

Report No. : FC930415-07



FCC EMI TEST REPORT

FCC ID	:	IHDT56XL1
Equipment	:	Mobile 5G MOD
Brand Name	:	Motorola
Model Name	:	MD1005G
Applicant	:	Motorola Mobility LLC
		222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer	:	Motorola Mobility LLC
		222 W, Merchandise Mart Plaza,
		Chicago IL 60654 USA
Standard	:	FCC 47 CFR FCC Part 15 Subpart B

The product was received on Mar. 05, 2019 and testing was started from Apr. 18, 2019 and completed on Apr. 19, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Inner Tsar

Approved by: Jones Tsai SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FC930415-07	01	Initial issue of report	Apr. 22, 2019





Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 16.24 dB at 8.383 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 6.65 dB at 240.060 MHz
Remark: This is a va	riant report			

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Louis Wu

Report Producer: Elise Chang



1. General Description

1.1. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile 5G MOD
Brand Name	Motorola
Model Name	MD1005G
FCC ID	IHDT56XL1
IMEI Code	Conduction : 355567090025452
	Radiation : 352157100011032
EUT supports Radios application	LTE/5G NR
HW Version	PVT
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories					
USB Cable 1	Brand Name : Motorola				
	Model Name : SC18C46623				

Supported Unit Used in Test Configuration and System					
	Brand Name :	Motorola			
AC Adapter 1	Model Name :	SC-21			
	Manufacturer :	Salom			
	Brand Name :	Motorola			
AC Adapter 2	Model Name :	SC-51			
	Manufacturer :	Chenyang			
Mobile Phone	Brand Name :	Motorola			
	FCC ID :	IHDT56XS1			



1.2. Product Specification of Equipment Under Test

Standards-related Product Specification					
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 48: 3552.5 MHz ~ 3697.5 MHz 5G NR n260: 37000 MHz ~ 40000 MHz 5G NR n261: 27500 MHz ~ 28350 MHz				
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 MHz 5G NR n260: 37000 MHz ~ 40000 MHz 5G NR n261: 27500 MHz ~ 28350 MHz				
Antenna Type	Fixed Internal Antenna				
Type of Modulation	LTE: QPSK / 16QAM / 64QAM 5G NR: QPSK / 16QAM / 64QAM				

1.3. Modification of EUT

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

1.4. Test Location

Test Site	SPORTON INTERNATIONAL INC.			
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	Sporton	Site No.		
	CO05-HY	03CH06-HY		

FCC Designation No. TW1093

1.5. Applicable Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test..



2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1 : LTE Band 5 Idle (EUT) + USB Data Link with Notebook + Phone Mode 2 : LTE Band 13 Idle (EUT) + USB Cable + Adapter + Phone
	Mode 1: LTE Band 5 Idle (EUT) + USB Data Link with Notebook + Phone Mode 2: LTE Band 13 Idle (EUT) + USB Cable + Adapter + Phone

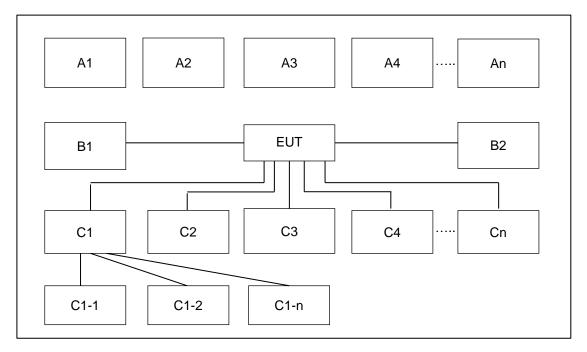
Remark:

1. The worst case of AC is mode 1; only the test data of this mode was reported.

- 2. The worst case of RE is mode 1; only the test data of this mode was reported.
- Data Linking with Notebook means data application transferred mode between EUT and Notebook.



