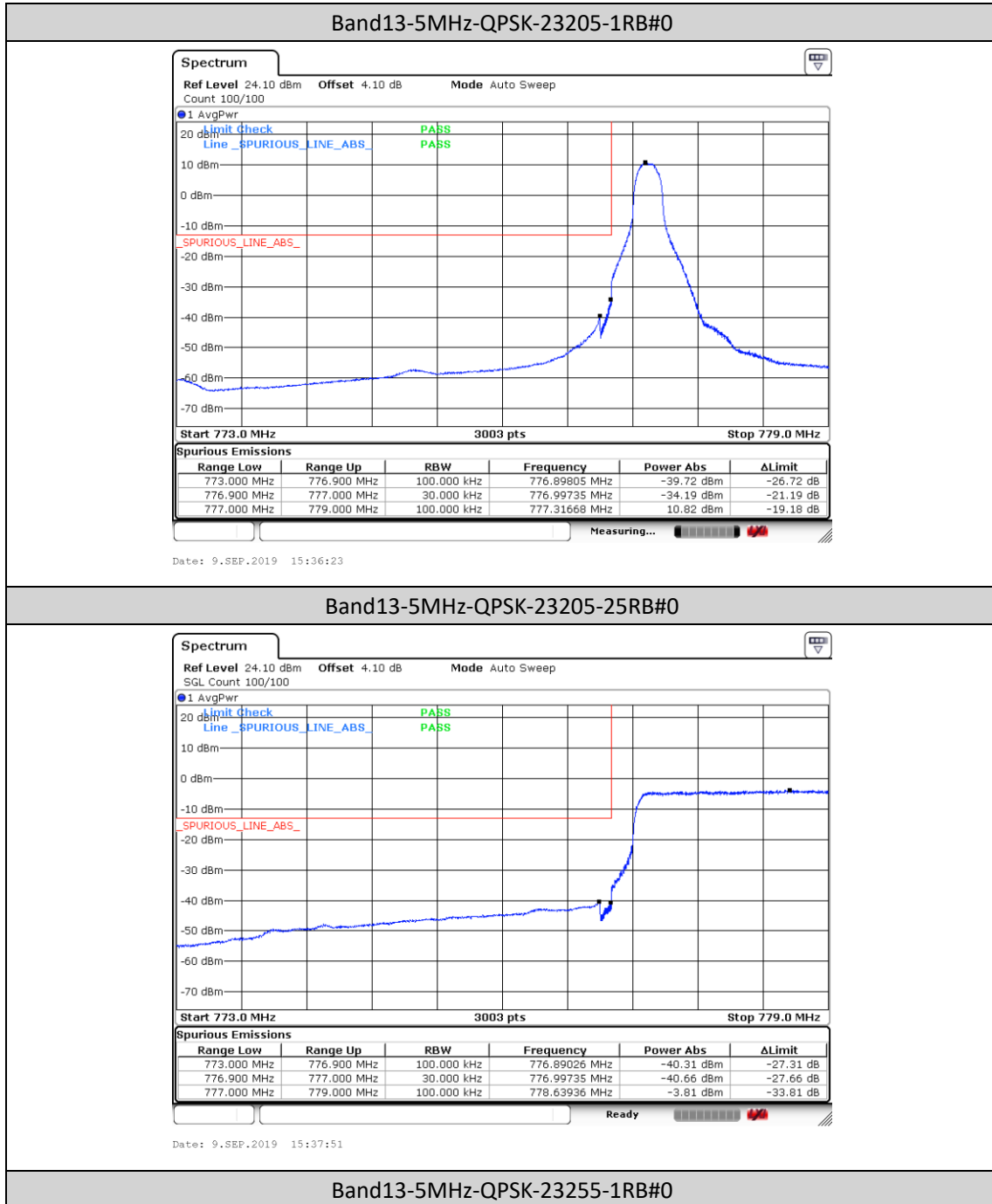


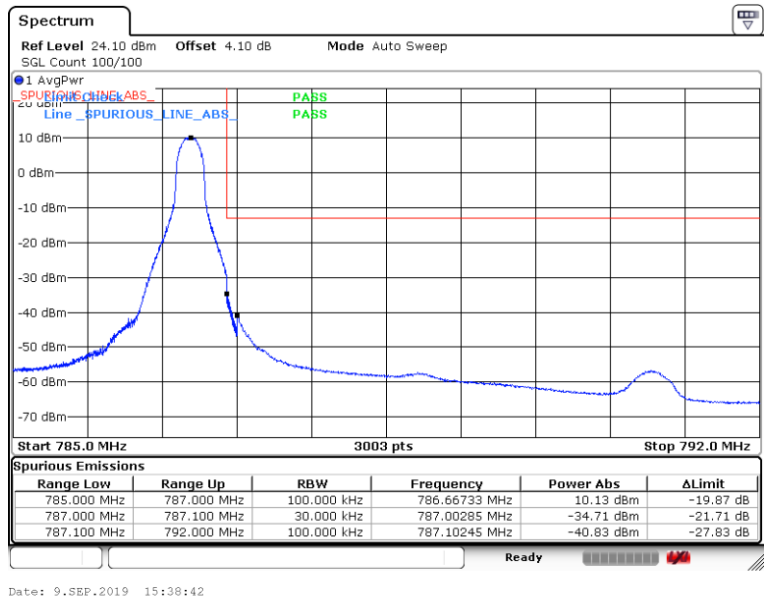
Band13-10MHz-16QAM-23230-50RB#0-8.918



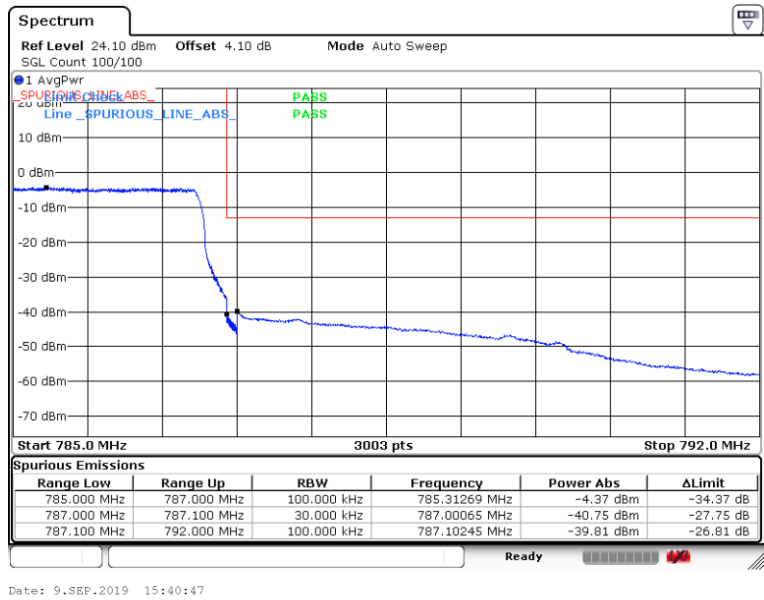
AppendixD:Band Edge

Test Result

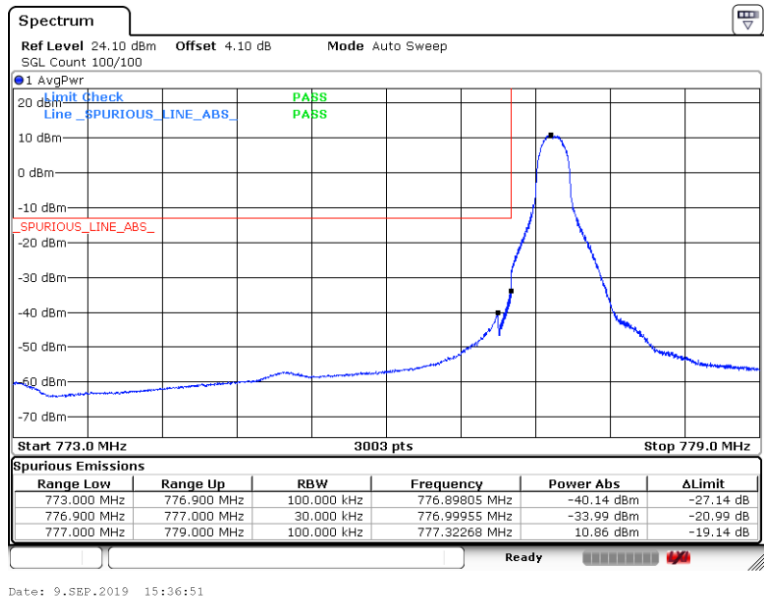




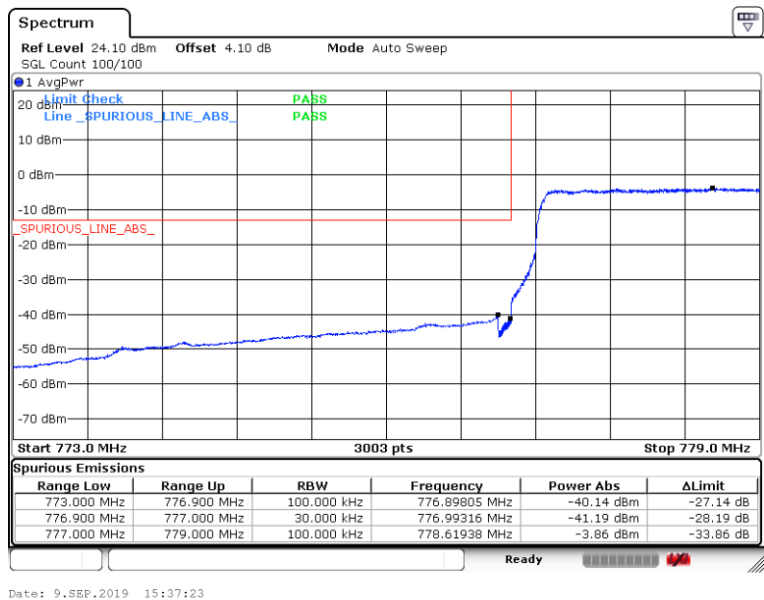
Band13-5MHz-QPSK-23255-25RB#0



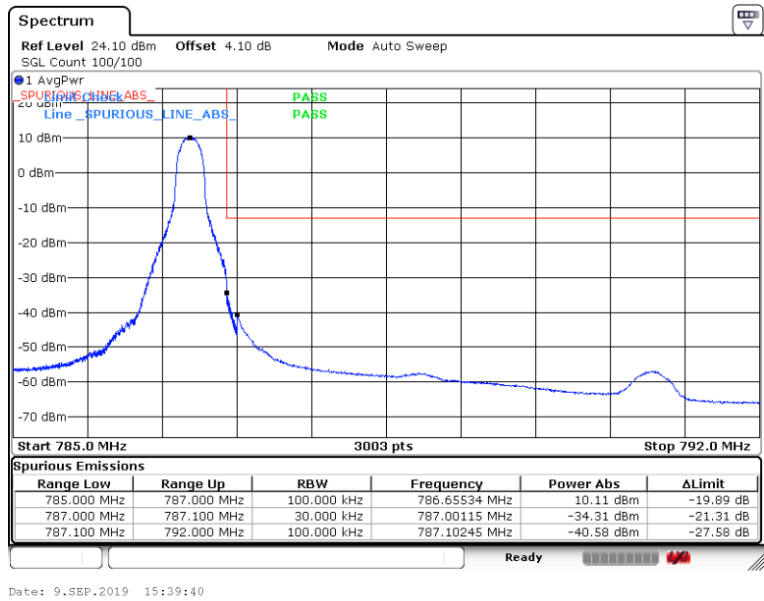
Band13-5MHz-16QAM-23205-1RB#0



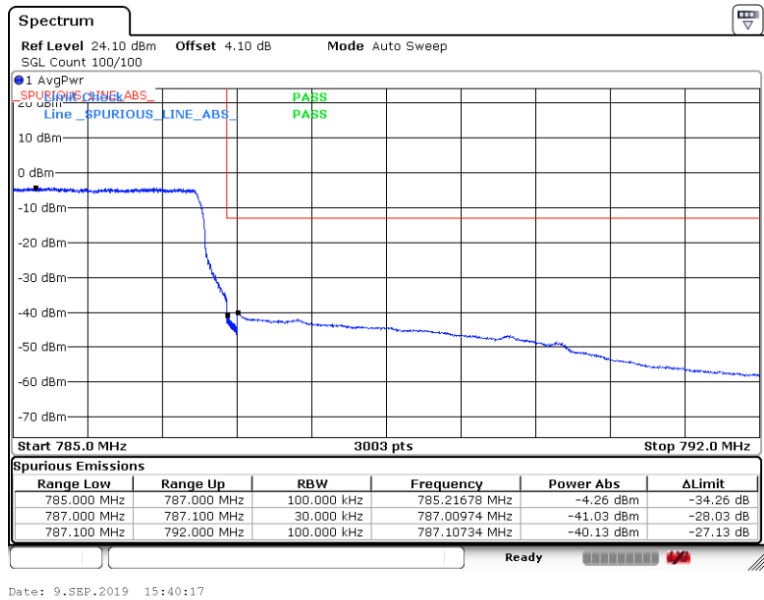
Band13-5MHz-16QAM-23205-25RB#0



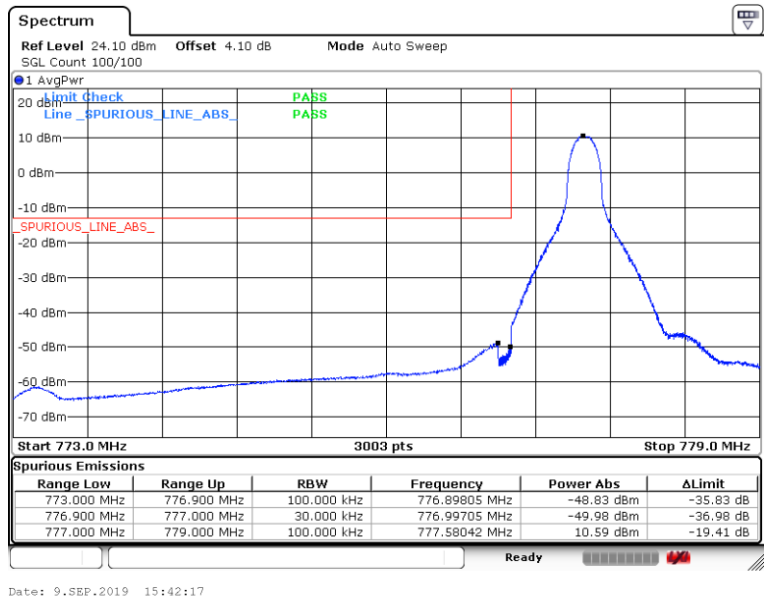
