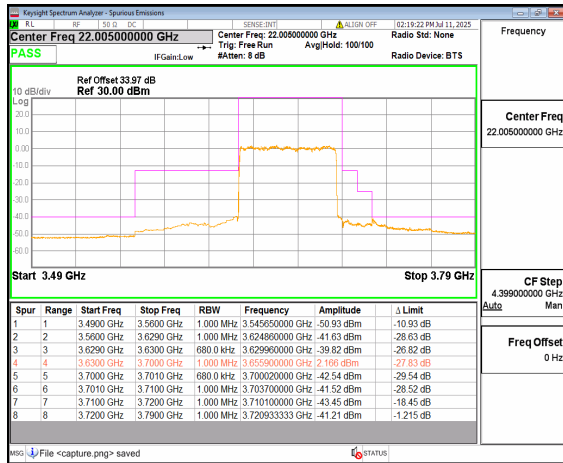
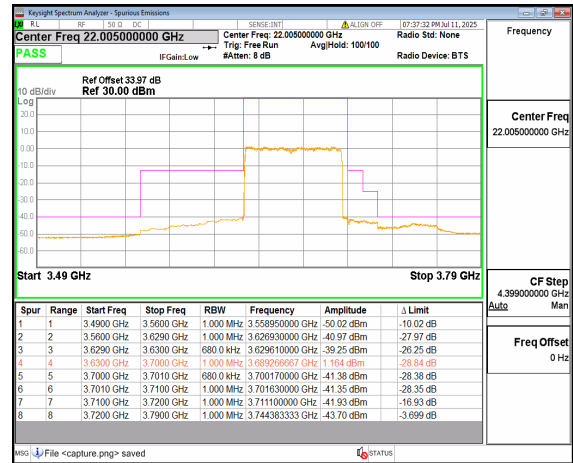
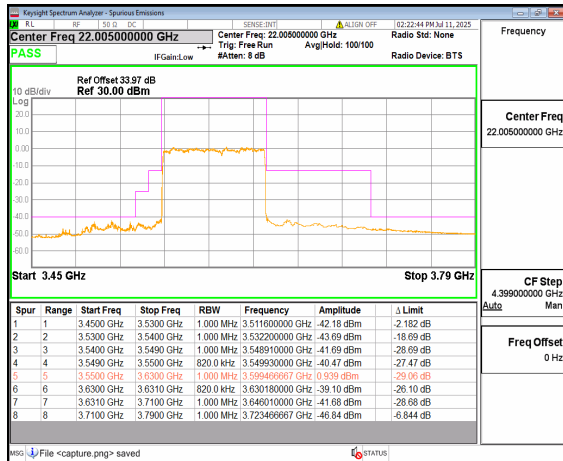
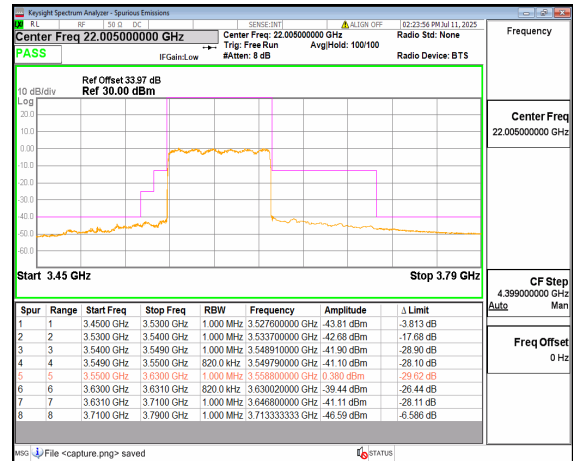
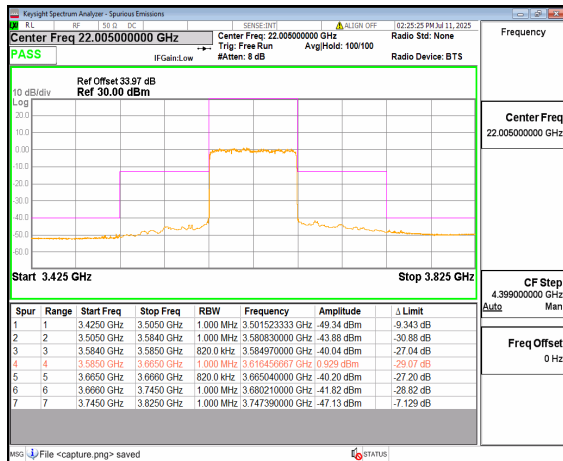
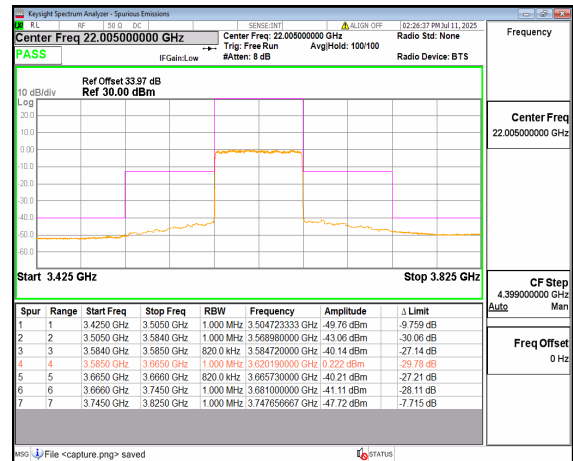
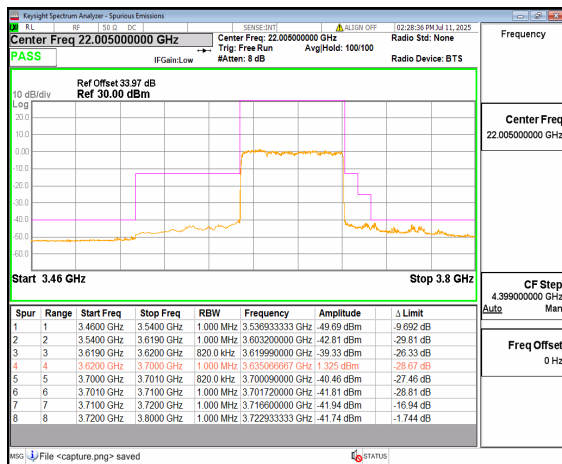
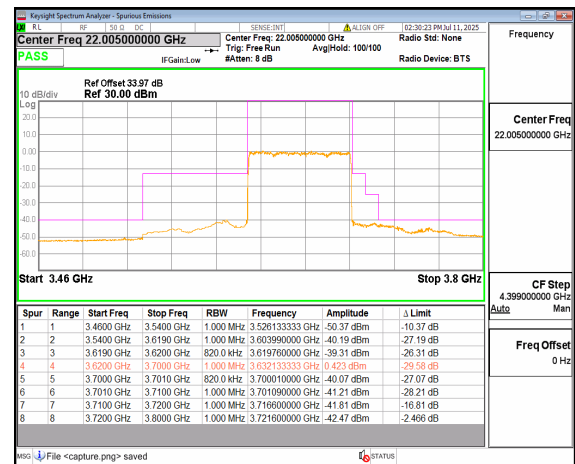


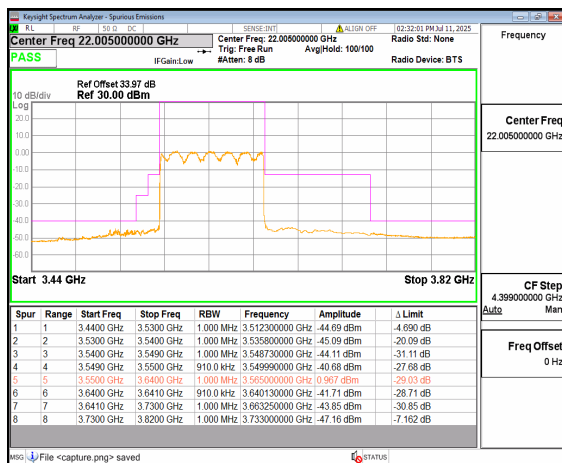
n48 70M DFT-s-OFDM BPSK Outer_Full
Highn48 70M DFT-s-OFDM QPSK Outer_Full
Highn48 80M DFT-s-OFDM BPSK Outer_Full
Lown48 80M DFT-s-OFDM QPSK Outer_Full
Lown48 80M DFT-s-OFDM BPSK Outer_Full
Midn48 80M DFT-s-OFDM QPSK Outer_Full
Mid