2.2. Connection Diagram of Test System



	Test Setup								
No.	Wireless Station	Connection Type	Test Mode						
NO.	wireless Station	Connection Type	1	2					
A1	System Simulator	GSM/UMTS/CDMA/	x	x					
	System Simulator	WCDMA/LTE	^	^					
No.	Power Source	Connection Type	1	2					
B1	AC : 120V/60Hz	AC Power Cable	-	Х					
B2	Power from system	AC Power Cable	x	-					
No.	Setup Peripherals	Connection Type	1	2					
C1	Notebook	USB Cable	X	-					
C1-1	IPod	USB Cable to C1	х	-					
C1-2	AP router	RJ-45 Cable to C1	х	-					
C2	Phone	I/O interface	x	x					
02	FILUITE	without Cable	^	^					



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
4.	Notebook	ASUS	P2430U	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Mobile Phone	Motorola	Stingray	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

1. Data application is transferred between Laptop and Mobile Phone via USB cable.



3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

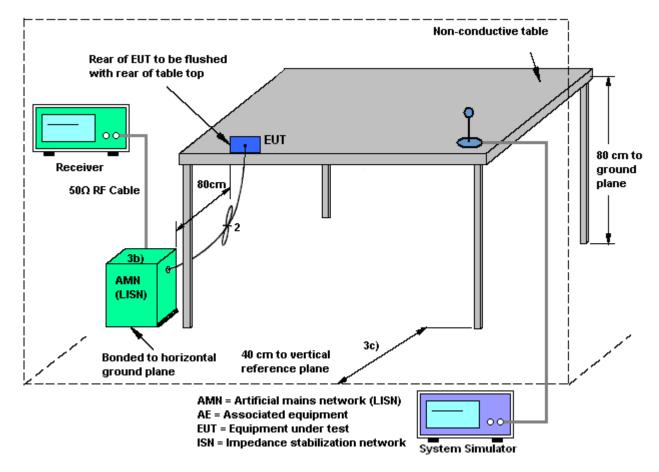
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report.

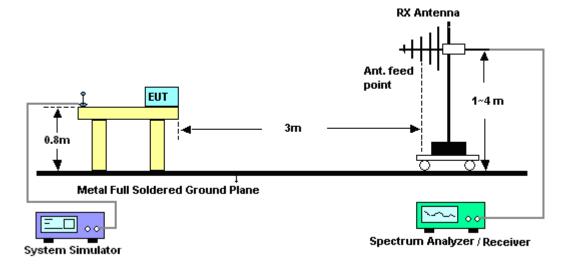
3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

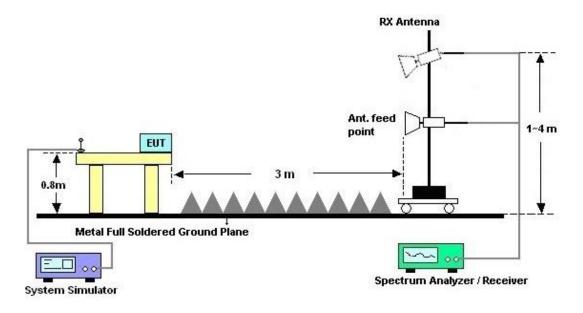


3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 19, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Apr. 19, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Apr. 19, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Apr. 19, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 19, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Apr. 19, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Apr. 19, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N -6-06	2725&AT- N0601	30MHz~1GHz	Oct. 13, 2018	Apr. 18, 2019	Oct. 12, 2019	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 08, 2019	Apr. 18, 2019	Jan. 07, 2020	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-115 6	1GHz~18GHz	Aug. 24, 2018	Apr. 18, 2019	Aug. 23, 2019	Radiation (03CH06-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	May 02, 2018	Apr. 18, 2019	May 01, 2019	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	May 24, 2018	Apr. 18, 2019	May 23, 2019	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208 212	1m~4m	N/A	Apr. 18, 2019	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Apr. 18, 2019	N/A	Radiation (03CH06-HY)
Test Software	AUDIX	e3	6.2009-8-2 4(k5)	N/A	N/A	Apr. 18, 2019	N/A	Radiation (03CH06-HY)
RF Cable	HUBER+SUH NER/WOKEN/ HARBOUR INDUSTRIES	SUCOFLEX 104 /STORM/LL14 2	MY24966/ 4/ 00100A1O 2A178T/ CA3601-3 601-1000	30MHz-26GHz	Nov. 22, 2018	Apr. 18, 2019	Nov. 21, 2019	Radiation (03CH06-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Apr. 18, 2019	Nov. 01, 2019	Radiation (03CH06-HY)
Filter	Wainwright	WLKS1200-8 SS	SN3	1.2G Low Pass	Nov. 02, 2018	Apr. 18, 2019	Nov. 01, 2019	Radiation (03CH06-HY)



