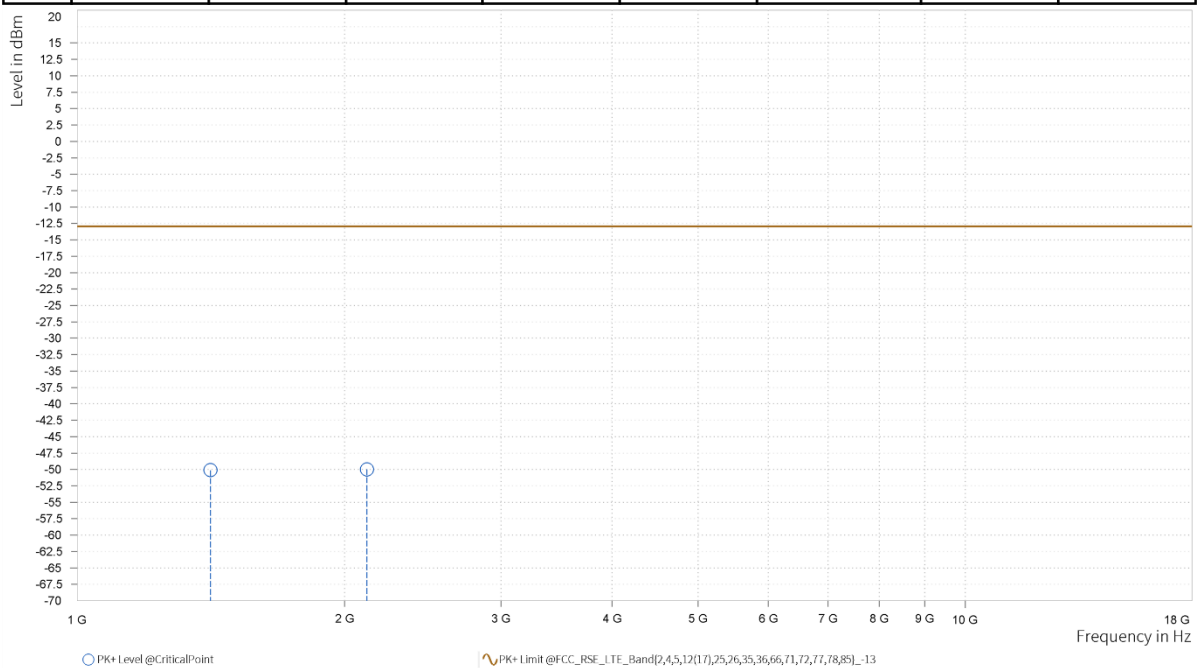




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 23095
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,412.300	-50.09	-13.00	37.09	15.21	V	0.9	2.00
2	2,118.450	-49.97	-13.00	36.97	21.78	V	358.1	1.00

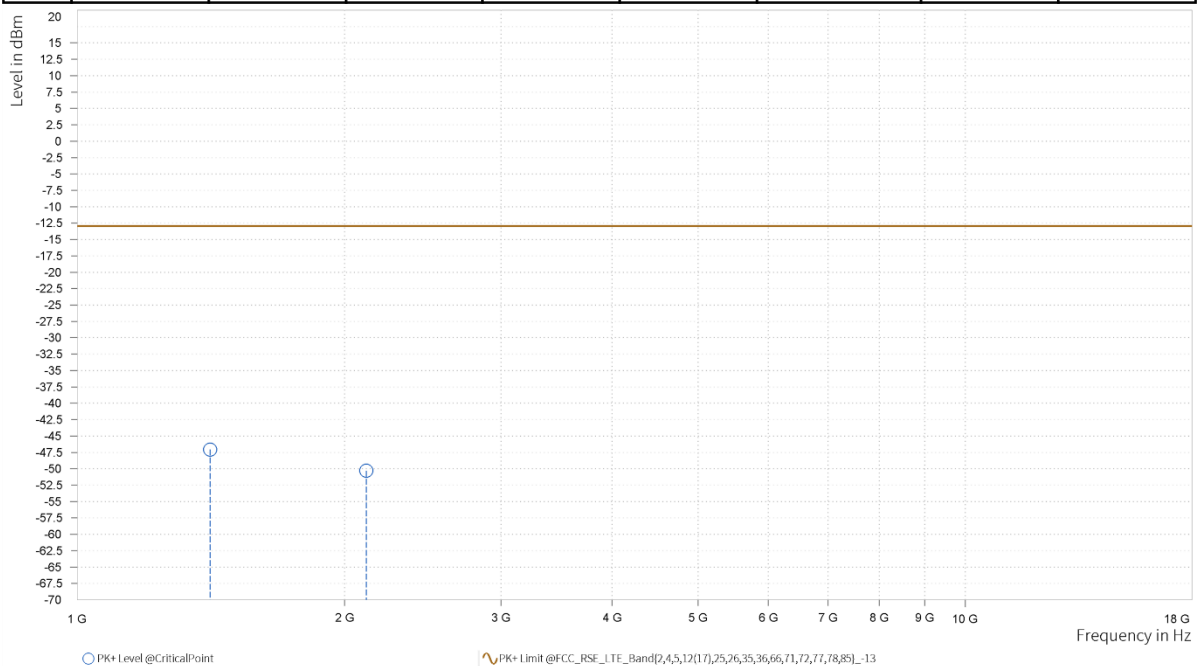




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23095
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,410.500	-47.06	-13.00	34.06	14.24	H	292.4	2.00
2	2,115.750	-50.30	-13.00	37.30	21.98	H	357.5	1.00

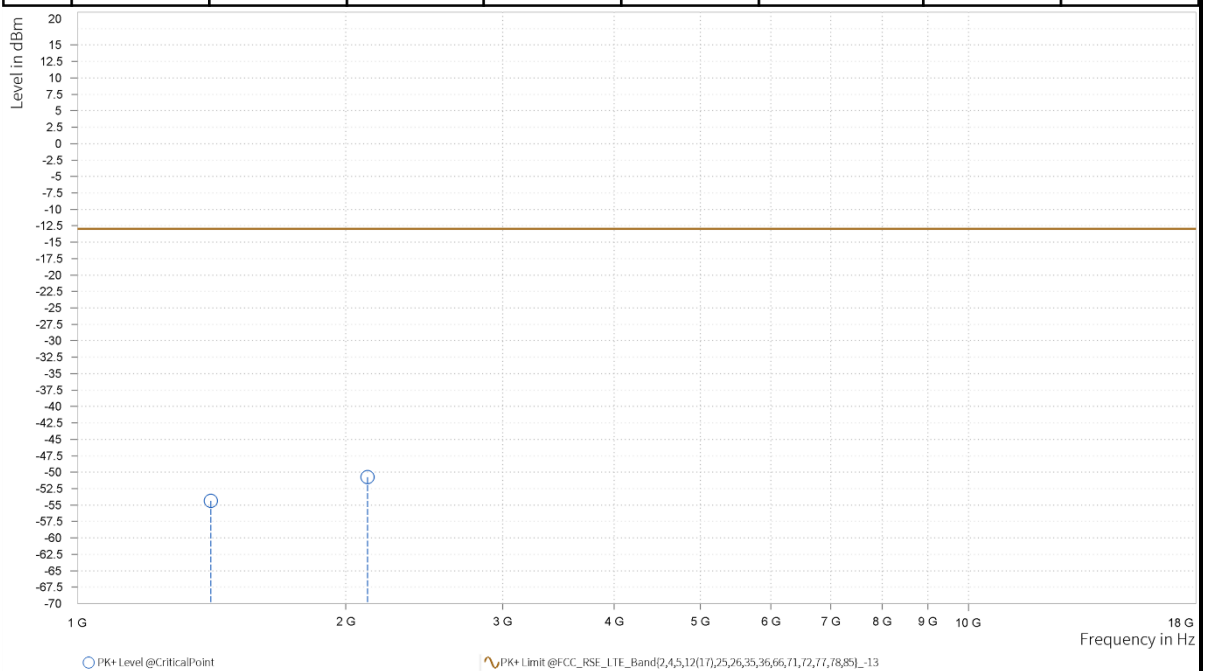




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23095
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,410.500	-54.38	-13.00	41.38	15.59	V	359	2.00
2	2,115.750	-50.75	-13.00	37.75	21.68	V	286.5	2.00

