

RF Test Report

Test Report Number	STA-24041661-LC-FCC-IC-RF-DSS
FCC ID ISED ID	N6C-USBAC 4908A-USBAC
Applicant Applicant Address Product Name Model Number Date of Receipt Date of Test Report Issue Date Test Standards Test Result	Silex technology, Inc. 2-3-1 Hikaridai, Seika-cho, Kyoto 619-0237, Japan Embedded Wireless Module SX-USBAC 04/26/2024 04/30/2024- 05/08/2024 05/20/2024 47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023 PASS
	<p>Issued by:</p> <p>Vista Compliance Laboratories 1261 Puerta Del Sol, San Clemente, CA 92673 USA www.vista-compliance.com</p>
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REVISION HISTORY

Report Number	Version	Description	Issued Date
STA-24041661-LC-FCC-IC-RF-DSS	01	Initial report	05/20/2024

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1 Test Summary

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	Pass
AC Power Line Conducted Emissions	47 CFR Part 15.207 RSS-Gen Issue 5, Feb 2021	ANSI C63.10 (2013) RSS-Gen Issue 5, Feb 2021	N/A
20 dB Bandwidth	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Occupied Bandwidth	RSS-Gen Issue 5, Feb 2021	RSS-Gen Issue 5, Feb 2021	N/A
Number of Hopping Channel	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Conducted Maximum Output Power	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Channel Separation	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Time of Occupancy	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Conducted Band-Edge & Unwanted Emissions	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Frequency Hopping System Requirement	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	N/A
Radiated Emissions & Unwanted Emissions into Restricted Frequency Bands	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023	ANSI C63.10 (2013)	Pass

Note: N/A. The EUT is a certified BT and WLAN module, for more test details please see FCC ID: N6C-USBAC and ISED ID: 4908A-USBAC. Current report is additional evaluation due to adding new antenna for C2PC filing.

2 General Information

2.1 Applicant

Applicant	Silex technology, Inc.
Applicant Address	2-3-1 Hikaridai, Seika-cho, Kyoto 619-0237, Japan
Manufacturer	Silex technology, Inc.
Manufacturer Address	2-3-1 Hikaridai, Seika-cho, Kyoto 619-0237, Japan

2.2 Product information

Product Name	Embedded Wireless Module
Model Number	SX-USBAC
Family Models	N/A
Serial Number	N/A
Frequency Band	Bluetooth_Classic: 2402-2480MHz BLE: 2402-2480MHz WLAN 2.4G: 2412-2462MHz WLAN 5G: U-NII-1: 5150-5250MHz, U-NII-2A: 5250-5350MHz U-NII-2C: 5470-5725MHz, U-NII-3: 5725-5850MHz
Frequency Band	Bluetooth_Classic: 2402-2480MHz BLE: 2402-2480MHz WLAN 2.4G: 2412-2462MHz WLAN 5G: U-NII-1: 5150-5250MHz, U-NII-2A: 5250-5350MHz U-NII-2C: 5470-5725MHz, U-NII-3: 5725-5850MHz
Type of modulation	BT BDR/EDR: GFSK, $\pi/4$ DQPSK, 8DPSK BLE: GFSK 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM-CCK (BPSK, QPSK, 16QAM, 64QAM) 802.11a/n/ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Equipment Class	DSS
Antenna Information	Hercules Wi-Fi 6 Permanent Mount Antenna (Part No.: WS.03.B.205151.vj) (omni-directional with cable) Peak Gain: 3.43 dBi for 2 GHz, 5.02 dBi for 5 GHz
Clock Frequencies	N/A
Input Power	3.3VDC
Power Adapter Manufacturer/Model	N/A
Power Adapter SN	N/A
Hardware version	N/A
Software version	N/A
Additional Info	N/A

2.3 Test standard and method

Test standard	47 CFR Part 15.247 RSS-247 Issue 3, Aug 2023
Test method	ANSI C63.10-2013 558074 D01 15.247 Meas Guidance v05r02

3 Test site information

Lab performing tests	Vista Laboratories, Inc.
Lab Address	1261 Puerta Del Sol, San Clemente, CA 92673 USA
Phone Number	+1 (949) 393-1123
Website	www.vista-compliance.com

Test Condition	Temperature	Humidity	Atmospheric Pressure
Radiated Emission Testing	24.8°C	42.7%	996 mbar

4 Modification of EUT

The EUT is an engineering test sample loaded with RF testing firmware specifically designed to support the RF TX measurement in different aspects.

