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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Line Conducted Emissions	Pass	1.17 dB under the limit at 0.282MHz
3.2	15.215(c)	20dB Spectrum Bandwidth	Pass	-
	2.1049	99% OBW Spectrum Bandwidth	Reporting only	-
3.3	15.225(e)	Frequency Stability	Pass	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Pass	Max level 34.91 dBµV/m at 13.560 MHz for Sample 1 Max level 33.81 dBµV/m at 13.560 MHz for Sample 2
3.5	15.225(d) 15.209	Radiated Spurious Emissions	Pass	3.26 dB under the limit at 40.67MHz for Sample 1 6.40 dB under the limit at 542.16MHz for Sample 2
3.6	15.203	Antenna Requirements	Pass	-

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Vivian Hsu



1. General Description

1.1 Product Feature of Equipment Under Test

GSM/LTE, Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n and NFC.

Product Feature	
Sample 1	SKU 1
Sample 2	SKU 2
Sample 3	SKU 3
Sample 4	SKU 4
Antenna Type	WWAN: Fixed External Antenna WLAN: FPC Antenna Bluetooth: Internal Antenna NFC: PCB Loop Antenna

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

	SKU 1	SKU 2	SKU 3	SKU 4
	Public	Fleet	Fleet	Fleet
	LITEON: W1-UC166-0TH1ER	LITEON: W1-UC16A-00H1ER	LITEON: W1-UC168-00H1ER	LITEON: W1-UC166-00H1ER
	RIVIAN: PT00057322	RIVIAN:PT00261633	RIVIAN: PT00340197	RIVIAN:PT00401761
LCD Panel	Yes	NO	NO	NO
Charge Plug	25ft	32ft	25ft	18ft
LTE module	YES	YES	YES	YES
BLE module	YES	YES	YES	YES
Wi-Fi module	YES	YES	YES	YES
RFID module	YES	YES	YES	YES
Holster	YES	NO	NO	NO
Holster cover	YES	YES	YES	YES

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH03-HY	CO05-HY
Test Engineer	Oscar Chi	Calvin Wang
Temperature	22~24°C	23~26°C
Relative Humidity	53~55%	45~55%

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH11-HY (TAF Code: 3786)	
Test Engineer	Troye Hsieh	
Temperature	20.5~21.7°C	
Relative Humidity	57.6~66.6%	
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.	

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.225
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

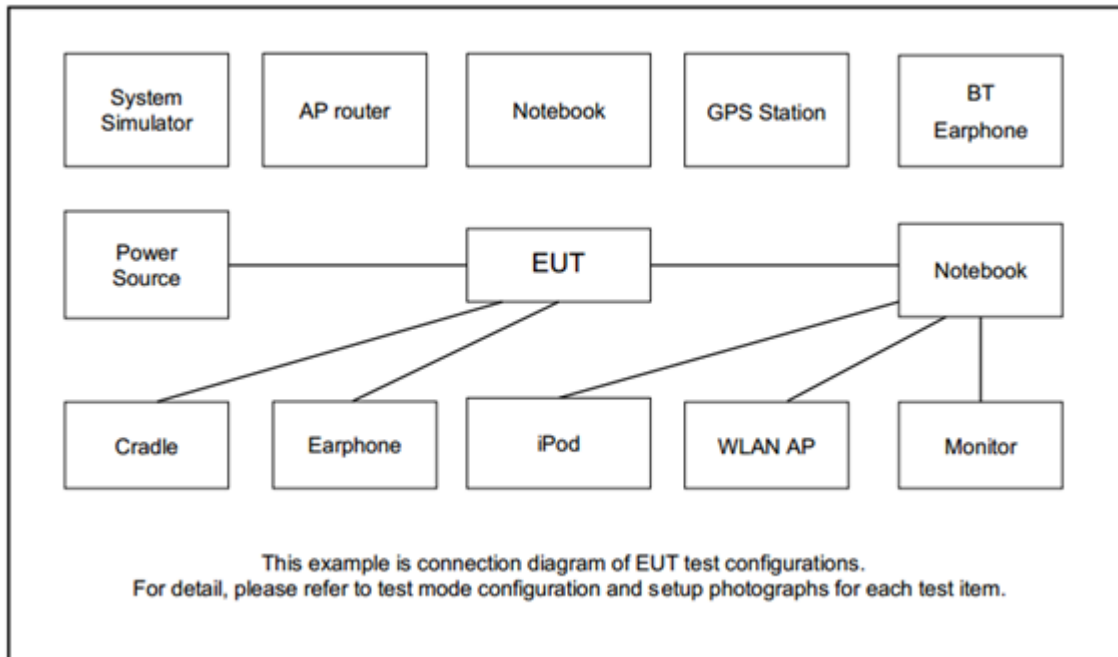
Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz

The EUT pre-scanned in reader mode with NFC tag (four NFC type A, B, F) and without reading tag. Based on the highest field strength of fundamental and spurious emissions, the worst case type (type A for Sample 1; type F for Sample 2) was recorded in this report.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane as worst plane.

Test Cases	
AC Conducted Emission	Mode 1 : NFC Link + Power Cable (240 Vac) for Sample 1 Mode 2 : NFC Link + Power Cable (240 Vac) for Sample 2
Remark: The worst case of Conducted Emission is mode 2; only the test data of it was reported.	

2.2 Connection Diagram of Test System



2.3 Table for Supporting Units

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	NFC Card	N/A	N/A	N/A	N/A	N/A

2.4 EUT Operation Test Setup

The EUT is programmed to be in continuously transmitting mode.

For Sample 1, the ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmitting signal (Power Level: Default) at 13.56MHz and is placed around 0 cm gap to the EUT.

For Sample 2, the ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmitting signal (Power Level: Default) at 13.56MHz and is placed around 1.5 cm gap to the EUT.



3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit 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 (MHz)	Conducted Limit (dB μ V)	
	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.

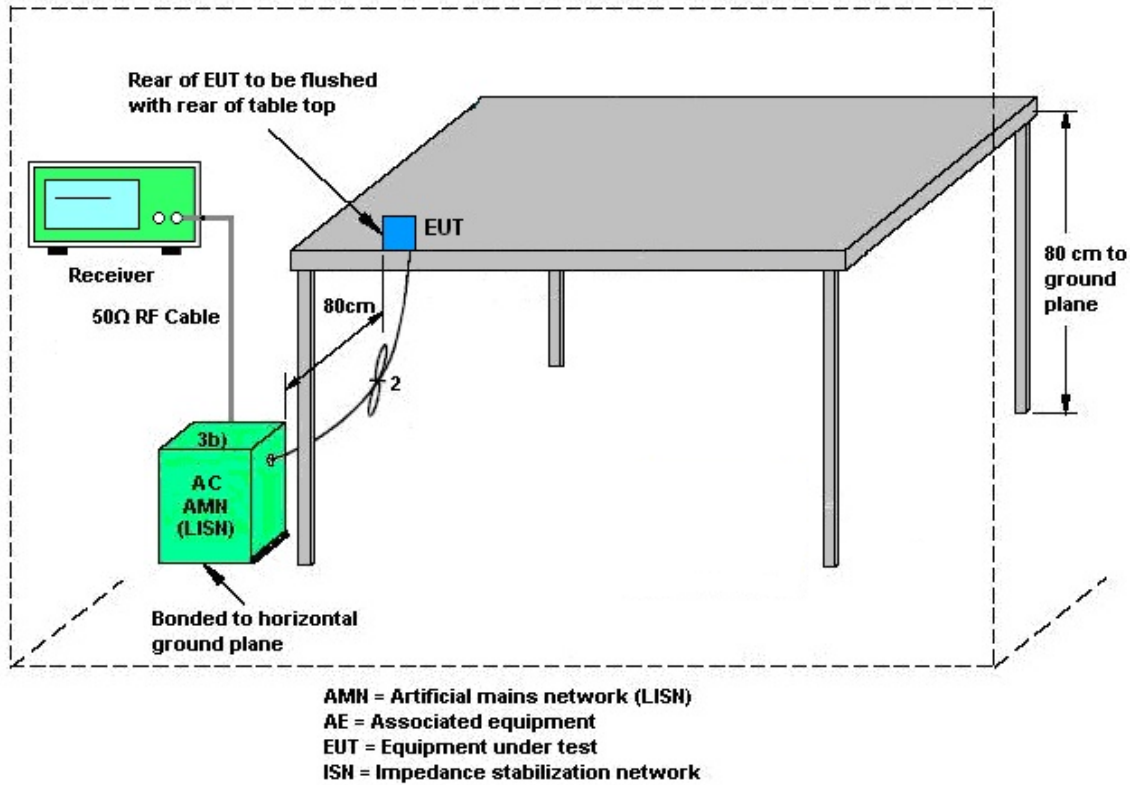
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) 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 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20 dB and 99% emission bandwidth in the specific band 13.553~13.567 MHz.

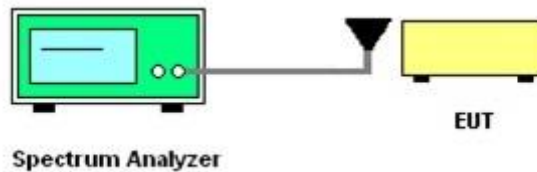
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max Hold Mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20 dB below carrier.
4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Near Field Test Items

Please refer to Appendix B.

3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed by using a new battery.

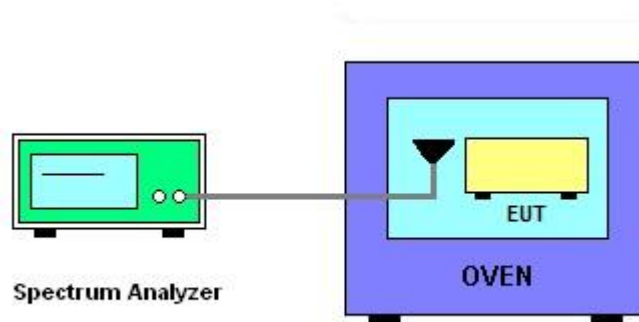
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT has transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and the limit is less than ± 100 ppm.
6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Near Field Test Items

Please refer to Appendix B.



3.4 Field Strength of Fundamental Emissions and Mask Measurement

3.4.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength (μV/m) at 30m	Field Strength (dBμV/m) at 30m	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

Remark:

- 1. The field strength test result is in 3m test distance, follow test rules the test data use distance extrapolation factor and reported in this report at 30m test result.
- 2. Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB)

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

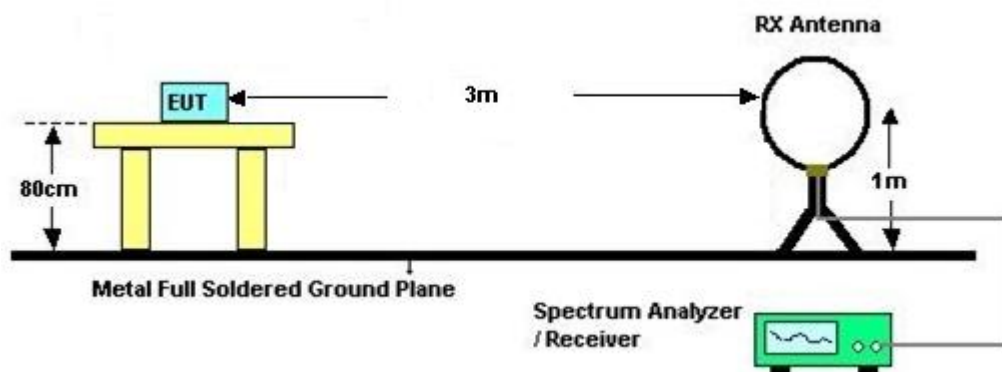
3.4.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT is placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower is placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable is rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna is fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. Compliance with the spectrum mask is tested with RBW set to 9 kHz.