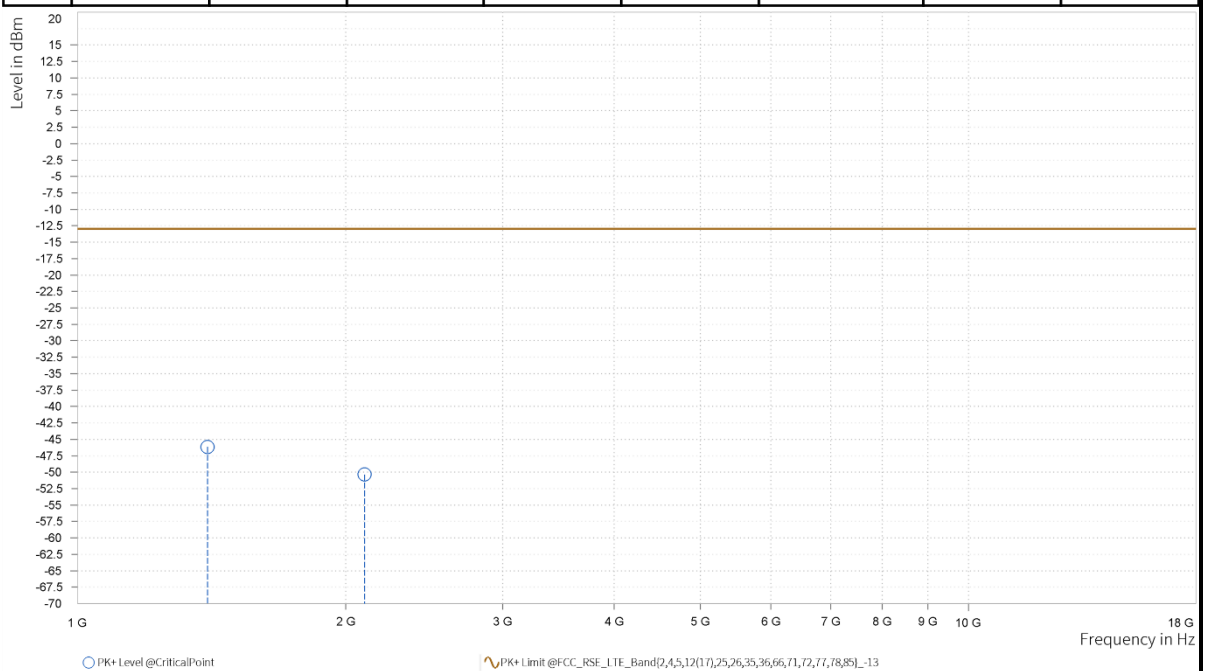




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23060
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,399.000	-46.15	-13.00	33.15	17.03	H	0.9	2.00
2	2,098.500	-50.36	-13.00	37.36	21.58	H	359	2.00

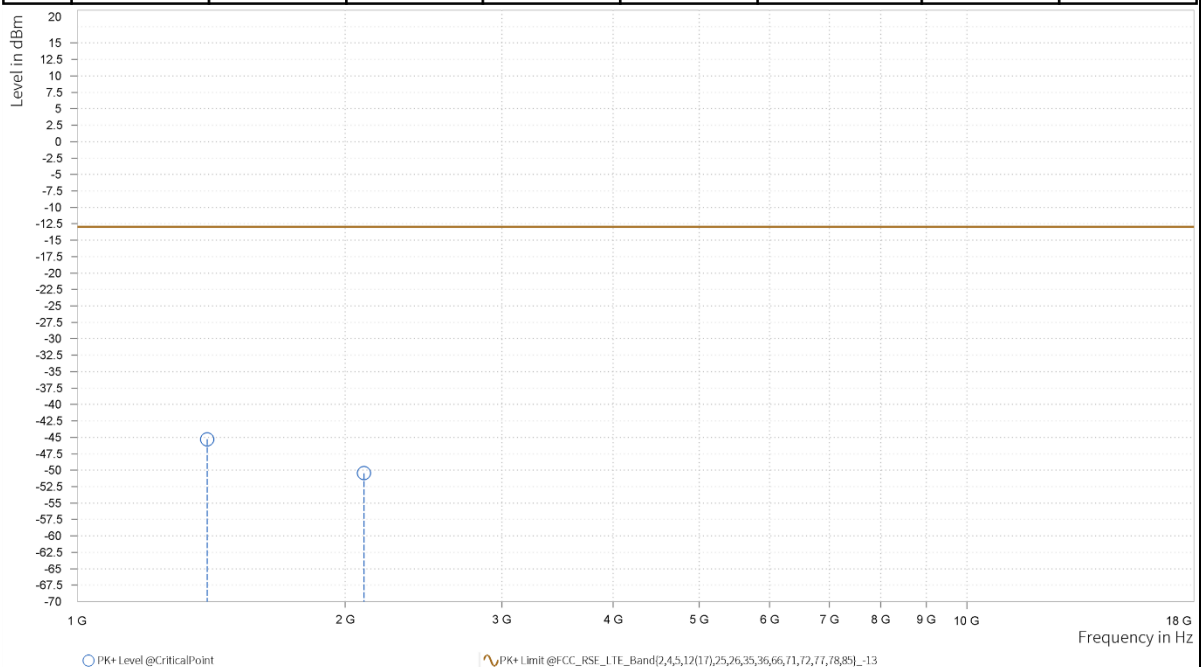




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23060
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,399.000	-45.30	-13.00	32.30	14.38	V	292.4	2.00
2	2,098.500	-50.46	-13.00	37.46	21.48	V	292.4	2.00



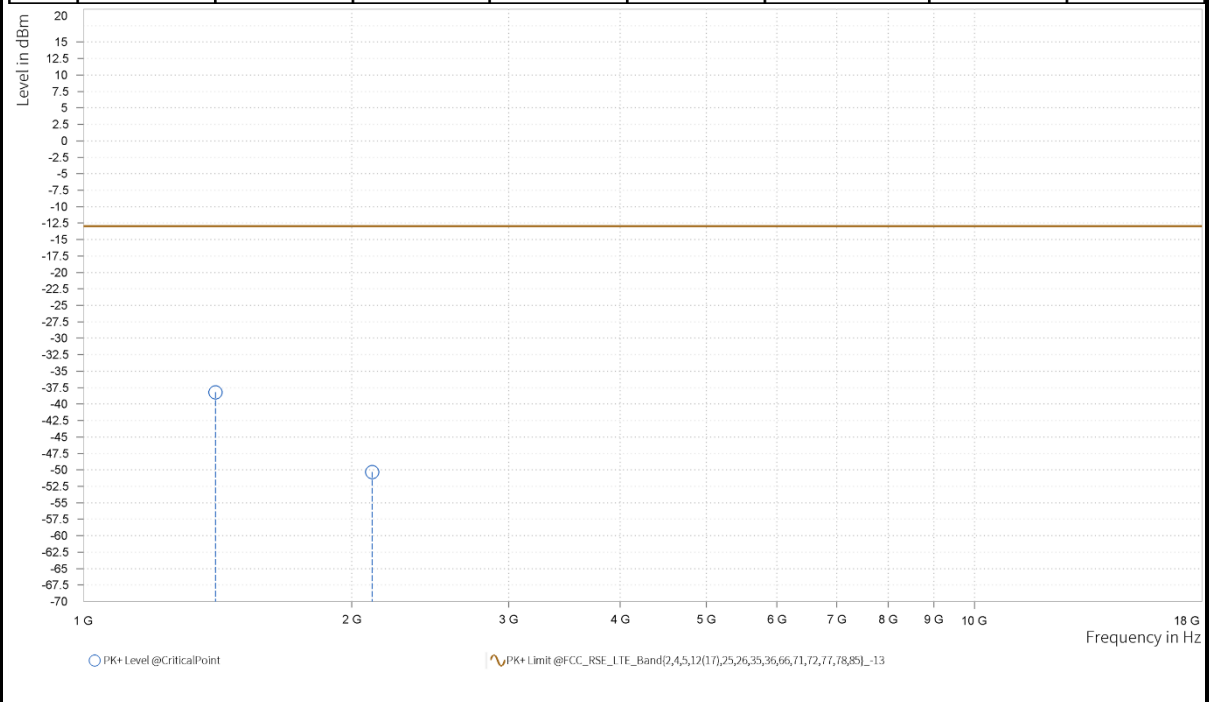


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CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23095
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,406.500	-38.20	-13.00	25.20	16.18	H	1	1.00
2	2,109.000	-50.34	-13.00	37.34	21.73	H	1	1.00

