



Partial Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2407-1
FCC ID : IHDT56AS2
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(F)
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) : May 22, 2024 ~ Jun. 04, 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



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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
441212-01	Rev. 01	Initial issue of report	Jun. 03, 2024
441212-01	Rev. 02	Added RSE test data for 5G NR N41	Jun. 05, 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/manufacture 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	XT2407-1
FCC ID	IHDT56AS2
IMEI Code	Conducted: 355519300014198/355519300014206 Radiation: 355519300014636/355519300014644 Conduction: 355519300014677/355519300014685 DFS/CBP: 355519300014073/355519300014081
HW Version	DVT2
SW Version	U3UW34.46
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.
	CO01-SZ TH01-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.
	03CH01-SZ 03CH04-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24
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(F)
- 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(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(US)	Brand Name	Motorola(chenyang)	Model Name	MC-681N
AC Adapter 1(AR)	Brand Name	Motorola(chenyang)	Model Name	MC-686N
AC Adapter 1(CHILE)	Brand Name	Motorola(chenyang)	Model Name	MC-689N
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(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-686N
Battery 1	Brand Name	Motorola(SUNWODA)	Model Name	QR50
Battery 2	Brand Name	Motorola(ATL)	Model Name	QR50
USB Cable 1	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 2	Brand Name	Motorola(Saibao)	Model Name	SC18D71644



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2407-1, FCC ID: IHDT56AS2) is electrically identical to the reference device (Model: XT2407-2, FCC ID: IHDT56AS3) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX, DCD) and FCC Part 15E (equipment class: NII, 6XD) and FCC Part 22, 24, 27 (equipment class: PCE) referencing the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AS2 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AS3 and FCC ID: IHDT56AS2 is as below:

- Remove LTE 25/26/41C and 5G NR n2/n66/n78(part27Q).
- Add LTE B20/32/39/43 and 5G NR n20/n26/n75/n77(part27O)/n78(part27O).

Other differences and all the details of similarity and difference can be found in the confidential documents (XT2407-1_Operational Description of Product Equality Declaration).



2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	IHDT56AS3	Original Grant	FR441212A	IHDT56AS2	All sections applicable
	DTS (BLE)	2400~2483.5	IHDT56AS3	Original Grant	FR441212B	IHDT56AS2	All sections applicable
	DTS (WLAN)	2400~2483.5	IHDT56AS3	Original Grant	FR441212C	IHDT56AS2	All sections applicable
	DXX (NFC)	13.56	IHDT56AS3	Original Grant	FR441212D	IHDT56AS2	All sections applicable
	DCD (WPT)	0.115~0.145	IHDT56AS3	Original Grant	FR441212E	IHDT56AS2	All sections applicable
15E	U-NII	5180~5240	IHDT56AS3	Original Grant	FR441212F	IHDT56AS2	All sections applicable
		5260~5320	IHDT56AS3	Original Grant	FR441212F	IHDT56AS2	All sections applicable
		5500~5720	IHDT56AS3	Original Grant	FR441212F	IHDT56AS2	All sections applicable
		5745~5825	IHDT56AS3	Original Grant	FR441212F	IHDT56AS2	All sections applicable
		5260~5320 5500~5720	IHDT56AS3	Original Grant	FZ441212	IHDT56AS2	All sections applicable
	6XD	5925~7125	IHDT56AS3	Original Grant	FR441212G	IHDT56AS2	All sections applicable
22, 24, 27	PCE (GSM)	GSM 850/1900	IHDT56AS3	Original Grant	FG441212A	IHDT56AS2	All sections applicable
	PCE (WCDMA)	Band II, IV, V	IHDT56AS3	Original Grant	FG441212A	IHDT56AS2	All sections applicable
	PCE (LTE)	B2/4/5/12/13/17/66	IHDT56AS3	Original Grant	FG441212B	IHDT56AS2	All sections applicable
	PCE (LTE)	B7/7C/38/38C/41	IHDT56AS3	Original Grant	FG441212C	IHDT56AS2	All sections applicable
	PCE (NR)	n5/n7/n38/n41	IHDT56AS3	Original Grant	FG441212G	IHDT56AS2	RSE

Remark: For 5G NR Bands, only RSE spot check shown in this report, other conducted spot check test data are shown separately.

