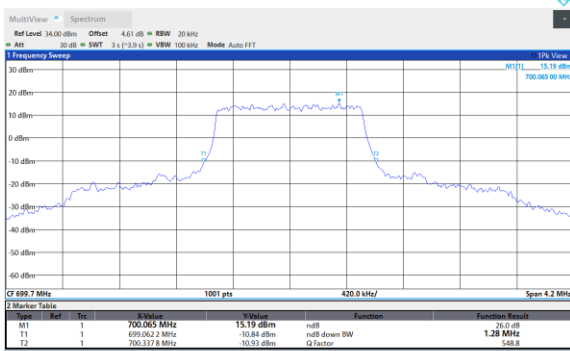
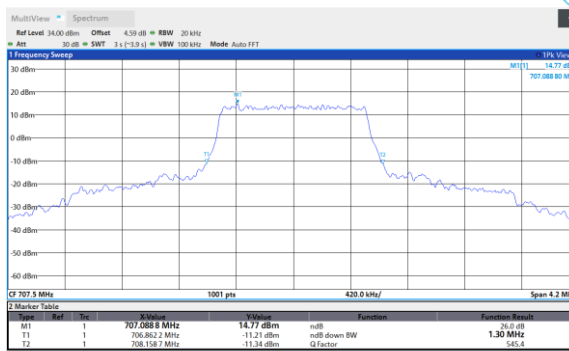


26dB Bandwidth

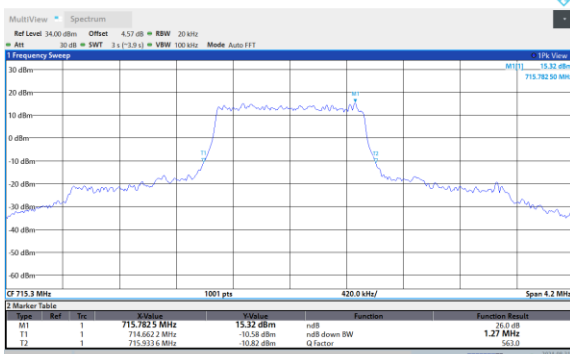
Band12-1.4MHz-QPSK-23017-6RB#0



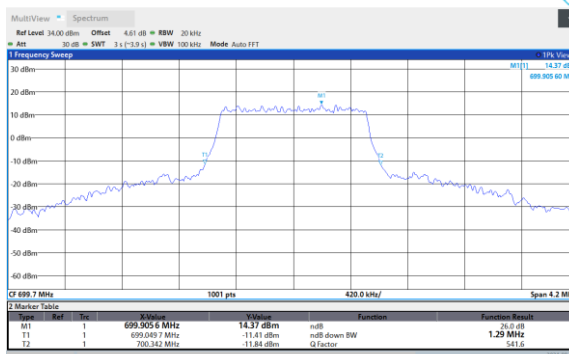
Band12-1.4MHz-QPSK-23095-6RB#0



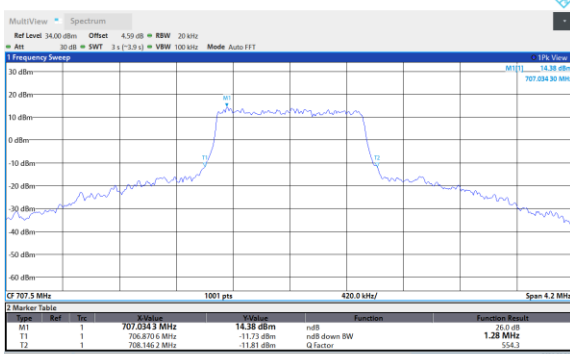
Band12-1.4MHz-QPSK-23173-6RB#0



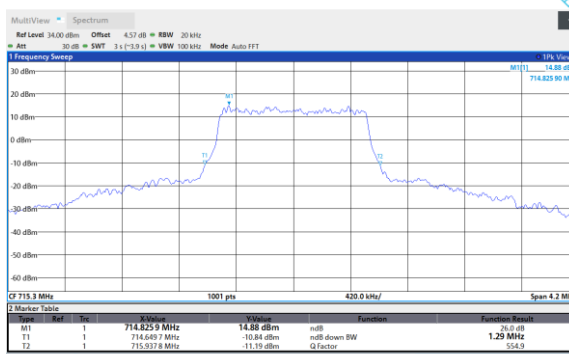
Band12-1.4MHz-16QAM-23017-6RB#0



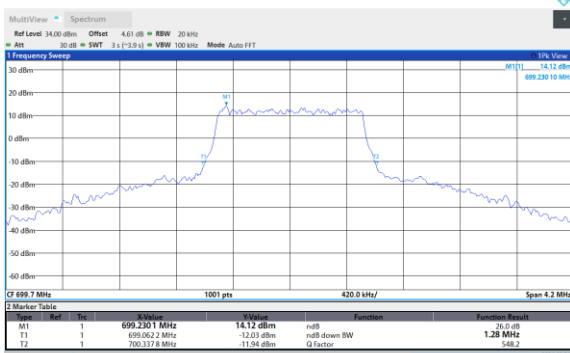
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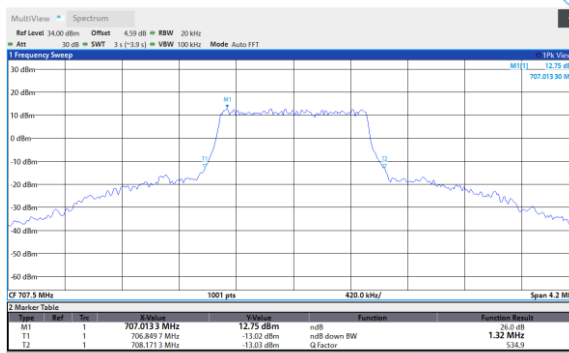
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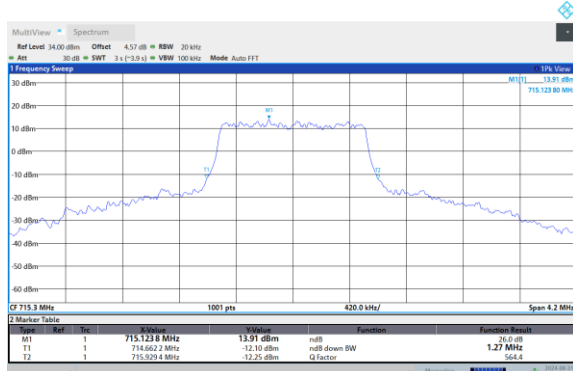
Band12-1.4MHz-64QAM-23017-6RB#0



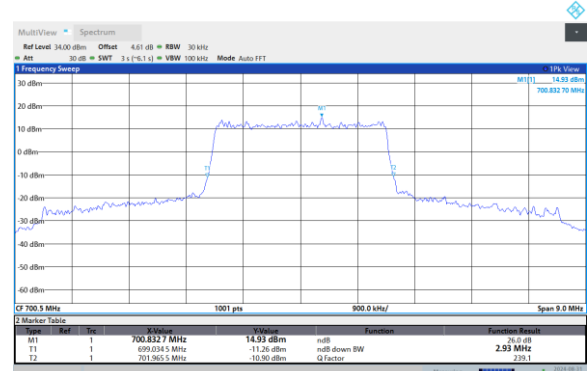
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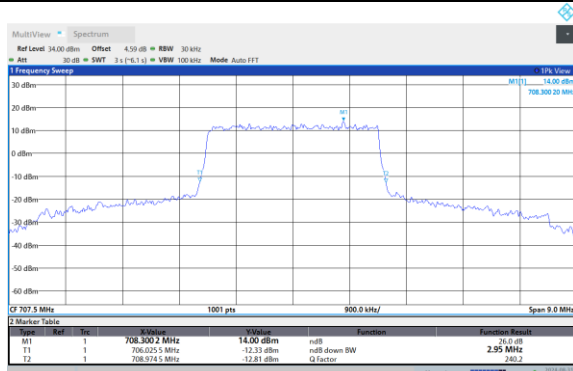
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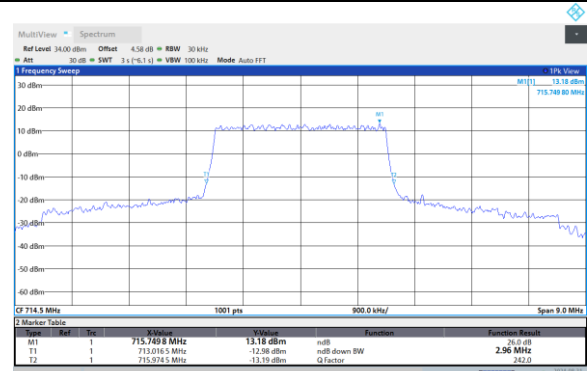
Band12-3MHz-QPSK-23025-15RB#



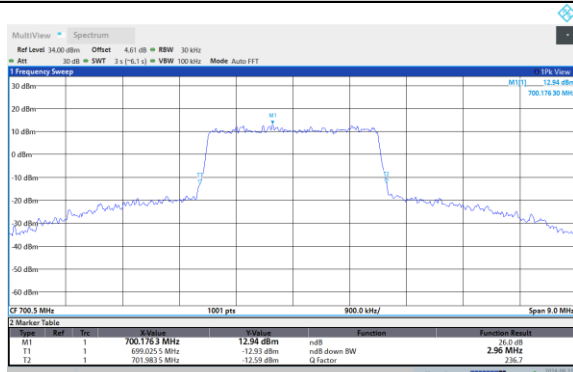
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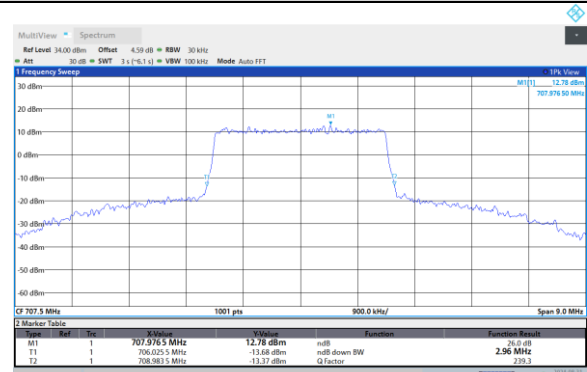
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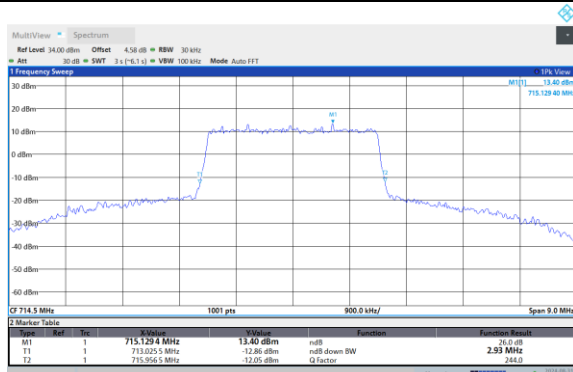
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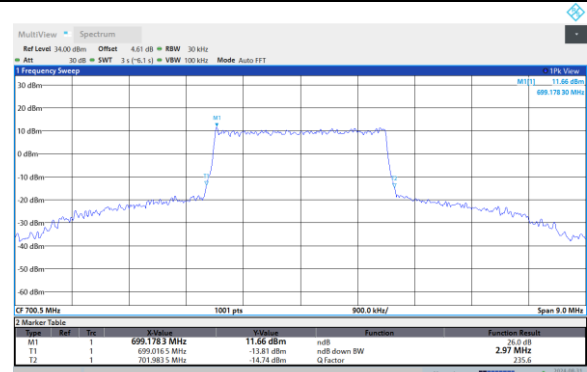
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Band12-3MHz-16QAM-23165-15RB#0

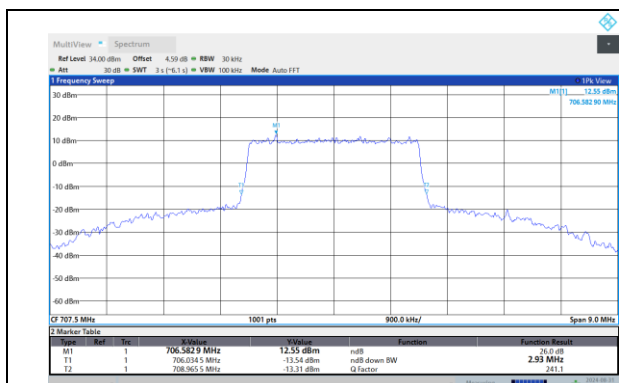


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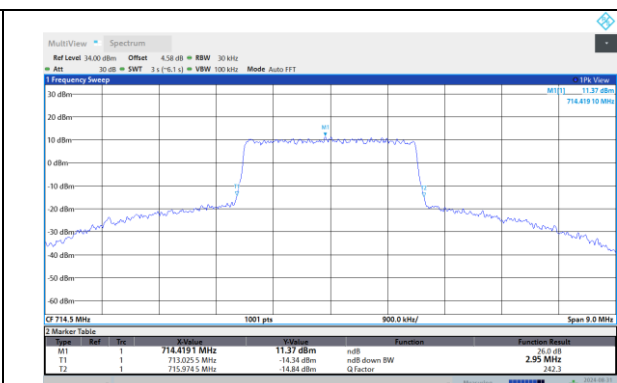


