Spot Check Evaluation

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2451-3
FCC ID	:	IHDT56AP8
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(N), 27(O), 90(S) 47 CFR Part 15 Subpart C §15.209 47 CFR Part 15 Subpart C §15.225 47 CFR Part 15 Subpart C §15.247 47 CFR Part 15 Subpart E §15.407
TEST DATE(S)	:	Apr. 19, 2024 ~ Jun. 01, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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APPENDIX A. RADIATED SPURIOUS EMISSION

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
420703-01	Rev. 01	Initial issue of report	Apr. 30, 2024
420703-01	Rev. 02	Added verify Conducted Power table	May 13, 2024
420703-01	Rev. 03	Added test data for Co-locaiton	Jun. 01, 2024
420703-01	Rev. 04	1. Modified the description in section 2.1 2. Updated report format about section 2.3 3. Added unit for spot check test item on section 2.4	Jun. 13, 2024

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1. Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2451-3
FCC ID	IHDT56AP8
IMEI Code	Conducted/DFS/CBP: 355473450019278/355473450019286 Radiation: 355473450020037/355473450020045 Conduction: 355473450020037/355473450020045
HW Version	DVT2
SW Version	U3UX34.16
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Modification of EUT

No modifications are made to the EUT during all test items.

1.5. Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ CO01-SZ DFS01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-SZ 03CH05-SZ	CN1256	421272

1.6. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	03CH05-SZ	AUDIX	E3	6.2009-8-24al
3.	CO01-SZ	AUDIX	E3	6.120613b
4.	DFS01-SZ	Sporton	Test Tools	1.0

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC KDB 484596 D01 Referencing Test Data v02r03
- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(N), 27(O), 90(S)
- 47 CFR Part 15 Subpart C §15.209
- 47 CFR Part 15 Subpart C §15.225
- 47 CFR Part 15 Subpart C §15.247
- 47 CFR Part 15 Subpart E §15.407
- ANSI C63.10-2013
- ANSI C63.26-2015

1.8. Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-681N
AC Adapter 1(EU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-682N
AC Adapter 1(UK)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-683N
AC Adapter 1(AU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-685N
AC Adapter 1(AR)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-686N
AC Adapter 1(BR)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-687N
AC Adapter 1(CHILE)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-689N
AC Adapter 1(KR)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-680N
AC Adapter 2(US)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-681N
AC Adapter 2(EU)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-682N
AC Adapter 2(UK)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-683N
AC Adapter 2(AU)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-685N
AC Adapter 2(AR)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-686N
AC Adapter 2(BR)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-687N
AC Adapter 3(IN)	**Brand Name**	Motorola (Acbel)	**Model Name**	MC-684N
Battery 1	**Brand Name**	Motorola(ATL)	**Model Name**	QR10
Battery 2	**Brand Name**	Motorola(ATL)	**Model Name**	QR30
USB Cable 1	**Brand Name**	Motorola(SAIBAO)	**Model Name**	SC18D71644
USB Cable 2	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18E08104
Wireless Earphones	**Brand Name**	Motorola	**Model Name**	XT2441-1

2 Re-use of Measured Data

2.1 Introduction Section

The subject device of this application (Model: XT2451-3, FCC ID: IHDT56AP8) is electrically identical to the reference device (Model: XT2451-1, XT2451-2, FCC ID: IHDT56AP9) for the portions of the circuitry corresponding to the data being re-used.

ECR Data Referencing Inquiry has been approved by FCC, and the data referencing and spot check test plan includes RF/EMC, the details are presented in section 2.3 of this report, and for SAR Reference detail, please refer to FCC SAR report FA420703-01.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified. For SAR, the higher between the referenced value and the spot check value is used to determine compliance in both standalone and simultaneous transimission conditions

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AP8.

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AP9 and FCC ID: IHDT56AP8 is as below:

- Remove LTE B14/29/30/48 and 5G NR n12/n14/n25/n29/n30/n48/n70.
- Add CDMA BC0, LTE B32/34/42/43/38C and 5G NR n8/n75.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AP8_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

RF Reference detail Section

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Reference on test	Reference Title	FCC ID Filling (Variant)	Test on the variant	Data Referencing (Y/N)
15C	DSS (BR/EDR)	2400~2483.5	IHDT56AP9	Full test	FR420703A	IHDT56AP8	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AP9	Full test	FR420703B	IHDT56AP8	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AP9	Full test	FR420703C	IHDT56AP8	Spot check	Y, All test items
	DXX (NFC)	13.56	IHDT56AP9	Full test	FR420703D	IHDT56AP8	Spot check	Y, All test items
	DCD (WPT)	0.115~0.145	IHDT56AP9	Full test	FR420703E	IHDT56AP8	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AP9	Full test	FR420703F	IHDT56AP8	Spot check	Y, All test items
		5260~5320	IHDT56AP9	Full test	FR420703F	IHDT56AP8	Spot check	Y, All test items
		5500~5720	IHDT56AP9	Full test	FR420703F	IHDT56AP8	Spot check	Y, All test items
		5745~5825	IHDT56AP9	Full test	FR420703F	IHDT56AP8	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AP9	Full test	FZ420703	IHDT56AP8	Spot check	Y, All test items
	6XD	5925~7125	IHDT56AP9	Full test	FR420703G	IHDT56AP8	Spot check	Y, All test items
22, 24, 27, 90	PCE (GSM)	GSM 850/1900	IHDT56AP9	Full test	FG420703A	IHDT56AP8	Spot check	Y, All test items
	PCE (WCDMA)	Band II, IV, V	IHDT56AP9	Full test	FG420703A	IHDT56AP8	Spot check	Y, All test items
	PCE (LTE)	B2/4/5/25/26/66/66B	IHDT56AP9	Full test	FG420703B	IHDT56AP8	Spot check	Y, All test items
	PCE (LTE)	B7/7C/12/17/38/ 41/41C/71	IHDT56AP9	Full test	FG420703C	IHDT56AP8	Spot check	Y, All test items
	PCE (LTE)	B26 (90S)	IHDT56AP9	Full test	FG420703E	IHDT56AP8	Spot check	Y, All test items
	PCE (NR)	n26 (90S)	IHDT56AP9	Full test	FG420703M	IHDT56AP8	Spot check	Y, All test items
	PCE (NR)	n2/n5/n26/n71	IHDT56AP9	Full test	FG420703J	IHDT56AP8	Spot check	Y, All test items
	PCE (NR)	n7/n38/n41/n66	IHDT56AP9	Full test	FG420703K	IHDT56AP8	Spot check	Y, All test items
	PCE (NR)	n77/n78(27O)	IHDT56AP9	Full test	FG420703Q	IHDT56AP8	Spot check	Y, All test items
	PCE (LTE)	LTE Inter CA	IHDT56AP9	Full test	FG420703I	IHDT56AP8	Spot check	Y, All test items
	PCE (NR)	5G NR_Inter CA	IHDT56AP9	Full test	FG420703S	IHDT56AP8	Spot check	Y, All test items

Y: Pointer to spot-check exhibit; N: Pointer to full test exhibit

Note:

1. LTE Inter CA band: CA_2A-4A, CA_2A-5A,CA_2A-66A,CA_2A-7A, CA_4A-5A, CA_4A-7A, CA_5A-66A, CA_5A-7A
2. 5G NR Inter Band: CA_n5A-n78A
3. LTE Band 41C overlaps the entire frequency range of LTE Band 38C. Therefore, the test results provided in this report covers Band 41C as well as Band 38C, except for EIRP.

2.4 Spot Check Verification Data Section

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = | V_{dB} – R_{dB} | \leq 3 \text{ dB} \quad (1)$$

V_{dB}, the variant spot-check level

R_{dB}, the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} =|C_{dB} – R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation ddB from the reference data satisfies the following condition:

$$d_{dB} = | V_{dB} – R_{dB} | \leq (3 + M_{dB} /20) \text{ dB , for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for spot check for each rule entry and technology is listed as below:

Mode	Test Item (Unit)	IHDT56AP9 Parent Worst mode Test Result	IHDT56AP8 Variant Check Test Result	Deviation	Limit
BT 1Mbps (DH5-CH78)	Number of Channels (N)	79	79	0	3
	Hopping Channel Separation (MHz)	1.00	0.999	0.001	3
	Dwell Time of Each Channel(s)	0.306	0.308	0.002	3
	20dB Bandwidth(MHz)	0.95	0.96	0.01	3
	99% Bandwidth(MHz)	0.854	0.849	0.005	3
	Conducted Band Edges(dBm)	-43.65	-42.70	0.95	3
	Conducted Spurious Emission(dBm)	-36.48	-35.98	0.50	3
	Radiated Band Edges and Radiated Spurious Emission (dBuV/m)	49.69	48.62	1.17	3
BT	AC Conducted Emission (dBuV)	48.51	48.61	0.1	3
BLE (2M-CH39)	6dB Bandwidth (MHz)	1.14	1.164	0.024	3
	99% Bandwidth (MHz)	2.034	2.026	0.008	3
	Power Spectral Density (dBm/3KHz)	-0.08	-0.10	0.02	3
	Conducted Band Edges and Spurious Emission (dBm)	-43.12	-40.84	2.28	3
	Conducted Spurious Emission (dBm)	-36.63	-35.64	0.99	3
	Radiated Band Edges and Spurious Emission (dBuV/m)	50.18	49.21	0.97	3
BLE	AC Conducted Emission (dBuV)	48.51	48.61	0.1	3
WLAN 2.4G (802.11ax HE20-CH01)	6dB Bandwidth (MHz)	19.00	19.05	0.05	3
	99% Bandwidth (MHz)	19.301	19.281	0.02	3
	Power Spectral Density (dBm/3KHz)	-9.52	-10.26	0.74	3
	Conducted Band Edges and Spurious Emission (dBm)	-29.17	-29.69	0.52	3
	Conducted Spurious Emission (dBm)	-35.93	-36.58	0.65	3
	Radiated Band Edges and Spurious Emission (dBuV/m)	50.68	50.07	0.61	3
WLAN 2.4G	AC Conducted Emission (dBuV)	48.51	48.61	0.1	3