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 d_{dB} from the reference data satisfies the following condition:

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

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB} , \text{ for } M_{dB} > 60 \text{ dB}$$

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	IHDT56AS3 Parent Worst mode Test Result	IHDT56AS2 Variant Check Test Result	Deviation	Limit
BT 1Mbps (DH5-CH78)	Number of Channels	79	79	0	3
	Hopping Channel Separation	1.01	0.99	0.02	3
	Dwell Time of Each Channel	0.308	0.308	0	3
	20dB Bandwidth	0.94	0.95	0.01	3
	99% Bandwidth	0.84	0.85	0.01	3
	Conducted Band Edges	-33.88	-34.10	0.22	3
	Conducted Spurious Emission	-46.55	-46.53	0.02	3
	Radiated Band Edges and Radiated Spurious Emission	58.23	57.84	0.39	3
BT	AC Conducted Emission	62.55	62.12	0.43	3
BLE (2M-CH39)	6dB Bandwidth	0.67	0.67	0	3
	99% Bandwidth	1.02	1.01	0.01	3
	Power Spectral Density	-5.56	-5.66	0.10	3
	Conducted Band Edges and Spurious Emission	-53.36	-52.83	0.53	3



	Conducted Spurious Emission	-47.19	-46.69	0.50	3
	Radiated Band Edges and Spurious Emission	42.12	41.98	0.14	3
BLE	AC Conducted Emission	62.55	62.12	0.43	3
WLAN 2.4G (802.11ax HE20-CH01)	6dB Bandwidth	17.63	18.40	0.77	3
	99% Bandwidth	18.88	18.83	0.05	3
	Power Spectral Density	-7.36	-7.71	0.35	3
	Conducted Band Edges and Spurious Emission	-27.82	-26.86	0.96	3
	Conducted Spurious Emission	-46.76	-46.45	0.21	3
	Radiated Band Edges and Spurious Emission	50.74	50.85	0.11	3
WLAN 2.4G	AC Conducted Emission	62.31	62.71	0.4	3
NFC	20dB Emission Bandwidth	2.58	2.58	0	3
	99% Occupied Bandwidth	2.18	2.19	0.01	3
	Frequency Stability (ppm)	-2.21	-2.58	0.37	3
	Field Strength of Fundamental	56.09	56.86	-0.77	3
	Radiated Spurious Emissions	29.44	31.91	-2.47	3
	AC Power Line Conducted Emissions	62.31	62.71	0.4	3
WPT	20dB Emission Bandwidth	2.58	2.57	0.01	3
	99% Occupied Bandwidth	2.17	2.18	0.01	3
	Radiated Emission	23.65	23.66	-0.01	3
	Field Strength of Fundamental Emissions	79.10	80.34	-1.24	3
	AC Conducted Emission	53.39	55.60	2.21	3
WLAN 5G (802.11ax HE20 CH36)	26dB&99% Emission Bandwidth	32.58	34.56	1.98	3
	Power Spectral Density	3.89	3.87	0.02	3
	Radiated Band Edges and Spurious Emission	50.9	49.67	1.23	3
WLAN 5G	AC Conducted Emission	62.51	62.33	0.16	3
WLAN 5G	DFS	0.999233	0.486416	0.512817	3
WLAN 6G (802.11ax HE40 CH227)	26dB Emission Bandwidth	165.60	164.64	0.96	3
	99% Occupied Bandwidth	155.60	155.60	0	3
	Fundamental Power Spectral Density	-4.93	-5.15	0.22	3
	In-Band Emissions (Channel Mask)	-24.81	-24.06	0.75	3
	Contention Based Protocol	-72.28	-72.34	0.06	3
	Radiated Band Edges and Spurious Emission	48.91	46.04	2.87	3
WLAN 6G	AC Conducted Emission	62.74	62.33	0.41	3
Part 22/24/27 (LTE Band 41)	26dB Bandwidth	19.1	19.14	0.04	3
	Peak-to-Average Ratio	5.97	5.83	0.14	3