Band12-3MHz-64QAM-23095-15RB#0

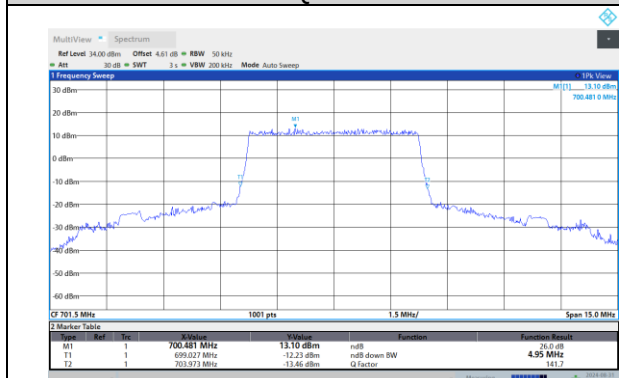
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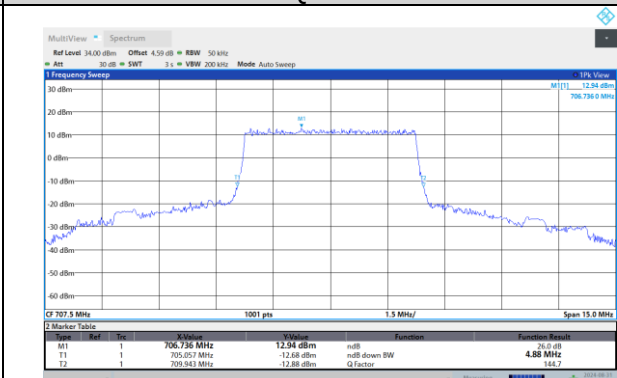
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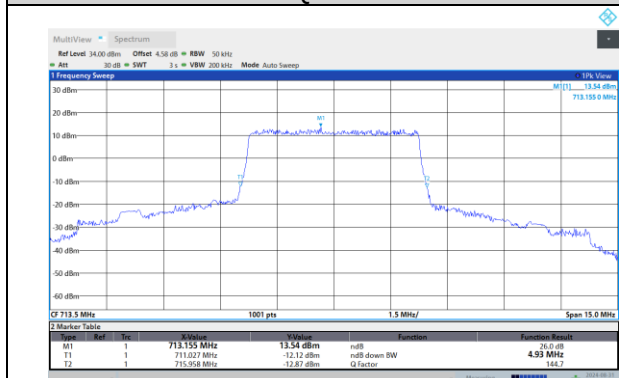
Band12-5MHz-QPSK-23095-25RB#0



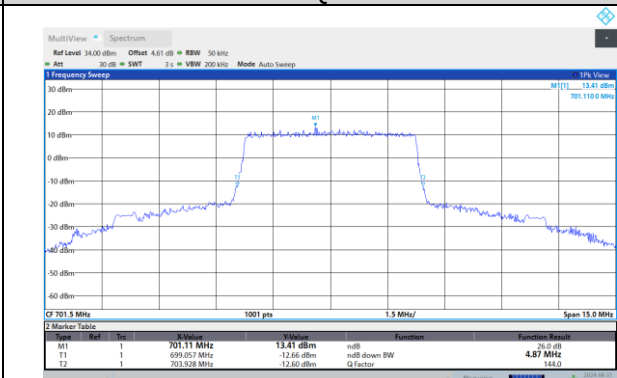
Band12-5MHz-QPSK-23155-25RB#0



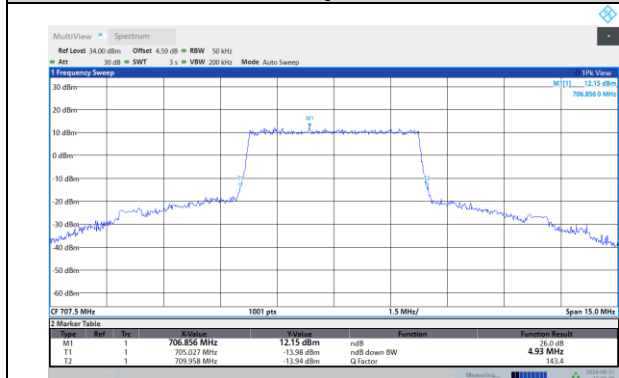
Band12-5MHz-16QAM-23035-25RB#0



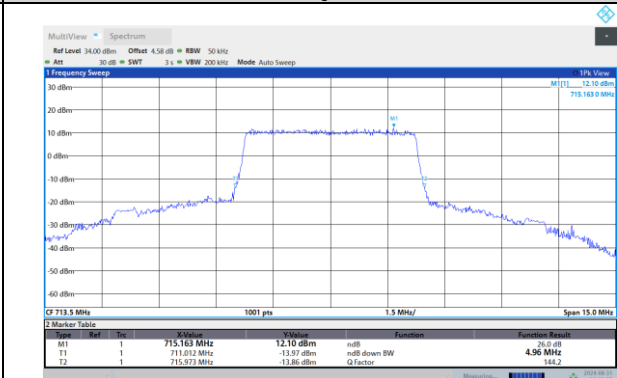
Band12-5MHz-16QAM-23095-25RB#0



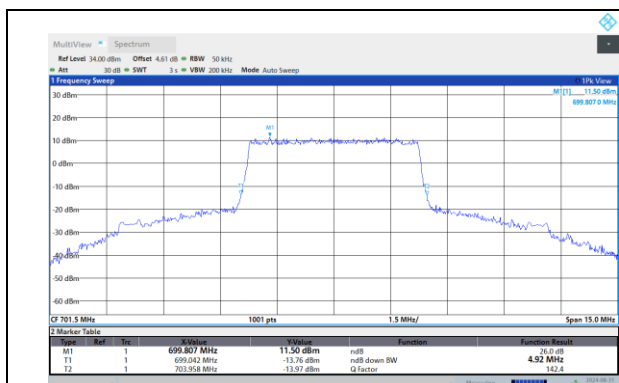
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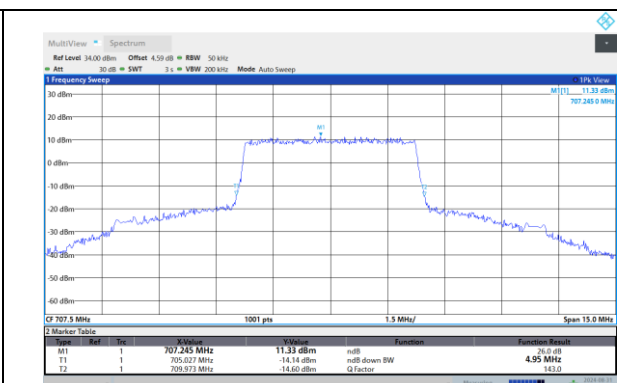
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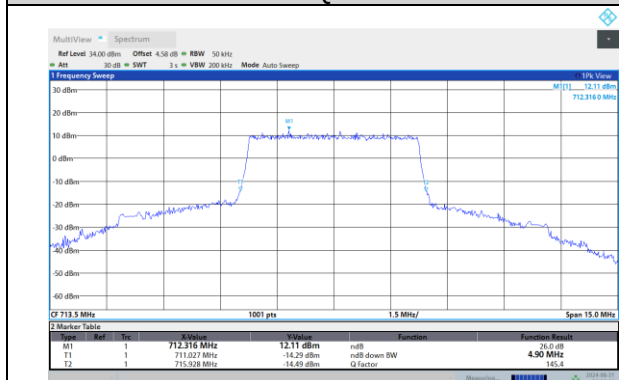
Band12-5MHz-64QAM-23095-25RB#0



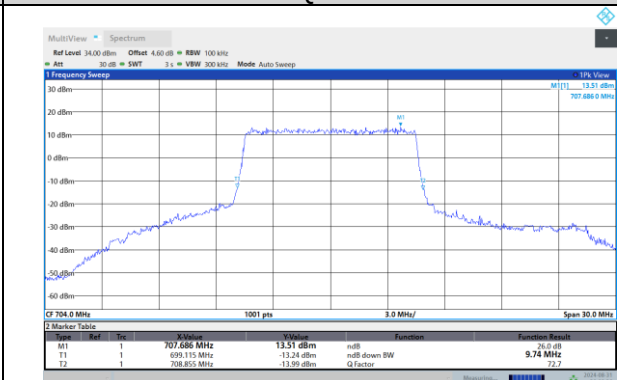
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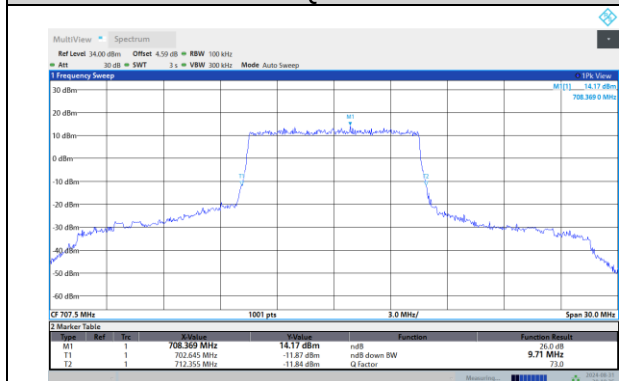
Band12-10MHz-QPSK-23060-50RB#0