Mode	Test Item (Unit)	IHDT56AP9 Parent Worst mode Test Result	IHDT56AP8 Variant Check Test Result	Deviation	Limit
NFC	20dB Emission Bandwidth (MHz)	2.567	2.577	0.01	3
	99% Occupied Bandwidth (MHz)	2.188	2.178	0.01	3
	Field Strength of Fundamental (dBuV/m)	58.69	57.53	1.56	3
	Radiated Spurious Emissions (dBuV/m)	34.44	36.27	1.83	3
	AC Power Line Conducted Emissions(dBuV)	24.99	27.39	2.4	3
WPT	20dB Emission Bandwidth (MHz)	2.597	2.587	0.01	3
	99% Occupied Bandwidth (MHz)	2.188	2.200	0.012	3
	Radiated Emission (dBuV/m)	28.29	30.80	2.51	3
	AC Conducted Emission(dBuV)	35.31	32.32	2.99	3
WLAN 5G (802.11be EHT40 CH134)	26dB Emission Bandwidth (MHz)	45.40	43.92	1.48	3
	99% Occupied Bandwidth (MHz)	38.521	38.062	0.459	3
	Power Spectral Density (dBm/MHz)	6.04	5.42	0.62	3
	Radiated Band Edges and Spurious Emission (dBuV/m)	65.28	64.67	0.61	3
WLAN 5G	AC Conducted Emission (dBuV)	53.92	51.00	2.92	3
WLAN 5G	DFS (s)	0.526018	0.800427	0.274409	3
WLAN 6G (802.11ax HE20 CH233)	26dB Emission Bandwidth (MHz)	21.90	22.178	0.278	3
	99% Occupied Bandwidth (MHz)	19.261	19.181	0.06	3
	Fundamental Power Spectral Density (dBm/MHz)	-12.00	-11.014	0.986	3
	In-Band Emissions (Channel Mask) (dB)	-36.26	-36.71	0.45	3
	Contention Based Protocol (dBm)	-68.90	-70.36	1.46	3
	Radiated Band Edges and Spurious Emission (dBuV/m)	65.15	64.98	0.17	3
WLAN 6G	AC Conducted Emission (dBuV)	52.32	49.89	2.43	3

Mode	Test Item (Unit)	IHDT56AP9 Parent Worst mode Test Result	IHDT56AP8 Variant Check Test Result	Deviation	Limit
Part 22/24/27/90 2/3/4G (LTE Band 41)	26dB Bandwidth (MHz)	18.86	18.90	0.04	3
	Peak-to-Average Ratio (dB)	6.2	6.03	0.17	3
	Occupied Bandwidth (MHz)	18.86	18.06	0.8	3
	Conducted Band Edge Measurement (dBm)	-26.02	-25.41	0.61	3
	Conducted Spurious Emission (dBm)	-39.13	-38.38	0.75	3
	Frequency Stability Temperature & Voltage (ppm)	0.0014	0.0027	0.0013	3
	Radiated Spurious Emission(dBm)	-48.21	-49.89	1.68	3
Part 22/24/27/90 5G (5G NR n41)	Effective Radiated Power &Equivalent Isotropic Radiated Power (dBm)	22.4	22.31	0.09	3
	Peak-to-Average Ratio (dB)	4.42	4.46	-0.04	3
	Occupied Bandwidth (MHz)	97.554	97.234	0.32	3
	Conducted Band Edge Measurement (dBm)	3.121	3.635	-0.514	3
	Conducted Spurious Emission (dBm)	11.64	11.04	0.6	3
	Frequency Stability Temperature & Voltage (ppm)	0.0069	0.0043	0.0026	3
5G NR n7	Radiated Spurious Emission (dBm)	50.65	51.72	1.07	3

Test Item(Unit)	Mode	IHDT56AP9 Parent Worst mode Test Result	IHDT56AP8 Variant Check Test Result	Deviation	Limit
Conducted Output Power (dBm)	BT BR/EDR	19.60	19.52	0.08	3
	BLE 1Mbps	17.63	17.53	0.10	3
	BLE 2Mbps	13.24	13.17	0.07	3
	11b, 2.4GHz	26.79	26.68	0.11	3
	11g, 2.4GHz	28.72	28.63	0.09	3
	11n HT20, 2.4GHz	28.72	28.62	0.10	3
	11n HT40, 2.4GHz	26.65	26.59	0.06	3
	11ax HE20, 2.4GHz	28.90	28.79	0.11	3
	11ax HE40, 2.4GHz	28.50	28.45	0.05	3
	11be EHT20, 2.4GHz	28.91	28.84	0.07	3
	11be EHT40, 2.4GHz	26.59	26.51	0.08	3
	11a, 5.3GHz	21.56	21.46	0.10	3
	11n HT20, 5.3GHz	21.60	21.53	0.07	3
	11n HT40, 5.3GHz	21.55	21.43	0.12	3
	11ac VHT80, 5.5GHz	20.40	20.32	0.08	3
	11ac VHT160, 5.5GHz	19.65	19.56	0.09	3
	11ax HE20, 5.3GHz	21.70	21.66	0.04	3
	11ax HE40, 5.3GHz	21.59	21.51	0.08	3
	11ax HE80, 5.5GHz	20.49	20.42	0.07	3
	11ax HE160, 5.5GHz	19.73	19.68	0.05	3
	11be EHT20, 5.3GHz	21.64	21.56	0.08	3
	11be EHT40, 5.3GHz	21.49	21.42	0.07	3
	11be EHT80, 5.5GHz	20.54	20.45	0.09	3
	11be EHT160, 5.5GHz	19.47	19.36	0.11	3
	11a, U-NII-8	13.70	13.66	0.04	3
	11ax HE20, U-NII-8	14.39	14.32	0.07	3
	11ax HE40, U-NII-6	14.06	13.89	0.17	3
	11ax HE80, U-NII-6	14.04	13.90	0.14	3
	11ax HE160, U-NII-7	14.32	14.19	0.13	3
	11be EHT20, U-NII-8	14.32	14.21	0.11	3
	11be EHT40, U-NII-8	13.81	13.72	0.09	3
	11be EHT80, U-NII-7	14.05	13.91	0.14	3
	11be EHT160, U-NII-5	13.86	13.78	0.08	3
	11be EHT320, U-NII-5	14.55	14.34	0.21	3
	GSM850	32.3	32.27	0.03	3
	GSM1900	30.18	30.10	0.08	3
	WCDMA B2	23.67	23.64	0.03	3
	WCDMA B4	23.73	23.72	0.01	3
	WCDMA B5	23.43	23.42	0.01	3
	LTE B2	23.7	23.65	0.05	3
	LTE B4	23.48	23.45	0.03	3

	LTE B5	22.74	22.72	0.02	3
	LTE B7	23.38	23.37	0.01	3
	LTE B12	23.05	22.81	0.24	3
	LTE B17	22.86	22.62	0.24	3
	LTE B25	23.85	22.98	0.87	3
	LTE B26 (90S)	22.77	22.75	0.02	3
	LTE B26	22.77	22.75	0.02	3
	LTE B38	23.42	23.32	0.1	3
	LTE B41	26.53	26.14	0.39	3
	LTE B66	23.42	23.38	0.04	3
	LTE B71	22.52	22.5	0.02	3
	LTE CA_B7C	23.35	23.27	0 .08	3
	LTE CA_B41C	26.37	26.28	0.09	3
	LTE CA_B66B	23.55	23.25	0.30	3
	N2	23.64	23.37	0.27	3
	N5	23.34	23.19	0.15	3
	N7	23.31	23.22	0.09	3
	N26 (90S)	23.39	23.24	0.15	3
	N26	23.42	23.28	0.14	3
	N38	23.41	23.33	0.08	3
	N41	24.54	24.45	0.09	3
	N66	23.72	23.48	0.24	3
	N71	23.99	23.55	0.44	3
	P27O-N77	24.81	24.45	0.36	3
	P27O-N78	24.44	24.34	0.1	3

CA_38C ANT.1

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.15	0.1262
M	QPSK	1	Max	1	0	22.92	0.1197
H	QPSK	1	Max	1	0	23.00	0.1219
L	16QAM	1	Max	1	0	22.33	0.1045
M	16QAM	1	Max	1	0	21.97	0.0962
H	16QAM	1	Max	1	0	22.01	0.0971
L	64QAM	1	Max	1	0	20.92	0.0755
M	64QAM	1	Max	1	0	21.30	0.0824
H	64QAM	1	Max	1	0	21.07	0.0782
L	256QAM	1	Max	1	0	18.88	0.0472
M	256QAM	1	Max	1	0	18.71	0.0454
H	256QAM	1	Max	1	0	18.89	0.0473
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.10	0.1247
L	16QAM	1	Max	1	0	21.84	0.0933

Note: CA_38C can be covered by CA_41C. The conducted power test here is to derive the EIRP for the reduced frequency range.