5 Test configuration and operation

5.1 EUT test configuration

The EUT is mounted onto an i.MX6Q EVK Kit to support testing. EUT is set to different transmission modes in terms of radio mode bandwidth, power level, test channel, etc.

The following software was used for testing and to monitor EUT performance.

Software	Description
EMISoft Vasona	EMC/RF Spurious emission test software used during testing
Tera Term	Set the module work at BT mode
QRCT Application	Set the module into different mode, channel, packet type, etc.

5.2 EUT Power setting

Radio	Channel	Frequency (MHz)	Power setting
BT BDR/EDR	0	2402	08
BT BDR/EDR	39	2441	08
BT BDR/EDR	78	2480	08

5.3 Supporting Equipment

Description	Manufacturer	Model #	Serial #	Remark
Laptop	Dell	Latitude E6510	6V9S2M1	Send command
i.MX6Q EVK Kit	N/A	N/A	N/A	Test Fixture
AC Adapter	SCEPTRE	ATS030-A050	PS2D-5050APL05	Power to i.MX6Q EVK Kit
Ethernet cable	N/A	N/A	N/A	Communication with Test PC
Micro USB Cable	N/A	N/A	N/A	

6 Uncertainty of Measurement

Test item	Measurement Uncertainty (dB)
RF Output Power (Conducted)	±1.2 dB
Power Spectral Density	±0.9 dB
Unwanted Emission (conducted)	±2.6 dB
Occupied Channel Bandwidth	±5 %
Radiated Emission (9KHz-30MHz)	±3.5 dB
Radiated Emission (30MHz-1GHz)	±4.6 dB
Radiated Emission (1-18GHz)	±4.9 dB
Radiated Emission (18-40GHz)	±3.5 dB

7 Test Summary and Results

7.1 Antenna Requirement

7.1.1 Requirement

Per § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

7.1.2 Result

Analysis:

- EUT has u.FL antenna connector which is a unique type that is acceptable for FCC. The added external Hercules Wi-Fi 6 Permanent Mount Antenna, has reversed-SMA connector, which connects to SX-USBAC through a u.FL to RSMA RF cable.

Conclusion:

- EUT and its antenna meet FCC requirements.

7.2 Radiated Band-Edge & Spurious Emissions into Restricted Frequency Bands

7.2.1 Requirement

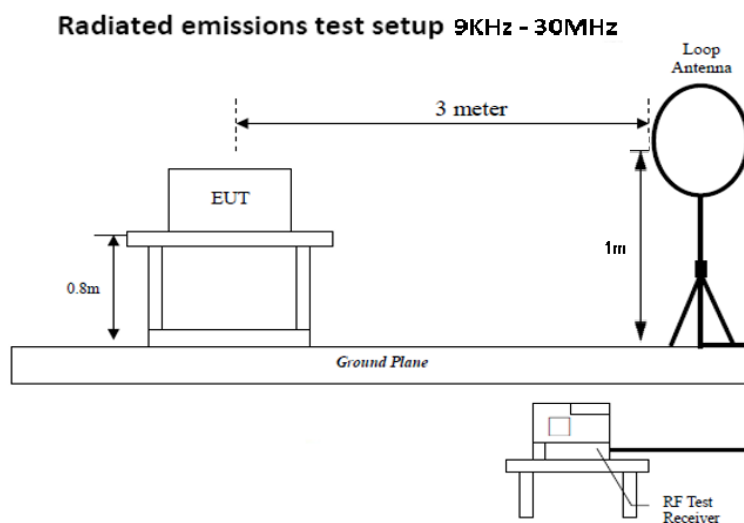
§ 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

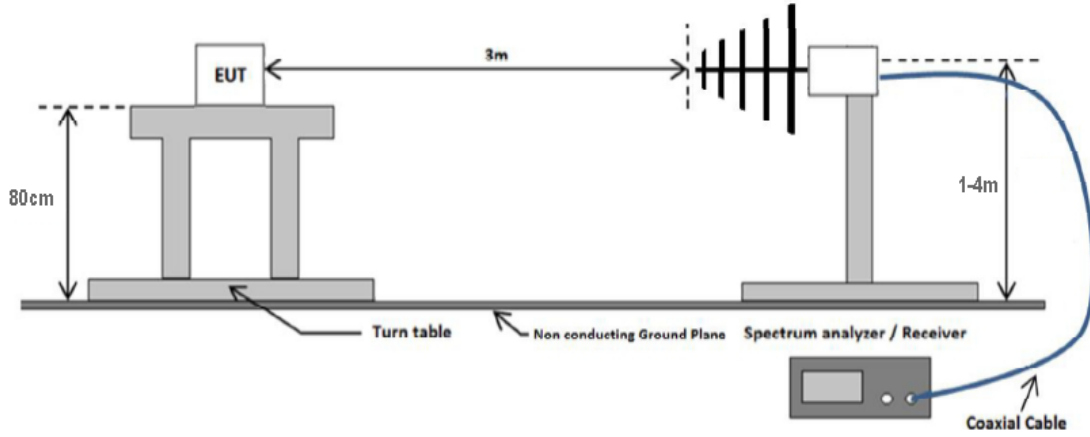
Attenuation below the general limits specified in §15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Frequency range (MHz)	Field Strength ($\mu\text{V/m}$)
0.009~0.490	2400/F(KHz)
0.490~1.705	24000/F(KHz)
1.705~30.0	30
30 – 88	100
88 – 216	150
216 960	200
Above 960	500

