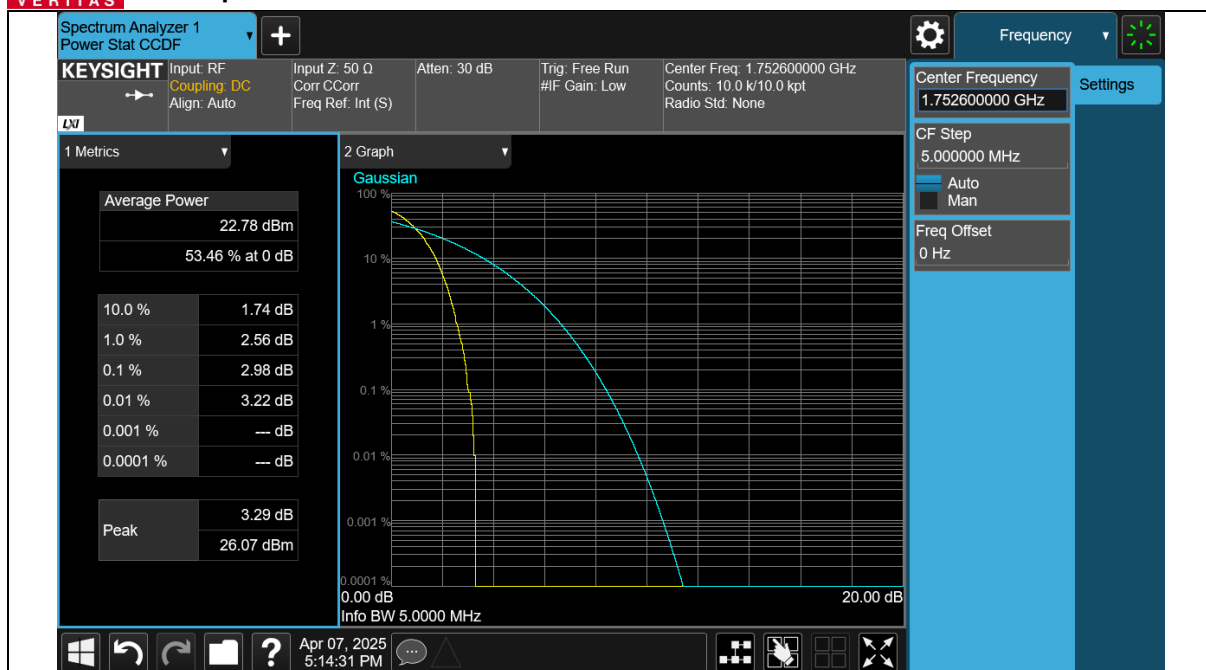




BUREAU VERITAS Test Report No.: PSU-QSU2503210311RF03





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

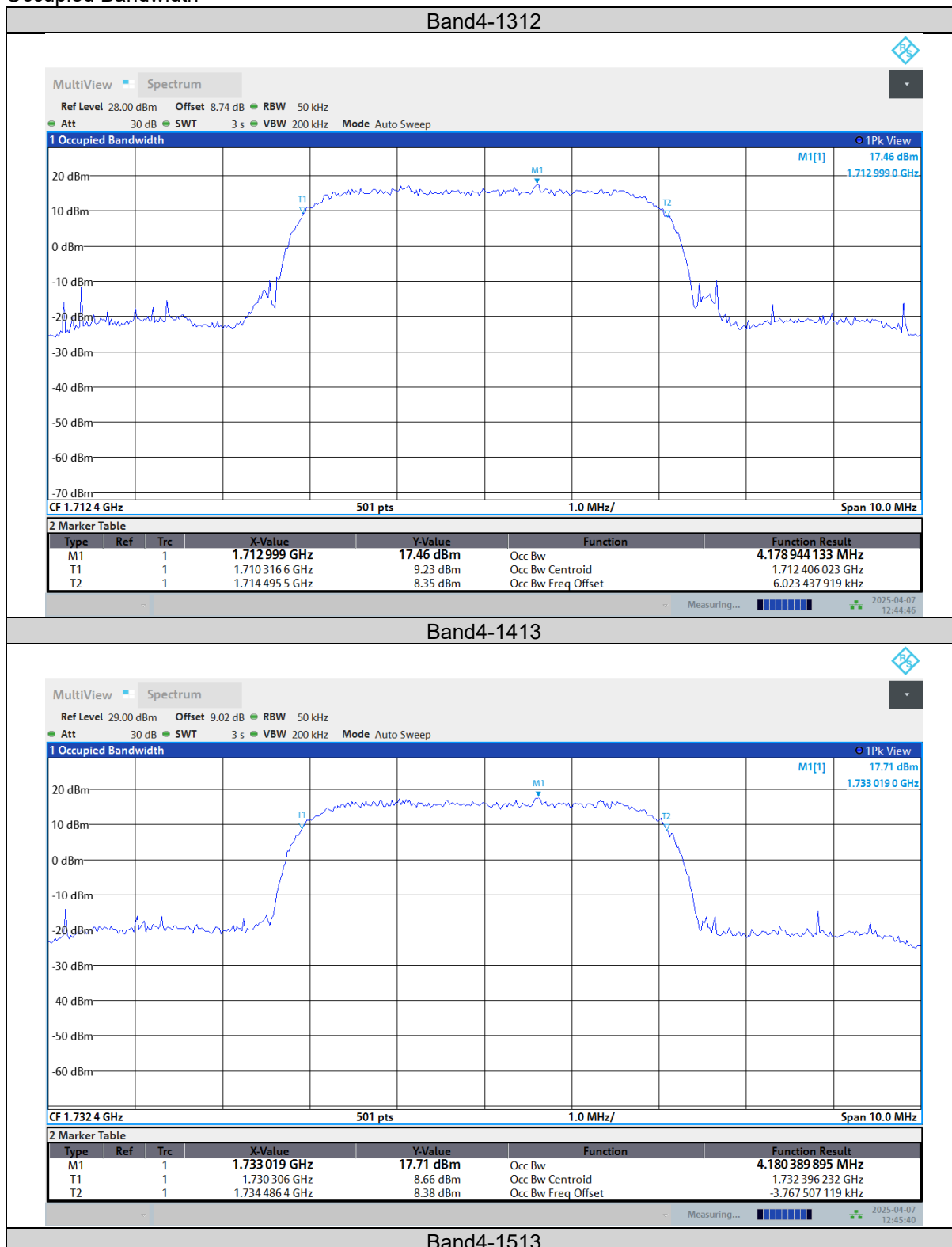
Test Result

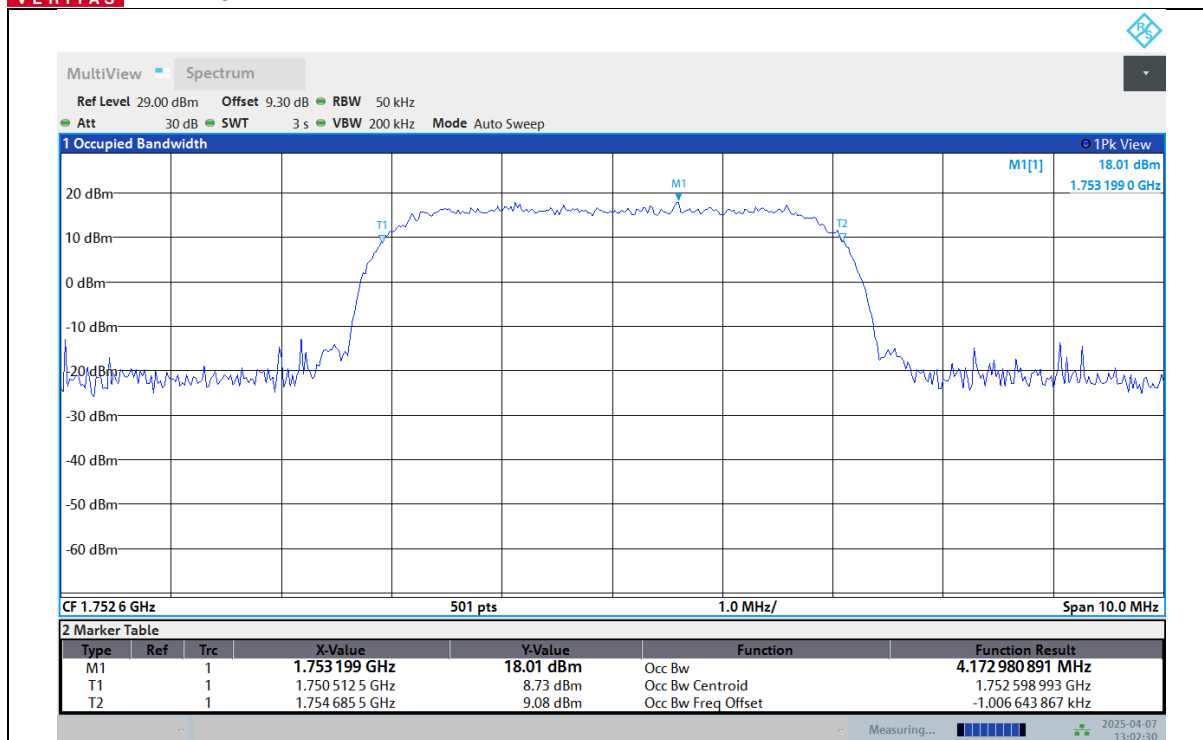
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1312	4.179	4.66	PASS
Band4	1413	4.180	4.71	PASS
Band4	1513	4.173	4.67	PASS



