

FCC Test Report

Report No.: RFBICK-WTW-P25080284

FCC ID: CWTUKCZB1A

Test Model: UKCZB1A

Received Date: Aug. 13, 2025

Test Date: Sep. 10, 2025 ~ Jan. 10, 2026

Issued Date: Jan. 12, 2026

Applicant: ALPS ALPINE CO., LTD.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / (1) 788550 / TW0003

Designation Number: (2) 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
RFBICK-WTW-P25080284	Original Release	Jan. 12, 2026

1 Certificate of Conformity

Product: 60 GHz Radar board

Brand: ALPSALPINE

Test Model: UKCZB1A

Sample Status: Engineering Sample

Applicant: ALPS ALPINE CO., LTD.

Test Date: Sep. 10, 2025 ~ Jan. 10, 2026

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.255)

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :

Vera Huang

Date: Jan. 12, 2026

Vera Huang / Specialist

Approved by :

Jeremy Lin

Date: Jan. 12, 2026

Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.255)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -14.83 dB at 0.19400 MHz.
15.255(c)	10dB Bandwidth	Pass	Meet the requirement of limit.
15.255(c)	Output Power	Pass	Meet the requirement of limit.
15.255(d) 15.205 15.209	Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -5.3dB at 39837.00MHz.
15.255(f)	Frequency Stability	Pass	Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty
		(k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.90 dB
Radiated Emissions	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB
	40GHz ~ 66GHz	4.59 dB
	66GHz ~ 100GHz	5.37 dB
	Above 100GHz	5.40 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	60 GHz Radar board
Brand	ALPSALPINE
Test Model	UKCZB1A
Sample Status	Engineering Sample
Power Supply Rating	5Vdc from host equipment
Modulation Type	Pulse Modulation
Operating Frequency	57 ~ 64GHz
Output Power (EIRP)	17.87dBm

Note:

1. The antenna information is listed as below.

Antenna Type	Antenna Gain (dBi)	Connector Type
Folded dipole antenna	5.4	N/A

* Only radiated measurements are used to show compliance with FCC limits for fundamental and spurious emissions.

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

Operating Frequency is provided for EUT.

Operating Frequency (GHz)
57~64

3.2.1 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The EUT can be used in the following ways: X-axis / Y-axis / Z-axis. 2. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis / Y-axis / Z-axis Worst Condition: Y-axis

* Please refer to the "Test Setup Photo" for the three-axis placement definition of the EUT.

EUT Configure Mode	Applicable To						Description
	PLC	BW	OP	FS	RE < 1G	RE ≥ 1G	
A	√		√	√	√	√	Pulse width 800ps
B		√					Pulse width 800ps & 2000ps

Where PLC: Power Line Conducted Emission BW: 10dB Bandwidth
OP: Output Power FS: Frequency Stability
RE < 1G: Radiated Emission below 1GHz RE ≥ 1G: Radiated Emission above 1GHz

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A	1	1	Pulse Modulation

10dB Bandwidth Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
B	1	1	Pulse Modulation

Output Power Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A	1	1	Pulse Modulation

Frequency Stability Test:

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A	1	1	Pulse Modulation

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A	1	1	Pulse Modulation

Radiated Emission Test (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A	1	1	Pulse Modulation

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested By
PLC	25 deg. C, 75 %RH	120Vac, 60Hz	Greg Lin
BW	23 deg. C, 66 %RH	5Vdc	Wade Huang
OP	23 deg. C, 66 %RH	5Vdc	Wade Huang
FS	23 deg. C, 66 %RH	5Vdc	Wade Huang
RE<1G	22 deg. C, 68 %RH	120Vac, 60Hz	Wade Huang
RE≥1G	22 deg. C, 67 %RH 25 deg. C, 66 %RH	120Vac, 60Hz	Wade Huang