5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.2
of 95% (U = 2Uc(y))	2.2

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

Measuring Uncertainty for a Level of Confidence	3.9
of 95% (U = 2Uc(y))	5.9

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

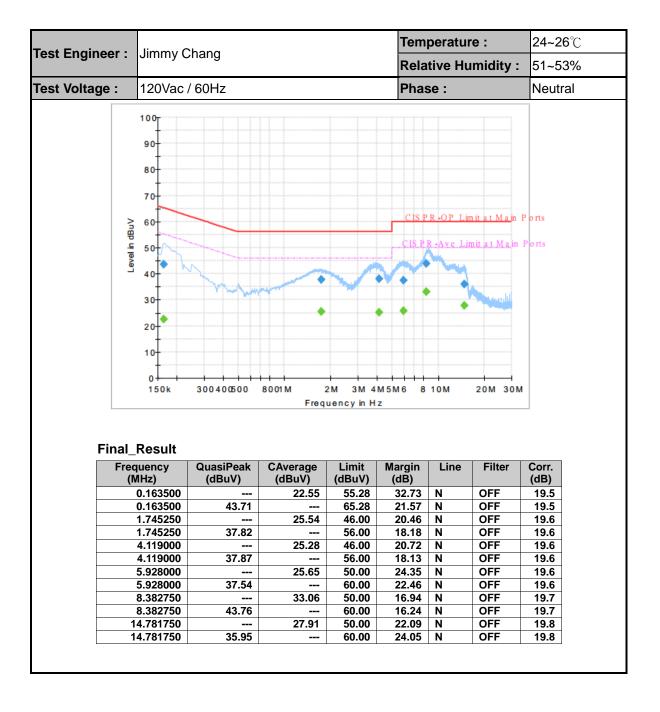
Measuring Uncertainty for a Level of Confidence	47
of 95% (U = 2Uc(y))	4.7



