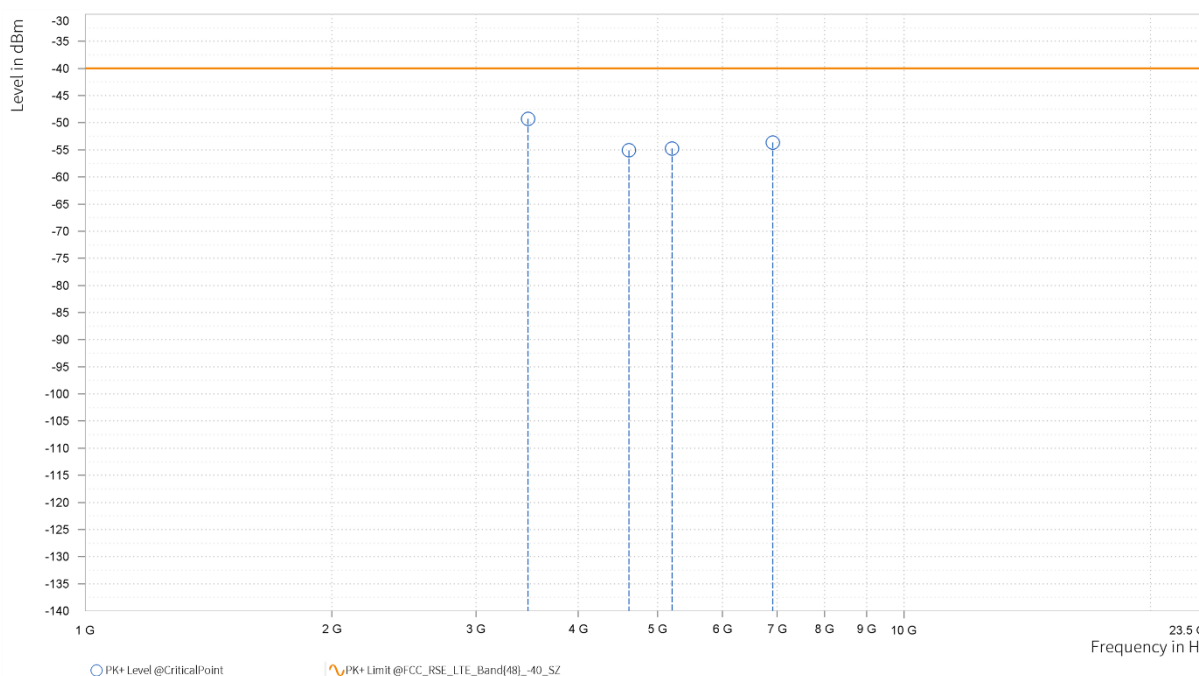


Test Report No.: RF260714B008

CHANNEL BANDWIDTH	20M+10M	MODE	TX channel 27710
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]
3	3,472.000	-49.27	-40.00	9.27	22.64	H	101.9	1.00
5	4,611.000	-55.10	-40.00	15.10	18.65	H	300.4	1.00
5	5,208.000	-54.75	-40.00	14.75	20.59	H	0.9	2.00
5	6,916.500	-53.66	-40.00	13.66	23.09	H	359.1	1.00



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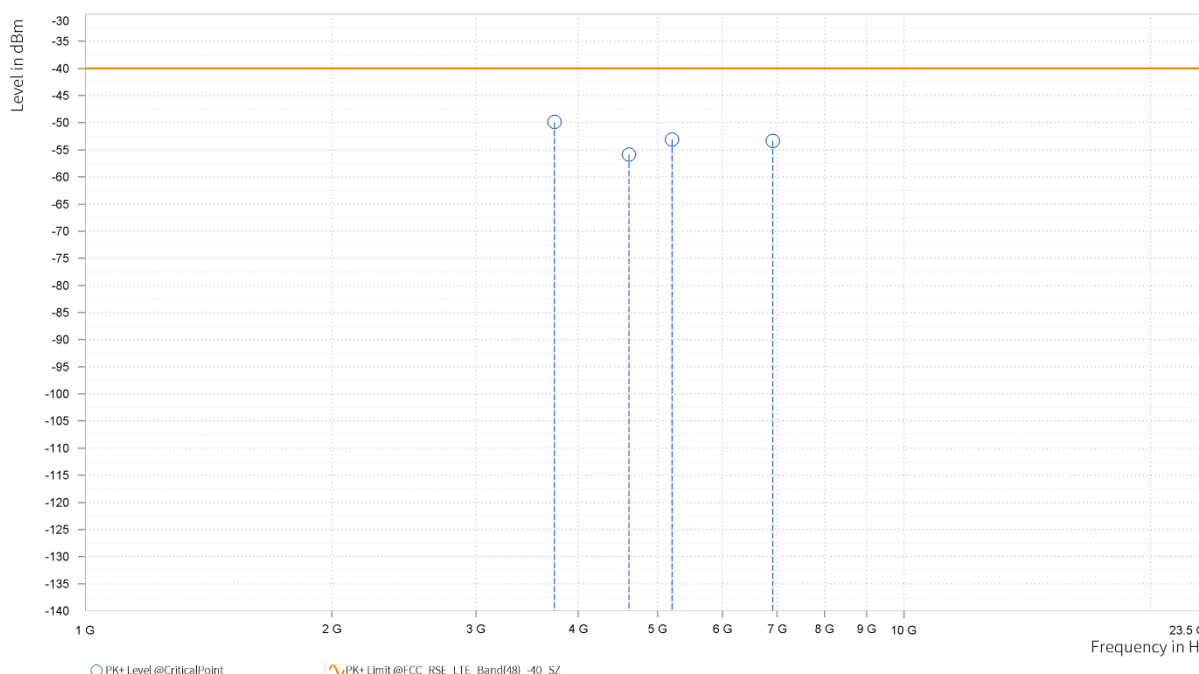
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

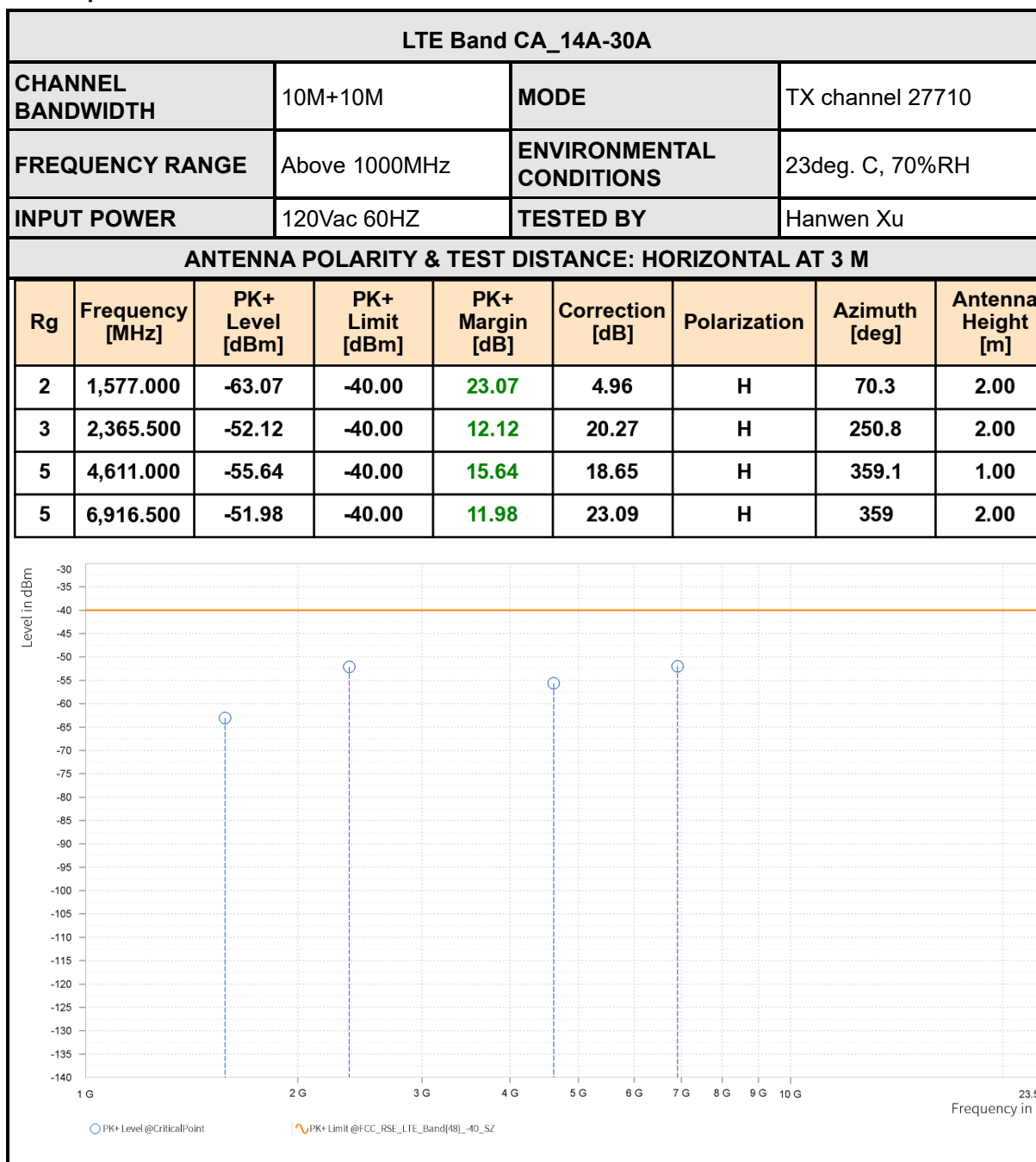
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

CHANNEL BANDWIDTH	20M+10M	MODE	TX channel 27710
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]
3	3,742.000	-49.88	-40.00	9.88	23.39	V	102	1.00
5	4,610.500	-55.87	-40.00	15.87	18.66	V	0.9	2.00
5	5,207.500	-53.09	-40.00	13.09	20.59	V	210.2	2.00
5	6,916.500	-53.33	-40.00	13.33	23.09	V	0.9	2.00