Note: Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

3.4.4 Test Setup

For radiated test below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.



3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (µV/m)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Measuring Instrument Setting

The following table is the setting of receiver:

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

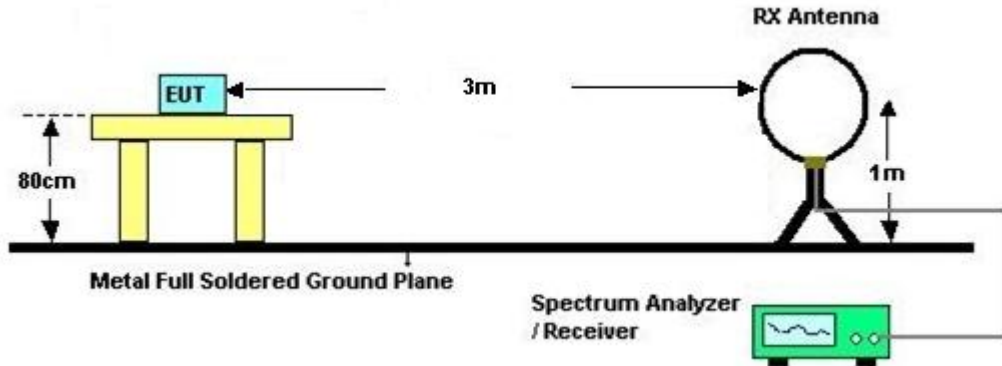


3.5.4 Test Procedures

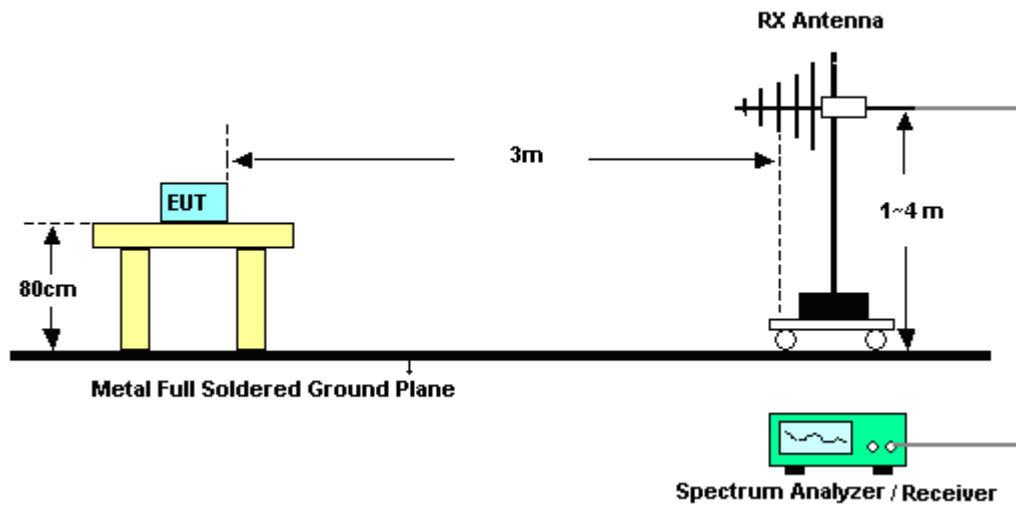
1. Configure the EUT according to ANSI C63.10. The EUT is placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower is placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable is rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna is varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower is scanned (from 1 M to 4 M) and then the turntable is rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30 MHz, loop antenna has to be used for measurement and the recorded data shall be QP measured by receiver.

3.5.5 Test Setup

For radiated test below 30MHz



For radiated test above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark: There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



3.6 Antenna Requirements

3.6.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Apr. 01, 2022~ Apr. 13, 2022	Oct. 08, 2022	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Apr. 01, 2022~ Apr. 13, 2022	Jan. 06, 2023	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 10, 2021	Apr. 01, 2022~ Apr. 13, 2022	Dec. 09, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Apr. 01, 2022~ Apr. 13, 2022	Oct. 14, 2022	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 15, 2021	Apr. 01, 2022~ Apr. 13, 2022	Jul. 14, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 10, 2022	Apr. 01, 2022~ Apr. 13, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 10, 2022	Apr. 01, 2022~ Apr. 13, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30MHz-18GHz	Mar. 10, 2022	Apr. 01, 2022~ Apr. 13, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WHK20/1000C 7/40SS	SN2	20M High Pass	Sep. 13, 2021	Apr. 01, 2022~ Apr. 13, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 01, 2022~ Apr. 13, 2022	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 01, 2022~ Apr. 13, 2022	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 01, 2022~ Apr. 13, 2022	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 01, 2022~ Apr. 13, 2022	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 26, 2021	Apr. 01, 2022~ Apr. 13, 2022	Nov. 25, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	QA-3-031	Sep. 30, 2021	Apr. 01, 2022~ Apr. 13, 2022	Sep. 29, 2022	Radiation (03CH11-HY)
5KVA AC Power Source	TESEQ	NSG 1007	1521A01677	N/A	Jun. 08, 2021	Mar. 23, 2022	Jun. 07, 2022	Near Field (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP210073	N/A	Nov. 16, 2021	Mar. 23, 2022	Nov. 15, 2022	Near Field (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 30, 2021	Mar. 23, 2022	Sep. 29, 2022	Near Field (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20°C~85°C	Dec. 09, 2021	Mar. 23, 2022	Dec. 08, 2022	Near Field (TH03-HY)
Coupling loop antenna	EMCI	LF R 400	N/A	100KHz~50MHz	N/A	Mar. 23, 2022	N/A	Near Field (TH03-HY)



Instrument	Brand Name	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. 01, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Apr. 01, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Apr. 01, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Apr. 01, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Apr. 01, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2021	Apr. 01, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Apr. 01, 2022	Dec. 29, 2022	Conduction (CO05-HY)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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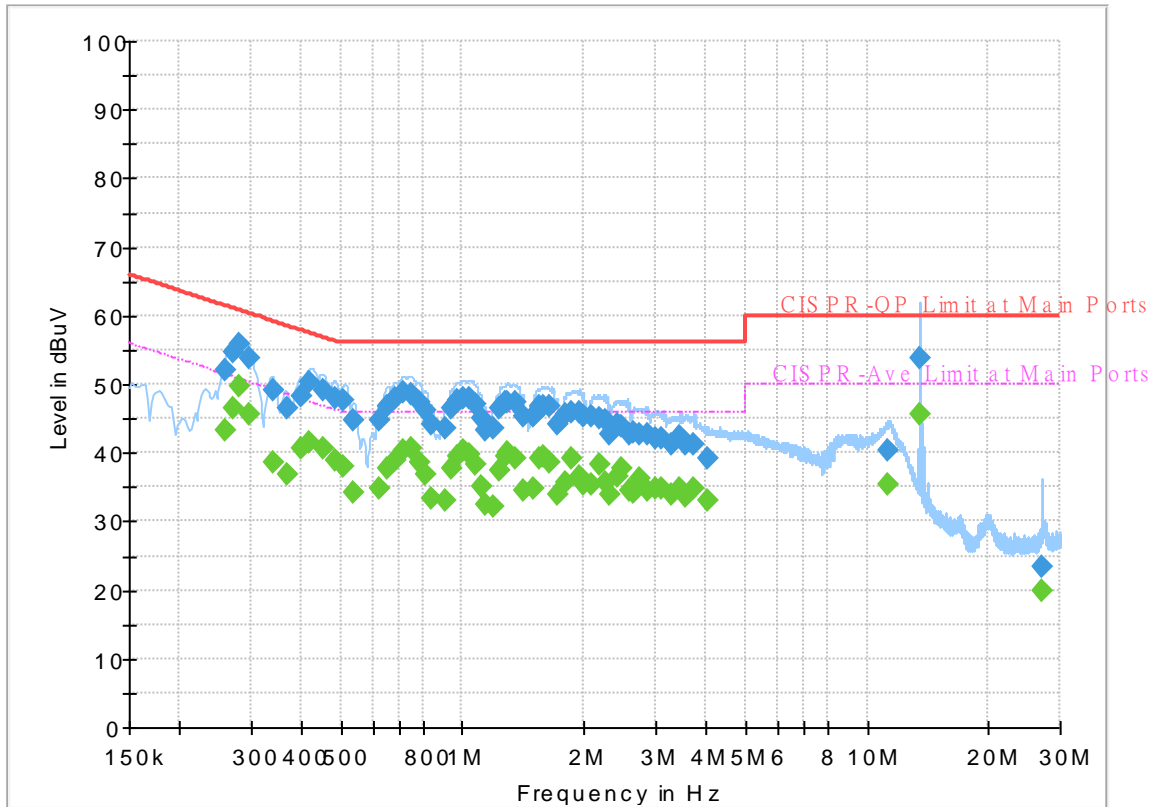
Appendix A. Test Results of Conducted Emission Test

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 230116
 Test Mode : Mode 2
 Test Voltage : 240Vac/60Hz
 Phase : Line

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.258720	52.17	---	61.47	9.30	L1	OFF	19.6
0.258720	---	43.20	51.47	8.27	L1	OFF	19.6
0.271500	54.79	---	61.07	6.28	L1	OFF	19.6
0.271500	---	46.61	51.07	4.46	L1	OFF	19.6
0.281760	55.74	---	60.76	5.02	L1	OFF	19.6
0.281760	---	49.59	50.76	1.17	L1	OFF	19.6
0.297510	53.92	---	60.31	6.39	L1	OFF	19.6
0.297510	---	45.69	50.31	4.62	L1	OFF	19.6
0.339000	---	38.60	49.23	10.63	L1	OFF	19.6
0.339000	49.08	---	59.23	10.15	L1	OFF	19.6
0.368250	46.63	---	58.54	11.91	L1	OFF	19.6
0.368250	---	36.78	48.54	11.76	L1	OFF	19.6
0.399750	---	40.77	47.86	7.09	L1	OFF	19.6
0.399750	48.30	---	57.86	9.56	L1	OFF	19.6
0.420000	50.32	---	57.45	7.13	L1	OFF	19.6
0.420000	---	41.47	47.45	5.98	L1	OFF	19.6
0.453750	---	40.72	46.81	6.09	L1	OFF	19.6
0.453750	49.23	---	56.81	7.58	L1	OFF	19.6
0.485250	48.07	---	56.25	8.18	L1	OFF	19.6
0.485250	---	38.92	46.25	7.33	L1	OFF	19.6
0.507750	---	38.03	46.00	7.97	L1	OFF	19.6