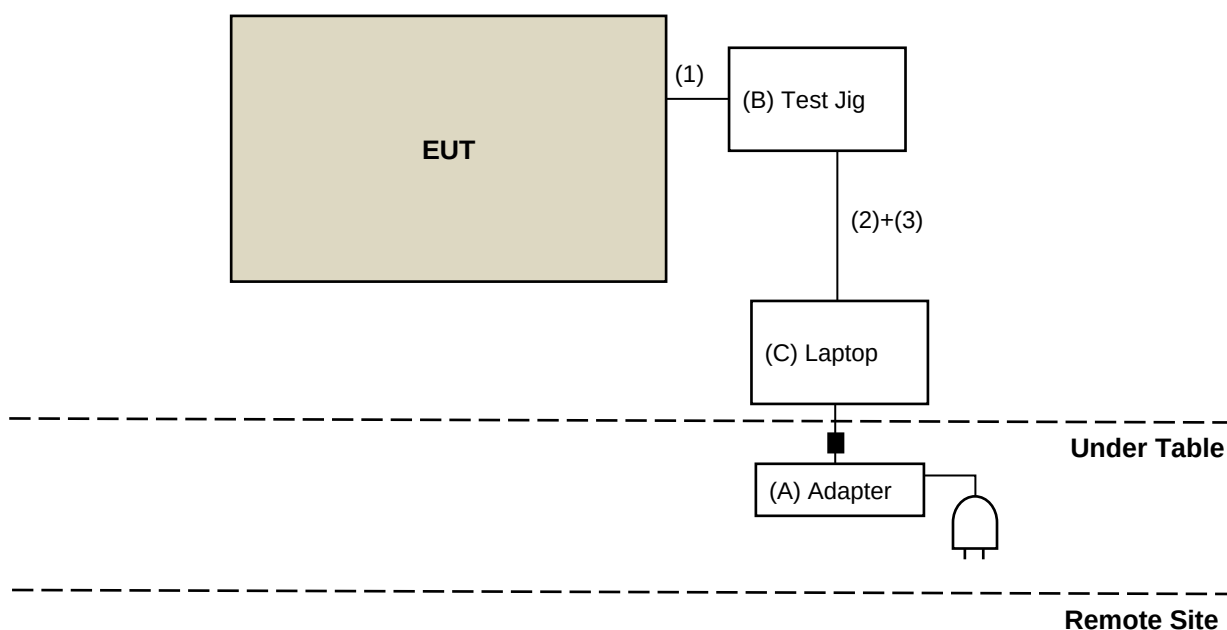
3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Adapter	Lenovo	ADLX45NDC3A	N/A	N/A	Provided by Lab
B.	Test Jig	ALPSALPINE	N/A	N/A	N/A	Supplied by applicant
C.	Laptop	Lenovo	L440	R9-0GFJJK	N/A	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	FFC Cable	1	0.13	No	0	Supplied by applicant
2.	USB type C Cable	1	3.1	No	0	Supplied by applicant
3.	USB Controller	1	0.3	No	0	Supplied by applicant

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.255)

ANSI C63.10-2020

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission Measurement

4.1.1 Limits of Radiated Emission Measurement

Spurious Emission	
Frequency Range	Limitation
Radiated emissions below 40GHz	Part 15.209
Between 40GHz and 200GHz	90pW/cm ² (at 3 meter)
Note: The levels of the spurious emissions shall not exceed the level of the fundamental emission.	

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. Section 15.205 restricted bands of operation shall compliance with the limits in Section 15.209.