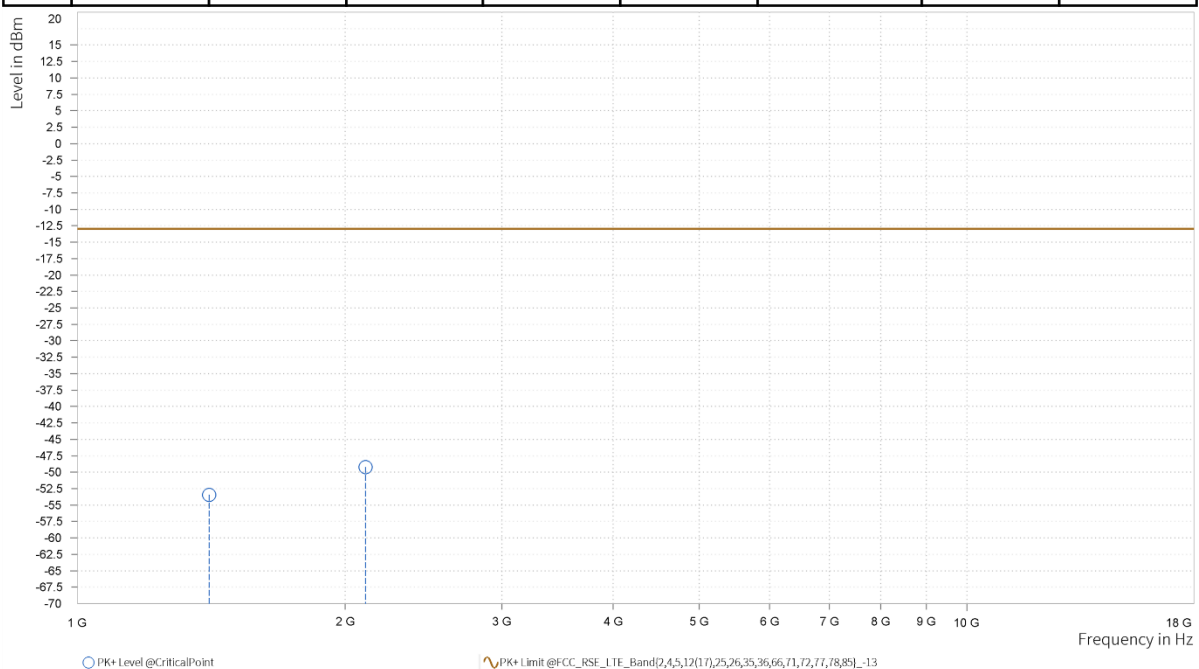




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23095
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,406.000	-53.44	-13.00	40.44	16.19	V	358.2	1.00
2	2,109.000	-49.22	-13.00	36.22	21.51	V	1	1.00

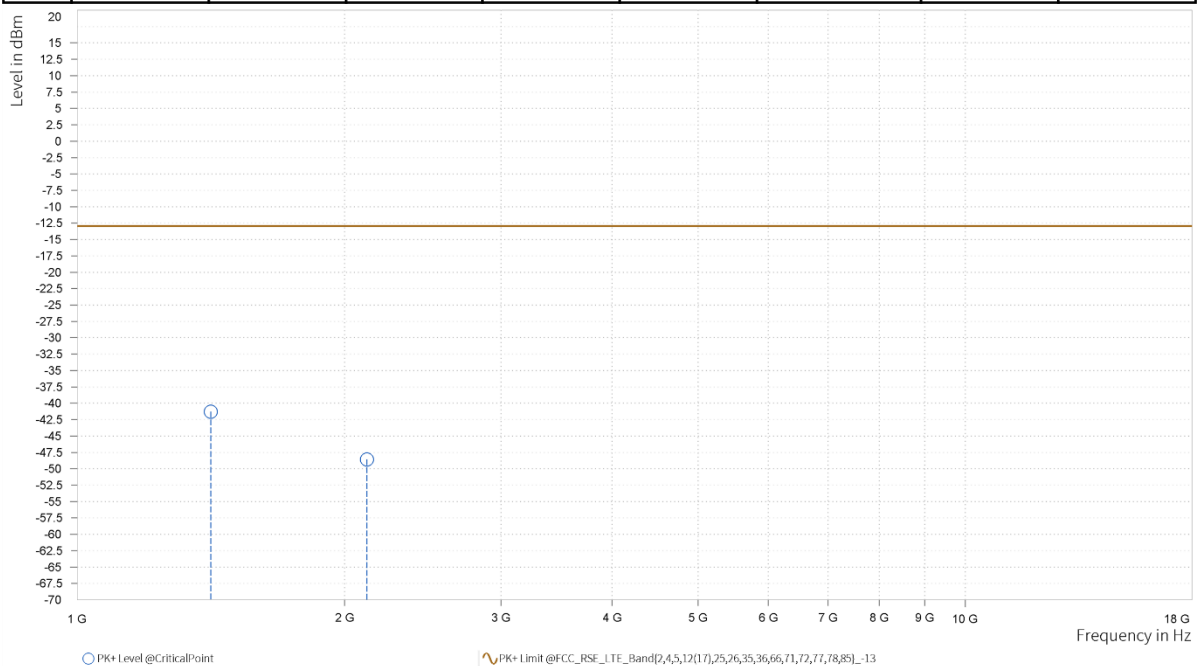




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23130
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,413.000	-41.27	-13.00	28.27	15.22	H	1	1.00
2	2,119.500	-48.57	-13.00	35.57	22.16	H	359	2.00

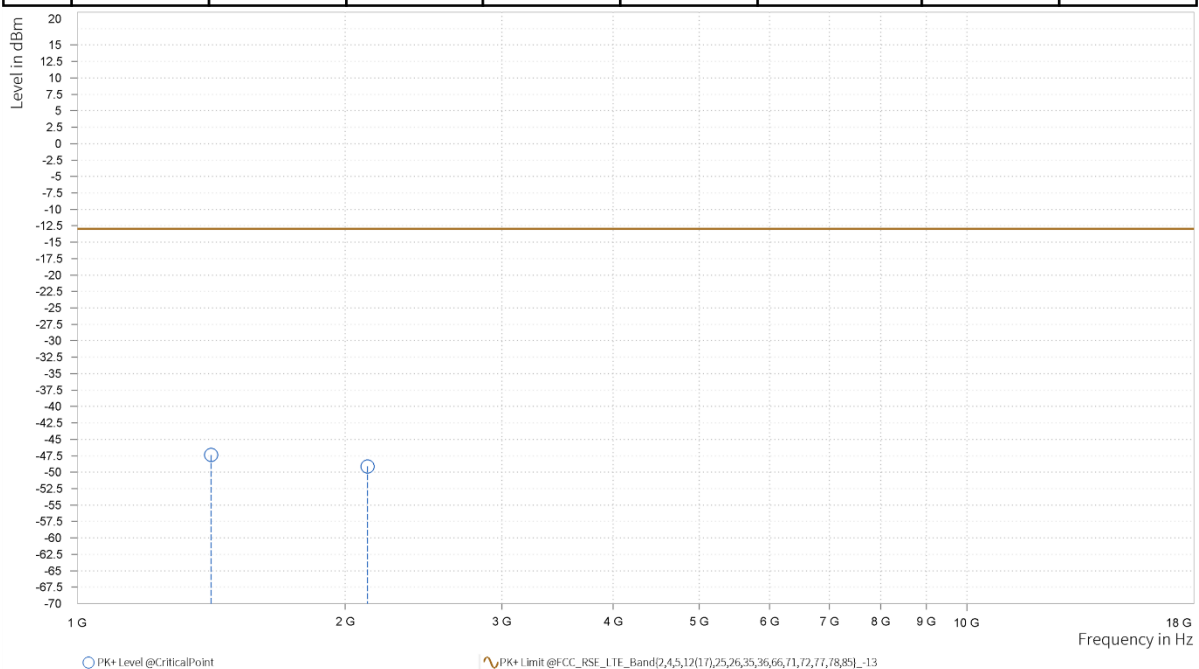




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23130
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,413.000	-47.38	-13.00	34.38	14.13	V	1	1.00
2	2,119.500	-49.13	-13.00	36.13	21.82	V	359	2.00