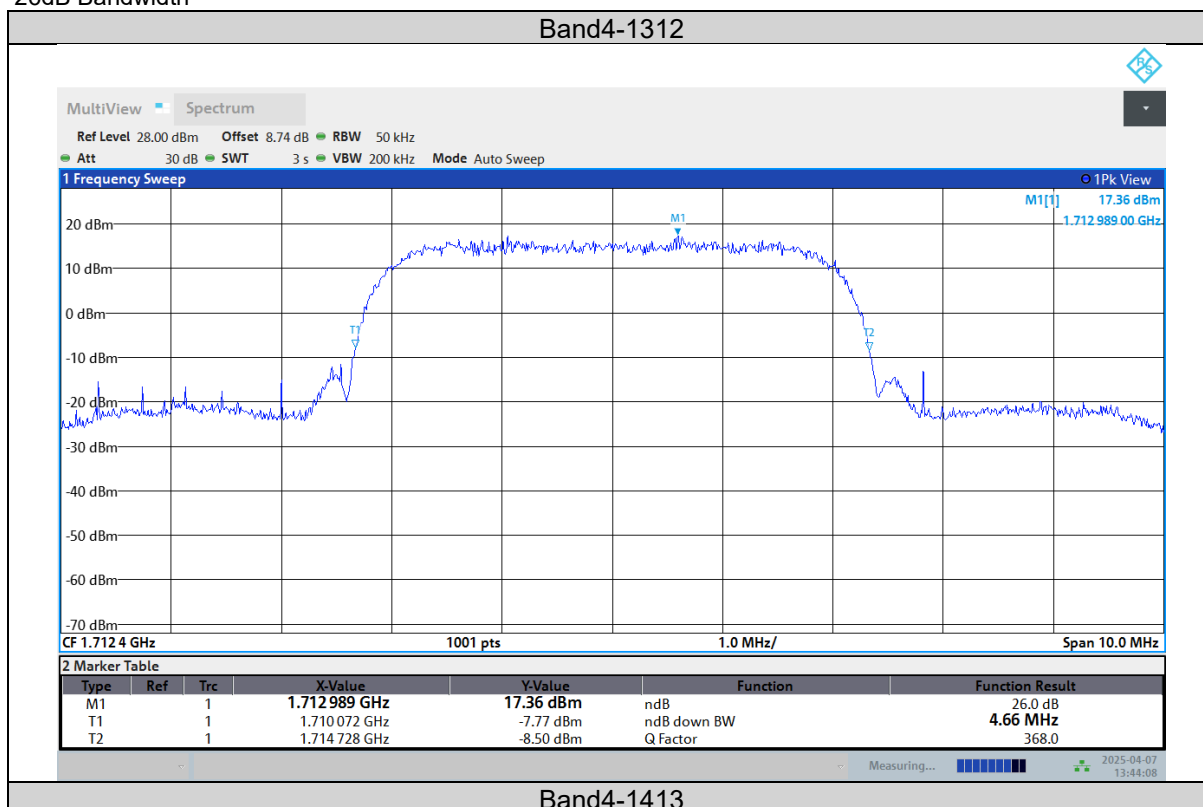
Test Graphs

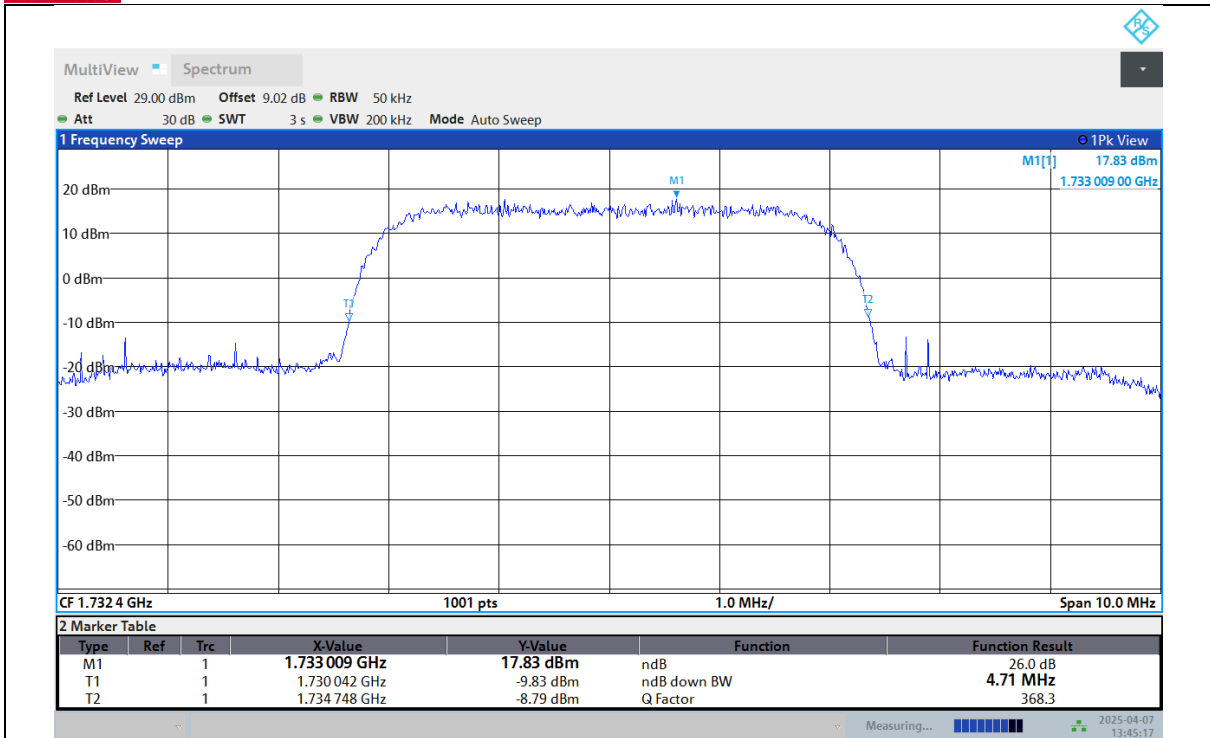
Occupied Bandwidth



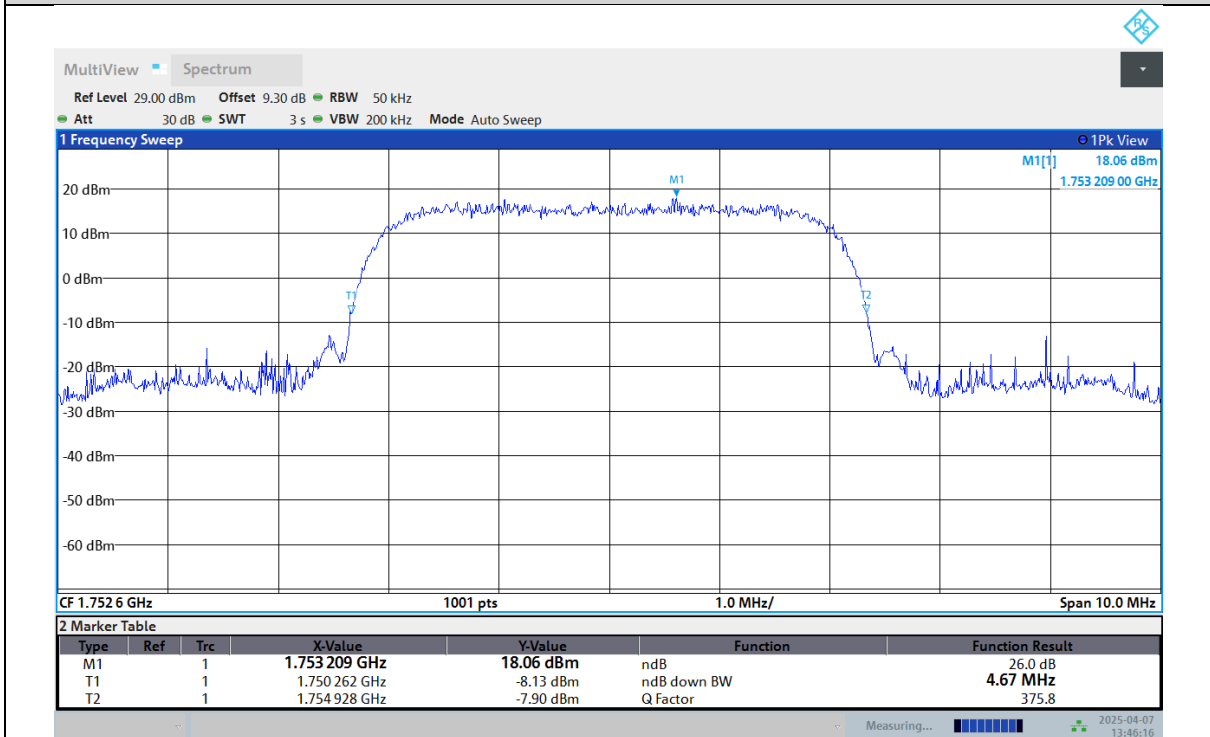


26dB Bandwidth





Band4-1513





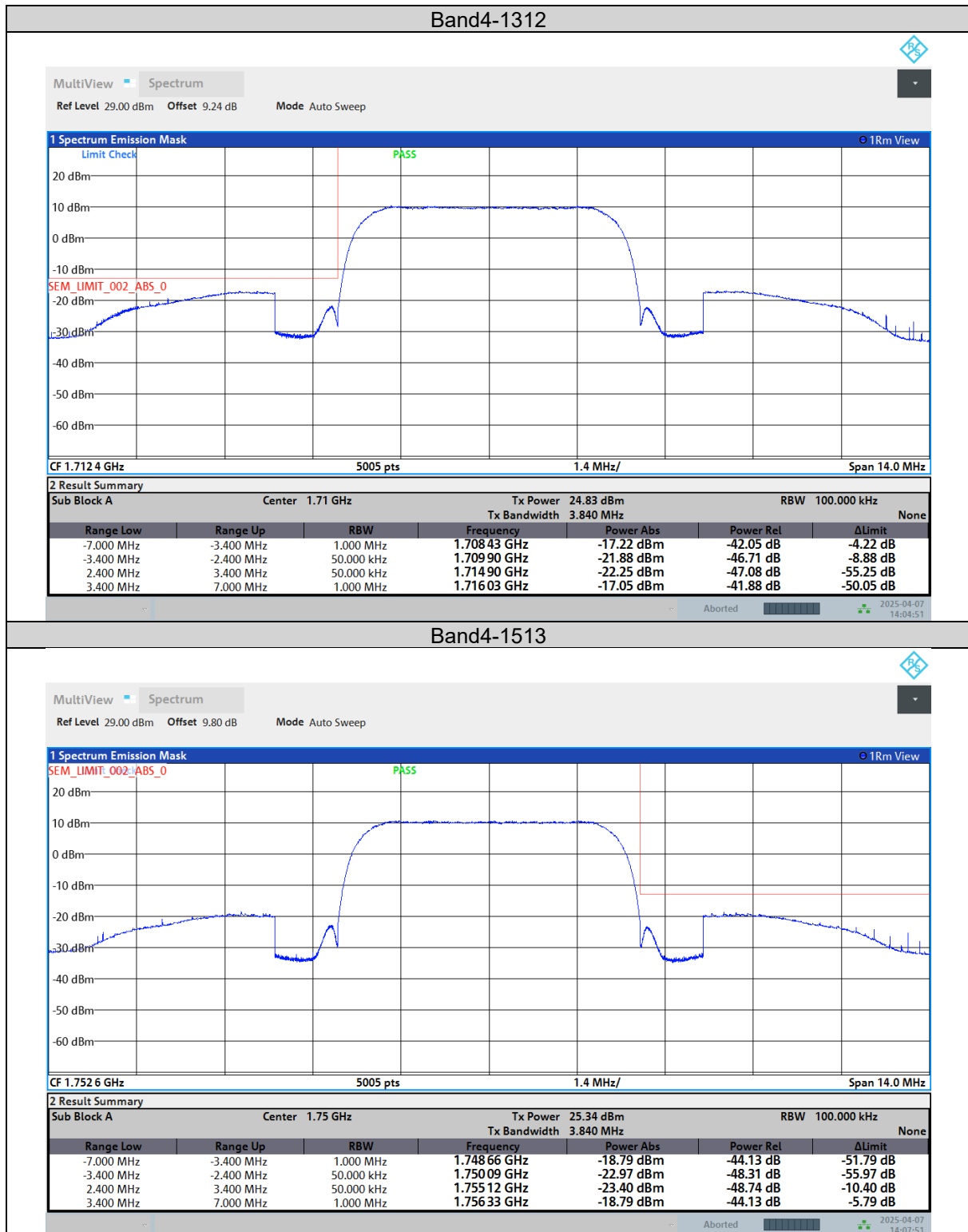
BAND EDGE

Test Result

Band	Channel	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	See Graph	-13	PASS
Band4	1513	See Graph	-13	PASS



Test Graphs





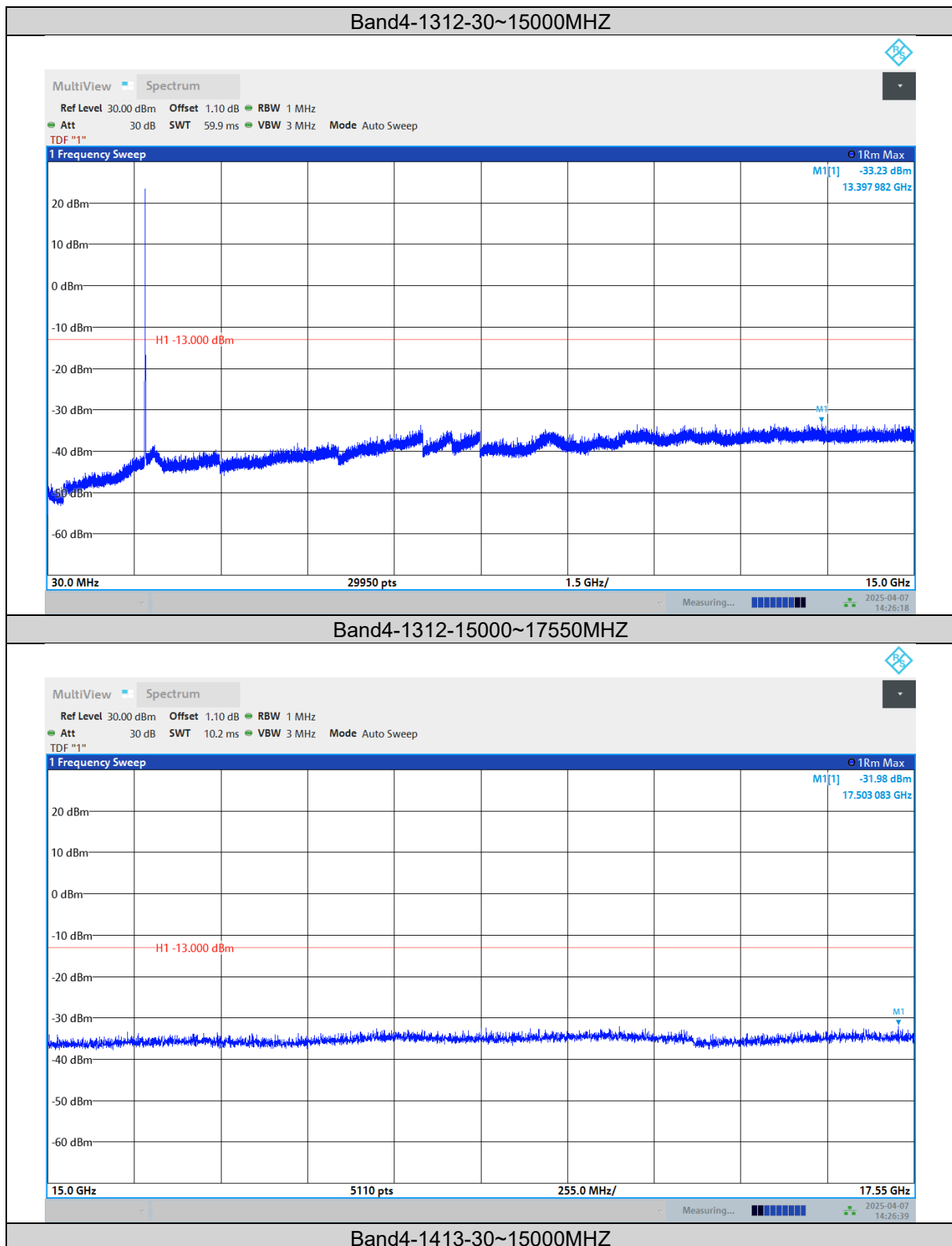
BUREAU VERITAS Test Report No.: PSU-QSU2503210311RF03
CONDUCTED SPURIOUS EMISSION

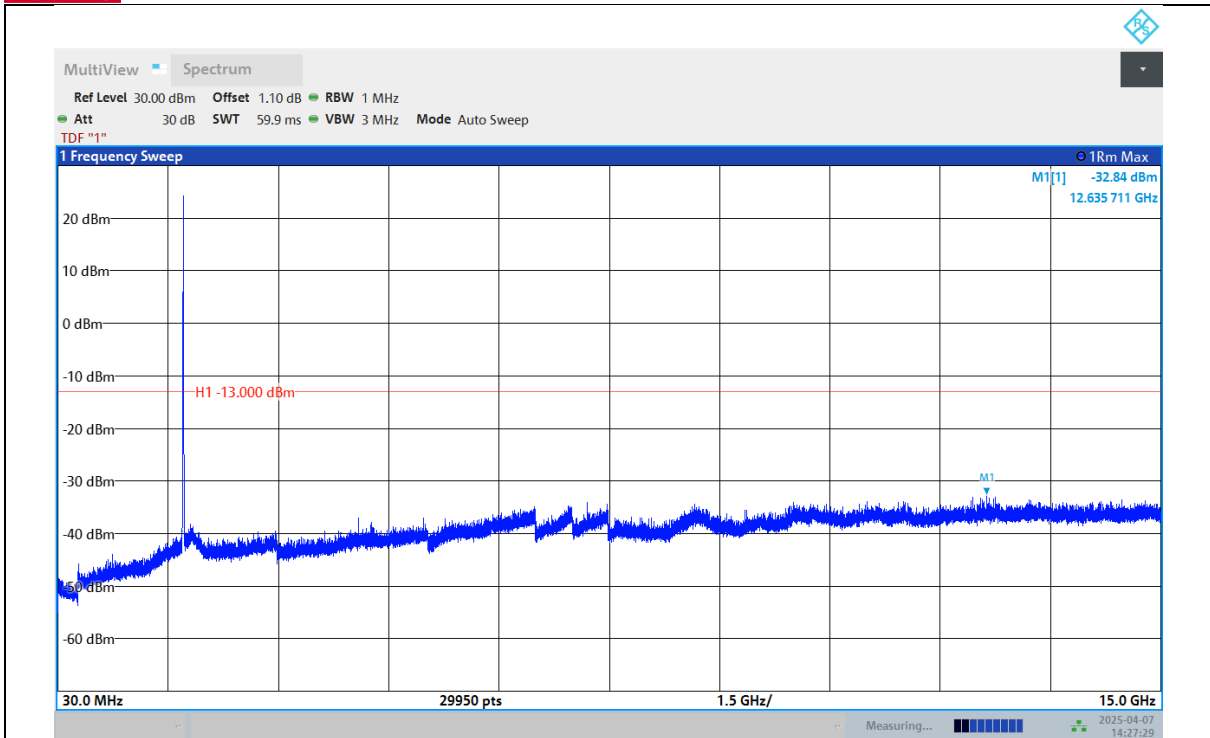
Test Result

Band	Channel	Frequency Range (Mhz)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~15000MHZ	See Graph	-13	PASS
Band4	1312	15000~17550MHZ	See Graph	-13	PASS
Band4	1413	30~15000MHZ	See Graph	-13	PASS
Band4	1312	15000~17550MHZ	See Graph	-13	PASS
Band4	1513	30~15000MHZ	See Graph	-13	PASS
Band4	1312	15000~17550MHZ	See Graph	-13	PASS

