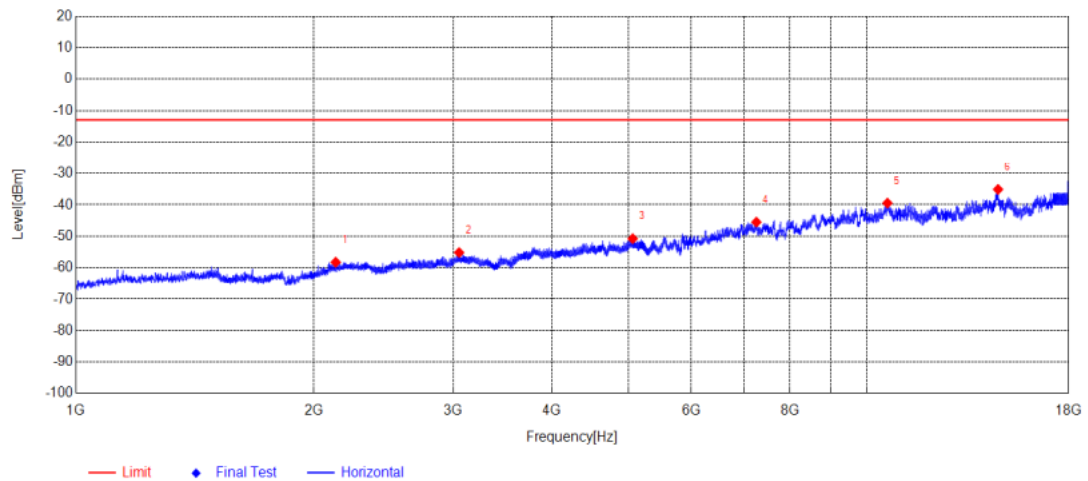
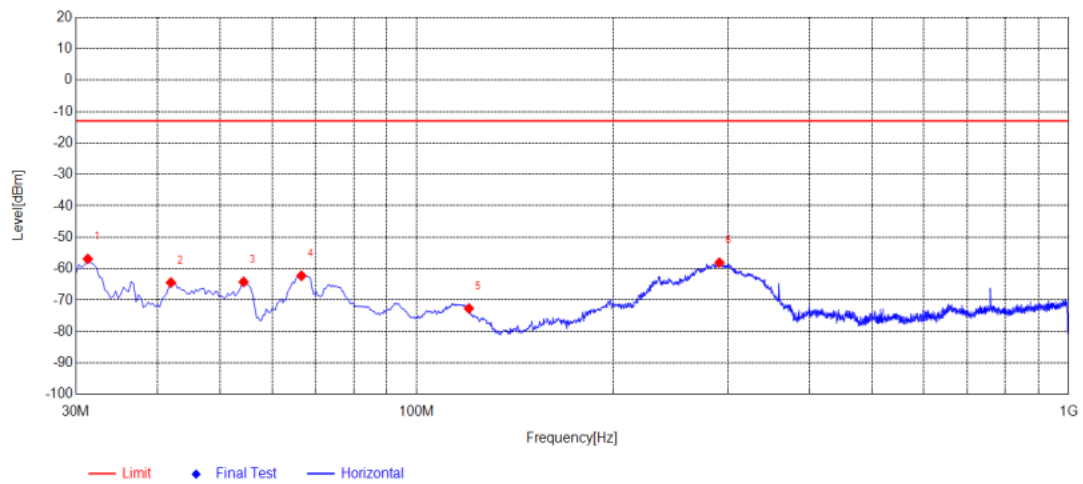


PIFA Antenna ANT 4:



