



Spot Check Evaluation

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2521-3, XT2521-5
FCC ID : IHDT56AT2
STANDARD : 47 CFR Part 22(H), 24(E), 27(M)
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : Sep. 26, 2024 ~ Oct. 22, 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
482104-01	Rev. 01	Initial issue of report	Oct. 28, 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	XT2521-3, XT2521-5
FCC ID	IHDT56AT2
IMEI Code	Conducted: 354293690013498/354293690013506 Radiation: 354293690013878/354293690013886(BT/WLAN) 350288530017992/350288530018008(WWAN) Conduction: 354293690013597/354293690013605
HW Version	DVT2
SW Version	VVTA35.44
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	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b
3.	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 22(H), 24(E), 27(M)
- ♦ 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				
XT2521-3				
AC Adapter 1(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-201L
AC Adapter 1(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-202L
AC Adapter 1(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-203L
AC Adapter 1(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-204
AC Adapter 1(AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-205L
AC Adapter 1(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-206L
AC Adapter 1(PRC)	Brand Name	Motorola(AOHAI)	Model Name	MC-208L
AC Adapter 2(US)	Brand Name	Motorola(SALCOMP)	Model Name	MC-201L
AC Adapter 2(EU)	Brand Name	Motorola(SALCOMP)	Model Name	MC-202L
AC Adapter 2(UK)	Brand Name	Motorola(SALCOMP)	Model Name	MC-203L
AC Adapter 2(AU)	Brand Name	Motorola(SALCOMP)	Model Name	MC-205L
AC Adapter 2(AR)	Brand Name	Motorola(SALCOMP)	Model Name	MC-206L
AC Adapter 2(BR)	Brand Name	Motorola(SALCOMP)	Model Name	MC-207L
AC Adapter 2(PRC)	Brand Name	Motorola(SALCOMP)	Model Name	MC-208L
AC Adapter 2(CHILE)	Brand Name	Motorola(SALCOMP)	Model Name	MC-209L
AC Adapter 3(US)	Brand Name	Motorola(CHENYANG)	Model Name	MC-201L
AC Adapter 3(EU)	Brand Name	Motorola(CHENYANG)	Model Name	MC-202L
AC Adapter 3(AR)	Brand Name	Motorola(CHENYANG)	Model Name	MC-206L
AC Adapter 3(BR)	Brand Name	Motorola(CHENYANG)	Model Name	MC-207L
Battery 1	Brand Name	Motorola(ATL)	Model Name	RL52
Battery 2	Brand Name	Motorola(Jiade)	Model Name	RL52
Battery 3	Brand Name	Motorola(COSMX)	Model Name	RL52
USB Cable 1	Brand Name	Motorola(Yihuaxing)	Model Name	T365-020 T365-020-01 T365-020-02
USB Cable 2	Brand Name	Motorola(WASHIN)	Model Name	HX-TL-01 HX-TL-08 HX-TL-07
USB Cable 3	Brand Name	Motorola(Juwei)	Model Name	JWUB1614-T03H JWUB1705-T03H JWUB1856-T03H
USB Cable 4	Brand Name	Motorola(I-SHENG)	Model Name	SC18D38574