Conclusion:

All test items test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. All spot check test data are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

The same detection mechanism/software/antenna gain is used in the variant of DFS/CBP. Hence, all test cases refer to parent report.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r03 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.

3 List of Measuring Equipment

For BT/WIFI:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Apr. 19, 2024~ Apr. 20, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Apr. 19, 2024~ Apr. 20, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	Apr. 19, 2024~ Apr. 20, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Apr. 22, 2024~ Jun. 01, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Apr. 22, 2024~ Jun. 01, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Apr. 22, 2024~ Jun. 01, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Apr. 22, 2024~ Jun. 01, 2024	May 13, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 13, 2024		May 12, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Apr. 22, 2024~ Jun. 01, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Apr. 22, 2024~ Jun. 01, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Apr. 22, 2024~ Jun. 01, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Apr. 22, 2024~ Jun. 01, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 22, 2024~ Jun. 01, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Apr. 22, 2024~ Jun. 01, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Apr. 22, 2024~ Jun. 01, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 22, 2024~ Jun. 01, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 22, 2024~ Jun. 01, 2024	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Apr. 30, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Apr. 30, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Apr. 30, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Apr. 30, 2024	Jul. 06, 2024	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	Apr. 20, 2024	Dec. 27, 2024	DFS (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	Apr. 20, 2024	Apr. 08, 2025	DFS (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 05, 2023	Apr. 20, 2024	Sep. 04, 2024	DFS (DFS01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	Apr. 20, 2024	Dec. 27, 2024	CBP (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	Apr. 20, 2024	Apr. 08, 2025	CBP (DFS01-SZ)

NCR: No Calibration Required.

For NFC/WPT:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Apr. 24, 2024~ Apr. 25, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 09, 2024	Apr. 19, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	Apr. 19, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Apr. 19, 2024	Jul. 27, 2024	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2023	Apr. 19, 2024	Jul. 07, 2024	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 09, 2024	Apr. 19, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 18, 2023	Apr. 19, 2024	Oct. 17, 2024	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Apr. 19, 2024	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Apr. 19, 2024	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	Apr. 30, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	Apr. 30, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Apr. 30, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	Apr. 30, 2024	Jul. 06, 2024	Conduction (CO01-SZ)

For WWAN Bands:

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Apr. 20, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Apr. 20, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	Apr. 20, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Apr. 20, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Apr. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Apr. 26, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Apr. 26, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	Apr. 26, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Apr. 26, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Apr. 26, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Apr. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Apr. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 26, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Apr. 26, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Apr. 26, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 26, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 26, 2024	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required.

4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement (BT/WIFI2.4G/5G)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of Conducted Measurement (WIFI 6G)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz
Conducted Generated signal Levels	±0.62 dB
Conducted Time	0.38%

Uncertainty of Conducted Measurement (NFC)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.012 MHz
Frequency	±1.3 Hz

Uncertainty of Conducted Measurement (WPT)

Test Item	Uncertainty
Occupied Channel Bandwidth	±0.012 MHz

Uncertainty of Conducted Measurement (DFS)

Test Item	Uncertainty
Conducted Generated signal Levels	±0.62 dB
Conducted Time	0.38%

Uncertainty of Conducted Measurement (WWAN)

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB

03CH04-SZ(BT/WIF):

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB

03CH05-SZ(NFC/WPT):

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB

03CH04-SZ(WWAN):

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9 dB

----------THE END----------

Appendix A. Radiated Spurious Emission Test Data

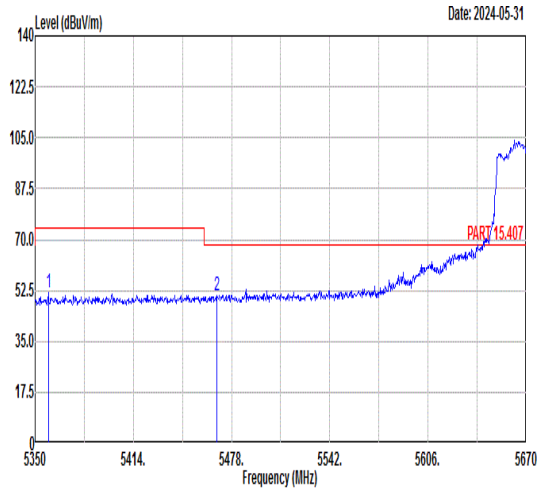
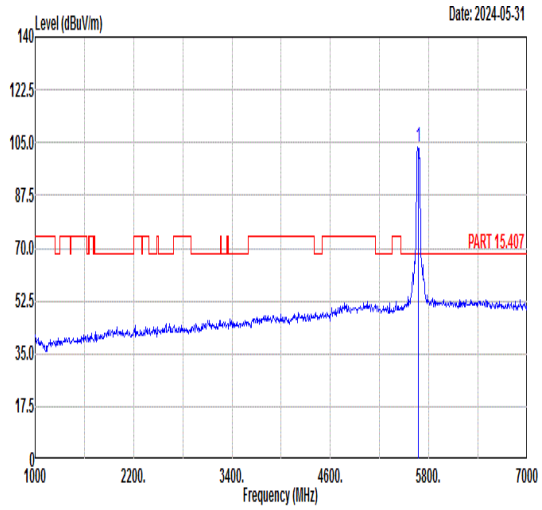
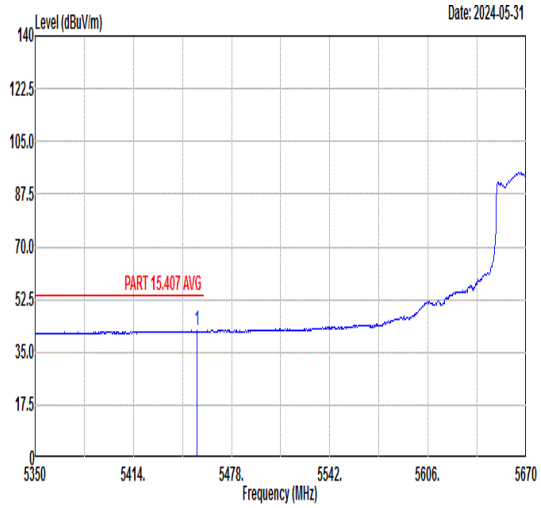
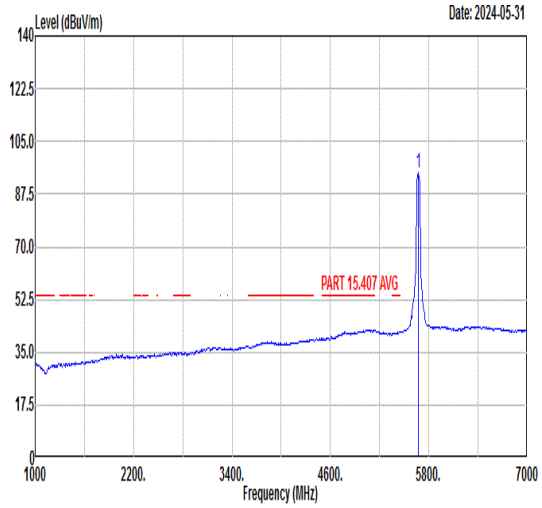
Test Engineer :	Wenbo Xiao	**Relative Humidity :**	50%
		Temperature :	20℃~22℃