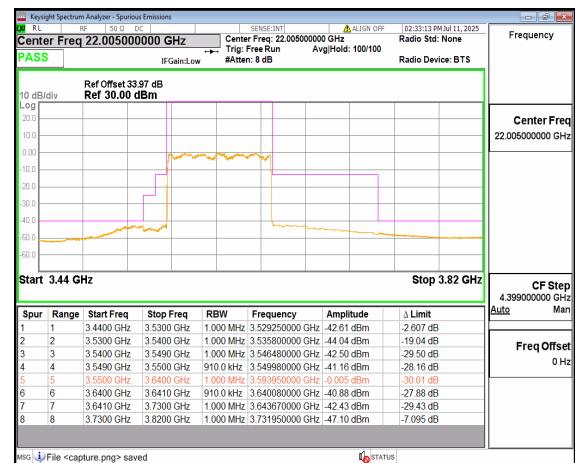
n48 80M DFT-s-OFDM BPSK Outer_Full
High



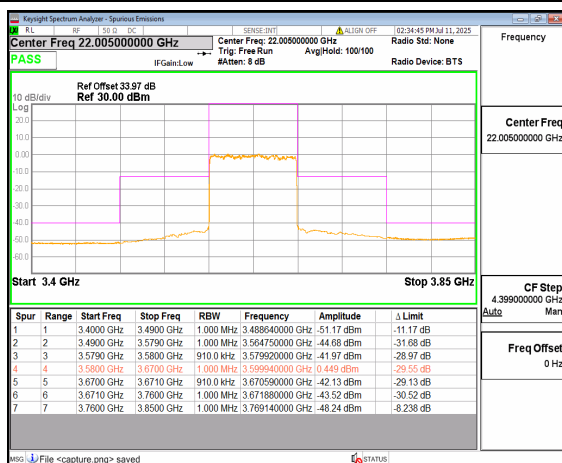
n48 80M DFT-s-OFDM QPSK Outer_Full
High



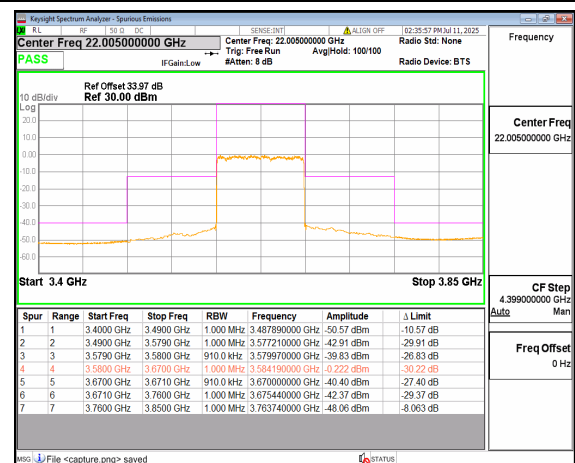
n48 90M DFT-s-OFDM BPSK Outer_Full
Low



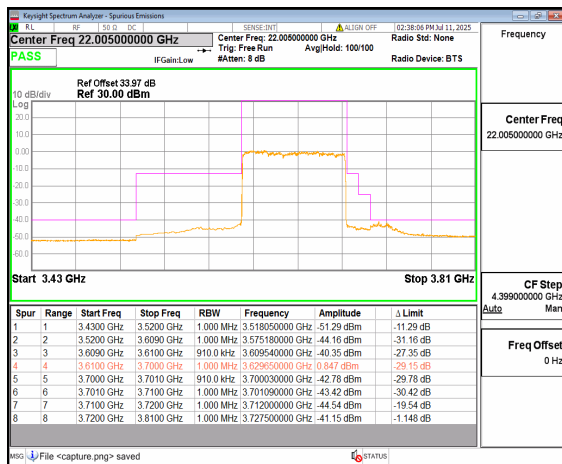
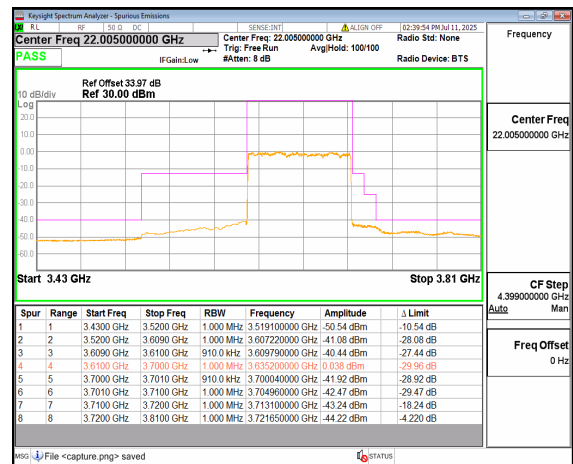
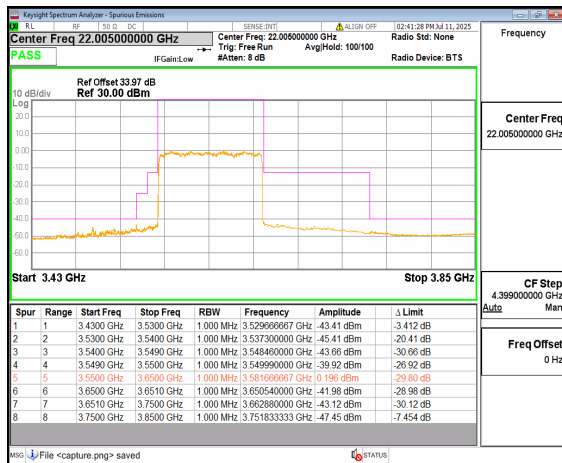
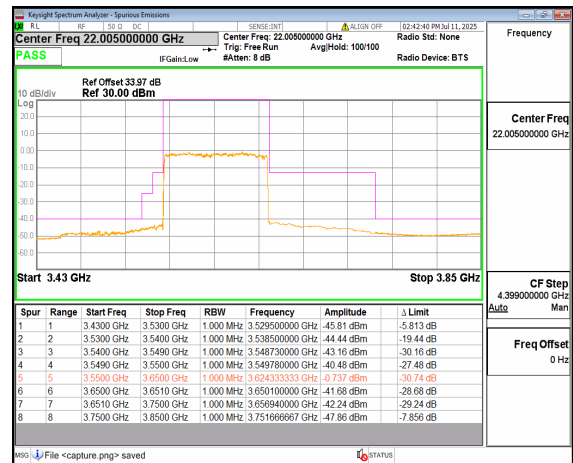
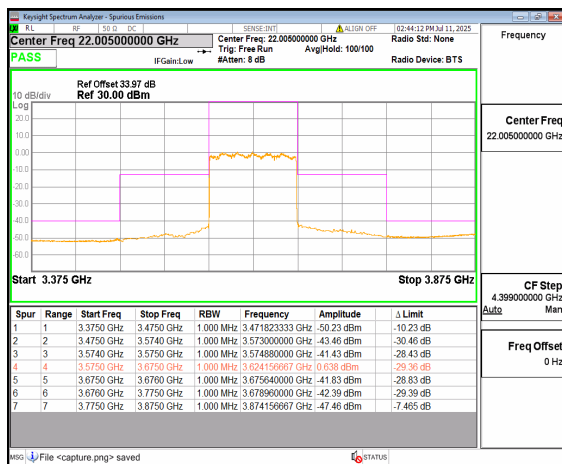
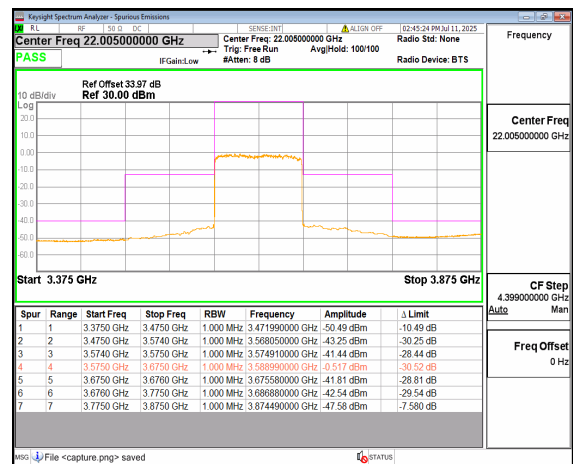
n48 90M DFT-s-OFDM QPSK Outer_Full
Low