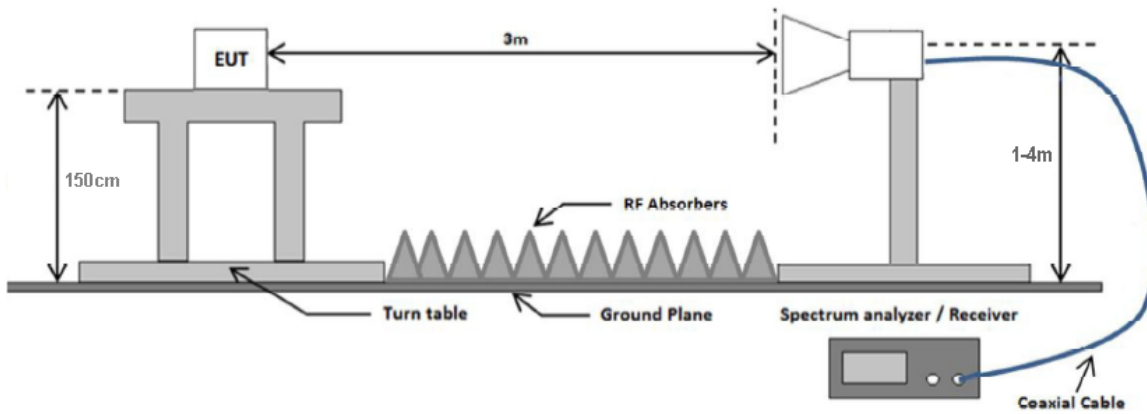
7.2.2 Test setup



Radiated emissions test setup 30 MHz - 1 GHz



Radiated emissions test setup above 1 GHz



7.2.3 **Test Procedure**

According to section 8.6 in KDB 558074 D01 DTS Meas Guidance v05r02 and subclause 11.12.2.7 Radiated spurious emission measurements in ANSI C62.10-2013 as well as the procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 was followed. Boresight antenna mast was used during the scanning to point to EUT to maximize the emission. The process will be repeated in 3 EUT orientations.

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 300 Hz for frequency below 150KHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 10 kHz for frequency between 150KHz – 30MHz.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-Peak detection at frequency between 30MHz - 1GHz.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak and average measurement at frequency above 1GHz.
7. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

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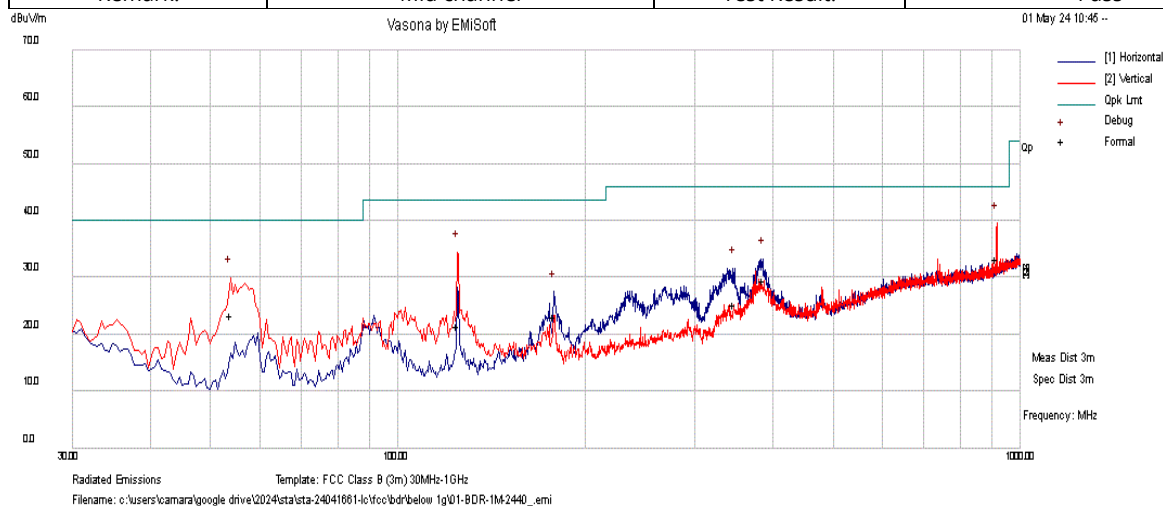
7.2.4 Test Result

Radiated Emission between 9KHz – 30MHz test result

Note: no substantial emission is found other than the noise floor. Different modes have been verified.