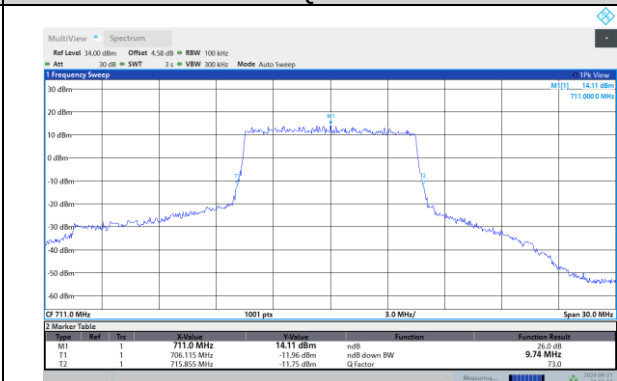
Band12-10MHz-QPSK-23095-50RB#0



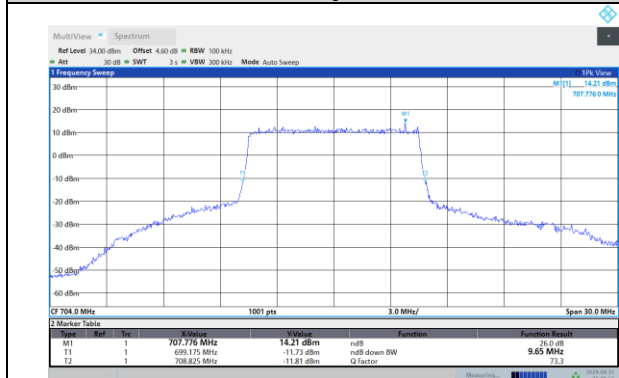
Band12-10MHz-QPSK-23130-50RB#0



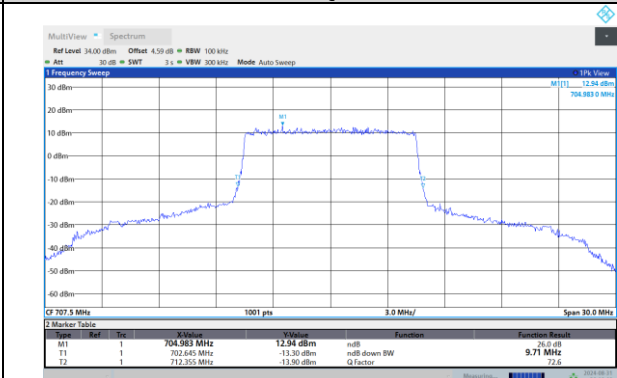
Band12-10MHz-16QAM-23060-50RB#0



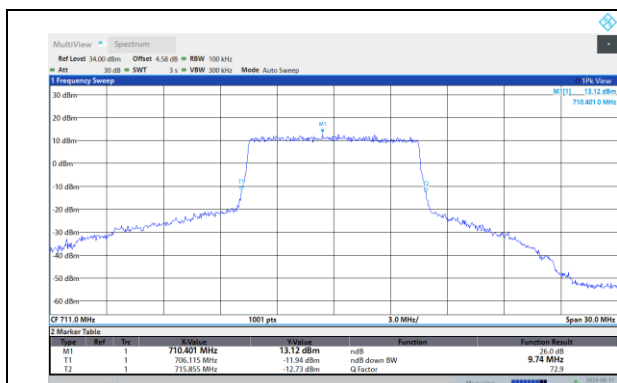
Band12-10MHz-16QAM-23095-50RB#0



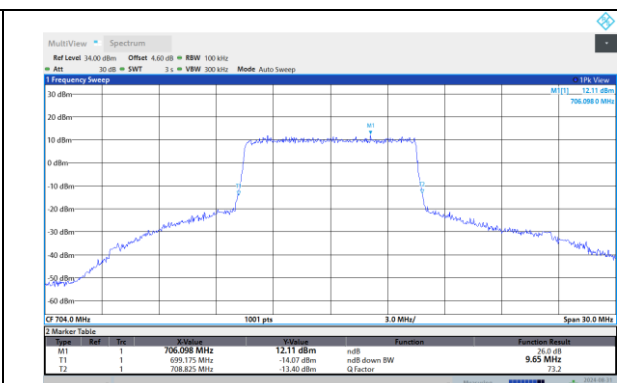
Band12-10MHz-16QAM-23130-50RB#0



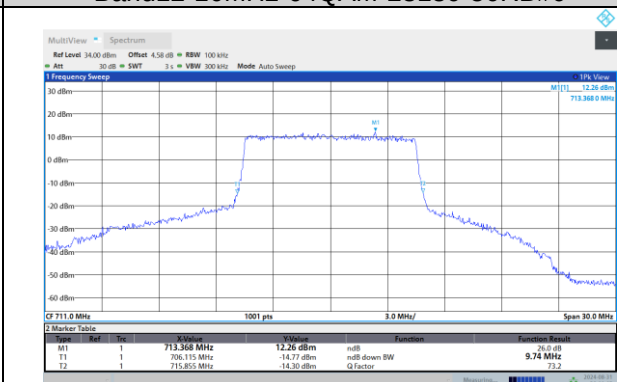
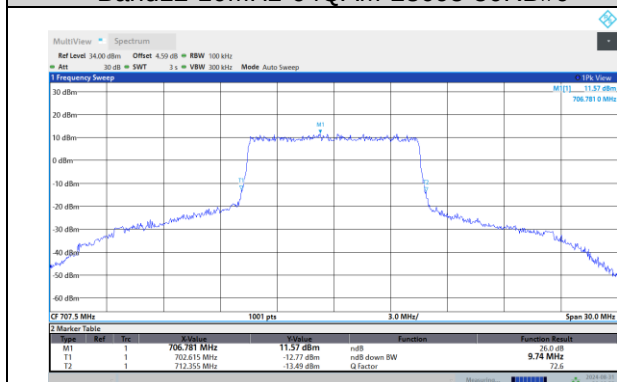
Band12-10MHz-64QAM-23060-50RB#0



Band12-10MHz-64QAM-23095-50RB#0



Band12-10MHz-64QAM-23130-50RB#0



BAND EDGE

Test Result

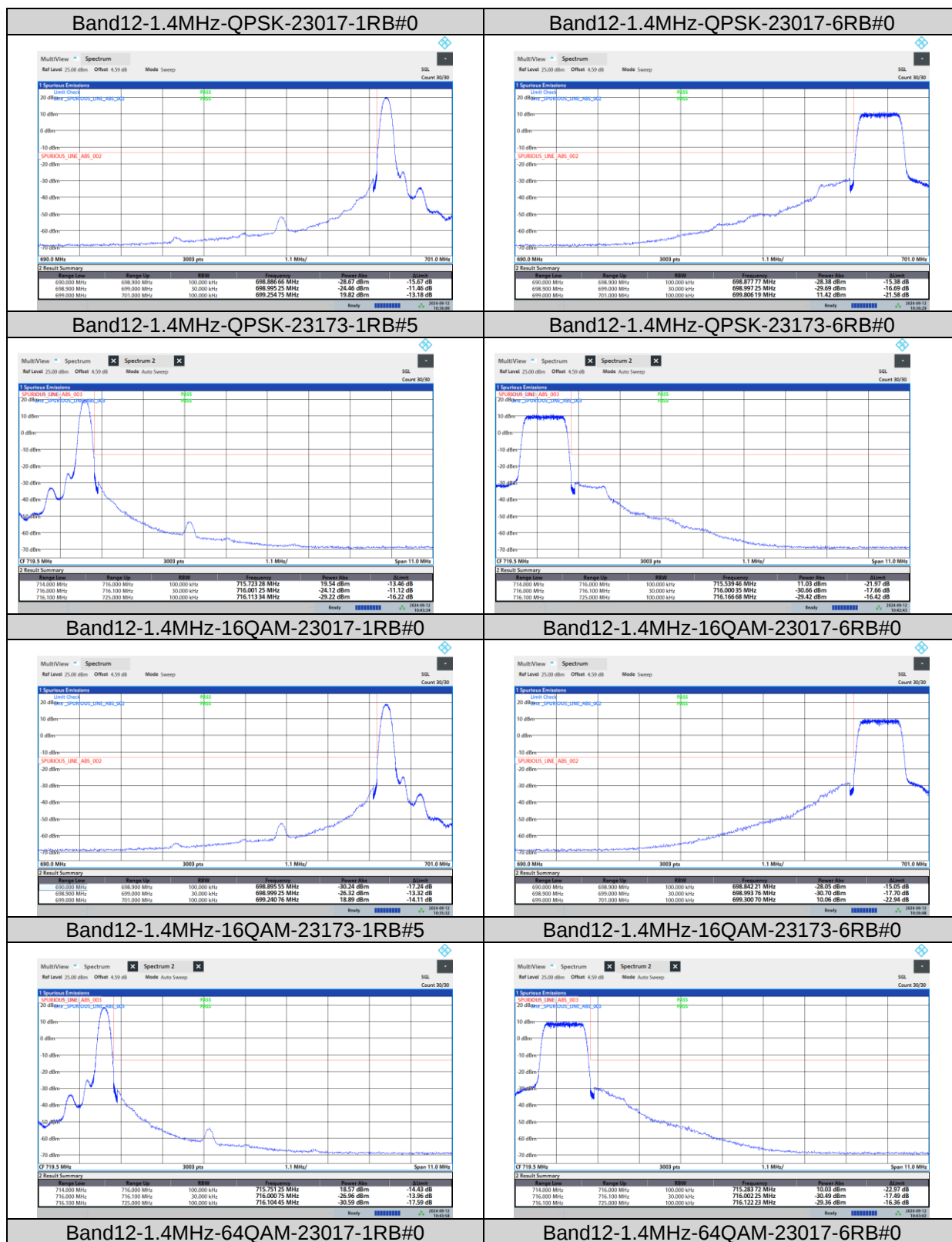
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	See Graph	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	See Graph	PASS
Band12	3MHz	QPSK	23025	1RB#0	See Graph	PASS
Band12	3MHz	QPSK	23025	15RB#0	See Graph	PASS
Band12	3MHz	QPSK	23165	1RB#14	See Graph	PASS
Band12	3MHz	QPSK	23165	15RB#0	See Graph	PASS
Band12	3MHz	16QAM	23025	1RB#0	See Graph	PASS
Band12	3MHz	16QAM	23025	15RB#0	See Graph	PASS
Band12	3MHz	16QAM	23165	1RB#14	See Graph	PASS
Band12	3MHz	16QAM	23165	15RB#0	See Graph	PASS
Band12	3MHz	64QAM	23025	1RB#0	See Graph	PASS
Band12	3MHz	64QAM	23025	15RB#0	See Graph	PASS
Band12	3MHz	64QAM	23165	1RB#14	See Graph	PASS
Band12	3MHz	64QAM	23165	15RB#0	See Graph	PASS
Band12	5MHz	QPSK	23035	1RB#0	See Graph	PASS
Band12	5MHz	QPSK	23035	25RB#0	See Graph	PASS
Band12	5MHz	QPSK	23155	1RB#24	See Graph	PASS
Band12	5MHz	QPSK	23155	25RB#0	See Graph	PASS
Band12	5MHz	16QAM	23035	1RB#0	See Graph	PASS
Band12	5MHz	16QAM	23035	25RB#0	See Graph	PASS
Band12	5MHz	16QAM	23155	1RB#24	See Graph	PASS
Band12	5MHz	16QAM	23155	25RB#0	See Graph	PASS
Band12	5MHz	64QAM	23035	1RB#0	See Graph	PASS
Band12	5MHz	64QAM	23035	25RB#0	See Graph	PASS
Band12	5MHz	64QAM	23155	1RB#24	See Graph	PASS
Band12	5MHz	64QAM	23155	25RB#0	See Graph	PASS
Band12	10MHz	QPSK	23060	1RB#0	See Graph	PASS
Band12	10MHz	QPSK	23060	50RB#0	See Graph	PASS
Band12	10MHz	QPSK	23130	1RB#49	See Graph	PASS
Band12	10MHz	QPSK	23130	50RB#0	See Graph	PASS
Band12	10MHz	16QAM	23060	1RB#0	See Graph	PASS
Band12	10MHz	16QAM	23060	50RB#0	See Graph	PASS
Band12	10MHz	16QAM	23130	1RB#49	See Graph	PASS
Band12	10MHz	16QAM	23130	50RB#0	See Graph	PASS
Band12	10MHz	64QAM	23060	1RB#0	See Graph	PASS