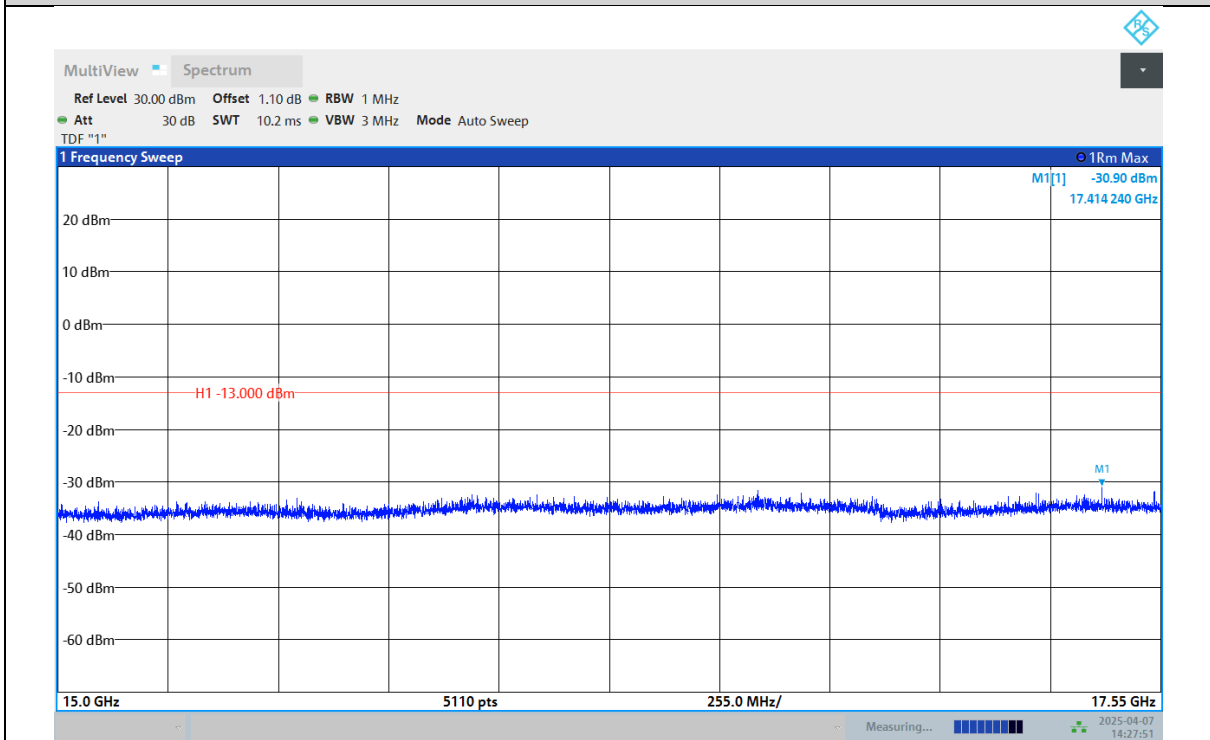


Test Graphs

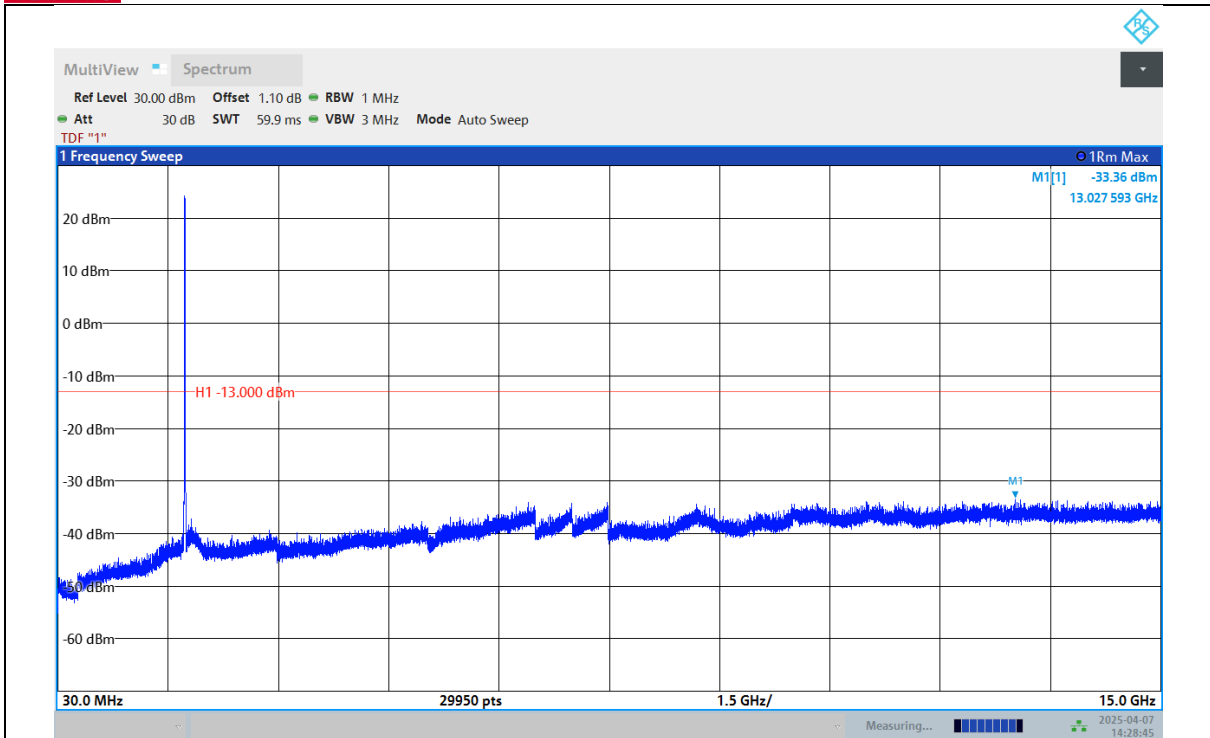




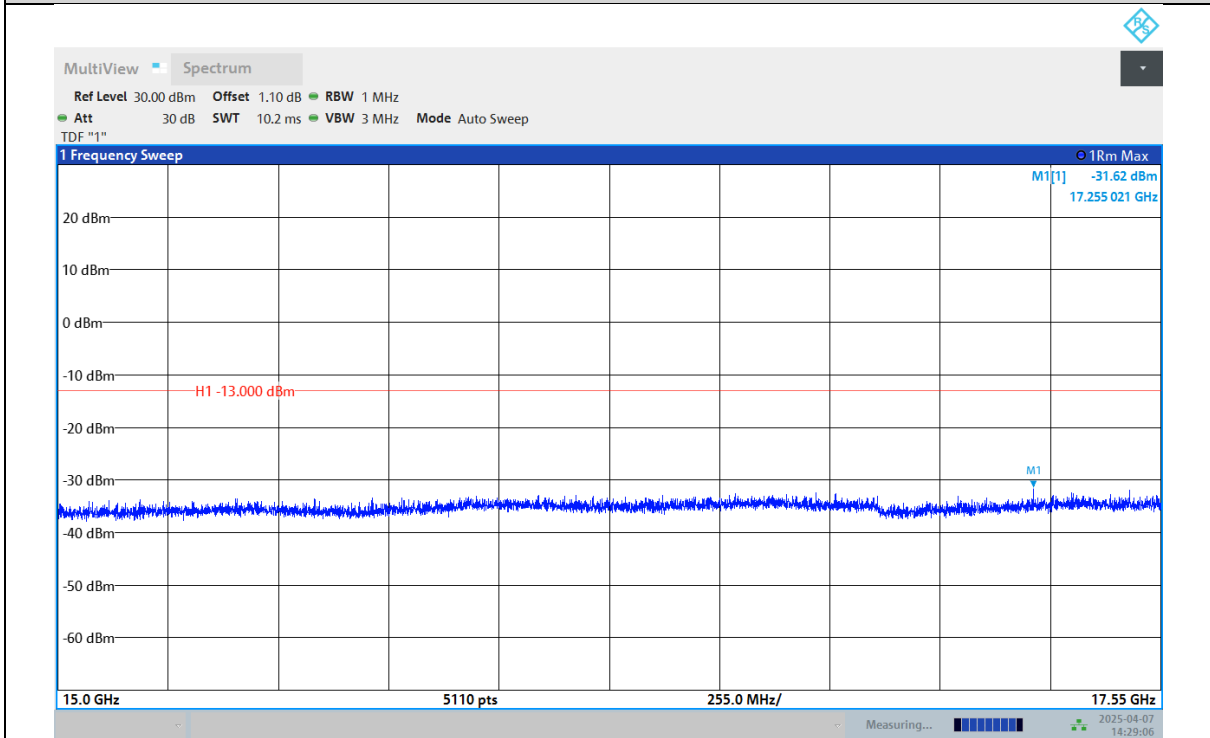
Band4-1413-15000~17550MHZ



Band4-1513-30~15000MHZ



Band4-1513-15000~17550MHZ



**FREQUENCY STABILITY****Test Result**

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	1.99	0.0012	±2.5	PASS
Band4	1312	VN	NT	-6.68	-0.0039	±2.5	PASS
Band4	1312	VH	NT	6.03	0.0035	±2.5	PASS
Band4	1413	VL	NT	-9.11	-0.0052	±2.5	PASS
Band4	1413	VN	NT	-3.75	-0.0021	±2.5	PASS
Band4	1413	VH	NT	-7.31	-0.0042	±2.5	PASS
Band4	1513	VL	NT	6.32	0.0035	±2.5	PASS
Band4	1513	VN	NT	1.83	0.0010	±2.5	PASS
Band4	1513	VH	NT	3.61	0.0020	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	7.48	0.0044	±2.5	PASS
Band4	1312	NV	-20	-1.25	0.0009	±2.5	PASS
Band4	1312	NV	0	-9.50	-0.0055	±2.5	PASS
Band4	1312	NV	-10	-4.18	-0.0024	±2.5	PASS
Band4	1312	NV	10	9.82	0.0057	±2.5	PASS
Band4	1312	NV	20	1.84	0.0011	±2.5	PASS
Band4	1312	NV	30	7.21	0.0042	±2.5	PASS
Band4	1312	NV	40	-2.09	-0.0012	±2.5	PASS
Band4	1312	NV	50	0.90	0.0005	±2.5	PASS
Band4	1413	NV	-30	-1.36	-0.0008	±2.5	PASS
Band4	1413	NV	-20	4.43	0.0025	±2.5	PASS
Band4	1413	NV	-10	-6.05	-0.0035	±2.5	PASS
Band4	1413	NV	0	0.85	0.0005	±2.5	PASS
Band4	1413	NV	10	-4.47	-0.0026	±2.5	PASS
Band4	1413	NV	20	1.32	0.0008	±2.5	PASS
Band4	1413	NV	30	-4.79	-0.0027	±2.5	PASS
Band4	1413	NV	40	2.65	0.0015	±2.5	PASS
Band4	1413	NV	50	-3.38	-0.0019	±2.5	PASS
Band4	1513	NV	-30	-7.58	-0.0043	±2.5	PASS
Band4	1513	NV	-20	8.62	0.0048	±2.5	PASS
Band4	1513	NV	-10	-8.63	-0.0048	±2.5	PASS
Band4	1513	NV	0	4.18	0.0023	±2.5	PASS
Band4	1513	NV	10	3.02	0.0017	±2.5	PASS
Band4	1513	NV	20	2.79	0.0016	±2.5	PASS
Band4	1513	NV	30	4.04	0.0023	±2.5	PASS
Band4	1513	NV	40	-2.25	-0.0013	±2.5	PASS
Band4	1513	NV	50	-0.57	-0.0003	±2.5	PASS



LTE BAND7

PEAK-TO-AVERAGE RATIO(CCDF)

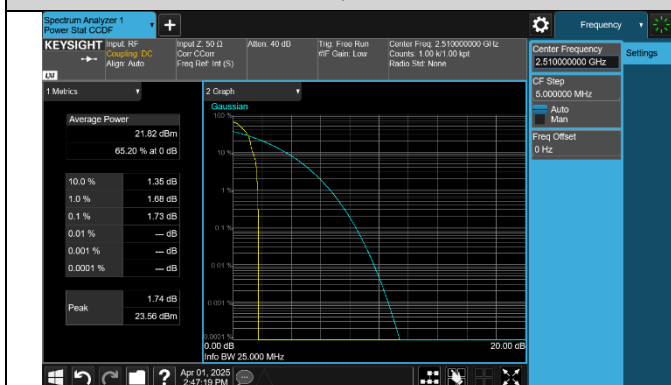
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	1.73	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.17	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	2.81	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.36	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	2.83	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.12	13	PASS

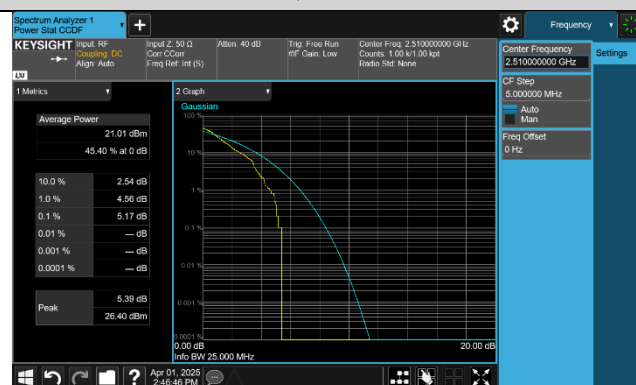


Test Graphs

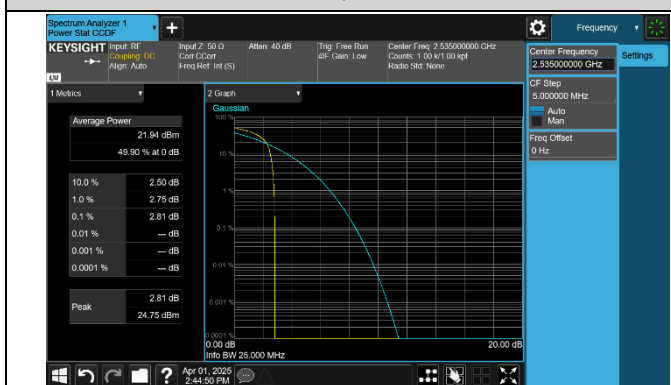
Band7-20MHz-QPSK-20850-1RB#0



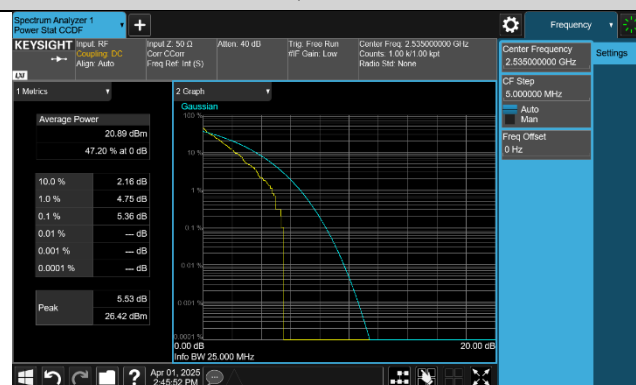
Band7-20MHz-QPSK-20850-100RB#0



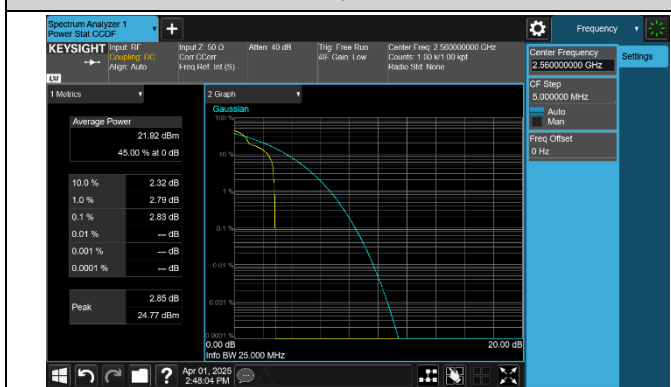
Band7-20MHz-QPSK-21100-1RB#0



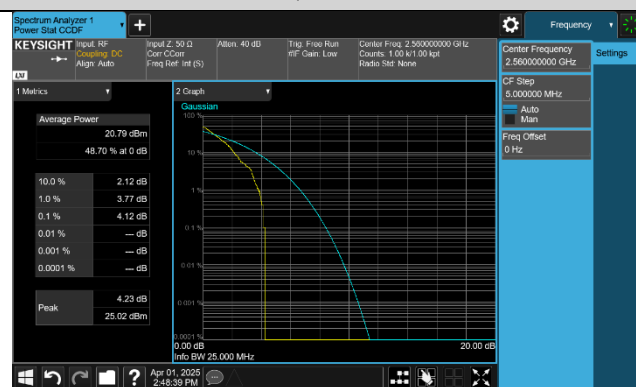
Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-QPSK-21350-1RB#0



Band7-20MHz-QPSK-21350-100RB#0





BUREAU VERITAS Test Report No.: PSU-QSU2503210311RF03
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

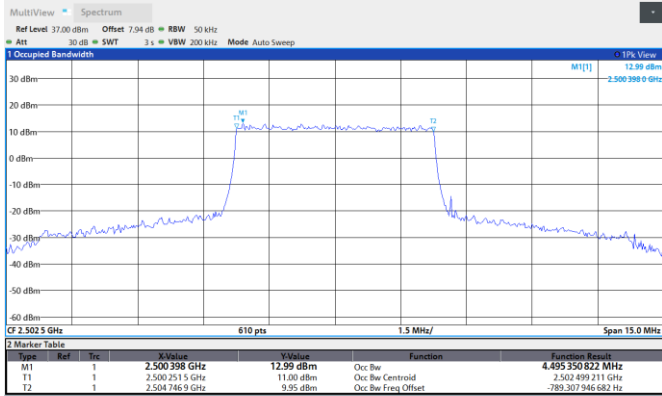
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.495	4.86	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.480	4.83	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.492	4.81	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.490	4.79	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.488	4.84	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.480	4.83	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.479	4.84	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.481	4.84	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.480	4.83	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.980	9.62	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.945	9.62	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.968	9.62	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.957	9.56	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.972	9.53	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.968	9.65	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.962	9.59	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.976	9.53	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.975	9.56	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.486	14.65	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.444	14.48	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.480	14.48	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.501	14.34	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.473	14.43	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.501	14.39	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.455	14.43	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.490	14.39	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.557	14.48	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.928	19.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.865	19.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.961	19.12	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.970	19.06	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.901	19.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.940	19.12	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.972	19.06	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.903	19.06	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.935	19.00	PASS