	Occupied Bandwidth	17.94	17.98	0.04	3
	Conducted Band Edge Measurement	-26.07	-26.60	0.53	3
	Conducted Spurious Emission	-36.6	-37.12	0.52	3
	Frequency Stability Temperature & Voltage	0.6	1.1	0.5	3
	Radiated Spurious Emission	-49.87	-51.60	1.73	3
Part 22/24/27 (5G NR n38)	Radiated Spurious Emission	-43.39	-43.36	-0.03	3

Test Item	Mode	IHDT56AS3 Parent Worst mode Test Result	IHDT56AS2 Variant Check Test Result	Deviation	Limit
Conducted Output Power	BT BR/EDR	18.00	17.90	0.10	3
	BLE 1Mbps	9.40	9.28	0.12	3
	BLE 2Mbps	9.36	9.22	0.14	3
	11b, 2.4GHz	26.08	25.79	0.29	3
	11g, 2.4GHz	28.24	28.03	0.21	3
	11n HT20, 2.4GHz	28.06	27.95	0.11	3
	11n HT40, 2.4GHz	27.15	26.87	0.28	3
	11ax HE20, 2.4GHz	28.25	28.21	0.04	3
	11ax HE40, 2.4GHz	27.33	27.21	0.12	3
	11a, U-NII-3	21.14	20.96	0.18	3
	11ax HE20, U-NII-3	21.08	21.01	0.07	3
	11ax HE40, U-NII-3	21.13	21.05	0.08	3
	11ax HE80, U-NII-3	20.61	20.42	0.19	3
	11ax HE160, U-NII-2C	16.42	16.25	0.17	3
	11a, U-NII-5	12.93	12.71	0.22	3
	11ax HE20, U-NII-5	12.90	12.78	0.12	3
	11ax HE40, U-NII-5	13.02	12.88	0.14	3
	11ax HE80, U-NII-5	14.05	13.89	0.16	3
	11ax HE160, U-NII-5	14.31	13.95	0.36	3
	GSM850	32.92	32.73	0.19	3
	GSM1900	29.84	29.56	0.28	3
	WCDMA B2	23.12	22.89	0.23	3
	WCDMA B4	22.99	22.81	0.18	3
	WCDMA B5	22.97	22.86	0.11	3
	LTE B2	22.89	22.77	0.12	3
	LTE B4	22.53	22.26	0.27	3
	LTE B5	22.81	22.68	0.13	3
	LTE B7	23.36	23.12	0.24	3
	LTE B12	23.07	22.88	0.19	3
	LTE B13	23.32	23.15	0.17	3
	LTE B17	23.05	22.9	0.15	3



	LTE B38	22.88	22.62	0.26	3
	LTE B41	23.70	23.46	0.24	3
	LTE B66	22.58	22.4	0.18	3
	LTE CA_B7C	23.42	23.01	0.41	3
	LTE CA_B38C	23.35	23.08	0.27	3

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	May 24, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	May 24, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Aug. 21, 2023	May 24, 2024	Aug. 20, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	May 27, 2024~Jun. 03, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	May 27, 2024~Jun. 03, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	May 27, 2024~Jun. 03, 2024	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	May 27, 2024~Jun. 03, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	May 27, 2024~Jun. 03, 2024	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	May 27, 2024~Jun. 03, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000MHz	Apr. 09, 2024	May 27, 2024~Jun. 03, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	May 27, 2024~Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 18, 2023	May 27, 2024~Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	May 27, 2024~Jun. 03, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 18, 2023	May 27, 2024~Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 27, 2024~Jun. 03, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 27, 2024~Jun. 03, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	May 24, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	May 24, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	May 24, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	May 24, 2024	Jul. 06, 2024	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	May 23, 2024	Dec. 27, 2024	Conducted (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	May 23, 2024	Apr. 08, 2025	Conducted (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 05, 2023	May 23, 2024	Sep. 04, 2024	Conducted (DFS01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	May 23, 2024	Dec. 27, 2024	CBP (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	May 23, 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
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	May 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	May 24, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	May 24, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	May 24, 2024	May 08, 2025	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	May 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	May 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 24, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 24, 2024	NCR	Radiation (03CH04-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	May 24, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	May 24, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	May 24, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	May 24, 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	May 28, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	May 28, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	May 28, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	May 28, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	May 22, 2024~Jun. 04, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	May 22, 2024~Jun. 04, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	May 22, 2024~Jun. 04, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09 2024	May 22, 2024~Jun. 04, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	May 22, 2024~Jun. 04, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	May 22, 2024~Jun. 04, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	May 22, 2024~Jun. 04, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	May 22, 2024~Jun. 04, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	May 22, 2024~Jun. 04, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	May 22, 2024~Jun. 04, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	May 22, 2024~Jun. 04, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 22, 2024~Jun. 04, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 22, 2024~Jun. 04, 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
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03CH01-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB
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03CH04-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 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
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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

Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	HuaCong Liang	Relative Humidity :	50%
		Temperature :	20~22℃

<Co-location>

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	Co-location	8+7	2.4g WIFI 802.11ax HE20	11	2462	MCS0	Full RU	-
		4	B42 Link + BT ON + NFC ON	-	-	-	-	-
Mode 2	Co-location	8+7	2.4g WIFI 802.11ax HE20	11	2462	MCS0	Full RU	-
		0	N26 Link + BT ON + NFC ON	-	-	-	-	-
Mode 3	Co-location	8+7	2.4g WIFI 802.11ax HE20	11	2462	MCS0	Full RU	-
		4	N77 Link + BT ON + NFC ON	-	-	-	-	-
Mode 4	Co-location	8+7	802.11ax HE20 TX+B42 Link + BT ON + NFC ON	11	2462	MCS0	Full RU	LF
Mode 5	Co-location	8+7	802.11ax HE20 TX+N26 Link + BT ON + NFC ON	11	2462	MCS0	Full RU	LF
Mode 6	Co-location	8+7	802.11ax HE20 TX+N77 Link + BT ON + NFC ON	11	2462	MCS0	Full RU	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11ax HE20	11	2483.52	50.70	54.00	-3.30	V	Average	Pass	Band Edge
	802.11ax HE20	11	7386.00	47.62	74.00	-26.38	H	Peak	Pass	Harmonic
2	802.11ax HE20	11	2483.52	50.80	54.00	-3.20	V	Average	Pass	Band Edge
	802.11ax HE20	11	7386.00	47.45	74.00	-26.55	H	Peak	Pass	Harmonic
3	802.11ax HE20	11	2483.50	50.72	54.00	-3.28	V	Average	Pass	Band Edge
	802.11ax HE20	11	7386.00	47.07	74.00	-26.93	V	Peak	Pass	Harmonic
4	802.11ax HE20	11	51.34	35.14	40	-4.86	V	Peak	Pass	LF
5	802.11ax HE20	11	51.34	35.48	40	-4.52	V	Peak	Pass	LF
6	802.11ax HE20	11	55.22	34.96	40	-5.04	V	Peak	Pass	LF

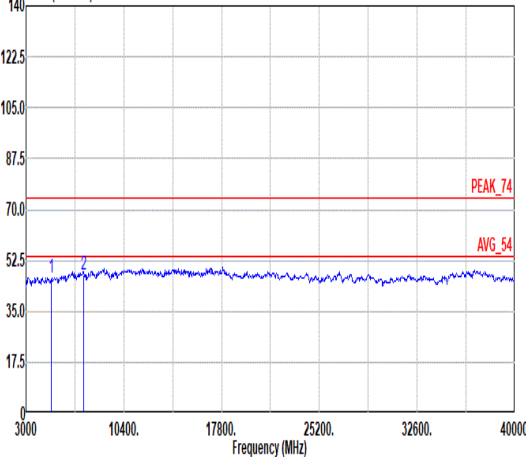
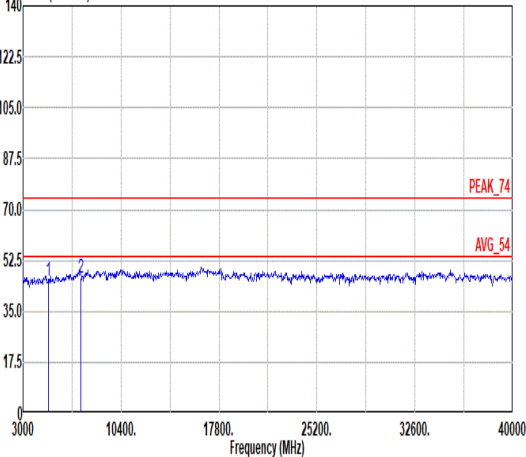