Specification of Accessory				
XT2521-5				
AC Adapter 1(US)	Brand Name	Motorola(SALCOMP)	Model Name	MC-331L
AC Adapter 1(EU)	Brand Name	Motorola(SALCOMP)	Model Name	MC-332L
AC Adapter 1(UK)	Brand Name	Motorola(SALCOMP)	Model Name	MC-333L
AC Adapter 1(AU)	Brand Name	Motorola(SALCOMP)	Model Name	MC-335L
AC Adapter 1(AR)	Brand Name	Motorola(SALCOMP)	Model Name	MC-336L
AC Adapter 1(BR)	Brand Name	Motorola(SALCOMP)	Model Name	MC-337L
AC Adapter 1(PRC)	Brand Name	Motorola(SALCOMP)	Model Name	MC-338L
AC Adapter 1(CHILE)	Brand Name	Motorola(SALCOMP)	Model Name	MC-339L
AC Adapter 1(KR)	Brand Name	Motorola(SALCOMP)	Model Name	MC-330L
AC Adapter 2(US)	Brand Name	Motorola(CHENYANG)	Model Name	MC-331L
AC Adapter 2(EU)	Brand Name	Motorola(CHENYANG)	Model Name	MC-332L
AC Adapter 2(UK)	Brand Name	Motorola(CHENYANG)	Model Name	MC-333L
AC Adapter 2(AR)	Brand Name	Motorola(CHENYANG)	Model Name	MC-336L
AC Adapter 2(BR)	Brand Name	Motorola(CHENYANG)	Model Name	MC-337L
AC Adapter 2(PRC)	Brand Name	Motorola(CHENYANG)	Model Name	MC-338L
Battery 1	Brand Name	Motorola(ATL)	Model Name	RL60
Battery 2	Brand Name	Motorola(Sunwoda)	Model Name	RL60
USB Cable 1	Brand Name	Motorola(Yihuaxing)	Model Name	T365-020 T365-020-01 T365-020-02
USB Cable 2	Brand Name	Motorola(WASHIN)	Model Name	HX-TL-01 HX-TL-08 HX-TL-07
USB Cable 3	Brand Name	Motorola(Juwei)	Model Name	JWUB1614-T03H JWUB1705-T03H JWUB1856-T03H
USB Cable 4	Brand Name	Motorola(I-SHENG)	Model Name	SC18D38574



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: XT2521-3, XT2521-5, FCC ID: IHDT56AT2) is electrically identical to the reference device (Model: XT2521-2, FCC ID: IHDT56AT1) for the portions of the circuitry corresponding to the data being re-used, following the FCC KDB 484596 D01 Referencing Test Data v02r03.

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.

The criteria set in section 3 of KDB 484596 D01 v02r03 is followed to determine whether the data referencing is justified.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AT2 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AT1 and FCC ID: IHDT56AT2 is as below:

- Remove WCDMA IV, LTE B4/13/26/66.
- Add LTE B20/41.

Other differences and all the details of similarity and difference can be found in the confidential documents (IHDT56AT2 Operational Description of Product Equality Declaration).



2.3 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	IHDT56AT1	Full test	FR482104A	IHDT56AT2	Spot check	Y, All test items
	DTS (BLE)	2400~2483.5	IHDT56AT1	Full test	FR482104B	IHDT56AT2	Spot check	Y, All test items
	DTS (WLAN)	2400~2483.5	IHDT56AT1	Full test	FR482104C	IHDT56AT2	Spot check	Y, All test items
15E	U-NII	5180~5240	IHDT56AT1	Full test	FR482104E	IHDT56AT2	Spot check	Y, All test items
		5260~5320	IHDT56AT1	Full test	FR482104E	IHDT56AT2	Spot check	Y, All test items
		5500~5720	IHDT56AT1	Full test	FR482104E	IHDT56AT2	Spot check	Y, All test items
		5745~5825	IHDT56AT1	Full test	FR482104E	IHDT56AT2	Spot check	Y, All test items
		5260~5320 5500~5720	IHDT56AT1	Full test	FZ482104	IHDT56AT2	Spot check	Y, All test items
22, 24, 27	PCE (GSM)	GSM 850/1900	IHDT56AT1	Full test	FG482104A	IHDT56AT2	Spot check	Y, All test items
	PCE (WCDMA)	Band II/V	IHDT56AT1	Full test	FG482104A	IHDT56AT2	Spot check	Y, All test items
	PCE (LTE)	B2/7/38	IHDT56AT1	Full test	FG482104B	IHDT56AT2	Spot check	Y, All test items