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	15.209, 15.247, RSS-247	Mode:	GFSK
Frequency Range:	30 MHz - 1 GHz	Test Date:	05/01/2024
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	Mid channel	Test Result:	Pass



No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	916.50	29.64	7.67	-4.05	33.26	Quasi Max	V	105	0	46.00	-12.74	Pass
2	124.64	36.72	3.93	-19.18	21.47	Quasi Max	V	104	351	43.50	-22.03	Pass
3	53.95	42.41	2.88	-21.91	23.38	Quasi Max	V	127	36	40.00	-16.62	Pass
4	385.93	33.36	6.28	-10.08	29.56	Quasi Max	H	127	0	46.00	-16.44	Pass
5	347.37	31.37	6.03	-12.18	25.22	Quasi Max	H	215	294	46.00	-20.78	Pass
6	178.08	36.73	4.53	-18.07	23.19	Quasi Max	H	154	61	43.50	-20.31	Pass

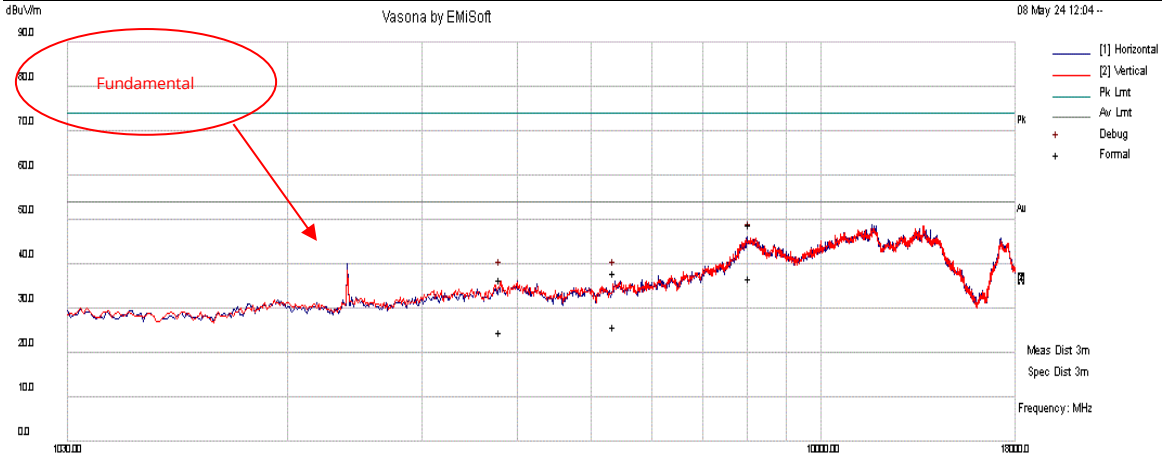
Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

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RADIATED EMISSIONS 1 - 18 GHZ

Test Standard:	15.209, 15.247, RSS-247	Mode:	GFSK
Frequency Range:	30 MHz - 1 GHz	Test Date:	05/08/2024
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	Low channel	Test Result:	Pass



Radiated Emissions Template: FCC 15.209 (3m) 1-18GHz
 Filename: c:\users\camara\google drive\2024\statasta-24041661-lc\fcc\ldr\above 1g\01-BDR-1M2402_emi