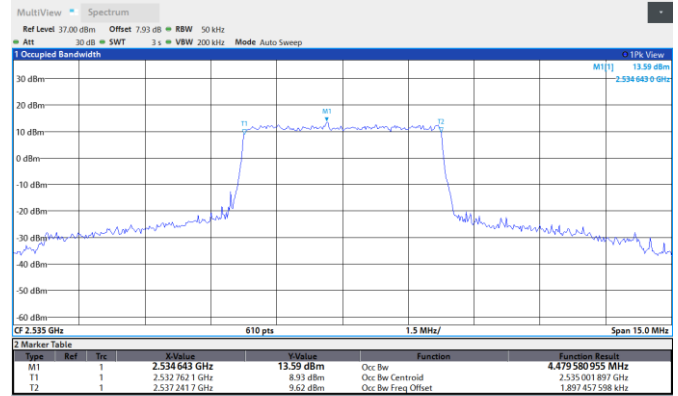
Test Graphs

Occupied Bandwidth

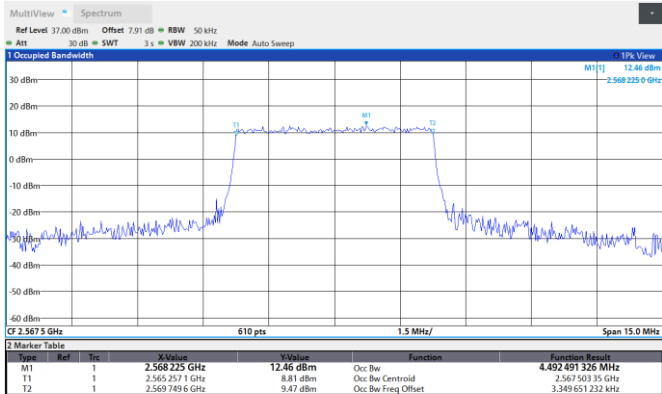
Band7-5MHz-QPSK-20775-25RB#



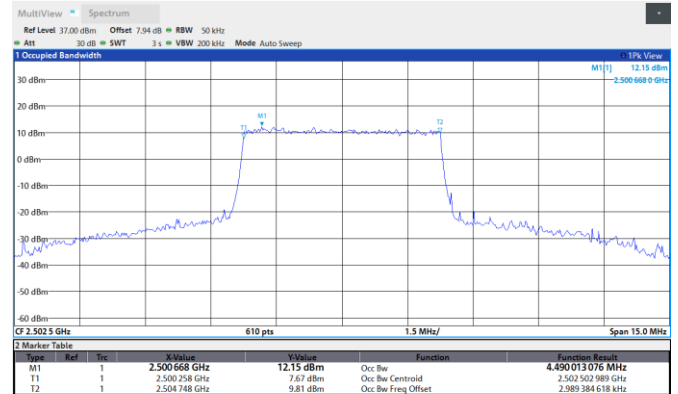
Band7-5MHz-QPSK-21100-25RB#0



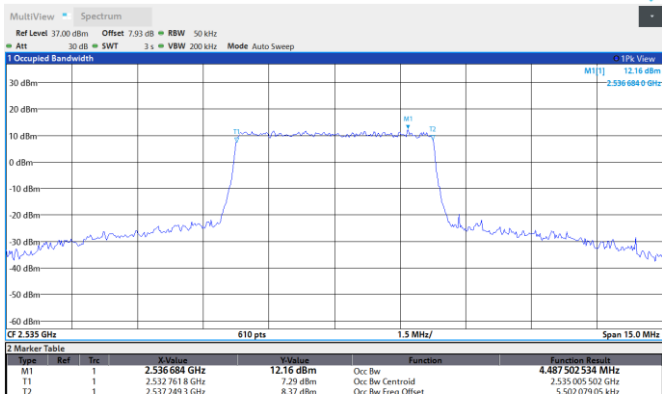
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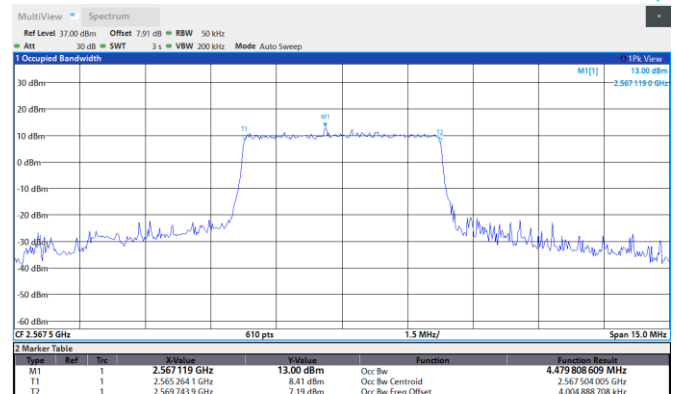
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Band7-5MHz-16QAM-21100-25RB#0



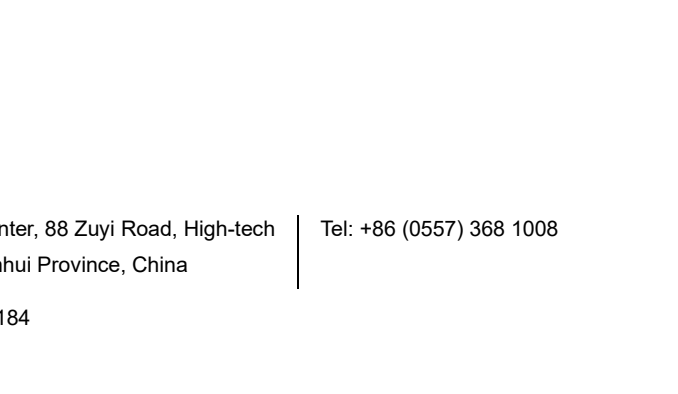
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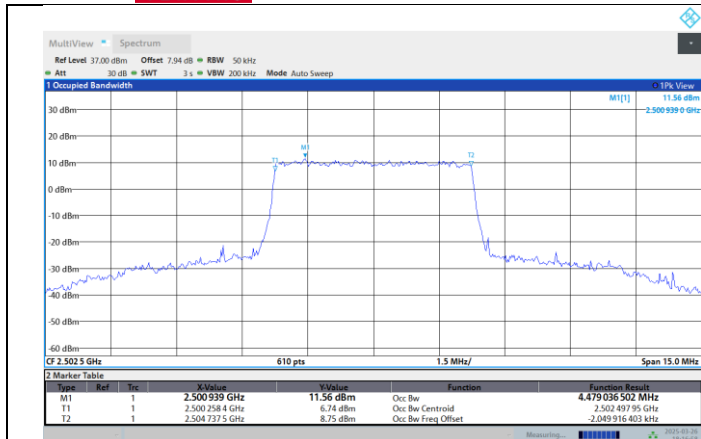


Band7-5MHz-64QAM-20775-25RB#0

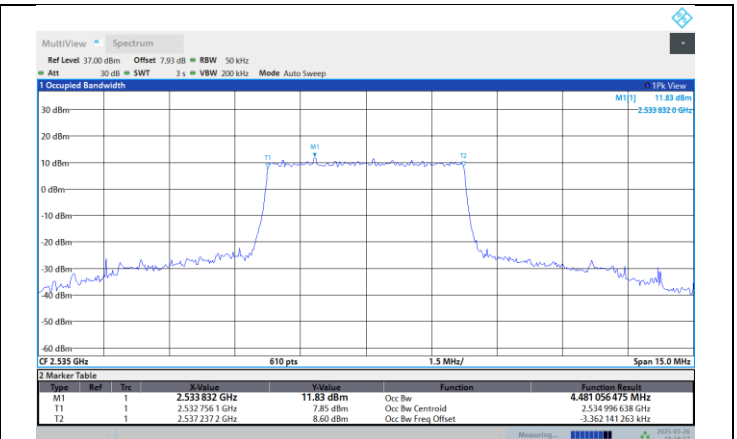


Band7-5MHz-64QAM-21100-25RB#0

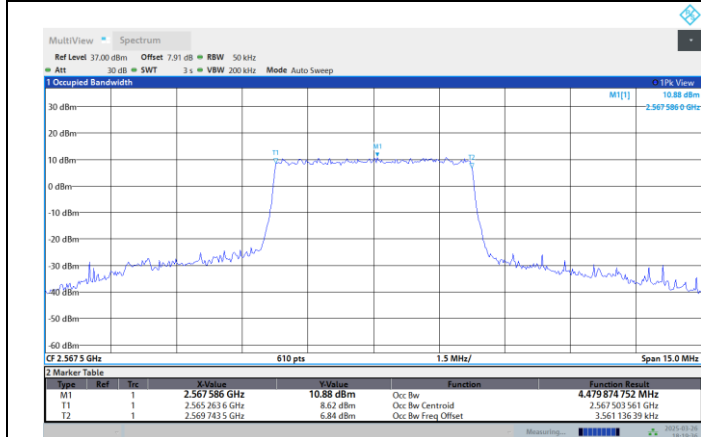




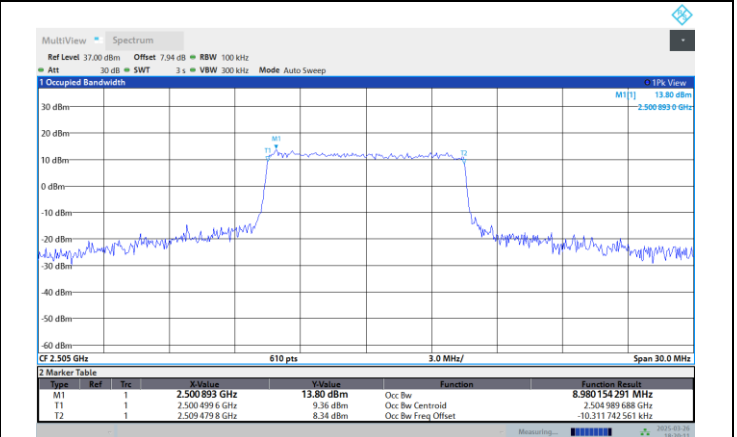
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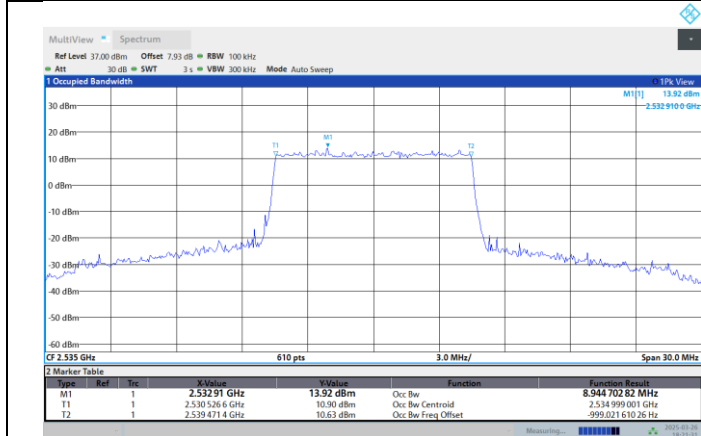
Band7-10MHz-QPSK-20800-50RB#0



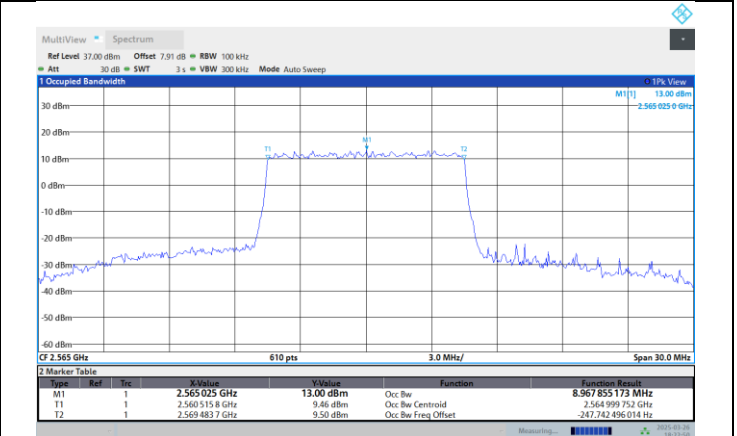
Band7-10MHz-QPSK-21100-50RB#0



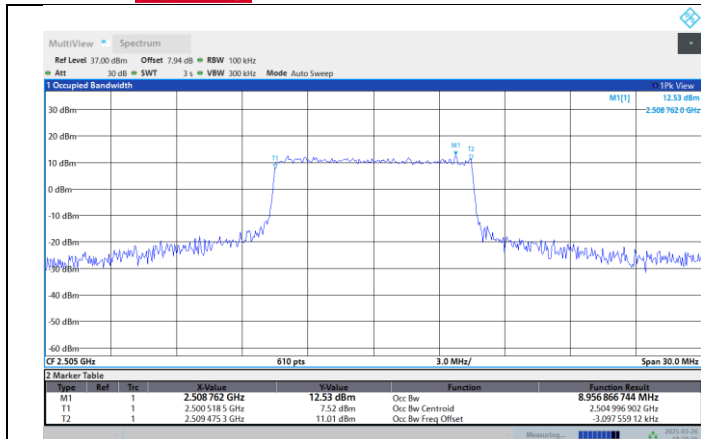
Band7-10MHz-QPSK-21400-50RB#0



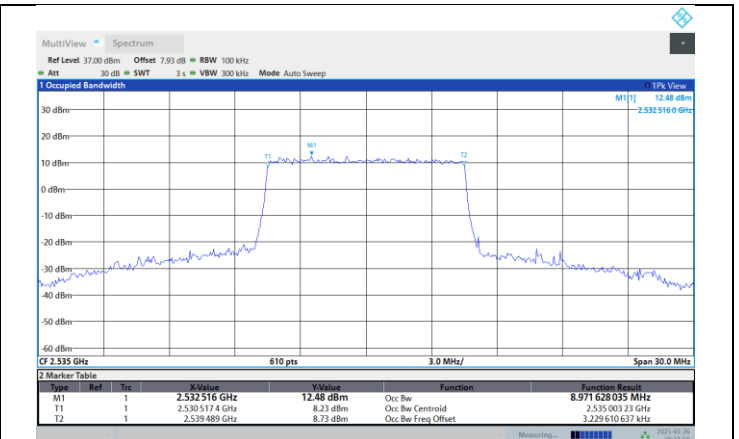
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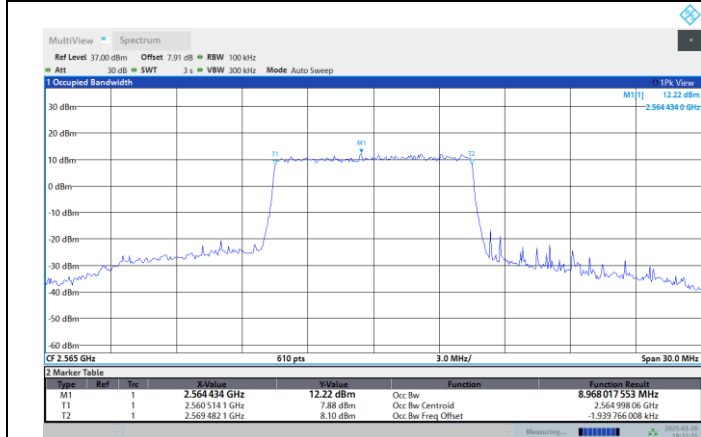
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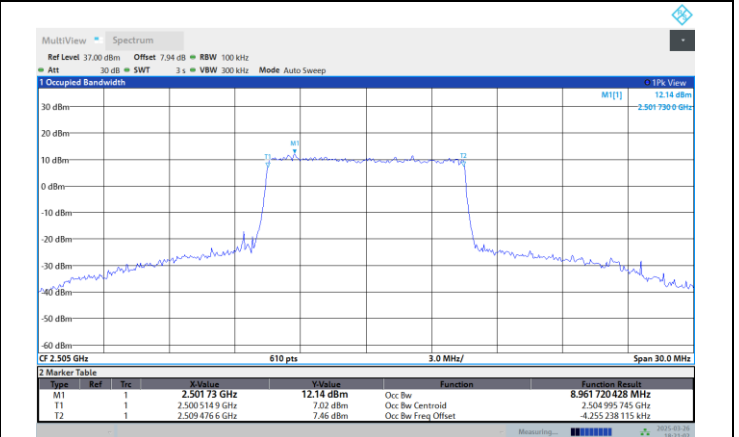
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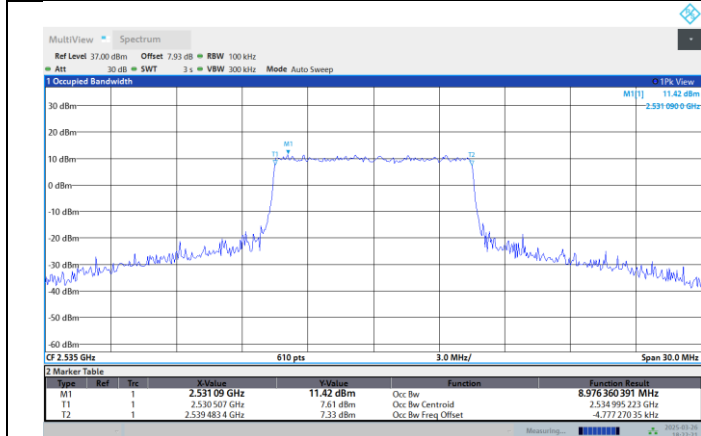
Band7-10MHz-64QAM-20800-50RB#0