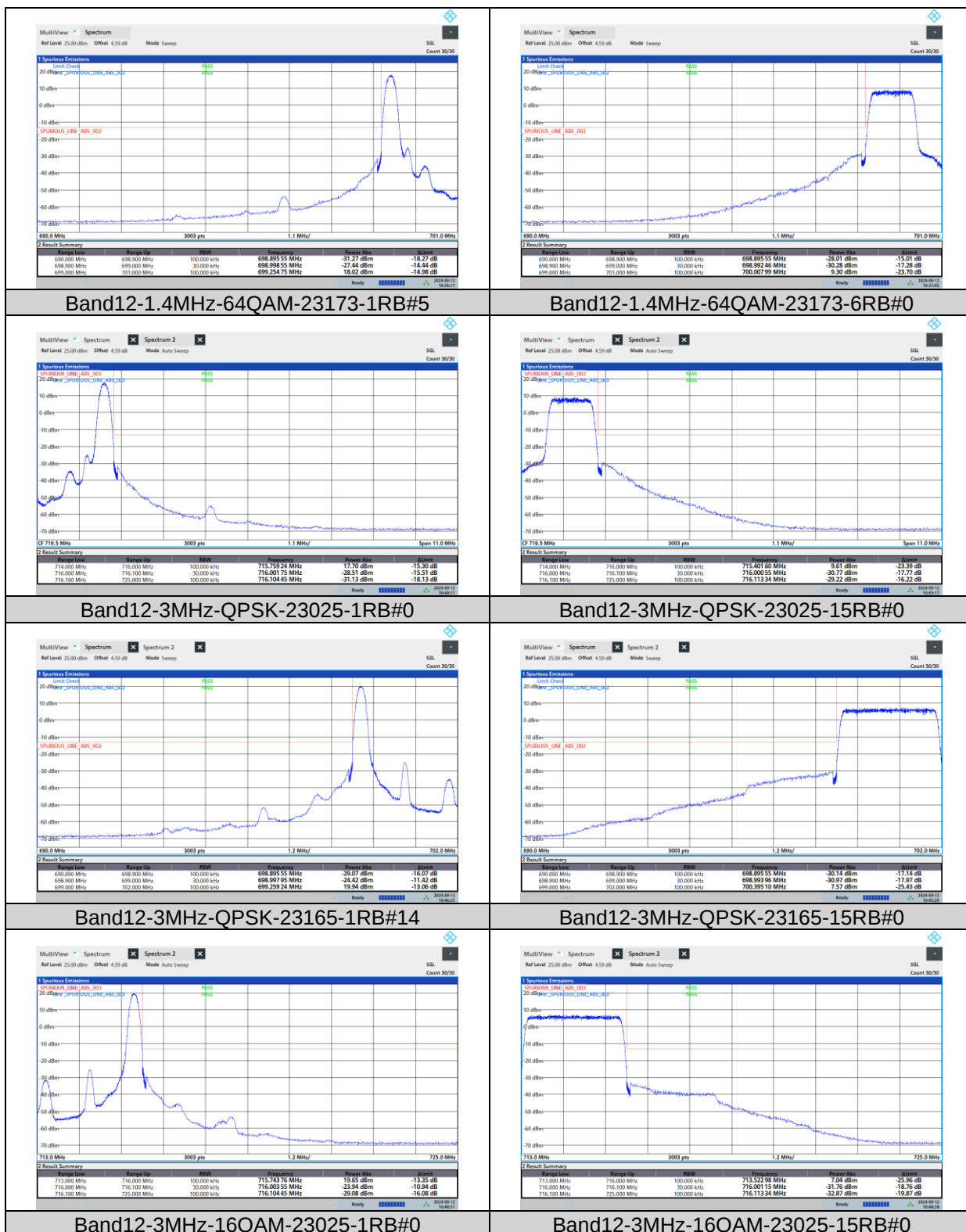


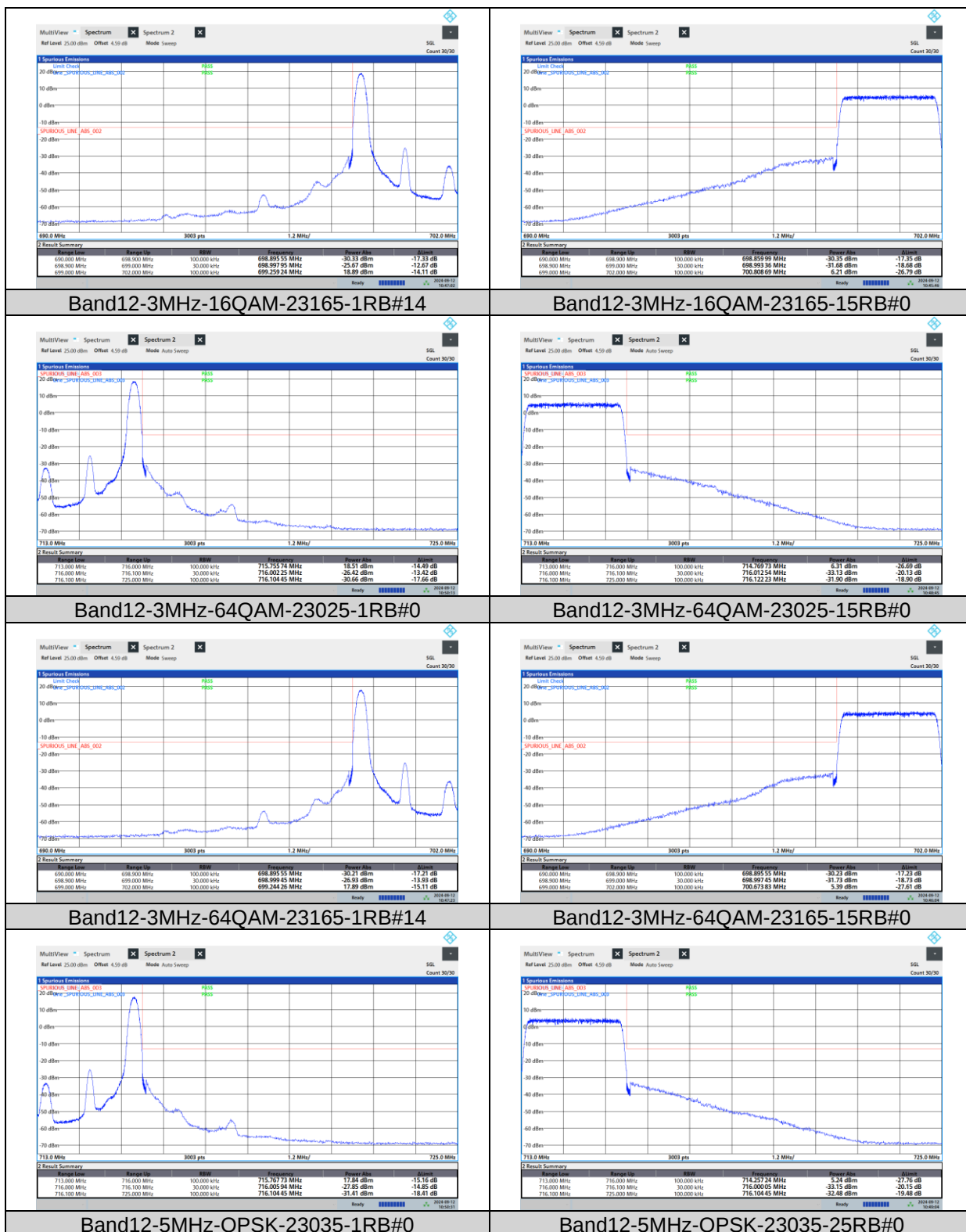
Test Report No.: PSU-NQN2406210109RF03

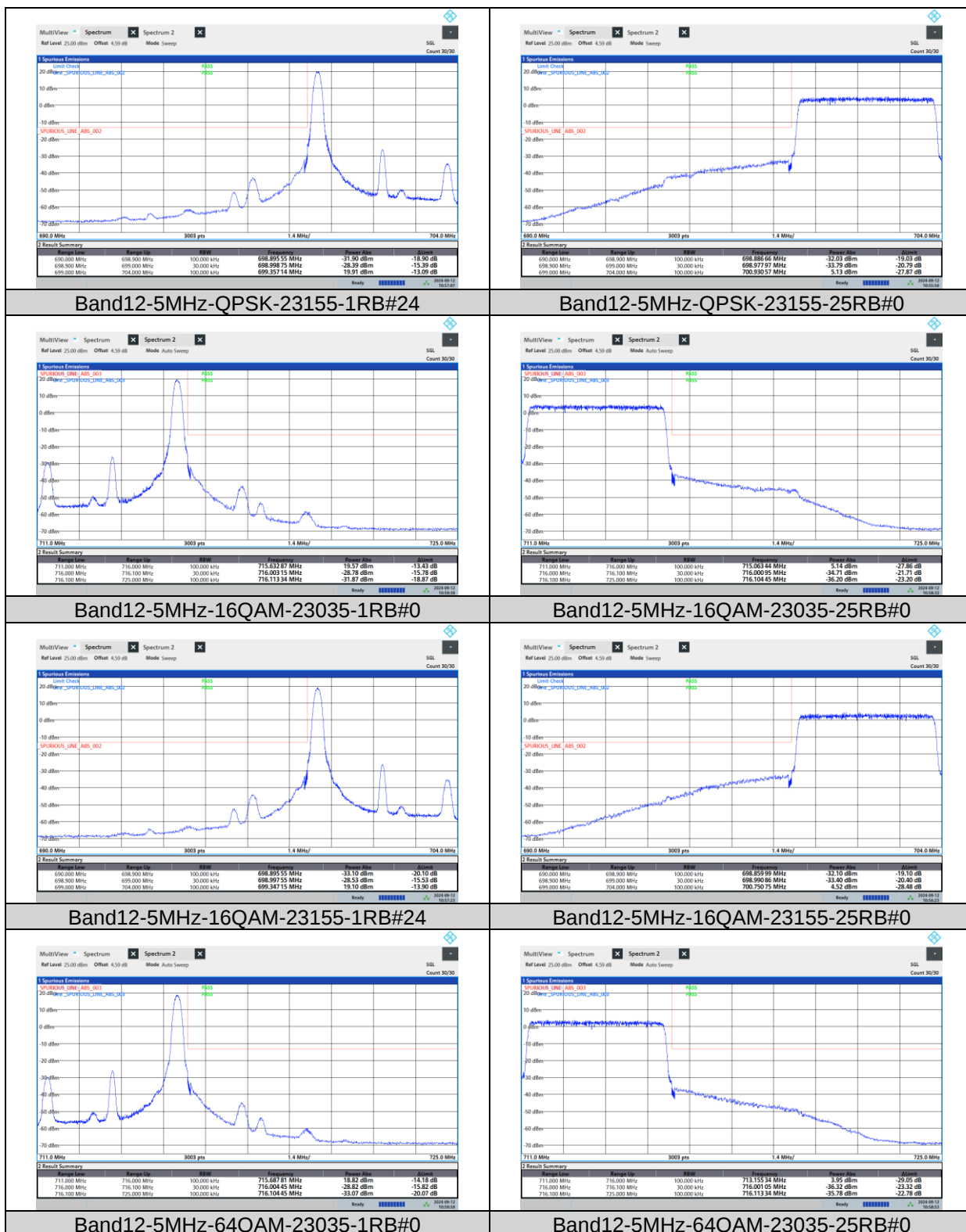
Band12	10MHz	64QAM	23060	50RB#0	See Graph	PASS
Band12	10MHz	64QAM	23130	1RB#49	See Graph	PASS
Band12	10MHz	64QAM	23130	50RB#0	See Graph	PASS

