

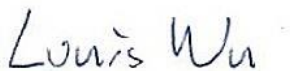


FCC CO-LOCATION RADIO TEST REPORT

FCC ID : 2AEUPBHADP021
Equipment : Video Doorbell
Brand Name : ring 
Model Name : 5DFYA3
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart C §15.249

The product was received on Aug. 06, 2025 and testing was performed from Sep. 10, 2025 to Sep. 11, 2025. We, Sporton International Inc. Wensan Laboratory, 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR572903G	01	Initial issue of report	Sep. 23, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.249(a) 15.249(d)	Unwanted Emissions	Pass	-
3.2	15.203	Antenna Requirement	Pass	-

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.

Reviewed by: Keven Cheng

Report Producer: Dara Chiu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, and Wi-Fi 5GHz 802.11a/n/ac/ax and 24GHz Radar.	
Antenna Type Bluetooth-LE: Stamped metal IFA Antenna WLAN: Stamped metal IFA antenna 24GHz Radar: Patch antenna	

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Bluetooth-LE: 4.0 WLAN: 3.5
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	4.0
24.05 GHz ~ 24.25 GHz	Peak Gain (dBi)	2.0

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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. 03CH12-HY , 03CH18-HY

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

FCC designation No.: 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 §15.249
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2020

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.



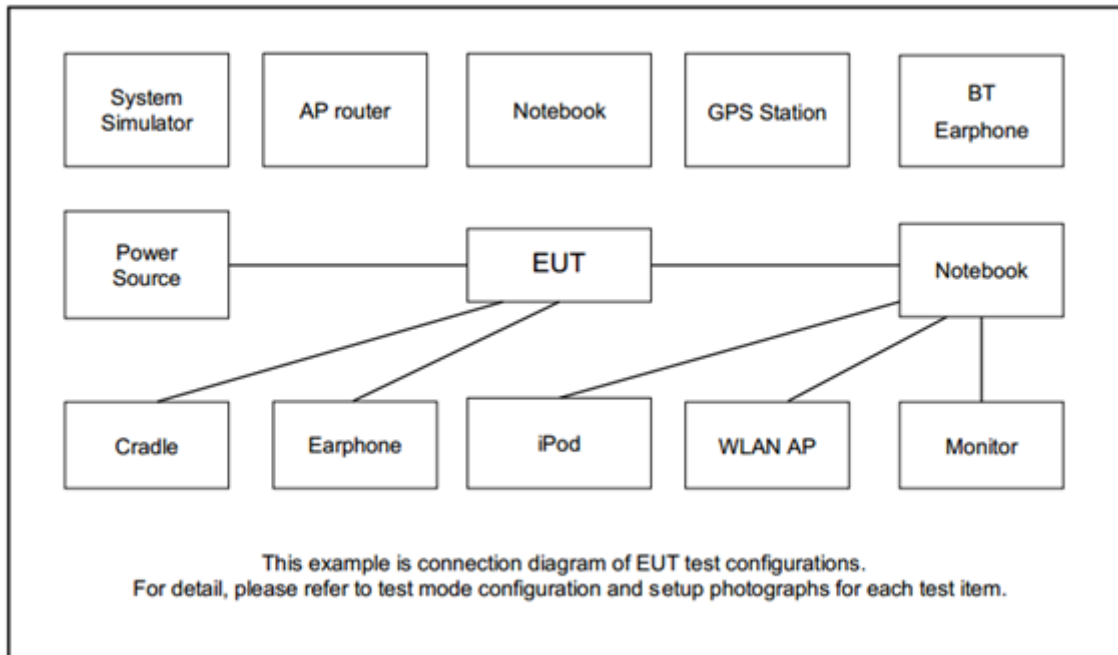
2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, 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 only the worst case emissions were reported in this report.

2.1 Test mode

The detailed Radiated test modes are shown in Appendix A

2.2 Connection Diagram of Test System



2.3 EUT Operation Test Setup

The RF test items, utility “Tera tern” were installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



3 Test Result

3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.1.1 Limit of Unwanted Emissions

3.1.2 Limit

The field strength measured at 3 meters shall not exceed the limits in the following table:

Rules and specifications	FCC CFR 47 Part 15 section 15.249	
Description	Field strength of fundamental	
24.0~24.25 (GHz)	Fundamental emissions (millivolts/meter) at 3m	Fundamental emissions (dBμV/m) at 3m
Average limits	250	107.95
Peak limits	-	127.95
Description	Field strength of harmonics	
24.0~24.25 (GHz)	Fundamental emissions (microvolts/meter) at 3m	Harmonic emissions (dBμV/m) at 3m
Average limits	2500	67.95
Peak limits	-	87.95
Note: Above 18GHz, the distance correction factor is used, 18GHz to 90GHz : $20\log(1\text{m}/3\text{m}) = -9.54\text{dB}$; 90GHz – 100GHz: $20\log(0.5\text{m}/3\text{m}) = -15.56\text{dB}$.		

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	$2400/F(\text{kHz})$	300
0.490 – 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3



3.1.3 Measuring Instruments

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

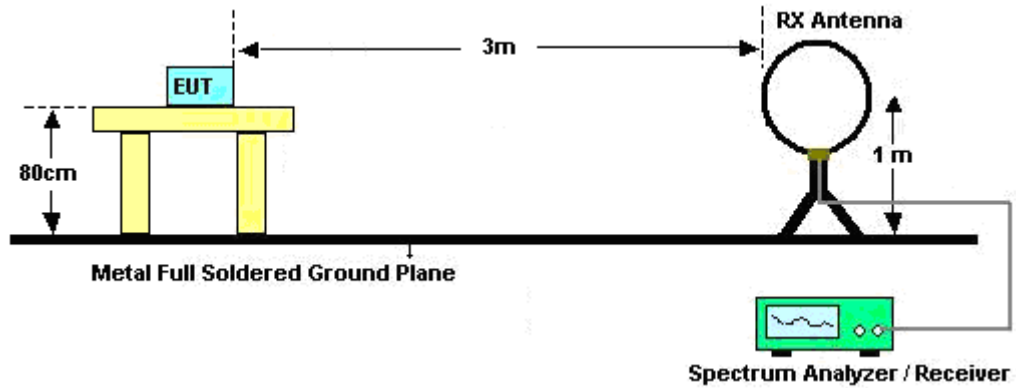
3.1.4 Test Procedures

For emissions 9KHz to 40GHz, ANSI C63.10 Section 6.3 Radiated emissions testing follows, and for emissions 40GHz to 100GHz, ANSI C63.10 Section 9.10 radiated measurements follows.