4.1.2 Test Instruments

For Below 40GHz and Frequency Stability

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
MXE EMI Receiver Keysight	N9038B	MY60180018	Mar. 18, 2025	Mar. 17, 2026
PXA Signal Analyzer Keysight	N9030B	MY57140488	Mar. 11, 2025	Mar. 10, 2026
BILOG Antenna SCHWARZBECK	VULB9168	9168-995	Oct. 09, 2024 Sep. 17, 2025	Oct. 08, 2025 Sep. 16, 2026
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-404	Nov. 10, 2024 Nov. 09, 2025	Nov. 09, 2025 Nov. 08, 2026
HORN Antenna SCHWARZBECK	BBHA 9170	995	Nov. 10, 2024 Nov. 09, 2025	Nov. 09, 2025 Nov. 08, 2026
Loop Antenna TESEQ	HLA 6121	64095	Oct. 17, 2024	Oct. 16, 2025
		45745	Sep. 01, 2025	Aug. 31, 2026
Preamplifier EMCI	EMC330N	980783	Jan. 14, 2025	Jan. 13, 2026
Preamplifier EMCI	EMC118A45SE	980810	Dec. 26, 2024 Dec. 24, 2025	Dec. 25, 2025 Dec. 23, 2026
Preamplifier EMCI	EMC184045SE	980787	Jan. 14, 2025	Jan. 13, 2026
RF signal cable EMCI	EMC104-SM-SM-(9000+ 2000+1000)	201230+ 201242+ 210101	Jan. 14, 2025	Jan. 13, 2026
RF signal cable EMCI	EMCCFD400-NM-NM-(9 000+300+500)	201252+ 201250+ 201245	Jan. 14, 2025	Jan. 13, 2026
RF signal cable EMCI	EMC101G-KM-KM-(500 0+3000+2000)	201261+201258+ 201249	Jan. 14, 2025	Jan. 13, 2026
Software BV CPS	ADT_Radiated_V7.6.15. 9.5	NA	NA	NA
Turn Table Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208675	NA	NA
Antenna Tower KaiTuo	NA	NA	NA	NA
Antenna Tower Controller KaiTuo	KT-2000	NA	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Temperature & Humidity Chamber Terchy	MHU-225AU	920842	Jun. 25, 2025	Jun. 24, 2026
Digital Storage Oscilloscope Keysight	DSO-X 6004A	MY55190202	Jun. 17, 2024	Jun. 16, 2026

- Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in WM Chamber 7.
3. Test date: Sep. 10, 2025 ~ Jan. 10, 2026

For Above 40GHz:

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Keysight	N9042B	US60360159	Apr. 16, 2024	Apr. 15, 2026
*OXE89 Horn Antenna (33~55GHz) QuinStar	QWH-QPRR00	QWH-QPRR00-1	Apr. 09, 2024	Apr. 08, 2026
*Conical Horn Antenna (50~75GHz) Keysight	WR15CH-Conical	RCHO15RL-1	Apr. 09, 2024	Apr. 08, 2026
*Conical Horn Antenna (75~110GHz) Keysight	WR10CH-Conical	RCHO10RL-1	Apr. 09, 2024	Apr. 08, 2026
*Conical Horn Antenna (110~170GHz) Keysight	WR6.5CH-Conical	RCHO6RL-1	Apr. 09, 2024	Apr. 08, 2026
*Conical Horn Antenna (140~220GHz) Keysight	WR5.1CH-Conical	RCHO5RL-1	Apr. 09, 2024	Apr. 08, 2026
Extension Module_down converter (50-75GHz) 9VDC supply Keysight	N9029AV15	SAX 381	Apr. 16, 2024	Apr. 15, 2026
Extension Module_down converter (75-110GHz) 9VDC supply Keysight	N9029AV10	SAX 378	Apr. 16, 2024	Apr. 15, 2026
Extension Module_down converter (110-170GHz) 9VDC supply Keysight	N9029AV06	SAX723	Apr. 16, 2024	Apr. 15, 2026
Extension Module_down converter (140-220GHz) 9VDC supply Keysight	N9029AV05	SAX722	Apr. 16, 2024	Apr. 15, 2026
PSG analog signal generator Keysight	E8257D	MY60020399	Jan. 13, 2025	Jan. 12, 2026
*Power Meter VDI (110-325GHz)	PM5B	571V	Apr. 16, 2024	Apr. 15, 2026
*Power Meter Keysight (50-110GHz)	U8489A	US59290810	Mar. 08, 2024	Mar. 07, 2026
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA

- Note: 1. The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in WM Chamber 7.
3. Test date: Sep. 23, 2025

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission 30MHz to 40GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 40GHz