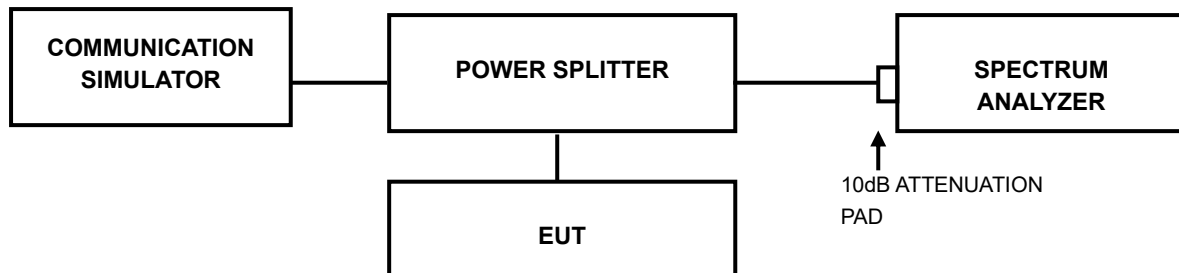


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.



4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

Lab Address:

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

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 Appendix

LTE BAND 4

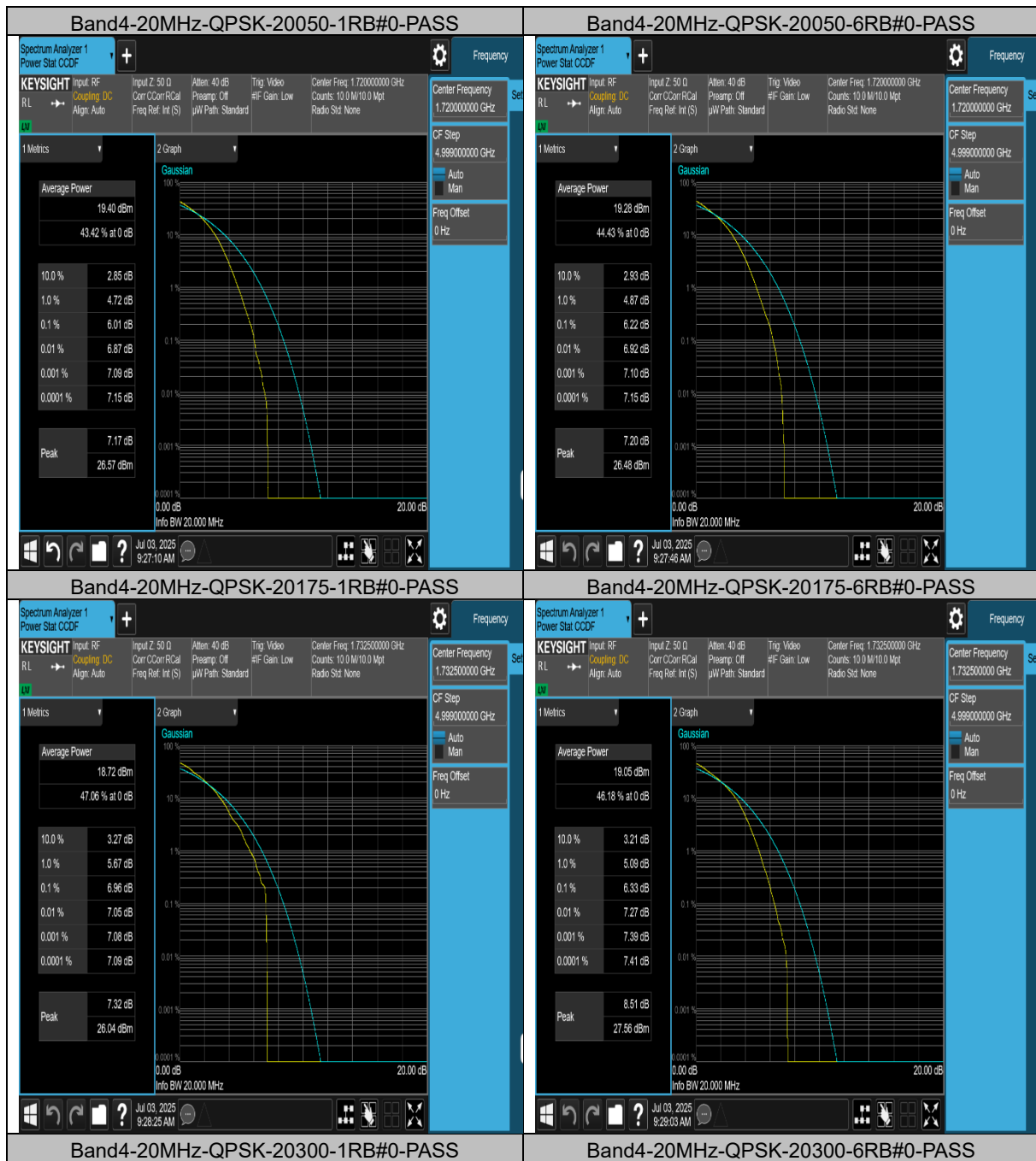
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	1RB#0	6.01	13	PASS
Band4	20MHz	QPSK	20050	6RB#0	6.22	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	6.96	13	PASS
Band4	20MHz	QPSK	20175	6RB#0	6.33	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	7.08	13	PASS
Band4	20MHz	QPSK	20300	6RB#0	6.44	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	6.66	13	PASS
Band4	20MHz	16QAM	20050	6RB#0	6.27	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	6.92	13	PASS
Band4	20MHz	16QAM	20175	6RB#0	6.84	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	6.98	13	PASS
Band4	20MHz	16QAM	20300	6RB#0	6.51	13	PASS