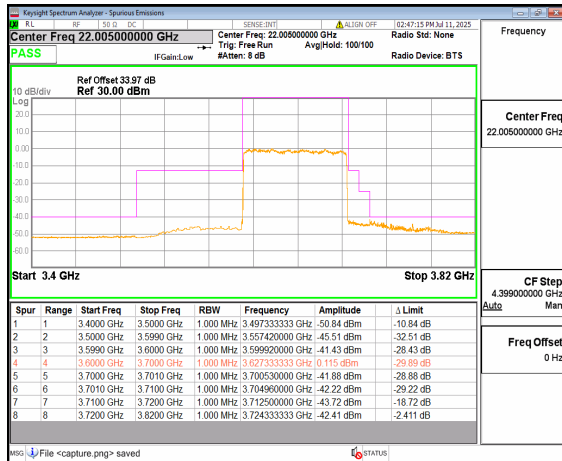


n48 90M DFT-s-OFDM BPSK Outer_Full
Mid

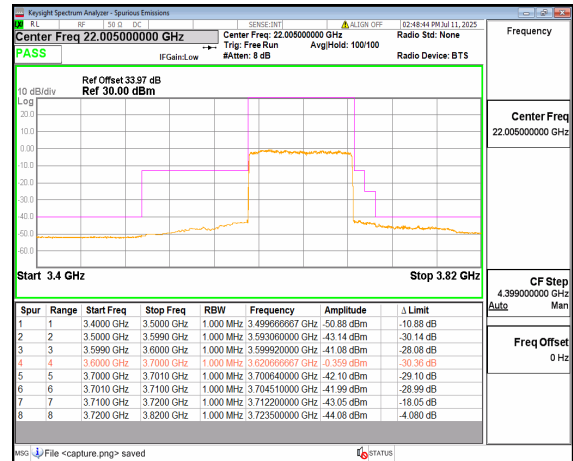


n48 90M DFT-s-OFDM QPSK Outer_Full
Mid

n48 90M DFT-s-OFDM BPSK Outer_Full
Highn48 90M DFT-s-OFDM QPSK Outer_Full
Highn48 100M DFT-s-OFDM BPSK Outer_Full
Lown48 100M DFT-s-OFDM QPSK Outer_Full
Lown48 100M DFT-s-OFDM BPSK Outer_Full
Midn48 100M DFT-s-OFDM QPSK Outer_Full
Mid



n48 100M DFT-s-OFDM BPSK Outer_Full
High



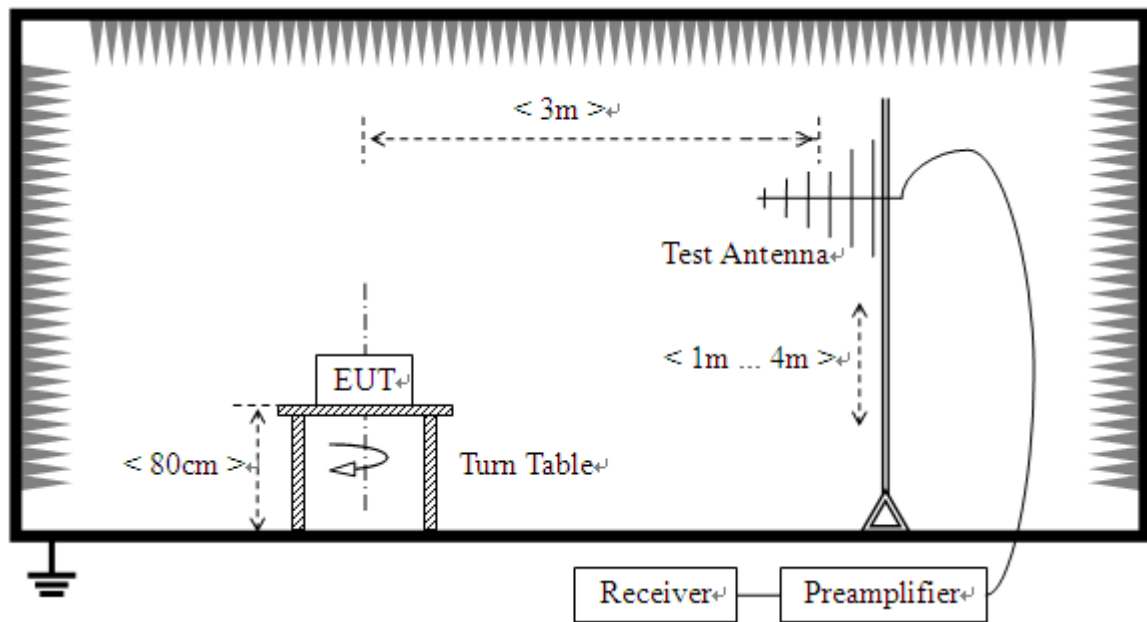
n48 100M DFT-s-OFDM QPSK Outer_Full
High

2.7. Radiated Spurious Emissions

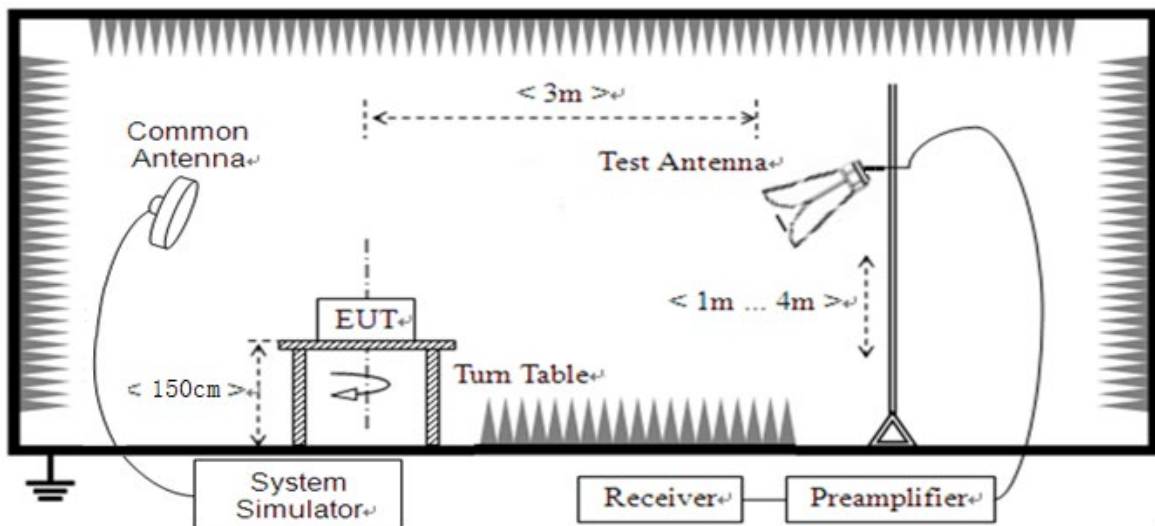
2.7.1. Requirement

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

2.7.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)



The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3.Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.