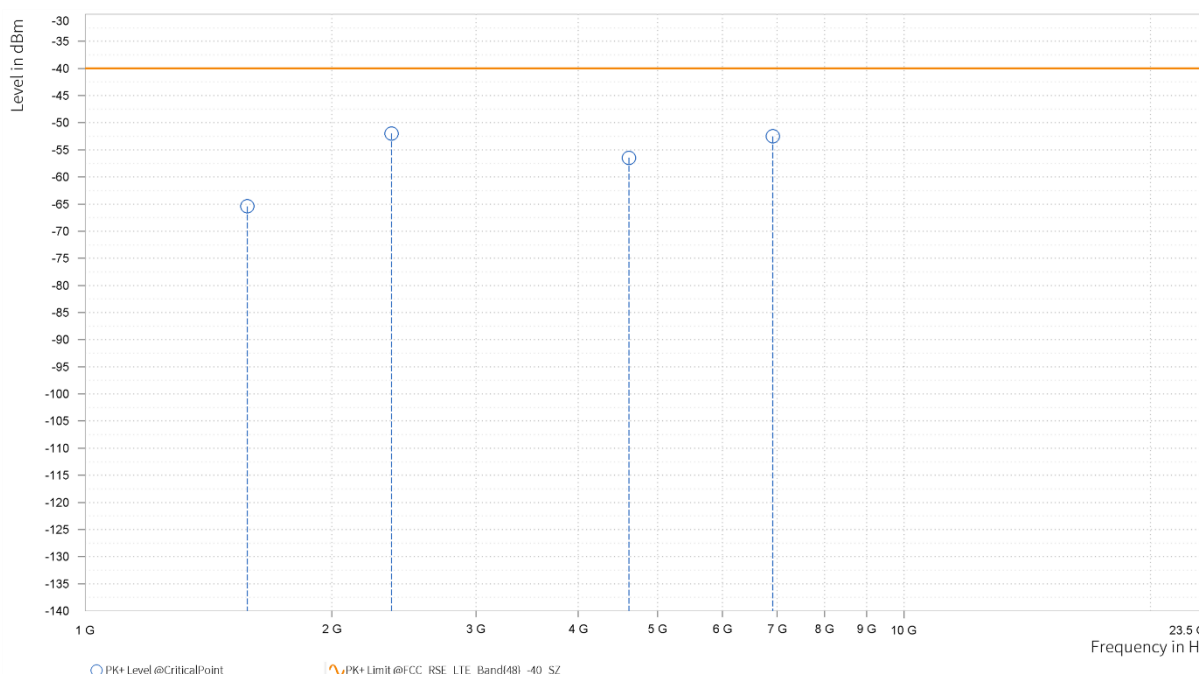


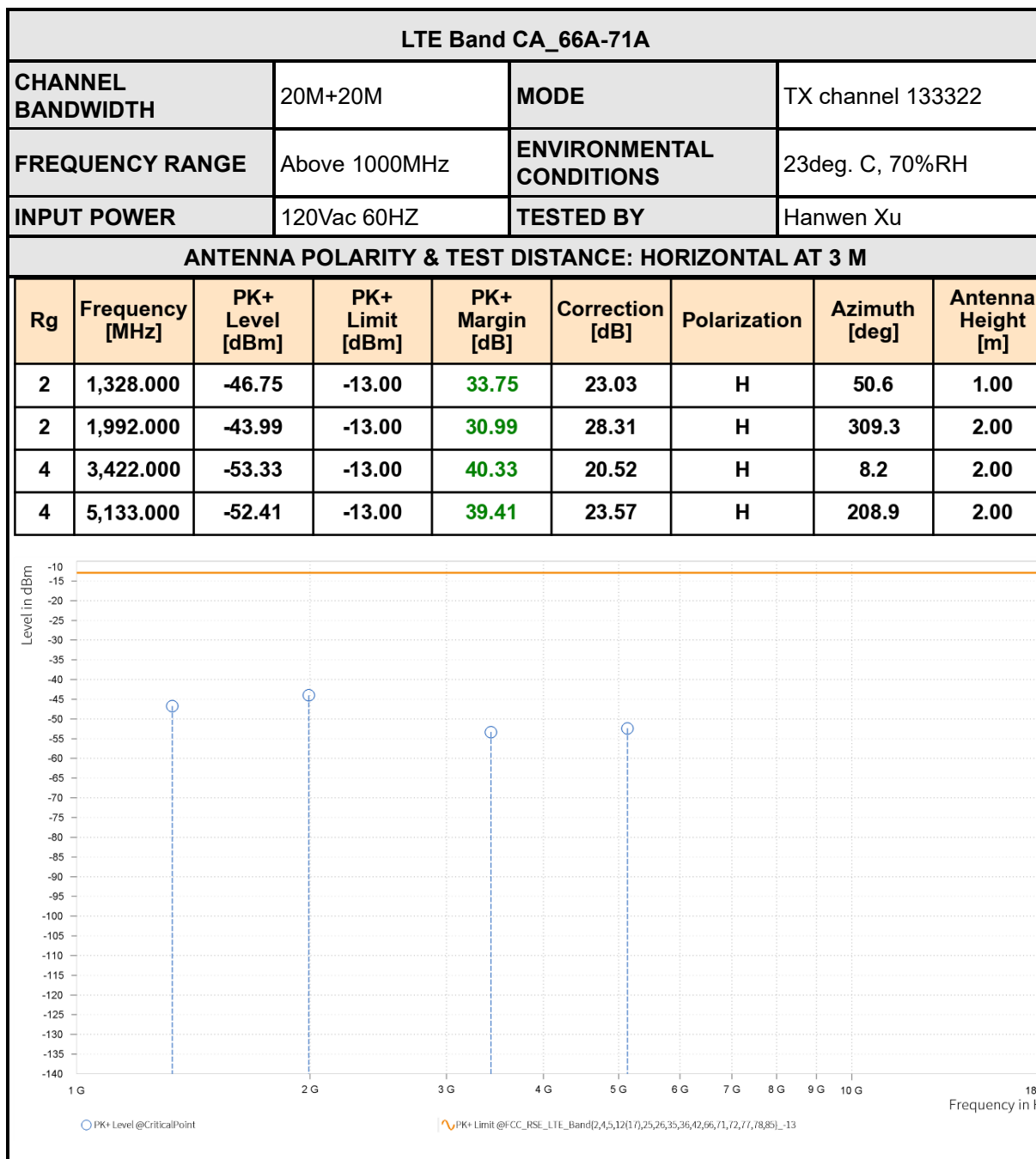


CHANNEL BANDWIDTH	10M+10M	MODE	TX channel 27710
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	1,577.000	-65.40	-40.00	25.40	4.96	V	1	1.00
3	2,365.000	-51.99	-40.00	11.99	20.26	V	101.9	1.00
5	4,611.000	-56.48	-40.00	16.48	18.65	V	306.4	1.00
5	6,916.500	-52.52	-40.00	12.52	23.09	V	210.2	2.00

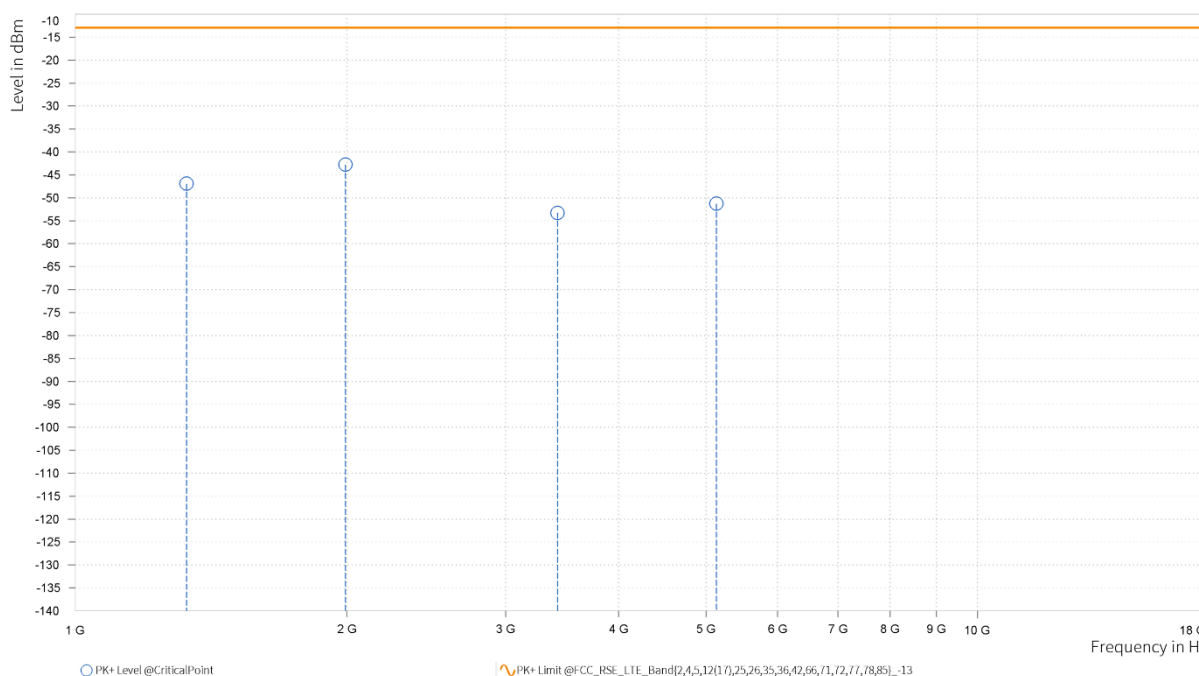




CHANNEL BANDWIDTH	20M+20M	MODE	TX channel 133322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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	1,328.000	-46.90	-13.00	33.90	24.09	V	1	1.00
2	1,992.000	-42.76	-13.00	29.76	28.30	V	309.4	2.00
4	3,422.000	-53.27	-13.00	40.27	20.87	V	359	2.00
4	5,133.000	-51.28	-13.00	38.28	23.88	V	1	1.00

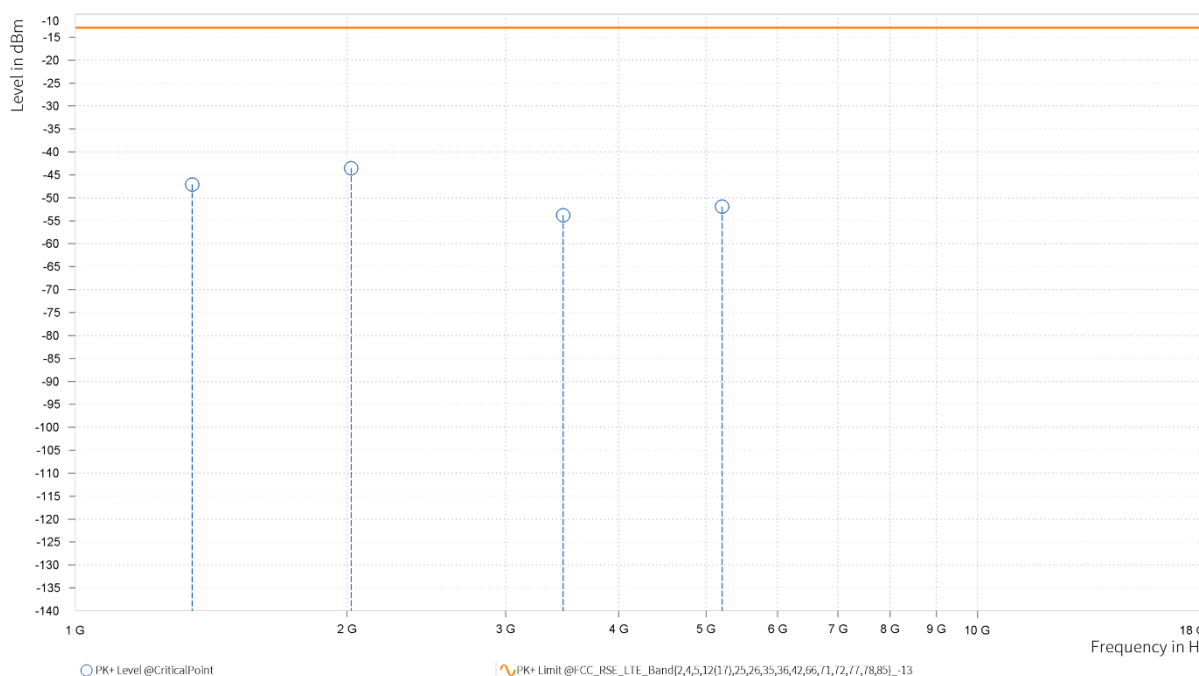


Test Report No.: RF260714B008

CHANNEL BANDWIDTH	20M+20M	MODE	TX channel 133322
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	1,348.000	-47.11	-13.00	34.11	23.24	H	359	2.00
2	2,022.000	-43.54	-13.00	30.54	27.89	H	1	1.00
4	3,472.000	-53.79	-13.00	40.79	20.35	H	359	2.00
4	5,208.000	-51.91	-13.00	38.91	23.90	H	350.6	1.00



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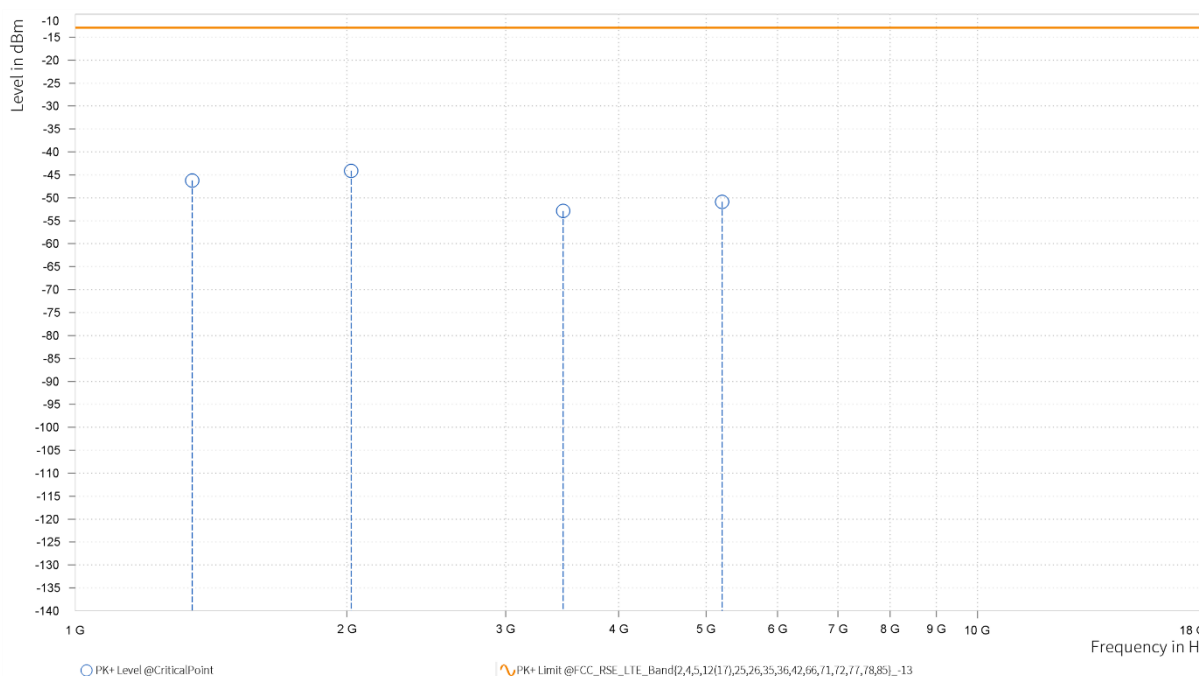
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