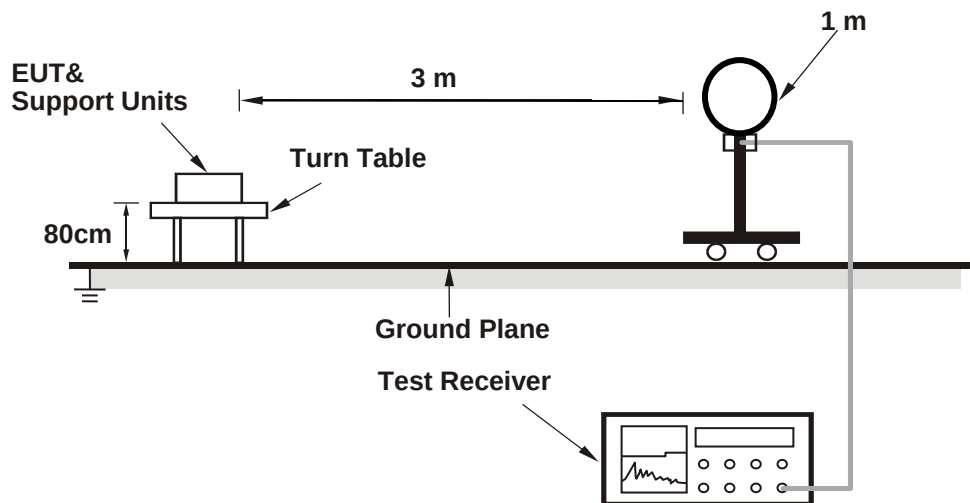
- a. Connect the test antenna covering the appropriate frequency range to a spectrum analyzer via an external mixer to the spectrum analyzer.
- b. Set spectrum analyzer RBW = 1 MHz, VBW = 3 MHz, average detector.
- c. Calculate the distance to the far field boundary and determine the maximum measurement distance.
- d. Perform an exploratory search for emissions and determine the approximate direction at which each observed emission emanates from the EUT.
- e. Exploratory measurements be made at a closer distance than the validated maximum measurement distance.
- f. Perform a final measurement; begin with the test antenna at the approximate position where the maximum level occurred during the exploratory scan.
- g. Slowly scan the test antenna around this position, slowly vary the test antenna polarization by rotating through at least 0° to 180°, and slowly vary the orientation of the test antenna to find the final position, polarization, and orientation at which the maximum level of the emission is observed.
- h. Record the measured reading with the test antenna fixed at this maximized position, polarization, and orientation. Record the measurement distance.
- i. Calculate the maximum field strength of the emission at the measurement distance and the adjusted/corrected power at the output of the test antenna.
- j. Calculate the EIRP from the measured field strength and then convert to the linear.
- k. Calculate the power density at the distance specified by the limit from the field strength at the distance specified by the limit.
- l. Repeat the preceding sequence for every emission observed in the frequency band under investigation.

4.1.4 Deviation from Test Standard

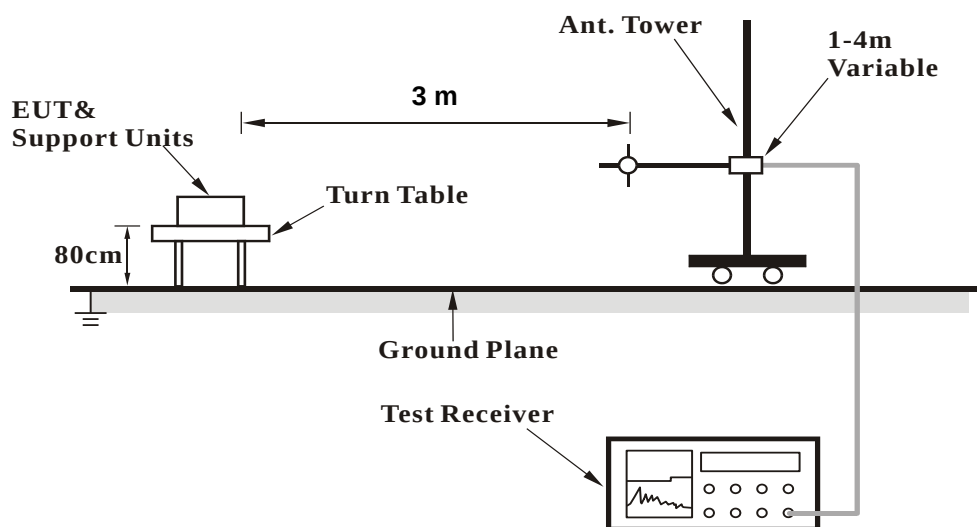
No deviation.