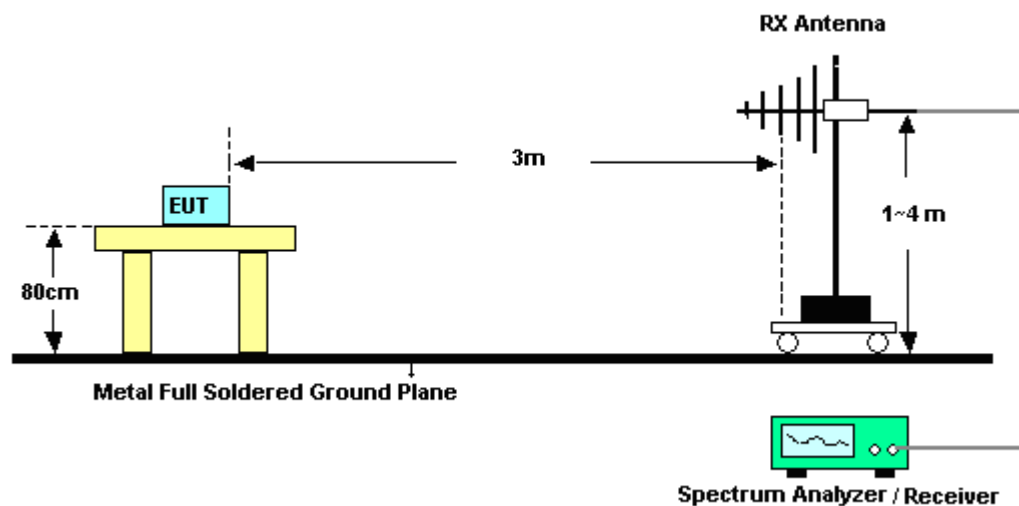
The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and with 1.5 meter height for frequency above 1GHz, and was arranged test distance as shown in Section 3.4 Test Setup, respectively. For emissions, test results are attenuated more than 20 dB below the permissible value need not be reported in accordance with FCC Part 15.31(O).

3.1.5 Test Setup

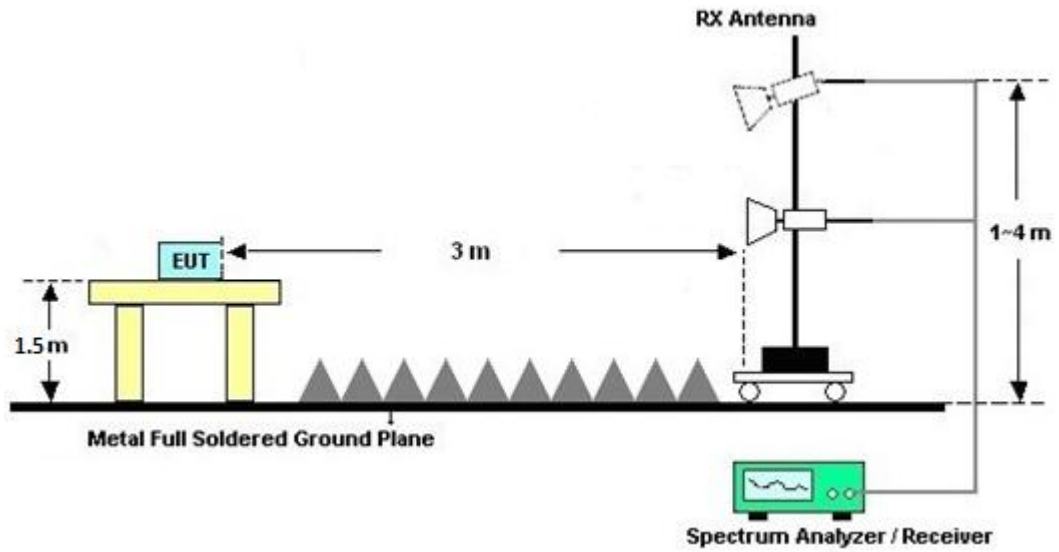
For radiated emissions below 30MHz



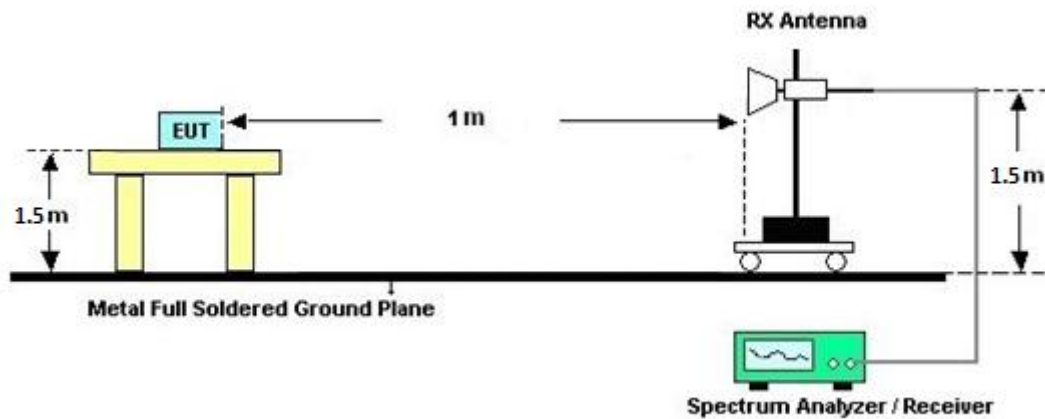
For radiated emissions from 30MHz to 1GHz