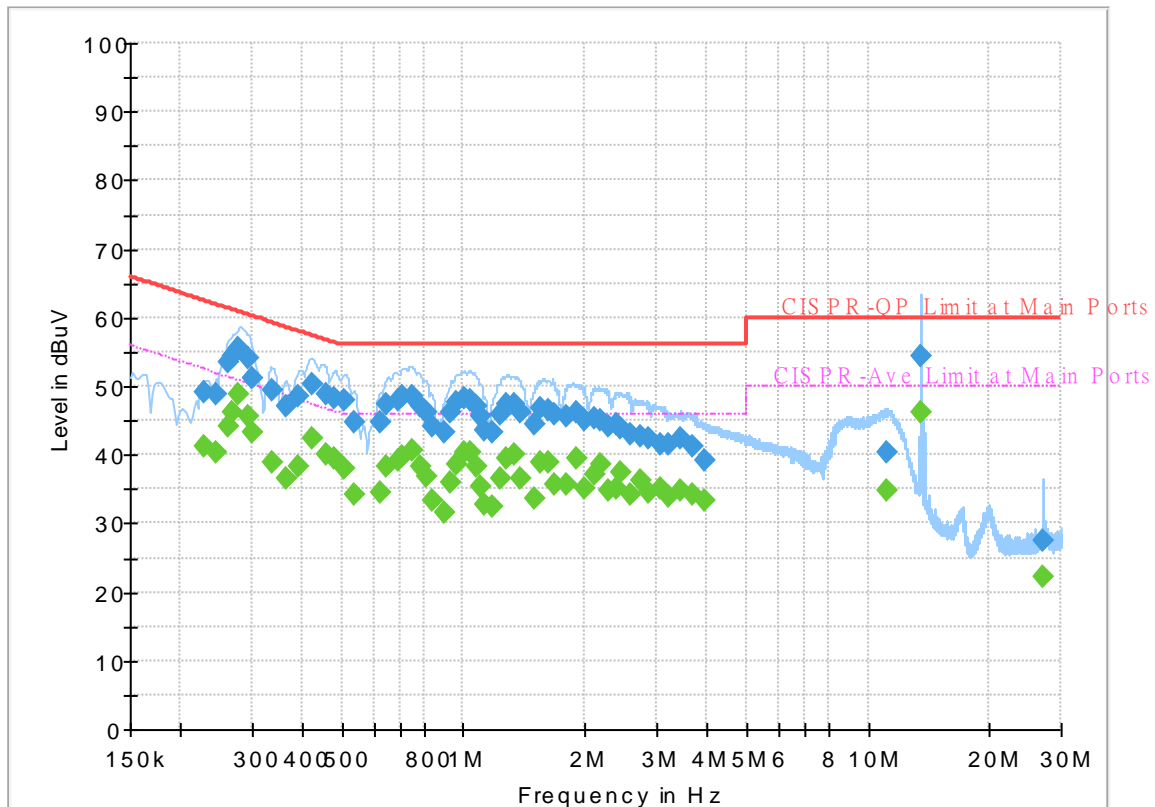
0.507750	47.70	---	56.00	8.30	L1	OFF	19.6
0.539250	---	34.32	46.00	11.68	L1	OFF	19.6
0.539250	44.73	---	56.00	11.27	L1	OFF	19.6
0.624750	---	34.81	46.00	11.19	L1	OFF	19.6
0.624750	44.65	---	56.00	11.35	L1	OFF	19.6
0.654000	---	37.65	46.00	8.35	L1	OFF	19.6
0.654000	46.92	---	56.00	9.08	L1	OFF	19.6
0.685500	---	38.87	46.00	7.13	L1	OFF	19.6
0.685500	47.93	---	56.00	8.07	L1	OFF	19.6
0.714750	48.73	---	56.00	7.27	L1	OFF	19.6
0.714750	---	40.36	46.00	5.64	L1	OFF	19.6
0.748500	---	40.64	46.00	5.36	L1	OFF	19.6
0.748500	48.60	---	56.00	7.40	L1	OFF	19.6
0.782250	---	38.60	46.00	7.40	L1	OFF	19.6
0.782250	47.32	---	56.00	8.68	L1	OFF	19.6
0.809250	---	36.75	46.00	9.25	L1	OFF	19.6
0.809250	46.24	---	56.00	9.76	L1	OFF	19.6
0.834000	44.17	---	56.00	11.83	L1	OFF	19.6
0.834000	---	33.37	46.00	12.63	L1	OFF	19.6
0.910500	43.64	---	56.00	12.36	L1	OFF	19.6
0.910500	---	32.90	46.00	13.10	L1	OFF	19.6
0.939750	46.55	---	56.00	9.45	L1	OFF	19.6
0.939750	---	37.59	46.00	8.41	L1	OFF	19.6
0.966750	---	39.40	46.00	6.60	L1	OFF	19.6
0.966750	47.64	---	56.00	8.36	L1	OFF	19.6
1.000500	---	40.21	46.00	5.79	L1	OFF	19.6
1.000500	48.00	---	56.00	8.00	L1	OFF	19.6
1.045500	---	39.87	46.00	6.13	L1	OFF	19.6
1.045500	47.96	---	56.00	8.04	L1	OFF	19.6
1.072500	47.13	---	56.00	8.87	L1	OFF	19.6
1.072500	---	38.16	46.00	7.84	L1	OFF	19.6
1.115250	45.01	---	56.00	10.99	L1	OFF	19.6
1.115250	---	35.02	46.00	10.98	L1	OFF	19.6
1.140000	43.37	---	56.00	12.63	L1	OFF	19.6
1.140000	---	32.57	46.00	13.43	L1	OFF	19.6
1.187250	---	32.25	46.00	13.75	L1	OFF	19.6
1.187250	43.50	---	56.00	12.50	L1	OFF	19.6
1.236750	46.41	---	56.00	9.59	L1	OFF	19.6
1.236750	---	37.50	46.00	8.50	L1	OFF	19.6
1.272750	47.28	---	56.00	8.72	L1	OFF	19.6
1.272750	---	39.48	46.00	6.52	L1	OFF	19.6
1.290750	47.49	---	56.00	8.51	L1	OFF	19.6
1.290750	---	40.02	46.00	5.98	L1	OFF	19.6
1.358250	---	39.22	46.00	6.78	L1	OFF	19.6
1.358250	47.47	---	56.00	8.53	L1	OFF	19.6
1.412250	---	34.56	46.00	11.44	L1	OFF	19.6
1.412250	45.18	---	56.00	10.82	L1	OFF	19.6
1.500000	45.42	---	56.00	10.58	L1	OFF	19.6
1.500000	---	34.70	46.00	11.30	L1	OFF	19.6
1.554000	46.77	---	56.00	9.23	L1	OFF	19.6
1.554000	---	39.08	46.00	6.92	L1	OFF	19.6
1.581000	46.66	---	56.00	9.34	L1	OFF	19.6
1.581000	---	39.60	46.00	6.40	L1	OFF	19.6
1.650750	46.88	---	56.00	9.12	L1	OFF	19.6
1.650750	---	38.60	46.00	7.40	L1	OFF	19.6
1.711500	---	33.78	46.00	12.22	L1	OFF	19.6
1.711500	44.29	---	56.00	11.71	L1	OFF	19.6
1.806000	45.69	---	56.00	10.31	L1	OFF	19.6
1.806000	---	35.76	46.00	10.24	L1	OFF	19.6
1.869000	45.89	---	56.00	10.11	L1	OFF	19.6
1.869000	---	39.08	46.00	6.92	L1	OFF	19.6
1.956750	---	36.69	46.00	9.31	L1	OFF	19.6
1.956750	45.90	---	56.00	10.10	L1	OFF	19.6
1.981500	---	35.50	46.00	10.50	L1	OFF	19.6
1.981500	45.25	---	56.00	10.75	L1	OFF	19.6
2.094000	45.18	---	56.00	10.82	L1	OFF	19.6
2.094000	---	35.38	46.00	10.62	L1	OFF	19.6
2.181750	44.90	---	56.00	11.10	L1	OFF	19.6
2.181750	---	38.29	46.00	7.71	L1	OFF	19.6
2.256000	---	35.65	46.00	10.35	L1	OFF	19.6
2.256000	44.86	---	56.00	11.14	L1	OFF	19.6

2.310000	---	34.01	46.00	11.99	L1	OFF	19.6
2.310000	42.57	---	56.00	13.43	L1	OFF	19.6
2.415750	44.18	---	56.00	11.82	L1	OFF	19.6
2.415750	---	36.68	46.00	9.32	L1	OFF	19.6
2.467500	---	37.69	46.00	8.31	L1	OFF	19.6
2.467500	43.75	---	56.00	12.25	L1	OFF	19.6
2.582250	---	34.54	46.00	11.46	L1	OFF	19.6
2.582250	42.79	---	56.00	13.21	L1	OFF	19.6
2.663250	---	34.14	46.00	11.86	L1	OFF	19.6
2.663250	43.07	---	56.00	12.93	L1	OFF	19.6
2.730750	42.68	---	56.00	13.32	L1	OFF	19.6
2.730750	---	36.13	46.00	9.87	L1	OFF	19.6
2.854500	---	34.42	46.00	11.58	L1	OFF	19.6
2.854500	42.74	---	56.00	13.26	L1	OFF	19.6
2.998500	---	34.74	46.00	11.26	L1	OFF	19.6
2.998500	42.12	---	56.00	13.88	L1	OFF	19.6
3.124500	---	34.80	46.00	11.20	L1	OFF	19.6
3.124500	42.22	---	56.00	13.78	L1	OFF	19.6
3.282000	---	33.89	46.00	12.11	L1	OFF	19.6
3.282000	41.15	---	56.00	14.85	L1	OFF	19.6
3.450750	---	34.92	46.00	11.08	L1	OFF	19.6
3.450750	42.37	---	56.00	13.63	L1	OFF	19.6
3.570000	---	33.52	46.00	12.48	L1	OFF	19.6
3.570000	41.15	---	56.00	14.85	L1	OFF	19.6
3.723000	41.31	---	56.00	14.69	L1	OFF	19.6
3.723000	---	34.85	46.00	11.15	L1	OFF	19.6
4.049250	39.22	---	56.00	16.78	L1	OFF	19.6
4.049250	---	32.94	46.00	13.06	L1	OFF	19.6
11.305500	40.41	---	60.00	19.59	L1	OFF	19.8
11.305500	---	35.31	50.00	14.69	L1	OFF	19.8
13.560540	53.73	---	60.00	6.27	L1	OFF	19.8
13.560540	---	45.48	50.00	4.52	L1	OFF	19.8
27.125250	---	19.79	50.00	30.21	L1	OFF	19.8
27.125250	23.53	---	60.00	36.47	L1	OFF	19.8