Band13-5MHz-16QAM-23255-1RB#0



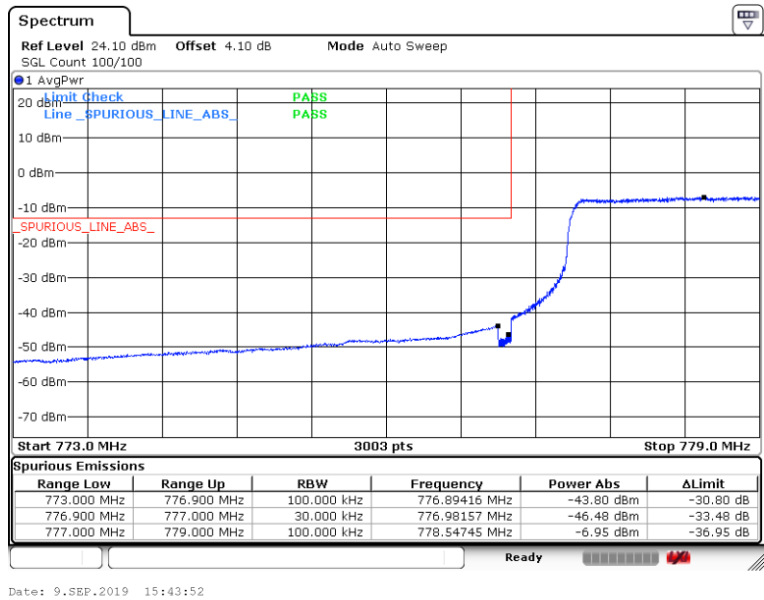
Band13-5MHz-16QAM-23255-25RB#0



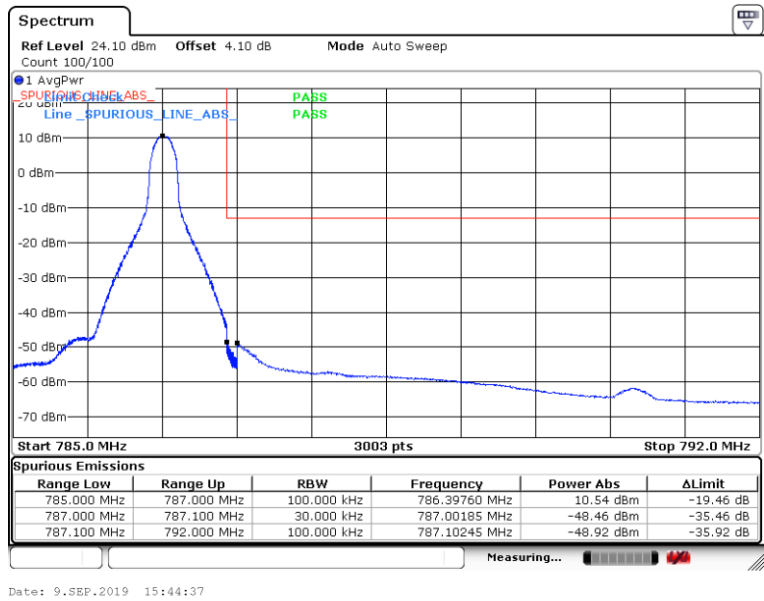
Band13-10MHz-QPSK-23230-1RB#0



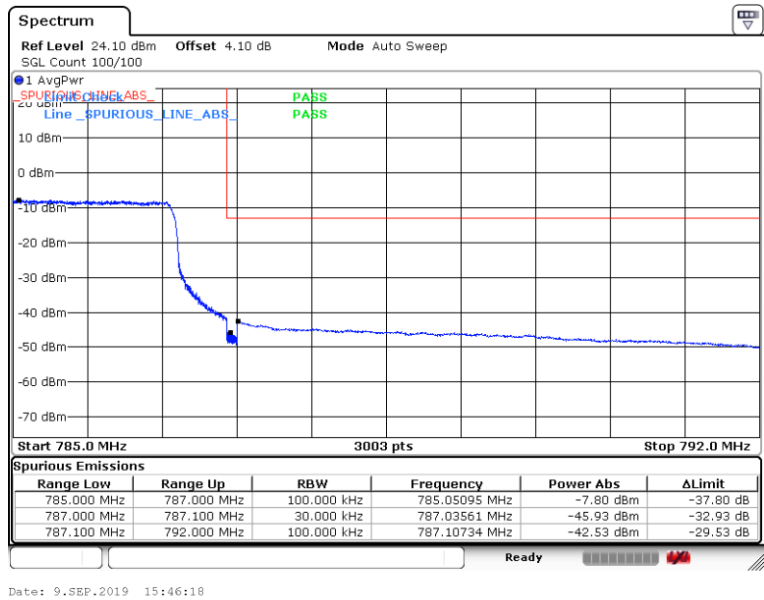
Band13-10MHz-QPSK-23230-50RB#0



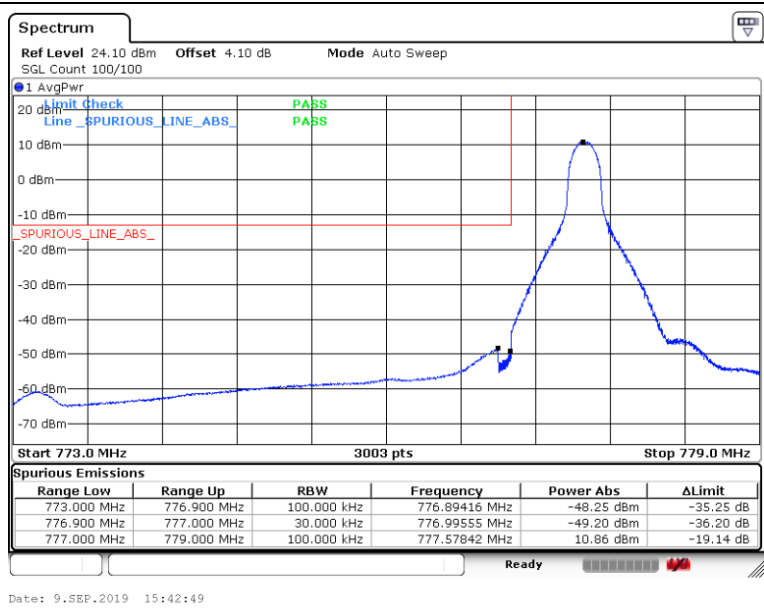
Band13-10MHz-QPSK-23230-1RB#0



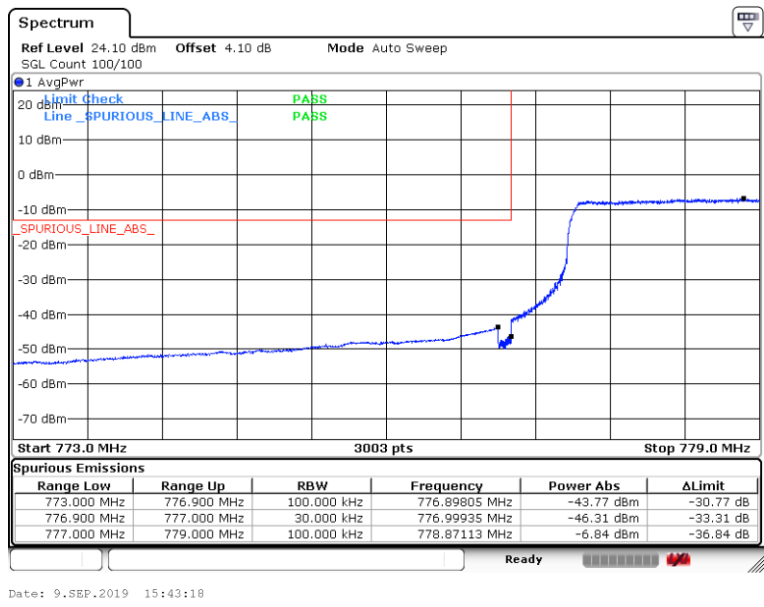
Band13-10MHz-QPSK-23230-50RB#0



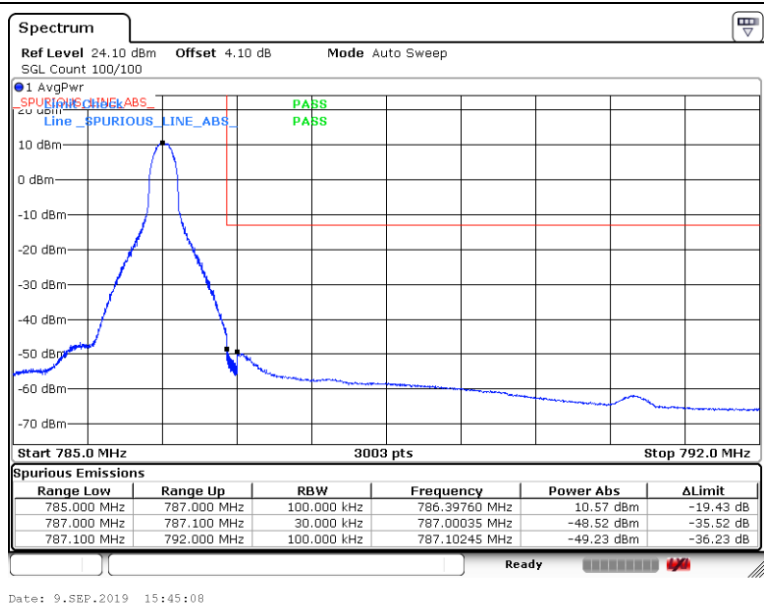
Band13-10MHz-16QAM-23230-1RB#0