CHANNEL BANDWIDTH	20M+20M	MODE	TX channel 133322
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	1,348.000	-46.21	-13.00	33.21	23.95	V	359	2.00
2	2,022.000	-44.13	-13.00	31.13	28.42	V	51.8	1.00
4	3,472.000	-52.88	-13.00	39.88	21.07	V	209	2.00
4	5,208.000	-50.85	-13.00	37.85	24.49	V	359.1	1.00

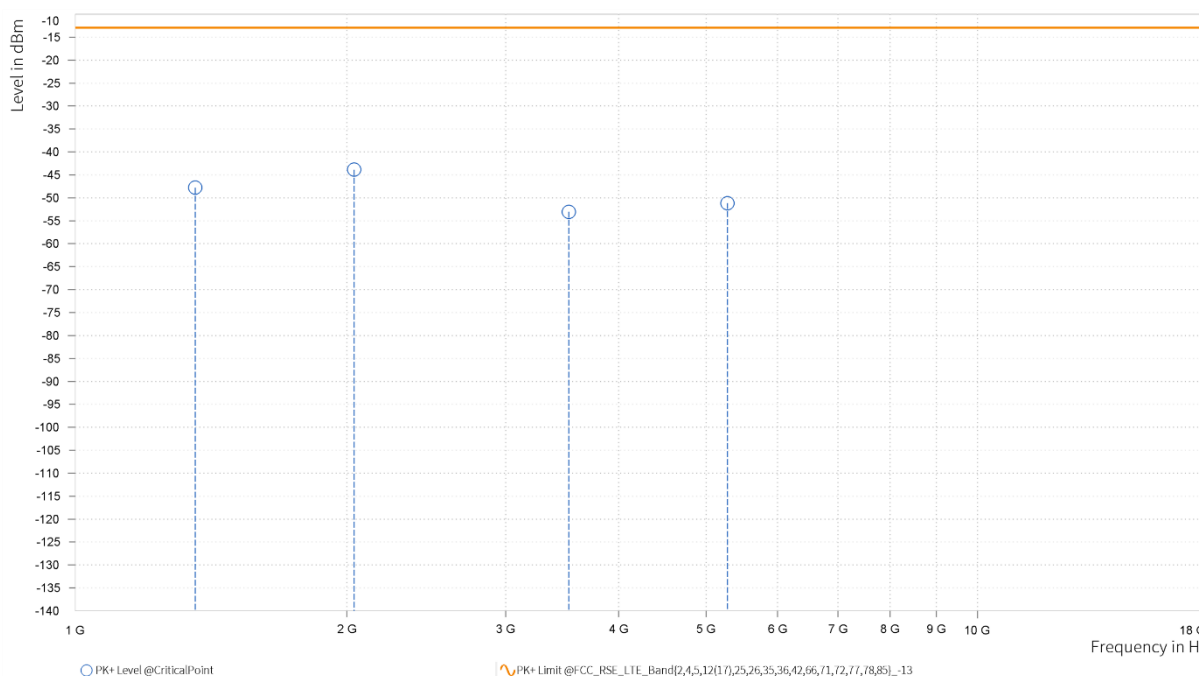


Test Report No.: RF260714B008

CHANNEL BANDWIDTH	20M+20M	MODE	TX channel 133322
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

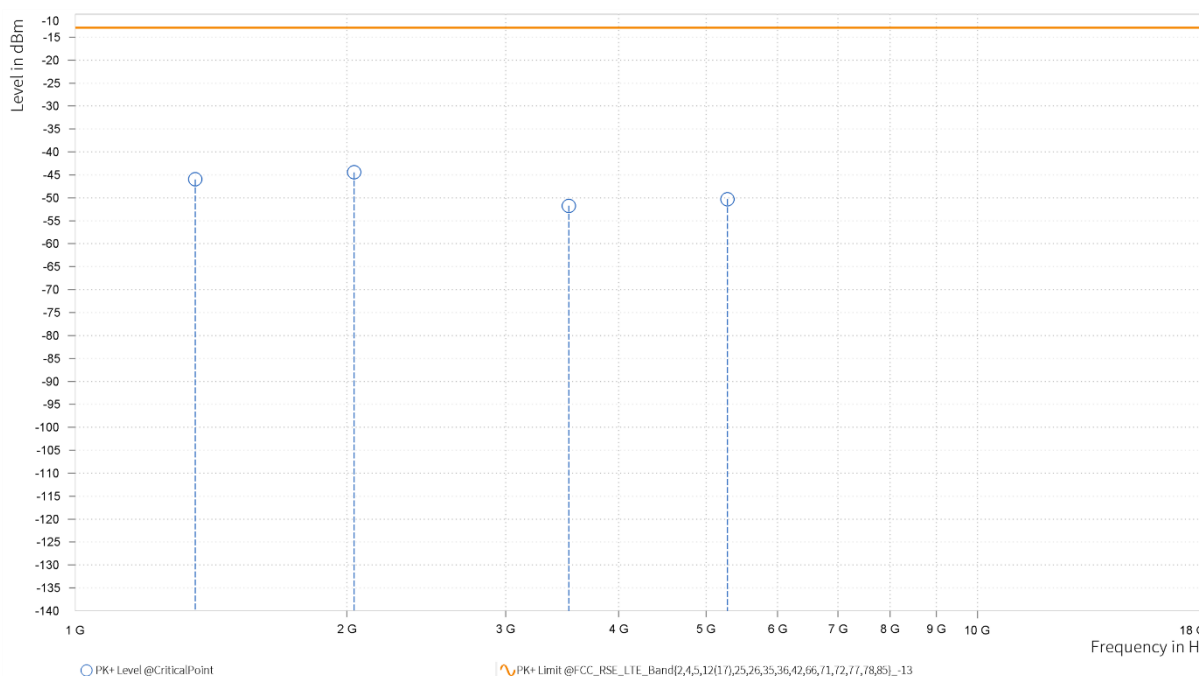
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,358.000	-47.80	-13.00	34.80	23.07	H	359	2.00
2	2,037.000	-43.85	-13.00	30.85	27.65	H	51.8	1.00
4	3,522.000	-53.03	-13.00	40.03	20.66	H	1	1.00
4	5,283.000	-51.17	-13.00	38.17	24.14	H	1	2.00



CHANNEL BANDWIDTH	20M+20M	MODE	TX channel 133322
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	1,358.000	-45.97	-13.00	32.97	24.09	V	26	2.00
2	2,037.000	-44.45	-13.00	31.45	28.20	V	359	2.00
4	3,522.000	-51.74	-13.00	38.74	21.24	V	1	1.00
4	5,283.000	-50.30	-13.00	37.30	24.65	V	1	1.00

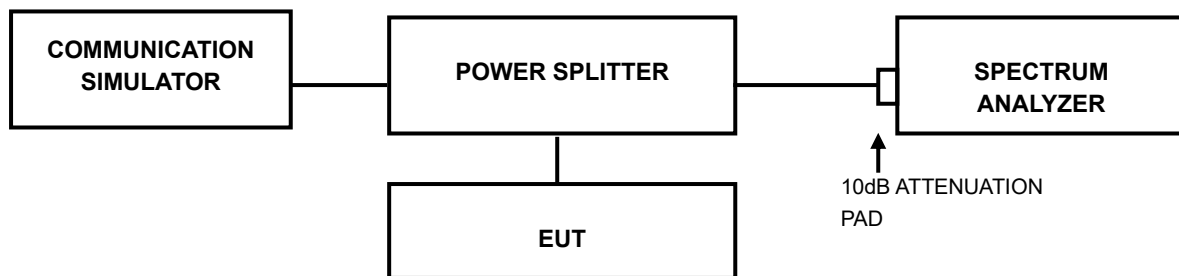


3.7 PEAK TO AVERAGE RATIO

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.



Test Report No.: RF260714B008

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 INFORMATION ON THE TESTING LABORATORIES

We, BOOMWAVE TEST (SHENZHEN) CO., LTD., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com

6 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.

7 Appendix

LTE BAND 7

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
5MHz	QPSK	20775	1RB Low	2.92	13	PASS
5MHz	QPSK	20775	Full RB	3.76	13	PASS
5MHz	16QAM	20775	1RB Low	3.06	13	PASS
5MHz	16QAM	20775	Full RB	4.76	13	PASS
5MHz	64QAM	20775	1RB Low	3.68	13	PASS
5MHz	64QAM	20775	Full RB	5.62	13	PASS
5MHz	256QAM	20775	1RB Low	6.54	13	PASS
5MHz	256QAM	20775	Full RB	6.68	13	PASS
5MHz	QPSK	21100	1RB Low	3.78	13	PASS
5MHz	QPSK	21100	Full RB	4.16	13	PASS
5MHz	16QAM	21100	1RB Low	3.74	13	PASS
5MHz	16QAM	21100	Full RB	5.16	13	PASS
5MHz	64QAM	21100	1RB Low	4.72	13	PASS
5MHz	64QAM	21100	Full RB	5.94	13	PASS
5MHz	256QAM	21100	1RB Low	6.94	13	PASS
5MHz	256QAM	21100	Full RB	6.72	13	PASS
5MHz	QPSK	21425	1RB Low	2.92	13	PASS
5MHz	QPSK	21425	Full RB	3.44	13	PASS
5MHz	16QAM	21425	1RB Low	3.08	13	PASS
5MHz	16QAM	21425	Full RB	4.38	13	PASS
5MHz	64QAM	21425	1RB Low	3.90	13	PASS
5MHz	64QAM	21425	Full RB	5.36	13	PASS
5MHz	256QAM	21425	1RB Low	6.30	13	PASS
5MHz	256QAM	21425	Full RB	6.70	13	PASS
10MHz	QPSK	20800	1RB Low	3.06	13	PASS
10MHz	QPSK	20800	Full RB	3.72	13	PASS
10MHz	16QAM	20800	1RB Low	2.84	13	PASS
10MHz	16QAM	20800	Full RB	4.68	13	PASS
10MHz	64QAM	20800	1RB Low	3.92	13	PASS
10MHz	64QAM	20800	Full RB	5.44	13	PASS
10MHz	256QAM	20800	1RB Low	6.50	13	PASS
10MHz	256QAM	20800	Full RB	6.54	13	PASS
10MHz	QPSK	21100	1RB Low	3.66	13	PASS
10MHz	QPSK	21100	Full RB	4.22	13	PASS
10MHz	16QAM	21100	1RB Low	3.72	13	PASS
10MHz	16QAM	21100	Full RB	5.14	13	PASS
10MHz	64QAM	21100	1RB Low	4.24	13	PASS
10MHz	64QAM	21100	Full RB	5.98	13	PASS
10MHz	256QAM	21100	1RB Low	6.94	13	PASS
10MHz	256QAM	21100	Full RB	6.80	13	PASS
10MHz	QPSK	21400	1RB Low	3.30	13	PASS
10MHz	QPSK	21400	Full RB	3.84	13	PASS
10MHz	16QAM	21400	1RB Low	2.92	13	PASS
10MHz	16QAM	21400	Full RB	4.84	13	PASS
10MHz	64QAM	21400	1RB Low	3.86	13	PASS