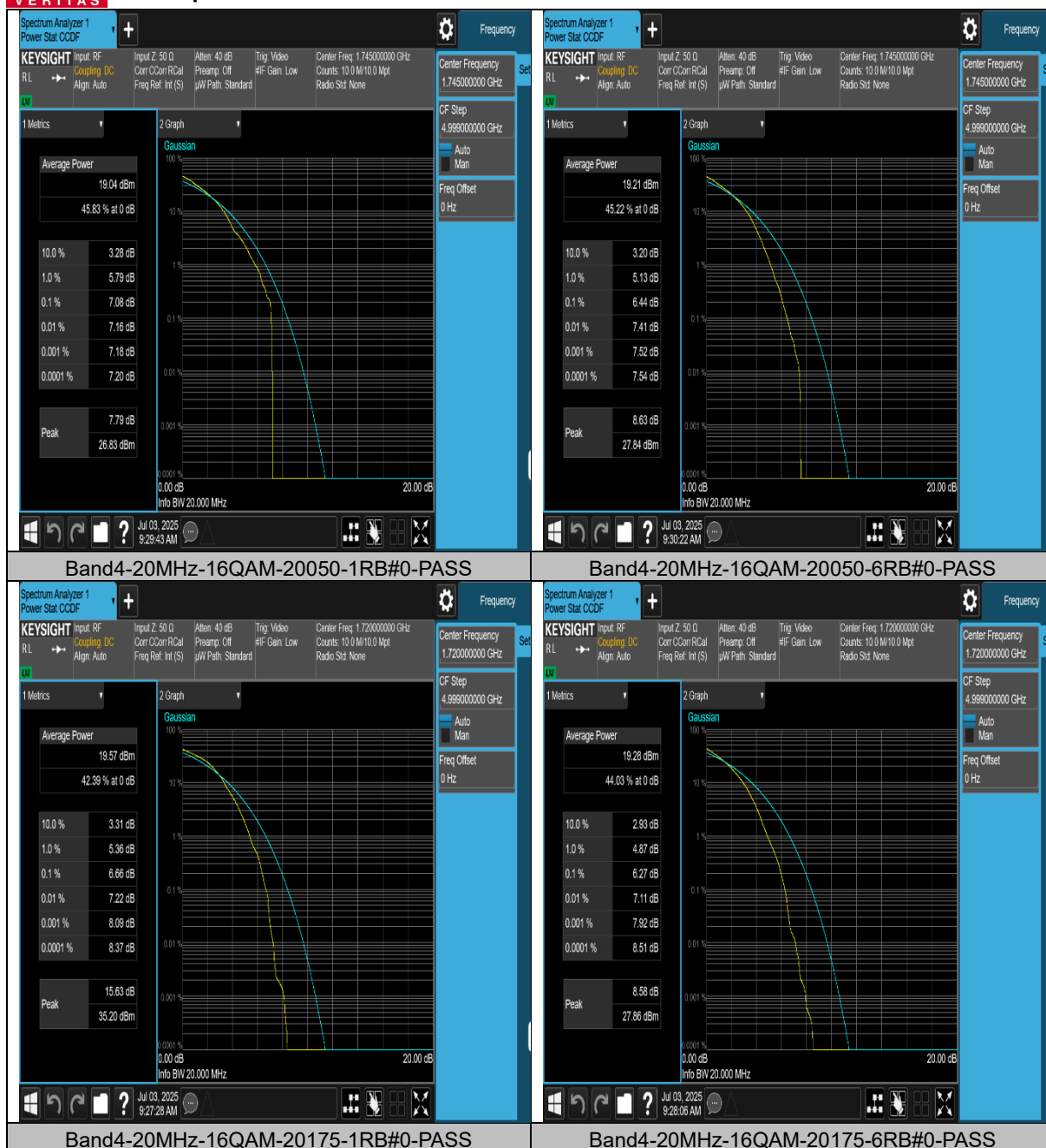


Test Graphs



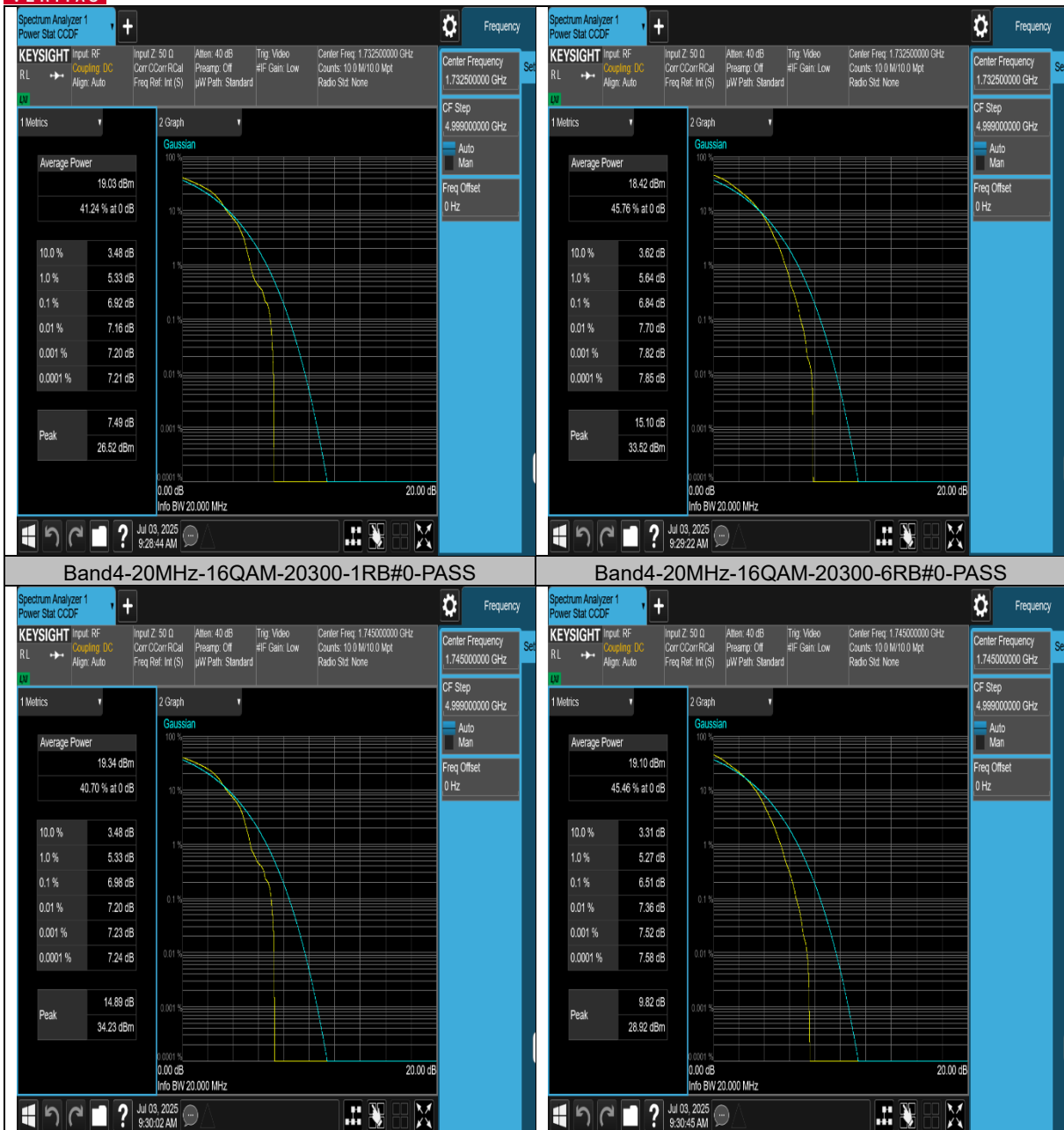


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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