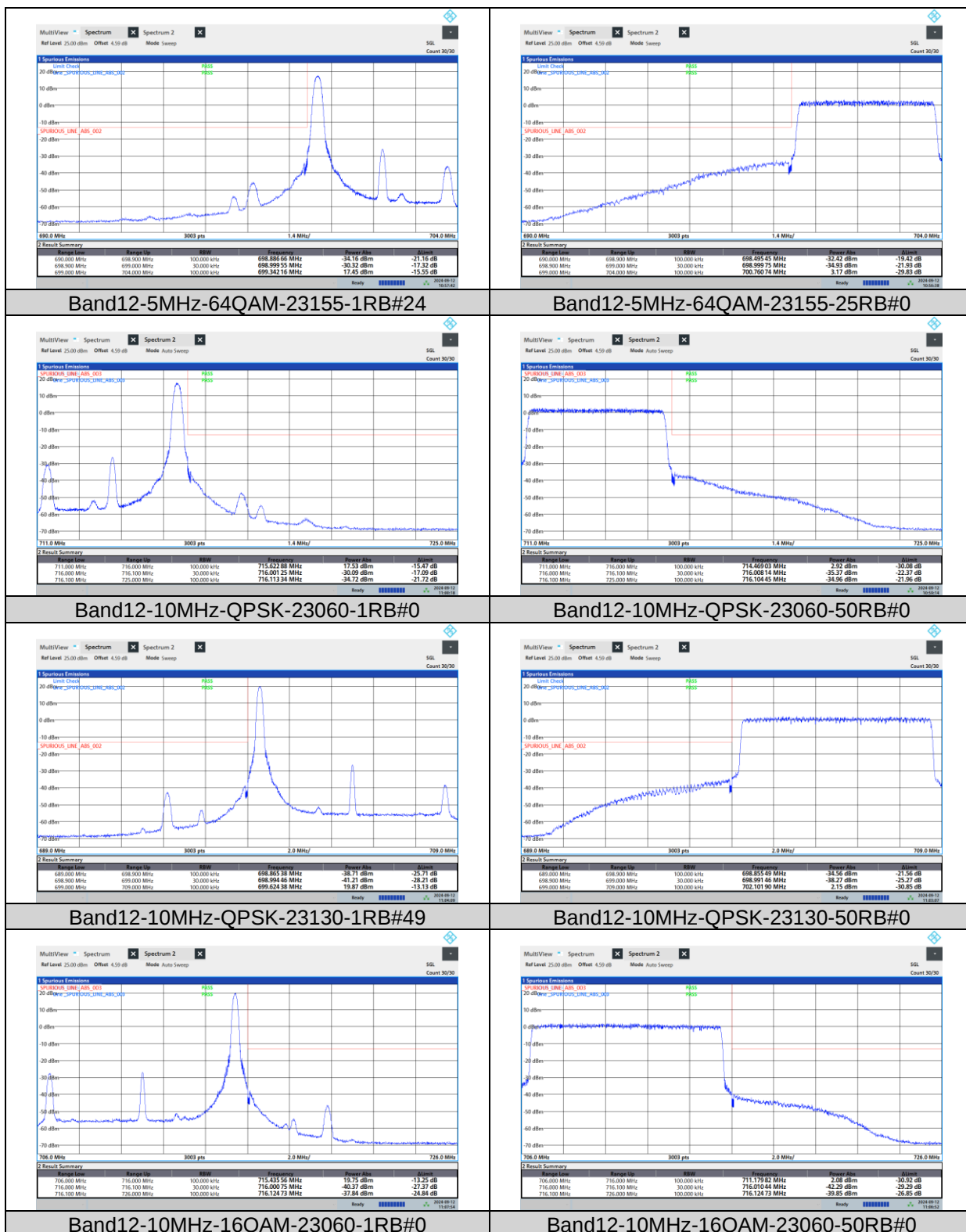
Test Graphs

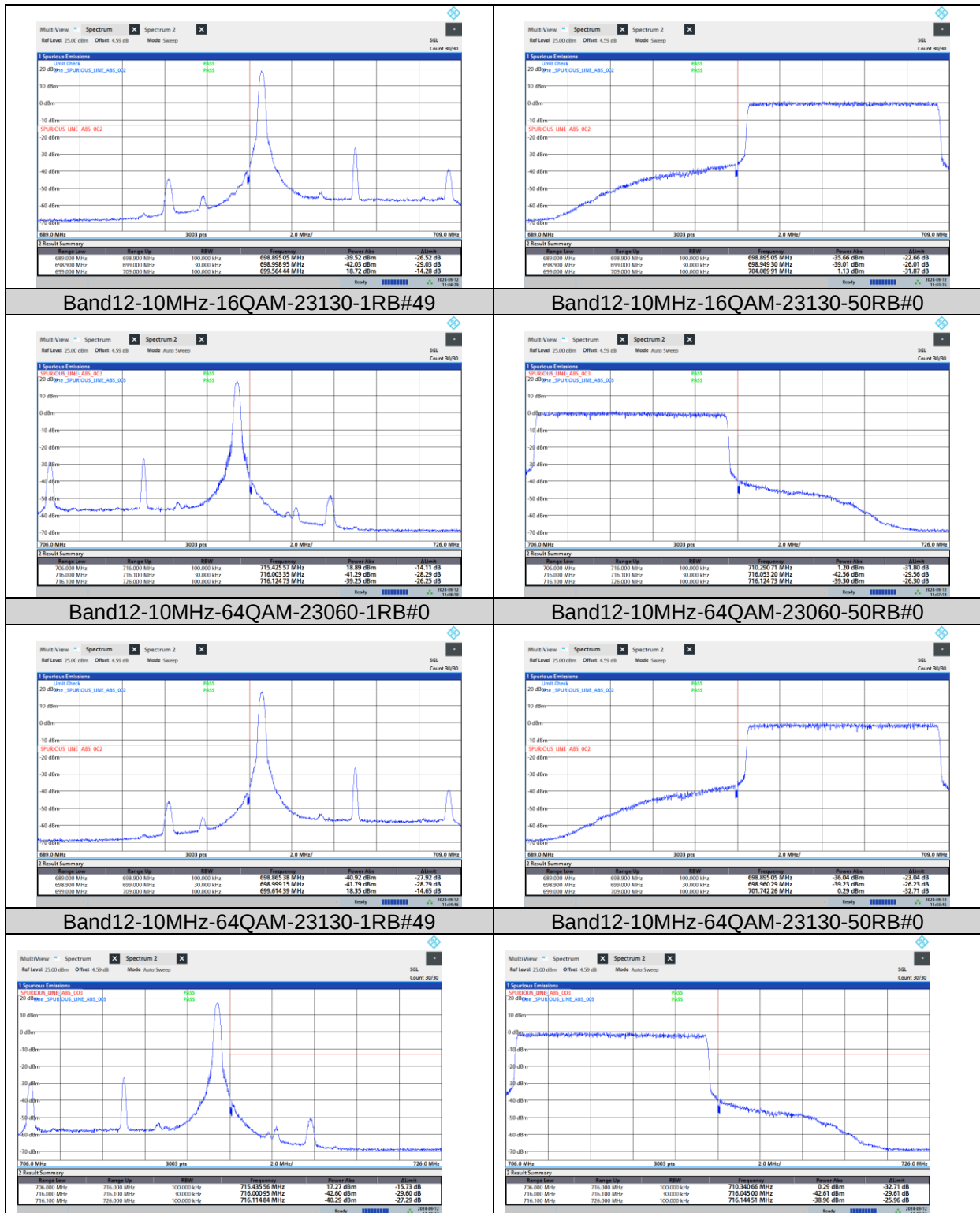












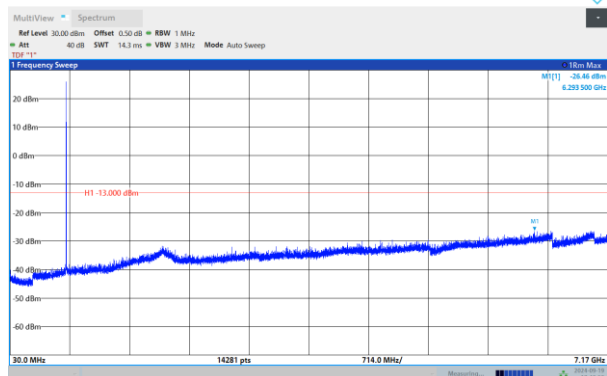
CONDUCTED SPURIOUS EMISSION

Test Result

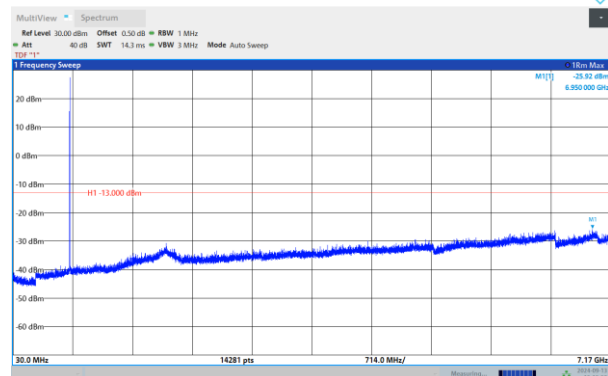
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	64QAM	23025	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	64QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	64QAM	23165	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	64QAM	23035	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	64QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	64QAM	23155	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	64QAM	23060	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	64QAM	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	64QAM	23130	1RB#0	Range:30~7170MHz	See Graph	PASS

Test Graphs

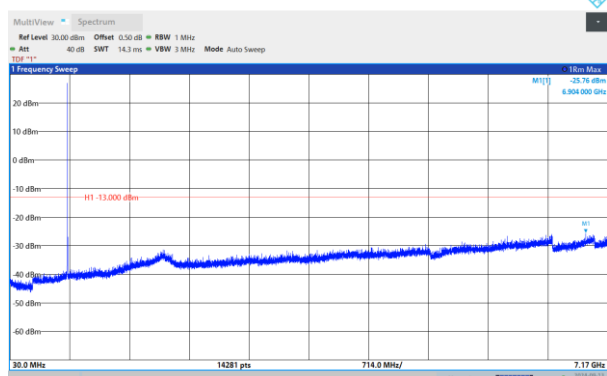
Band12-1.4MHz-QPSK-23017-1RB#0-Range:30~7170 MHz



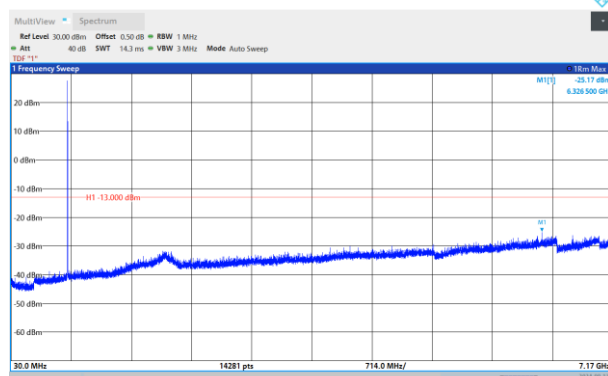
Band12-1.4MHz-QPSK-23095-1RB#0-Range:30~7170 MHz



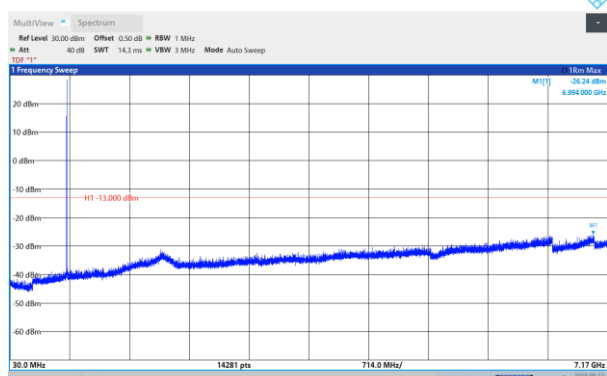
Band12-1.4MHz-QPSK-23173-1RB#0-Range:30~7170 MHz



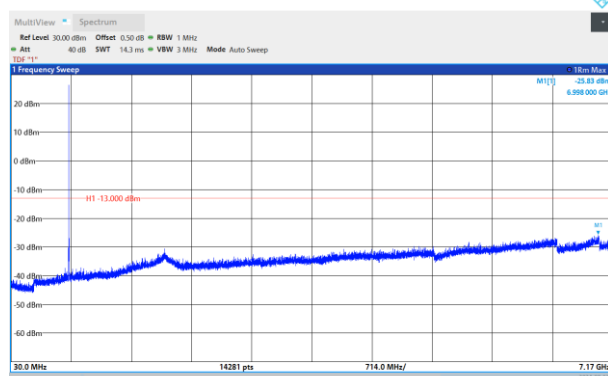
Band12-1.4MHz-16QAM-23017-1RB#0-Range:30~7170 MHz



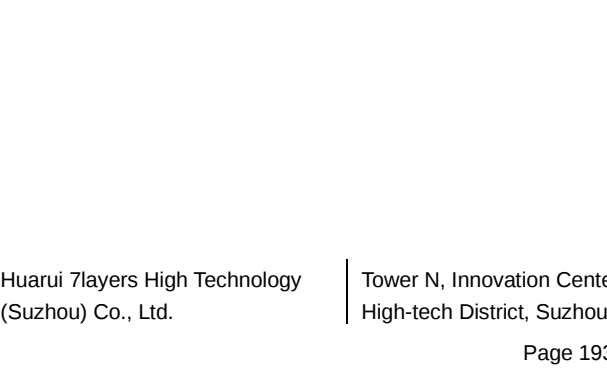
Band12-1.4MHz-16QAM-23095-1RB#0-Range:30~7170 MHz



Band12-1.4MHz-16QAM-23173-1RB#0-Range:30~7170 MHz

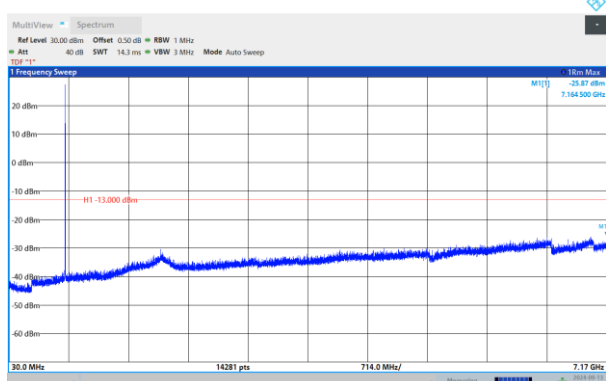


Band12-1.4MHz-64QAM-23017-1RB#0-Range:30~7170 MHz

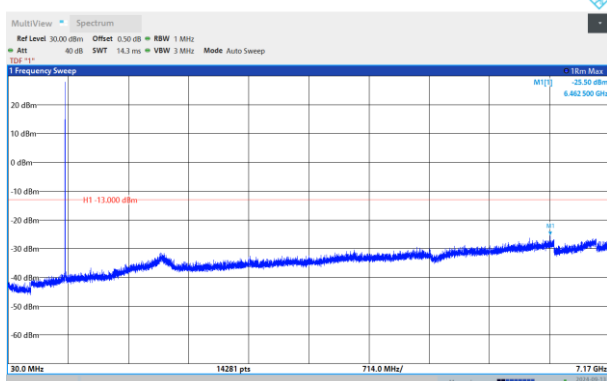


Band12-1.4MHz-64QAM-23095-1RB#0-Range:30~7170 MHz

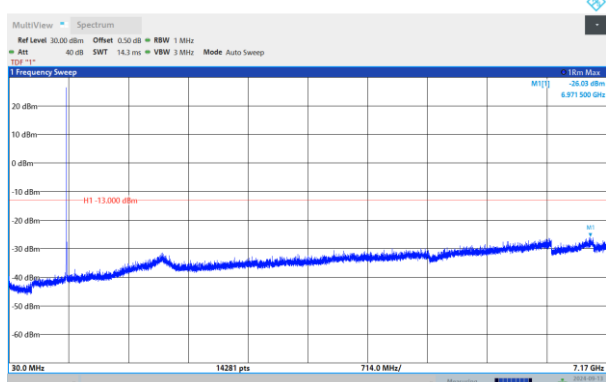




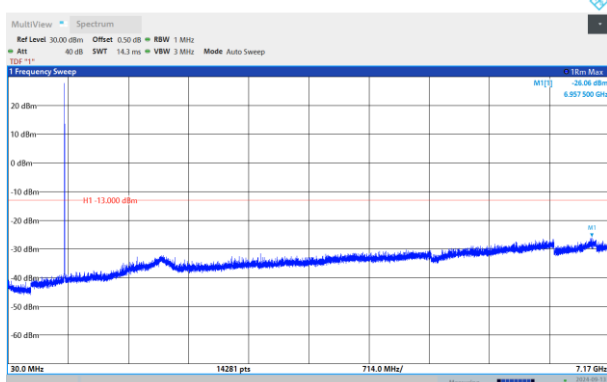
Band12-1.4MHz-64QAM-23173-1RB#0-Range:30~7170 MHz