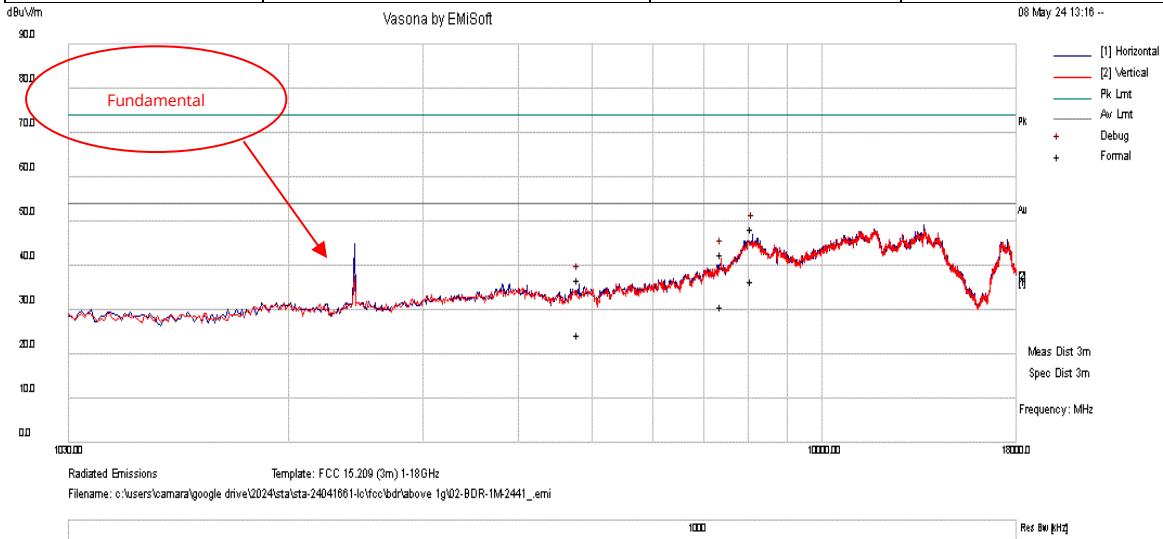
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	8069.55	18.87	14.24	15.78	48.89	Peak Max	H	101	336	74.00	-25.11	Pass
2	3807.92	21.96	9.08	5.36	36.40	Peak Max	V	346	216	74.00	-37.60	Pass
3	5368.90	21.30	10.39	6.26	37.95	Peak Max	H	348	88	74.00	-36.05	Pass
4	8069.55	6.75	14.24	15.78	36.77	Average Max	H	101	336	54.00	-17.23	Pass
5	3807.92	10.12	9.08	5.36	24.56	Average Max	V	346	216	54.00	-29.44	Pass
6	5368.90	9.12	10.39	6.26	25.77	Average Max	H	348	88	54.00	-28.23	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

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Test Standard:	15.209, 15.247, RSS-247	Mode:	GFSK
Frequency Range:	30 MHz - 1 GHz	Test Date:	05/08/2024
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	Mid channel	Test Result:	Pass



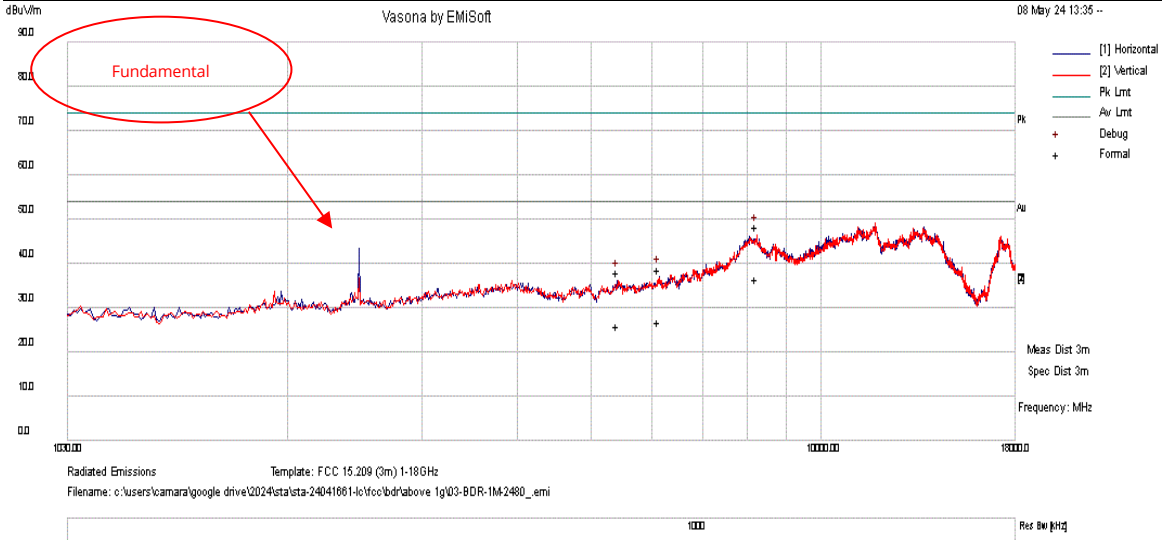
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	8113.62	18.27	14.22	15.70	48.19	Peak Max	H	263	85	74.00	-25.81	Pass
2	7385.24	19.56	13.05	9.90	42.51	Peak Max	V	371	70	74.00	-31.49	Pass
3	4806.13	21.62	9.14	6.02	36.78	Peak Max	H	262	87	74.00	-37.22	Pass
4	8113.62	6.52	14.22	15.70	36.44	Average Max	H	263	85	54.00	-17.56	Pass
5	7385.24	7.81	13.05	9.90	30.76	Average Max	V	371	70	54.00	-23.24	Pass
6	4806.13	9.17	9.14	6.02	24.33	Average Max	H	262	87	54.00	-29.67	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