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

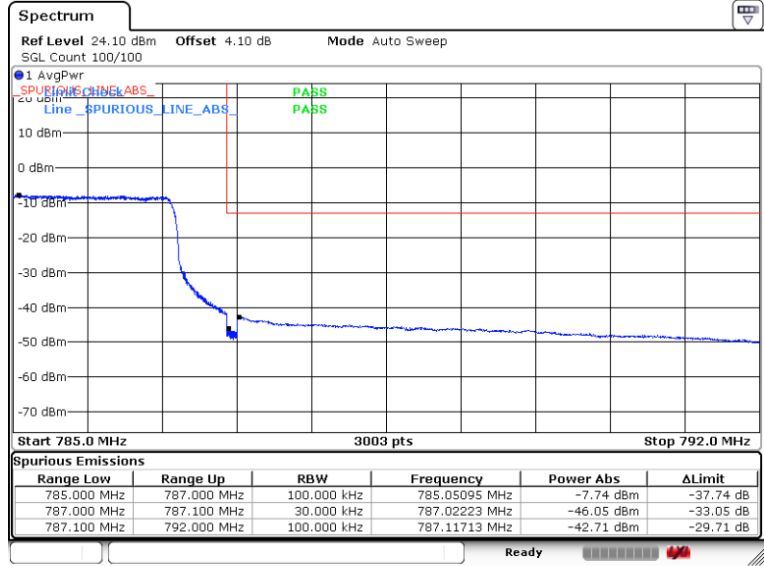


Band13-10MHz-16QAM-23230-1RB#0



Date: 9.SEP.2019 15:45:08

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



Date: 9.SEP.2019 15:45:43

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band1 3	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-38.1 2	PASS
Band1 3	5MHz	QPSK	23205	1RB#0	Range2:1000~5000MHz	-41.5 1	PASS
Band1 3	5MHz	QPSK	23205	1RB#0	Range3:5000~12000MHz	-50.9 9	PASS