2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

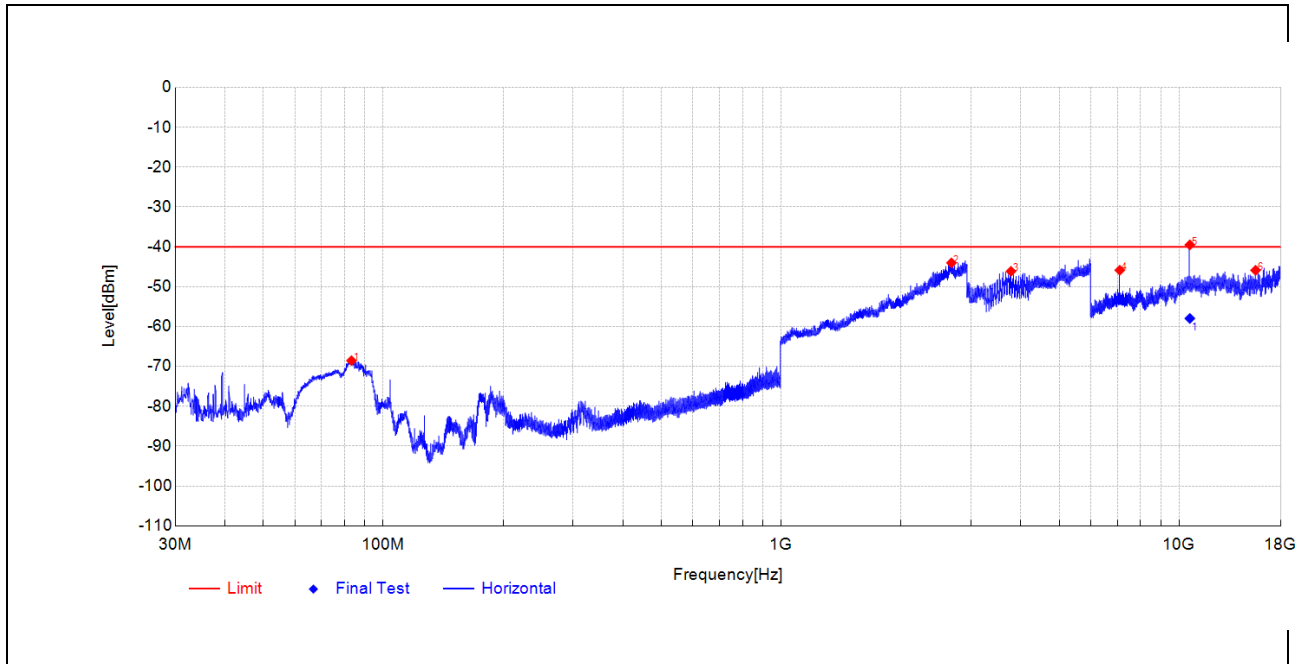
Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

Note5: The amplitude of emissions(18GHz to 10th harmonics) which are attenuated more than 20 dB below the limit are not be reported.

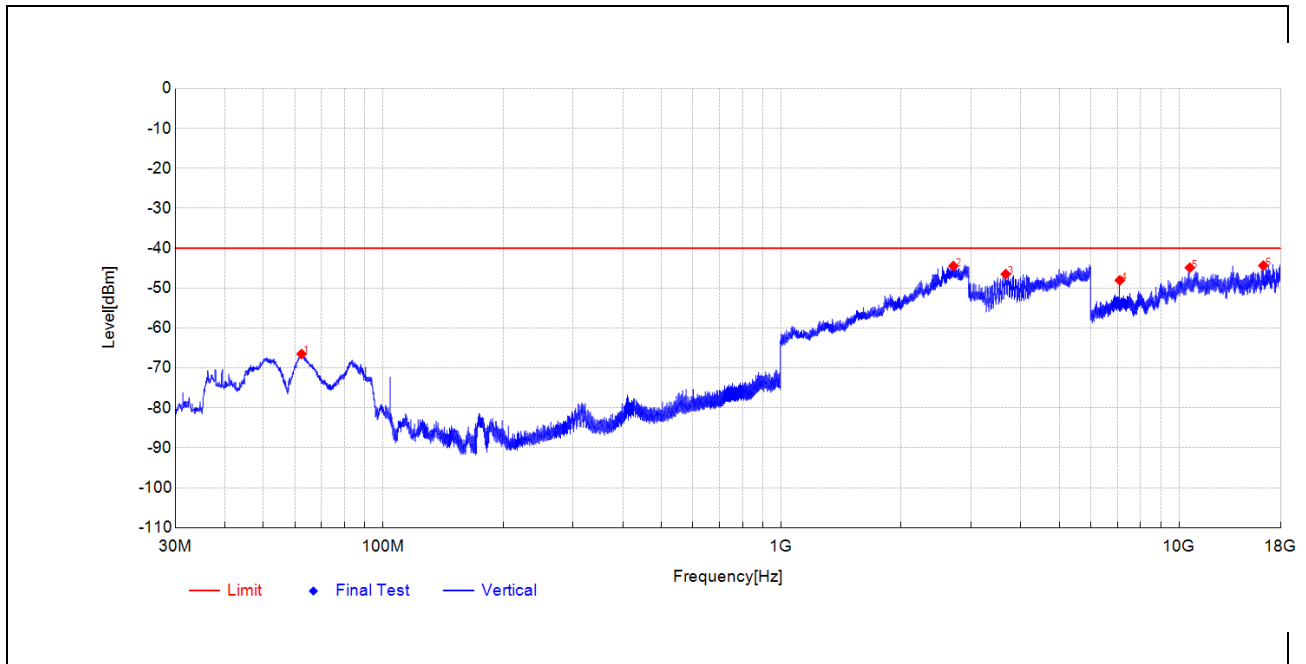
5G SA_n48

Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
83.2072	-44.89	-68.55	-23.7	-40.0	28.6	Horizontal	PK	PASS
2680.7361	-54.51	-44.03	10.5	-40.0	4.0	Horizontal	PK	PASS
3783.9691	-67.38	-46.14	21.2	-40.0	6.1	Horizontal	PK	PASS
7102.5459	-57.80	-45.87	11.9	-40.0	5.9	Horizontal	PK	PASS
10654.193	-58.60	-39.50	19.1	-40.0	-0.5	Horizontal	PK	N/A
15589.899	-70.93	-45.89	25.0	-40.0	5.9	Horizontal	PK	PASS

Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
10654.173	-77.06	-57.96	19.1	-40.00	17.96	Horizontal	RMS	PASS

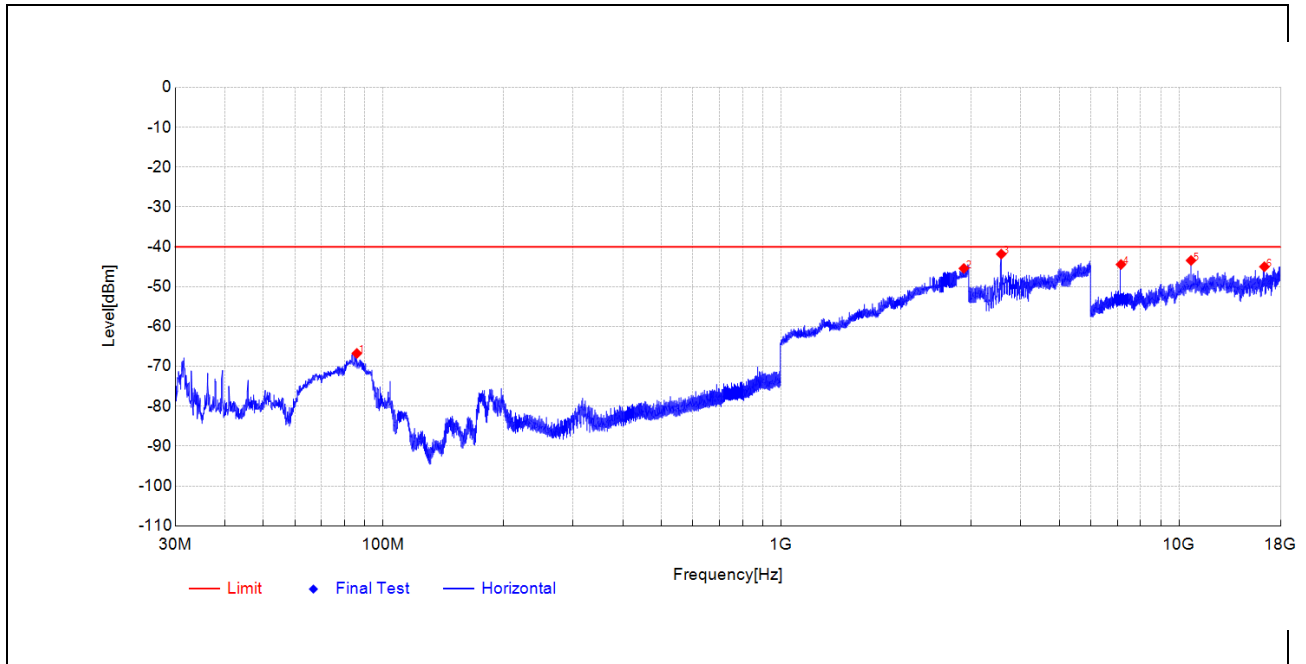


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
62.3511	-47.73	-66.51	-18.8	-40.0	26.5	Vertical	PK	PASS
2710.3421	-54.52	-44.48	10.0	-40.0	4.5	Vertical	PK	PASS
3672.096	-68.05	-46.49	21.6	-40.0	6.5	Vertical	PK	PASS
7102.5459	-58.88	-48.06	10.8	-40.0	8.1	Vertical	PK	PASS
10654.193	-64.61	-44.89	19.7	-40.0	4.9	Vertical	PK	PASS
16298.429	-70.54	-44.36	26.2	-40.0	4.4	Vertical	PK	PASS