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

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	IHDT56AT1 Parent Worst mode Test Result	IHDT56AT2 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
BT 1Mbps (CH78)	Number of Channels	79 MHz	79 MHz	0 MHz	3
	Hopping Channel Separation	1.00 MHz	0.99 MHz	0.01 MHz	3
	Dwell Time of Each Channel	0.31 s	0.31s	0 s	3
	20dB Bandwidth	0.87 MHz	0.85 MHz	0.02 MHz	3
	99% Bandwidth	0.76 MHz	0.75 MHz	0.01 MHz	3
	Peak Output Power	10.5 dBm	9.8 dBm	0.70 dB	3
	Conducted Band Edges	-51.29 dBm	-54.11 dBm	2.82 dB	3
	Conducted Spurious Emission	-37.20 dBm	-36.63 dBm	0.57 dB	3
BT 1Mbps (CH78)	Radiated Band Edges and Radiated Spurious Emission	44.53	47.49	2.96	3
BT	AC Conducted Emission	52.85	50.22	2.63	3
BLE	6dB Bandwidth	0.70 MHz	0.70 MHz	0 MHz	3
	99% Bandwidth	1.06 MHz	1.05 MHz	0.01 MHz	3
	Peak Output Power	2.65 dBm	2.60 dBm	0.05 dB	3
	Power Spectral Density	-3.39dBm	-3.56 dBm	0.17dB	3
	Conducted Band Edges	-56.32 dBm	-56.94 dBm	0.62 dB	3
	Conducted Spurious Emission	-47.64 dBm	-45.11 dBm	2.53 dB	3
BLE	Radiated Band Edges and Spurious Emission	39.97	41.46	1.49	3
BLE	AC Conducted Emission	52.85	50.22	2.63	3
WIFI 2.4G	6dB Bandwidth	17.64 MHz	15.18 MHz	2.46 MHz	3
	99% Bandwidth	18.04 MHz	18.18 MHz	0.14 MHz	3
	Peak Output Power	25.96 dBm	25.88 dBm	0.08 dB	3
	Power Spectral Density	-6.24 dBm	-6.30 dBm	0.06 dB	3
	Conducted Band Edges	-23.41 dBm	-22.68 dBm	0.73 dB	3
	Conducted Spurious Emission	-38.08 dBm	-35.75 dBm	2.33 dB	3
WIFI 2.4G	Radiated Band Edges and Spurious Emission	50.64	50.60	0.04	3
WIFI 2.4G	AC Conducted Emission	51.37	48.72	2.65	3
WIFI 5G	26dB Bandwidth&99% Bandwidth	30.06 MHz	31.68 MHz	1.62 MHz	3
	Maximum Conducted Output Power	17.76 dBm	17.61dBm	0.15 dB	3
	Power Spectral Density	7.24 dBm	7.04 dBm	0.20 dB	3
	Unwanted Emissions	50.98	49.72	1.26	3
	DFS	0.924831s	0.798427s	0.126404s	3
WIFI 5G	AC Conducted Emission	49.59	47.42	2.17	3
Part 27 (LTE B38)	Conducted Power	23.46dBm	23.11dBm	0.35dB	3
	Peak-to-Average Ratio (dB)	5.19dB	5.28dB	0.09dB	3
	Occupied Bandwidth (MHz)	4.47MHz	4.49MHz	0.02MHz	3
	Conducted Band Edge Measurement (dBm)	-13.53dBm	-13.16dBm	0.37dB	3
	Conducted Spurious Emission (dBm)	-37.98dB	-39.83dB	1.85dB	3
	Frequency Stability Temperature & Voltage (ppm)	0.07ppm	0.06ppm	0.01ppm	3
Part 27 (LTE B7)	Radiated Spurious Emission	-52.43	-51.63	0.8	3