EUT Information

Report NO : 230116
 Test Mode : Mode 2
 Test Voltage : 240Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.228750	---	41.13	52.50	11.37	N	OFF	19.6
0.228750	49.25	---	62.50	13.25	N	OFF	19.6
0.244500	---	40.33	51.94	11.61	N	OFF	19.6
0.244500	48.96	---	61.94	12.98	N	OFF	19.6
0.262500	---	44.18	51.35	7.17	N	OFF	19.6
0.262500	53.59	---	61.35	7.76	N	OFF	19.6
0.269250	---	46.17	51.14	4.97	N	OFF	19.6
0.269250	54.34	---	61.14	6.80	N	OFF	19.6
0.276000	---	48.96	50.94	1.98	N	OFF	19.6
0.276000	55.44	---	60.94	5.50	N	OFF	19.6
0.294000	---	45.73	50.41	4.68	N	OFF	19.6
0.294000	54.10	---	60.41	6.31	N	OFF	19.6
0.302100	---	43.26	50.19	6.93	N	OFF	19.6
0.302100	51.23	---	60.19	8.96	N	OFF	19.6
0.336750	---	38.81	49.28	10.47	N	OFF	19.6
0.336750	49.38	---	59.28	9.90	N	OFF	19.6
0.363750	---	36.49	48.64	12.15	N	OFF	19.6
0.363750	47.17	---	58.64	11.47	N	OFF	19.6
0.390750	---	38.43	48.05	9.62	N	OFF	19.6
0.390750	48.54	---	58.05	9.51	N	OFF	19.6
0.424500	---	42.26	47.36	5.10	N	OFF	19.6

0.424500	50.28	---	57.36	7.08	N	OFF	19.6
0.456000	---	40.13	46.77	6.64	N	OFF	19.6
0.456000	48.75	---	56.77	8.02	N	OFF	19.6
0.478500	---	39.39	46.37	6.98	N	OFF	19.6
0.478500	48.27	---	56.37	8.10	N	OFF	19.6
0.507750	---	38.04	46.00	7.96	N	OFF	19.6
0.507750	47.86	---	56.00	8.14	N	OFF	19.6
0.539250	---	34.28	46.00	11.72	N	OFF	19.6
0.539250	44.81	---	56.00	11.19	N	OFF	19.6
0.620250	---	34.39	46.00	11.61	N	OFF	19.6
0.620250	44.86	---	56.00	11.14	N	OFF	19.6
0.647250	---	38.39	46.00	7.61	N	OFF	19.6
0.647250	47.38	---	56.00	8.62	N	OFF	19.6
0.687750	---	39.13	46.00	6.87	N	OFF	19.6
0.687750	47.92	---	56.00	8.08	N	OFF	19.6
0.708000	---	39.77	46.00	6.23	N	OFF	19.6
0.708000	48.62	---	56.00	7.38	N	OFF	19.6
0.748500	---	40.67	46.00	5.33	N	OFF	19.6
0.748500	48.63	---	56.00	7.37	N	OFF	19.6
0.782250	---	38.41	46.00	7.59	N	OFF	19.6
0.782250	47.15	---	56.00	8.85	N	OFF	19.6
0.809250	---	36.81	46.00	9.19	N	OFF	19.6
0.809250	46.20	---	56.00	9.80	N	OFF	19.6
0.834000	---	33.36	46.00	12.64	N	OFF	19.6
0.834000	44.25	---	56.00	11.75	N	OFF	19.6
0.899250	---	31.66	46.00	14.34	N	OFF	19.6
0.899250	43.19	---	56.00	12.81	N	OFF	19.6
0.928500	---	35.99	46.00	10.01	N	OFF	19.6
0.928500	46.23	---	56.00	9.77	N	OFF	19.6
0.957750	---	38.58	46.00	7.42	N	OFF	19.6
0.957750	47.54	---	56.00	8.46	N	OFF	19.6
1.005000	---	40.27	46.00	5.73	N	OFF	19.6
1.005000	48.11	---	56.00	7.89	N	OFF	19.6
1.041000	---	40.27	46.00	5.73	N	OFF	19.6
1.041000	48.04	---	56.00	7.96	N	OFF	19.6
1.072500	---	38.20	46.00	7.80	N	OFF	19.6
1.072500	47.08	---	56.00	8.92	N	OFF	19.6
1.101750	---	35.52	46.00	10.48	N	OFF	19.6
1.101750	45.53	---	56.00	10.47	N	OFF	19.6
1.131000	---	32.81	46.00	13.19	N	OFF	19.6
1.131000	43.62	---	56.00	12.38	N	OFF	19.6
1.185000	---	32.56	46.00	13.44	N	OFF	19.6
1.185000	43.36	---	56.00	12.64	N	OFF	19.6
1.227750	---	36.42	46.00	9.58	N	OFF	19.6
1.227750	46.04	---	56.00	9.96	N	OFF	19.6
1.272750	---	39.61	46.00	6.39	N	OFF	19.6
1.272750	47.33	---	56.00	8.67	N	OFF	19.6
1.333500	---	40.14	46.00	5.86	N	OFF	19.6
1.333500	47.33	---	56.00	8.67	N	OFF	19.6
1.387500	---	36.65	46.00	9.35	N	OFF	19.6
1.387500	46.10	---	56.00	9.90	N	OFF	19.6
1.491000	---	33.73	46.00	12.27	N	OFF	19.6
1.491000	44.39	---	56.00	11.61	N	OFF	19.6
1.551750	---	38.97	46.00	7.03	N	OFF	19.6
1.551750	46.88	---	56.00	9.12	N	OFF	19.6
1.614750	---	39.03	46.00	6.97	N	OFF	19.6
1.614750	46.57	---	56.00	9.43	N	OFF	19.6
1.684500	---	35.67	46.00	10.33	N	OFF	19.6
1.684500	45.93	---	56.00	10.07	N	OFF	19.6
1.803750	---	35.64	46.00	10.36	N	OFF	19.6
1.803750	45.49	---	56.00	10.51	N	OFF	19.6
1.900500	---	39.39	46.00	6.61	N	OFF	19.6
1.900500	46.11	---	56.00	9.89	N	OFF	19.6
1.983750	---	35.11	46.00	10.89	N	OFF	19.6
1.983750	45.03	---	56.00	10.97	N	OFF	19.6
2.118750	---	37.10	46.00	8.90	N	OFF	19.6
2.118750	45.36	---	56.00	10.64	N	OFF	19.6
2.193000	---	38.70	46.00	7.30	N	OFF	19.6
2.193000	45.10	---	56.00	10.90	N	OFF	19.6
2.280750	---	34.72	46.00	11.28	N	OFF	19.6
2.280750	44.11	---	56.00	11.89	N	OFF	19.6

2.377500	---	34.97	46.00	11.03	N	OFF	19.6
2.377500	44.32	---	56.00	11.68	N	OFF	19.6
2.449500	---	37.42	46.00	8.58	N	OFF	19.6
2.449500	43.92	---	56.00	12.08	N	OFF	19.6
2.580000	---	34.32	46.00	11.68	N	OFF	19.6
2.580000	43.05	---	56.00	12.95	N	OFF	19.6
2.746500	---	36.12	46.00	9.88	N	OFF	19.6
2.746500	42.59	---	56.00	13.41	N	OFF	19.6
2.879250	---	34.49	46.00	11.51	N	OFF	19.6
2.879250	42.35	---	56.00	13.65	N	OFF	19.6
3.075000	---	35.08	46.00	10.92	N	OFF	19.6
3.075000	41.63	---	56.00	14.37	N	OFF	19.6
3.228000	---	34.06	46.00	11.94	N	OFF	19.6
3.228000	41.46	---	56.00	14.54	N	OFF	19.6
3.448500	---	34.75	46.00	11.25	N	OFF	19.6
3.448500	42.34	---	56.00	13.66	N	OFF	19.6
3.669000	---	34.35	46.00	11.65	N	OFF	19.6
3.669000	41.10	---	56.00	14.90	N	OFF	19.6
3.936750	---	33.23	46.00	12.77	N	OFF	19.6
3.936750	39.23	---	56.00	16.77	N	OFF	19.6
11.114250	---	34.73	50.00	15.27	N	OFF	19.8
11.114250	40.29	---	60.00	19.71	N	OFF	19.8
13.560000	---	46.06	50.00	3.94	N	OFF	19.9
13.560000	54.28	---	60.00	5.72	N	OFF	19.9
27.120750	---	22.32	50.00	27.68	N	OFF	20.1
27.120750	27.49	---	60.00	32.51	N	OFF	20.1



Appendix B. Test Results of Near Field Test Items

B1. Test Result of 20dB Spectrum Bandwidth

Test mode	NFC Tx	Test Frequency (MHz)	13.56
Date: 23.MAR.2022 15:06:18		Date: 23.MAR.2022 15:05:32	
20dB Bandwidth (kHz)	2.640	99% OccupiedBW(kHz)	2.260
Frequency range (MHz)	$f_L > 13.553$	13.55862	Test Result
	$f_H < 13.567$	13.56126	Complies

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



B2. Test Result of Frequency Stability

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)
240	13.559940	-20	0	13.560000
216	13.559940		2	13.560000
264	13.559950		5	13.560000
			10	13.560000
		-10	0	13.559980
			2	13.559980
			5	13.559980
			10	13.560000
		0	0	13.559970
			2	13.559970
			5	13.559970
			10	13.559970
		10	0	13.559960
			2	13.559960
			5	13.559960
			10	13.559960
		20	0	13.559940
			2	13.559950
			5	13.559940
			10	13.559950
		30	0	13.559950
			2	13.559940
			5	13.559940
			10	13.559950
		40	0	13.559940
			2	13.559940
			5	13.559940
			10	13.559940