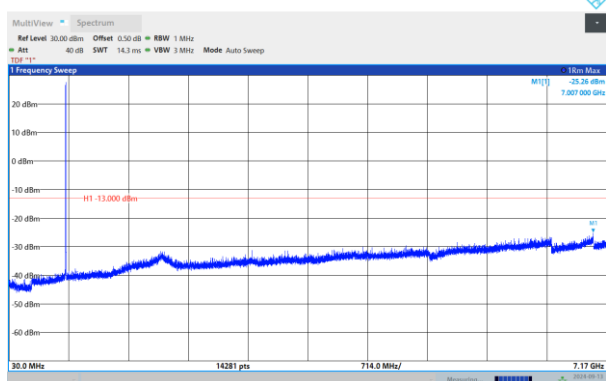
Band12-3MHz-QPSK-23025-1RB#0-Range:30~7170 MHz



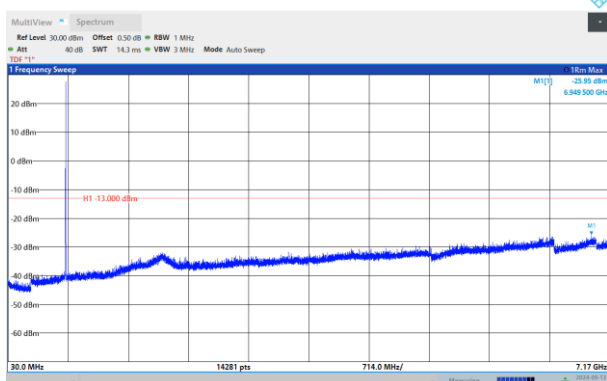
Band12-3MHz-QPSK-23095-1RB#0-Range:30~7170 MHz



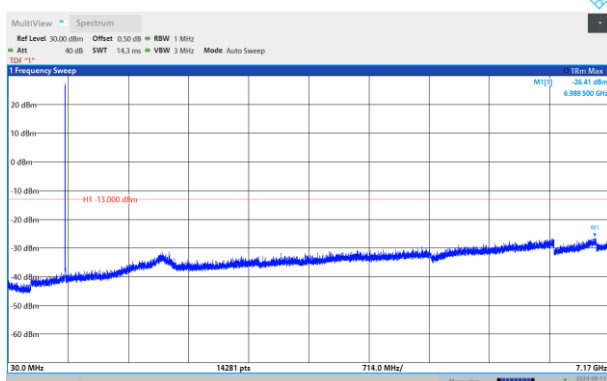
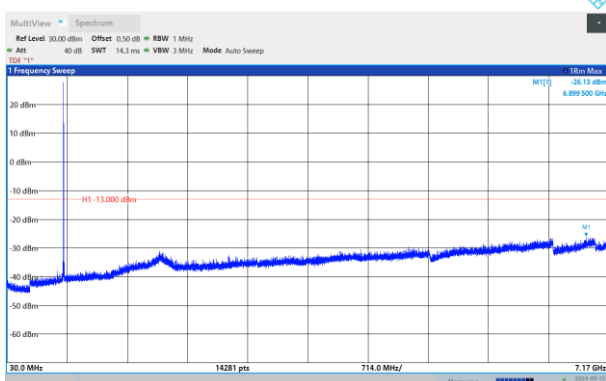
Band12-3MHz-QPSK-23165-1RB#0-Range:30~7170 MHz



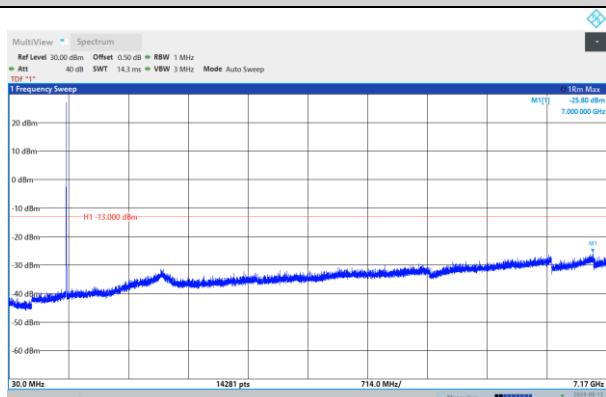
Band12-3MHz-16QAM-23025-1RB#0-Range:30~7170 MHz



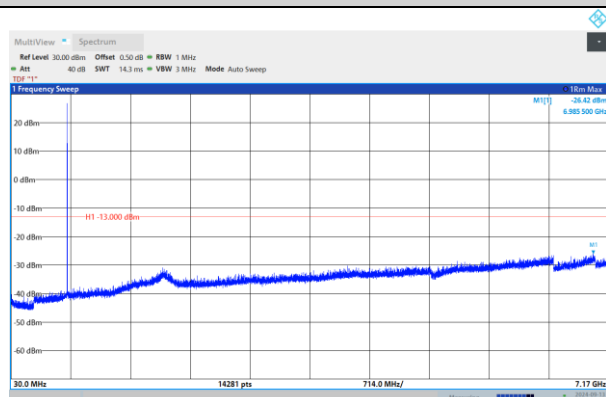
Band12-3MHz-16QAM-23095-1RB#0-Range:30~7170 MHz



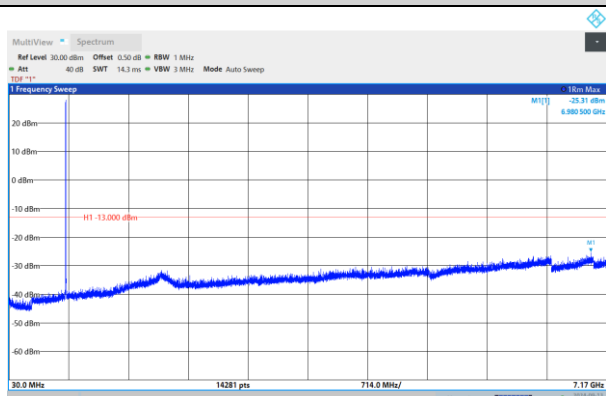
Band12-3MHz-16QAM-23165-1RB#0-Range:30~7170
MHz



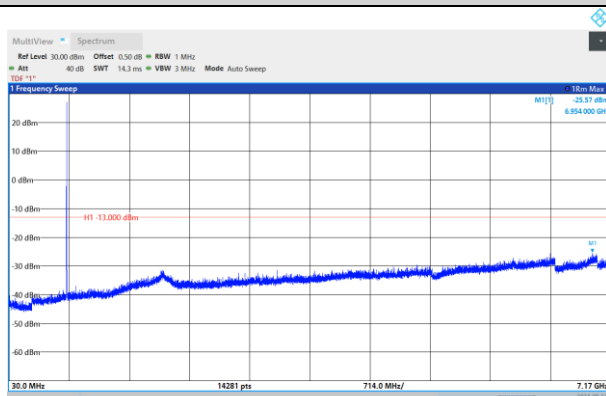
Band12-3MHz-64QAM-23025-1RB#0-Range:30~7170
MHz



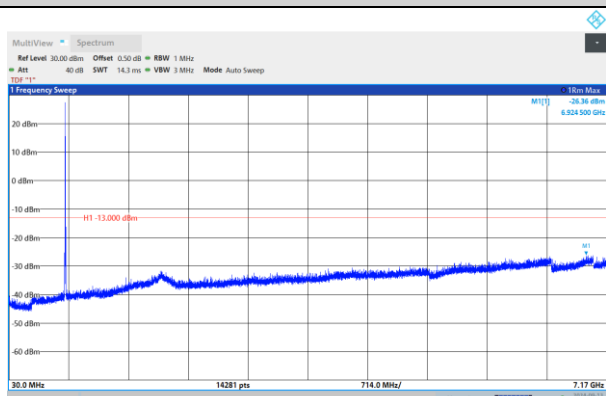
Band12-3MHz-64QAM-23095-1RB#0-Range:30~7170
MHz



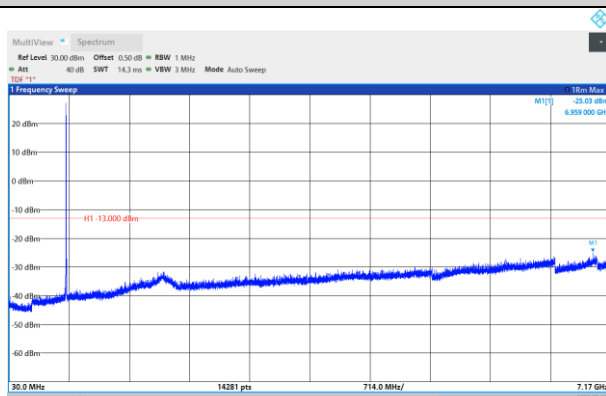
Band12-3MHz-64QAM-23165-1RB#0-Range:30~7170
MHz



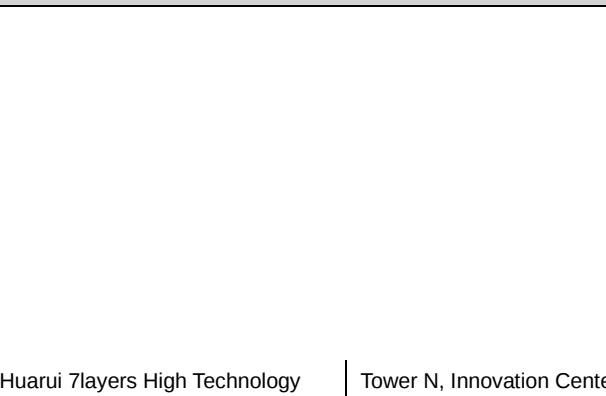
Band12-5MHz-QPSK-23035-1RB#0-Range:30~7170M
Hz



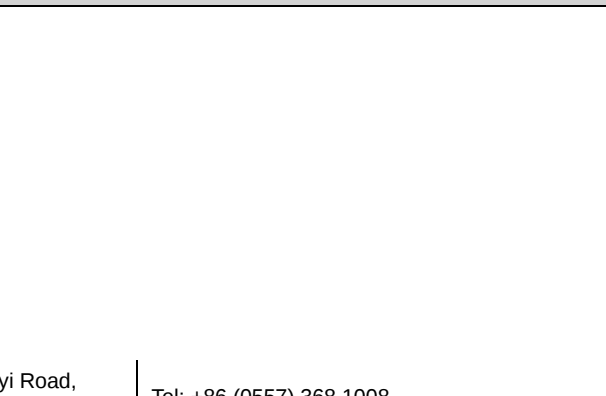
Band12-5MHz-QPSK-23095-1RB#0-Range:30~7170M
Hz

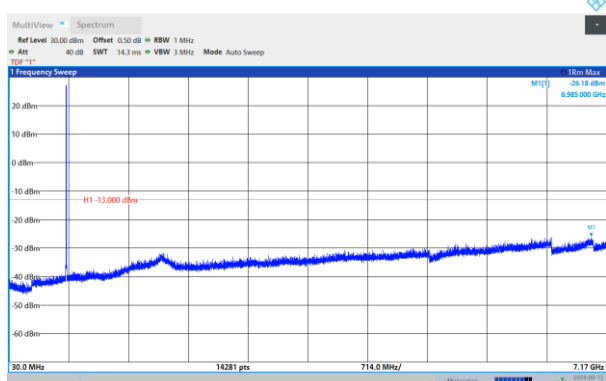


Band12-5MHz-QPSK-23155-1RB#0-Range:30~7170M
Hz

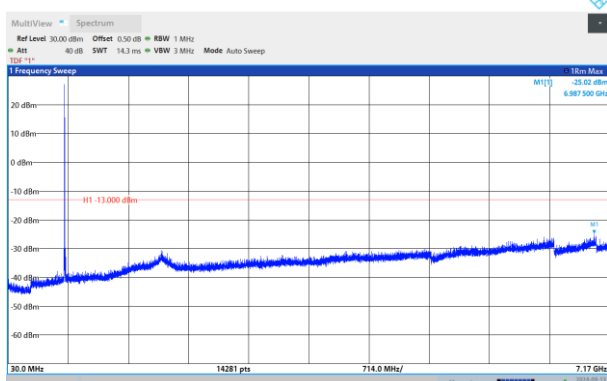


Band12-5MHz-16QAM-23035-1RB#0-Range:30~7170
MHz

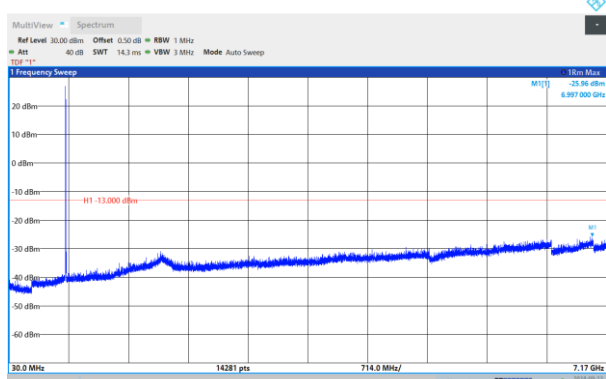




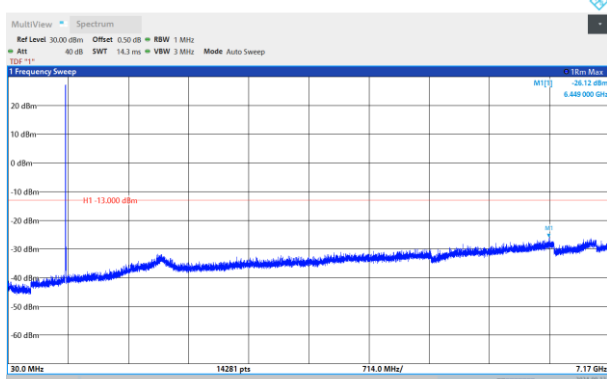
Band12-5MHz-16QAM-23095-1RB#0-Range:30~7170 MHz