Test Item	Mode	IHDT56AT1 Parent Worst mode Test Result	IHDT56AT2 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	BT BR/EDR	10.50	9.80	0.70	3
	BLE 125K CH19	2.65	2.60	0.05	3
	11b, 2.4GHz	21.49	21.46	0.03	3
	11g, 2.4GHz	25.84	25.81	0.03	3
	11n HT20, 2.4GHz	25.96	25.88	0.08	3
	11n HT40, 2.4GHz	25.63	25.59	0.04	3
	11a, 5.2GHz	17.73	17.56	0.17	3
	11n HT20, 5.2GHz	17.76	17.61	0.15	3
	11n HT40, 5.2GHz	17.33	17.12	0.21	3
	11ac VHT80, 5.2GHz	15.73	15.61	0.12	3
	11a, 5.8GHz	17.40	17.22	0.18	3
	11n HT20, 5.8GHz	17.43	17.24	0.19	3
	11n HT40, 5.8GHz	17.05	16.96	0.09	3
	11ac VHT80, 5.8GHz	15.78	15.62	0.16	3
	GSM850	32.16	32.12	0.04	3
	GSM1800	29.5	29.48	0.02	3
	WCDMA B2	23.33	23.29	0.04	3
	WCDMA B5	23.13	23.02	0.11	3
	LTE Band 2	23.10	23.05	0.05	3
	LTE Band 7	23.48	23.42	0.06	3
	LTE Band 38	23.46	23.26	0.2	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.

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	Oct. 22, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Oct. 22, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Oct. 22, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Oct. 22, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Oct. 22, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Oct. 22, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Oct. 22, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Oct. 22, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	Oct. 22, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Oct. 22, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 17, 2024	Oct. 22, 2024	Oct. 16, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 17, 2024	Oct. 22, 2024	Oct. 16, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Oct. 22, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 17, 2024	Oct. 22, 2024	Oct. 16, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 22, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 22, 2024	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 04, 2024	Sep. 26, 2024	Jul. 03, 2025	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Jul. 04, 2024	Sep. 26, 2024	Jul. 03, 2025	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	Sep. 26, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 14, 2024	Sep. 26, 2024	Aug. 13, 2025	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 28, 2023	Sep. 27, 2024	Dec. 27, 2024	Conducted (DFS01-SZ)
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200424	9kHz~6GHz	Apr. 09, 2024	Sep. 27, 2024	Apr. 08, 2025	Conducted (DFS01-SZ)
Combiner	TOJOIN	PS-2AM-0460	SZE14011007	0.4~6GHz	Sep. 05, 2024	Sep. 27, 2024	Sep. 04, 2025	Conducted (DFS01-SZ)

NCR: No Calibration Required.

**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	Oct. 22, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 15, 2024	Oct. 22, 2024	Oct. 14, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	Oct. 22, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Oct. 22, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Oct. 22, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 17, 2023	Oct. 22, 2024	Oct. 16, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Oct. 22, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Oct. 22, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 09, 2024	Oct. 22, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Oct. 22, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 17, 2024	Oct. 22, 2024	Oct. 16, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Oct. 22, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 17, 2024	Oct. 22, 2024	Oct. 16, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 22, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 22, 2024	NCR	Radiation (03CH01-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 (DFS)

Test Item	Uncertainty
Conducted Generated signal Levels	±1.23 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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03CH01-SZ(WWAN):**Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.48 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02 dB
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-THE END-



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Zhaohui Liang	Relative Humidity :	50%
		Temperature :	20-22℃