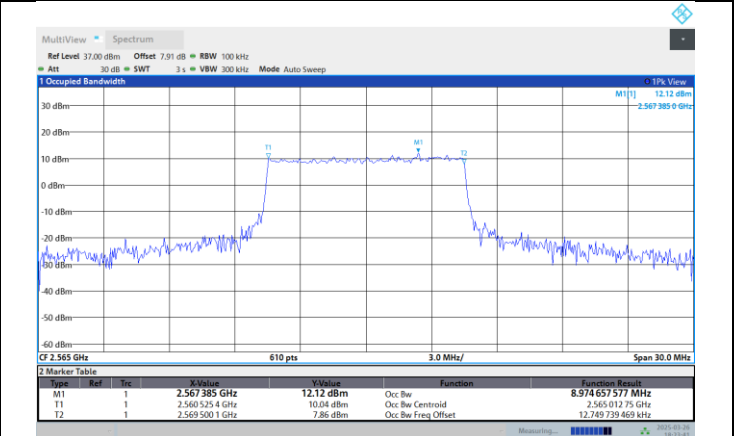
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Band7-10MHz-64QAM-21400-50RB#0



Band7-15MHz-QPSK-20825-75RB#0

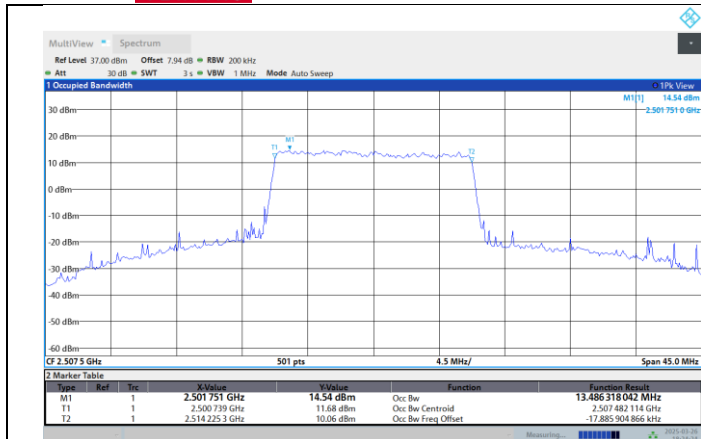


Band7-15MHz-QPSK-21100-75RB#0

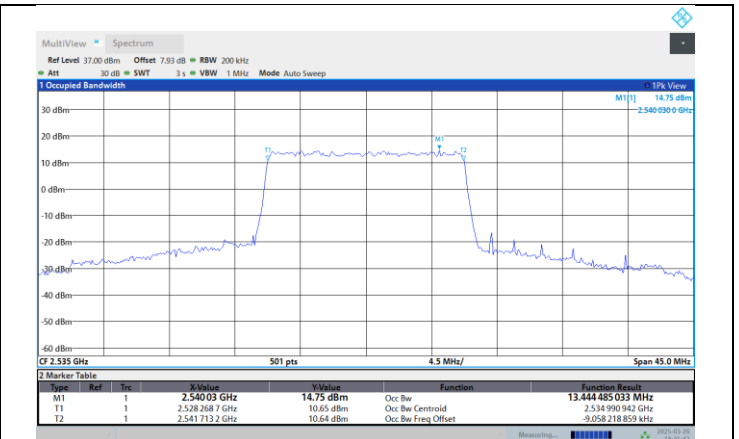


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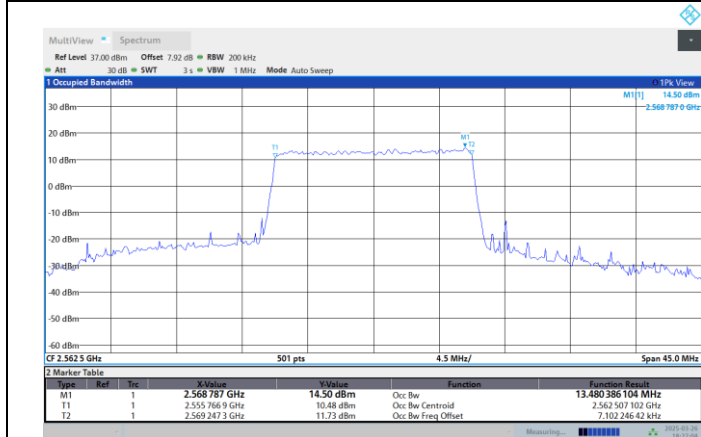
Test Report No.: PSU-QSU2503210311RF03



Band7-15MHz-QPSK-21375-75RB#0



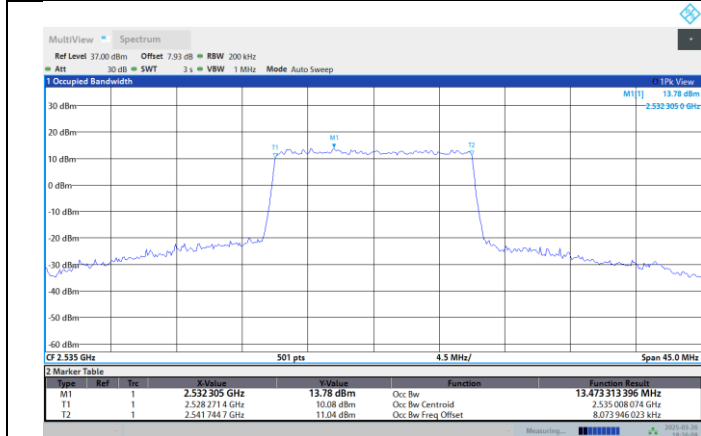
Band7-15MHz-16QAM-20825-75RB#0



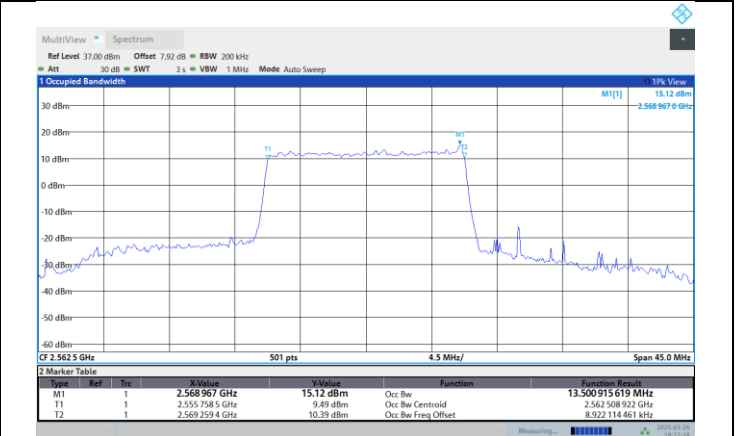
Band7-15MHz-16QAM-21100-75RB#0



Band7-15MHz-16QAM-21375-75RB#0



Band7-15MHz-64QAM-20825-75RB#0

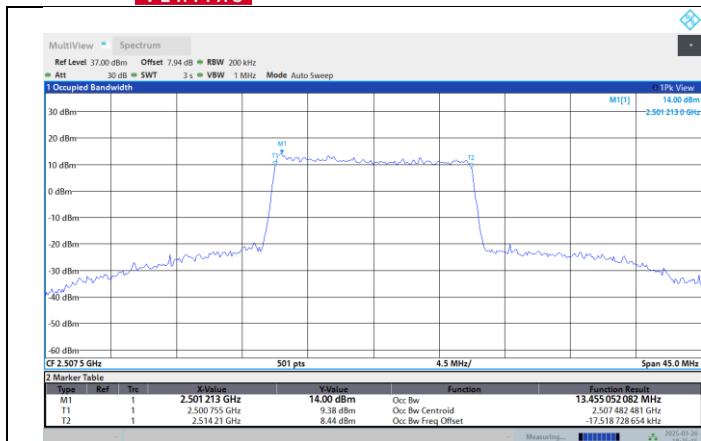


Band7-15MHz-64QAM-21100-75RB#0

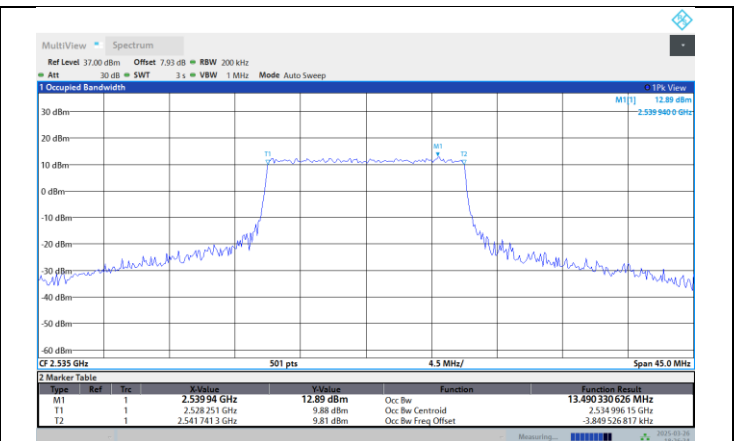


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VERITAS

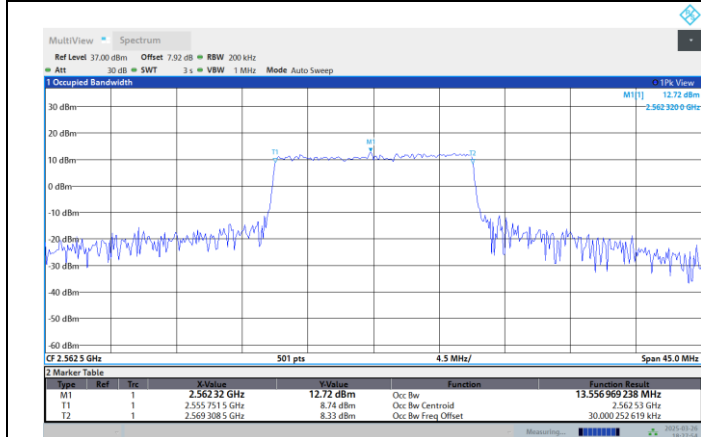
Test Report No.: PSU-QSU2503210311RF03



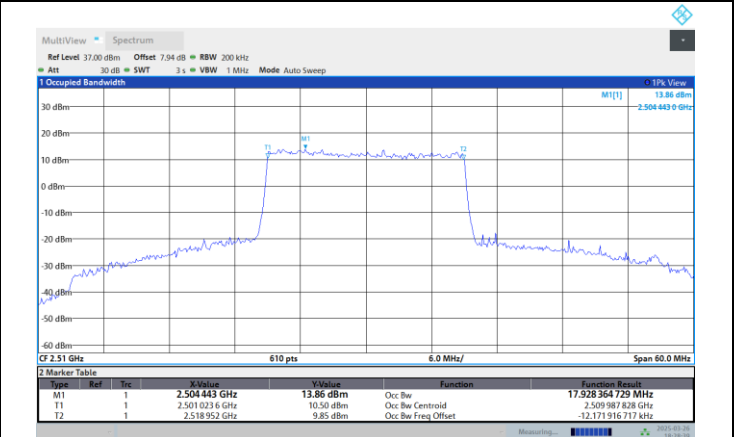
Band7-15MHz-64QAM-21375-75RB#0



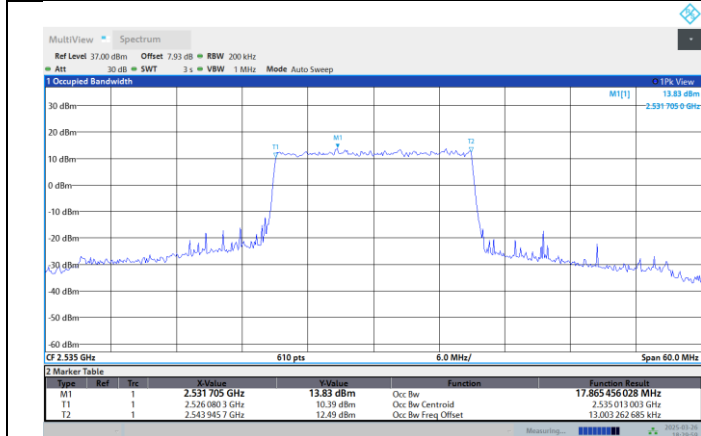
Band7-20MHz-QPSK-20850-100RB#0



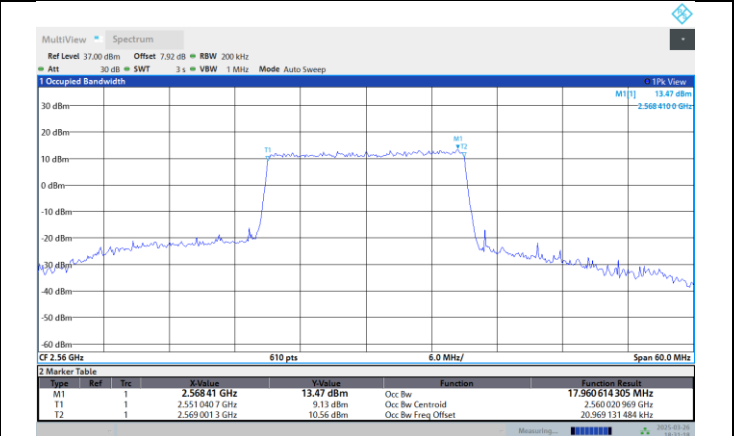
Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0