Band1 3	5MHz	QPSK	23205	1RB#0	Range4:12000~26500MHz	-42.4	PASS
Band1 3	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-37.8 1	PASS
Band1 3	5MHz	QPSK	23230	1RB#0	Range2:1000~5000MHz	-41.3 8	PASS
Band1 3	5MHz	QPSK	23230	1RB#0	Range3:5000~12000MHz	-50.8 1	PASS
Band1 3	5MHz	QPSK	23230	1RB#0	Range4:12000~26500MHz	-42.4	PASS
Band1 3	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-37.7 1	PASS
Band1 3	5MHz	QPSK	23255	1RB#0	Range2:1000~5000MHz	-41.5 8	PASS
Band1 3	5MHz	QPSK	23255	1RB#0	Range3:5000~12000MHz	-50.8 3	PASS
Band1 3	5MHz	QPSK	23255	1RB#0	Range4:12000~26500MHz	-42.2 9	PASS
Band1 3	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-37.7 3	PASS
Band1 3	5MHz	16QAM	23205	1RB#0	Range2:1000~5000MHz	-41.6 6	PASS
Band1 3	5MHz	16QAM	23205	1RB#0	Range3:5000~12000MHz	-51.0 3	PASS
Band1 3	5MHz	16QAM	23205	1RB#0	Range4:12000~26500MHz	-42.3	PASS
Band1 3	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-37.9 5	PASS
Band1	5MHz	16QAM	23230	1RB#0	Range2:1000~5000MHz	-41.5	PASS