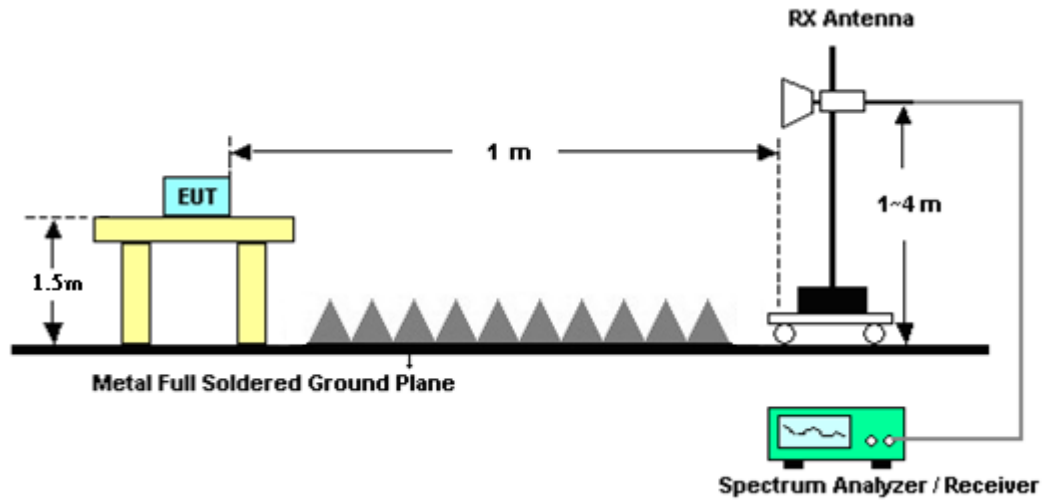
For radiated test from 1GHz to 18GHz



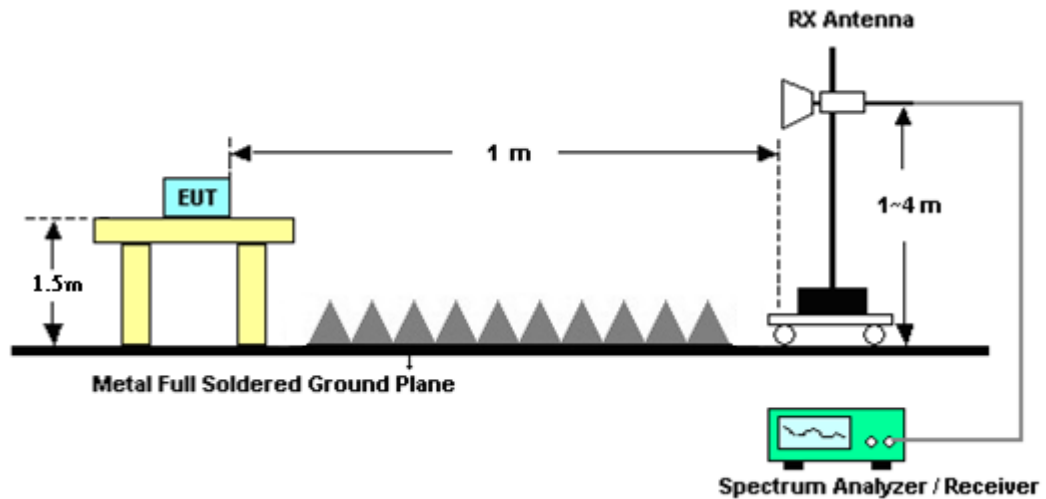
For radiated test above 18GHz



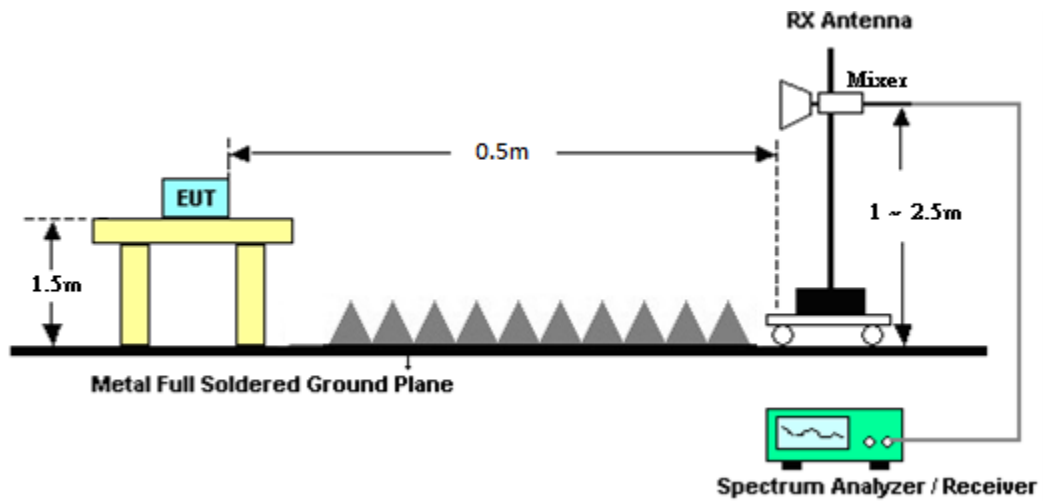
<For radiated emissions from 18 ~ 40GHz>



<For radiated emissions above 40 ~ 90GHz>



<For radiated emissions above 90 ~ 100GHz>



3.1.6 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

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.