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10MHz	64QAM	21400	Full RB	5.66	13	PASS
10MHz	256QAM	21400	1RB Low	7.00	13	PASS
10MHz	256QAM	21400	Full RB	6.78	13	PASS
15MHz	QPSK	20825	1RB Low	3.20	13	PASS
15MHz	QPSK	20825	Full RB	4.16	13	PASS
15MHz	16QAM	20825	1RB Low	3.28	13	PASS
15MHz	16QAM	20825	Full RB	5.00	13	PASS
15MHz	64QAM	20825	1RB Low	4.24	13	PASS
15MHz	64QAM	20825	Full RB	5.76	13	PASS
15MHz	256QAM	20825	1RB Low	6.9	13	PASS
15MHz	256QAM	20825	Full RB	6.7	13	PASS
15MHz	QPSK	21100	1RB Low	3.76	13	PASS
15MHz	QPSK	21100	Full RB	4.58	13	PASS
15MHz	16QAM	21100	1RB Low	3.74	13	PASS
15MHz	16QAM	21100	Full RB	5.52	13	PASS
15MHz	64QAM	21100	1RB Low	4.80	13	PASS
15MHz	64QAM	21100	Full RB	6.18	13	PASS
15MHz	256QAM	21100	1RB Low	7.02	13	PASS
15MHz	256QAM	21100	Full RB	6.84	13	PASS
15MHz	QPSK	21375	1RB Low	3.50	13	PASS
15MHz	QPSK	21375	Full RB	4.26	13	PASS
15MHz	16QAM	21375	1RB Low	3.10	13	PASS
15MHz	16QAM	21375	Full RB	5.40	13	PASS
15MHz	64QAM	21375	1RB Low	4.40	13	PASS
15MHz	64QAM	21375	Full RB	6.02	13	PASS
15MHz	256QAM	21375	1RB Low	7.04	13	PASS
15MHz	256QAM	21375	Full RB	6.88	13	PASS
20MHz	QPSK	20850	1RB Low	3.30	13	PASS
20MHz	QPSK	20850	Full RB	4.44	13	PASS
20MHz	16QAM	20850	1RB Low	2.92	13	PASS
20MHz	16QAM	20850	Full RB	5.32	13	PASS
20MHz	64QAM	20850	1RB Low	3.74	13	PASS
20MHz	64QAM	20850	Full RB	5.98	13	PASS
20MHz	256QAM	20850	1RB Low	6.96	13	PASS
20MHz	256QAM	20850	Full RB	6.68	13	PASS
20MHz	QPSK	21100	1RB Low	3.70	13	PASS
20MHz	QPSK	21100	Full RB	4.74	13	PASS
20MHz	16QAM	21100	1RB Low	3.46	13	PASS
20MHz	16QAM	21100	Full RB	5.56	13	PASS
20MHz	64QAM	21100	1RB Low	4.42	13	PASS
20MHz	64QAM	21100	Full RB	6.28	13	PASS
20MHz	256QAM	21100	1RB Low	6.40	13	PASS
20MHz	256QAM	21100	Full RB	6.84	13	PASS
20MHz	QPSK	21350	1RB Low	3.58	13	PASS
20MHz	QPSK	21350	Full RB	4.66	13	PASS
20MHz	16QAM	21350	1RB Low	3.86	13	PASS
20MHz	16QAM	21350	Full RB	5.50	13	PASS
20MHz	64QAM	21350	1RB Low	4.44	13	PASS
20MHz	64QAM	21350	Full RB	6.22	13	PASS
20MHz	256QAM	21350	1RB Low	6.86	13	PASS
20MHz	256QAM	21350	Full RB	6.78	13	PASS

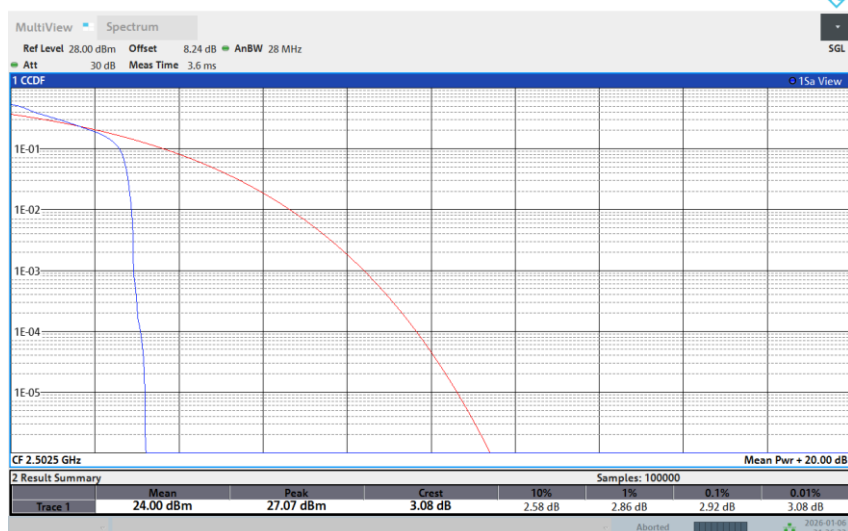
Test Graphs

Band 7-5M-LOW-QPSK-1RB Low

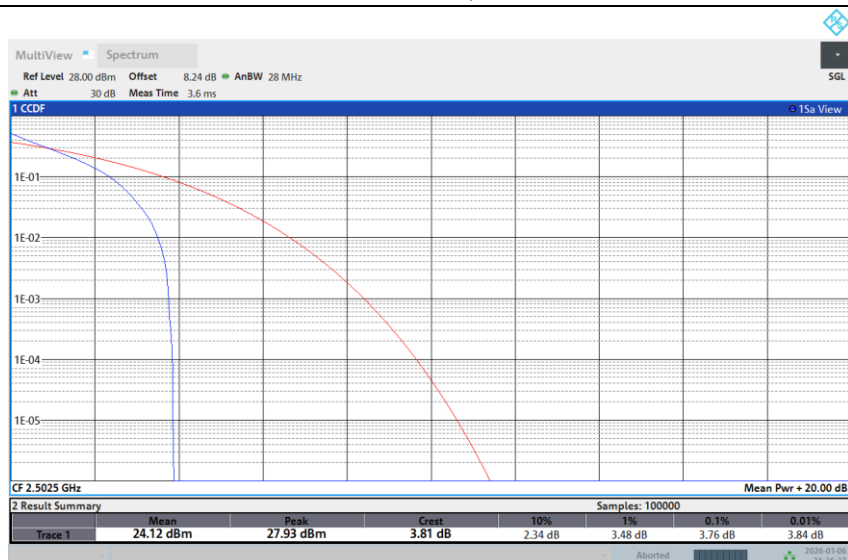
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4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

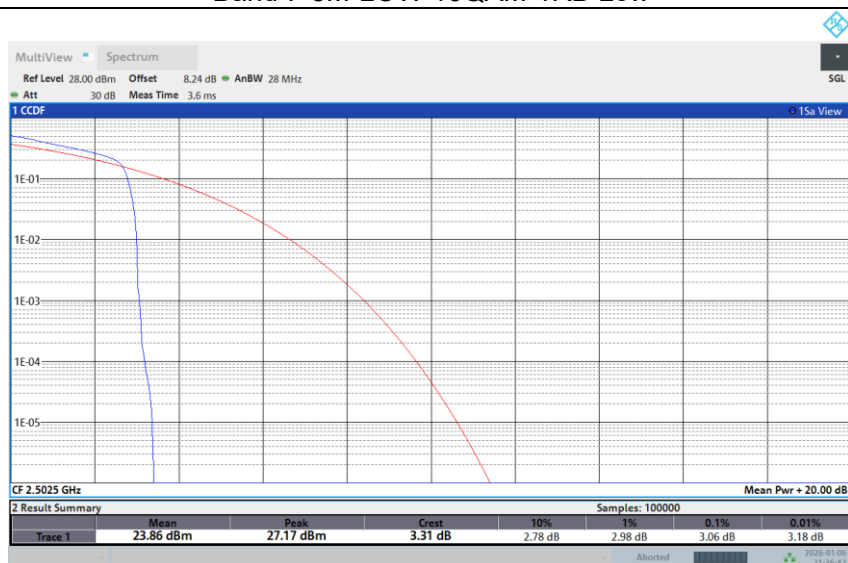
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Band 7-5M-LOW-QPSK-Full RB



Band 7-5M-LOW-16QAM-1RB Low

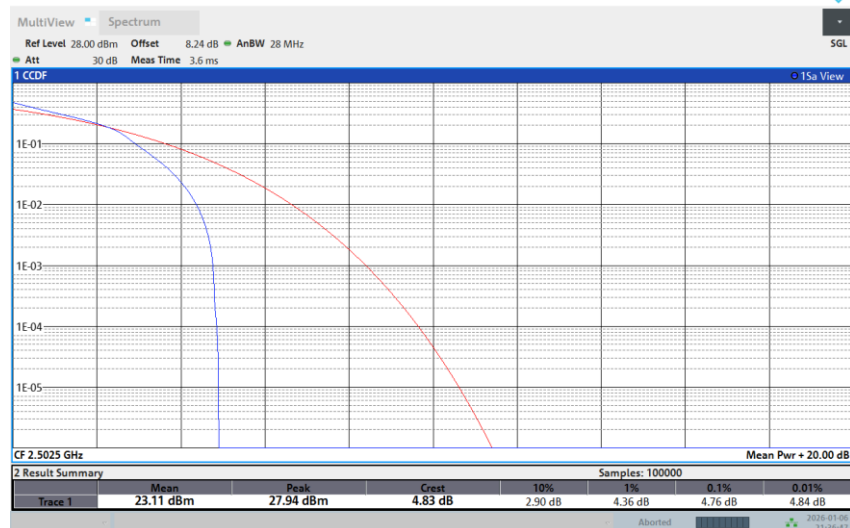


Band 7-5M-LOW-16QAM-Full RB

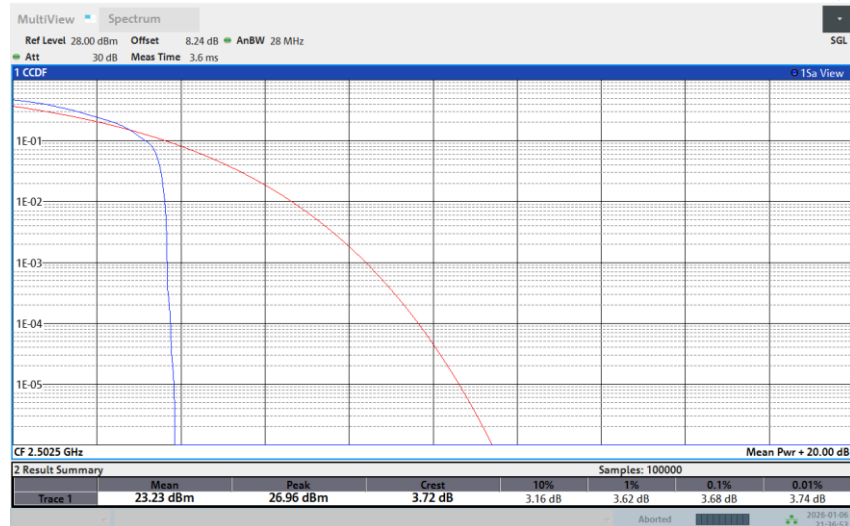
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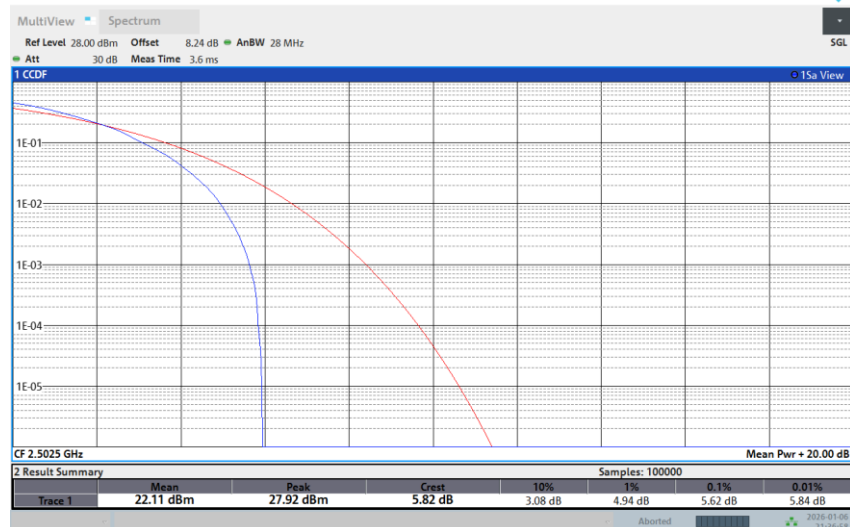
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