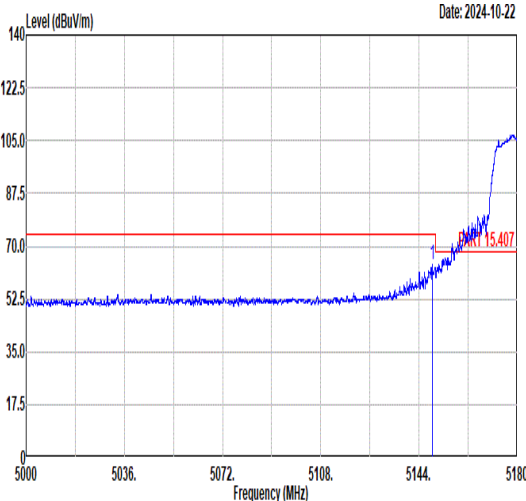
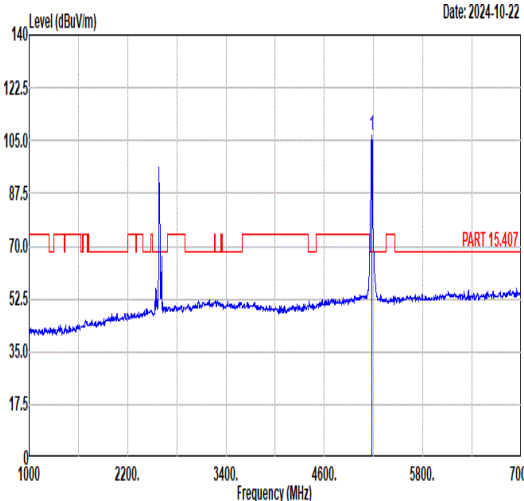
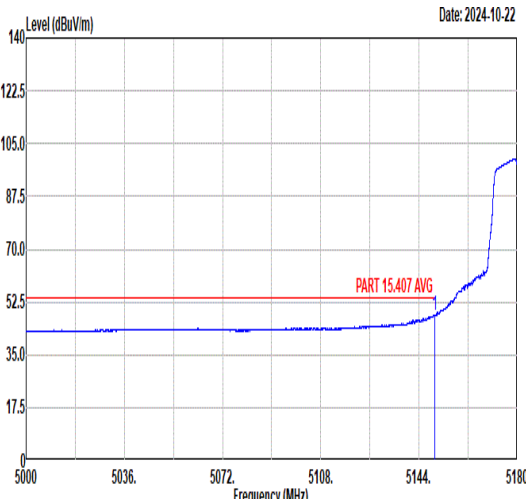
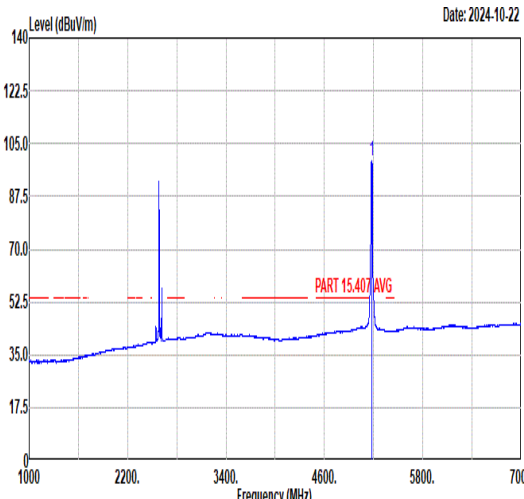
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1 CO-TX	U-NII-1	5.15-5.25	5	802.11a	36	5180	6Mbps	-	-
	-	-	0	LTE Band 41 Link	-	-	-	-	-
	-	-	-	BT ON	-	-	-	-	-
Mode 2 CO-TX	-	-	-	LF	-	-	-	-	-