3						9	
Band1 3	5MHz	16QAM	23230	1RB#0	Range3:5000~12000M Hz	-50.9 5	PASS
Band1 3	5MHz	16QAM	23230	1RB#0	Range4:12000~26500M Hz	-42.4 6	PASS
Band1 3	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-37.8 2	PASS
Band1 3	5MHz	16QAM	23255	1RB#0	Range2:1000~5000MHz	-41.6 4	PASS
Band1 3	5MHz	16QAM	23255	1RB#0	Range3:5000~12000M Hz	-50.9 9	PASS
Band1 3	5MHz	16QAM	23255	1RB#0	Range4:12000~26500M Hz	-42.4 3	PASS
Band1 3	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-38.1 1	PASS
Band1 3	10MHz	QPSK	23230	1RB#0	Range2:1000~5000MHz	-41.5 4	PASS
Band1 3	10MHz	QPSK	23230	1RB#0	Range3:5000~12000M Hz	-51.0 3	PASS
Band1 3	10MHz	QPSK	23230	1RB#0	Range4:12000~26500M Hz	-42.3 4	PASS
Band1 3	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-37.3 7	PASS
Band1 3	10MHz	16QAM	23230	1RB#0	Range2:1000~5000MHz	-41.0 2	PASS
Band1 3	10MHz	16QAM	23230	1RB#0	Range3:5000~12000M Hz	-50.5 3	PASS
Band1 3	10MHz	16QAM	23230	1RB#0	Range4:12000~26500M Hz	-42.0 1	PASS