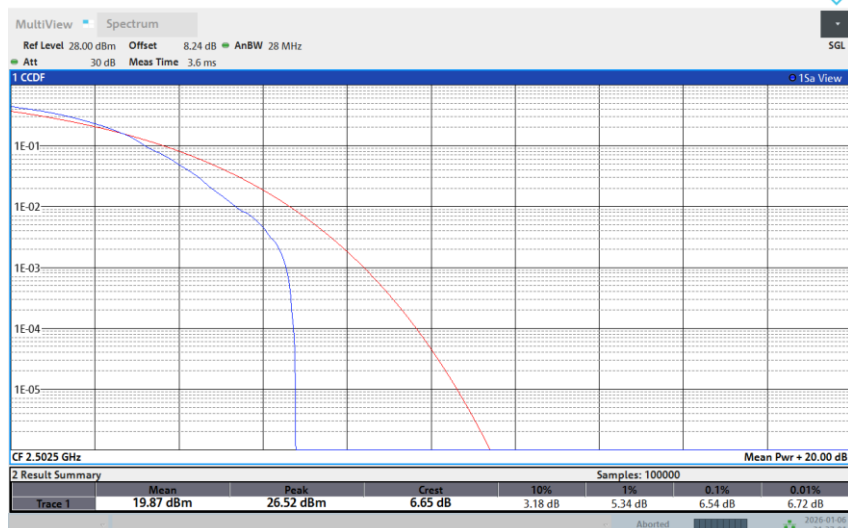
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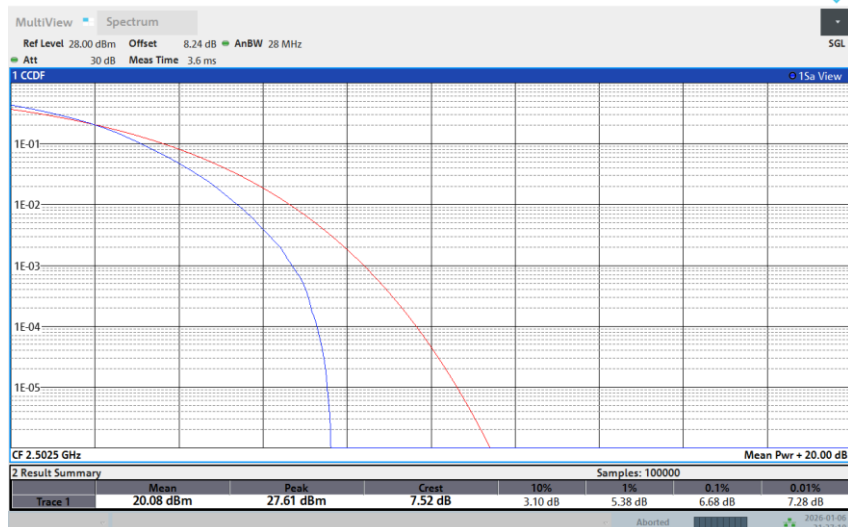
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Band 7-5M-LOW-256QAM-1RB Low



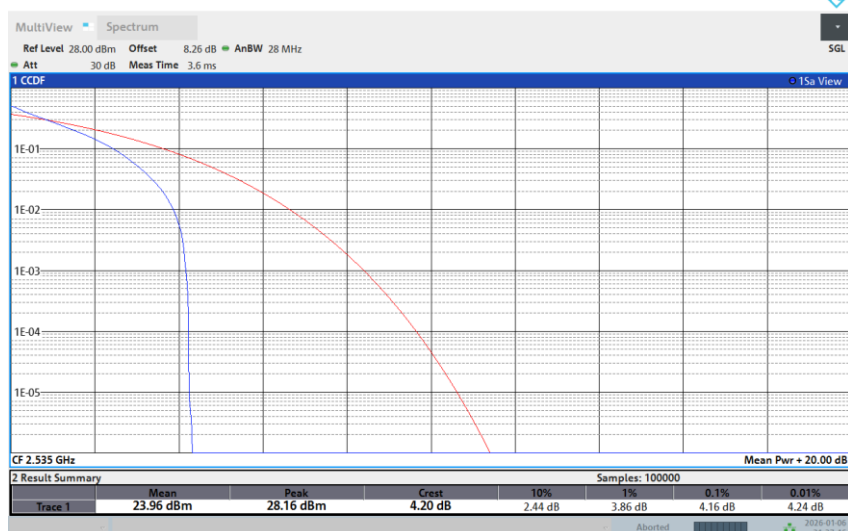
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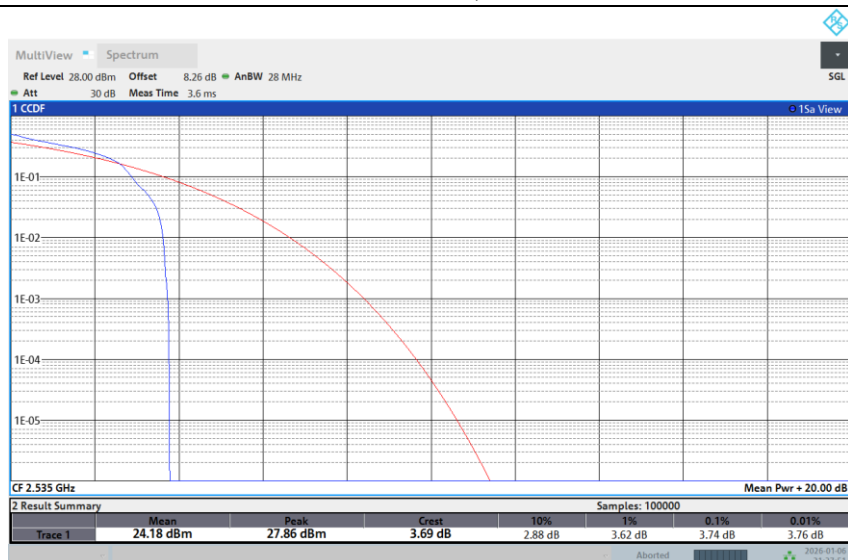
Band 7-5M-MID-QPSK-1RB Low



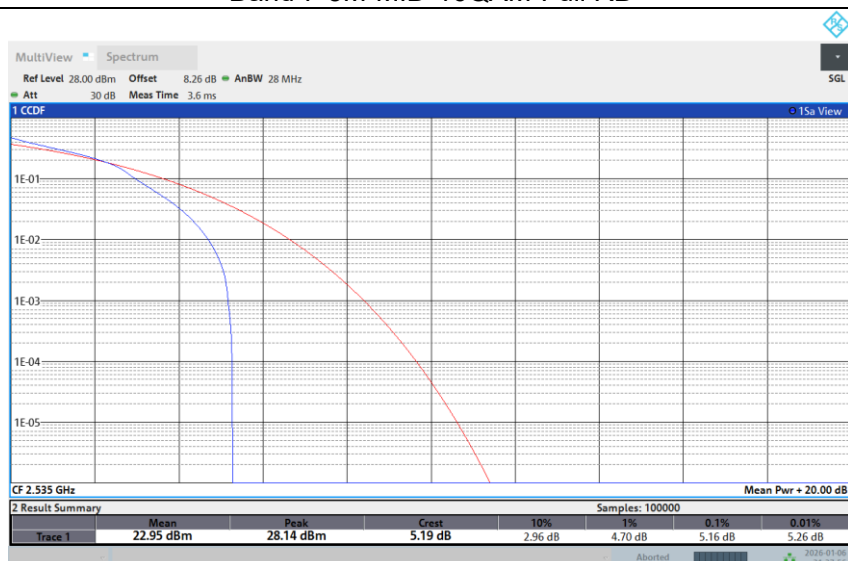
Band 7-5M-MID-QPSK-Full RB



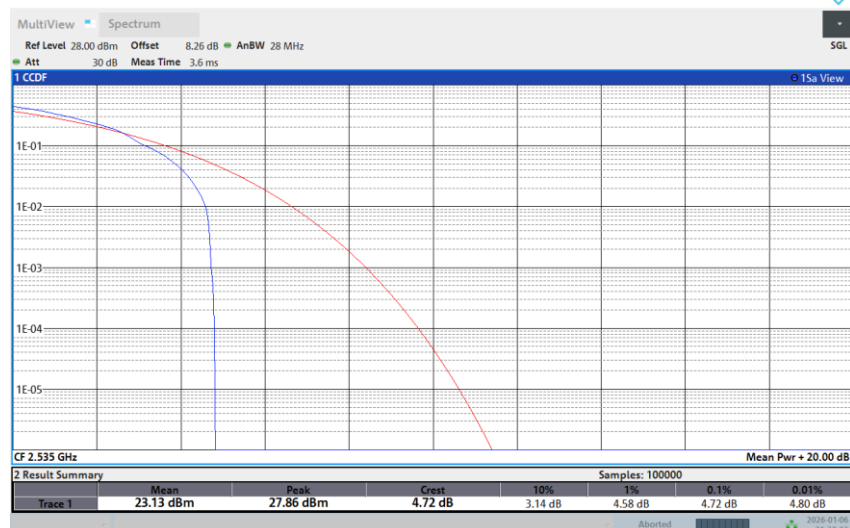
Band 7-5M-MID-16QAM-1RB Low



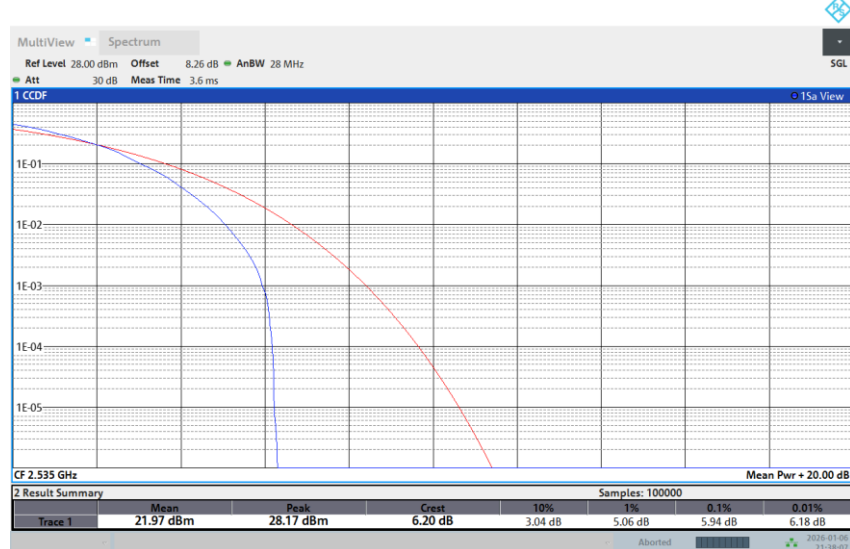
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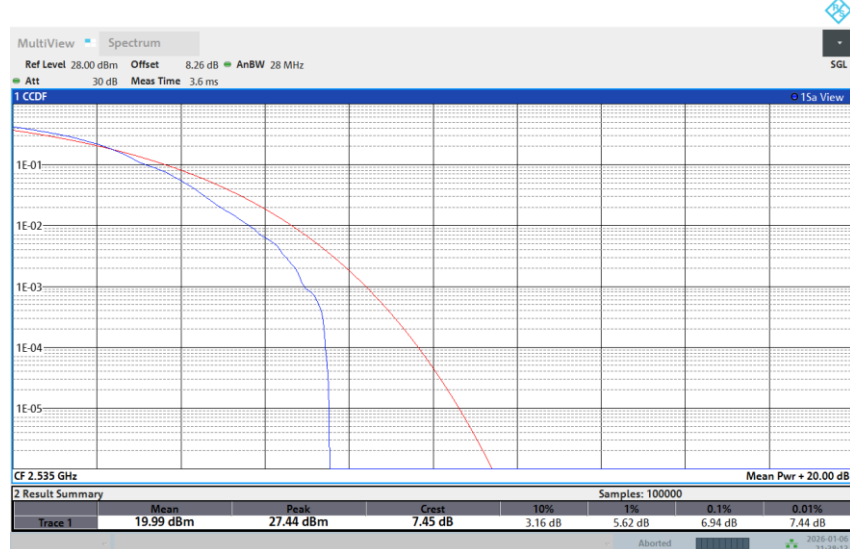
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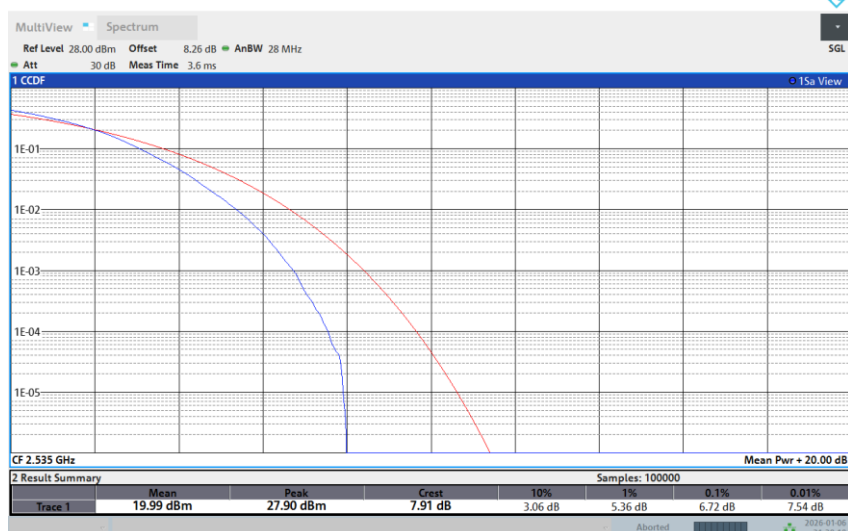
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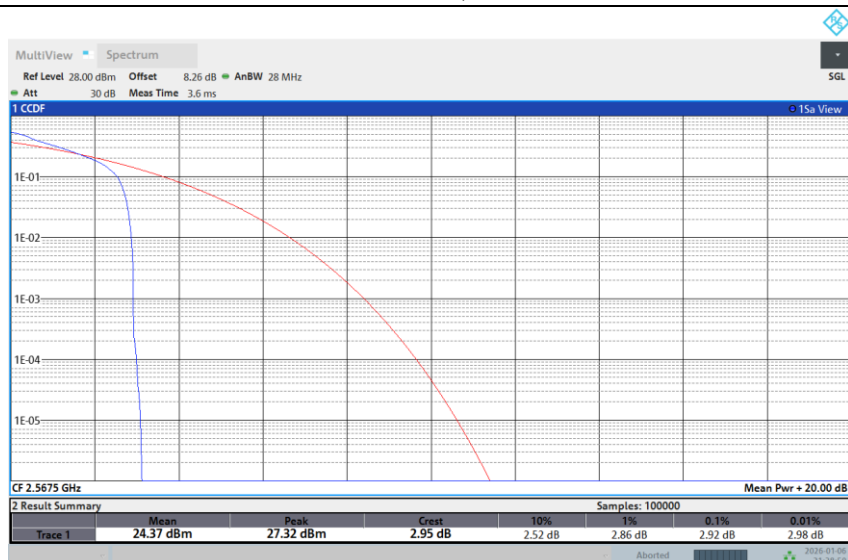
Band 7-5M-MID-256QAM-1RB Low