3.1.7 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A.and B



3.2 Antenna Requirements

3.2.1 Standard Applicable

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.2.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec.18,2024	Sep. 10 2025~ Sep. 11 2025	Dec.17,2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz~1GHz	Oct. 05, 2024	Sep. 10 2025~ Sep. 11 2025	Oct. 04, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-02114	1GHz~18GHz	Jul. 02, 2025	Sep. 10 2025~ Sep. 11 2025	Jul. 01, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00994	18GHz~40GHz	Jan. 09, 2025	Sep. 10 2025~ Sep. 11 2025	Jan. 08, 2026	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 19, 2025	Sep. 10 2025~ Sep. 11 2025	Mar. 18, 2026	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	Feb. 07, 2025	Sep. 10 2025~ Sep. 11 2025	Feb. 06, 2026	Radiation (03CH12-HY)
Amplifier	EMEC	EM01G18GA	060941	1GHz~18GHz	Nov. 29, 2024	Sep. 10 2025~ Sep. 11 2025	Nov. 28, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900269	1GHz~18GHz	Dec. 19, 2024	Sep. 10 2025~ Sep. 11 2025	Dec. 18, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Sep. 10 2025~ Sep. 11 2025	Dec. 01, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 05, 2024	Sep. 10 2025~ Sep. 11 2025	Oct. 04, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290111	20Hz~26.5GHz	Nov. 22, 2024	Sep. 10 2025~ Sep. 11 2025	Nov. 21, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Sep. 10 2025~ Sep. 11 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 12, 2025	Sep. 10 2025~ Sep. 11 2025	Mar. 11, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Sep. 10 2025~ Sep. 11 2025	Dec. 18, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Sep. 10 2025~ Sep. 11 2025	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM-KM-100	240907	30MHz~40GHz	Nov. 14, 2024	Sep. 10 2025~ Sep. 11 2025	Nov. 13, 2025	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303B	TP200722	N/A	Mar. 03, 2025	Sep. 10 2025~ Sep. 11 2025	Mar. 02, 2026	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 10 2025~ Sep. 11 2025	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 10 2025~ Sep. 11 2025	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 10 2025~ Sep. 11 2025	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Sep. 10 2025~ Sep. 11 2025	N/A	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	BBHA917058 4	18GHz~40GHz	Dec.06,2024	Sep. 10, 2025 ~ Sep. 11, 2025	Dec.05,2025	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101009	10Hz~44GHz	Nov. 22, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Nov. 21, 2025	Radiation (03CH18-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Sep. 10, 2025 ~ Sep. 11, 2025	May. 25, 2026	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18GHz~40GHz	Dec. 31,2024	Sep. 10, 2025 ~ Sep. 11, 2025	Dec.30,2025	Radiation (03CH18-HY)
Turn Table	EMEC	N/A	N/A	Phi/Theta 0~360 Degree	N/A	Sep. 10, 2025 ~ Sep. 11, 2025	N/A	Radiation (03CH18-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table	N/A	Sep. 10, 2025 ~ Sep. 11, 2025	N/A	Radiation (03CH18-HY)
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	2Hz to 43.5GHz	Feb. 20, 2025	Sep. 10, 2025 ~ Sep. 11, 2025	Feb. 19, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z60	101033	40GHz to 60GHz	Jun. 27, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	FSZ-90	101867	60GHz to 90GHz	Jun. 27, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z140	101130	90GHz to 140GHz	Jun. 27, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	1410300003	40-60 GHz	Jun. 27, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	1372000000	60-90 GHz	Jun. 27, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Jun. 26, 2026	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-FPRR00	1011500008	90-140 GHz	Jun. 27, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Jun. 26, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Dec. 25, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519231/2	N/A	Dec. 25, 2024	Sep. 10, 2025 ~ Sep. 11, 2025	Dec. 24, 2025	Radiation (03CH18-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	N/A	Sep. 10, 2025 ~ Sep. 11, 2025	N/A	Radiation (03CH18-HY)

Note: (*) Equipment manufacturer's Calibration Certificate

5 Measurement Uncertainty

<03CH12-HY>

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.30 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.00 dB
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<03CH18-HY>

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.40 dB
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Uncertainty of Radiated Emission Measurement (40000 MHz ~ 10000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.59 dB
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Appendix A. Radiated Spurious Emission

WLAN 2.4G 802.11g CH6+BLE(2M)CH39 + 24G Radar

24GHz 24000~24250MHz

40~100GHz

(Radiated Spurious Emission & Harmonic @ 3m)

24GHz	Note	Frequency (GHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Antenna Factor (dB/m)	Offset Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
24.24GHz		48.477	58.28	-49.67	107.95	42.6	45.98	-	-	P	H
		48.4771	49.56	-38.39	87.95	42.6	45.98	-	-	A	H
		46.4642	58.33	-15.67	74	42.6	45.98	-	-	P	H
		51.1109	47.66	-6.34	54	42.6	45.98	-	-	A	H
		60.0205	61.44	-12.56	74	46.2	49.58	-	-	P	H
		60.0055	51.02	-2.98	54	46.2	49.58	-	-	A	H
		72.72	52.98	-54.97	107.95	46.2	49.58	-	-	P	H
		72.72	43.74	-44.21	87.95	46.2	49.58	-	-	A	H
		91.2004	62.2	-11.8	74	47.6	44.96	-	-	P	H
		90.1775	51.43	-2.57	54	47.6	44.96	-	-	A	H
		96.96	49.11	-58.84	107.95	47.6	44.96	-	-	P	H
		96.96	39.71	-48.24	87.95	47.6	44.96	-	-	A	H
		48.477	55.44	-52.51	107.95	42.6	45.98	-	-	P	V
		48.4771	47.42	-40.53	87.95	42.6	45.98	-	-	A	V
		49.154	56.53	-17.47	74	42.6	45.98	-	-	P	V
		49.196	46.17	-7.83	54	42.6	45.98	-	-	A	V
		60.1915	61.58	-12.42	74	46.2	49.58	-	-	P	V
		60.0485	51	-3	54	46.2	49.58	-	-	A	V
		72.72	52.05	-55.9	107.95	46.2	49.58	-	-	P	V
		72.72	43.87	-44.08	87.95	46.2	49.58	-	-	A	V
		90.2195	61.88	-12.12	74	47.6	44.96	-	-	P	V
		90.2065	51.45	-2.55	54	47.6	44.96	-	-	A	V
		96.96	47.98	-59.97	107.95	47.6	44.96	-	-	P	V
		96.96	40.08	-47.87	87.95	47.6	44.96	-	-	A	V
Remark	1. Except above, no other spurious found.										