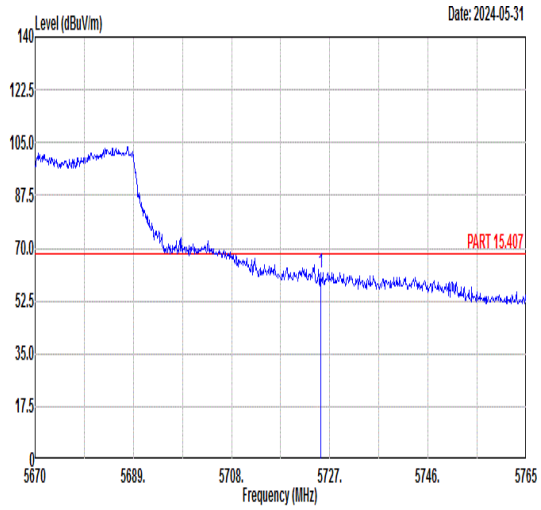
Radiated Spurious Emission Test Modes

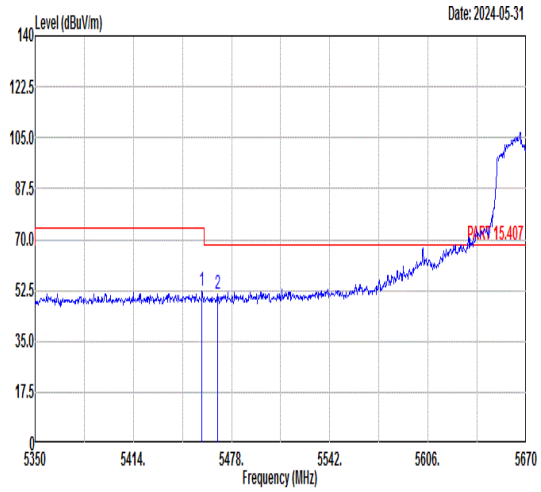
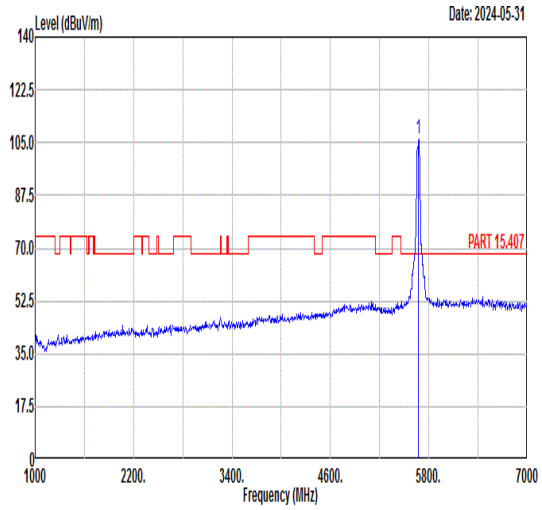
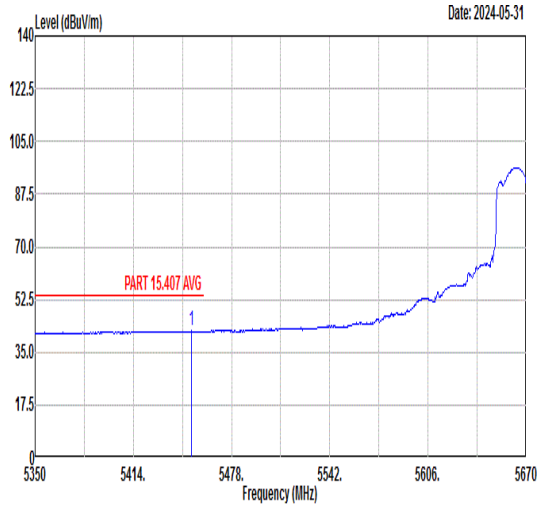
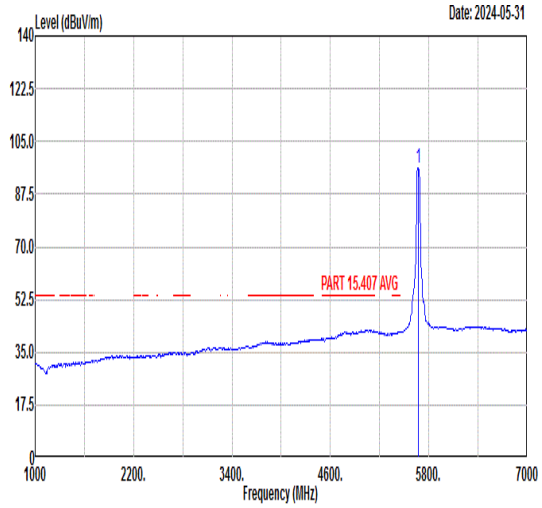
Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	U-NII-2C	5.47-5.725	5+7	802.11be EHT40	134	5670	MCS0	-
	-		0	CDMA BC0 Link+ BT ON + NFC ON				
Mode 2	U-NII-2C	5.47-5.725	5+7	802.11be EHT40	134	5670	MCS0	-
	-		0	LTE B13 Link+ BT ON + NFC ON				
Mode 3	U-NII-2C	5.47-5.725	5+7	802.11be EHT40	134	5670	MCS0	-
	-		4	LTE B42 Link+ BT ON + NFC ON				
Mode 4	U-NII-2C	5.47-5.725	5+7	802.11be EHT40	134	5670	MCS0	LF
	-		0	CDMA BC0 Link+ BT ON + NFC ON				
Mode 5	U-NII-2C	5.47-5.725	5+7	802.11be EHT40	134	5670	MCS0	LF
	-		0	LTE B13 Link+ BT ON + NFC ON				
Mode 6	U-NII-2C	5.47-5.725	5+7	802.11be EHT40	134	5670	MCS0	LF
	-		4	LTE B42 Link+ BT ON + NFC ON				

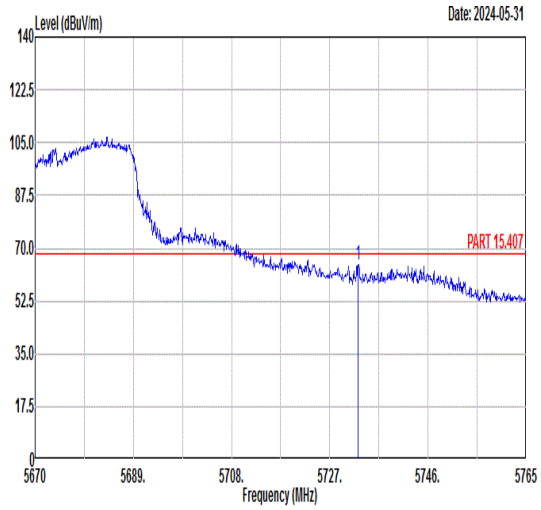
Summary of each worse mode

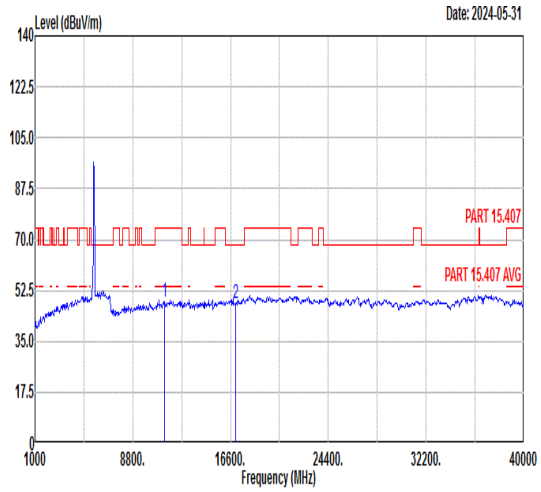
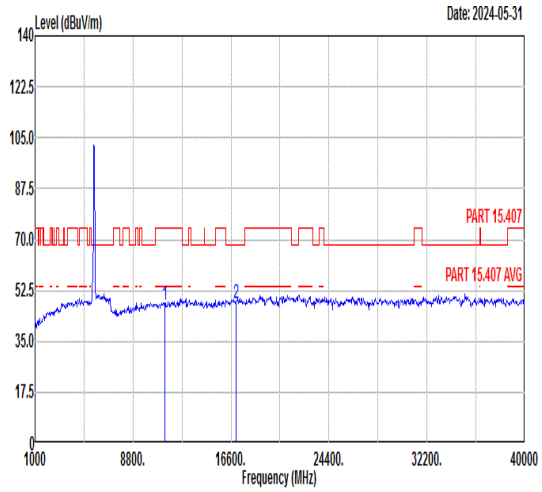
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11be EHT40	134	5732.51	64.30	68.30	-4.00	V	PEAK	Pass	Band Edge
	802.11be EHT40	134	17010.00	47.88	68.30	-20.42	V	Peak	Pass	Harmonic
2	802.11be EHT40	134	5732.32	64.56	68.30	-3.74	V	PEAK	Pass	Band Edge
	802.11be EHT40	134	17010.00	48.94	68.30	-19.36	V	Peak	Pass	Harmonic
3	802.11be EHT40	134	5728.24	64.41	68.30	-3.89	H	PEAK	Pass	Band Edge
	802.11be EHT40	134	17010.00	48.46	68.30	-19.84	V	Peak	Pass	Harmonic
4	802.11be EHT40	134	50.37	32.99	40.00	-7.01	V	Peak	Pass	LF
5	802.11be EHT40	134	53.28	32.57	40.00	-7.43	V	Peak	Pass	LF
6	802.11be EHT40	134	37.76	32.58	40.00	-7.42	V	Peak	Pass	LF