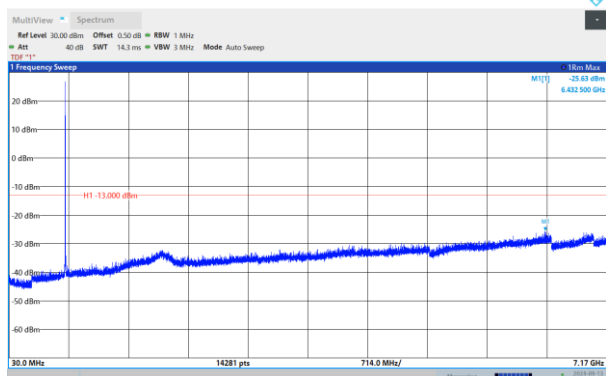
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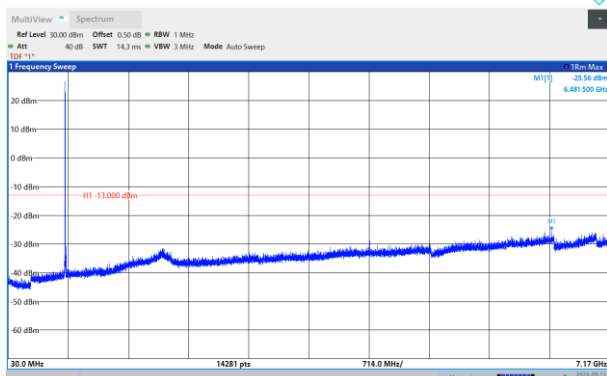
Band12-5MHz-64QAM-23035-1RB#0-Range:30~7170 MHz



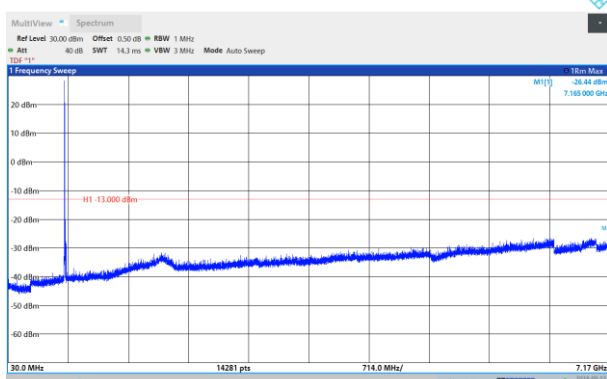
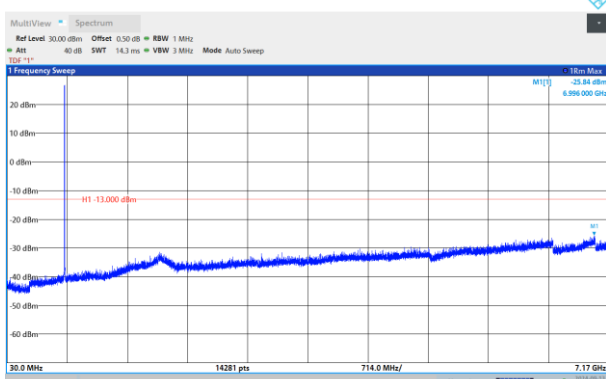
Band12-5MHz-64QAM-23095-1RB#0-Range:30~7170 MHz



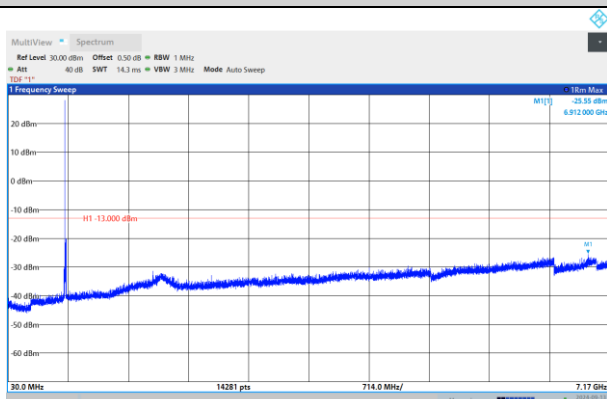
Band12-5MHz-64QAM-23155-1RB#0-Range:30~7170 MHz



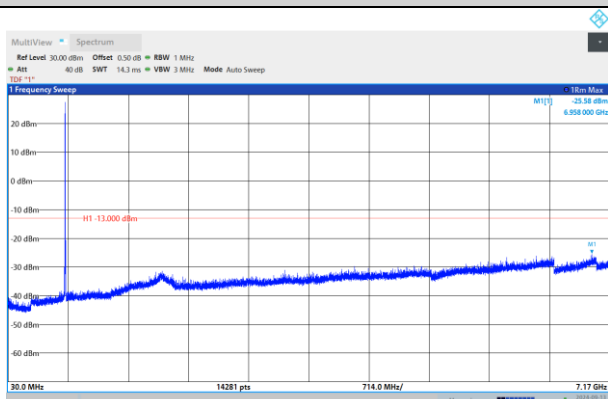
Band12-10MHz-QPSK-23060-1RB#0-Range:30~7170 MHz



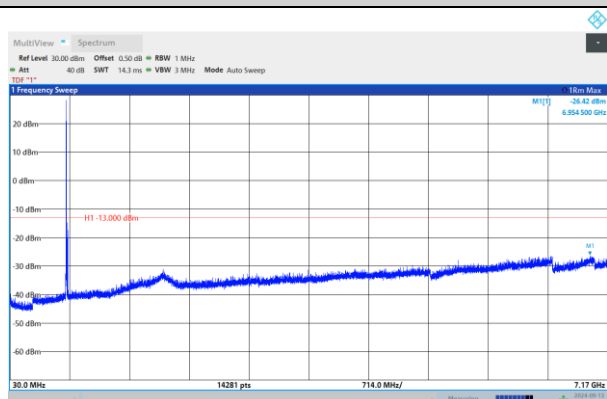
Band12-10MHz-QPSK-23095-1RB#0-Range:30~7170
MHz



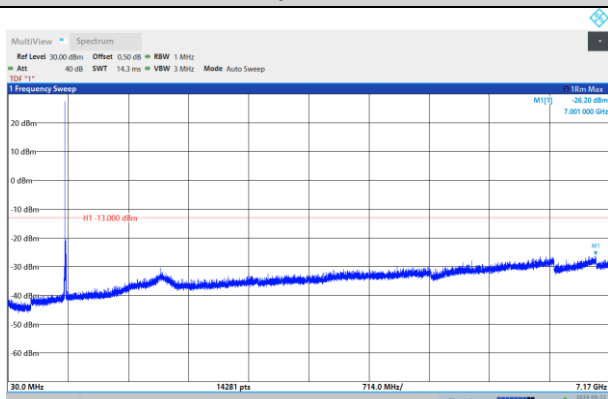
Band12-10MHz-QPSK-23130-1RB#0-Range:30~7170
MHz



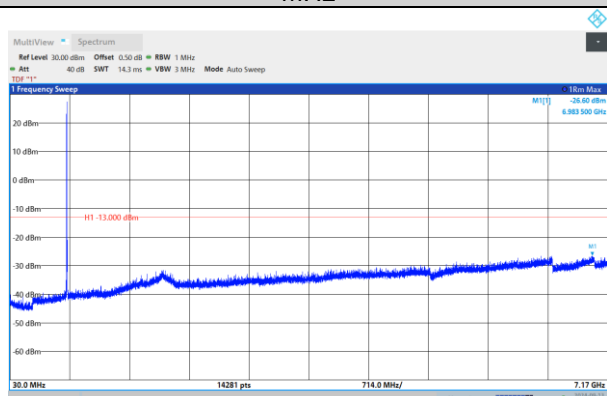
Band12-10MHz-16QAM-23060-1RB#0-Range:30~7170
MHz



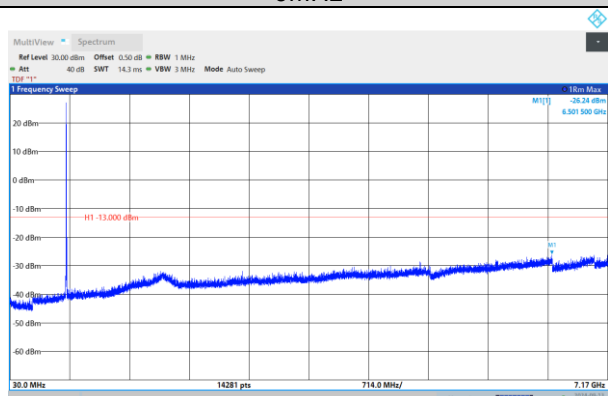
Band12-10MHz-16QAM-23095-1RB#0-Range:30~717
0MHz



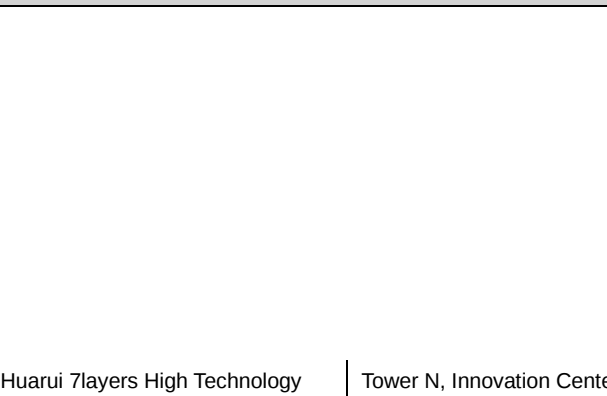
Band12-10MHz-16QAM-23130-1RB#0-Range:30~7170
MHz



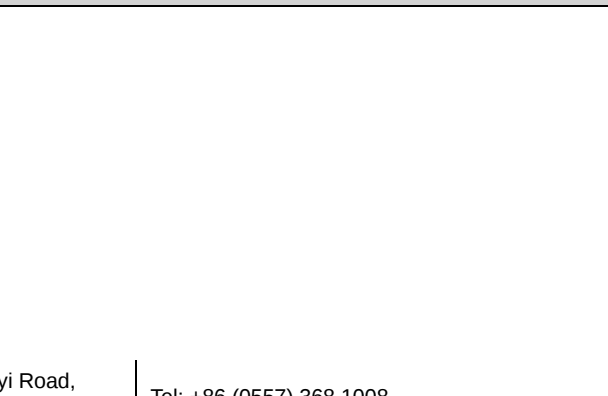
Band12-10MHz-64QAM-23060-1RB#0-Range:30~717
0MHz



Band12-10MHz-64QAM-23095-1RB#0-Range:30~7170
MHz



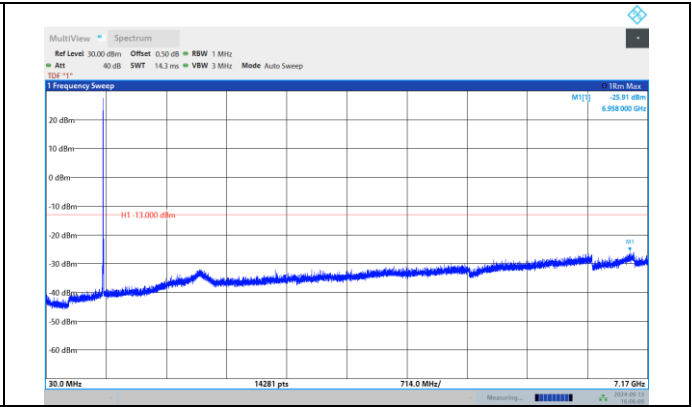
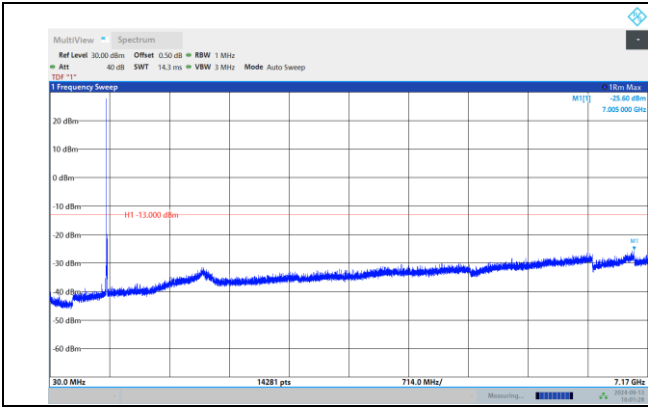
Band12-10MHz-64QAM-23130-1RB#0-Range:30~717
0MHz