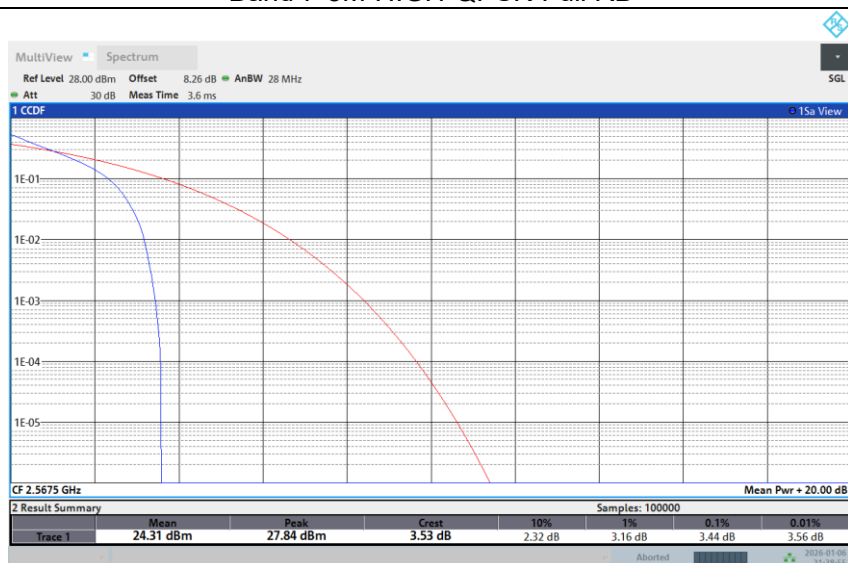
Band 7-5M-MID-256QAM-Full RB



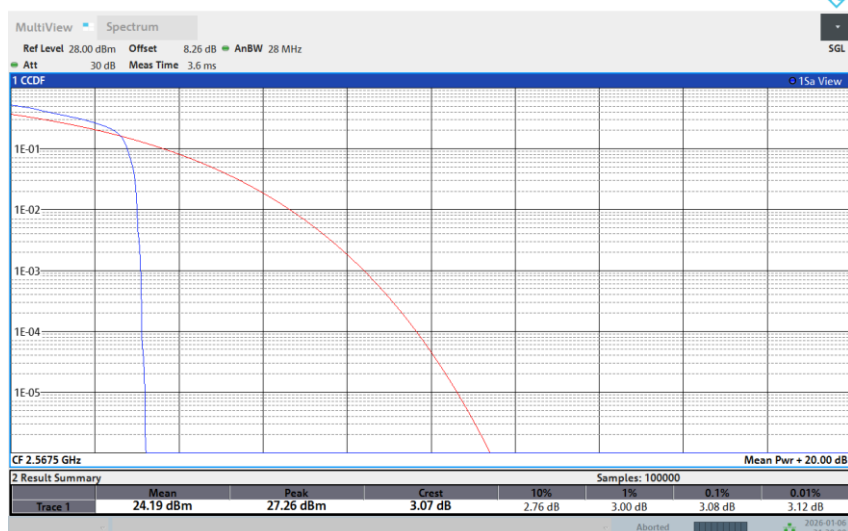
Band 7-5M-HIGH-QPSK-1RB Low



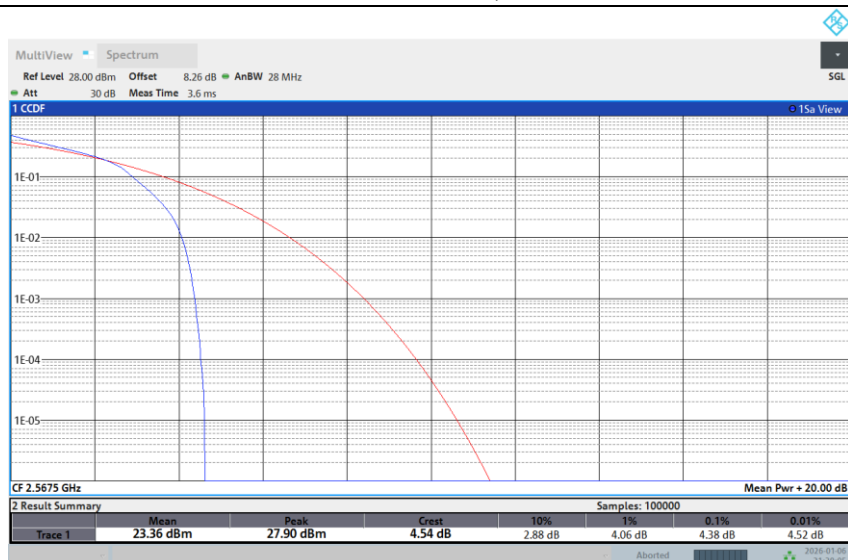
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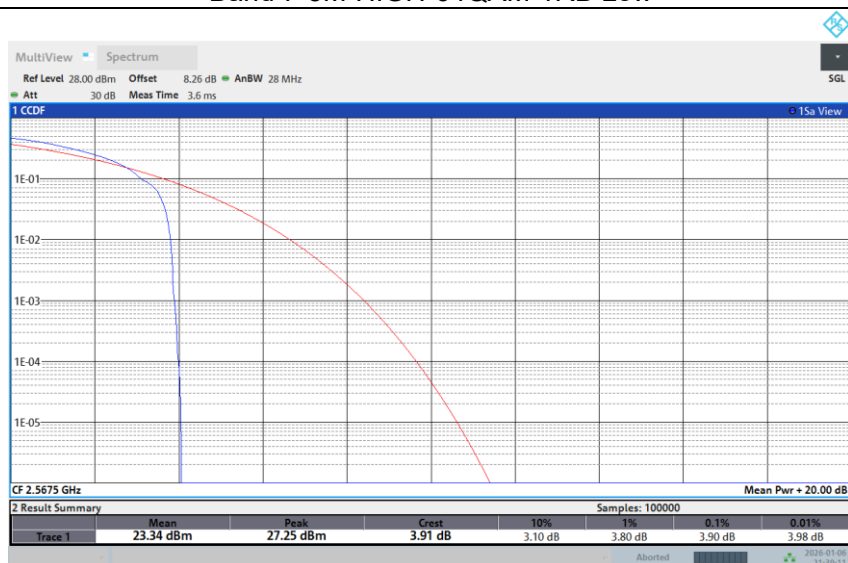
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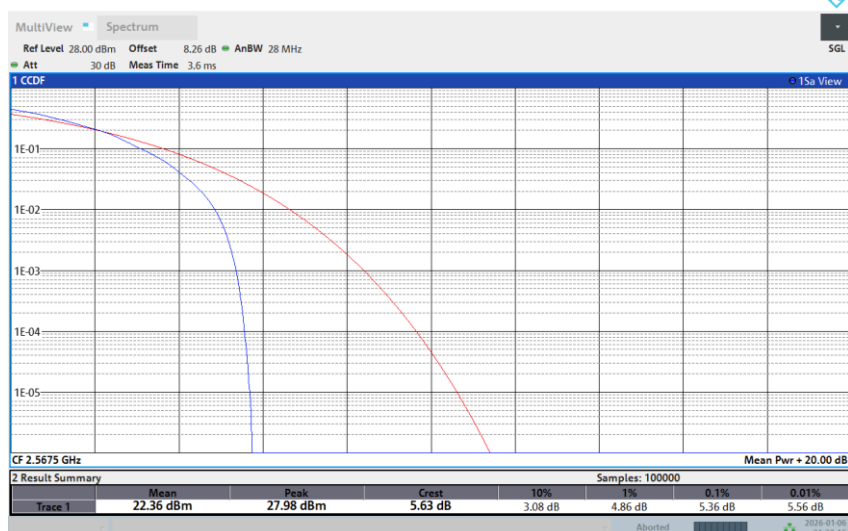
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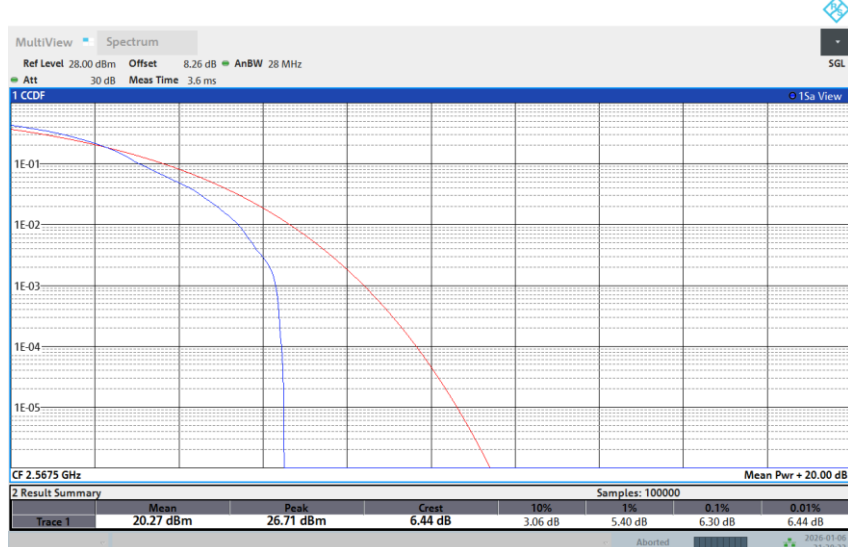
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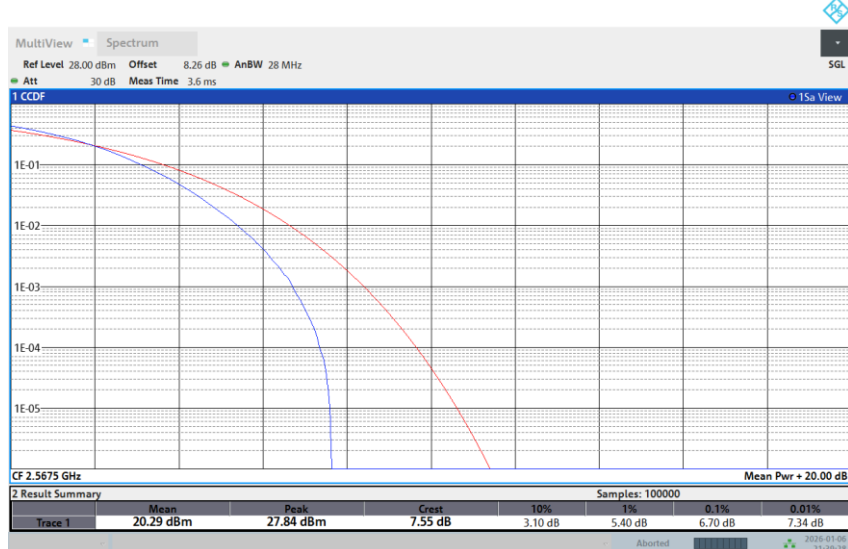
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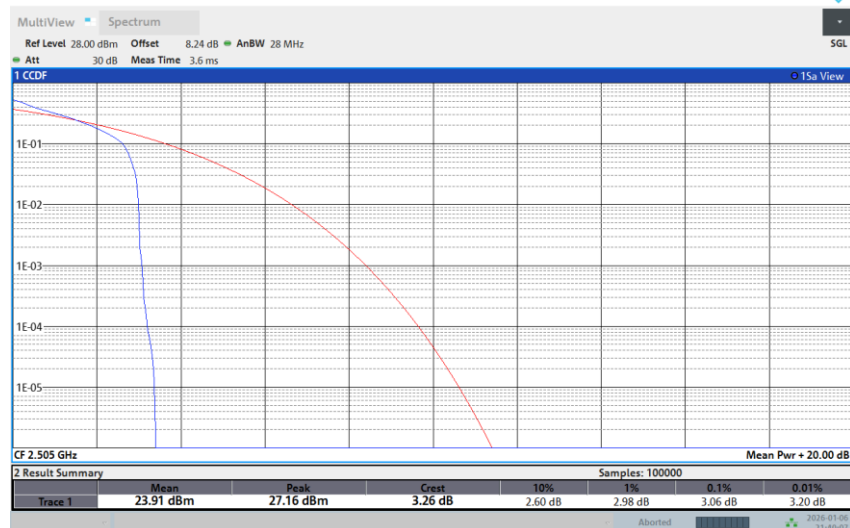
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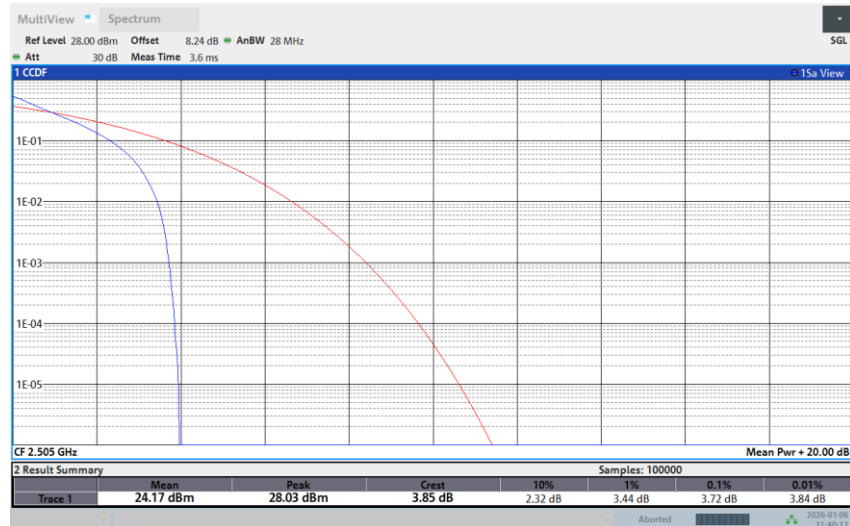
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Band 7-10M-LOW-QPSK-1RB Low