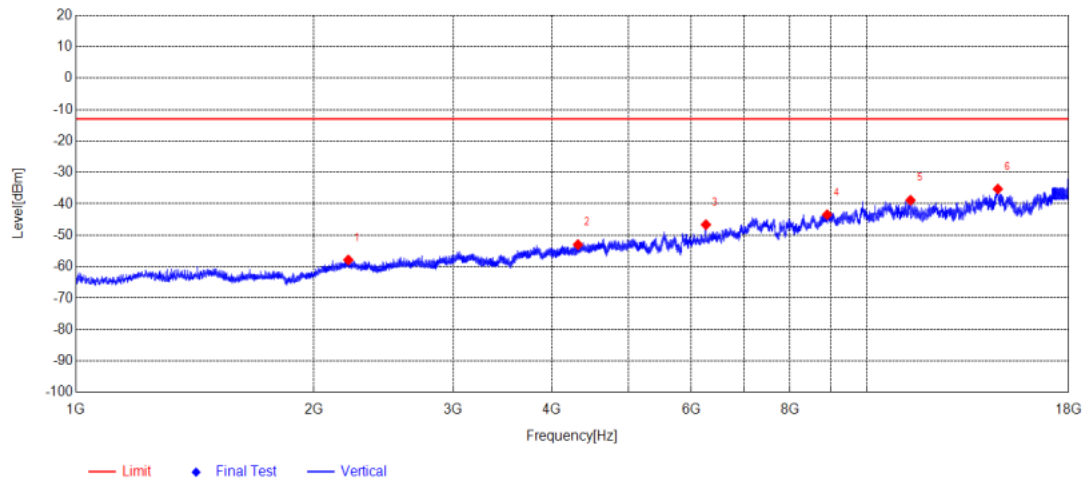
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2131.11	-48.47	-58.26	-13.00	45.26	-9.79	Horizontal
2	3052.20	-48.46	-55.19	-13.00	42.19	-6.73	Horizontal
3	5058.90	-50.49	-50.77	-13.00	37.77	-0.28	Horizontal
4	7252.92	-52.89	-45.49	-13.00	32.49	7.40	Horizontal
5	10621.6	-53.97	-39.45	-13.00	26.45	14.52	Horizontal
6	14656.4	-55.71	-35.1	-13.00	22.10	20.61	Horizontal

B66_N5 166800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz H 1G-18G



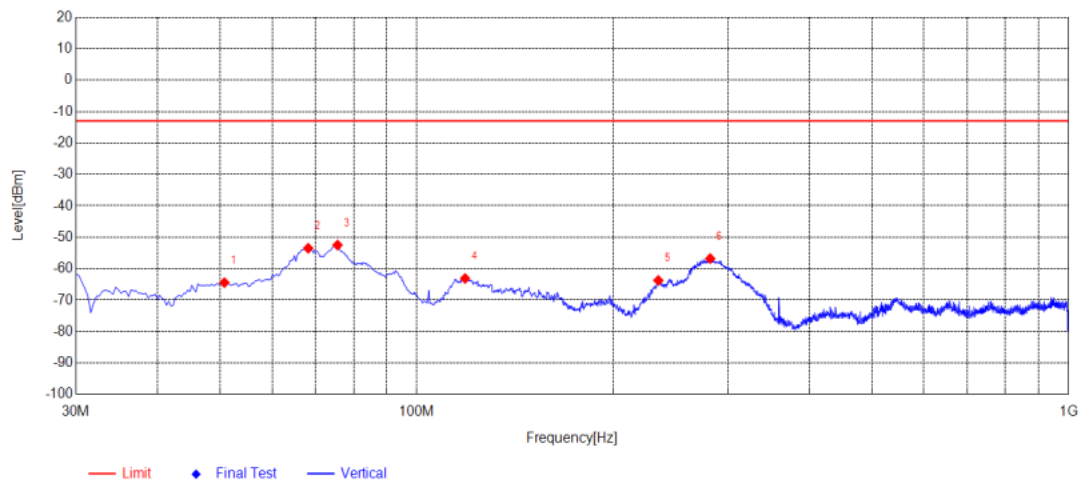
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.2938	-48.13	-56.9	-13.00	43.90	-8.77	Horizontal
2	41.9673	-59.54	-64.41	-13.00	51.41	-4.87	Horizontal
3	54.2581	-57.60	-64.2	-13.00	51.20	-6.60	Horizontal
4	66.5489	-50.21	-62.25	-13.00	49.25	-12.04	Horizontal
5	120.240	-55.50	-72.65	-13.00	59.65	-17.15	Horizontal
6	291.340	-45.84	-58.08	-13.00	45.08	-12.24	Horizontal