Appendix A. AC Conducted Emission Test Results

Teet Englished		Jimmy Chang				24~26°(
lest Enginee	r :		nang			Rela	tive Hu	imidity :	51~53%
est Voltage :	:	120Vac	/ 60Hz			Phas	se :		Line
	Level in dBuV	100 90 80 70 60 50 40 30 20 10						nit at Majn I nit at Majn I	
		0 150k	300400500		2M 3M 4 uency in H		10M	20M 30M	
	Freq	150k Result uency	QuasiPeak	Freq CAverage	uency in H Limit	z Margin	10M	20M 30M	Corr.
	Freq (M	150k Result uency IHz)		Freq CAverage (dBuV)	Limit (dBuV)	z Margin (dB)	Line	Filter	Corr. (dB)
	Freq (M	150k Result uency IHz) 0.152250	QuasiPeak	Freq CAverage	Limit (dBuV) 55.88	z Margin (dB) 35.45			Corr.
	Freq (M (150k Result uency IHz) 0.152250 0.152250 0.170250	QuasiPeak (dBuV) 37.02 	Freq CAverage (dBuV)	Limit (dBuV) 55.88 65.88 54.95	z Margin (dB) 35.45 28.86 30.81	Line L1 L1 L1	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5
	Freq (M () () ()	150k Result uency IHz) 0.152250 0.152250 0.152250 0.170250	QuasiPeak (dBuV) 37.02 47.48	Freq CAverage (dBuV) 20.43 24.14 	Limit (dBuV) 55.88 65.88 54.95 64.95	z Margin (dB) 35.45 28.86 30.81 17.47	Line L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5
	Freq (M () () () () () () () () () () () () ()	150k Result uency IHz) 0.152250 0.152250 0.170250 0.170250 0.210750	QuasiPeak (dBuV) 37.02 47.48 	Freq CAverage (dBuV) 20.43 24.14 23.10	Limit (dBuV) 55.88 65.88 54.95 64.95 53.18	z Margin (dB) 35.45 28.86 30.81 17.47 30.08	Line L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5
	Freq (M () () () () () () () () () () () () ()	150k Result uency IHz) 0.152250 0.152250 0.170250 0.170250 0.210750	QuasiPeak (dBuV) 37.02 47.48	Freq (dBuV) 20.43 24.14 23.10 	Limit (dBuV) 55.88 65.88 54.95 64.95 53.18 63.18	z Margin (dB) 35.45 28.86 30.81 17.47 30.08 20.31	Line L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5
	Freq (M () () () () () () () () () () () () ()	150k Result uency Hz) 0.152250 0.152250 0.170250 0.170250 0.210750 0.210750 3.995250	QuasiPeak (dBuV) 37.02 47.48 42.87 	Freq CAverage (dBuV) 20.43 24.14 23.10	Limit (dBuV) 55.88 65.88 54.95 64.95 53.18 63.18 46.00	z Margin (dB) 35.45 28.86 30.81 17.47 30.08 20.31 20.78	Line L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
	Freq (M () () () () () () () () () () () () ()	150k Result uency IHz) 0.152250 0.152250 0.170250 0.170250 0.210750 0.210750 3.995250	QuasiPeak (dBuV) 37.02 47.48 	Freq (dBuV) 20.43 24.14 23.10 25.22 	Limit (dBuV) 55.88 65.88 54.95 64.95 53.18 63.18 46.00 56.00	z Margin (dB) 35.45 28.86 30.81 17.47 30.08 20.31 20.78 20.00	Line L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
	Freq (M (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	150k Result uency Hz) 0.152250 0.152250 0.170250 0.170250 0.210750 0.210750 3.995250	QuasiPeak (dBuV) 37.02 47.48 42.87 36.00	Freq (dBuV) 20.43 24.14 23.10 	Limit (dBuV) 55.88 65.88 54.95 64.95 53.18 63.18 46.00	z Margin (dB) 35.45 28.86 30.81 17.47 30.08 20.31 20.78	Line L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
	Freq (M () () () () () () () () () () () () ()	150k Result uency Hz) 0.152250 0.152250 0.170250 0.210750 0.210750 3.995250 3.995250 8.560500	QuasiPeak (dBuV) 37.02 47.48 42.87 36.00 	Freq (dBuV) 20.43 24.14 23.10 25.22 33.07	Limit (dBuV) 55.88 65.88 54.95 64.95 53.18 63.18 46.00 56.00 50.00	z Margin (dB) 35.45 28.86 30.81 17.47 30.08 20.31 20.78 20.00 16.93	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5