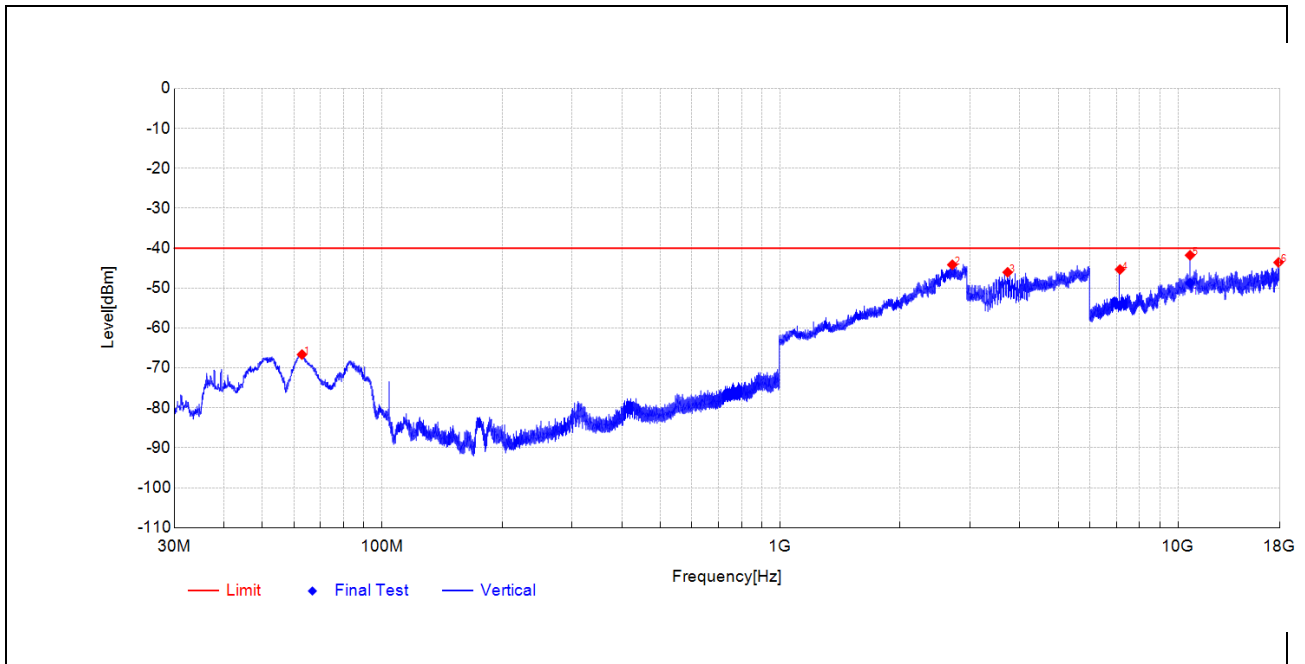


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Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
85.8263	-43.22	-66.74	-23.5	-40.0	26.7	Horizontal	PK	PASS
2880.3761	-56.62	-45.42	11.2	-40.0	5.4	Horizontal	PK	PASS
3576.0823	-63.20	-41.83	21.4	-	-	Horizontal	PK	NA
7152.548	-56.37	-44.43	11.9	-40.0	4.4	Horizontal	PK	PASS
10729.197	-62.63	-43.43	19.2	-40.0	3.4	Horizontal	PK	PASS
16400.933	-70.73	-44.99	25.7	-40.0	5.0	Horizontal	PK	PASS



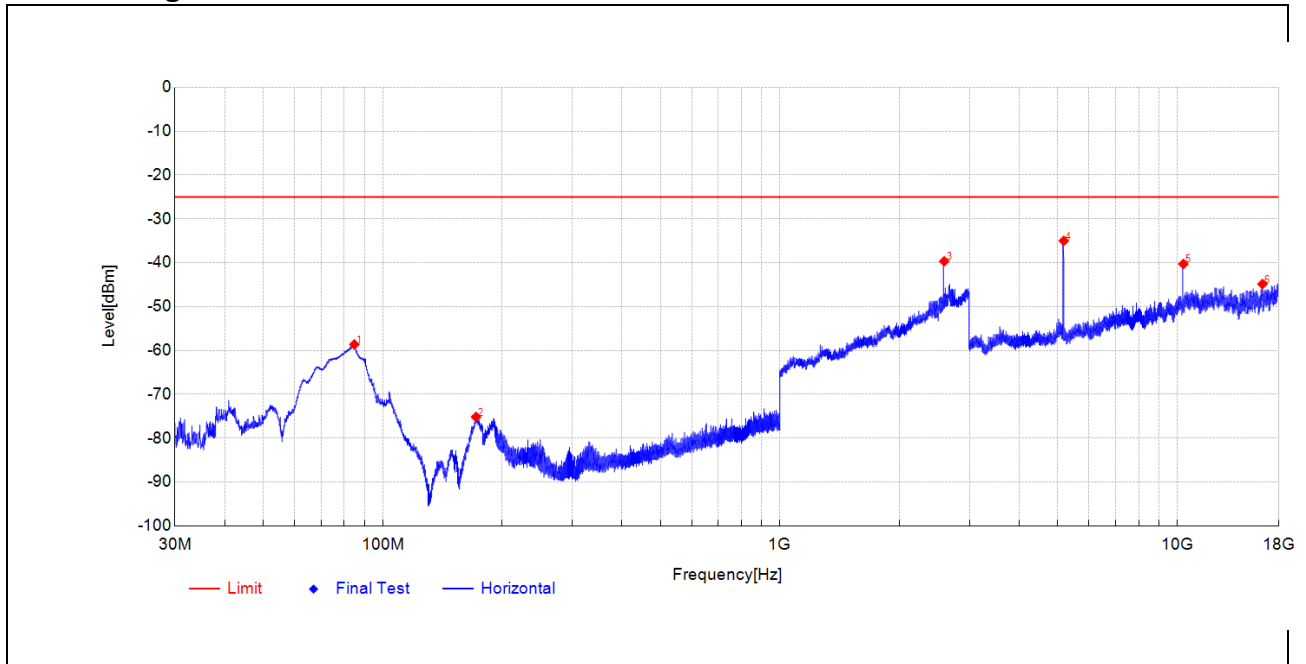
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
62.8361	-47.75	-66.64	-18.9	-40.0	26.6	Vertical	PK	PASS
2709.942	-54.20	-44.16	10.0	-40.0	4.2	Vertical	PK	PASS
3732.5332	-67.50	-46.04	21.5	-40.0	6.0	Vertical	PK	PASS
7152.548	-56.40	-45.34	11.1	-40.0	5.3	Vertical	PK	PASS
10729.197	-61.45	-41.78	19.7	-40.0	1.8	Vertical	PK	PASS
17908.496	-68.12	-43.57	24.6	-40.0	3.6	Vertical	PK	PASS

Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
10729.136	-68.39	-48.72	19.7	-40.00	8.72	Vertical	RMS	PASS