B66_N5 166800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz H 30M-1G



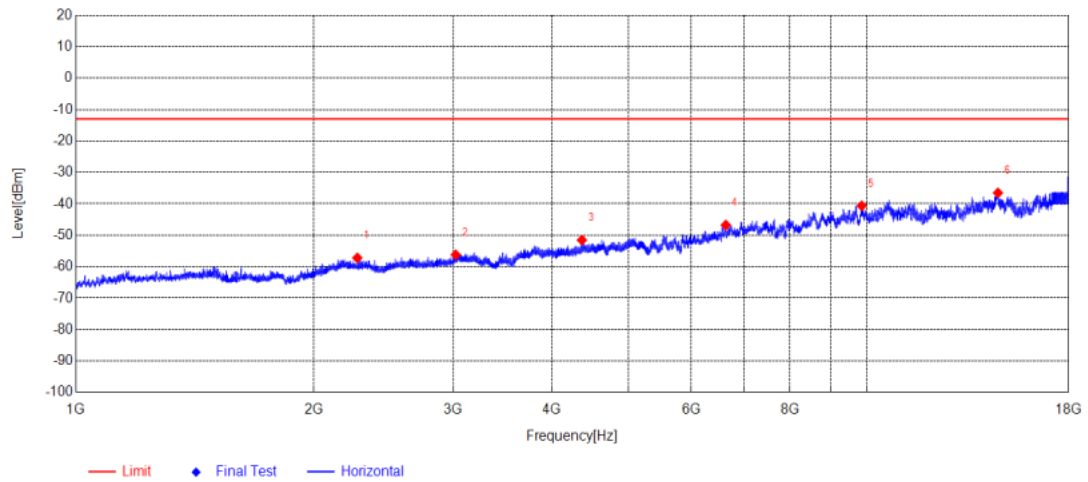
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2210.62	-48.90	-57.86	-13.00	44.86	-8.96	Vertical
2	4313.83	-49.48	-52.98	-13.00	39.98	-3.50	Vertical
3	6261.62	-48.97	-46.63	-13.00	33.63	2.34	Vertical
4	8911.49	-53.74	-43.45	-13.00	30.45	10.29	Vertical
5	11359.7	-54.03	-38.85	-13.00	25.85	15.18	Vertical
6	14648.0	-56.81	-35.28	-13.00	22.28	21.53	Vertical

B66_N5 166800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz V 1G-18G



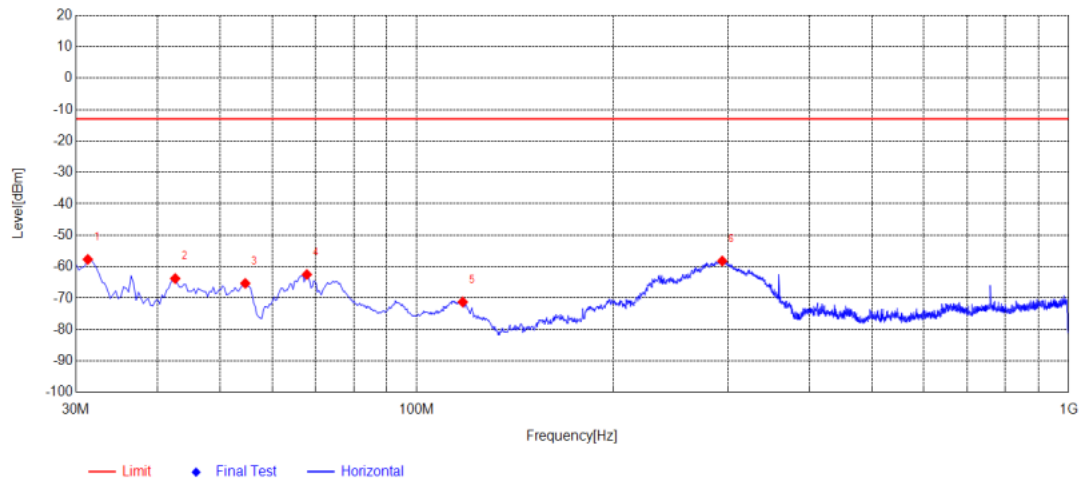
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	50.7002	-51.14	-64.43	-13.00	51.43	-13.29	Vertical
2	68.1661	-37.34	-53.49	-13.00	40.49	-16.15	Vertical
3	75.6052	-35.03	-52.48	-13.00	39.48	-17.45	Vertical
4	118.622	-48.77	-63.11	-13.00	50.11	-14.34	Vertical
5	234.738	-48.28	-63.74	-13.00	50.74	-15.46	Vertical
6	281.960	-43.91	-56.79	-13.00	43.79	-12.88	Vertical