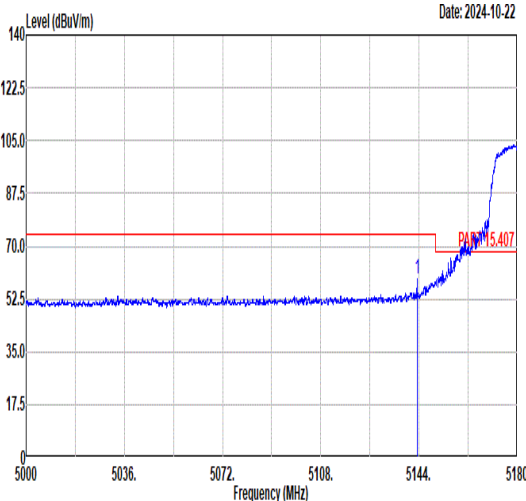
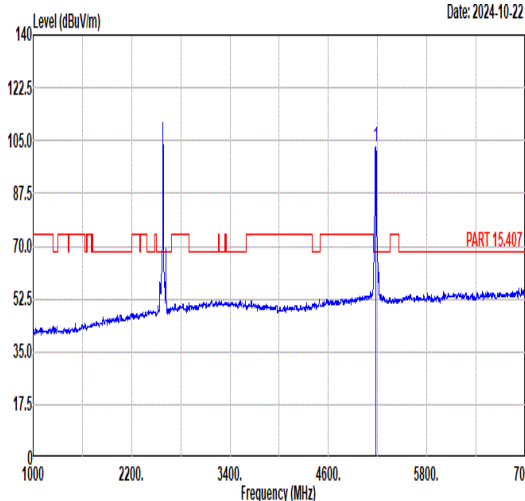
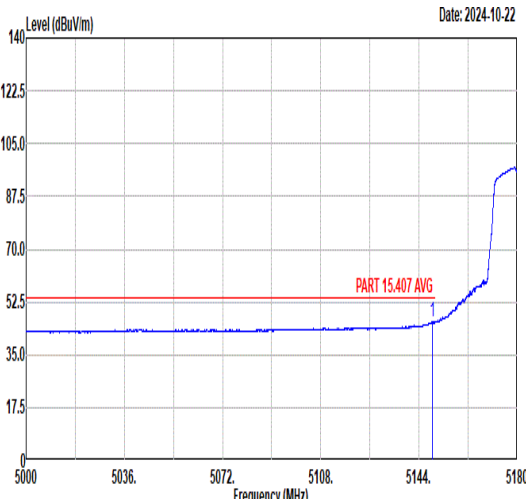
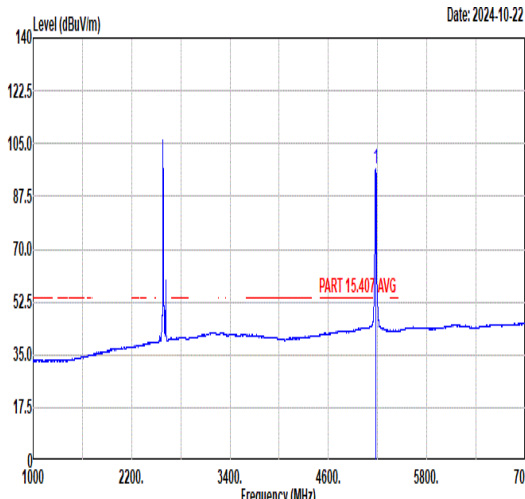
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5149.67	48.30	54.00	-5.70	H	AVERAGE	Pass	Band Edge
1	802.11a	36	10360.00	47.85	68.30	-20.45	V	Peak	Pass	Harmonic
2	CO-TX	58	37.76	29.24	40.00	-10.76	V	Peak	Pass	LF

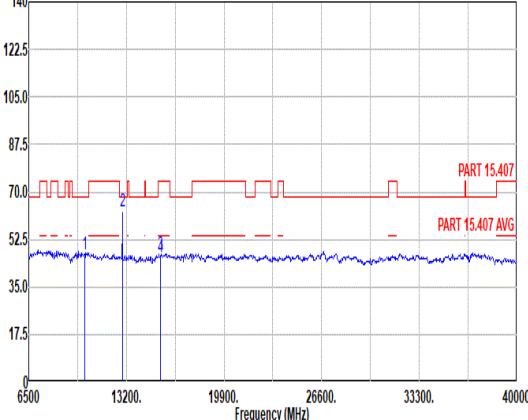
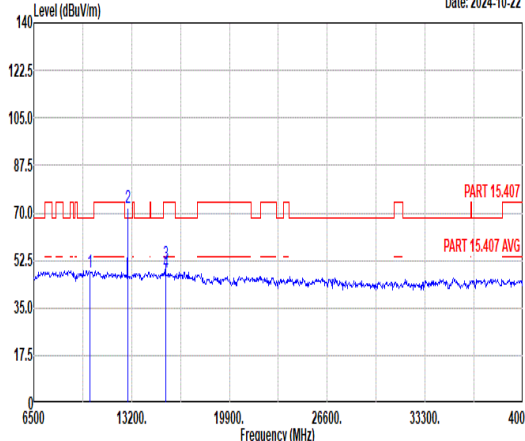