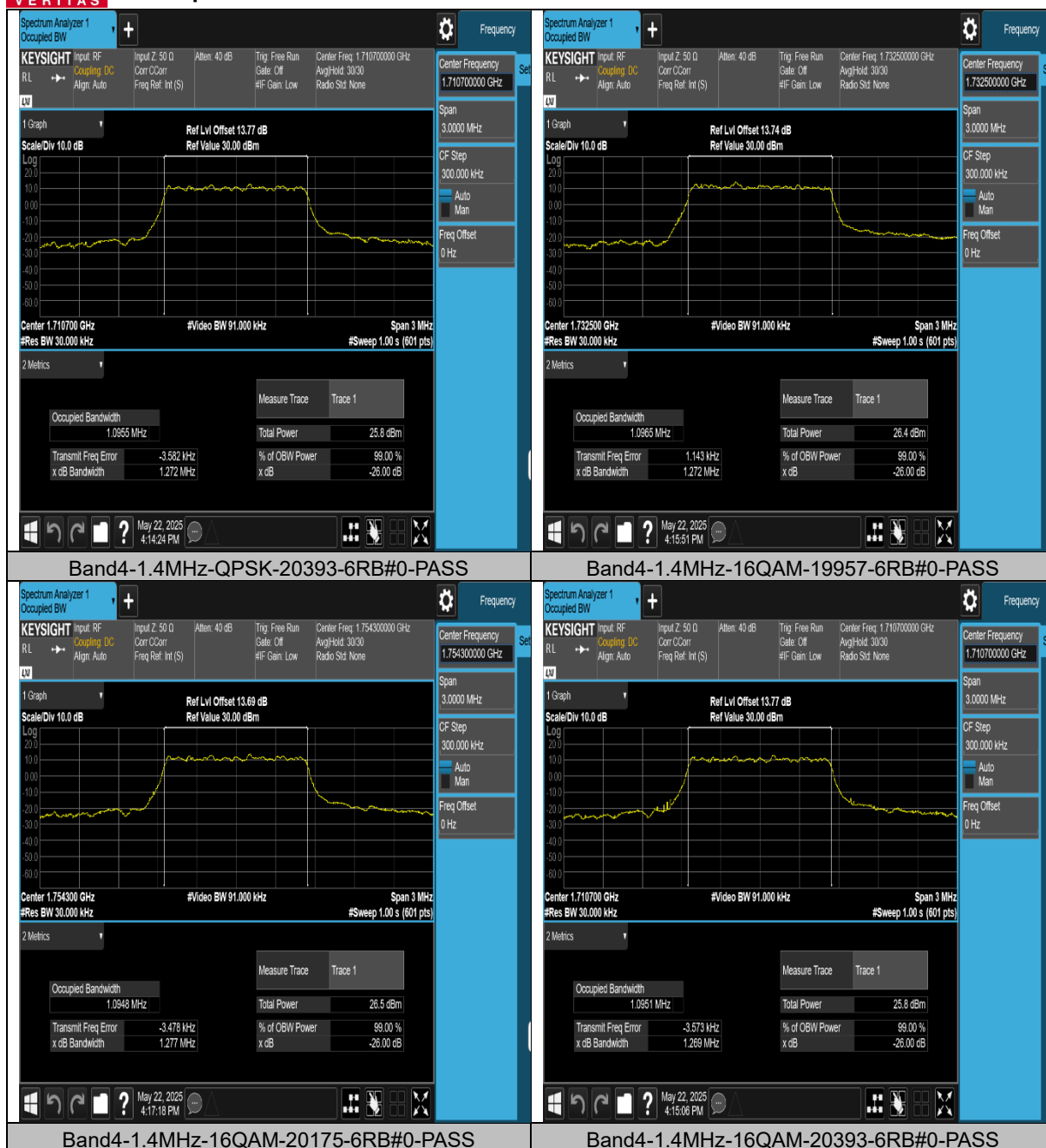
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0955	1.272	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0965	1.272	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0948	1.277	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0951	1.269	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0955	1.271	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0952	1.297	PASS
Band4	3MHz	QPSK	19965	6RB#0	1.0887	1.278	PASS
Band4	3MHz	QPSK	20175	6RB#0	1.0919	1.244	PASS
Band4	3MHz	QPSK	20385	6RB#0	1.0914	1.279	PASS
Band4	3MHz	16QAM	19965	6RB#0	1.0944	1.286	PASS
Band4	3MHz	16QAM	20175	6RB#0	1.0927	1.277	PASS
Band4	3MHz	16QAM	20385	6RB#0	1.0880	1.288	PASS
Band4	5MHz	QPSK	19975	6RB#0	1.0802	1.303	PASS
Band4	5MHz	QPSK	20175	6RB#0	1.0938	1.274	PASS
Band4	5MHz	QPSK	20375	6RB#0	1.0898	1.282	PASS
Band4	5MHz	16QAM	19975	6RB#0	1.0876	1.243	PASS
Band4	5MHz	16QAM	20175	6RB#0	1.0861	1.245	PASS
Band4	5MHz	16QAM	20375	6RB#0	1.0926	1.282	PASS
Band4	10MHz	QPSK	20000	6RB#0	1.1214	1.311	PASS
Band4	10MHz	QPSK	20175	6RB#0	1.1232	1.305	PASS
Band4	10MHz	QPSK	20350	6RB#0	1.1234	1.303	PASS
Band4	10MHz	16QAM	20000	6RB#0	1.1195	1.319	PASS
Band4	10MHz	16QAM	20175	6RB#0	1.1152	1.294	PASS
Band4	10MHz	16QAM	20350	6RB#0	1.1158	1.296	PASS
Band4	15MHz	QPSK	20025	6RB#0	1.1286	1.335	PASS
Band4	15MHz	QPSK	20175	6RB#0	1.1318	1.336	PASS
Band4	15MHz	QPSK	20325	6RB#0	1.1285	1.341	PASS
Band4	15MHz	16QAM	20025	6RB#0	1.1304	1.337	PASS
Band4	15MHz	16QAM	20175	6RB#0	1.1275	1.328	PASS
Band4	15MHz	16QAM	20325	6RB#0	1.1125	1.349	PASS
Band4	20MHz	QPSK	20050	6RB#0	1.1751	1.339	PASS
Band4	20MHz	QPSK	20175	6RB#0	1.1836	1.352	PASS
Band4	20MHz	QPSK	20300	6RB#0	1.1793	1.354	PASS
Band4	20MHz	16QAM	20050	6RB#0	1.1732	1.350	PASS
Band4	20MHz	16QAM	20175	6RB#0	1.1826	1.359	PASS
Band4	20MHz	16QAM	20300	6RB#0	1.1725	1.354	PASS

Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0-PASS	Band4-1.4MHz-QPSK-20175-6RB#0-PASS
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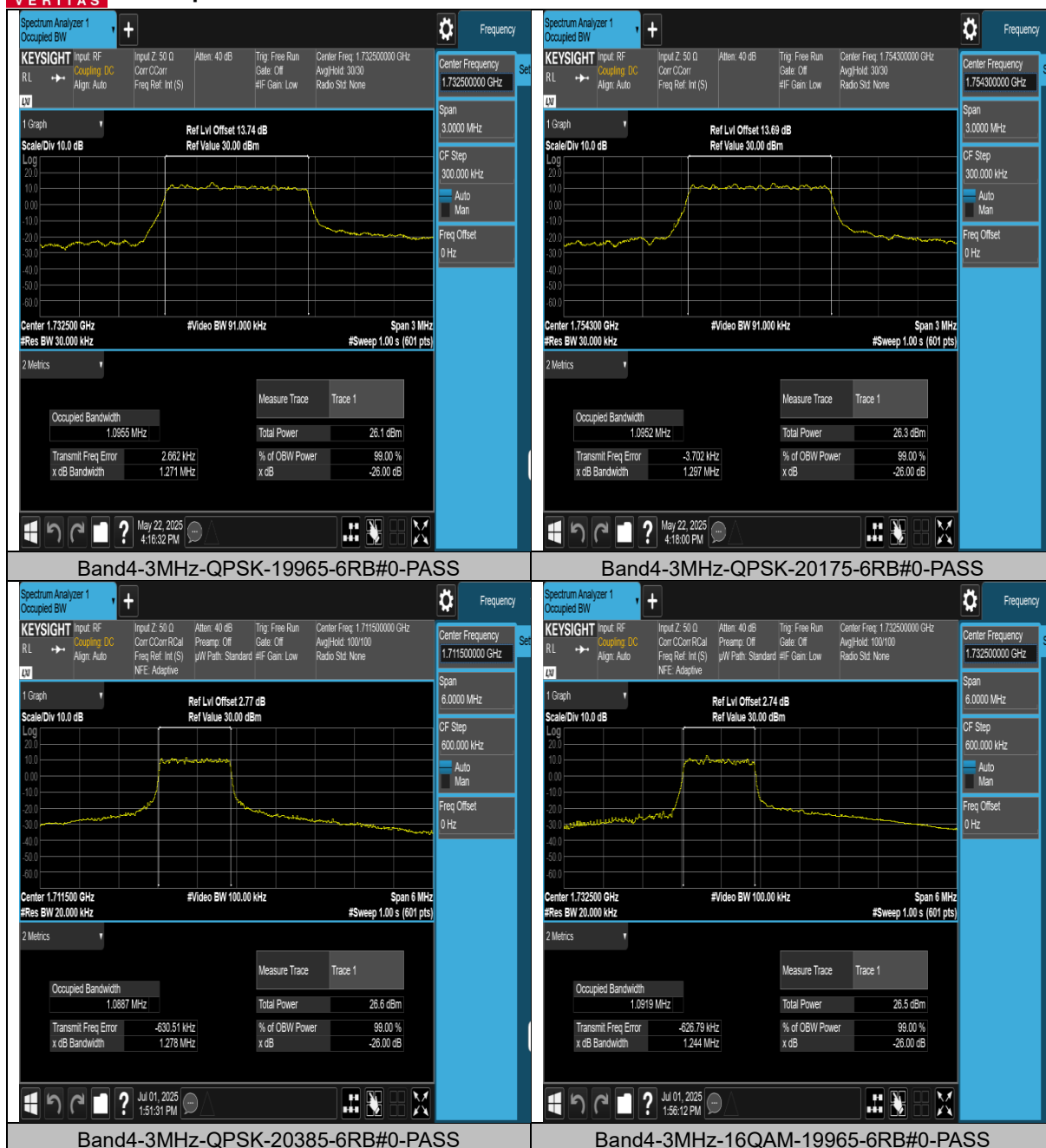