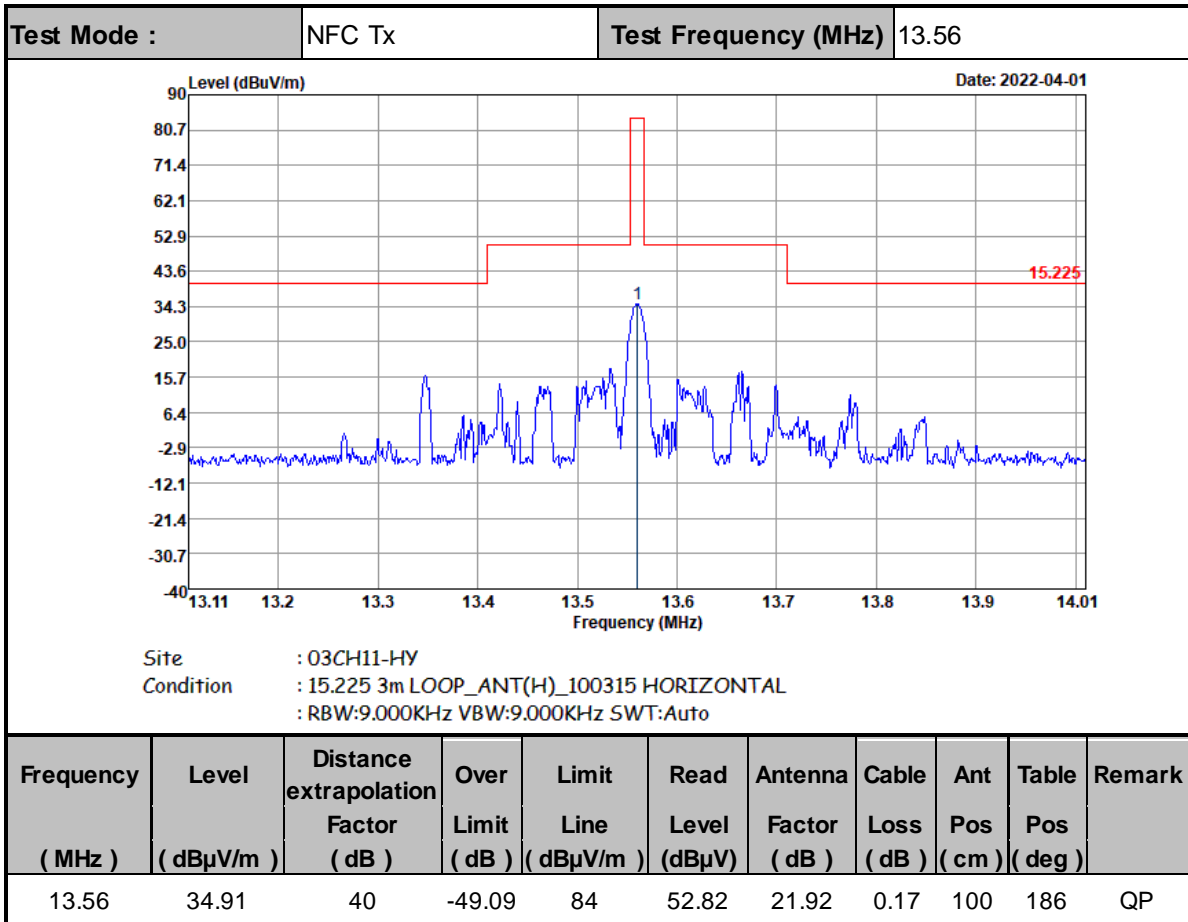
Voltage vs. Frequency Stability		Temperature vs. Frequency Stability		
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Time	Measurement Frequency (MHz)
		50	0	13.559950
			2	13.559940
			5	13.559940
			10	13.559950
Max.Deviation (MHz)	-0.000060	Max.Deviation (MHz)		-0.000060
Max.Deviation (ppm)	-4.4248	Max.Deviation (ppm)		-4.4248
Limit	FS < ±100 ppm	Limit		FS < ±100 ppm
Test Result	PASS	Test Result		PASS