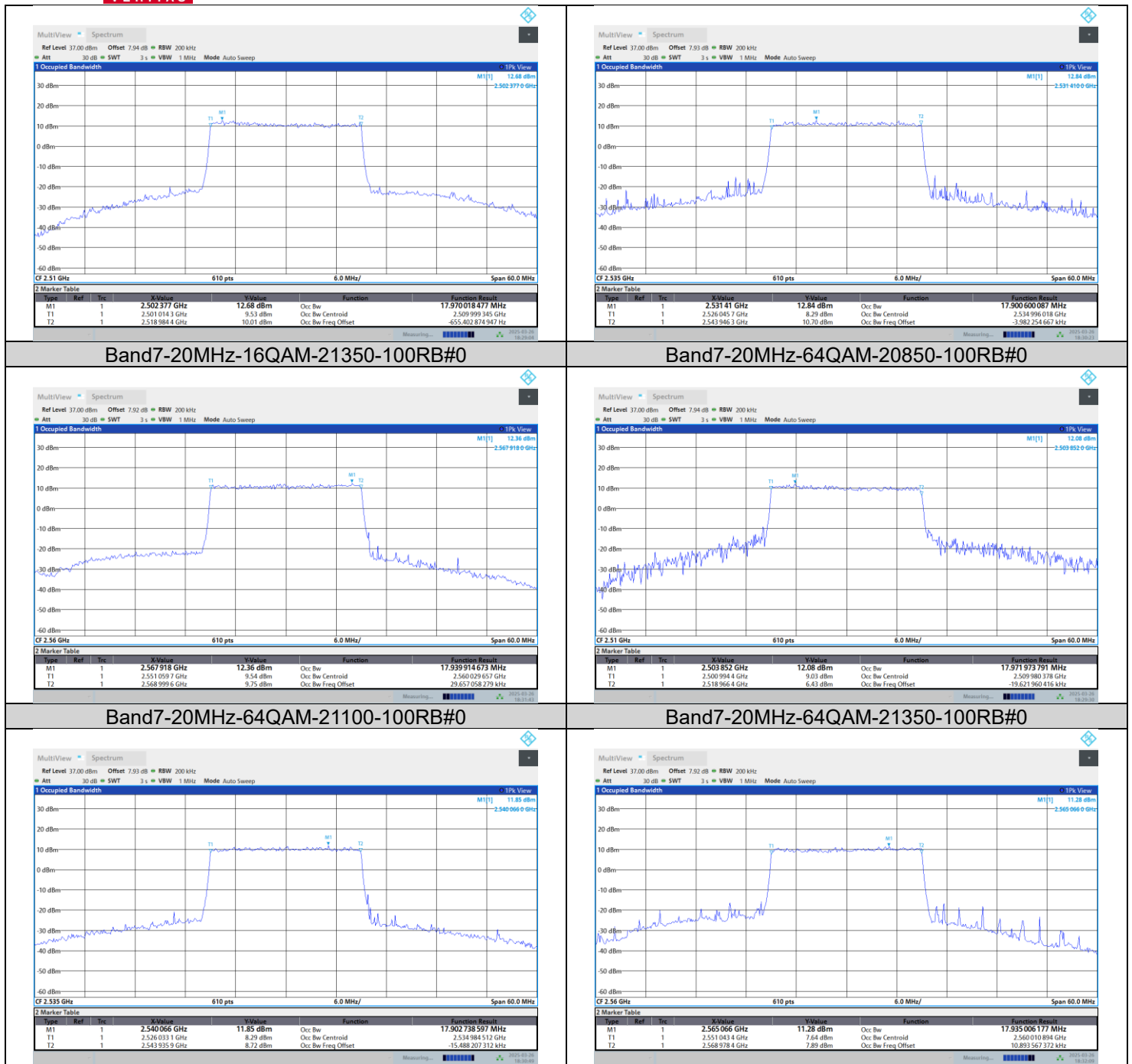


Band7-20MHz-16QAM-21100-100RB#0



BUREAU
VERITAS

Test Report No.: PSU-QSU2503210311RF03



26dB Bandwidth

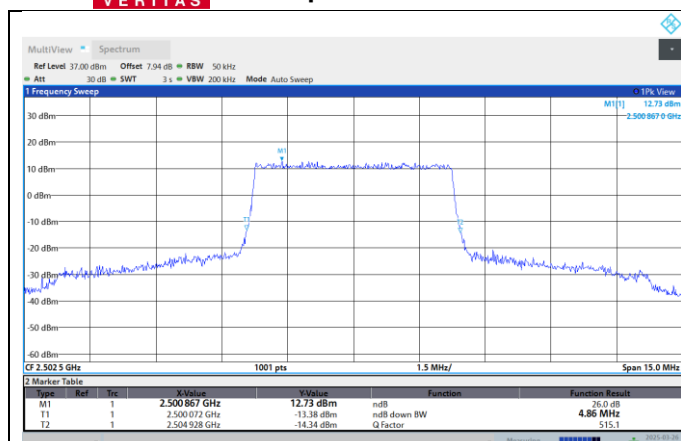
Band7-5MHz-QPSK-20775-25RB#

Band7-5MHz-QPSK-21100-25RB#0

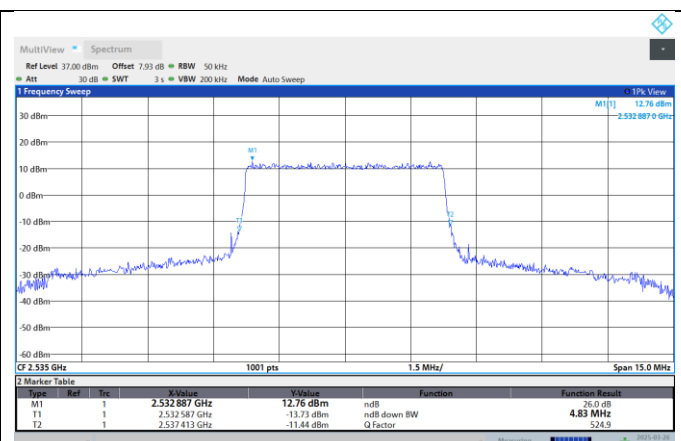
Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