B66_N5 166800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz V 30M-1G



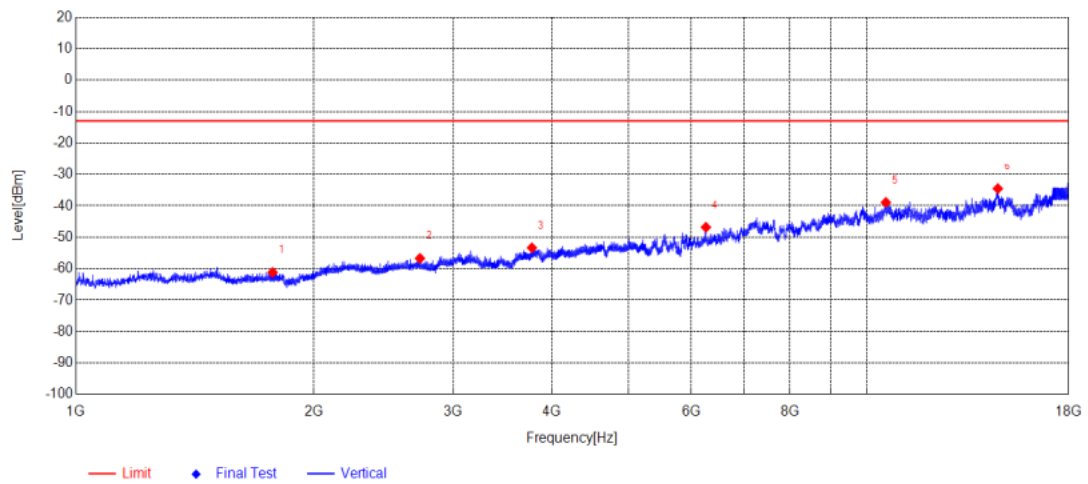
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2269.12	-47.80	-57.2	-13.00	44.20	-9.40	Horizontal
2	3022.20	-48.90	-56.22	-13.00	43.22	-7.32	Horizontal
3	4363.83	-48.28	-51.53	-13.00	38.53	-3.25	Horizontal
4	6634.86	-51.81	-46.76	-13.00	33.76	5.05	Horizontal
5	9853.58	-54.82	-40.63	-13.00	27.63	14.19	Horizontal
6	14652.8	-57.26	-36.53	-13.00	23.53	20.73	Horizontal

B66_N5 167300 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz H 1G-18G



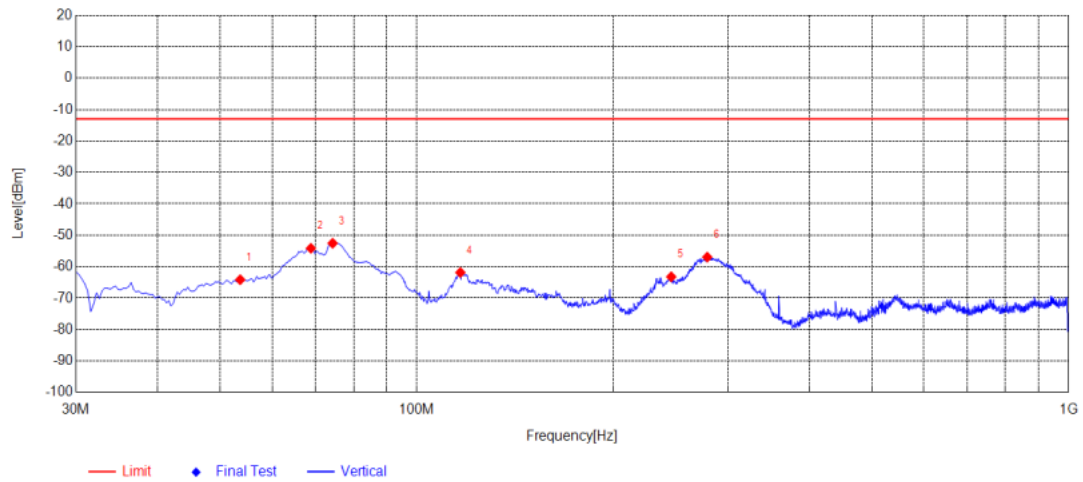
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.2938	-48.92	-57.69	-13.00	44.69	-8.77	Horizontal
2	42.6142	-58.88	-63.78	-13.00	50.78	-4.90	Horizontal
3	54.5815	-58.58	-65.31	-13.00	52.31	-6.73	Horizontal
4	67.8426	-49.72	-62.48	-13.00	49.48	-12.76	Horizontal
5	117.652	-54.21	-71.23	-13.00	58.23	-17.02	Horizontal
6	294.251	-45.94	-58.19	-13.00	45.19	-12.25	Horizontal