	2. All results are Pass against Peak and Average limit line. 3. Test plots shown in the Annex B use closer distance and above final results are extrapolated to the distance specified by the limit, 3m, by offset with distance correction factor. 4. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only 5. Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB) Distance extrapolation factor = $20 \log (1\text{m}/3\text{m}) = -9.54$ (dB) Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB) 6. Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + $20 \log (D) - 104.8$ + Duty Factor
--	--

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



Appendix B. Radiated Spurious Emission Plots

Test Engineer :	Fu Chen and Eric Jeng	Temperature :	19.2~22.6°C
		Relative Humidity :	51.2~65.7%

24GHz 24000~24250MHz

Field strength of fundamental@ 3m

24GHz

Field strength of fundamental

Test frequency:24.24GHz

Horizontal

Vertical

Peak

Date: 1

Level (dBuV/m)

Date: 2025-09-10

Site : 03CH-B-HY
Condition : 15.240_Peak 1m 9170584_20241206 HORIZONTAL
: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto
Project : 572903
Mode : 14

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	23824.00	35.94	-38.86	74.00	54.47	38.94	6.08	54.81	160	160 Peak
2	24238.00	95.98	-31.97	127.95	113.97	39.00	6.16	53.61	160	160 Peak
3	24258.00	62.79	-11.21	74.00	80.77	39.00	6.16	53.68	160	160 Peak

Date: 3

Level (dBuV/m)

Date: 2025-09-10

Site : 03CH-B-HY
Condition : 15.240_Peak 1m 9170584_20241206 VERTICAL
: RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto
Project : 572903
Mode : 14

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	23776.00	37.87	-36.13	74.00	56.43	38.94	6.07	54.81	115	164 Peak
2	24238.00	95.89	-32.86	127.95	113.08	39.00	6.16	53.61	115	164 Peak
3	24258.00	62.49	-11.51	74.00	80.47	39.00	6.16	53.68	115	164 Peak

Av.

Date: 2

Level (dBuV/m)

Date: 2025-09-10

Site : 03CH-B-HY
Condition : AVG_54 1m 9170584_20241206 HORIZONTAL
: RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto
Project : 572903
Mode : 14

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	23808.00	23.53	-30.47	54.00	42.87	38.94	6.08	54.81	160	160 Average
2	24238.00	95.75	-12.25	108.00	113.74	39.00	6.16	53.61	160	160 Average
3	24258.00	52.13	-1.87	54.00	70.11	39.00	6.16	53.68	160	160 Average

Date: 4

Level (dBuV/m)

Date: 2025-09-10

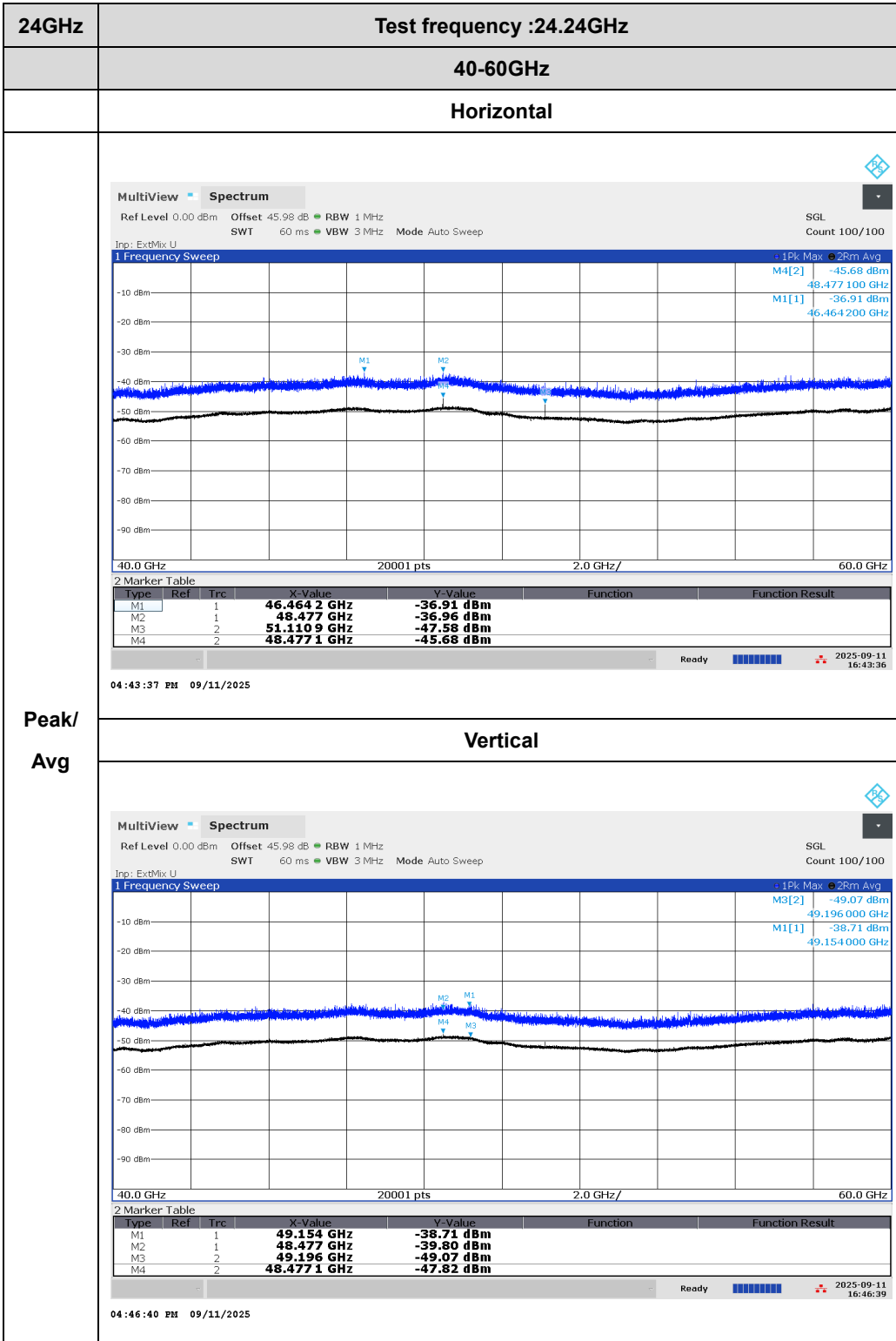
Site : 03CH-B-HY
Condition : AVG_54 1m 9170584_20241206 VERTICAL
: RBW:1000.0000Hz VBW:0.0100Hz SWT:Auto
Project : 572903
Mode : 14