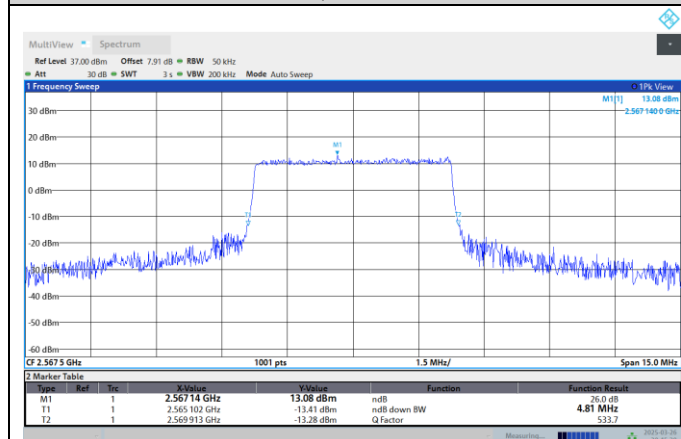
Tel: +86 (0557) 368 1008



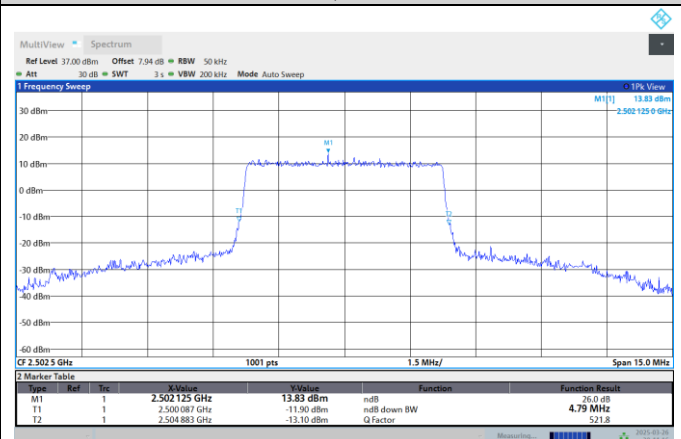
Band7-5MHz-QPSK-21425-25RB#0



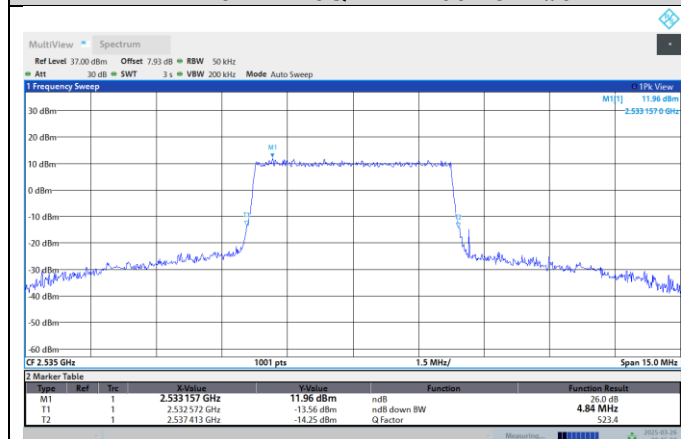
Band7-5MHz-16QAM-20775-25RB#0



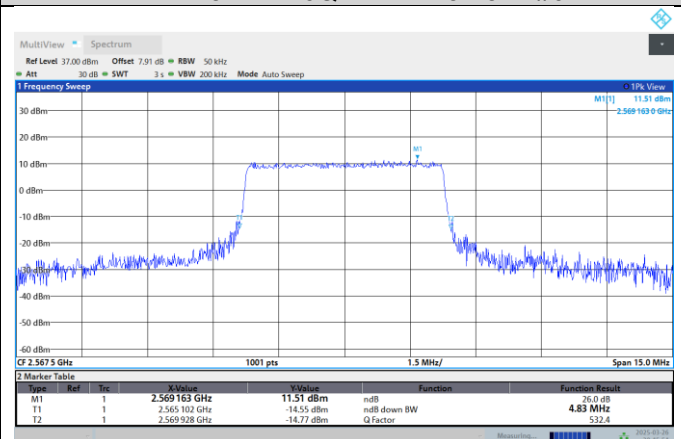
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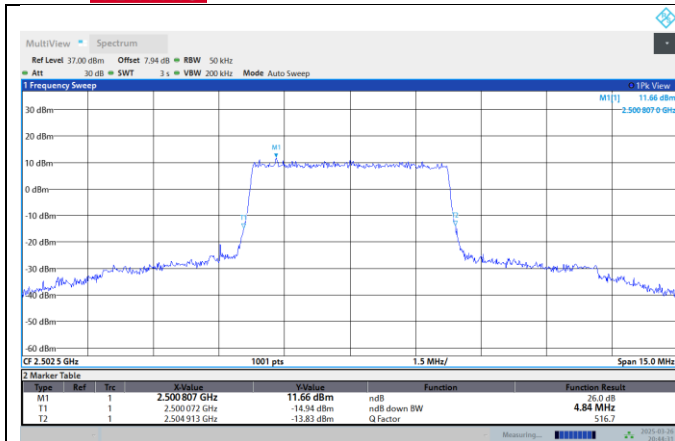
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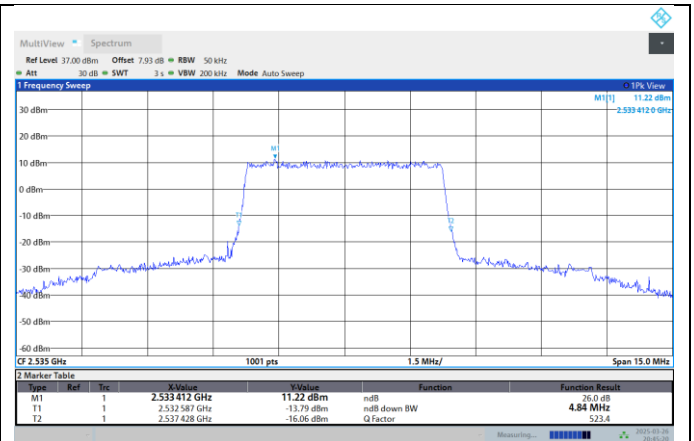
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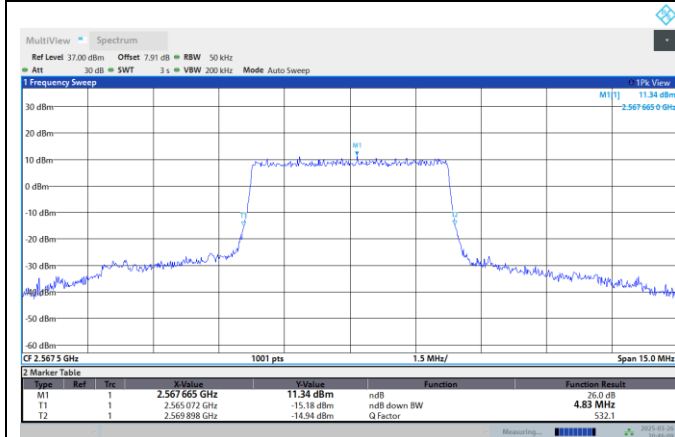
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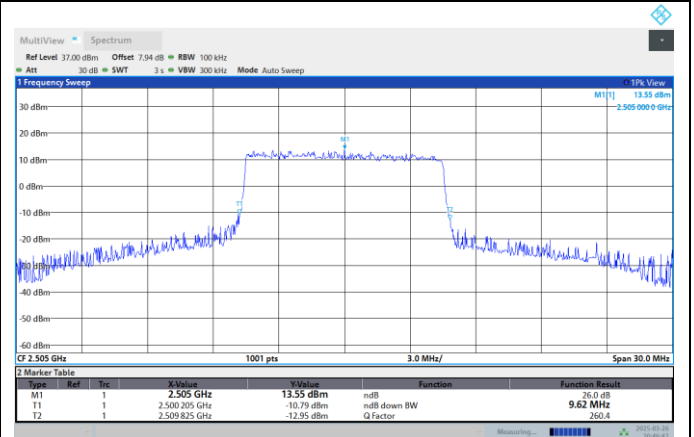
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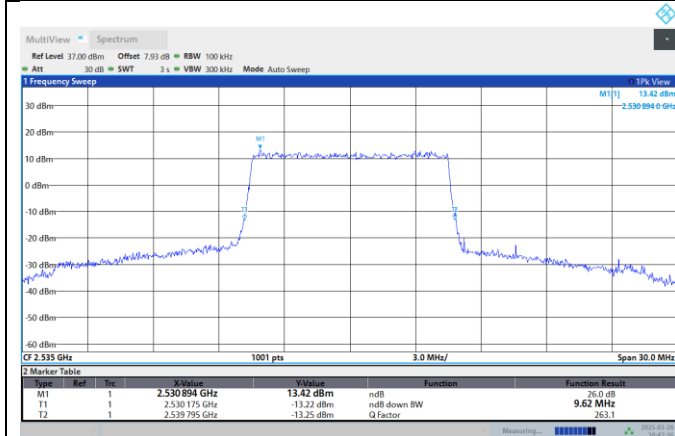
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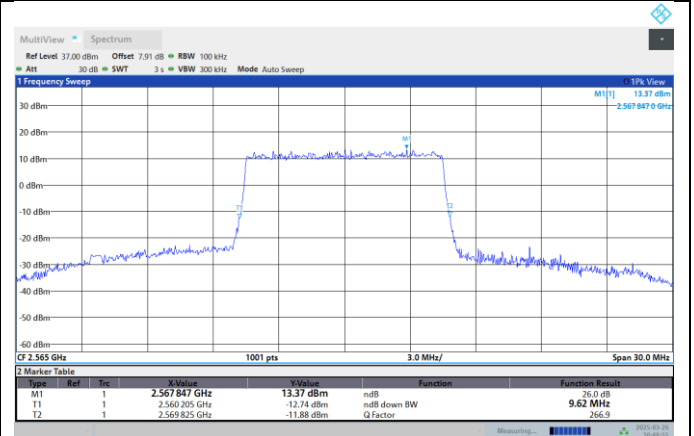
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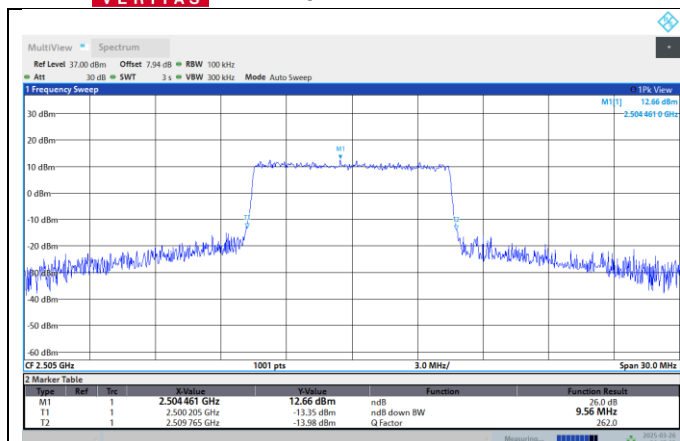
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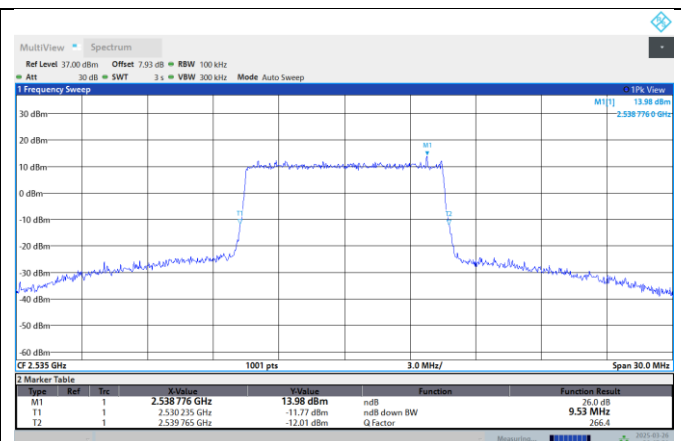
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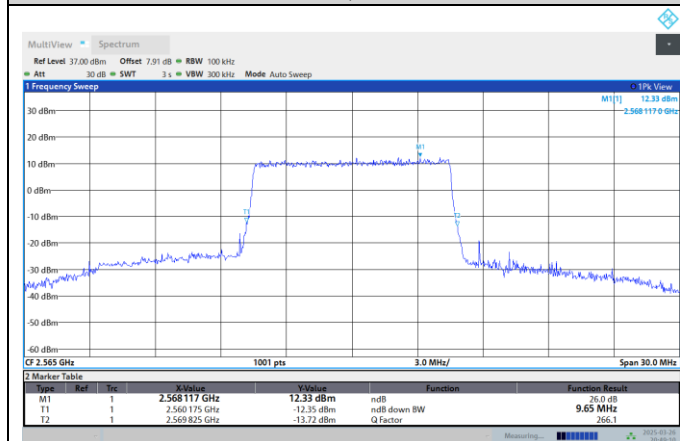
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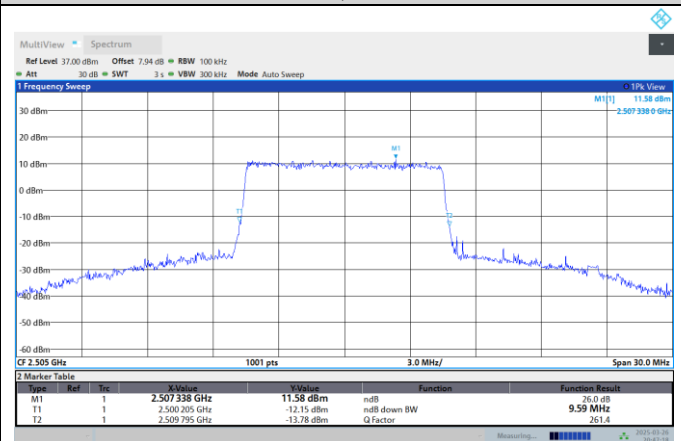
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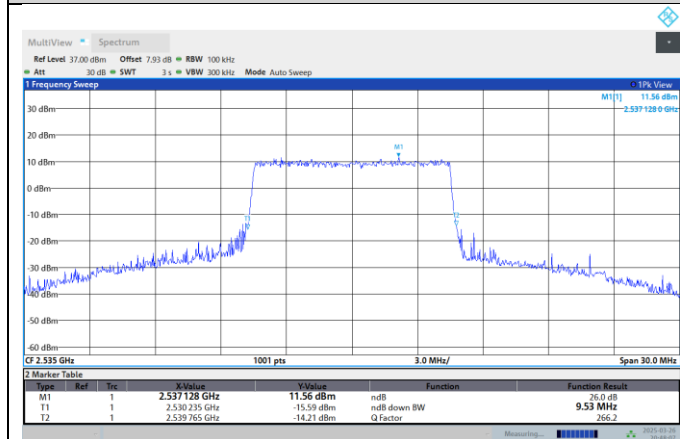
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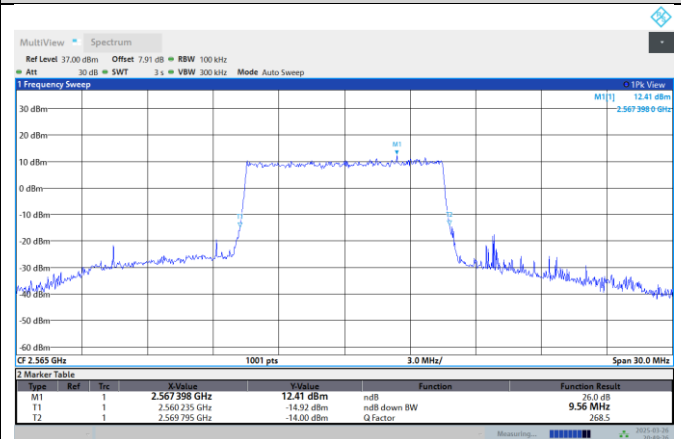
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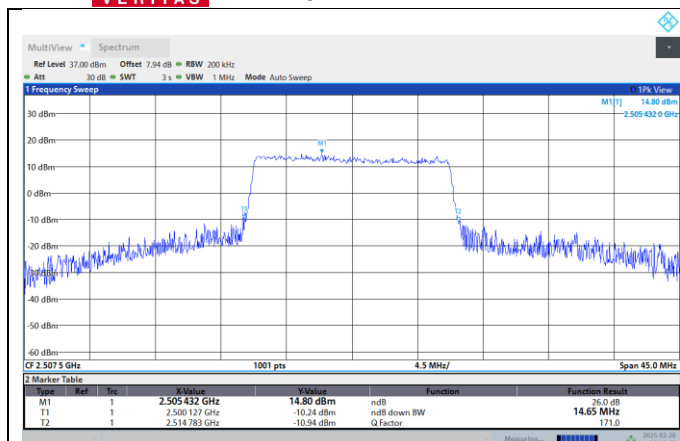
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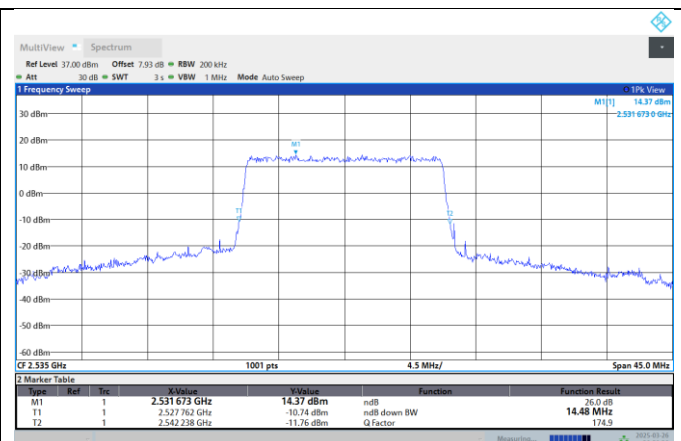
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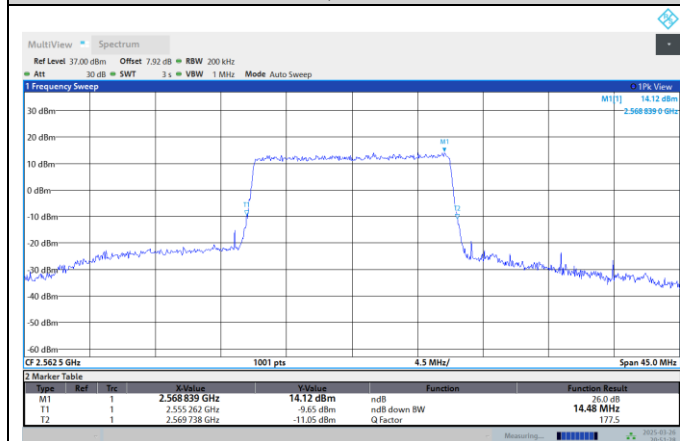
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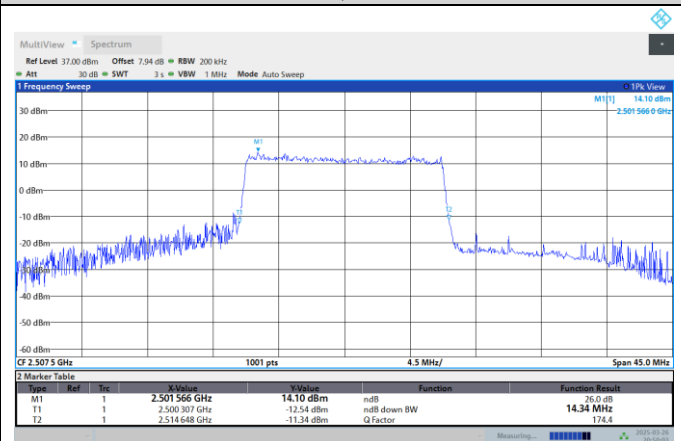
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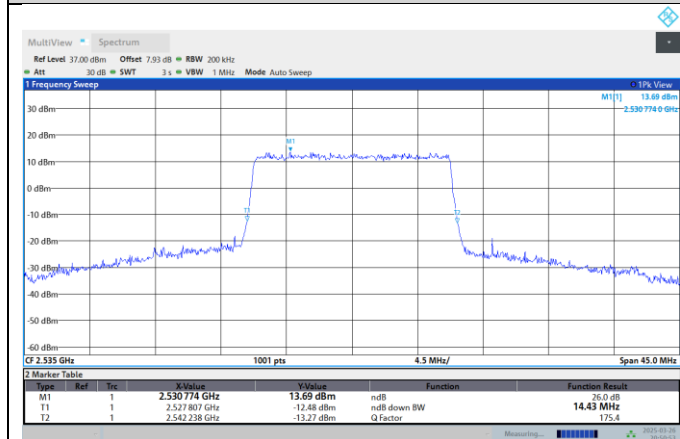
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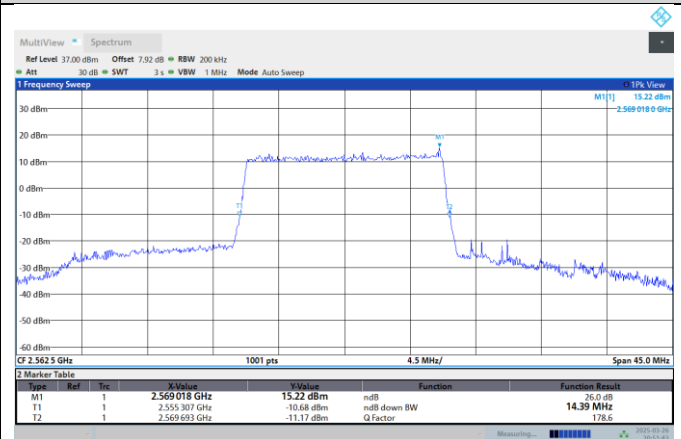
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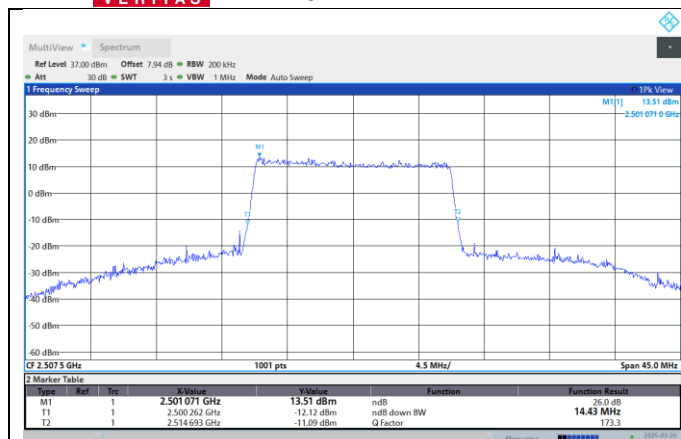
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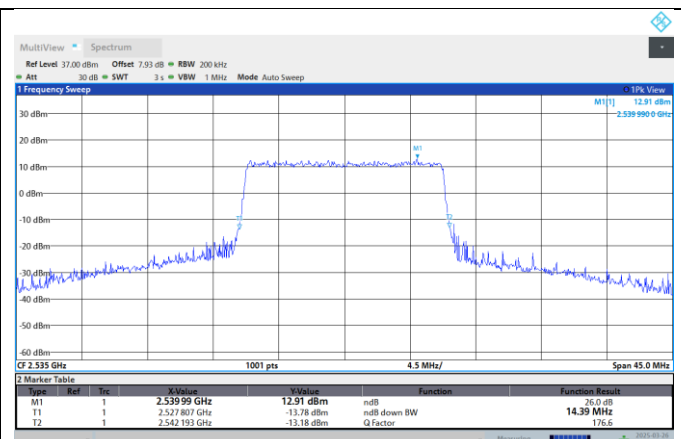
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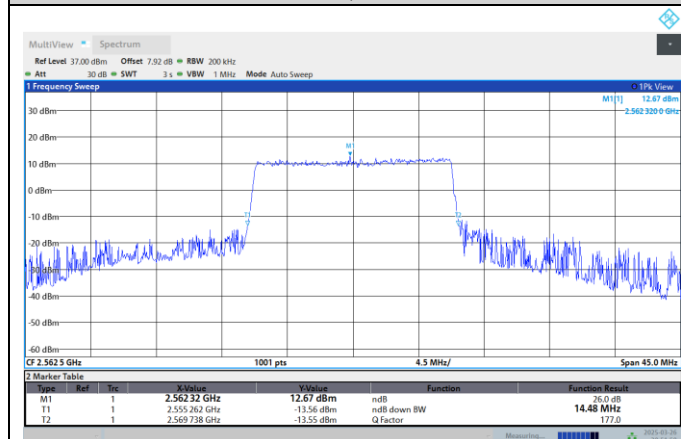
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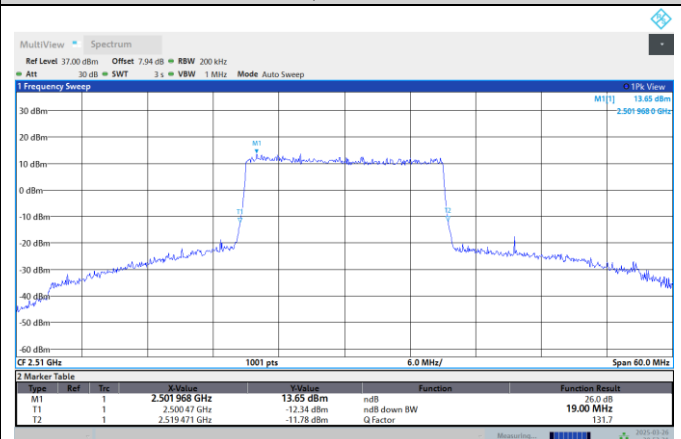
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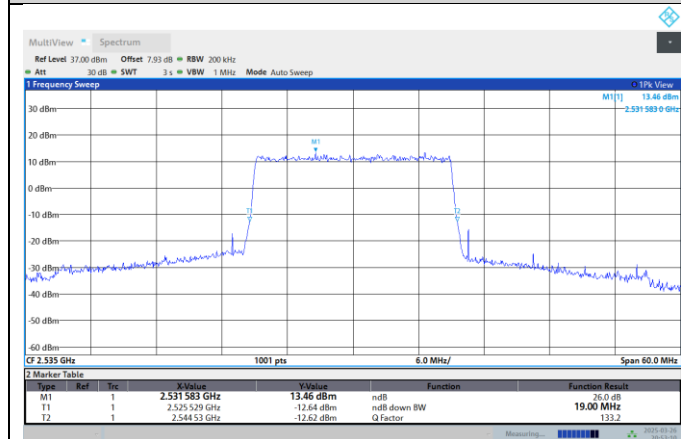
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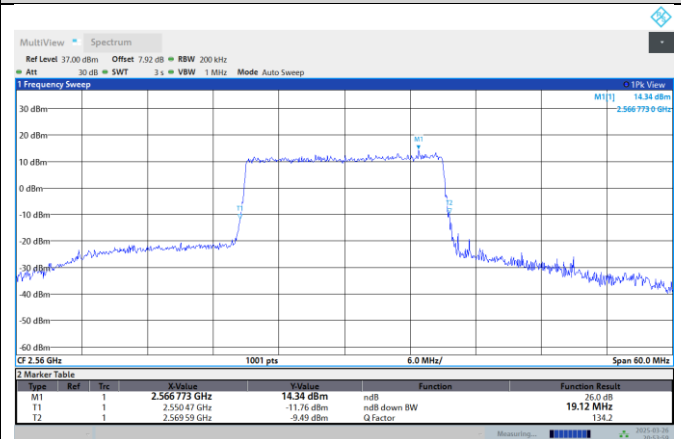
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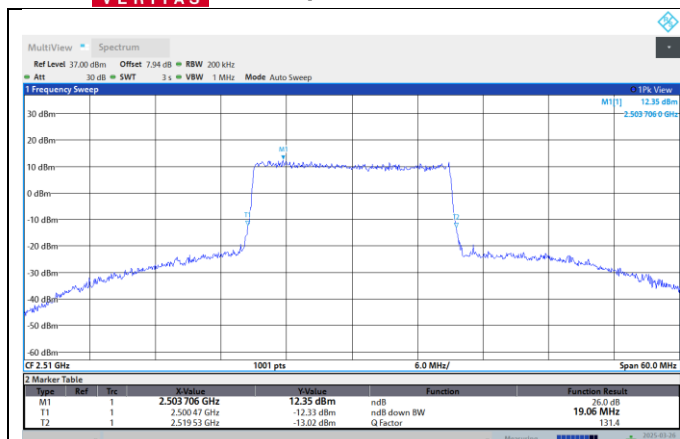
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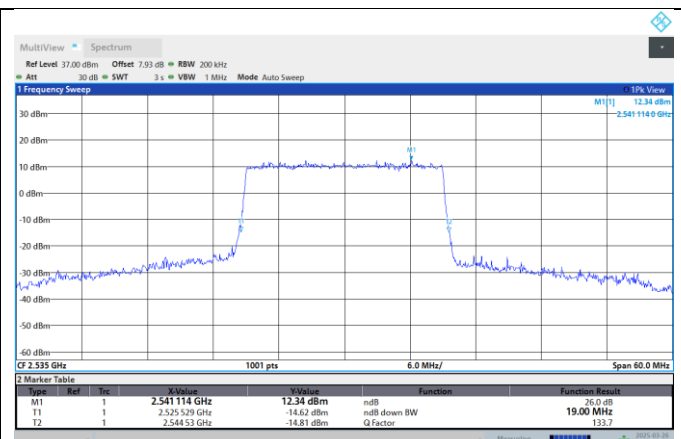
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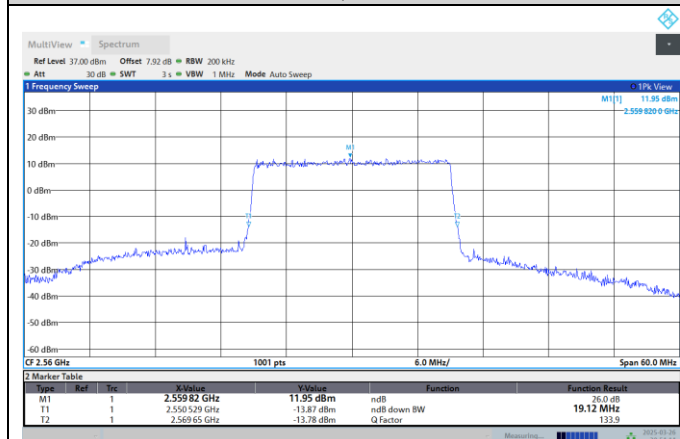
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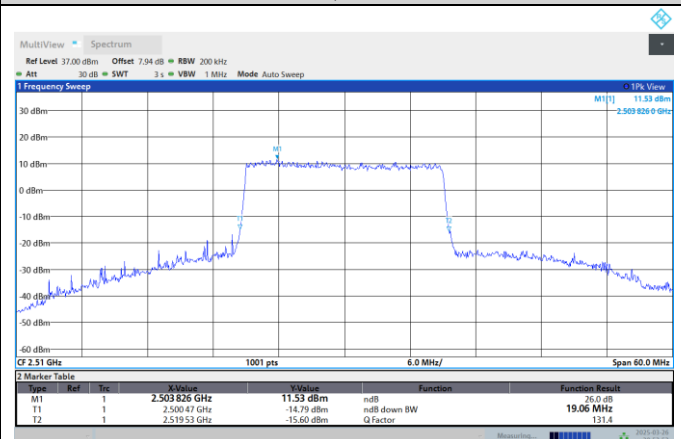
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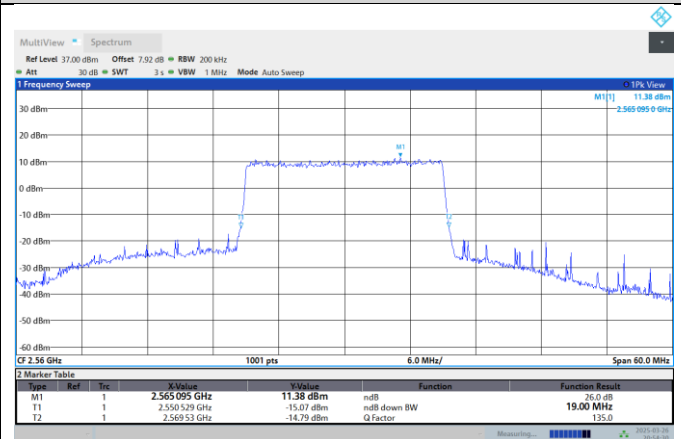
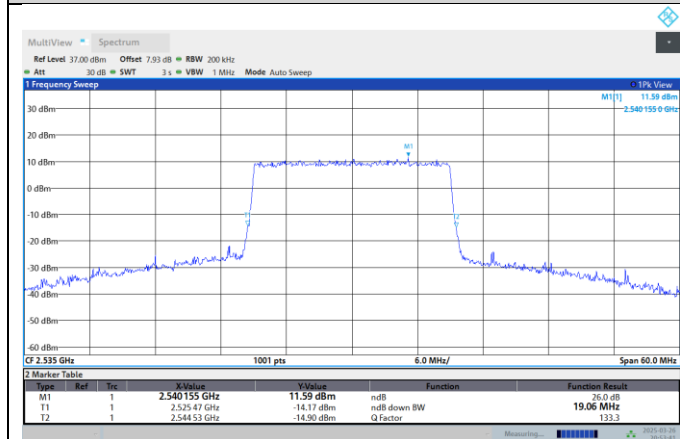
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Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-64QAM-21350-100RB#0