B66_N5 167300 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz H 30M-1G



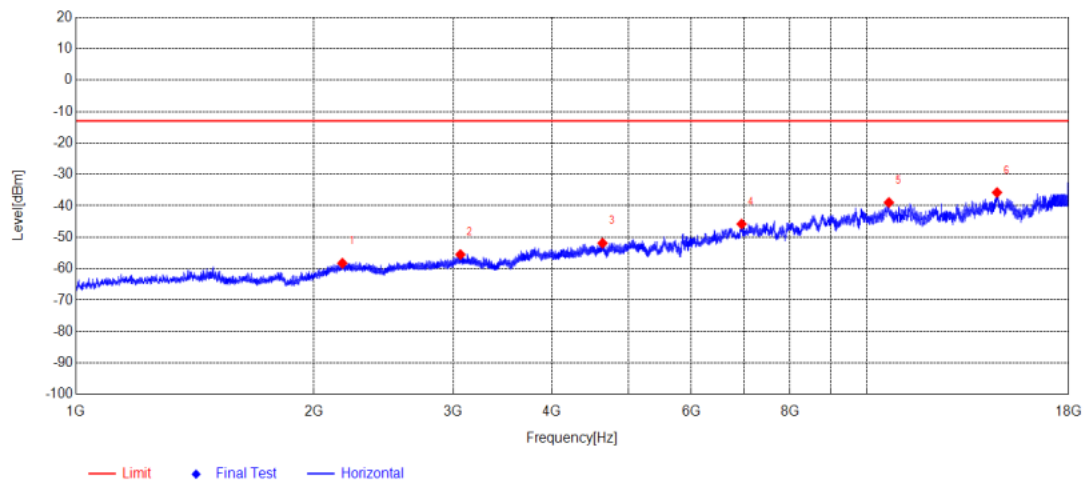
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1773.57	-48.38	-61.18	-13.00	48.18	-12.80	Vertical
2	2723.17	-48.01	-56.71	-13.00	43.71	-8.70	Vertical
3	3772.77	-47.81	-53.34	-13.00	40.34	-5.53	Vertical
4	6261.62	-49.16	-46.82	-13.00	33.82	2.34	Vertical
5	10572.4	-53.58	-38.91	-13.00	25.91	14.67	Vertical
6	14648.0	-56.06	-34.53	-13.00	21.53	21.53	Vertical

B66_N5 167300 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz V 1G-18G



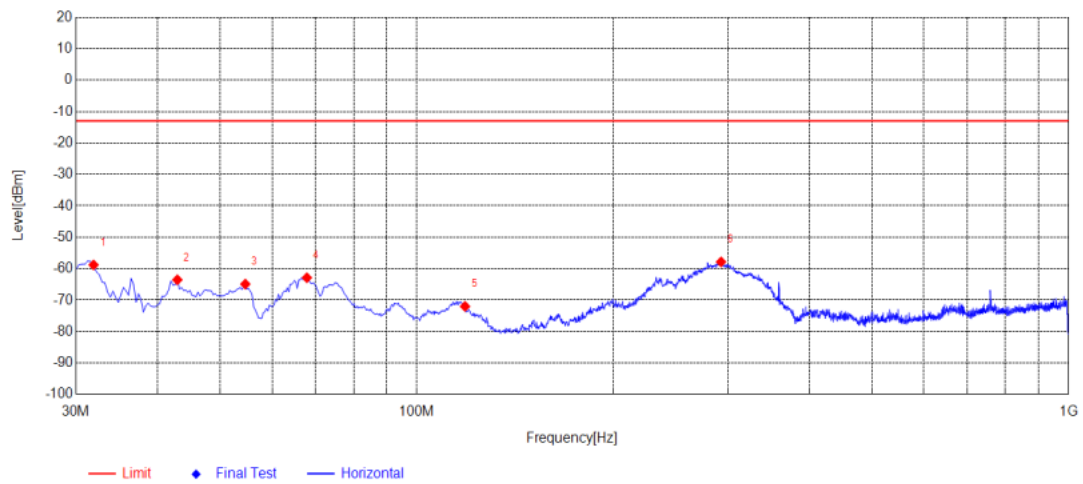
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	53.6112	-49.90	-64.14	-13.00	51.14	-14.24	Vertical
2	68.8129	-37.98	-54.16	-13.00	41.16	-16.18	Vertical
3	74.3114	-35.41	-52.55	-13.00	39.55	-17.14	Vertical
4	116.682	-47.30	-61.85	-13.00	48.85	-14.55	Vertical
5	245.735	-48.41	-63.22	-13.00	50.22	-14.81	Vertical
6	279.049	-43.90	-56.96	-13.00	43.96	-13.06	Vertical