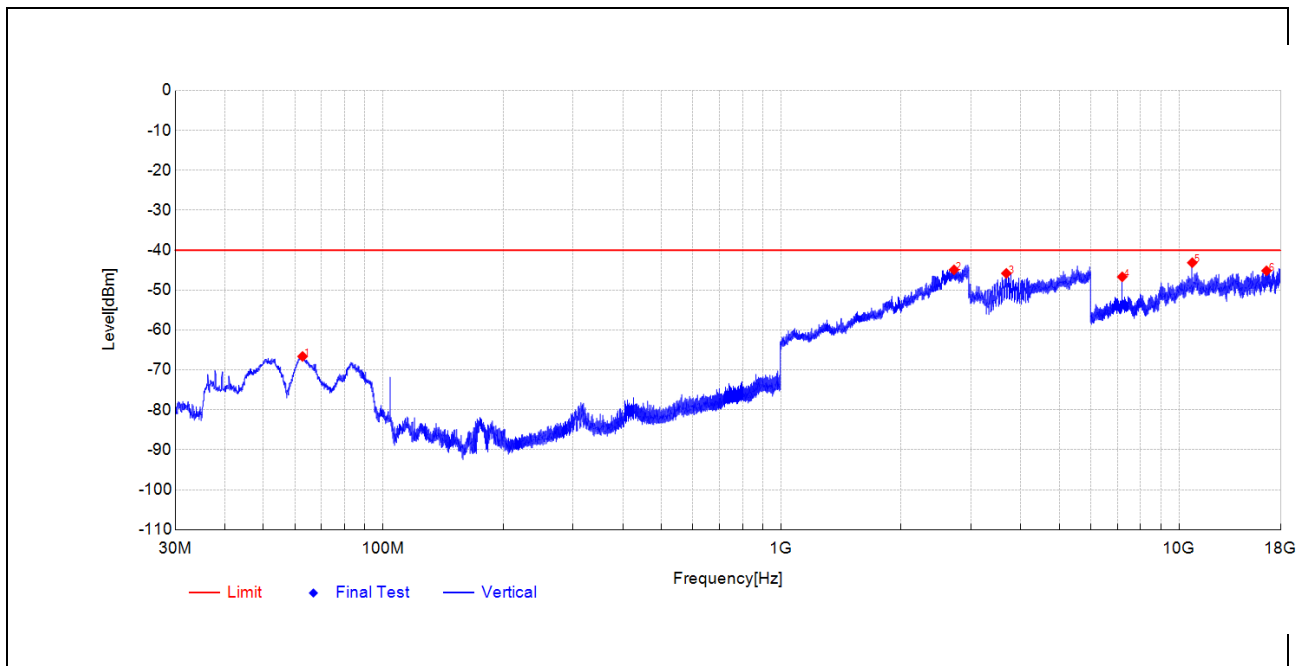
5G SA_n48

Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
85.2443	-44.83	-68.38	-23.6	-40.0	28.4	Horizontal	PK	PASS
2669.934	-54.32	-43.84	10.5	-40.0	3.8	Horizontal	PK	PASS
3601.3716	-60.89	-39.50	21.4	-	-	Horizontal	PK	NA
5186.0266	-68.65	-43.74	24.9	-40.0	3.7	Horizontal	PK	PASS
7202.0501	-54.66	-42.70	12.0	-40.0	2.7	Horizontal	PK	PASS
13106.796	-69.55	-45.52	24.0	-40.0	5.5	Horizontal	PK	PASS

Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
7202.5906	-66.93	-54.97	12.0	-40.00	14.97	Horizontal	RMS	PASS

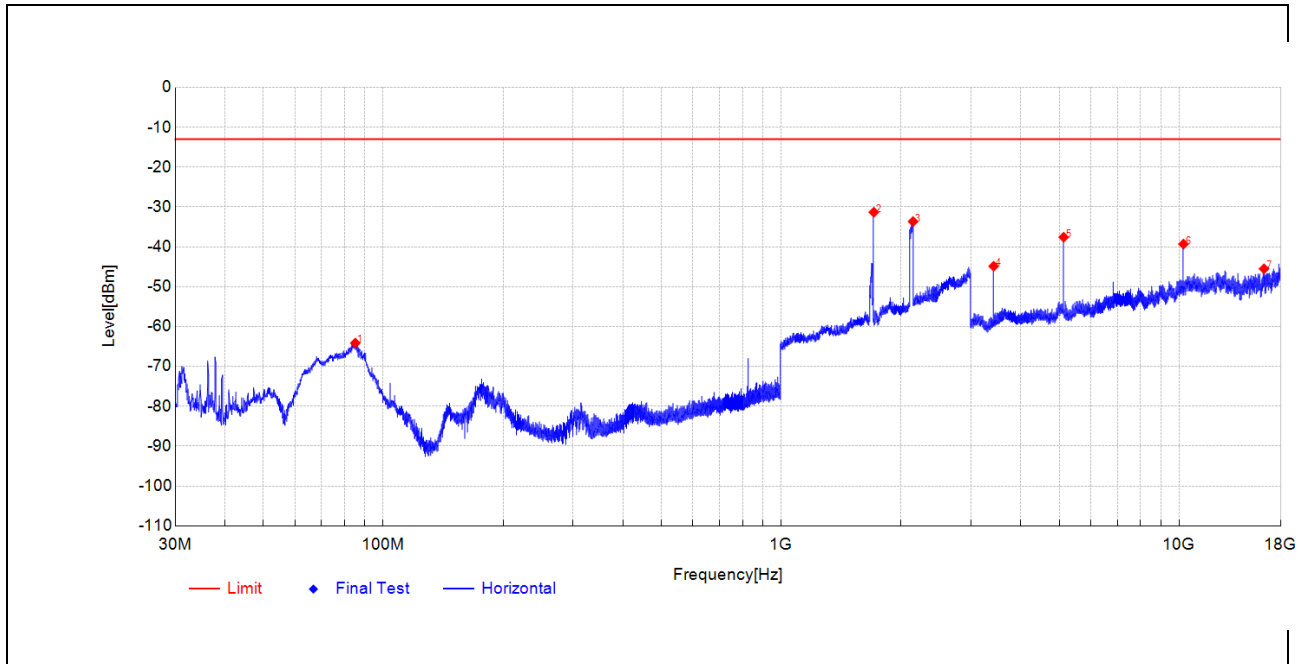


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
62.6906	-47.76	-66.62	-18.9	-40.0	26.6	Vertical	PK	PASS
2721.1442	-54.89	-44.91	10.0	-40.0	4.9	Vertical	PK	PASS
3683.6691	-67.42	-45.81	21.6	-40.0	5.8	Vertical	PK	PASS
7203.0501	-57.98	-46.68	11.3	-40.0	6.7	Vertical	PK	PASS
10803.700	-63.48	-43.13	20.4	-40.0	3.1	Vertical	PK	PASS
16604.941	-71.09	-45.17	25.9	-40.0	5.2	Vertical	PK	PASS

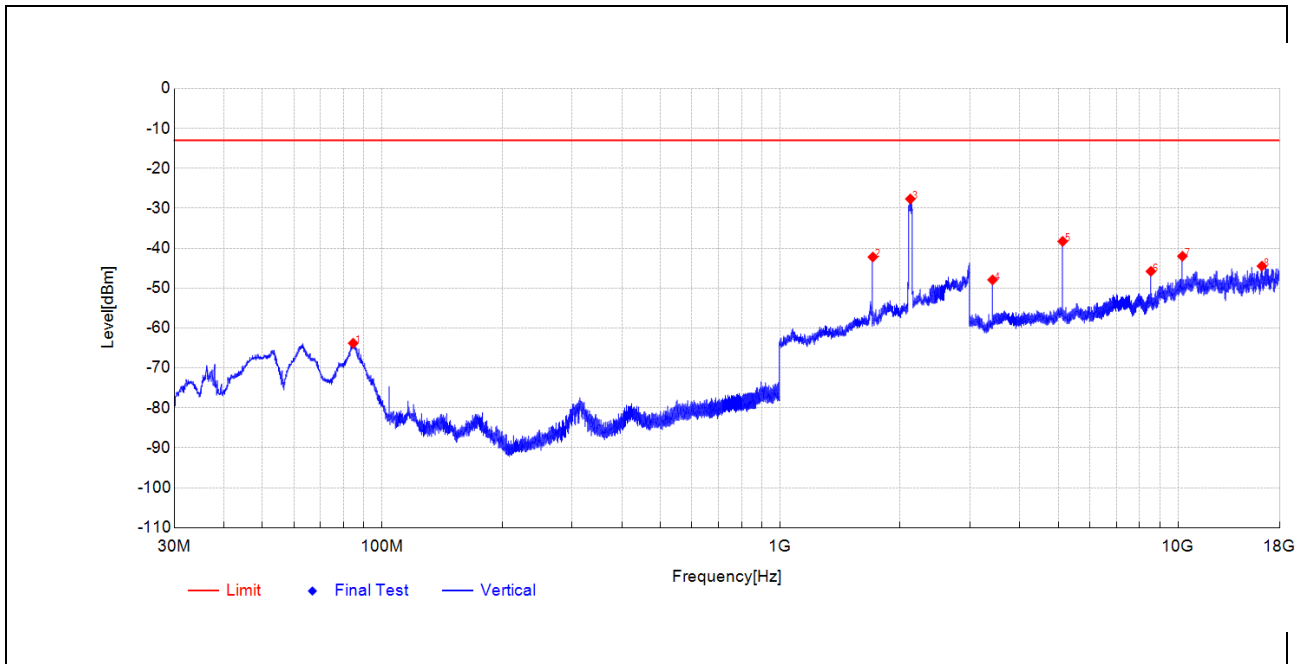


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Plot for Low Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
85.0988	-40.54	-64.14	-23.6	-13.0	51.1	Horizontal	PK	PASS
1710.5421	-34.66	-31.32	3.3	-	-	Horizontal	PK	NA
2146.6293	-39.68	-33.65	6.0	-	-	Horizontal	PK	NA
3422.2032	-45.26	-44.86	0.4	-13.0	31.9	Horizontal	PK	PASS
5133.3048	-43.33	-37.58	5.8	-13.0	24.6	Horizontal	PK	PASS
10264.970	-58.06	-39.31	18.8	-13.0	26.3	Horizontal	PK	PASS
16371.294	-70.84	-45.51	25.3	-13.0	32.5	Horizontal	PK	PASS