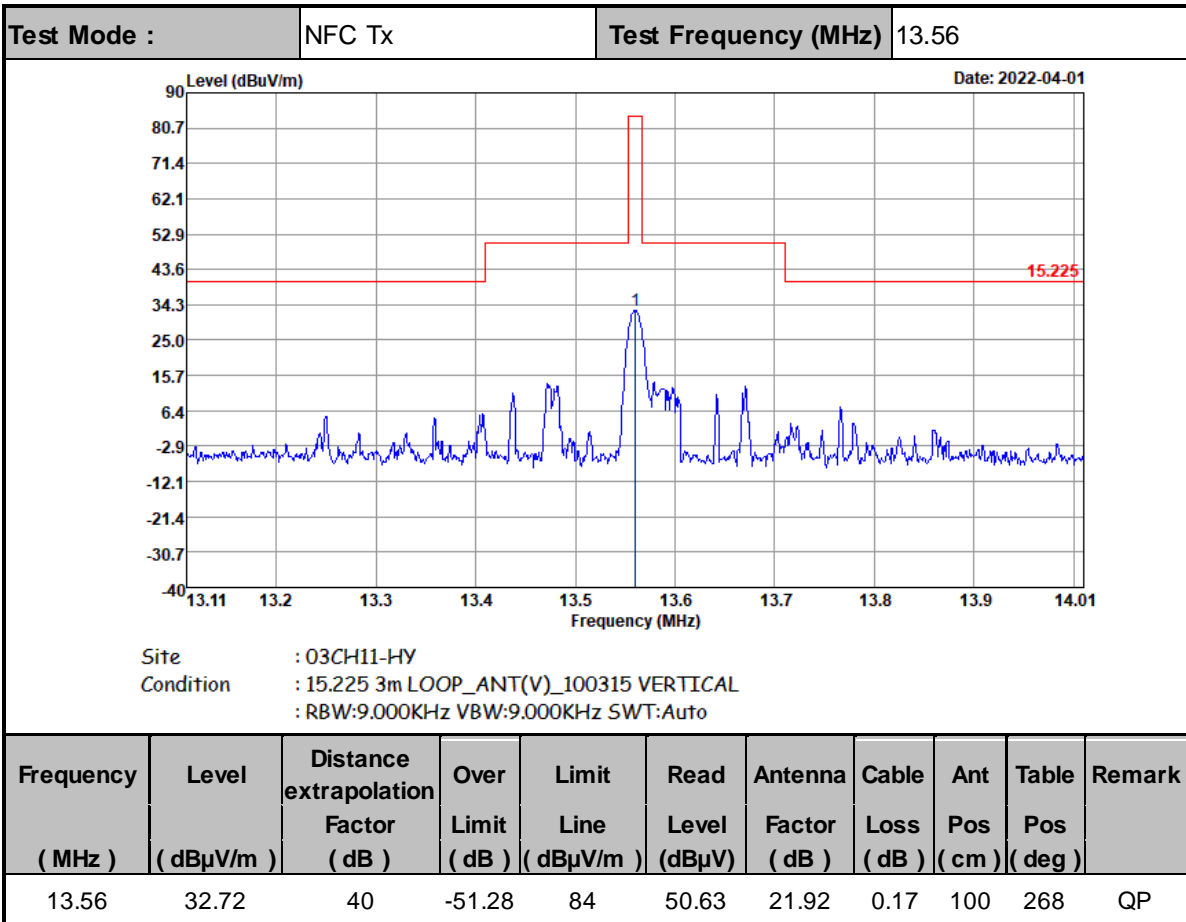


Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions

<For Sample 1>



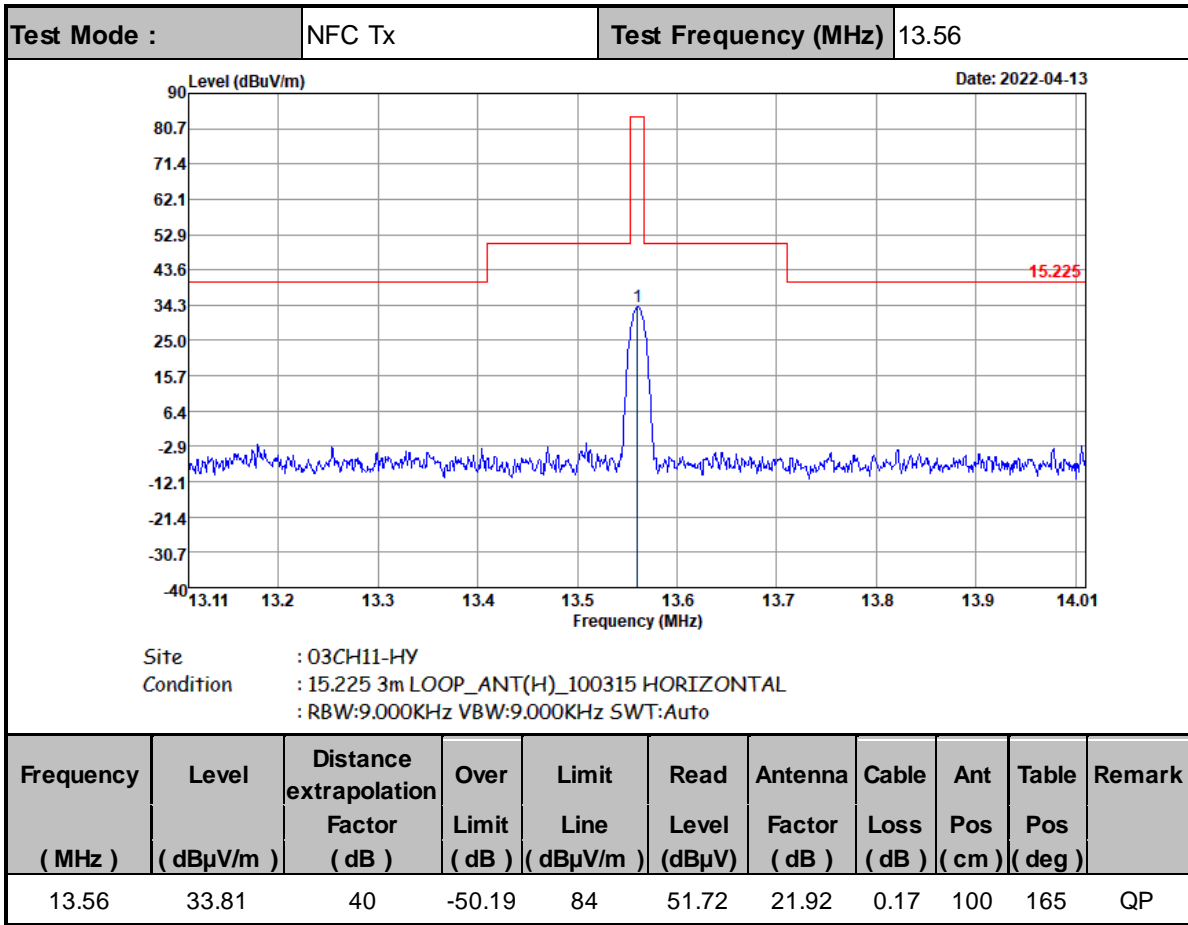


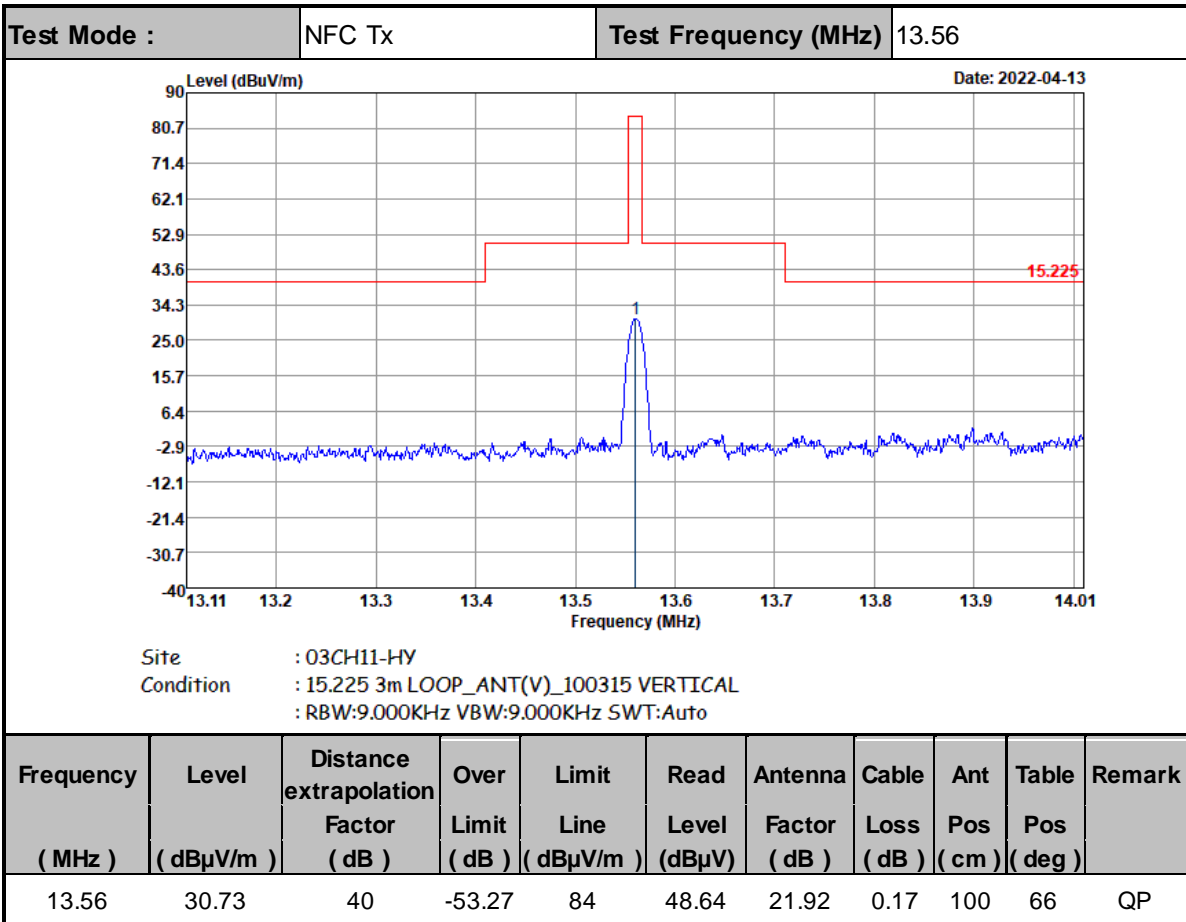
Note :

1. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
2. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.



<For Sample 2>





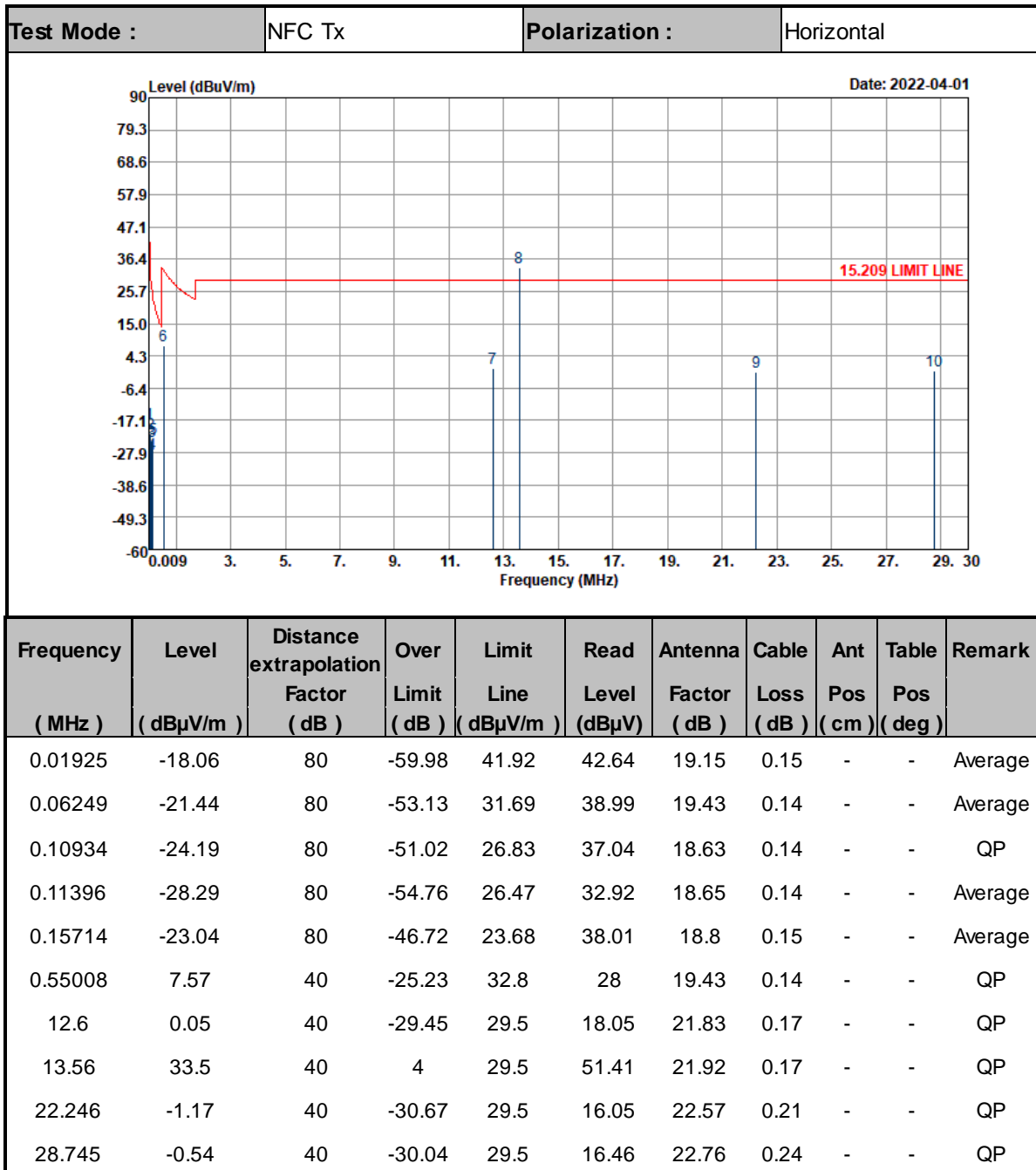
Note :

1. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
2. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.



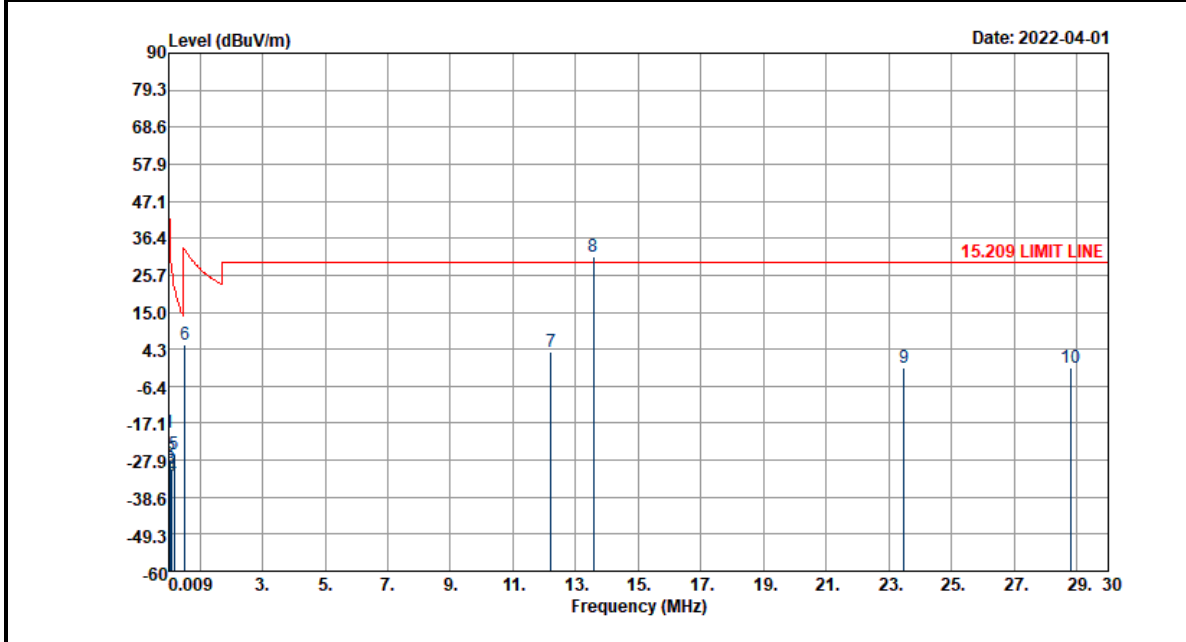
C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

<For Sample 1>





Test Mode :	NFC Tx	Polarization :	Vertical
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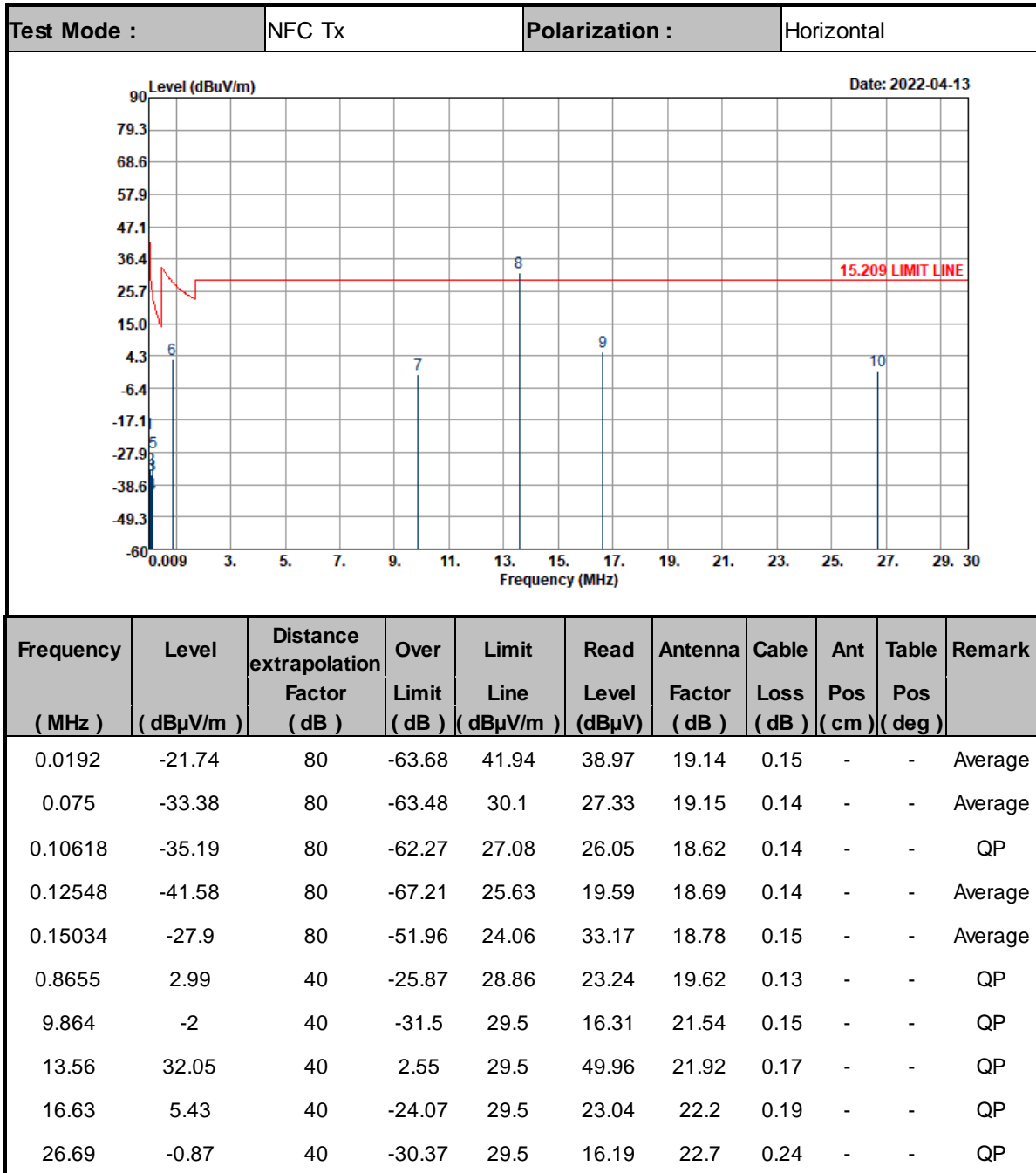