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Test Standard:	15.209, 15.247, RSS-247	Mode:	GFSK
Frequency Range:	30 MHz - 1 GHz	Test Date:	05/08/2024
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	High channel	Test Result:	Pass



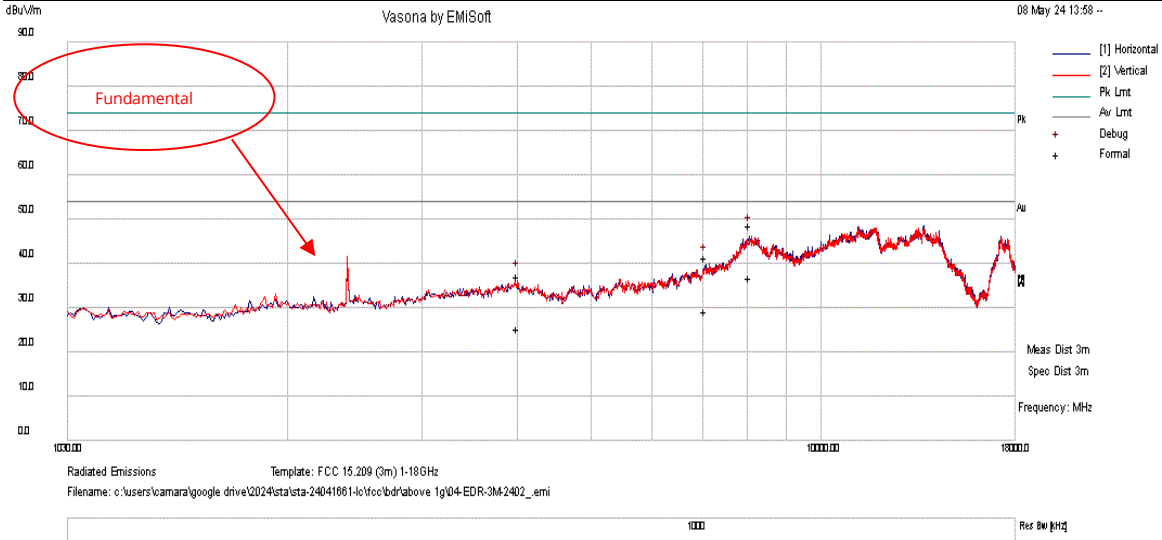
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	8241.31	18.58	14.16	15.62	48.36	Peak Max	V	225	246	74.00	-25.64	Pass
2	6141.57	19.96	11.83	6.78	38.57	Peak Max	H	122	279	74.00	-35.43	Pass
3	5411.42	21.44	10.52	6.13	38.09	Peak Max	H	243	16	74.00	-35.91	Pass
4	8241.31	6.59	14.16	15.62	36.37	Average Max	V	225	246	54.00	-17.63	Pass
5	6141.57	8.30	11.83	6.78	26.91	Average Max	H	122	279	54.00	-27.09	Pass
6	5411.42	9.09	10.52	6.13	25.74	Average Max	H	243	16	54.00	-28.26	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

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Test Standard:	15.209, 15.247, RSS-247	Mode:	8DPSK
Frequency Range:	30 MHz - 1 GHz	Test Date:	05/08/2024
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	Low channel	Test Result:	Pass