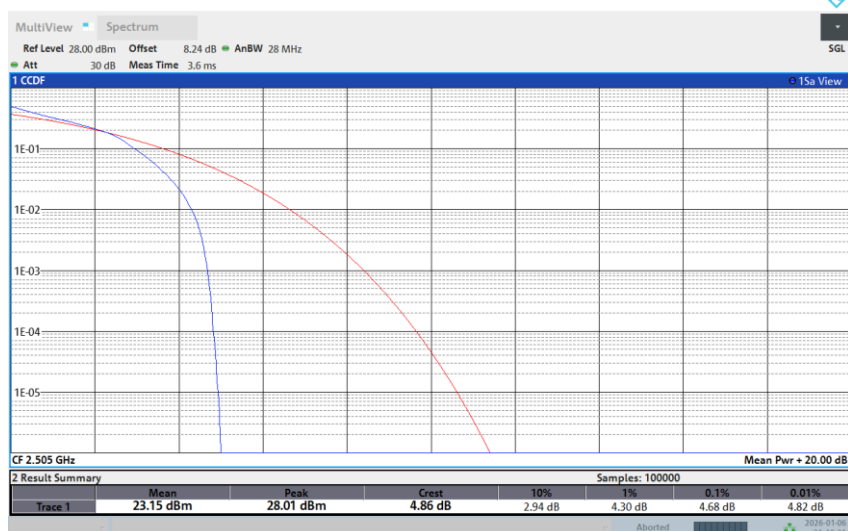
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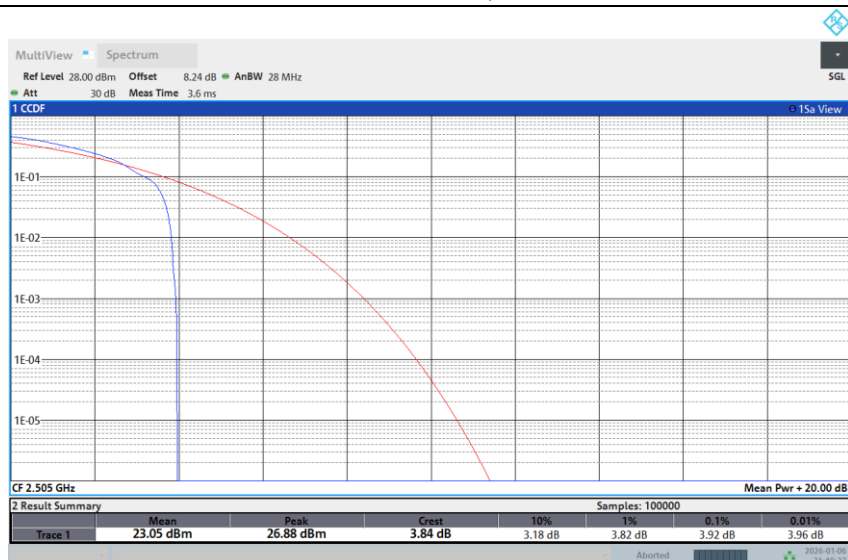
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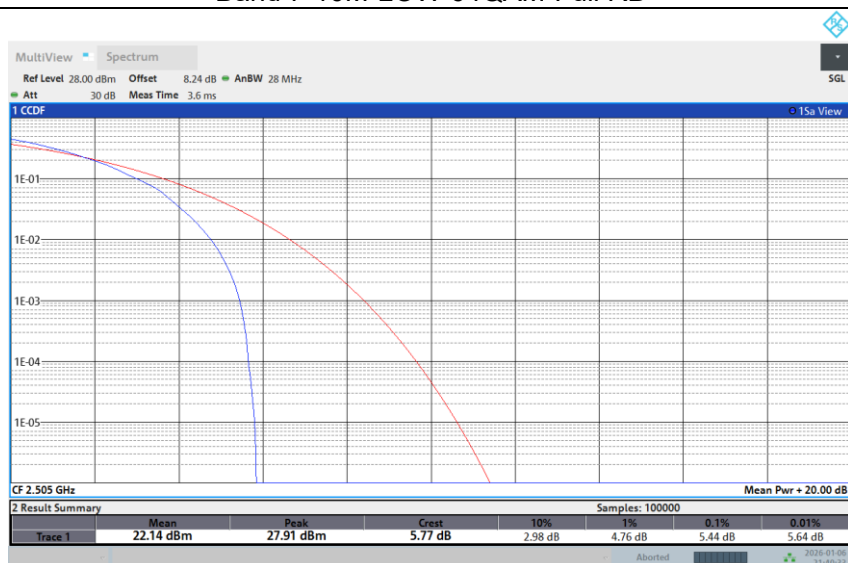
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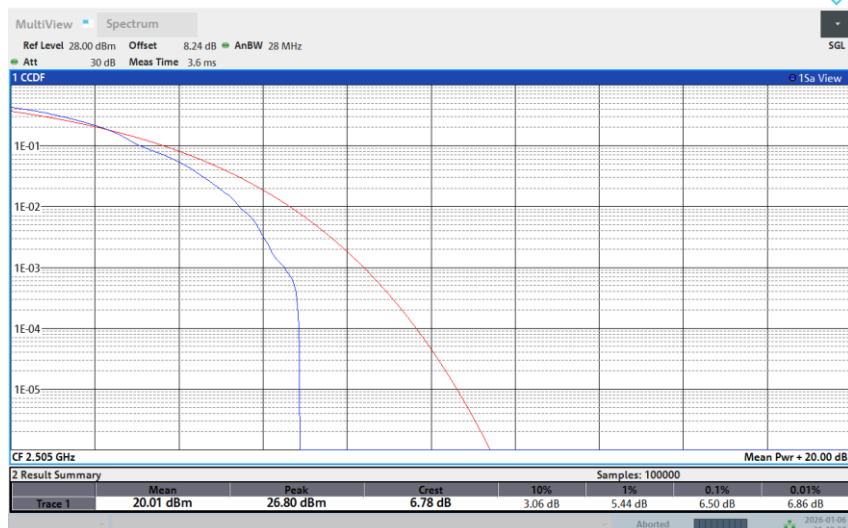
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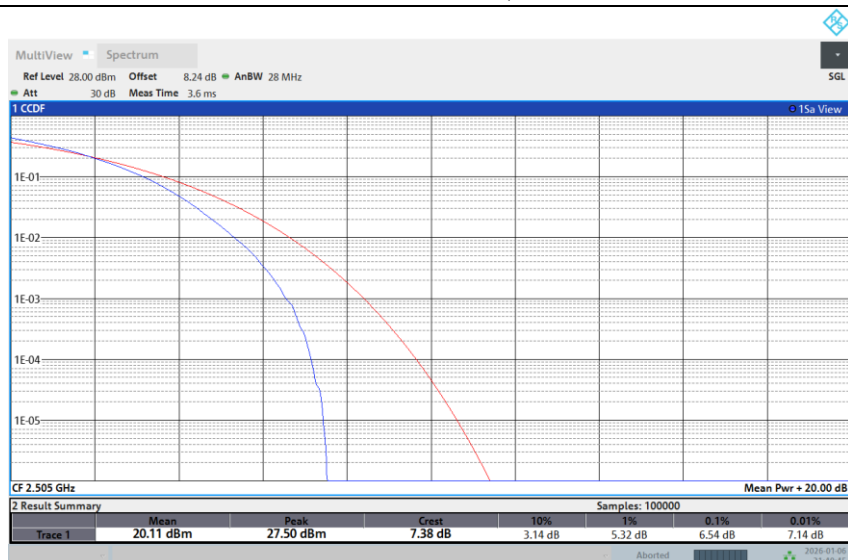
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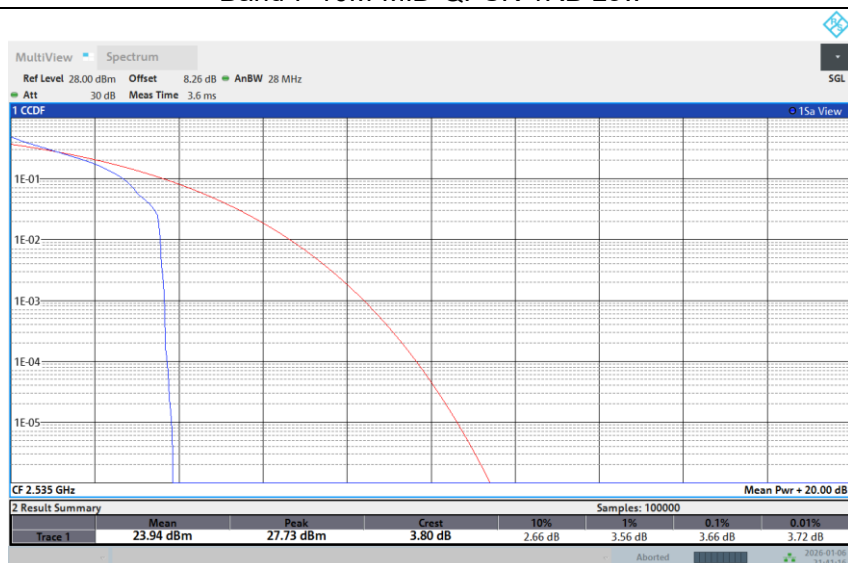
Band 7-10M-LOW-256QAM-1RB Low



Band 7-10M-LOW-256QAM-Full RB



Band 7-10M-MID-QPSK-1RB Low

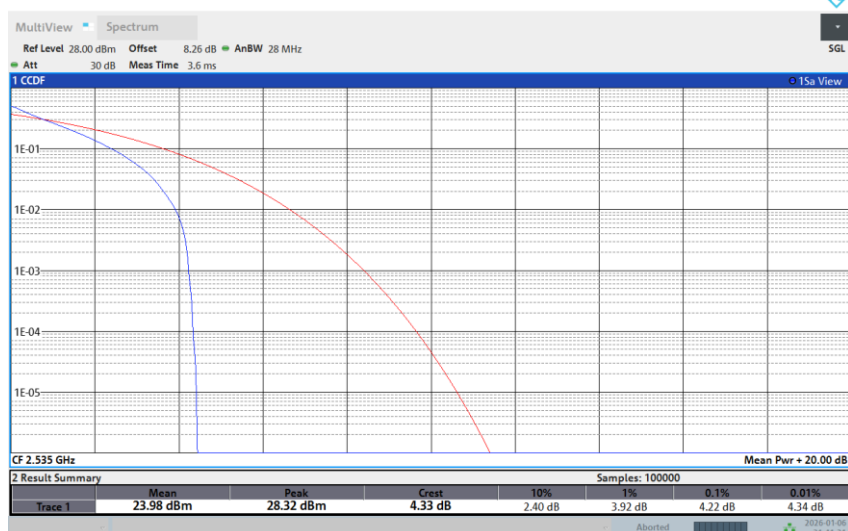


Band 7-10M-MID-QPSK-Full RB

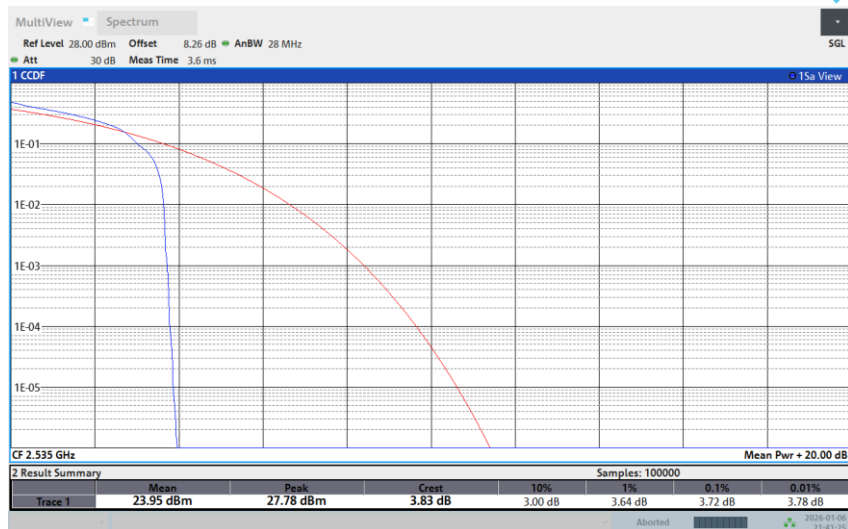
BOOMWAVE TEST (SHENZHEN)
CO., LTD.