BUREAU
VERITAS

Test Report No.: PSU-NQN2406210109RF03



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	LV	NT	-6.82	-0.0097	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	NT	11.26	0.0160	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	HV	NT	4.32	0.0061	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	LV	NT	3.44	0.0049	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	NT	-4.58	-0.0065	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	HV	NT	-14.37	-0.0203	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	LV	NT	-13.49	-0.0190	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	NT	-11.99	-0.0169	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	HV	NT	11.36	0.0160	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-8.10	-0.0115	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-19.80	-0.0281	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-22.50	-0.0320	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-8.90	-0.0126	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-18.10	-0.0257	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	23.40	0.0332	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-18.20	-0.0259	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-8.50	-0.0121	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	0.60	0.0009	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-11.20	-0.0158	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	24.30	0.0343	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	23.30	0.0329	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	14.60	0.0206	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	4.60	0.0065	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	12.90	0.0182	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.80	0.0011	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	6.60	0.0093	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.50	0.0007	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-21.30	-0.0300	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-19.90	-0.0280	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-7.50	-0.0105	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-7.30	-0.0103	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-8.60	-0.0121	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	13.40	0.0188	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-20.30	-0.0286	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	21.30	0.0300	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-12.90	-0.0181	±2.5	PASS

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L - \text{MAX}(\Delta f) $	699.5209	≥ 699	PASS
$f_H + \text{MAX}(\Delta f) $	715.47298	≤ 716	

Note : 1. $|\text{MAX}(\Delta f)|$ = Max Deviation

2. f_L = Occ low channel f_L (-13dBm/MHz)

3. f_H = Occ High channel f_H (-13dBm/MHz)

4. $|\text{MAX}(\Delta f)|$ = 24.30Hz.

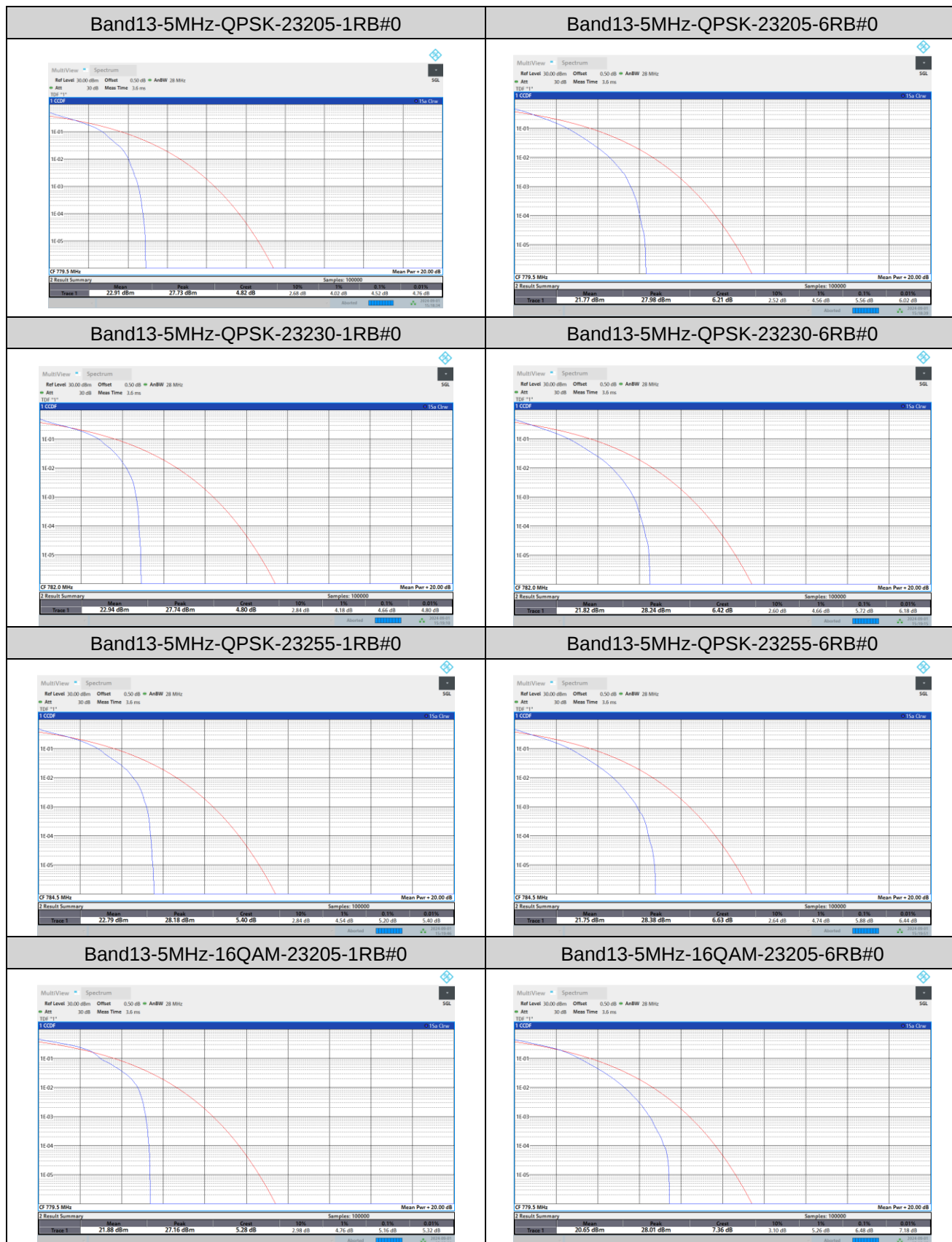
LTE BAND13

PEAK-TO-AVERAGE RATIO(CCDF)

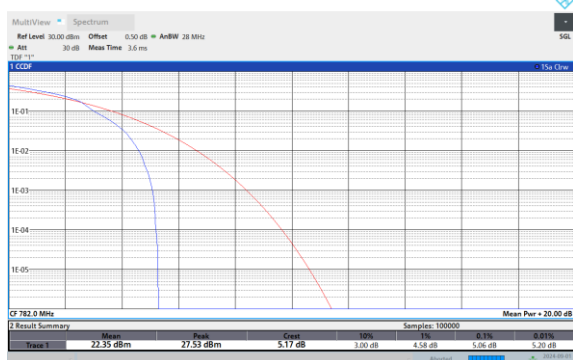
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.52	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.56	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.66	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.72	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.20	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.88	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.16	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.48	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.06	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.60	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.80	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.68	13	PASS
Band13	5MHz	64QAM	23205	1RB#0	5.80	13	PASS
Band13	5MHz	64QAM	23205	25RB#0	6.78	13	PASS
Band13	5MHz	64QAM	23230	1RB#0	6.46	13	PASS
Band13	5MHz	64QAM	23230	25RB#0	6.92	13	PASS
Band13	5MHz	64QAM	23255	1RB#0	6.92	13	PASS
Band13	5MHz	64QAM	23255	25RB#0	7.06	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.52	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.56	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.52	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.40	13	PASS
Band13	10MHz	64QAM	23230	1RB#0	5.94	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.84	13	PASS

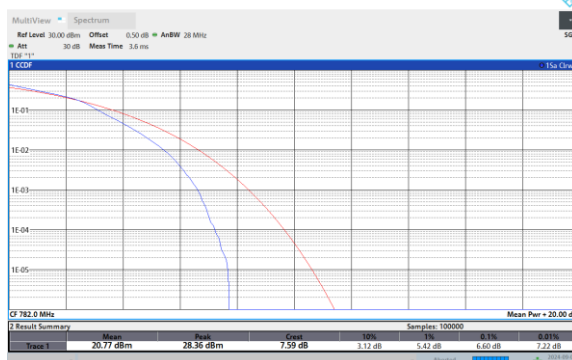
Test Graphs



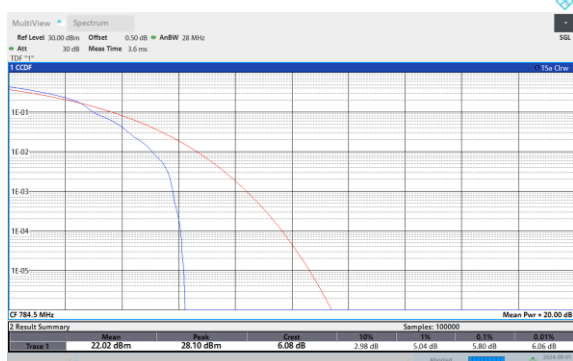
Band13-5MHz-16QAM-23230-1RB#0



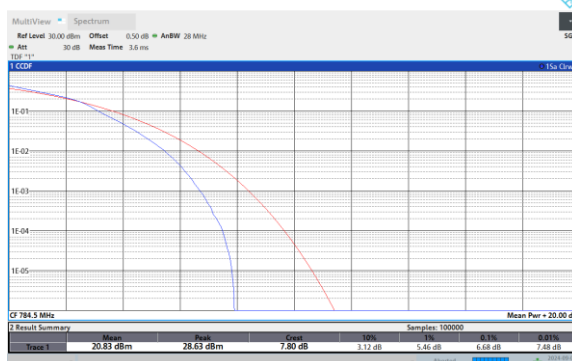
Band13-5MHz-16QAM-23230-6RB#0



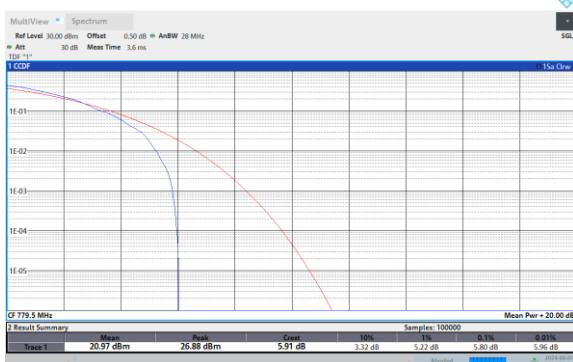
Band13-5MHz-16QAM-23255-1RB#0



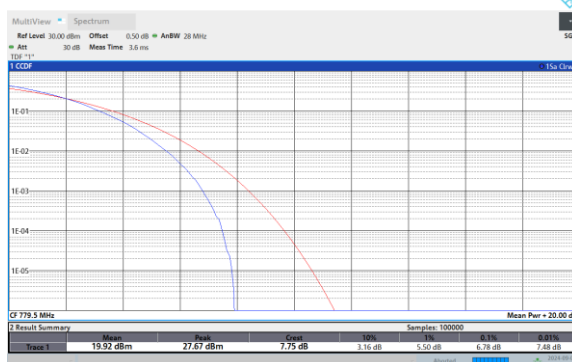
Band13-5MHz-16QAM-23255-6RB#0



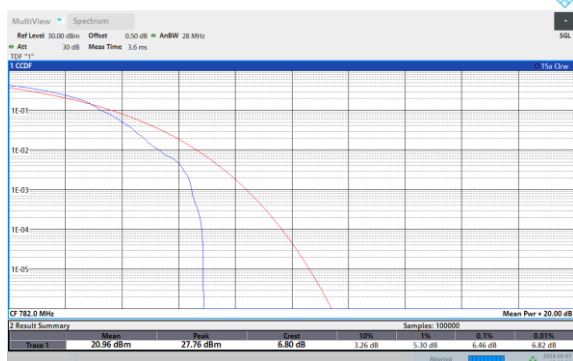
Band13-5MHz-64QAM-23205-1RB#0



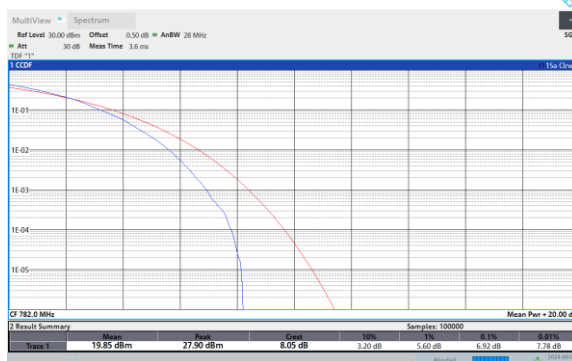
Band13-5MHz-64QAM-23205-6RB#0



Band13-5MHz-64QAM-23230-1RB#0



Band13-5MHz-64QAM-23230-6RB#0



Band13-5MHz-64QAM-23255-1RB#0

Band13-5MHz-64QAM-23255-6RB#0