Frequency (MHz)	Level (dBuV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.0192	-19.68	80	-61.62	41.94	41.03	19.14	0.15	-	-	Average
0.06252	-27.81	80	-59.49	31.68	32.63	19.42	0.14	-	-	Average
0.0937	-30.32	80	-58.49	28.17	30.8	18.74	0.14	-	-	QP
0.11428	-32.58	80	-59.02	26.44	28.63	18.65	0.14	-	-	Average
0.17108	-26.06	80	-49	22.94	34.94	18.85	0.15	-	-	Average
0.52755	5.8	40	-27.36	33.16	26.23	19.42	0.15	-	-	QP
12.208	3.71	40	-25.79	29.5	21.75	21.8	0.16	-	-	QP
13.56	31.18	40	1.68	29.5	49.09	21.92	0.17	-	-	QP
23.47	-1.17	40	-30.67	29.5	16.01	22.6	0.22	-	-	QP
28.825	-1.08	40	-30.58	29.5	15.91	22.76	0.25	-	-	QP

Note :

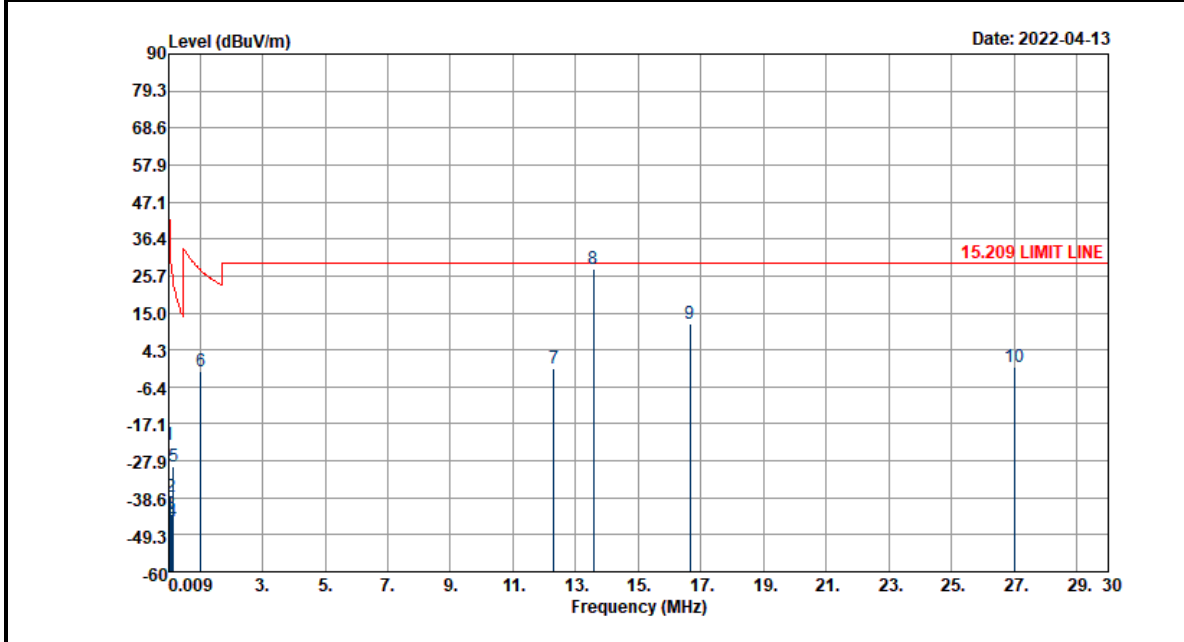
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
3. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.
4. 13.56 MHz is fundamental signal which can be ignored

<For Sample 2>





Test Mode :	NFC Tx	Polarization :	Vertical
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Frequency (MHz)	Level (dBuV/m)	Distance extrapolation Factor (dB)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.0192	-23.08	80	-65.02	41.94	37.63	19.14	0.15	-	-	Average
0.07506	-38.28	80	-68.38	30.1	22.43	19.15	0.14	-	-	Average
0.09966	-43.29	80	-70.92	27.63	17.96	18.61	0.14	-	-	QP
0.12832	-45.38	80	-70.82	25.44	15.78	18.7	0.14	-	-	Average
0.1568	-29.38	80	-53.08	23.7	31.67	18.8	0.15	-	-	Average
1.031	-1.74	40	-29.08	27.34	18.43	19.7	0.13	-	-	QP
12.304	-1.17	40	-30.67	29.5	16.86	21.81	0.16	-	-	QP
13.56	27.7	40	-1.8	29.5	45.61	21.92	0.17	-	-	QP
16.639	11.68	40	-17.82	29.5	29.29	22.2	0.19	-	-	QP
27	-0.53	40	-30.03	29.5	16.52	22.71	0.24	-	-	QP

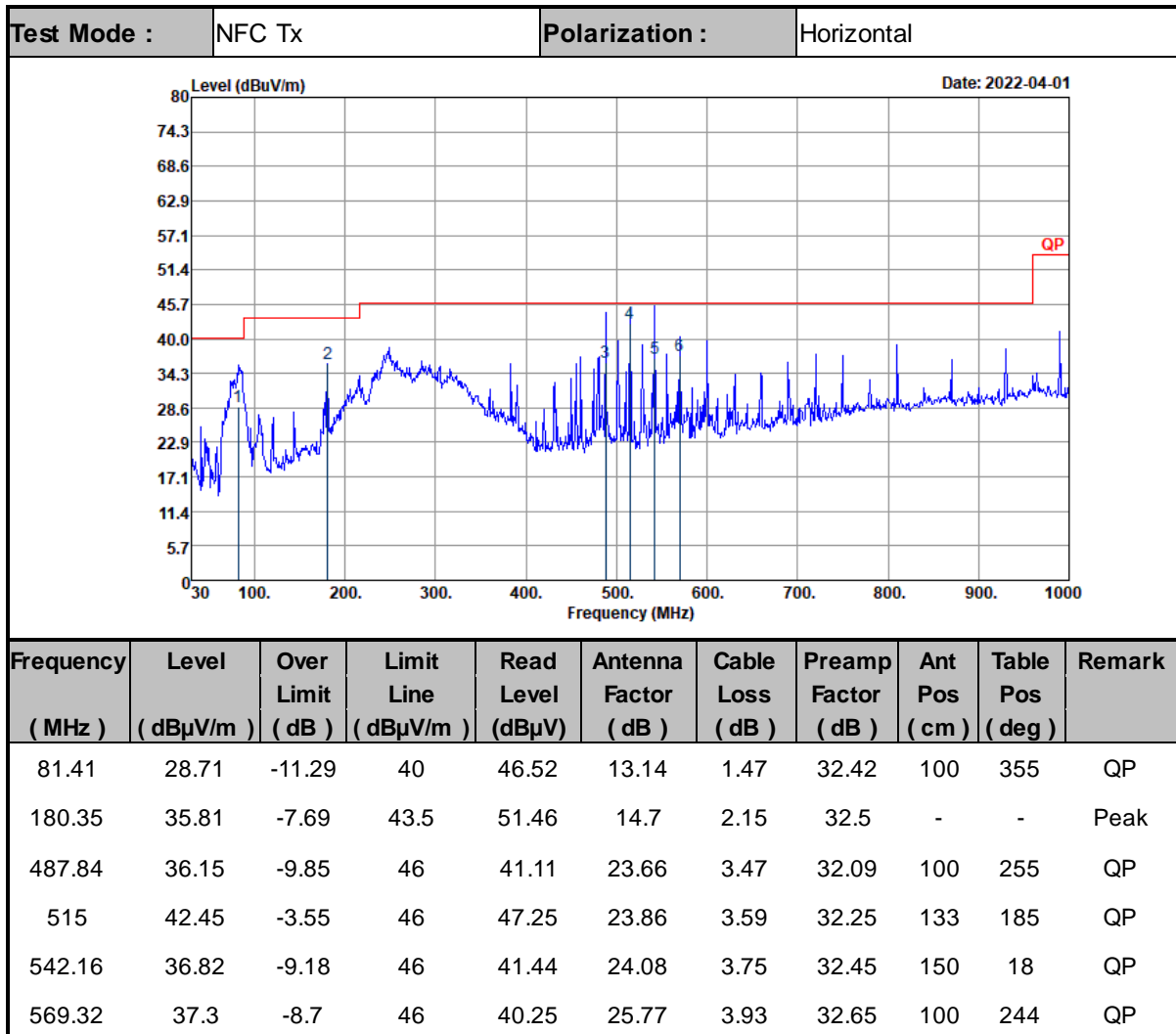
Note :