Mode	1																																																																																					
	Band Edge																																																																																					
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ANT	8+7																																																																																					
Pol.	Horizontal					Fundamental																																																																																
Peak	Level (dBuV/m) Date: 2024-06-03 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2484.04</td><td>64.63</td><td>74.00</td><td>-9.37</td><td>56.39</td><td>32.46</td><td>7.88</td><td>32.10</td><td>-- Peak</td></tr></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	deg	1	2484.04	64.63	74.00	-9.37	56.39	32.46	7.88	32.10	-- Peak	Level (dBuV/m) Date: 2024-06-03 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2462.00</td><td>105.26</td><td>-----</td><td>-----</td><td>97.07</td><td>32.42</td><td>7.86</td><td>32.09</td><td>-- Peak</td></tr></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	cm	deg	1	2462.00	105.26	-----	-----	97.07	32.42	7.86	32.09	-- Peak
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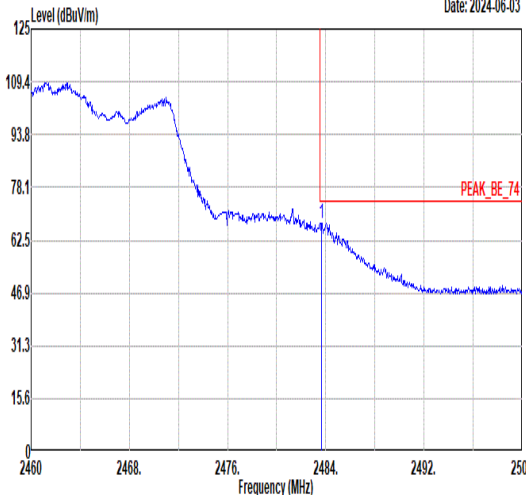
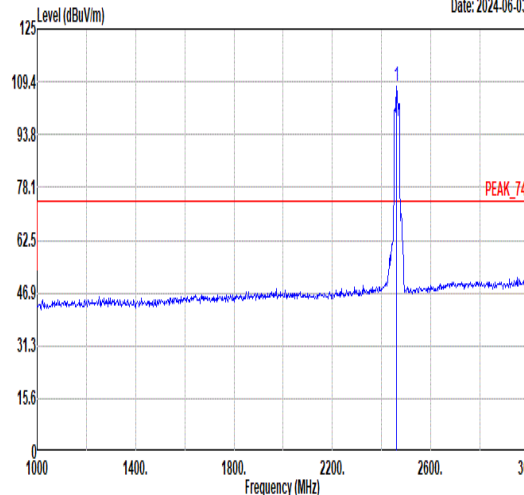
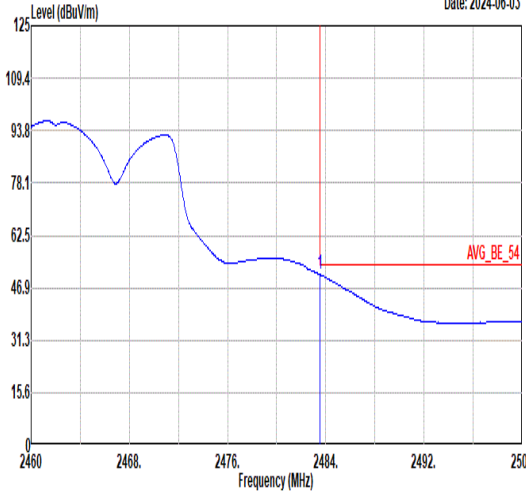
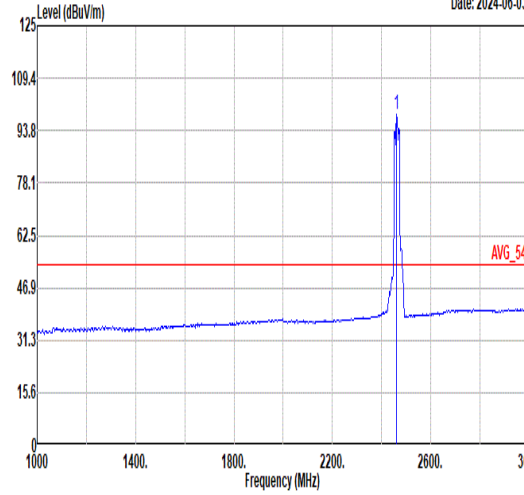