B66_N5 167300 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz V 30M-1G



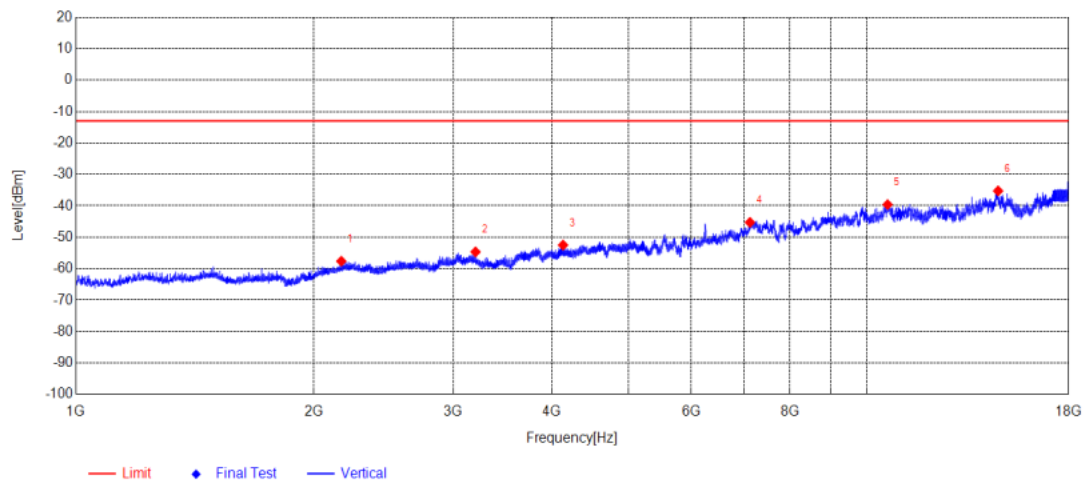
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2172.61	-49.05	-58.25	-13.00	45.25	-9.20	Horizontal
2	3063.70	-48.74	-55.51	-13.00	42.51	-6.77	Horizontal
3	4634.36	-49.57	-51.88	-13.00	38.88	-2.31	Horizontal
4	6946.89	-52.26	-45.78	-13.00	32.78	6.48	Horizontal
5	10666.0	-54.06	-38.95	-13.00	25.95	15.11	Horizontal
6	14613.2	-55.71	-35.77	-13.00	22.77	19.94	Horizontal

B66_N5 167800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz H 1G-18G



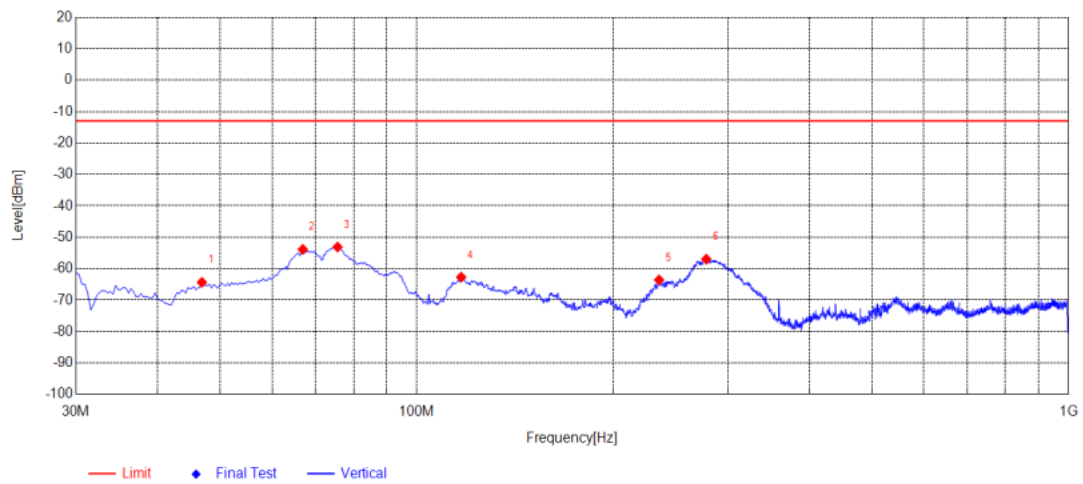
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.9406	-50.32	-58.8	-13.00	45.80	-8.48	Horizontal
2	42.9376	-58.62	-63.53	-13.00	50.53	-4.91	Horizontal
3	54.5815	-58.17	-64.9	-13.00	51.90	-6.73	Horizontal
4	67.8426	-50.11	-62.87	-13.00	49.87	-12.76	Horizontal
5	118.622	-54.94	-71.99	-13.00	58.99	-17.05	Horizontal
6	292.957	-45.60	-57.84	-13.00	44.84	-12.24	Horizontal