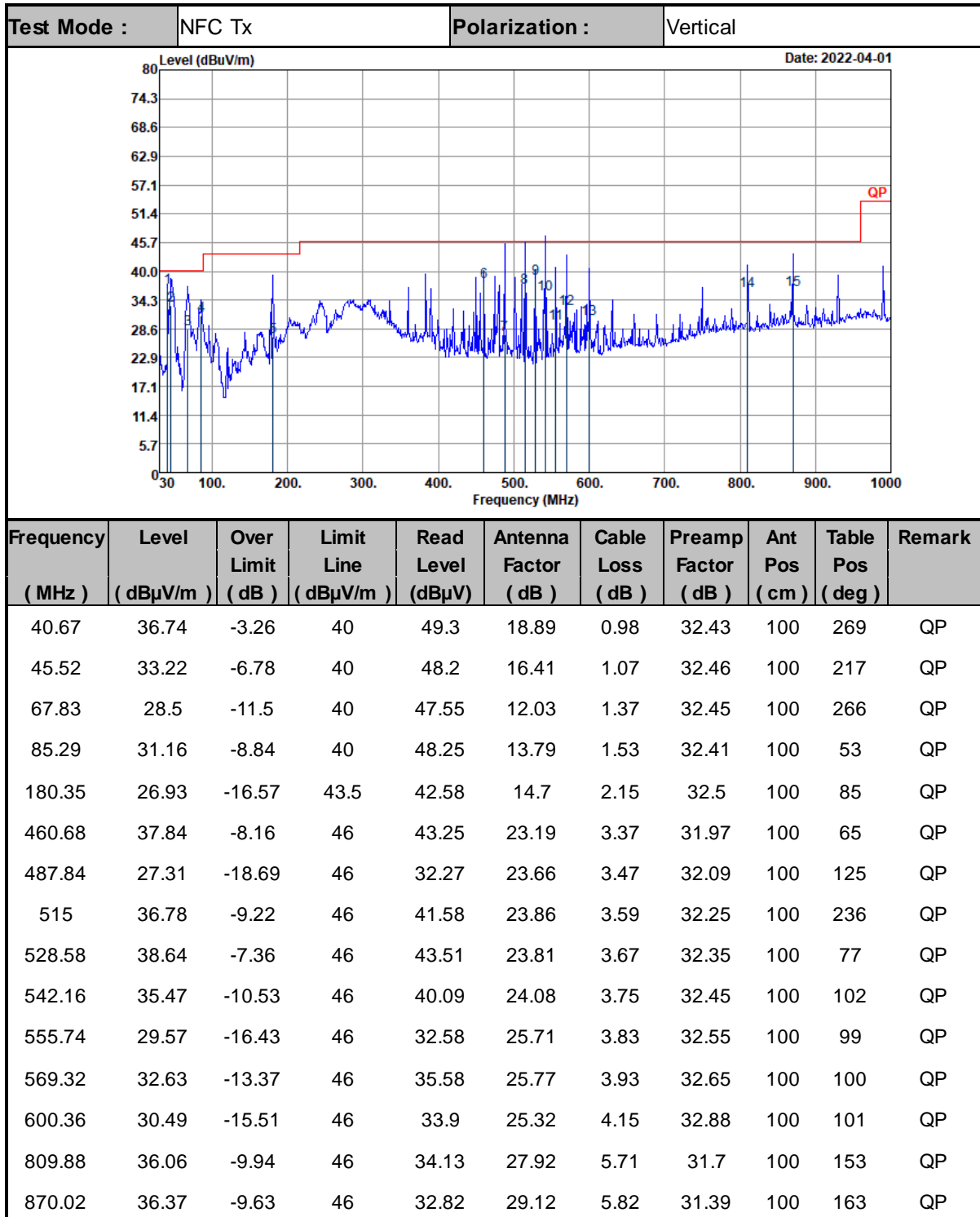
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
3. Level = Antenna Factor + Cable Loss + Read Level - Distance extrapolation factor.
4. 13.56 MHz is fundamental signal which can be ignored



C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

<For Sample 1>



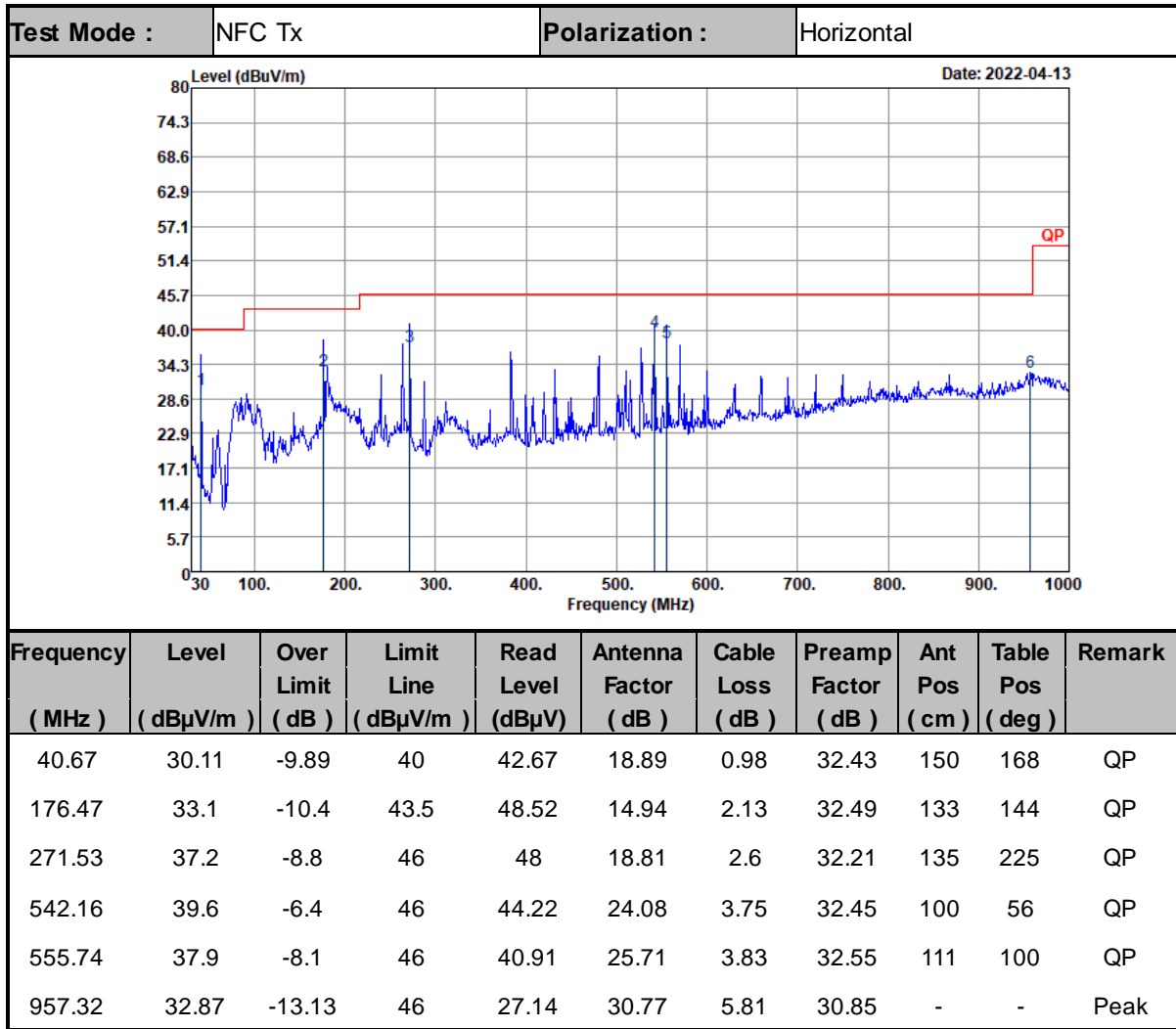


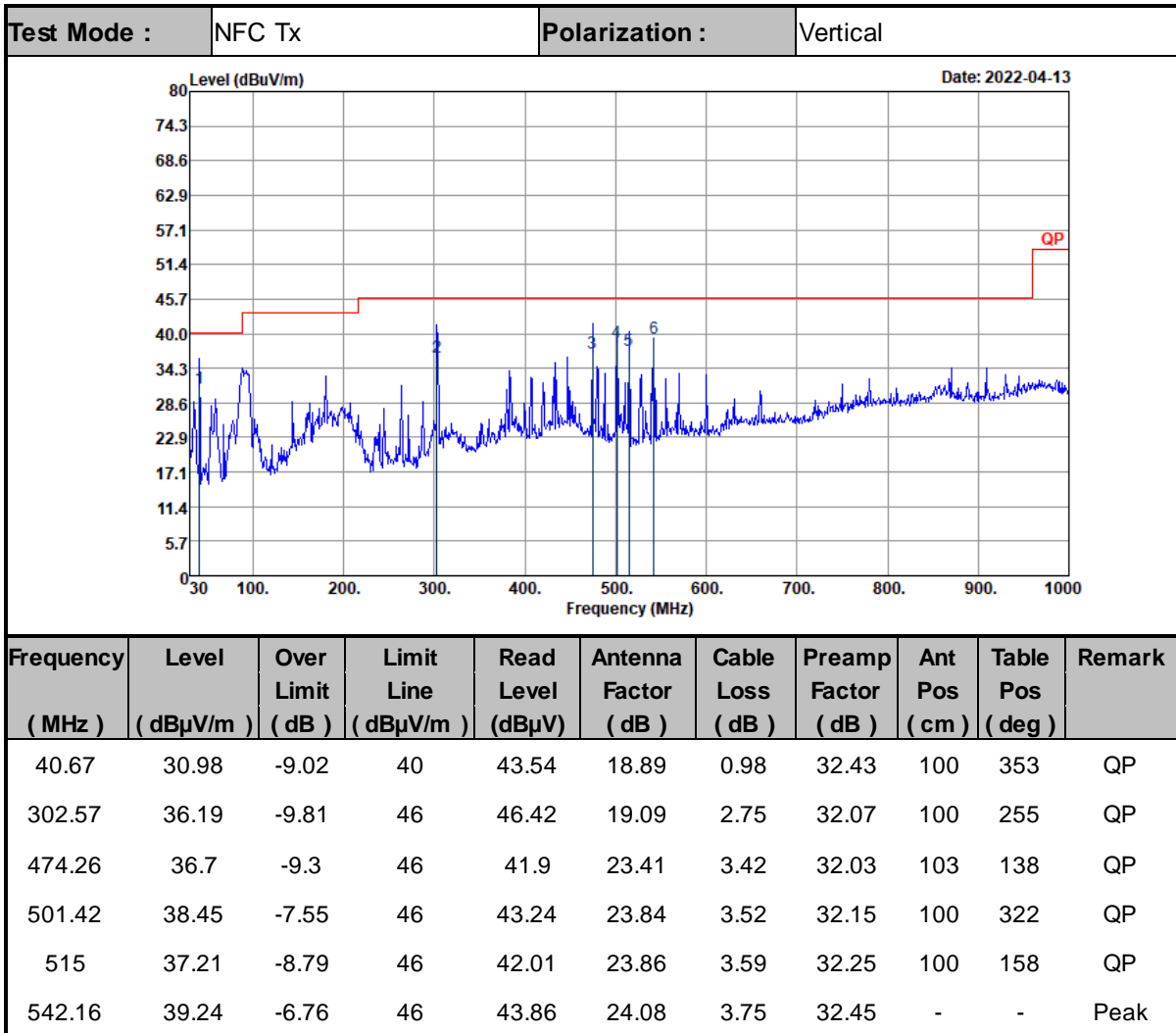
Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.



<For Sample 2>





Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.