Appendix B. Radiated Emission Test Result

Toot Engineer	Dred	المحمد ا	Vuent	~~	Temp	erature	:	24~2	6°C		
Test Engineer :				Relative Humidity :			53~5	53~56%			
Test Distance :				larization : Horizontal			ontal				
Remark :	#6 is s	ystem	simulat	or signa	al which	n can be	e ignore	ed.			
97	l (dBuV/m)									Date: 201	9-04-18
90											
90											
80											
										FCC CL	
70											-6dB
60											
00									FCC	CLASS-I	
50	-6								11	12	-60B
<u>_</u>		8		9	10						
40	5	1									
30	17										
JU 2											
20	+										
10											
10 0 30	1000.	30	00.	5000		7000. ncy (MHz)		9000.	110	00.	13000
030				5000				9000.	110	00.	13000
	:	chambe	p	5000 m 9120D	Freque	ncy (MHz)			110	00.	13000
0 <mark>30</mark> Site	:	chambe	r \SS-B 31		Freque	ncy (MHz)			110	00.	13000
0 ₃₀ Site Conditior Project Power	: n : :	chambe FCC CLA 930415 From Sy	r \SS-B 31 -07		Freque	ncy (MHz)			110	00.	13000
0 ₃₀ Site Conditior Project	: 1 : :	chambe FCC CLA 930415 From Sy Mode 1	r ASS-B31 -07 /stem	m 9120D	Freque	ncy (MHz)			110	00.	13000
0 ₃₀ Site Conditior Project Power	: 1 : :	chambe FCC CLA 930415 From Sy	r NSS-B31 -07 /stem) EMMC)	m 9120D	Freque	ncy (MHz) .80824	HORIZC	DNTAL			13000
0 ₃₀ Site Conditior Project Power	: 1 : : :	chamber FCC CLA 930415 From Sy Mode 1 Y(NB to	r 1055-B 31 -07 vstem 9 EMMC) Over	m 9120D) Limit	Freque _1156_1 	ncy (MHz) 80824 H Antenna	HORIZC Cable)NTAL Preamp			
0 ₃₀ Site Conditior Project Power	: 1 : : :	chambe FCC CLA 930415 From Sy Mode 1	r -O7 -Stem EMMC) Over Limit	m 9120D Limit Line	Freque	ncy (MHz) 80824 H Antenna	HORIZC Cable	DNTAL			13000 Remark
0 ₃₀ Site Conditior Project Power	: : : Freq	chamber FCC CLA 930415 From Sy Mode 1 Y(NB to	r -O7 -Stem EMMC) Over Limit	m 9120D) Limit	Freque _1156_1 	ncy (MHz) 80824 H Antenna	HORIZC Cable)NTAL Preamp			
0 ₃₀ Site Conditior Project Power	: : : Freq MHz	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m	r ASS-B31 -07 /stem EAMAC) Over Limit 	m 9120D Limit Line	Freques _1156_1 ReadA Leve1 dBu¥	ncy (MHz) 80824 F Antenna Factor dB/m	HORIZC Cable Loss 	Preamp Factor	A/Pos	T/Pos deg	
Gite Condition Project Power Memo	: : : : : : : : : : : : : : : : : : :	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53	r 107 255-B 31 257 257 257 257 207 207 207 207 207 207 207 207 207 20	m 9120D Limit Line dBuV/m 40.00	Freques _1156_1 ReadA Leve1 dBu¥	ncy (MHz) .80824 F Antenna Factor 	HORIZC Cable Loss 	Preamp Factor dB 31.75 31.72	A/Pos 	T/Pos deg	Remark
Joint Site Condition Project Power Memo	: : : : : : : : : : : : : : : : : : :	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35	r ASS-B 3 -07 /stem Dem -07 -07 -07 -13.51 -17.97 -6.65	m 9120D Limit Line dBuV/m 40.00 43.50 46.00	Freques _1156_1 ReadA Level dBuV 45.56 38.47 51.98	Antenna Factor dB/m 11.84 17.22	HORIZC Cable Loss dB 0.84 1.36 1.85	Preamp Factor 	A/Pos 	T/Pos deg 192	Remark Peak Peak Peak
Site Condition Project Power Memo	: : : : : : : : : : : : : : : : : : :	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38	- -07 /stem -EAAAAC) Over Limit -13.51 -17.97 -6.65 -15.62	m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00	Freques _1156_1 ReadA Level dBuV 45.56 38.47 51.98 40.64	Antenna Factor dB/m 11.84 17.42 17.22 19.31	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12	Preamp Factor dB 31.75 31.72 31.70 31.69	A/Pos 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak
Site Condition Project Power Memo	: : : : : : : : : : : : : : : : : : :	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38 36.14	r ASS-B 3 -07 /stem Dem -07 -07 -07 -13.51 -17.97 -6.65	m 9120D Limit Line dBuV/m 40.00 43.50 46.00	Freques _1156_1 ReadA Level dBuV 45.56 38.47 51.98 40.64 38.06	Antenna Factor dB/m 11.84 17.42 17.22 19.31 26.74	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12 3.32	Preamp Factor dB 31.75 31.72 31.70 31.69 31.98	A/Pos 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak
Site Condition Project Power Memo	: : : : : : : : : : : : : : : : : : :	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38 36.14 48.23	-13.51 -17. -13.51 -17.97 -6.65 -15.62 -9.86	m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00	Freques _1156_1 ReadA Level dBuV 45.56 38.47 51.98 40.64	Antenna Factor dB/m 11.84 17.42 17.22 19.31 26.74 28.88	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12 3.32 3.67	Preamp Factor dB 31.75 31.72 31.70 31.69 31.98 31.52	A/Pos 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak Peak Peak
Site Condition Project Power Memo	: : : : : : : : : : : : : : : : : : :	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38 36.14 48.23 32.13	- -07 /stem -EAAAAC) Over Limit -13.51 -17.97 -6.65 -15.62	m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00	Freques _1156_1 ReadA Level dBuV 45.56 38.47 51.98 40.64 38.06 47.20	Antenna Factor dB/m 11.84 17.42 17.22 19.31 26.74	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12 3.32	Preamp Factor dB 31.75 31.72 31.70 31.69 31.98	A/Pos 100 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak
Jite Condition Project Power Memo	Freq 63.48 132.06 240.06 311.90 720.00 881.70 951.70 2120.00 1585.00	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38 36.14 48.23 32.13 40.13 40.94	-13.51 -17.97 -13.51 -17.97 -6.65 -15.62 -9.86 -13.87 -33.87 -33.06	m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 74.00 74.00	Freques _1156_1 ReadA Level dBu∀ 45.56 38.47 51.98 40.64 38.06 47.20 28.88 67.35 60.36	Antenna Factor dB/m 11.84 17.42 17.22 19.31 26.74 28.88 30.44 27.40 30.77	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12 3.32 3.67 3.79 6.06 9.38	Preamp Factor dB 31.75 31.72 31.70 31.69 31.98 31.52 30.98 61.10 60.13	A/Pos 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak Peak Peak Pea
030 Site Condition Project Power Memo 1 2 3 4 5 6 * 7 8 2 9 4 10 6	Freq MHz 63.48 132.06 240.06 311.90 720.00 881.70 951.70 2120.00 1585.00 5000.00	chambel FCC CLA 930415 From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38 36.14 48.23 32.13 40.13 40.94 43.50	-13.51 -17.97 -13.51 -17.97 -6.65 -15.62 -9.86 -13.87 -33.87 -33.06 -30.50	m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 74.00 74.00 74.00	Freques _1156_1 ReadA Level dBu∀ 45.56 38.47 51.98 40.64 38.06 47.20 28.88 67.35 60.36 57.17	Antenna Factor dB/m 11.84 17.42 17.22 19.31 26.74 28.88 30.44 27.40 30.77 32.50	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12 3.32 3.67 3.79 6.06 9.38 11.27	Preamp Factor dB 31.75 31.72 31.70 31.69 31.98 31.52 30.98 61.10 60.13 58.20	A/Pos cm 100 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak Peak Peak Pea
030 Site Condition Project Power Memo 1 2 3 4 5 6 * 7 8 2 9 4 10 6 11 10	Freq 63.48 132.06 240.06 311.90 720.00 881.70 951.70 2120.00 1585.00	chambel FCC CLA 930415: From Sy Mode 1 Y(NB to Level dBuV/m 26.49 25.53 39.35 30.38 36.14 48.23 32.13 40.13 40.94 43.50 50.33	-13.51 -17.97 -13.51 -17.97 -6.65 -15.62 -9.86 -13.87 -33.87 -33.06	m 9120D Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 74.00 74.00	Freques _1156_1 ReadA Level dBu∀ 45.56 38.47 51.98 40.64 38.06 47.20 28.88 67.35 60.36	Antenna Factor dB/m 11.84 17.42 17.22 19.31 26.74 28.88 30.44 27.40 30.77	HORIZC Cable Loss dB 0.84 1.36 1.85 2.12 3.32 3.67 3.79 6.06 9.38	Preamp Factor dB 31.75 31.72 31.70 31.69 31.98 31.52 30.98 61.10 60.13	A/Pos 100 	T/Pos deg 192 	Remark Peak Peak Peak Peak Peak Peak Peak Pea