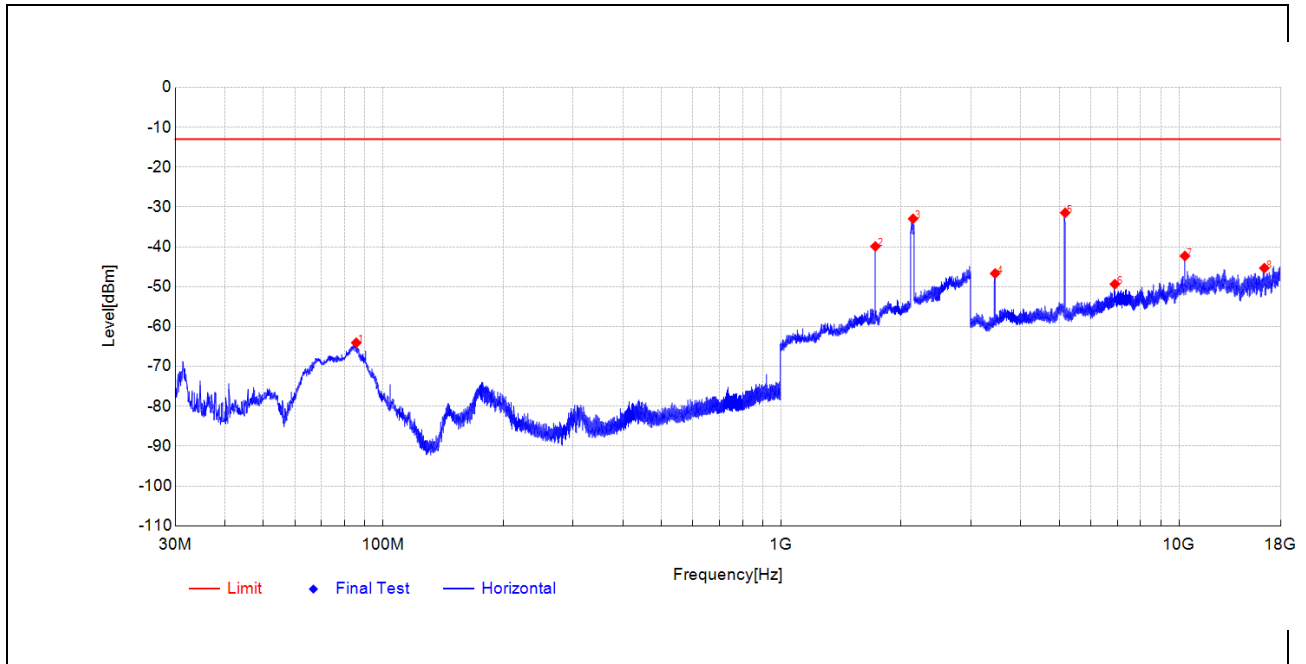


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
84.5167	-41.00	-63.80	-22.8	-13.0	50.8	Vertical	PK	PASS
1710.9422	-45.69	-42.21	3.5	-	-	Vertical	PK	NA
2125.4251	-33.59	-27.67	5.9	-	-	Vertical	PK	NA
3421.3459	-48.48	-47.94	0.5	-13.0	34.9	Vertical	PK	PASS
5132.4475	-43.58	-38.30	5.3	-13.0	25.3	Vertical	PK	PASS
8554.1822	-59.51	-45.81	13.7	-13.0	32.8	Vertical	PK	PASS
10265.450	-61.11	-42.01	19.1	-13.0	29.0	Vertical	PK	PASS
16262.810	-70.72	-44.48	26.2	-13.0	31.5	Vertical	PK	PASS

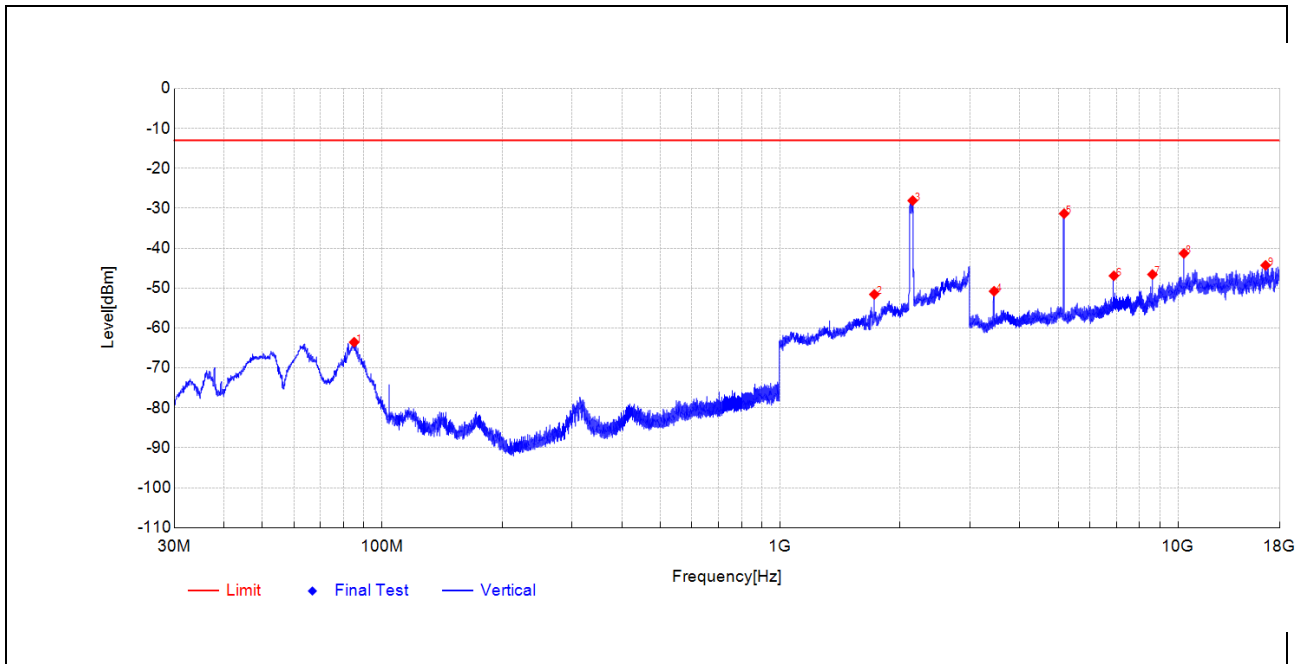


5G SA_n66

Plot for Mid Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
85.5353	-40.49	-64.07	-23.6	-13.0	51.1	Horizontal	PK	PASS
1725.7451	-43.01	-39.89	3.1	-	-	Horizontal	PK	NA
2147.0294	-38.99	-32.96	6.0	-	-	Horizontal	PK	NA
3451.3502	-47.32	-46.68	0.6	-13.0	33.7	Horizontal	PK	PASS
5177.0253	-36.81	-31.47	5.3	-13.0	18.5	Horizontal	PK	PASS
6903.8762	-60.93	-49.37	11.6	-13.0	36.4	Horizontal	PK	PASS
10354.734	-61.11	-42.30	18.8	-13.0	29.3	Horizontal	PK	PASS
16398.175	-71.08	-45.34	25.7	-13.0	32.3	Horizontal	PK	PASS



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
85.0018	-40.81	-63.56	-22.8	-13.0	50.6	Vertical	PK	PASS
1725.7451	-54.99	-51.57	3.4	-	-	Vertical	PK	NA
2154.2308	-33.75	-28.08	5.7	-	-	Vertical	PK	NA
3451.3502	-51.62	-50.79	0.8	-13.0	37.8	Vertical	PK	PASS
5177.4539	-36.38	-31.35	5.0	-13.0	18.4	Vertical	PK	PASS
6902.9161	-57.77	-46.92	10.9	-13.0	33.9	Vertical	PK	PASS
8629.5452	-60.66	-46.59	14.1	-13.0	33.6	Vertical	PK	PASS
10355.214	-60.35	-41.32	19.0	-13.0	28.3	Vertical	PK	PASS
16614.184	-70.18	-44.30	25.9	-13.0	31.3	Vertical	PK	PASS

2.8. End User Device Additional Requirements (CBSD Protocol)

2.8.1. Requirement

According to FCC section Part 96.47,

- (a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.
- (b) Any device operated at higher power than specified for End User Devices in Part 96.41 will be classified as, and subject to, the operational requirements of a CBSD.