**BAND EDGE****Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	See Graph	PASS
Band7	5MHz	QPSK	20775	25RB#0	See Graph	PASS
Band7	5MHz	QPSK	21425	1RB#24	See Graph	PASS
Band7	5MHz	QPSK	21425	25RB#0	See Graph	PASS
Band7	5MHz	16QAM	20775	1RB#0	See Graph	PASS
Band7	5MHz	16QAM	20775	25RB#0	See Graph	PASS
Band7	5MHz	16QAM	21425	1RB#24	See Graph	PASS
Band7	5MHz	16QAM	21425	25RB#0	See Graph	PASS
Band7	5MHz	64QAM	20775	1RB#0	See Graph	PASS
Band7	5MHz	64QAM	20775	25RB#0	See Graph	PASS
Band7	5MHz	64QAM	21425	1RB#24	See Graph	PASS
Band7	5MHz	64QAM	21425	25RB#0	See Graph	PASS
Band7	10MHz	QPSK	20800	1RB#0	See Graph	PASS
Band7	10MHz	QPSK	20800	50RB#0	See Graph	PASS
Band7	10MHz	QPSK	21400	1RB#49	See Graph	PASS
Band7	10MHz	QPSK	21400	50RB#0	See Graph	PASS
Band7	10MHz	16QAM	20800	1RB#0	See Graph	PASS
Band7	10MHz	16QAM	20800	50RB#0	See Graph	PASS
Band7	10MHz	16QAM	21400	1RB#49	See Graph	PASS
Band7	10MHz	16QAM	21400	50RB#0	See Graph	PASS
Band7	10MHz	64QAM	20800	1RB#0	See Graph	PASS
Band7	10MHz	64QAM	20800	50RB#0	See Graph	PASS
Band7	10MHz	64QAM	21400	1RB#49	See Graph	PASS
Band7	10MHz	64QAM	21400	50RB#0	See Graph	PASS
Band7	15MHz	QPSK	20825	1RB#0	See Graph	PASS
Band7	15MHz	QPSK	20825	75RB#0	See Graph	PASS
Band7	15MHz	QPSK	21375	1RB#74	See Graph	PASS
Band7	15MHz	QPSK	21375	75RB#0	See Graph	PASS
Band7	15MHz	16QAM	20825	1RB#0	See Graph	PASS
Band7	15MHz	16QAM	20825	75RB#0	See Graph	PASS
Band7	15MHz	16QAM	21375	1RB#74	See Graph	PASS
Band7	15MHz	16QAM	21375	75RB#0	See Graph	PASS
Band7	15MHz	64QAM	20825	1RB#0	See Graph	PASS
Band7	15MHz	64QAM	20825	75RB#0	See Graph	PASS
Band7	15MHz	64QAM	21375	1RB#74	See Graph	PASS
Band7	15MHz	64QAM	21375	75RB#0	See Graph	PASS
Band7	20MHz	QPSK	20850	1RB#0	See Graph	PASS
Band7	20MHz	QPSK	20850	100RB#0	See Graph	PASS
Band7	20MHz	QPSK	21350	1RB#99	See Graph	PASS
Band7	20MHz	QPSK	21350	100RB#0	See Graph	PASS
Band7	20MHz	16QAM	20850	1RB#0	See Graph	PASS
Band7	20MHz	16QAM	20850	100RB#0	See Graph	PASS
Band7	20MHz	16QAM	21350	1RB#99	See Graph	PASS
Band7	20MHz	16QAM	21350	100RB#0	See Graph	PASS
Band7	20MHz	64QAM	20850	1RB#0	See Graph	PASS
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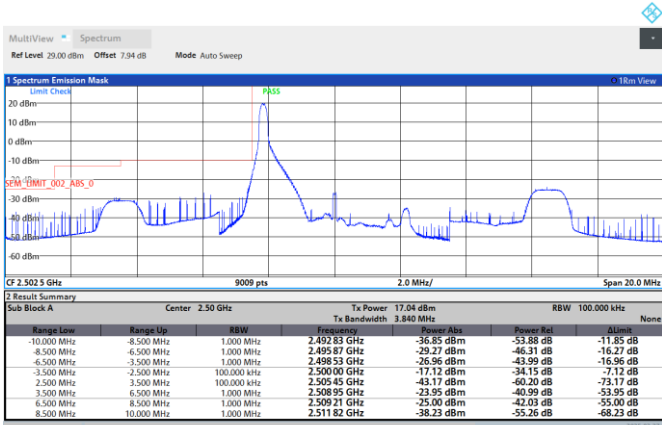
BUREAU VERITAS Test Report No.: PSU-QSU2503210311RF03

Band7	20MHz	64QAM	21350	1RB#99	See Graph	PASS
Band7	20MHz	64QAM	21350	100RB#0	See Graph	PASS

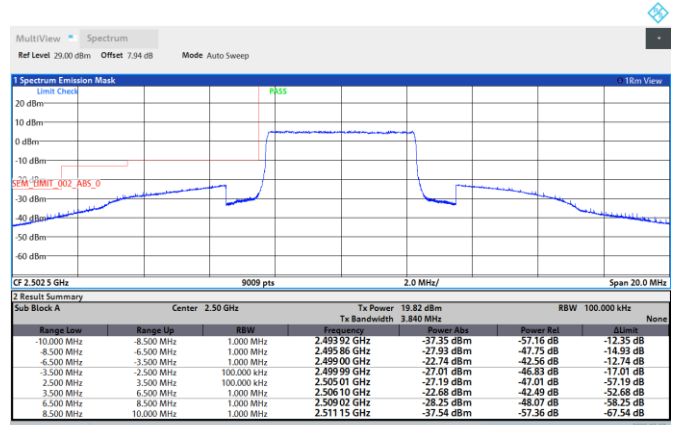


Test Graphs

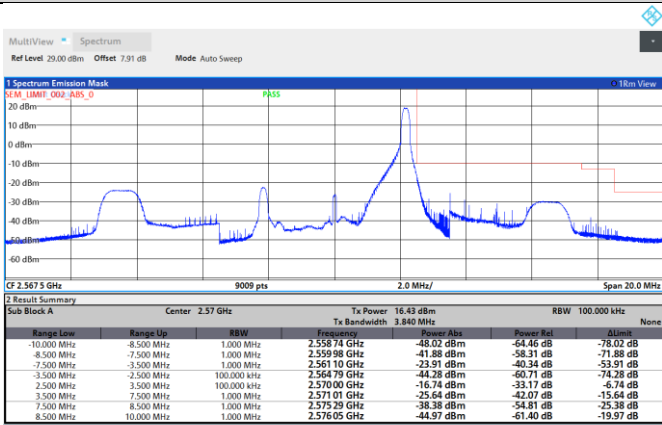
Band7-5MHz-QPSK-20775-1RB#0



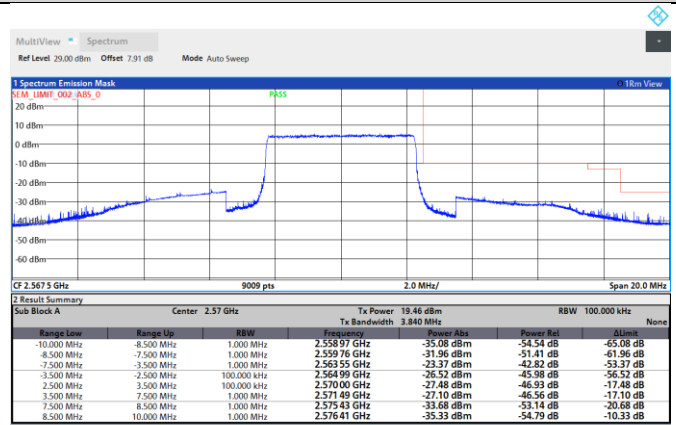
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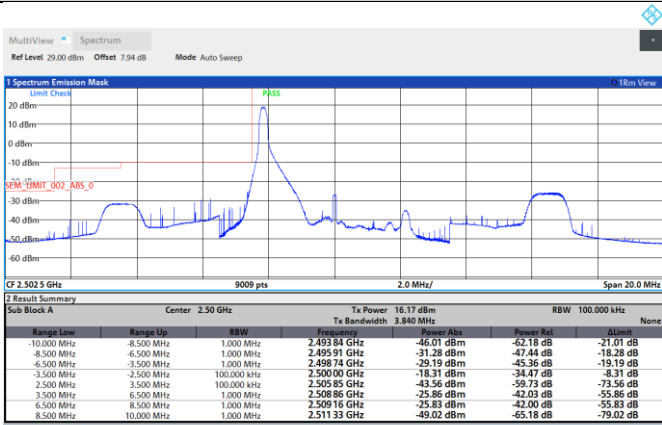
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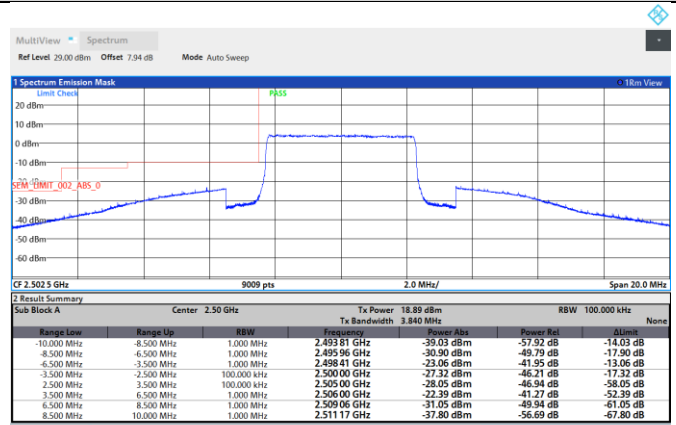
Band7-5MHz-QPSK-21425-25RB#0



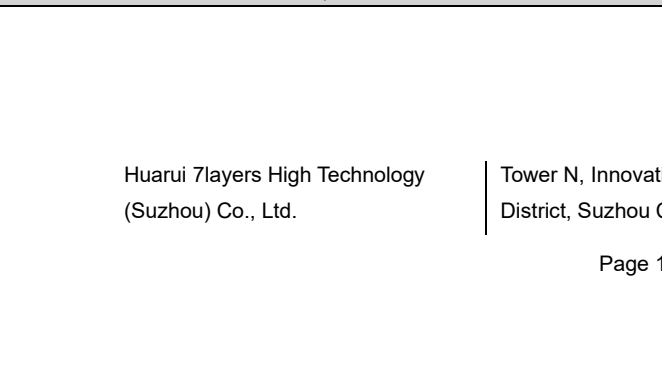
Band7-5MHz-16QAM-20775-1RB#0



Band7-5MHz-16QAM-20775-25RB#0



Band7-5MHz-16QAM-21425-1RB#24



Band7-5MHz-16QAM-21425-25RB#0