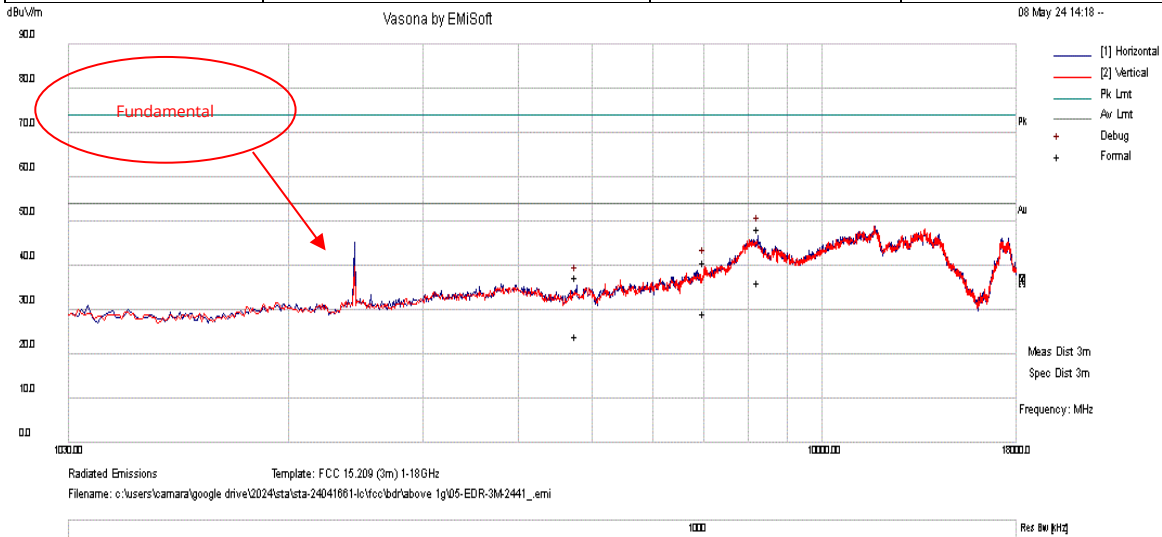
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	8072.12	18.64	14.24	15.78	48.66	Peak Max	H	278	9	74.00	-25.34	Pass
2	7065.94	19.49	12.63	9.16	41.28	Peak Max	H	369	137	74.00	-32.72	Pass
3	4012.81	22.03	9.94	5.14	37.11	Peak Max	H	182	0	74.00	-36.89	Pass
4	8072.12	6.69	14.24	15.78	36.71	Average Max	H	278	9	54.00	-17.29	Pass
5	7065.94	7.57	12.63	9.16	29.36	Average Max	H	369	137	54.00	-24.64	Pass
6	4012.81	10.33	9.94	5.14	25.41	Average Max	H	182	0	54.00	-28.59	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

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Frequency Range:	30 MHz - 1 GHz	Test Date:	05/08/2024
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	Mid channel	Test Result:	Pass



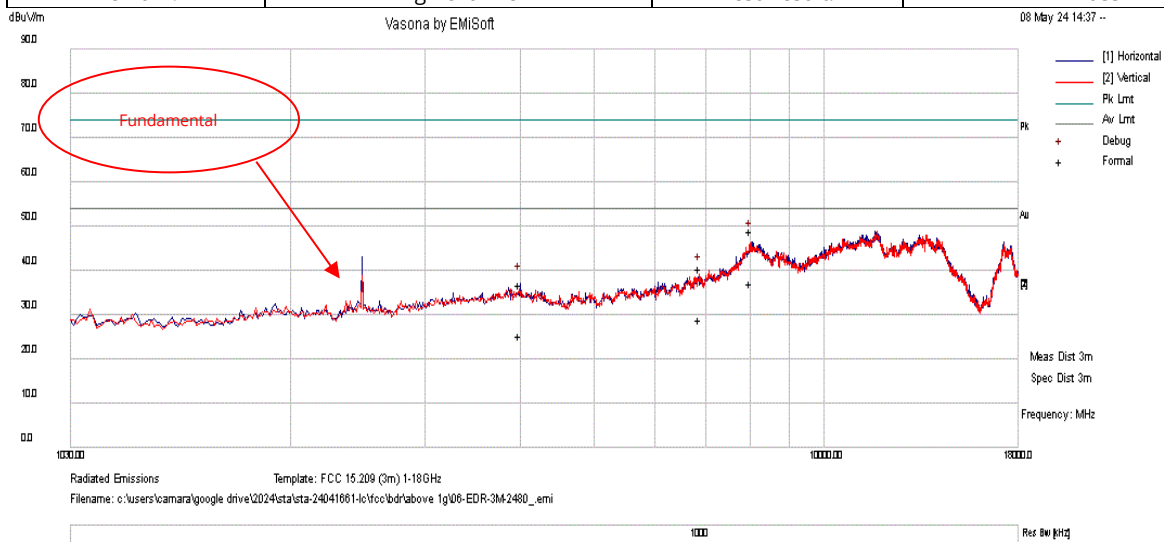
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	8253.15	18.61	14.16	15.59	48.36	Peak Max	H	306	10	74.00	-25.64	Pass
2	7021.76	19.14	12.61	9.04	40.79	Peak Max	V	236	10	74.00	-33.21	Pass
3	4774.31	22.25	9.07	5.97	37.29	Peak Max	H	122	60	74.00	-36.71	Pass
4	8253.15	6.53	14.16	15.59	36.28	Average Max	H	306	10	54.00	-17.72	Pass
5	7021.76	7.60	12.61	9.04	29.25	Average Max	V	236	10	54.00	-24.75	Pass
6	4774.31	9.08	9.07	5.97	24.12	Average Max	H	122	60	54.00	-29.88	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