2.8.2. Test Description

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSD (Kingsignal LBS7320 FCC ID: 2AVFNLBS7320) as a companion device to show compliance with Part 96.47. End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

2.8.3. Test Procedure

KDB 940660 D01 Part 96 CBRS Eqpt v02.

2.8.4. Test Result

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer
Test Graph 1:

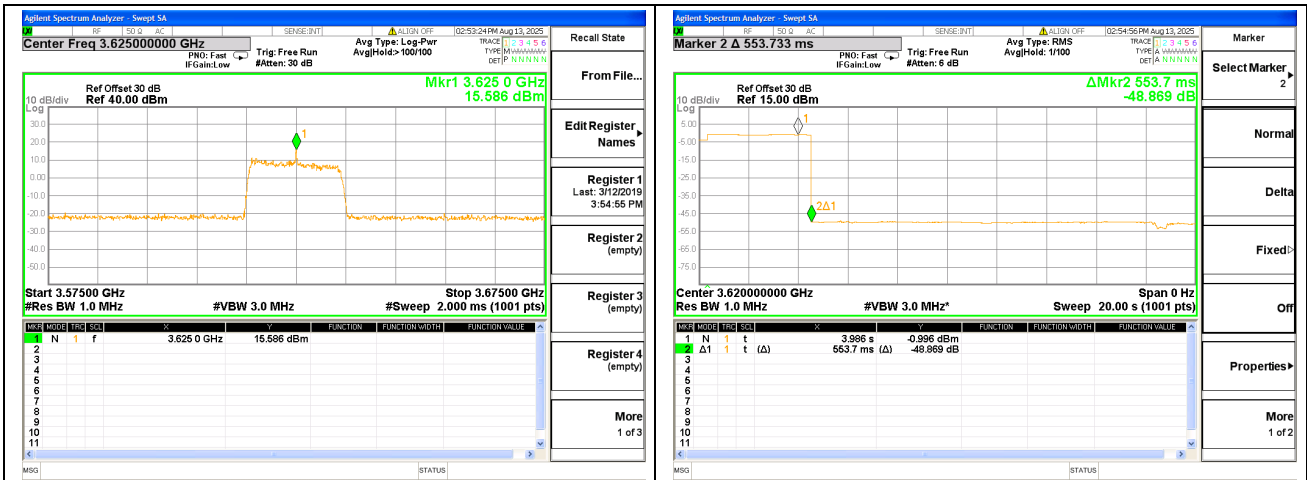
- a. Setup frequency with 3610MHz - 3630MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.

Test Graph 2:

- a. Setup frequency with 3660MHz - 3680MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s



Test Graph 1

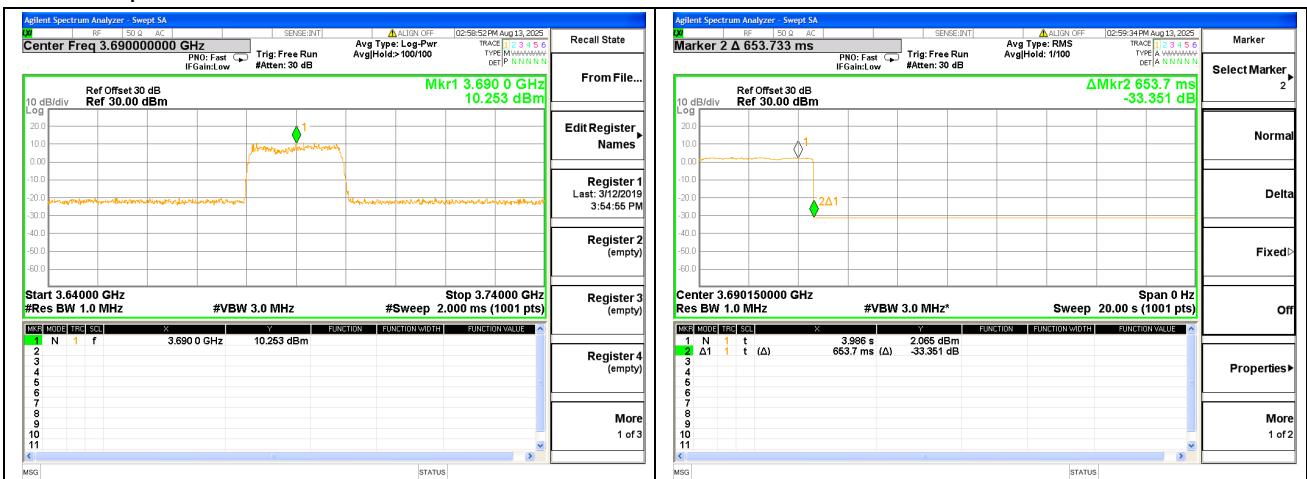


Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation

Test Graph 2



Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	N/A	N/A
Directional Coupler (10-67GHz)	N/A	110067016	KRYTAR	N/A	N/A
Attenuator	N/A	20dB	Resnet	N/A	N/A
Attenuator (DC-40GHz)	N/A	10dB	RFTOP	N/A	N/A
EXA Signal Analyzer	MY54170556	N9030A	Keysight	2024.09.18	2025.09.17
System Simulator	6262012906	MT8000A	Anritsu	2025.05.16	2026.05.15
System Simulator	6261830572	MT8821C	Anritsu	2025.01.06	2026.01.05
System Simulator	MY58300665	E7515B	Anritsu	2024.09.18	2025.09.17
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
RF cable (DC-40GHz)	N/A	NYK360	Qualwave	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	S02217710100089001	KMT-36LF1A0	KOMEG	2024.09.18	2025.09.17
Computer	T430i	Think Pad	Lenovo	N/A	N/A
Test system	N/A	WCS FCC V22.02.041801	CeSheng	N/A	N/A



**4.3 Radiated Test Equipment**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Loop Antenna	00131	FMZB 1519B	SCHWARZB ECK	2024/9/19	2025/9/18
Bi-Log Antenna	9163-274	VULB 9163	SCHWARZB ECK	2025/6/28	2026/6/27
Horn Antenna	9120D-963	BBHA 9120D	SCHWARZB ECK	2025/5/16	2026/5/15
Horn Antenna	BBHA9170# 773	BBHA9170	SCHWARZB ECK	2025/6/20	2026/6/19
Receiver	MY5640009 3	N9038A	KEYSIGHT	2025/1/6	2026/1/5
Signal Analyzer	MY5606014 5	N9020A	Agilent	2025/5/13	2026/5/12
6db Attenuator	E191001	BW-N6W5+	Mini-circuits	2024/9/11	2025/9/10
Preamplifier (2GHz-18GHz)	61171/6117 2	S020180L3 203	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier (10MHz-6GHz)	46732	S10M100L3 802	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118 -40C-S	Decentest	2025/5/13	2026/5/12
System Simulator	152038	CMW500	R&S	2024/9/11	2025/9/10
System Simulator	MY4836417 6	8960-E5515 C	Agilent	2025/1/15	2026/1/14
System Simulator	6262148249	MT8000A	anritsu	2025/5/16	2026/5/15
System Simulator	6261830572	MT8821C	anritsu	2025/1/6	2026/1/5
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025/5/13	2026/5/12





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RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025/5/13	2026/5/12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025/5/13	2026/5/12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024/9/11	2025/9/10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024/9/11	2025/9/10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18- NN-5	Qualwave	2024/9/11	2025/9/10

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