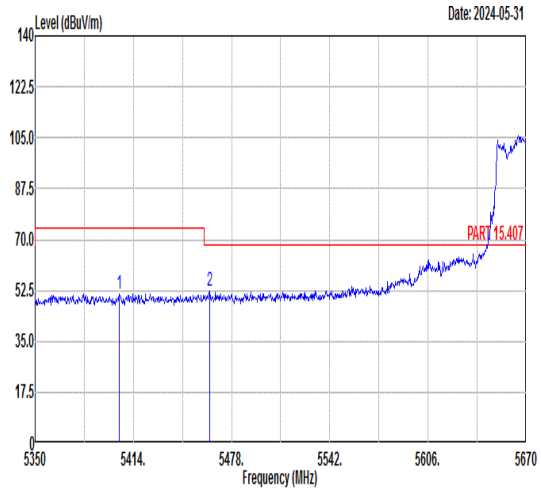
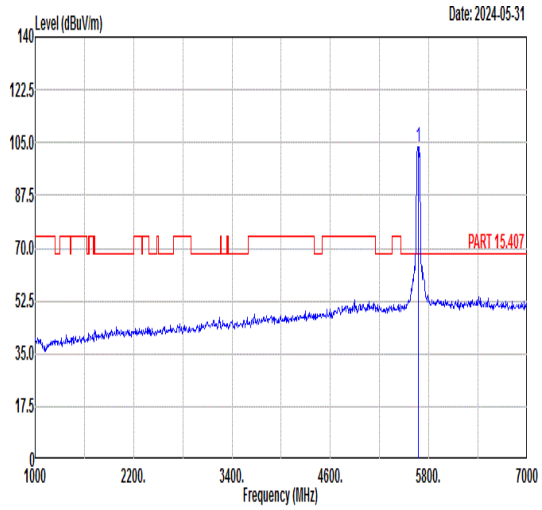
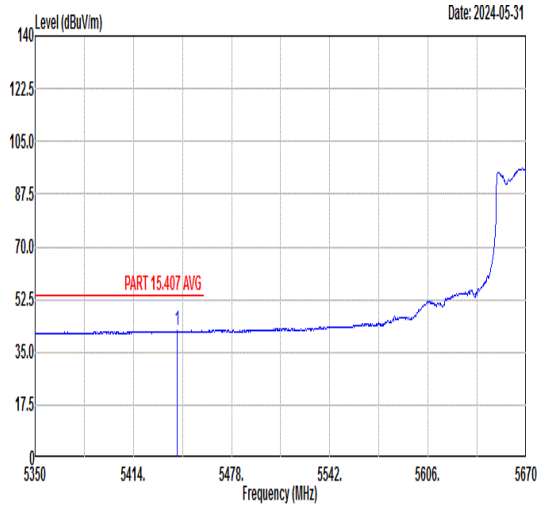
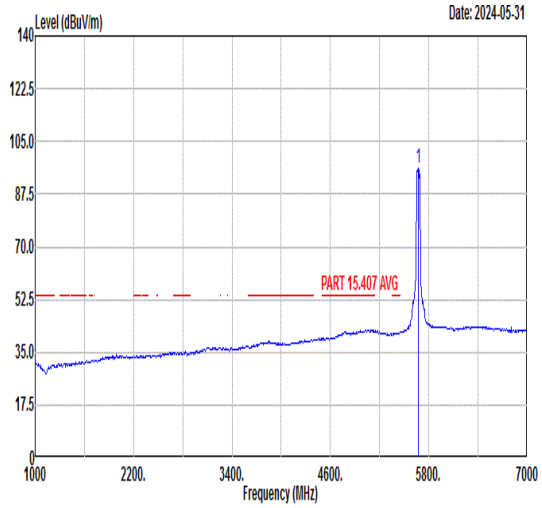
Mode	1	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+CDMA BC0 Link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5358.64 51.53 74.00 -22.47 38.77 35.98 9.41 32.63 103 237 PEAK 2 5468.40 50.77 68.30 -17.53 37.77 35.92 9.69 32.61 103 237 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5670.00 103.48 ------ ------ 90.12 36.13 9.89 32.66 103 237 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5455.28 42.08 54.00 -11.92 29.08 35.93 9.68 32.61 103 237 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark 1 5670.00 94.44 ------ ------ 81.07 36.14 9.90 32.67 103 237 AVERAGE

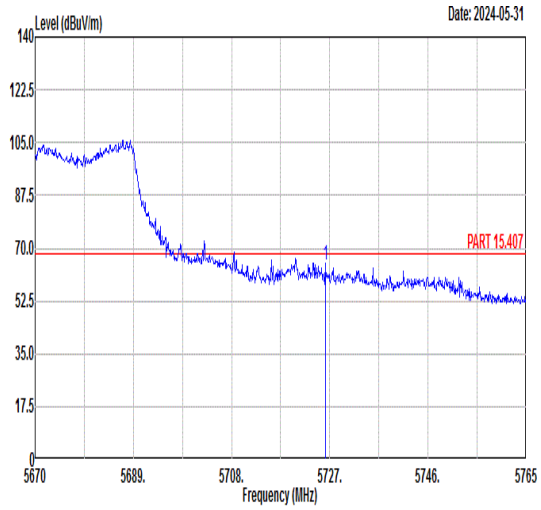
Mode	1	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+CDMA BC0 Link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5725.20 61.91 68.30 -6.39 48.36 36.22 10.02 32.69 103 237 PEAK	Blank

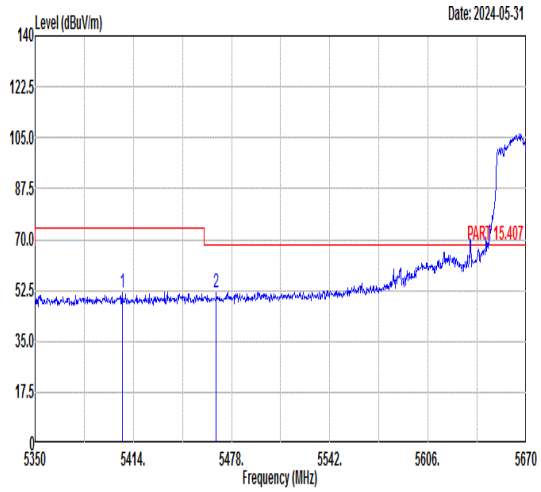
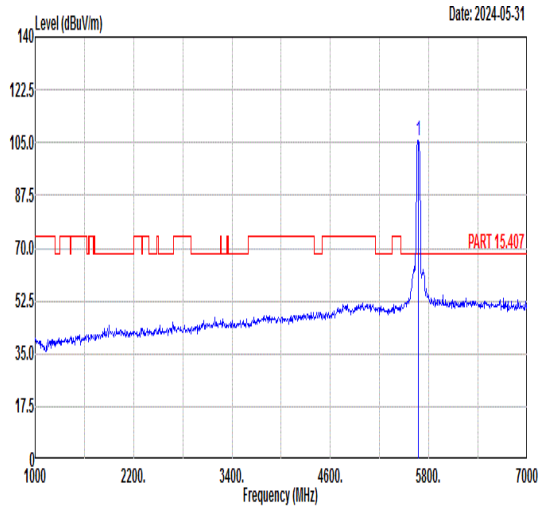
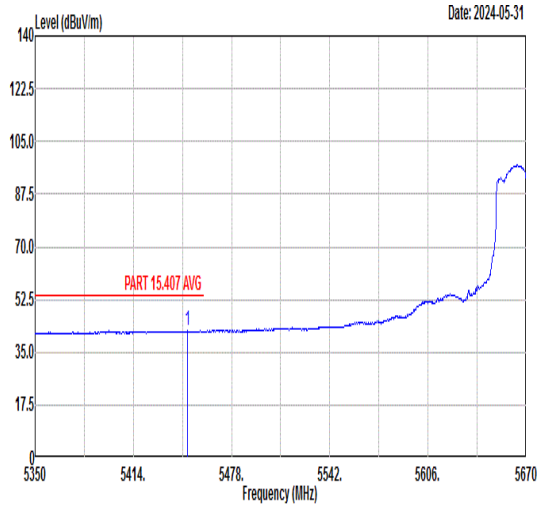
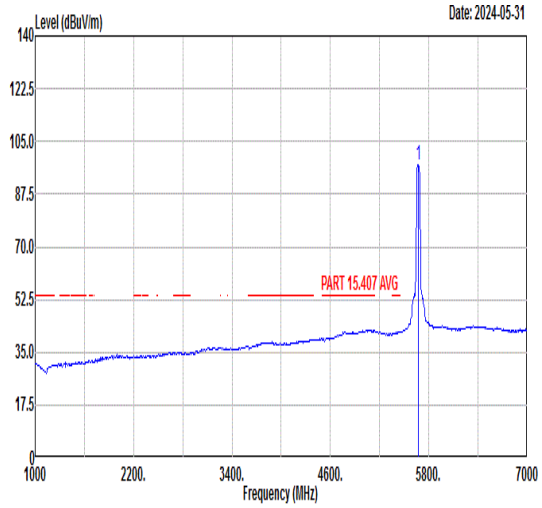
Mode	1	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+CDMA BC0 Link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5458.80 52.31 74.00 -21.69 39.31 35.92 9.69 32.61 288 248 PEAK 2 5468.72 51.39 68.30 -16.91 38.39 35.92 9.69 32.61 288 248 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5670.00 106.18 ------ ------ 92.78 36.15 9.92 32.67 288 248 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5452.08 42.01 54.00 -11.99 29.01 35.93 9.68 32.61 288 248 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5670.00 96.33 ------ ------ 82.97 36.13 9.89 32.66 288 248 AVERAGE