4.1.5 Test Setup

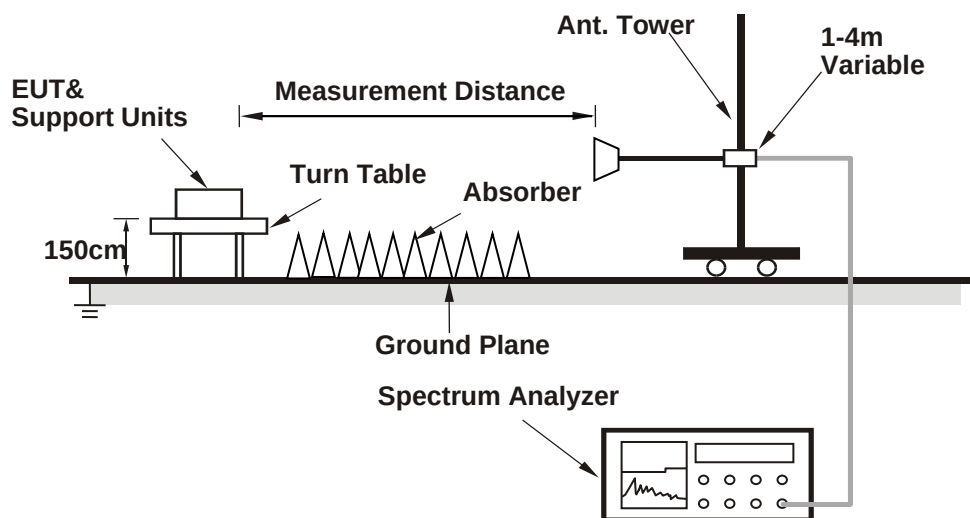
For Radiated emission below 30MHz



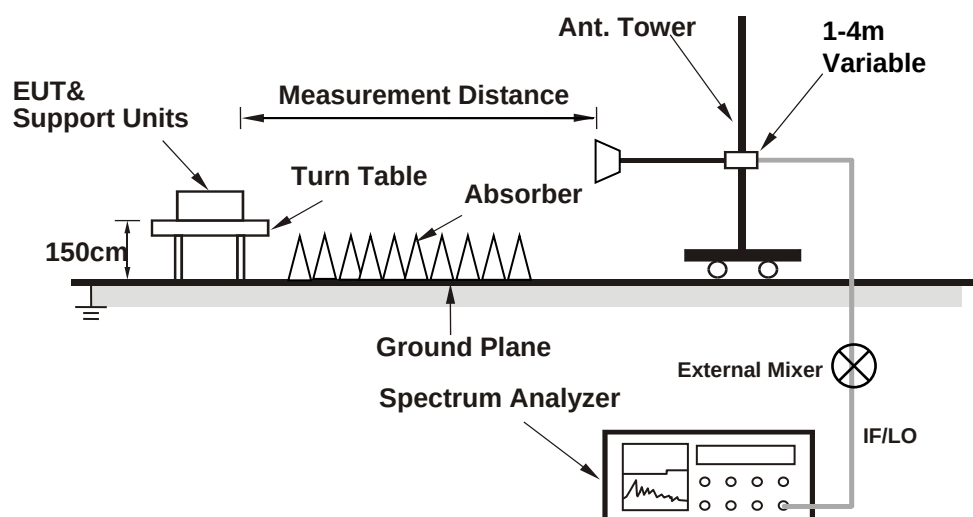
For Radiated emission 30MHz to 1GHz



For Radiated emission 1GHz to 40GHz



For Radiated emission above 40GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- The EUT is connected to the simulator at frequency channel individually.

4.1.7 Test Results

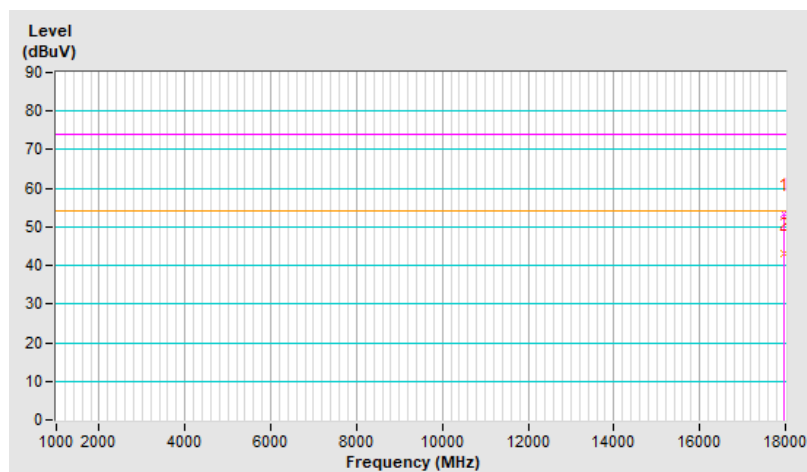
Above 1GHz Data:

Channel	CH 1 : 60.50GHz		
Frequency Range	1GHz ~ 18GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	17975.00	53.4 PK	74.0	-20.6	1.77 H	351	44.0	9.4
2	17975.00	43.0 AV	54.0	-11.0	1.77 H	351	33.6	9.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

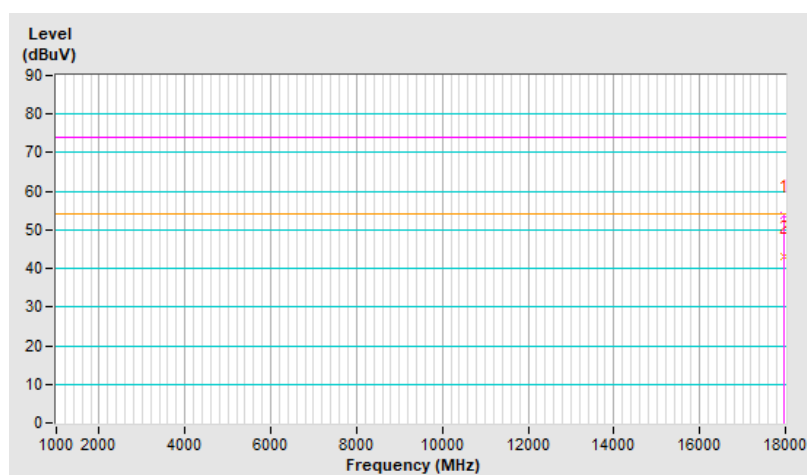


Channel	CH 1 : 60.50GHz		
Frequency Range	1GHz ~ 18GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	17975.00	53.6 PK	74.0	-20.4	1.77 V	351	44.2	9.4
2	17975.00	43.2 AV	54.0	-10.8	1.77 V	351	33.8	9.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

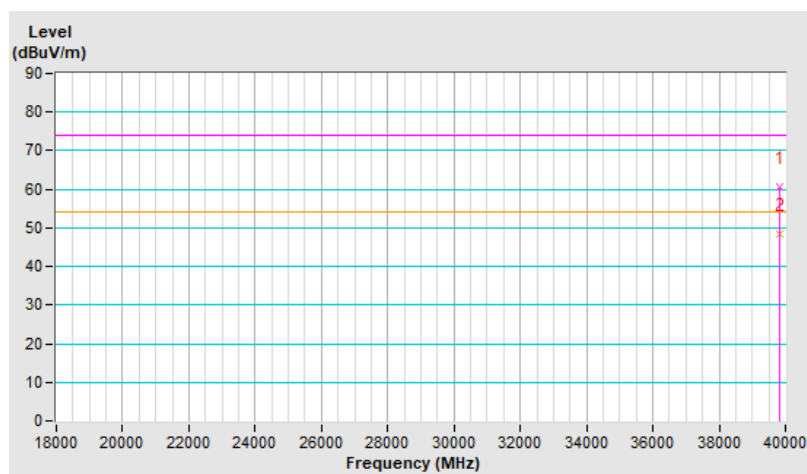


Channel	CH 1 : 60.50GHz		
Frequency Range	18GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	39837.00	60.6 PK	74.0	-13.4	1.47 H	166	58.3	2.3
2	39837.00	48.5 AV	54.0	-5.5	1.47 H	166	46.2	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