Test Graphs

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	VL	NT	-4.89	-0.006273	±2.5	PASS
Band13	5MHz	QPSK	23205	1RB#0	VN	NT	-5.19	-0.006658	±2.5	PASS
Band13	5MHz	QPSK	23205	1RB#0	VH	NT	-5.24	-0.006722	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	VL	NT	3.56	0.004552	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	VN	NT	-3.43	-0.004386	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	VH	NT	-3.89	-0.004974	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	VL	NT	-2.16	-0.002753	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	VN	NT	3.03	0.003862	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	VH	NT	2.40	0.003059	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	VL	NT	-3.85	-0.004939	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	VN	NT	-4.42	-0.005670	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	VH	NT	-4.12	-0.005285	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	VL	NT	3.49	0.004463	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	VN	NT	3.29	0.004207	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	VH	NT	3.40	0.004348	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	VL	NT	3.35	0.004270	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	VN	NT	3.75	0.004780	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	VH	NT	3.03	0.003862	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	VL	NT	2.90	0.003708	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	VN	NT	-3.62	-0.004629	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	VH	NT	-3.85	-0.004923	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	VL	NT	-9.03	-0.011547	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	VN	NT	-8.88	-0.011355	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	VH	NT	-8.38	-0.010716	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	NV	-30	-4.56	-0.005850	±2.5	PASS
Band13	5MHz	QPSK	23205	1RB#0	NV	-20	-4.62	-0.005927	±2.5	PASS
Band13	5MHz	QPSK	23205	1RB#0	NV	0	-4.09	-0.005247	±2.5	PASS
Band13	5MHz	QPSK	23205	1RB#0	NV	10	-4.72	-0.006055	±2.5	PASS
Band13	5MHz	QPSK	23205	1RB#0	NV	20	-3.25	-0.004169	±2.5	PASS

Band13	5MHz	QPSK	23230	1RB#0	NV	-30	-3.59	-0.004591	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	NV	-20	-4.48	-0.005729	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	NV	0	2.99	0.003824	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	NV	10	-3.82	-0.004885	±2.5	PASS
Band13	5MHz	QPSK	23230	1RB#0	NV	20	-4.35	-0.005563	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	NV	-30	-2.49	-0.003174	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	NV	-20	-2.56	-0.003263	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	NV	0	-4.11	-0.005239	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	NV	10	-3.49	-0.004449	±2.5	PASS
Band13	5MHz	QPSK	23255	1RB#0	NV	20	2.45	0.003123	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	NV	-30	-5.42	-0.006953	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	NV	-20	-4.58	-0.005876	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	NV	0	-6.45	-0.008275	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	NV	10	-5.52	-0.007081	±2.5	PASS
Band13	5MHz	16QAM	23205	1RB#0	NV	20	-6.01	-0.007710	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	NV	-30	3.73	0.004770	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	NV	-20	3.36	0.004297	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	NV	0	2.95	0.003772	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	NV	10	3.03	0.003875	±2.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	NV	20	3.50	0.004476	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	NV	-30	-2.16	-0.002753	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	NV	-20	-3.20	-0.004079	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	NV	0	3.25	0.004143	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	NV	10	3.60	0.004589	±2.5	PASS
Band13	5MHz	16QAM	23255	1RB#0	NV	20	2.75	0.003505	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	NV	-30	-3.18	-0.004066	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	NV	-20	-2.76	-0.003529	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	NV	0	-2.93	-0.003747	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	NV	10	3.02	0.003862	±2.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	NV	20	-3.65	-0.004668	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	NV	-30	-6.55	-0.008376	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	NV	-20	-6.91	-0.008836	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	NV	0	-7.91	-0.010115	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	NV	10	-6.91	-0.008836	±2.5	PASS
Band13	10MHz	16QAM	23230	1RB#0	NV	20	-6.04	-0.007724	±2.5	PASS