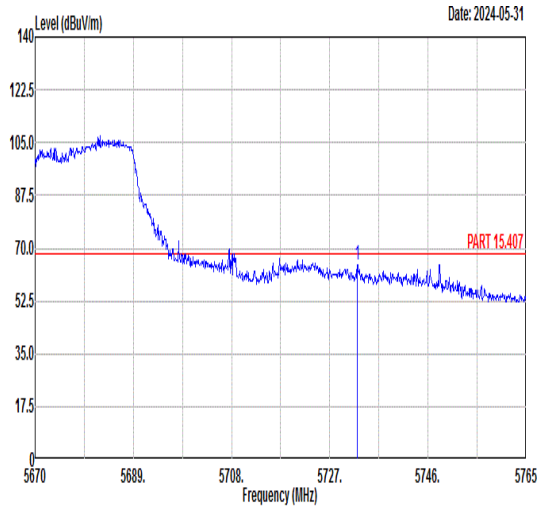
Mode	1	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+CDMA BC0 Link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5732.51 64.30 68.30 -4.00 50.73 36.23 10.03 32.69 288 248 PEAK	Blank

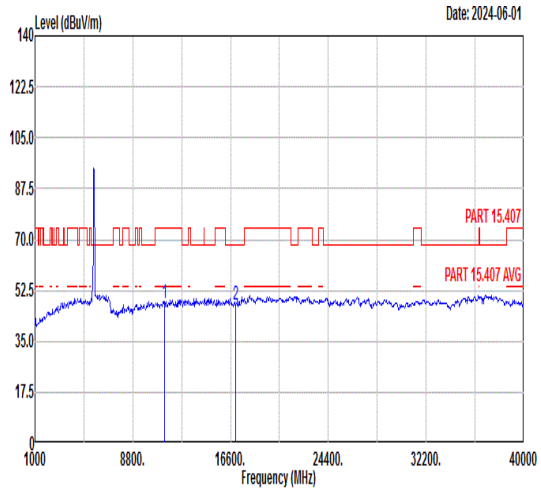
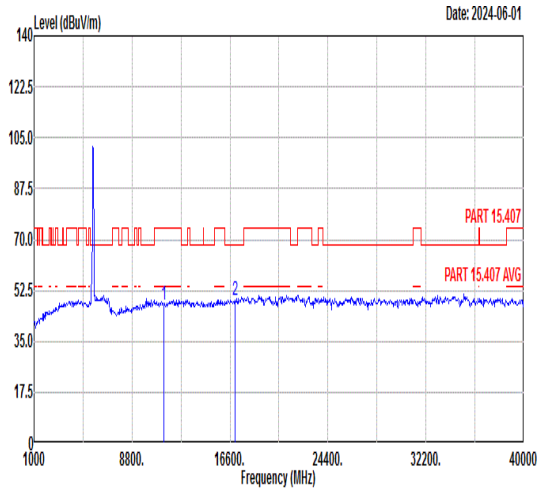
Mode	1	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+CDMA BC0 Link	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 48.36 74.00 -25.64 30.02 39.14 12.77 33.57 --- --- Peak 2 17010.00 47.85 68.30 -20.45 25.18 41.61 15.55 34.49 --- --- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 47.35 74.00 -26.65 29.01 39.14 12.77 33.57 --- --- Peak 2 17010.00 47.88 68.30 -20.42 25.21 41.61 15.55 34.49 --- --- Peak

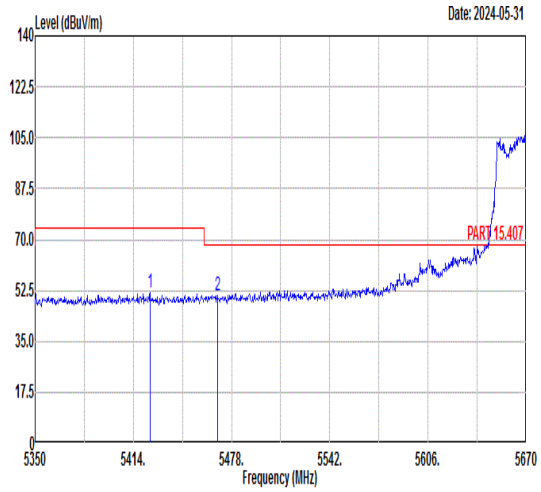
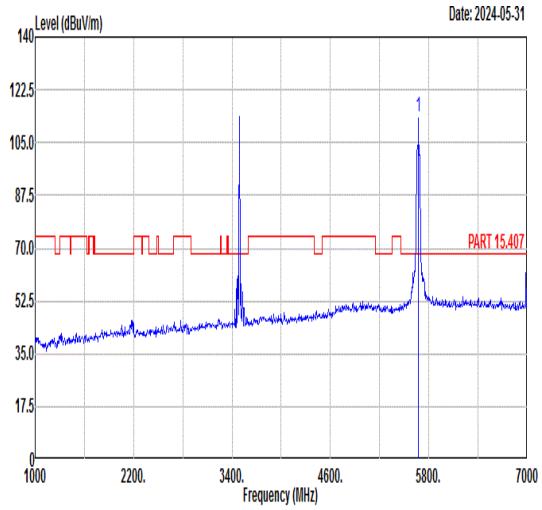
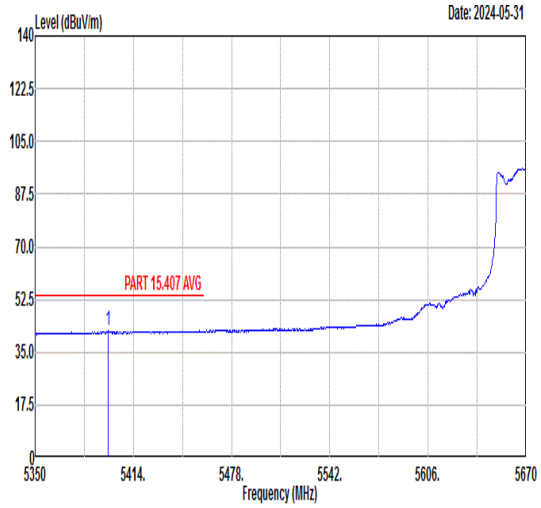
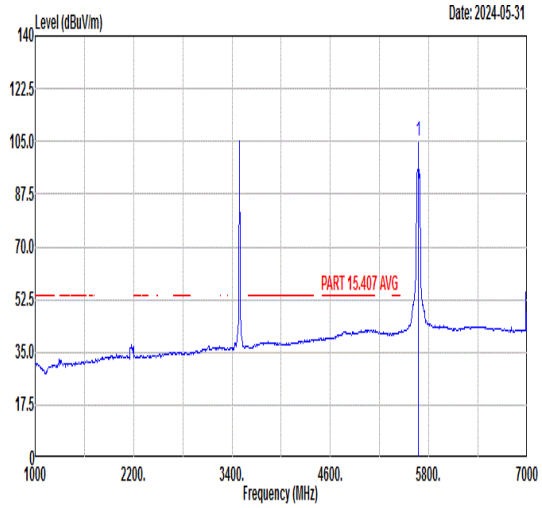
Mode	2	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B13 Link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5404.72 51.37 74.00 -22.63 38.38 35.96 9.65 32.62 219 236 PEAK 2 5463.60 52.28 68.30 -16.02 39.28 35.92 9.69 32.61 219 236 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 103.74 ------ ------ 90.37 36.14 9.90 32.67 219 236 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5442.48 42.16 54.00 -11.84 29.16 35.93 9.68 32.61 219 236 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 96.11 ------ ------ 82.74 36.14 9.90 32.67 219 236 AVERAGE

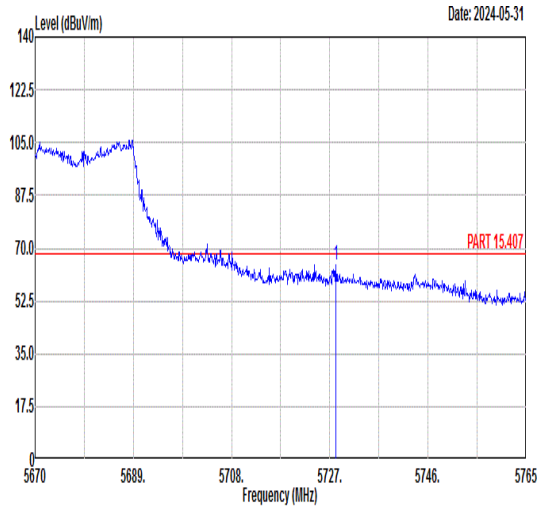
Mode	2	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B13 Link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5726.15 64.55 68.30 -3.75 51.00 36.22 10.02 32.69 219 236 PEAK	Blank