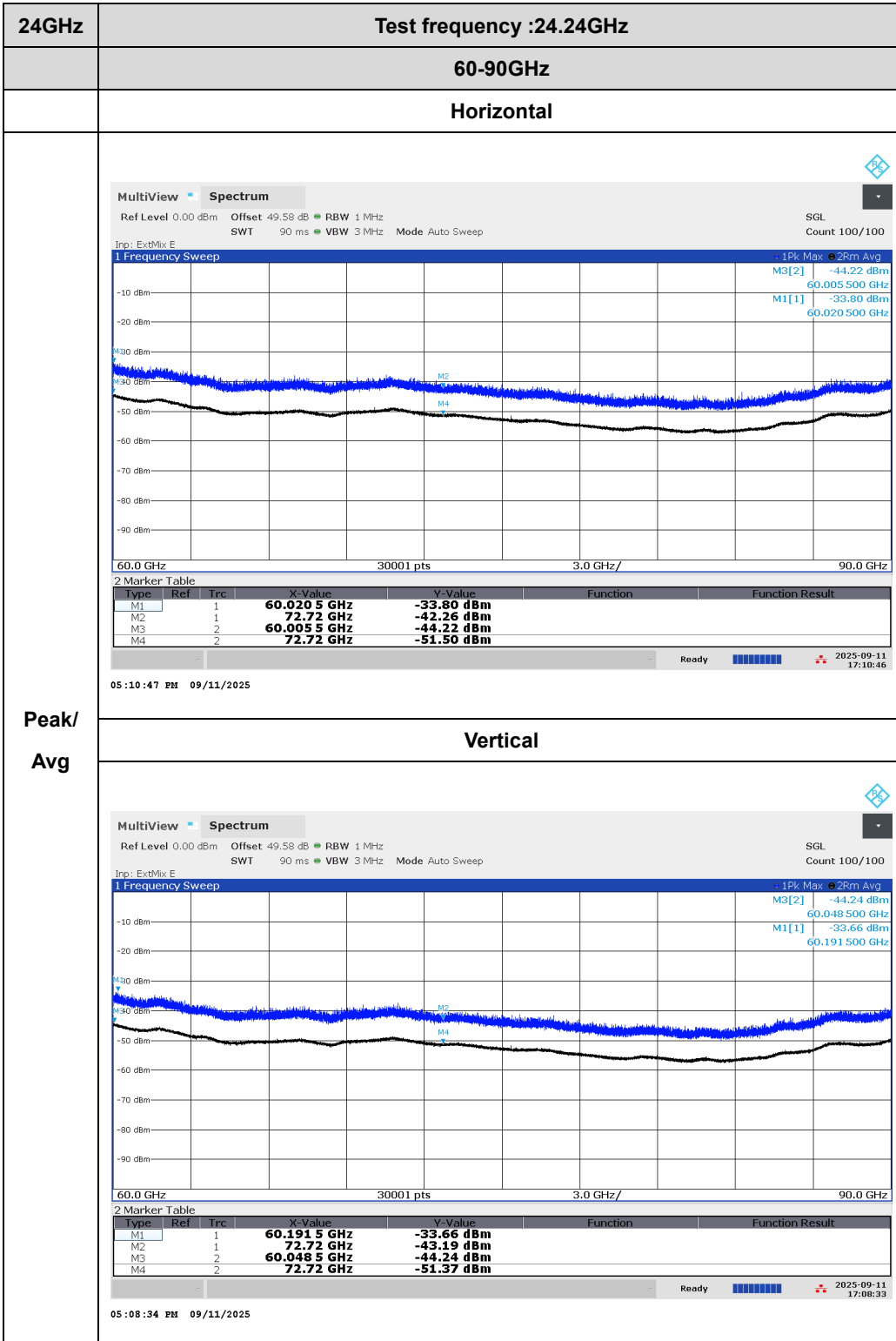
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	23738.00	25.14	-28.86	54.00	43.72	39.95	6.07	54.86	115	164 Average
2	24238.00	94.73	-13.27	108.00	112.72	39.00	6.16	53.61	115	164 Average
3	24258.00	51.23	-2.77	54.00	69.21	39.00	6.16	53.68	115	164 Peak