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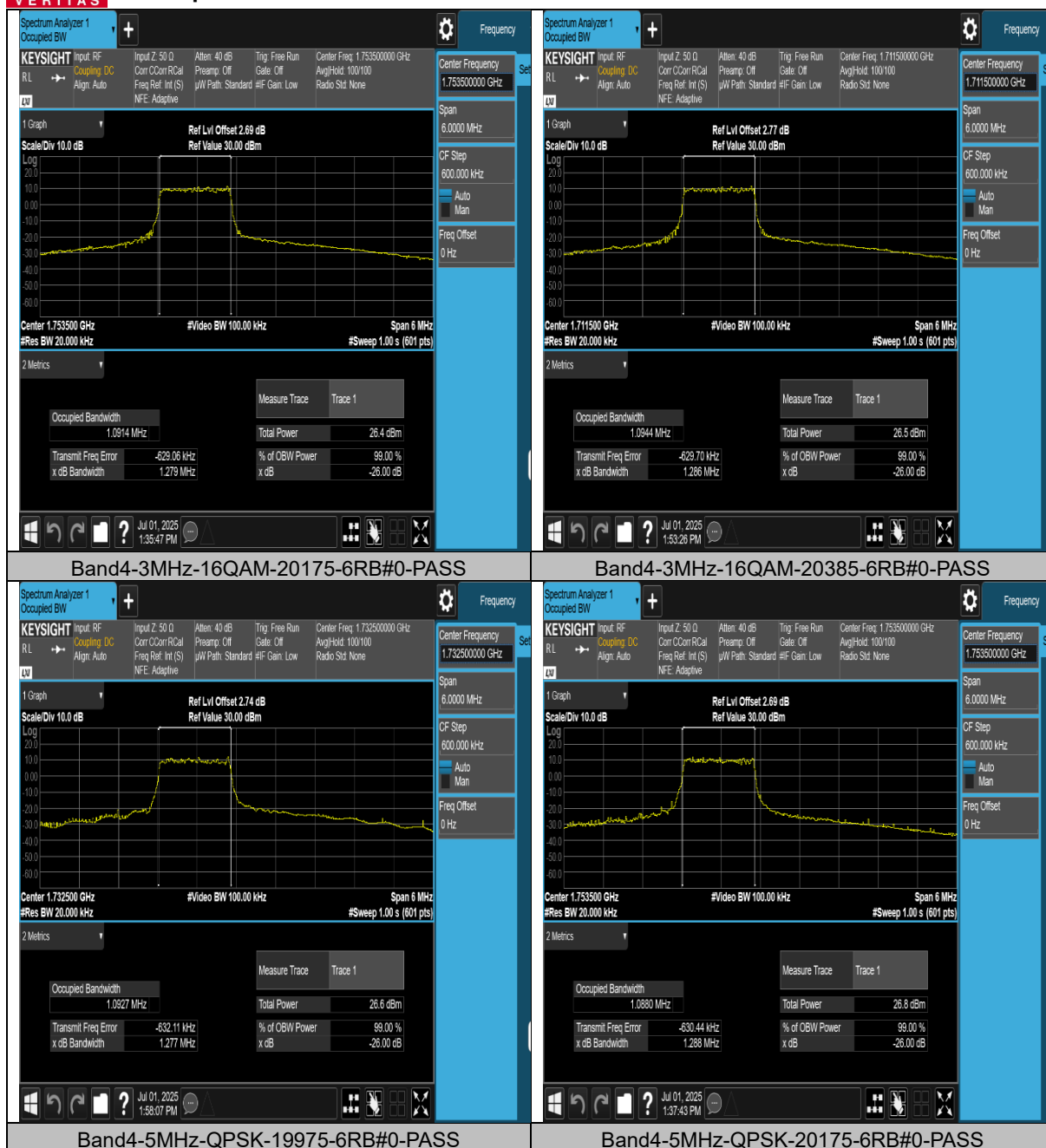


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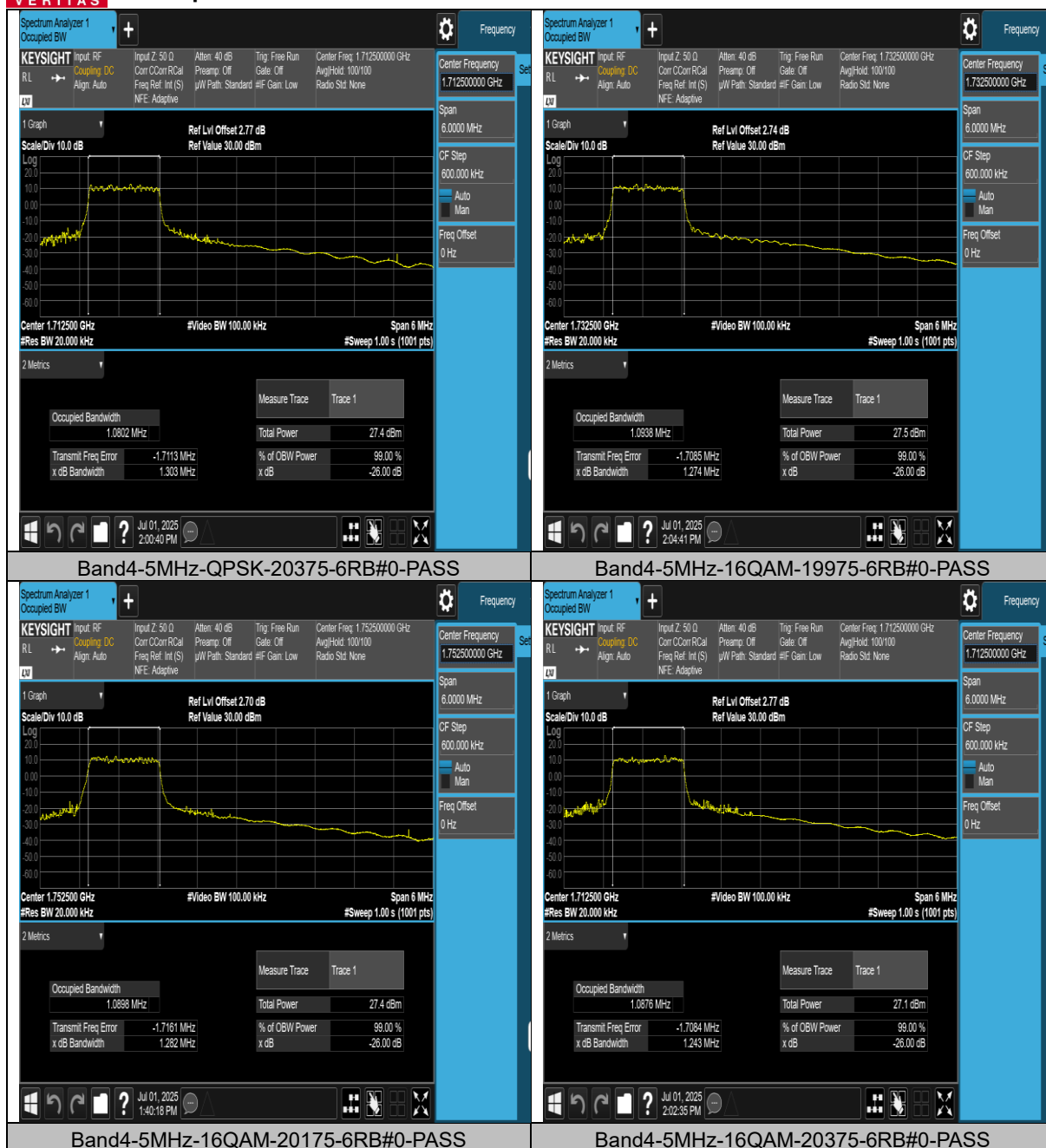