Mode	1																																																																																										
	Band Edge																																																																																										
	U-NII-1_5.15-5.25_802.11a_CH36_5180MHz																																																																																										
ANT	5																																																																																										
Pol.	Horizontal						Fundamental																																																																																				
Peak																																																																																											
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			Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																		
	Freq	Level	Line	Margin	Level	Factor	Loss	Factor																																																																																						
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																				
1	10360.00	47.07	68.30	-21.23	44.25	39.44	14.15	50.77	---	---	Peak																																																																																			
2	12930.00	62.89	68.30	-5.41	58.19	40.47	15.17	50.94	---	---	Peak																																																																																			
3	15516.00	46.83	74.00	-27.17	39.60	41.81	16.83	51.41	---	---	Peak																																																																																			
4	15540.00	46.06	74.00	-27.94	38.82	41.82	16.85	51.43	---	---	Peak																																																																																			
Level (dBuV/m) Date: 2024-10-22 																																																																																														
<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</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></th><th></th><th></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>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>10360.00</td><td>47.85</td><td>68.30</td><td>-20.45</td><td>45.03</td><td>39.44</td><td>14.15</td><td>50.77</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>12930.00</td><td>71.92</td><td>68.30</td><td>3.62</td><td>67.22</td><td>40.47</td><td>15.17</td><td>50.94</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>15516.00</td><td>51.49</td><td>74.00</td><td>-22.51</td><td>44.26</td><td>41.81</td><td>16.83</td><td>51.41</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>15540.00</td><td>48.15</td><td>74.00</td><td>-25.85</td><td>40.91</td><td>41.82</td><td>16.85</td><td>51.43</td><td>---</td><td>---</td><td>Peak</td></tr></table>													Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg			1	10360.00	47.85	68.30	-20.45	45.03	39.44	14.15	50.77	---	---	Peak	2	12930.00	71.92	68.30	3.62	67.22	40.47	15.17	50.94	---	---	Peak	3	15516.00	51.49	74.00	-22.51	44.26	41.81	16.83	51.41	---	---	Peak	4	15540.00	48.15	74.00	-25.85	40.91	41.82	16.85	51.43	---	---	Peak	
		Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																			
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1	10360.00	47.85	68.30	-20.45	45.03	39.44	14.15	50.77	---	---	Peak																																																																																			
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3	15516.00	51.49	74.00	-22.51	44.26	41.81	16.83	51.41	---	---	Peak																																																																																			
4	15540.00	48.15	74.00	-25.85	40.91	41.82	16.85	51.43	---	---	Peak																																																																																			