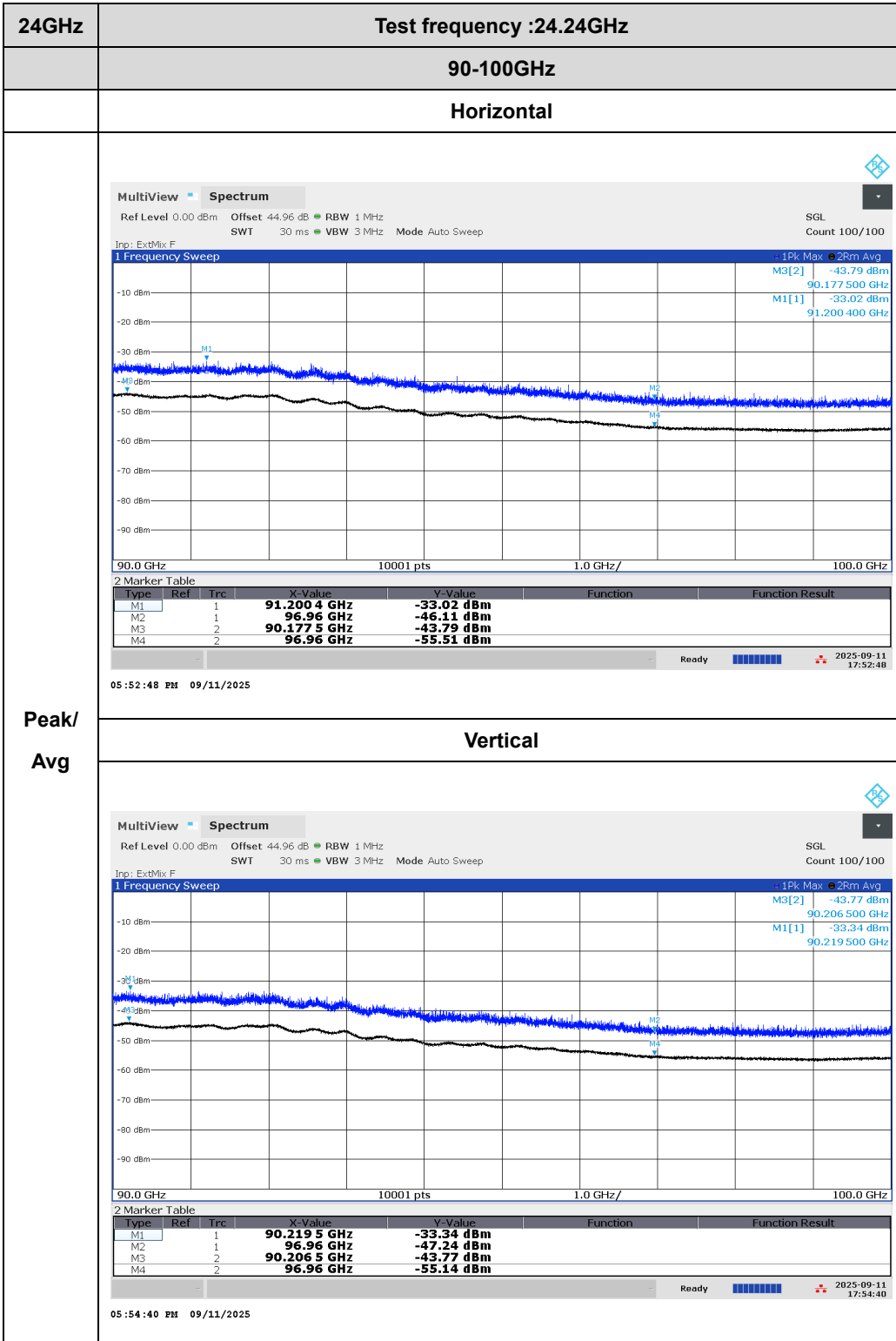


24GHz 24000~24250MHz
(Radiated Spurious Emission& Harmonic @ 3m)

24GHz	Test frequency :24.24GHz																																																																																																	
	18-40GHz																																																																																																	
	Horizontal	Vertical																																																																																																
Pak	Date: 1 Date: 2025-09-10 Site : 03CH-B-HY Condition : 15.249_Peak Im 9170584_20241206 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 572903 Mode : 4 <table><thead><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm deg</th></tr></thead><tbody><tr><td>1 22774.00</td><td>38.44</td><td>-35.56</td><td>74.00</td><td>57.84</td><td>38.96</td><td>5.87</td><td>54.69 160 160 Peak</td></tr><tr><td>2 24226.00</td><td>96.01</td><td>-31.94</td><td>127.95</td><td>114.04</td><td>38.99</td><td>6.15</td><td>53.63 160 160 Peak</td></tr><tr><td>3 39384.00</td><td>43.25</td><td>-38.75</td><td>74.00</td><td>56.28</td><td>44.31</td><td>8.79</td><td>56.59 160 160 Peak</td></tr></tbody></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm deg	1 22774.00	38.44	-35.56	74.00	57.84	38.96	5.87	54.69 160 160 Peak	2 24226.00	96.01	-31.94	127.95	114.04	38.99	6.15	53.63 160 160 Peak	3 39384.00	43.25	-38.75	74.00	56.28	44.31	8.79	56.59 160 160 Peak	Date: 3 Date: 2025-09-10 Site : 03CH-B-HY Condition : 15.249_Peak Im 9170584_20241206 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 572903 Mode : 4 <table><thead><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm deg</th></tr></thead><tbody><tr><td>1 20860.00</td><td>38.70</td><td>-35.30</td><td>74.00</td><td>58.39</td><td>38.92</td><td>5.80</td><td>54.87 115 164 Peak</td></tr><tr><td>2 24226.00</td><td>94.98</td><td>-32.97</td><td>127.95</td><td>113.01</td><td>38.99</td><td>6.15</td><td>53.63 115 164 Peak</td></tr><tr><td>3 39458.00</td><td>44.56</td><td>-29.44</td><td>74.00</td><td>57.36</td><td>44.36</td><td>8.92</td><td>56.54 115 164 Peak</td></tr></tbody></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm deg	1 20860.00	38.70	-35.30	74.00	58.39	38.92	5.80	54.87 115 164 Peak	2 24226.00	94.98	-32.97	127.95	113.01	38.99	6.15	53.63 115 164 Peak	3 39458.00	44.56	-29.44	74.00	57.36	44.36	8.92	56.54 115 164 Peak
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Avg	Date: 2 Date: 2025-09-10 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 572903 Mode : 4 <table><thead><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm deg</th></tr></thead><tbody><tr><td>1 22774.00</td><td>38.90</td><td>-23.10</td><td>54.00</td><td>50.30</td><td>38.96</td><td>5.87</td><td>54.69 160 160 Average</td></tr><tr><td>2 24226.00</td><td>95.43</td><td>-12.57</td><td>108.00</td><td>113.46</td><td>38.99</td><td>6.15</td><td>53.63 160 160 Average</td></tr><tr><td>3 39486.00</td><td>29.75</td><td>-24.25</td><td>54.00</td><td>42.71</td><td>44.12</td><td>8.84</td><td>56.58 160 160 Average</td></tr></tbody></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm deg	1 22774.00	38.90	-23.10	54.00	50.30	38.96	5.87	54.69 160 160 Average	2 24226.00	95.43	-12.57	108.00	113.46	38.99	6.15	53.63 160 160 Average	3 39486.00	29.75	-24.25	54.00	42.71	44.12	8.84	56.58 160 160 Average	Date: 4 Date: 2025-09-10 Site : 03CH-B-HY Condition : AVG_54 Im 9170584_20241206 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : 572903 Mode : 4 <table><thead><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm deg</th></tr></thead><tbody><tr><td>1 22774.00</td><td>38.14</td><td>-23.86</td><td>54.00</td><td>49.54</td><td>38.96</td><td>5.87</td><td>54.69 115 164 Average</td></tr><tr><td>2 24226.00</td><td>94.85</td><td>-13.15</td><td>108.00</td><td>112.88</td><td>38.99</td><td>6.15</td><td>53.63 115 164 Average</td></tr><tr><td>3 39978.00</td><td>31.52</td><td>-22.48</td><td>54.00</td><td>44.22</td><td>44.21</td><td>8.46</td><td>55.83 115 164 Average</td></tr></tbody></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Limit	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm deg	1 22774.00	38.14	-23.86	54.00	49.54	38.96	5.87	54.69 115 164 Average	2 24226.00	94.85	-13.15	108.00	112.88	38.99	6.15	53.63 115 164 Average	3 39978.00	31.52	-22.48	54.00	44.22	44.21	8.46	55.83 115 164 Average
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24GHz	Test frequency :24.24GHz																																																																																																									
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Peak/ Avg.	Level (dBuV/m) Date: 2025-09-10 Site : 83CH2-HY Condition: PEAK_74 3m 91280-82114-258782 HORIZONTAL Mode : 12 Plane Setting : Plane : <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</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/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4500.00</td><td>42.37</td><td>74.00</td><td>-31.63</td><td>65.83</td><td>11.44</td><td>18.03</td><td>67.38</td><td>0.39</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>46.21</td><td>74.00</td><td>-27.79</td><td>62.67</td><td>16.74</td><td>13.25</td><td>66.66</td><td>0.21</td><td>--</td><td>--</td><td>PEAK</td></tr></table>		Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	cm	deg		1	4500.00	42.37	74.00	-31.63	65.83	11.44	18.03	67.38	0.39	--	--	PEAK	2	7440.00	46.21	74.00	-27.79	62.67	16.74	13.25	66.66	0.21	--	--	PEAK	Level (dBuV/m) Date: 2025-09-10 Site : 83CH2-HY Condition: PEAK_74 3m 91280-82114-258782 VERTICAL Mode : 12 Plane Setting : Plane : <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read Level</th><th>Ant Factor</th><th>Cable Loss</th><th>Preamp Factor</th><th>Aux Factor</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/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4500.00</td><td>42.37</td><td>74.00</td><td>-31.63</td><td>65.29</td><td>11.44</td><td>18.03</td><td>67.38</td><td>0.39</td><td>--</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>45.64</td><td>74.00</td><td>-28.36</td><td>62.18</td><td>16.74</td><td>13.25</td><td>66.66</td><td>0.21</td><td>--</td><td>--</td><td>PEAK</td></tr></table>		Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	cm	deg		1	4500.00	42.37	74.00	-31.63	65.29	11.44	18.03	67.38	0.39	--	--	PEAK	2	7440.00	45.64	74.00	-28.36	62.18	16.74	13.25	66.66	0.21	--	--	PEAK
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Emission below 1GHz