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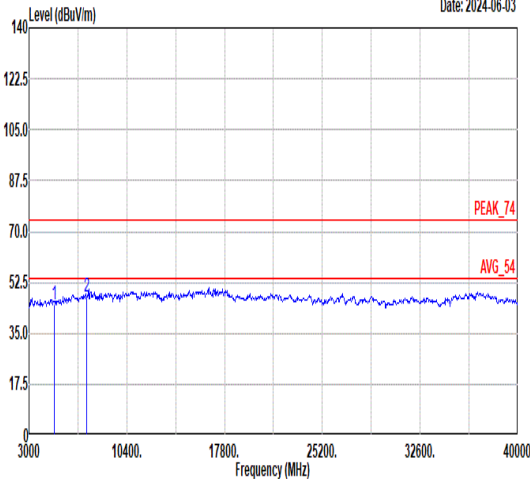
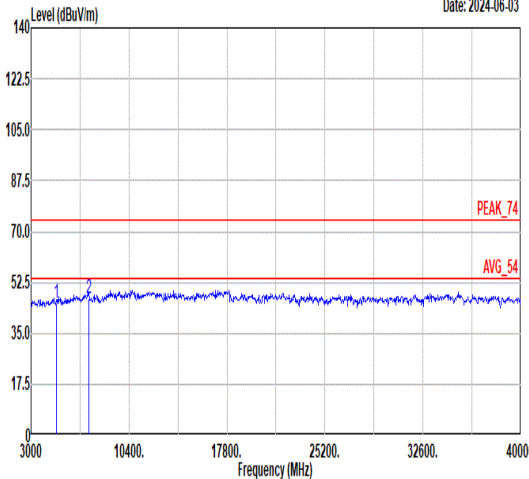