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ANT	5																																																																																																																																																																																																																											
Pol.	Horizontal						Vertical																																																																																																																																																																																																																					
QPI/ Peak	Level (dBuV/m) Date: 2024-09-25 Frequency (MHz) <table><tr><th></th><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></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>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>36.79</td><td>25.18</td><td>40.00</td><td>-14.82</td><td>34.20</td><td>21.06</td><td>1.12</td><td>31.20</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>146.40</td><td>22.31</td><td>43.50</td><td>-21.19</td><td>34.40</td><td>16.83</td><td>2.19</td><td>31.11</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>224.00</td><td>23.80</td><td>46.00</td><td>-22.20</td><td>36.25</td><td>15.74</td><td>2.71</td><td>30.90</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>307.42</td><td>25.89</td><td>46.00</td><td>-20.11</td><td>34.05</td><td>19.57</td><td>3.16</td><td>30.89</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>576.11</td><td>30.11</td><td>46.00</td><td>-15.89</td><td>31.83</td><td>24.95</td><td>4.33</td><td>31.00</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>936.95</td><td>34.85</td><td>46.00</td><td>-11.15</td><td>33.31</td><td>27.02</td><td>5.52</td><td>31.00</td><td>---</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	36.79	25.18	40.00	-14.82	34.20	21.06	1.12	31.20	---	---	---	Peak	2	146.40	22.31	43.50	-21.19	34.40	16.83	2.19	31.11	---	---	---	Peak	3	224.00	23.80	46.00	-22.20	36.25	15.74	2.71	30.90	---	---	---	Peak	4	307.42	25.89	46.00	-20.11	34.05	19.57	3.16	30.89	---	---	---	Peak	5	576.11	30.11	46.00	-15.89	31.83	24.95	4.33	31.00	---	---	---	Peak	6	936.95	34.85	46.00	-11.15	33.31	27.02	5.52	31.00	---	---	---	Peak	Level (dBuV/m) Date: 2024-09-25 Frequency (MHz) <table><tr><th></th><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></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>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>37.76</td><td>29.24</td><td>40.00</td><td>-10.76</td><td>38.87</td><td>20.44</td><td>1.13</td><td>31.20</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>62.98</td><td>23.44</td><td>40.00</td><td>-16.56</td><td>40.77</td><td>12.50</td><td>1.46</td><td>31.29</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>120.21</td><td>20.55</td><td>43.50</td><td>-22.95</td><td>31.52</td><td>18.20</td><td>1.99</td><td>31.16</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>166.77</td><td>22.02</td><td>43.50</td><td>-21.48</td><td>34.75</td><td>15.95</td><td>2.35</td><td>31.03</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>321.00</td><td>24.19</td><td>46.00</td><td>-21.81</td><td>31.95</td><td>19.87</td><td>3.23</td><td>30.86</td><td>---</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>523.73</td><td>28.85</td><td>46.00</td><td>-17.15</td><td>31.26</td><td>24.31</td><td>4.12</td><td>30.84</td><td>---</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	37.76	29.24	40.00	-10.76	38.87	20.44	1.13	31.20	---	---	---	Peak	2	62.98	23.44	40.00	-16.56	40.77	12.50	1.46	31.29	---	---	---	Peak	3	120.21	20.55	43.50	-22.95	31.52	18.20	1.99	31.16	---	---	---	Peak	4	166.77	22.02	43.50	-21.48	34.75	15.95	2.35	31.03	---	---	---	Peak	5	321.00	24.19	46.00	-21.81	31.95	19.87	3.23	30.86	---	---	---	Peak	6	523.73	28.85	46.00	-17.15	31.26	24.31	4.12	30.84	---	---	---	Peak
		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																																																															
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1	36.79	25.18	40.00	-14.82	34.20	21.06	1.12	31.20	---	---	---	Peak																																																																																																																																																																																																																
2	146.40	22.31	43.50	-21.19	34.40	16.83	2.19	31.11	---	---	---	Peak																																																																																																																																																																																																																
3	224.00	23.80	46.00	-22.20	36.25	15.74	2.71	30.90	---	---	---	Peak																																																																																																																																																																																																																
4	307.42	25.89	46.00	-20.11	34.05	19.57	3.16	30.89	---	---	---	Peak																																																																																																																																																																																																																
5	576.11	30.11	46.00	-15.89	31.83	24.95	4.33	31.00	---	---	---	Peak																																																																																																																																																																																																																
6	936.95	34.85	46.00	-11.15	33.31	27.02	5.52	31.00	---	---	---	Peak																																																																																																																																																																																																																
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1	37.76	29.24	40.00	-10.76	38.87	20.44	1.13	31.20	---	---	---	Peak																																																																																																																																																																																																																
2	62.98	23.44	40.00	-16.56	40.77	12.50	1.46	31.29	---	---	---	Peak																																																																																																																																																																																																																
3	120.21	20.55	43.50	-22.95	31.52	18.20	1.99	31.16	---	---	---	Peak																																																																																																																																																																																																																
4	166.77	22.02	43.50	-21.48	34.75	15.95	2.35	31.03	---	---	---	Peak																																																																																																																																																																																																																
5	321.00	24.19	46.00	-21.81	31.95	19.87	3.23	30.86	---	---	---	Peak																																																																																																																																																																																																																
6	523.73	28.85	46.00	-17.15	31.26	24.31	4.12	30.84	---	---	---	Peak																																																																																																																																																																																																																