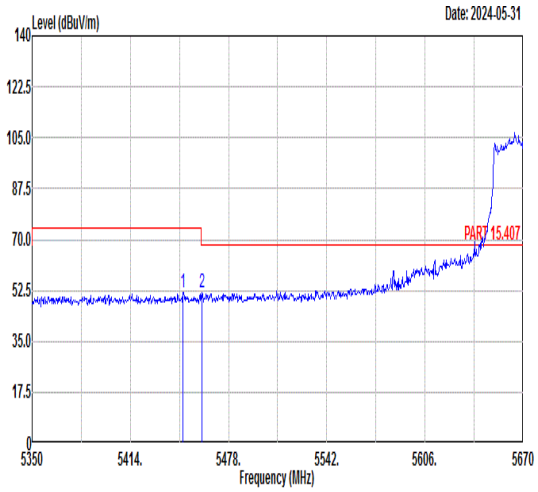
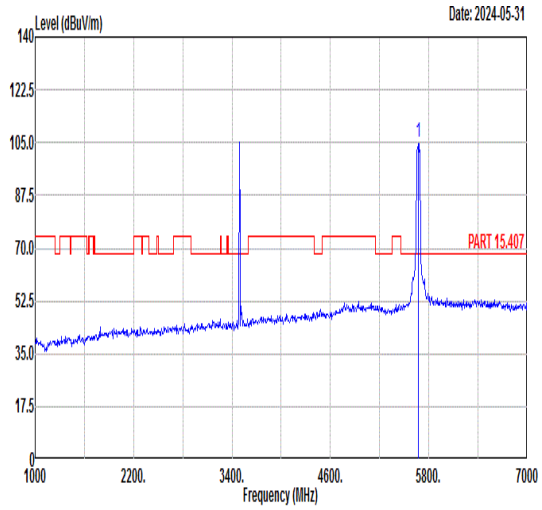
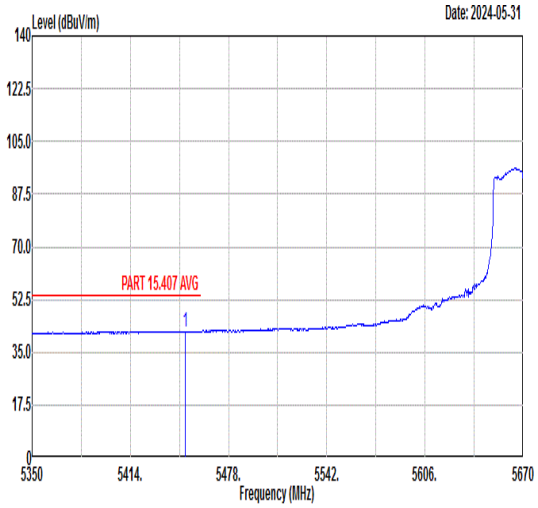
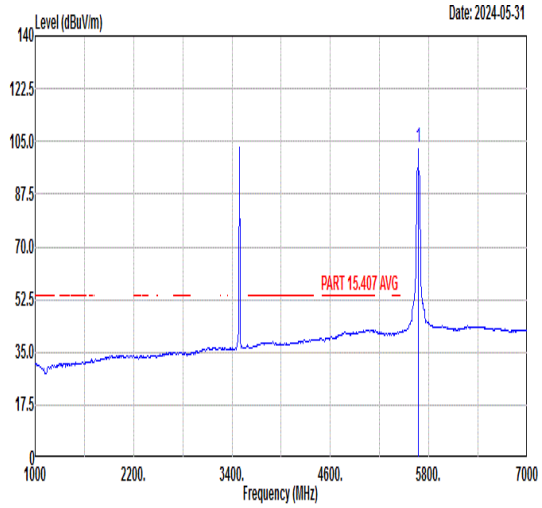
Mode	2	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B13 Link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5406.96 51.58 74.00 -22.42 38.58 35.96 9.66 32.62 304 253 PEAK 2 5468.08 52.02 68.30 -16.28 39.02 35.92 9.69 32.61 304 253 PEAK	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 105.88 ------ ------ 92.52 36.13 9.89 32.66 304 253 PEAK
Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5449.20 42.15 54.00 -11.85 29.15 35.93 9.68 32.61 304 253 AVERAGE	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5670.00 97.16 ------ ------ 83.80 36.13 9.89 32.66 304 253 AVERAGE

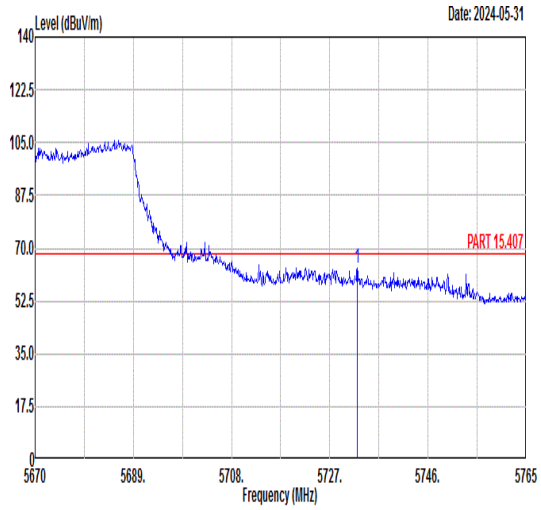
Mode	2	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B13 Link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 5732.32 64.56 68.30 -3.74 50.99 36.23 10.03 32.69 304 253 PEAK	Blank

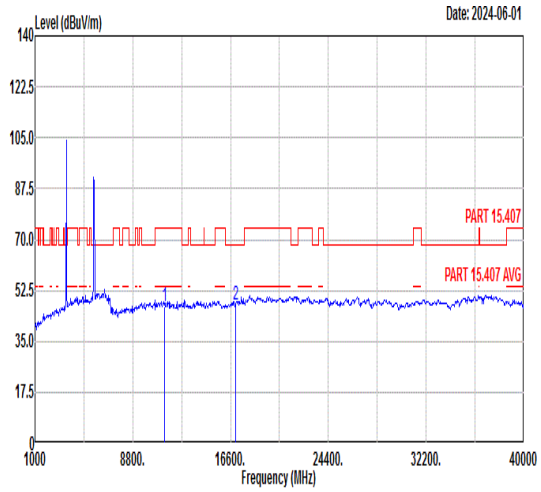
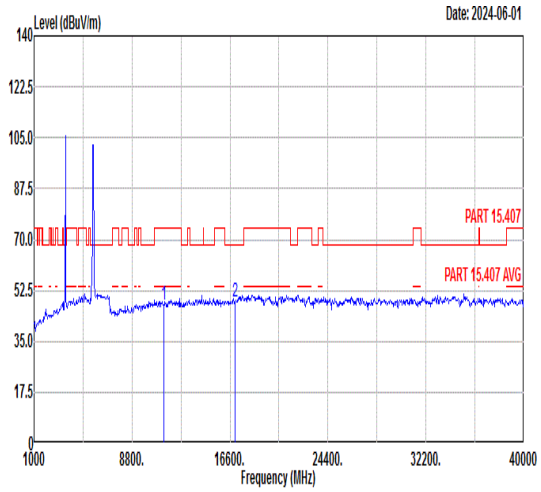
Mode	2	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B13 Link	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 48.05 74.00 -25.95 29.71 39.14 12.77 33.57 --- --- Peak 2 17010.00 47.41 68.30 -20.89 24.74 41.61 15.55 34.49 --- --- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 47.41 74.00 -26.59 29.07 39.14 12.77 33.57 --- --- Peak 2 17010.00 48.94 68.30 -19.36 26.27 41.61 15.55 34.49 --- --- Peak

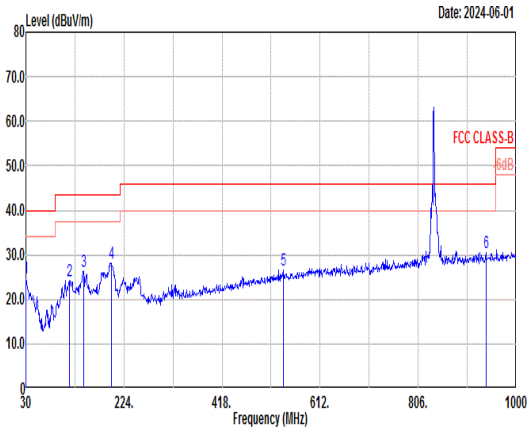
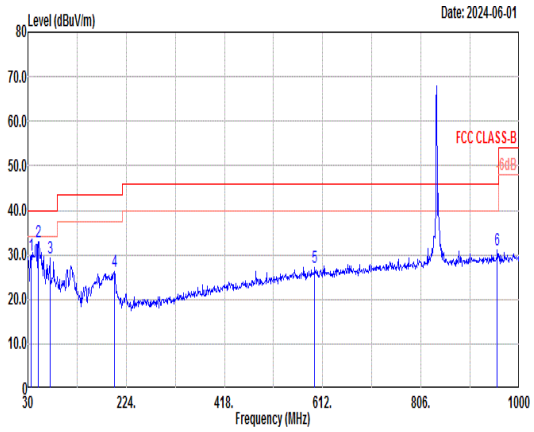
Mode	3	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B42 Link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5424.88 51.51 74.00 -22.49 38.51 35.95 9.67 32.62 219 236 PEAK 2 5469.04 50.65 68.30 -17.65 37.65 35.92 9.69 32.61 219 236 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5670.00 113.67 ------ ------ 107.87 32.58 6.62 33.40 219 236 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5397.68 42.05 54.00 -11.95 29.10 35.96 9.61 32.62 219 236 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5670.00 105.01 ------ ------ 99.21 32.58 6.62 33.40 219 236 AVERAGE