B66_N5 167800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz H 30M-1G



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2166.11	-48.11	-57.62	-13.00	44.62	-9.51	Vertical
2	3201.72	-48.23	-54.66	-13.00	41.66	-6.43	Vertical
3	4130.81	-48.52	-52.48	-13.00	39.48	-3.96	Vertical
4	7118.51	-52.31	-45.27	-13.00	32.27	7.04	Vertical
5	10626.4	-54.33	-39.6	-13.00	26.60	14.73	Vertical
6	14658.8	-56.52	-35.25	-13.00	22.25	21.27	Vertical

B66_N5 167800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz V 1G-18G



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.8189	-50.85	-64.34	-13.00	51.34	-13.49	Vertical
2	66.8723	-37.77	-53.87	-13.00	40.87	-16.10	Vertical
3	75.6052	-35.65	-53.1	-13.00	40.10	-17.45	Vertical
4	117.005	-48.17	-62.69	-13.00	49.69	-14.52	Vertical
5	235.385	-48.16	-63.58	-13.00	50.58	-15.42	Vertical
6	278.079	-43.86	-56.96	-13.00	43.96	-13.10	Vertical

B66_N5 167800 20MHz DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz V 30M-1G

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: P27-SCE5164-B48) 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:

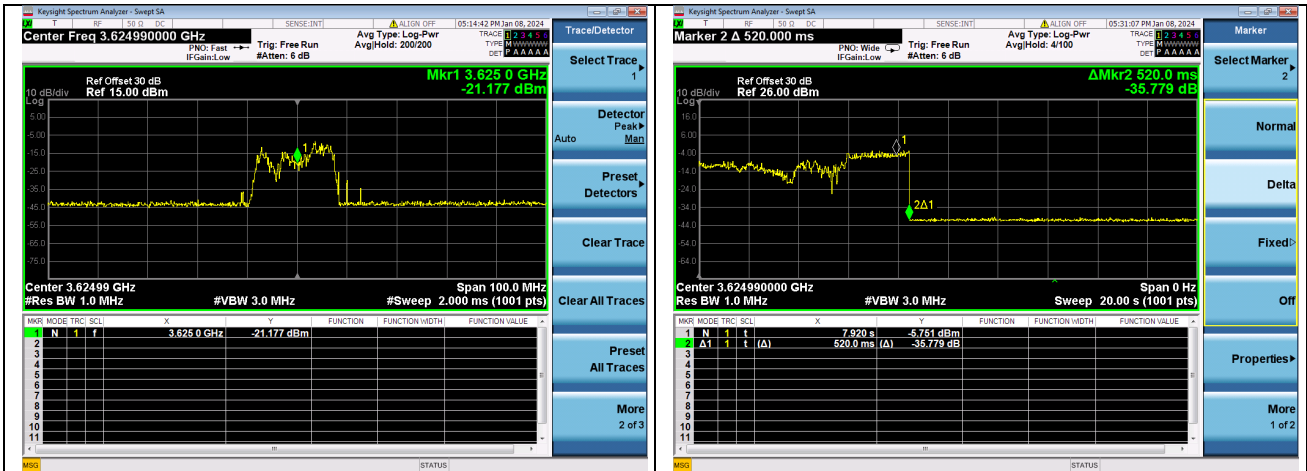
- a. Setup frequency with 3624.99MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.