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QPI Peak	Date: 2024-06-03 Level (dBuV/m) FCC CLASS-B -6dB Frequency (MHz) <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>52.31</td><td>25.76</td><td>40.00</td><td>-14.24</td><td>44.11</td><td>20.27</td><td>1.32</td><td>39.94</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>89.17</td><td>24.54</td><td>43.50</td><td>-18.96</td><td>48.86</td><td>14.00</td><td>1.72</td><td>40.04</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>202.66</td><td>28.14</td><td>43.50</td><td>-15.36</td><td>49.09</td><td>16.45</td><td>2.59</td><td>39.99</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>343.31</td><td>24.79</td><td>46.00</td><td>-21.21</td><td>40.52</td><td>20.79</td><td>3.34</td><td>39.86</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>455.83</td><td>25.89</td><td>46.00</td><td>-20.11</td><td>38.54</td><td>23.23</td><td>3.84</td><td>39.72</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>704.15</td><td>27.88</td><td>46.00</td><td>-18.12</td><td>35.69</td><td>27.00</td><td>4.75</td><td>39.56</td><td>--</td><td>--</td><td>Peak</td></tr></table>												Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	52.31	25.76	40.00	-14.24	44.11	20.27	1.32	39.94	--	--	Peak	2	89.17	24.54	43.50	-18.96	48.86	14.00	1.72	40.04	--	--	Peak	3	202.66	28.14	43.50	-15.36	49.09	16.45	2.59	39.99	--	--	Peak	4	343.31	24.79	46.00	-21.21	40.52	20.79	3.34	39.86	--	--	Peak	5	455.83	25.89	46.00	-20.11	38.54	23.23	3.84	39.72	--	--	Peak	6	704.15	27.88	46.00	-18.12	35.69	27.00	4.75	39.56	--	--	Peak	Date: 2024-06-03 Level (dBuV/m) FCC CLASS-B -6dB Frequency (MHz) <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>55.22</td><td>34.96</td><td>40.00</td><td>-5.04</td><td>53.45</td><td>20.10</td><td>1.36</td><td>39.95</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>84.32</td><td>27.75</td><td>40.00</td><td>-12.25</td><td>51.41</td><td>14.70</td><td>1.67</td><td>40.03</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>179.38</td><td>27.74</td><td>43.50</td><td>-15.76</td><td>47.21</td><td>18.11</td><td>2.43</td><td>40.01</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>342.34</td><td>22.38</td><td>46.00</td><td>-23.62</td><td>38.12</td><td>20.79</td><td>3.33</td><td>39.86</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>576.11</td><td>25.91</td><td>46.00</td><td>-20.09</td><td>35.92</td><td>25.31</td><td>4.33</td><td>39.65</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>808.91</td><td>29.93</td><td>46.00</td><td>-16.07</td><td>35.99</td><td>28.29</td><td>5.11</td><td>39.46</td><td>--</td><td>--</td><td>Peak</td></tr></table>												Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	55.22	34.96	40.00	-5.04	53.45	20.10	1.36	39.95	--	--	Peak	2	84.32	27.75	40.00	-12.25	51.41	14.70	1.67	40.03	--	--	Peak	3	179.38	27.74	43.50	-15.76	47.21	18.11	2.43	40.01	--	--	Peak	4	342.34	22.38	46.00	-23.62	38.12	20.79	3.33	39.86	--	--	Peak	5	576.11	25.91	46.00	-20.09	35.92	25.31	4.33	39.65	--	--	Peak	6	808.91	29.93	46.00	-16.07	35.99	28.29	5.11	39.46	--	--	Peak
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																																																													
1	52.31	25.76	40.00	-14.24	44.11	20.27	1.32	39.94	--	--	Peak																																																																																																																																																																																																													
2	89.17	24.54	43.50	-18.96	48.86	14.00	1.72	40.04	--	--	Peak																																																																																																																																																																																																													
3	202.66	28.14	43.50	-15.36	49.09	16.45	2.59	39.99	--	--	Peak																																																																																																																																																																																																													
4	343.31	24.79	46.00	-21.21	40.52	20.79	3.34	39.86	--	--	Peak																																																																																																																																																																																																													
5	455.83	25.89	46.00	-20.11	38.54	23.23	3.84	39.72	--	--	Peak																																																																																																																																																																																																													
6	704.15	27.88	46.00	-18.12	35.69	27.00	4.75	39.56	--	--	Peak																																																																																																																																																																																																													
Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																																																													
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																																																														
1	55.22	34.96	40.00	-5.04	53.45	20.10	1.36	39.95	--	--	Peak																																																																																																																																																																																																													
2	84.32	27.75	40.00	-12.25	51.41	14.70	1.67	40.03	--	--	Peak																																																																																																																																																																																																													
3	179.38	27.74	43.50	-15.76	47.21	18.11	2.43	40.01	--	--	Peak																																																																																																																																																																																																													
4	342.34	22.38	46.00	-23.62	38.12	20.79	3.33	39.86	--	--	Peak																																																																																																																																																																																																													
5	576.11	25.91	46.00	-20.09	35.92	25.31	4.33	39.65	--	--	Peak																																																																																																																																																																																																													
6	808.91	29.93	46.00	-16.07	35.99	28.29	5.11	39.46	--	--	Peak																																																																																																																																																																																																													

**<5G NR>**

n41 SA / NR 40MHz / QPSK(ANT2)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5089.00	-57.15	-25	-32.15	-81.43	-62.71	7.14	12.70	H
	7633.50	-52.75	-25	-27.75	-79.29	-56.05	8.30	11.60	H
	10178.00	-51.85	-25	-26.85	-82.87	-53.37	10.48	12.00	H
	5089.00	-56.10	-25	-31.10	-81.36	-61.66	7.14	12.70	V
	7633.50	-43.52	-25	-18.52	-70.74	-46.82	8.30	11.60	V
	10178.00	-50.72	-25	-25.72	-82.96	-52.24	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.