BUREAU VERITAS Test Report No.: PSU-QSU2505080113RF03



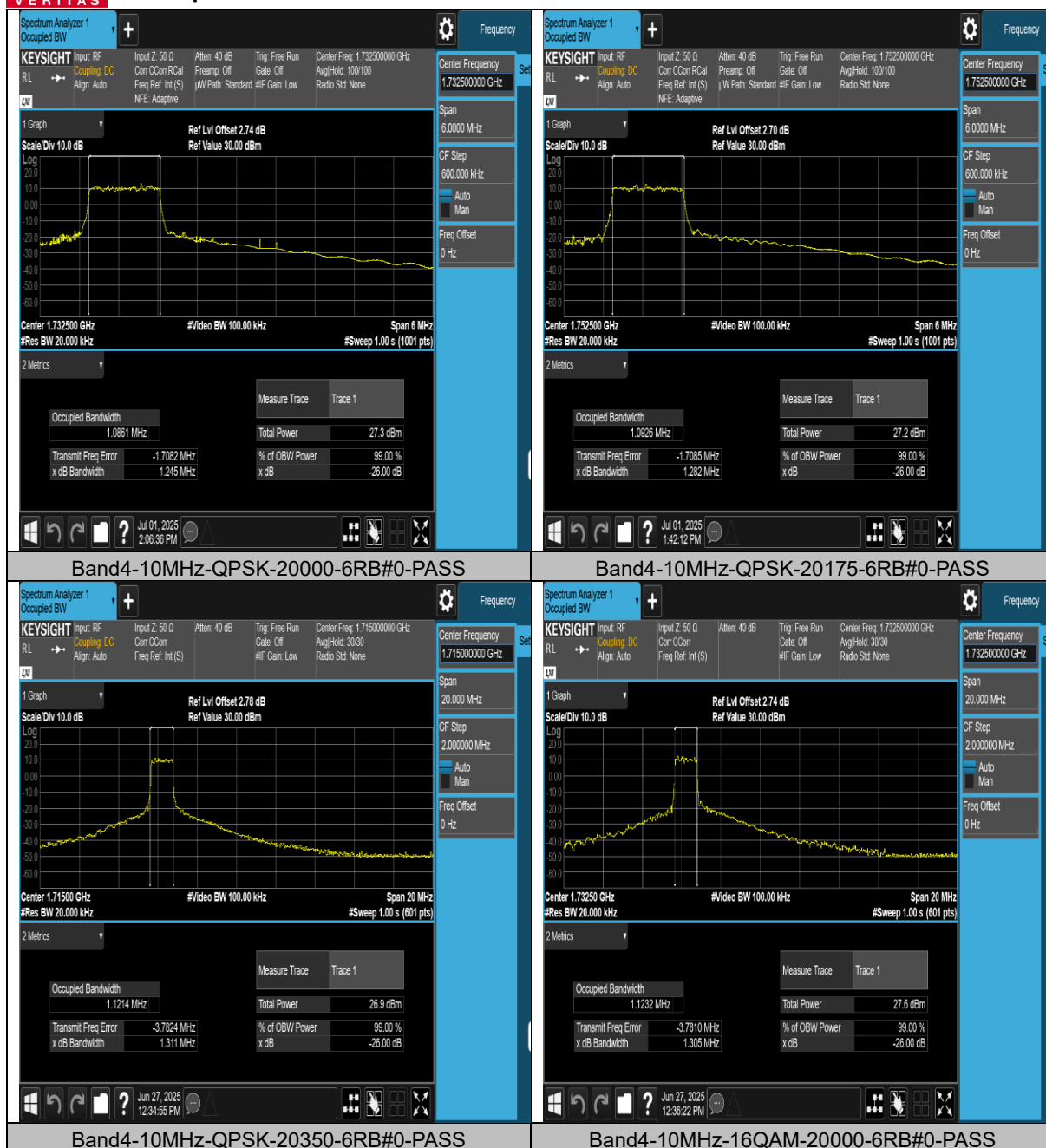


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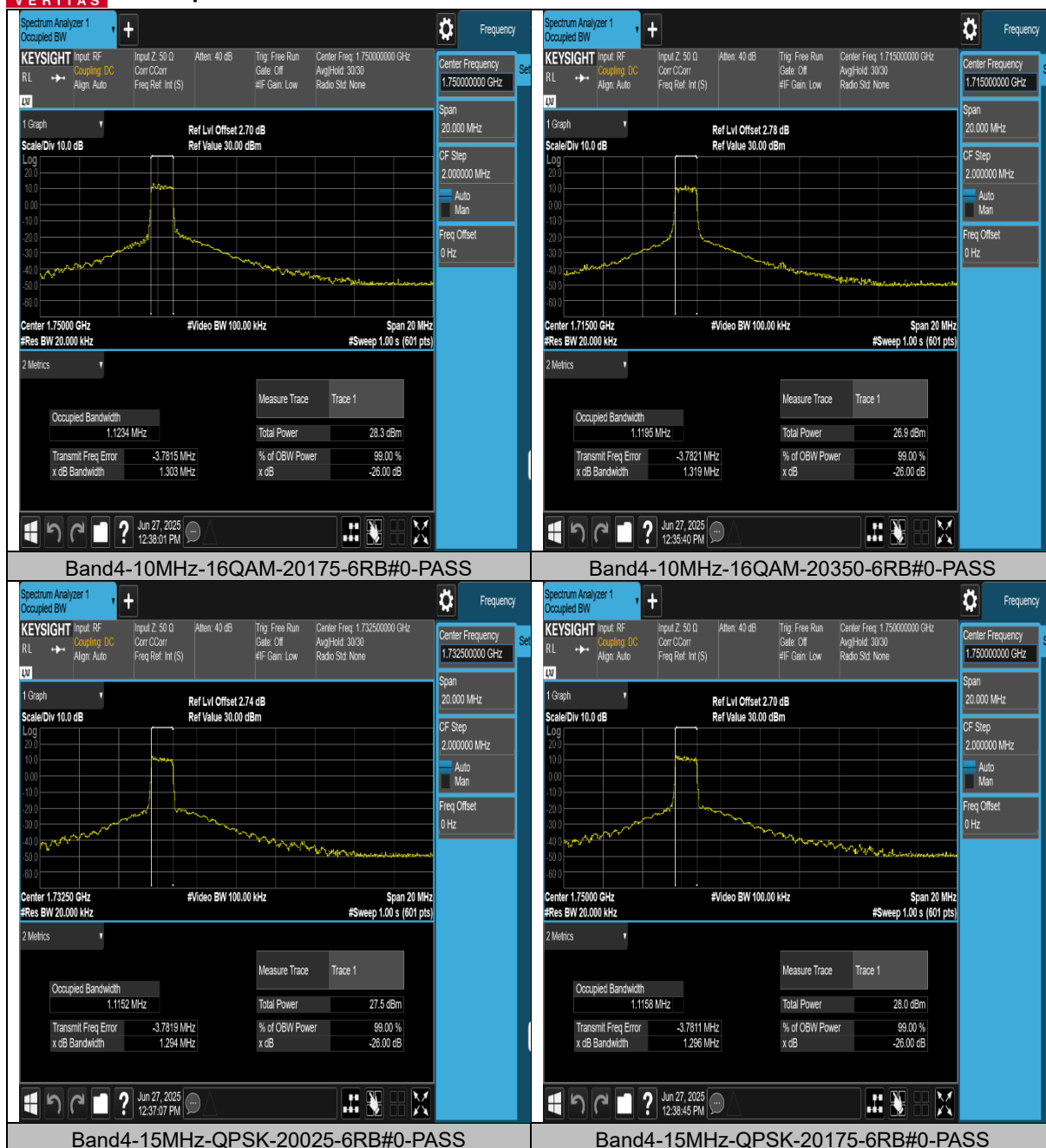


BUREAU VERITAS Test Report No.: PSU-QSU2505080113RF03





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BUREAU VERITAS Test Report No.: PSU-QSU2505080113RF03