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

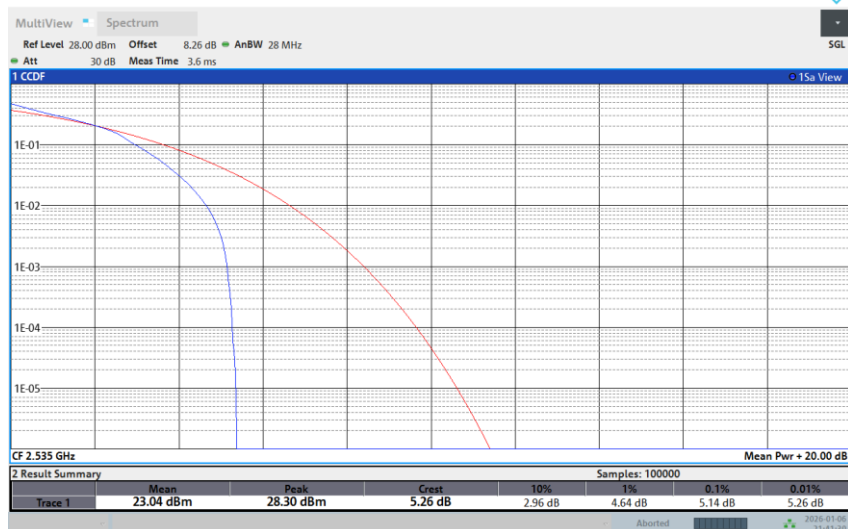
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Band 7-10M-MID-16QAM-1RB Low



Band 7-10M-MID-16QAM-Full RB

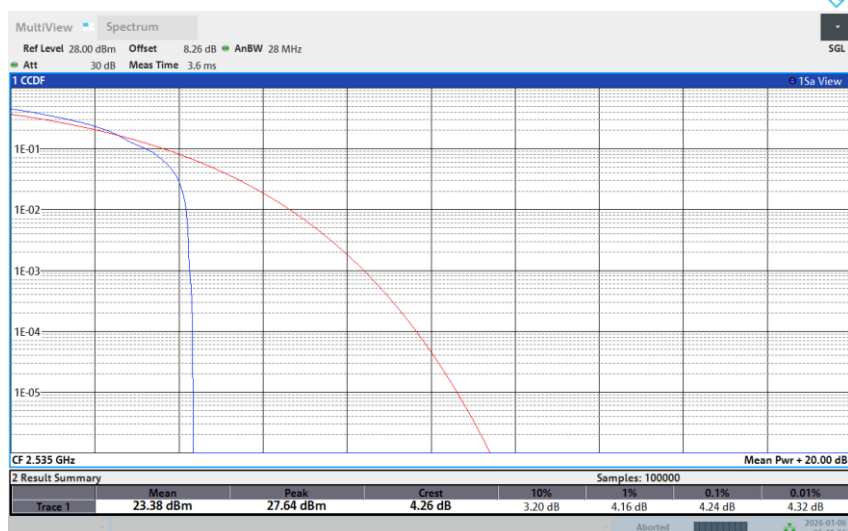


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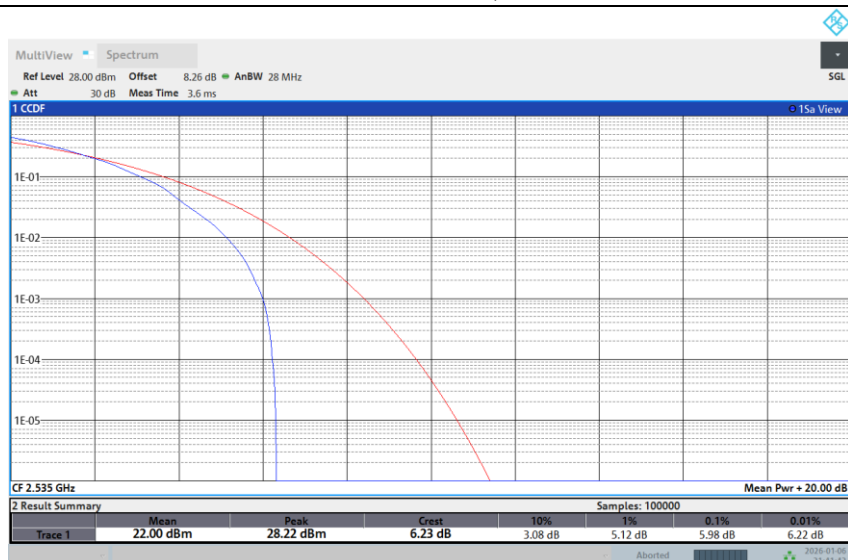
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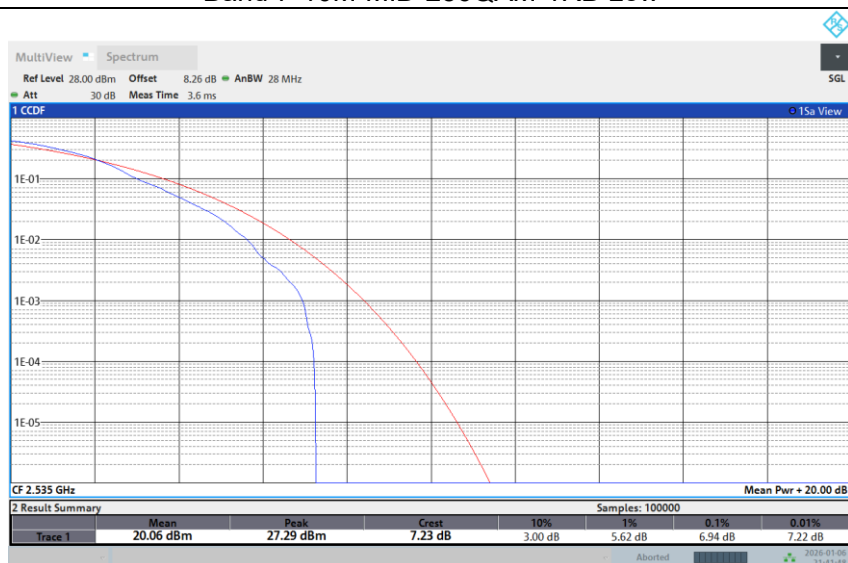
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



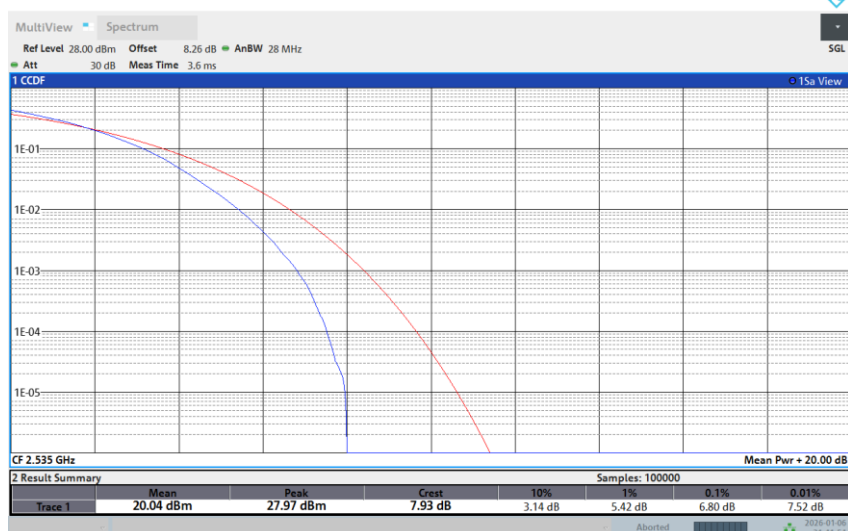
Band 7-10M-MID-64QAM-Full RB



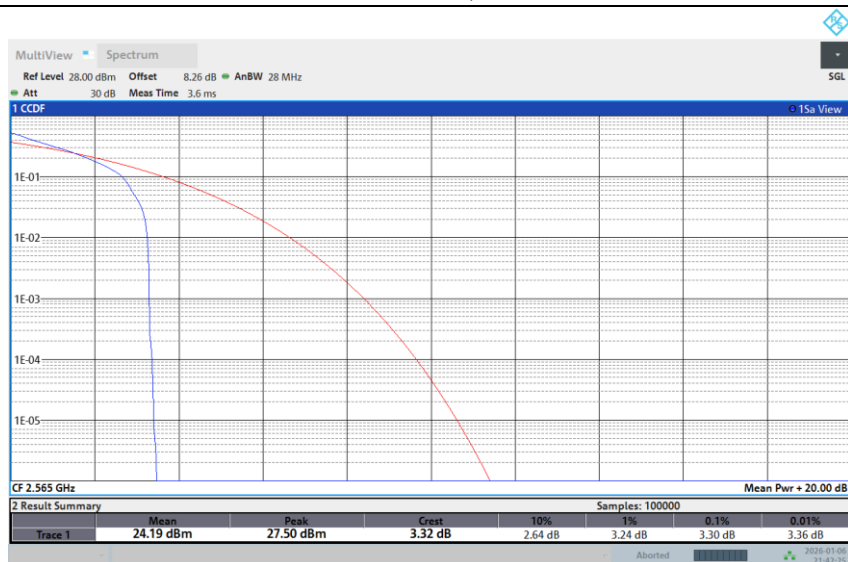
Band 7-10M-MID-256QAM-1RB Low



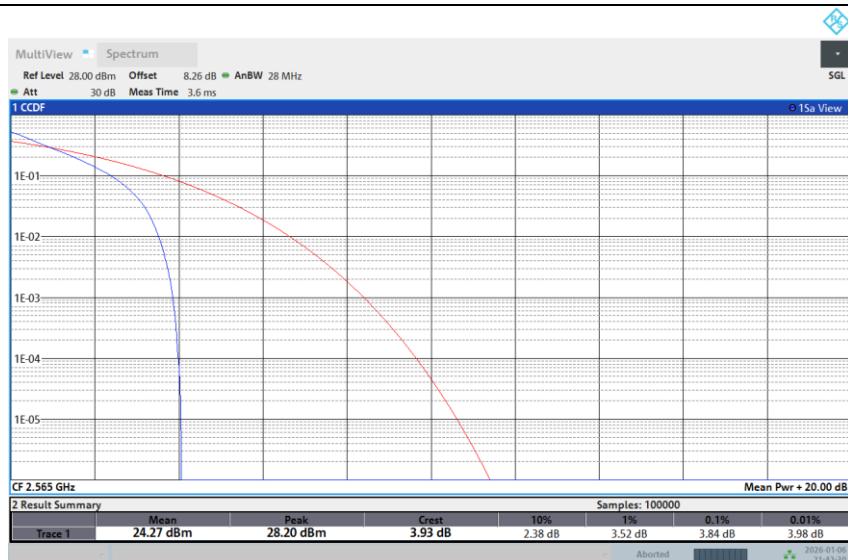
Band 7-10M-MID-256QAM-Full RB



Band 7-10M-HIGH-QPSK-1RB Low



Band 7-10M-HIGH-QPSK-Full RB



Band 7-10M-HIGH-16QAM-1RB Low

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