24GHz

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QP / Peak	Site : 85CH12-MY Condition: QP 3e 81log_47020 & 06_241805 HORIZONTAL Node : 31 Setting : Plane : <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th>dB/u</th><th></th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>32.91</td><td>26.26</td><td>40.00</td><td>-13.74</td><td>31.86</td><td>23.33</td><td>0.78</td><td>20.75</td><td>0.04</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>94.62</td><td>28.28</td><td>43.58</td><td>-13.22</td><td>41.38</td><td>15.33</td><td>1.34</td><td>29.78</td><td>0.89</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>154.98</td><td>28.95</td><td>43.58</td><td>-14.54</td><td>41.41</td><td>15.14</td><td>1.92</td><td>29.63</td><td>0.12</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>278.32</td><td>31.59</td><td>46.00</td><td>-14.41</td><td>39.74</td><td>18.88</td><td>2.32</td><td>29.58</td><td>0.15</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>721.31</td><td>35.72</td><td>46.00</td><td>-6.28</td><td>36.44</td><td>27.97</td><td>3.74</td><td>28.75</td><td>0.32</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>929.19</td><td>33.68</td><td>46.00</td><td>-12.32</td><td>27.23</td><td>30.17</td><td>4.22</td><td>28.37</td><td>0.43</td><td>--</td><td>--</td><td>Peak</td></tr></table>	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark						Level	Factor	Loss	Factor	Factor									dBuV	dB/u		dB	dB	dB	dB	deg	1	32.91	26.26	40.00	-13.74	31.86	23.33	0.78	20.75	0.04	--	--	Peak	2	94.62	28.28	43.58	-13.22	41.38	15.33	1.34	29.78	0.89	--	--	Peak	3	154.98	28.95	43.58	-14.54	41.41	15.14	1.92	29.63	0.12	--	--	Peak	4	278.32	31.59	46.00	-14.41	39.74	18.88	2.32	29.58	0.15	--	--	Peak	5	721.31	35.72	46.00	-6.28	36.44	27.97	3.74	28.75	0.32	--	--	Peak	6	929.19	33.68	46.00	-12.32	27.23	30.17	4.22	28.37	0.43	--	--	Peak	Site : 85CH12-MY Condition: QP 3e 81log_47020 & 06_241805 VERTICAL Node : 31 Setting : Plane : <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th>dB/u</th><th></th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>38.73</td><td>31.56</td><td>40.00</td><td>-6.44</td><td>42.18</td><td>20.31</td><td>0.98</td><td>20.79</td><td>0.04</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>93.11</td><td>31.86</td><td>43.58</td><td>-11.64</td><td>45.27</td><td>14.95</td><td>1.33</td><td>29.78</td><td>0.89</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>265.62</td><td>25.83</td><td>46.00</td><td>-20.17</td><td>33.61</td><td>19.31</td><td>2.27</td><td>29.51</td><td>0.15</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>587.24</td><td>26.18</td><td>46.00</td><td>-19.82</td><td>28.85</td><td>23.87</td><td>3.17</td><td>29.06</td><td>0.15</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>788.83</td><td>31.15</td><td>46.00</td><td>-14.85</td><td>33.38</td><td>26.73</td><td>3.71</td><td>28.77</td><td>0.38</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>953.44</td><td>34.54</td><td>46.00</td><td>-11.46</td><td>27.86</td><td>31.88</td><td>4.27</td><td>28.31</td><td>0.44</td><td>--</td><td>--</td><td>Peak</td></tr></table>	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark						Level	Factor	Loss	Factor	Factor									dBuV	dB/u		dB	dB	dB	dB	deg	1	38.73	31.56	40.00	-6.44	42.18	20.31	0.98	20.79	0.04	--	--	Peak	2	93.11	31.86	43.58	-11.64	45.27	14.95	1.33	29.78	0.89	--	--	Peak	3	265.62	25.83	46.00	-20.17	33.61	19.31	2.27	29.51	0.15	--	--	Peak	4	587.24	26.18	46.00	-19.82	28.85	23.87	3.17	29.06	0.15	--	--	Peak	5	788.83	31.15	46.00	-14.85	33.38	26.73	3.71	28.77	0.38	--	--	Peak	6	953.44	34.54	46.00	-11.46	27.86	31.88	4.27	28.31	0.44	--	--	Peak
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