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Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Personnel:	Lining
Remark:	High channel	Test Result:	Pass



No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	8029.28	18.74	14.26	15.84	48.84	Peak Max	V	224	28	74.00	-25.16	Pass
2	6879.35	19.50	12.31	8.64	40.45	Peak Max	V	350	320	74.00	-33.55	Pass
3	3999.28	21.62	9.96	5.18	36.76	Peak Max	H	302	0	74.00	-37.24	Pass
4	8029.28	6.87	14.26	15.84	36.97	Average Max	V	224	28	54.00	-17.03	Pass
5	6879.35	7.92	12.31	8.64	28.87	Average Max	V	350	320	54.00	-25.13	Pass
6	3999.28	10.17	9.96	5.18	25.31	Average Max	H	302	0	54.00	-28.69	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF(dB) = Antenna Factor (dB) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

18GHz – 40GHz test result

Note: no substantial emission is found other than the noise floor. Different modes have been verified.

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8 EUT and Test Setup Photos

Refer to FCC exhibit

9 Test instrument list

Equipment	Manufacturer	Model	Instrument Number	Cal. Date	Cal. Due
Semi-Anechoic Chamber	ETS-Lindgren	10M	VL001	10/18/2022	10/18/2024
Shielding Control Room	ETS-Lindgren	Series 81	VL006	N/A1)	N/A1)
Spectrum Analyzer	Keysight	N9020A	MY50110074	06/09/2023	06/09/2024
EMC Test Receiver	R&S	ESL6	100230	06/07/2023	06/07/2024
LISN (9KHz - 30MHz)	EMCO	3816/2	9705-1066	07/12/2023	07/12/2024
Bi-Log Antenna	ETS-Lindgren	3142E	217921	07/19/2023	07/19/2024
Horn Antenna (1-18GHz)	Electro-Metrics	EM-6961	6292	07/21/2023	07/21/2024
Horn Antenna (18-40GHz)	Com-Power	AH-840	101109	07/21/2023	07/21/2024
Preamplifier	RF Bay, Inc.	LPA-10-20	11180621	07/16/2023	07/16/2024
Temp / Humidity / Pressure Meter	PCE Instruments	PCE-THB 40	R062028	06/07/2023	06/07/2024
RF Attenuator	Pasternack	PE7005-3	VL061	07/16/2023	07/16/2024
Preamplifier 100KHz - 40GHz	Aeroflex	33711-392-77150-11	064	07/16/2023	07/16/2024
EM Center Control	ETS-Lindgren	7006-001	160136	N/A1)	N/A1)
Turn Table	ETS-Lindgren	2181-3.03	VL002	N/A1)	N/A1)
Boresight Antenna Tower	ETS-Lindgren	2171B	VL003	N/A1)	N/A1)
Loop Antenna (9k-30MHz)	Com-Power	AL-130	121012	06/09/2023	06/09/2024
RE test cable (below 6GHz)	Vista	RE-6GHz-01	RE-6GHz-01	07/16/2023	07/16/2024
RE test cable (1-18GHz)	PhaseTrack	II-240	RE-18GHz-01	07/16/2023	07/16/2024
RE test cable (>18GHz)	Sucoflex	104	344903/4	07/16/2023	07/16/2024
Pulse limiter	Com-Power	LIT-930A	531727	07/16/2023	07/16/2024
CE test cable #1	FIRST RF	FRF-C-1002-001	CE-6GHz-01	07/16/2023	07/16/2024
CE test cable#2	FIRST RF	FRF-C-1002-001	CE-6GHz-02	07/16/2023	07/16/2024
USB RF Power Sensor	ETS-Lindgren	7002-006	SN 00151268	06/07/2023	06/07/2024
Agilent Signal Generator	MXG N5182A	N5182A	US47080548	06/07/2023	06/07/2024
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL052	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL053	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL054	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL055	N/A1)	N/A1)
Wideband Communication	R&S	CMW500	147508	05/10/2023	05/10/2024

Note:

- 1) This equipment is not for measurement purpose and only require functional verification. Calibration is not required.

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