Test Graph 2:

- a. Setup frequency with 3690.00MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s



Test Graph 1

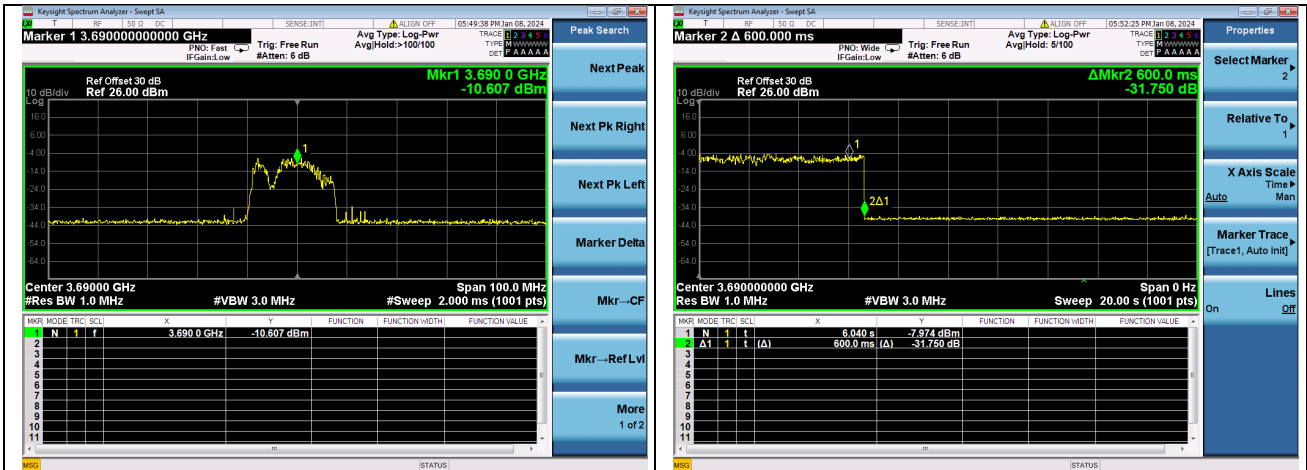


Note:

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

Company 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
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.



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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
Attenuator 1	(N/A.)	10dB	Resnet	N/A	N/A
Attenuator 2	(N/A.)	3dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY54170556	N9030A	Keysight	2023.10.07	2024.10.06
System Simulator	6262012906	MT8000A	Anritsu	2023.06.27	2024.06.26
System Simulator	6261830572	MT8821C	Anritsu	2023.06.27	2024.06.26
System Simulator	MY58300665	E7515B	Anritsu	2023.10.07	2024.10.06
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	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	2023.09.19	2024.09.18
Computer	T430i	Think Pad	Lenovo	N/A	N/A
Test system	N/A	WCS FCC V22.02.041801	CeSheng	N/A	N/A
Minitype 5GC	2302M1205	MINIPC-M1	CWWK	N/A	N/A
n48 Integrated microbase station	2209DR6000177	SCE5164-B48	SERCOM	N/A	N/A

**4.2 Radiated Test Equipment**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Loop Antenna	1519-022	FMZB 1519	SCHWARZBECK	2023.06.26	2024.06.25
Bi-Log Antenna	9163-274	VULB 9163	SCHWARZBECK	2023.06.27	2024.06.26
Bi-Log Antenna	9163-519	VULB 9163	SCHWARZBECK	2023.07.01	2024.06.30
Horn Antenna	9120D-963	BBHA 9120D	SCHWARZBECK	2023.06.27	2024.06.26
Horn Antenna	01774	BBHA 9120D	SCHWARZBECK	2023.07.01	2024.06.30
Horn Antenna	BBHA9170#773	BBHA9170	SCHWARZBECK	2023.07.01	2024.06.30
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Receiver	MY56400093	N9038A	KEYSIGHT	2023.02.09 2024.01.25	2024.02.08 2025.01.24
Receiver	595WX11007	PMM 9010	PMM	2023.02.09 2024.01.25	2024.02.08 2025.01.24
Receiver	001WX1100	PMM 9060	PMM	2023.02.09 2024.01.25	2024.02.08 2025.01.24
Signal Analyzer	MY56060145	N9020A	Agilent	2023.06.21	2024.06.20
6db Attenuator	E191001	BW-N6W5+	Mini-circuits	2023.9.19	2024.09.18
Preamplifier (2GHz-18GHz)	61171.061172	S020180L3203	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
System Simulator	152038	CMW500	R&S	2023.09.19	2024.09.18
System Simulator	MY48364176	8960-E5515C	Agilent	2023.02.27 2024.01.24	2024.02.26 2025.01.23
System Simulator	6262148249	MT8000A	anritsu	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26



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Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2023.07.04	2024.07.03

————— END OF REPORT —————