Mode	3	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B42 Link	
Pol.	Horizontal	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5728.24 64.41 68.30 -3.89 50.85 36.22 10.03 32.69 219 236 PEAK	Blank

Mode	3	
	Band Edge - L	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B42 Link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5448.24 51.54 74.00 -22.46 38.54 35.93 9.68 32.61 300 262 PEAK 2 5460.40 51.59 68.30 -16.71 38.59 35.92 9.69 32.61 300 262 PEAK	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5670.00 105.34 ------ ------ 99.54 32.58 6.62 33.40 300 262 PEAK
Avg	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5449.84 41.99 54.00 -12.01 28.99 35.93 9.68 32.61 300 262 AVERAGE	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5670.00 102.82 ------ ------ 97.02 32.58 6.62 33.40 300 262 AVERAGE

Mode	3	
	Band Edge - R	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B42 Link	
Pol.	Vertical	Fundamental
Peak	 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 5732.32 63.63 68.30 -4.67 50.06 36.23 10.03 32.69 300 262 PEAK	Blank

Mode	3	
	Harmonic	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B42 Link	
Pol.	Horizontal	Vertical
Peak Avg	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 47.23 74.00 -26.77 28.89 39.14 12.77 33.57 --- --- Peak 2 17010.00 47.55 68.30 -20.75 24.88 41.61 15.55 34.49 --- --- Peak	 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 11340.00 47.76 74.00 -26.24 29.42 39.14 12.77 33.57 --- --- Peak 2 17010.00 48.46 68.30 -19.84 25.79 41.61 15.55 34.49 --- --- Peak

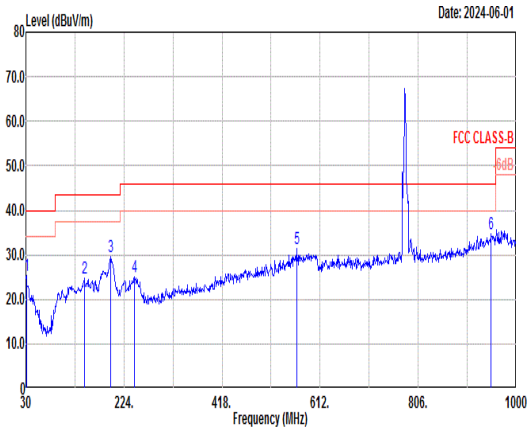
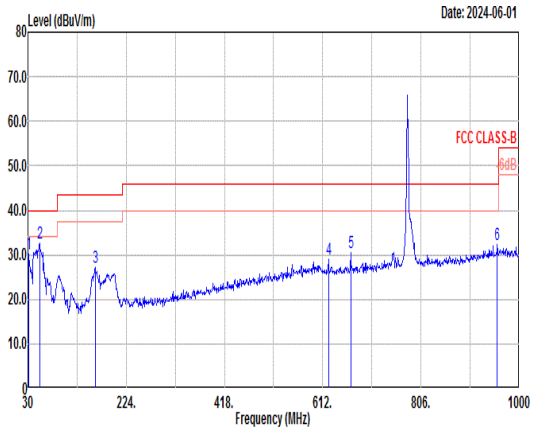
Mode	4	
	LF	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+CDMA BC0 Link	
Pol.	Horizontal	Vertical
QP/ Peak		

Horizontal:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	24.62	40.00	-15.38	30.79	24.90	0.53	31.60	---	---	Peak
2	116.33	24.15	43.50	-19.35	37.13	17.75	1.10	31.83	---	---	Peak
3	144.46	26.22	43.50	-17.28	39.44	17.27	1.23	31.72	---	---	Peak
4	198.78	28.16	43.50	-15.34	42.55	15.78	1.43	31.60	---	---	Peak
5	539.25	26.67	46.00	-19.33	31.29	24.19	2.43	31.24	---	---	Peak
6	939.86	30.63	46.00	-15.37	31.17	27.06	3.22	30.82	---	---	Peak

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	35.82	30.00	40.00	-10.00	39.42	21.72	0.58	31.72	---	---	Peak
2	50.37	32.99	40.00	-7.01	49.87	14.30	0.71	31.89	---	---	Peak
3	73.65	29.36	40.00	-10.64	47.36	12.95	0.85	31.80	---	---	Peak
4	200.72	26.34	43.50	-17.16	40.72	15.79	1.43	31.60	---	---	Peak
5	596.48	27.18	46.00	-18.82	30.98	24.76	2.55	31.11	---	---	Peak
6	956.35	30.98	46.00	-15.02	31.34	27.21	3.24	30.81	---	---	Peak

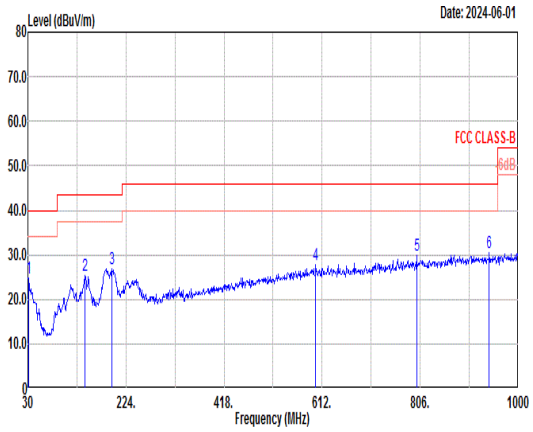
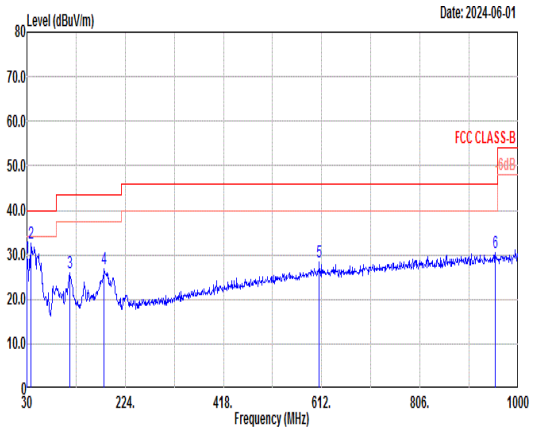
Mode	5	
	LF	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B13 Link	
Pol.	Horizontal	Vertical
QP/ Peak		

Horizontal:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	25.34	40.00	-14.66	32.05	24.37	0.54	31.62	---	---	Peak
2	145.43	24.64	43.50	-18.86	37.93	17.20	1.23	31.72	---	---	Peak
3	197.81	29.46	43.50	-14.04	43.88	15.76	1.42	31.60	---	---	Peak
4	244.37	25.11	46.00	-20.89	37.07	18.02	1.62	31.60	---	---	Peak
5	565.44	31.31	46.00	-14.69	35.54	24.45	2.49	31.17	---	---	Peak
6	950.53	34.83	46.00	-11.17	35.25	27.15	3.23	30.80	---	---	Peak

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	30.07	40.00	-9.93	36.78	24.37	0.54	31.62	---	---	Peak
2	53.28	32.57	40.00	-7.43	49.97	13.70	0.73	31.83	---	---	Peak
3	162.89	27.03	43.50	-16.47	41.31	16.09	1.30	31.67	---	---	Peak
4	623.64	28.86	46.00	-17.14	32.54	24.87	2.60	31.15	---	---	Peak
5	667.29	30.48	46.00	-15.52	33.99	25.00	2.69	31.20	---	---	Peak
6	956.35	32.33	46.00	-13.67	32.69	27.21	3.24	30.81	---	---	Peak

Mode	6	
	LF	
	U-NII-2C_5.47-5.725_802.11be EHT40_CH134_5670MHz+ BT ON + NFC ON+LTE B42 Link	
Pol.	Horizontal	Vertical
QP/ Peak		

Horizontal:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	31.94	24.72	40.00	-15.28	31.97	23.84	0.55	31.64	---	---	Peak
2	143.49	25.43	43.50	-18.07	38.60	17.33	1.23	31.73	---	---	Peak
3	196.84	26.83	43.50	-16.67	41.28	15.74	1.42	31.61	---	---	Peak
4	599.39	27.63	46.00	-18.37	31.38	24.79	2.56	31.10	---	---	Peak
5	799.21	29.76	46.00	-16.24	31.53	26.39	2.94	31.10	---	---	Peak
6	942.77	30.48	46.00	-15.52	30.99	27.08	3.22	30.81	---	---	Peak

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	29.36	40.00	-10.64	35.53	24.90	0.53	31.60	---	---	Peak
2	37.76	32.58	40.00	-7.42	43.09	20.66	0.59	31.76	---	---	Peak
3	114.39	26.03	43.50	-17.47	39.11	17.67	1.09	31.84	---	---	Peak
4	182.29	26.88	43.50	-16.62	41.70	15.44	1.38	31.64	---	---	Peak
5	607.15	28.41	46.00	-17.59	32.13	24.82	2.57	31.11	---	---	Peak
6	954.41	30.34	46.00	-15.66	30.72	27.19	3.24	30.81	---	---	Peak

Note: For all plots above, the over limit line signals are Fundamental signal which can be ignored.