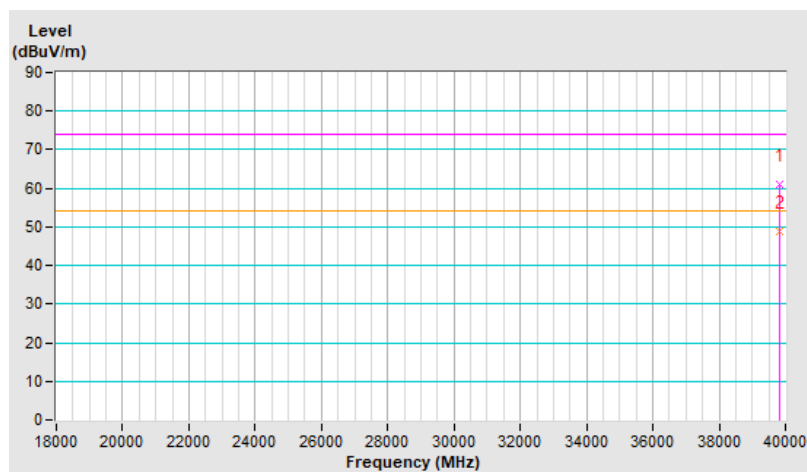


Channel	CH 1 : 60.50GHz		
Frequency Range	18GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	39837.00	60.9 PK	74.0	-13.1	1.31 V	225	58.6	2.3
2	39837.00	48.7 AV	54.0	-5.3	1.31 V	225	46.4	2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



Channel	CH 1 : 60.50GHz		
Frequency Range	40GHz ~ 200GHz	Detector Function	Average (AV)

Antenna Polarity: Horizontal								
No.	Frequency (GHz)	Power (dBm)	Gain of test Antenna (dBi)	EIRP Level (dBm)	Power Density (pW/cm ²)	Power Density Limit (pW/cm ²)	Margin (pW/cm ²)	Pass/Fail
1	44.91	-108.70	22.50	-65.72	0.00	90.00	-90.00	Pass
2	50.14	-90.72	21.50	-45.78	0.02	90.00	-89.98	Pass
3	68.47	-94.60	21.50	-46.95	0.02	90.00	-89.98	Pass
4	103.30	-106.98	21.60	-55.86	0.00	90.00	-90.00	Pass
5	169.85	-106.17	22.00	-51.13	0.01	90.00	-89.99	Pass
6	170.15	-90.07	21.30	-34.32	0.33	90.00	-89.67	Pass
Antenna Polarity: Vertical								
No.	Frequency (GHz)	Power (dBm)	Gain of test Antenna (dBi)	EIRP Level (dBm)	Power Density (pW/cm ²)	Power Density Limit (pW/cm ²)	Margin (pW/cm ²)	Pass/Fail
1	45.09	-108.53	22.50	-65.51	0.00	90.00	-90.00	Pass
2	50.03	-90.56	21.50	-45.64	0.02	90.00	-89.98	Pass
3	68.30	-94.43	21.50	-46.80	0.02	90.00	-89.98	Pass
4	103.04	-106.86	21.60	-55.76	0.00	90.00	-90.00	Pass
5	169.98	-106.08	22.00	-51.03	0.01	90.00	-89.99	Pass
6	170.06	-89.82	21.30	-34.07	0.35	90.00	-89.65	Pass

Remarks:

Follow ANSI 63.10-2020 section 9.2.2 Equations to calculate EIRP

$$\text{EIRP Level (dBm/MHz)} = 21.98 - 20 \log(\lambda) + 20 \log(d_{\text{Meas}}) + P - G$$

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

Measurements made at 1 meter distance.

2. Power density formula as follows

Follow ANSI 63.10-2020 section 9.2.3 Equations to calculate power density

$$PD = \text{EIRP}_{\text{Linear}} / 4 \pi d^2$$

PD is the power density at the distance specified by the limit, in W/m²

$\text{EIRP}_{\text{Linear}}$ is the equivalent isotropically radiated power, in watts

d is the 3m distance.

3. The far-field boundary is given in ANSI 63.10 as:

$$R_{\text{far field}} = (2 * L^2) / \lambda$$

L is the Largest Antenna Dimension of measurement antenna, including the reflector

λ is the wavelength

Frequency (GHz)	L (m)	Lambda (m)	R (Far Field) (m)
40	0.030	0.0075	0.240
50	0.030	0.0060	0.300

Frequency (GHz)	L (m)	Lambda (m)	R (Far Field) (m)
50	0.025	0.0060	0.208
75	0.025	0.0040	0.313

Frequency (GHz)	L (m)	Lambda (m)	R (Far Field) (m)
75	0.018	0.0040	0.162
110	0.018	0.0027	0.238

Frequency (GHz)	L (m)	Lambda (m)	R (Far Field) (m)
110	0.012	0.0027	0.106
170	0.012	0.0018	0.163

Frequency (GHz)	L (m)	Lambda (m)	R (Far Field) (m)
170	0.008	0.0018	0.073
260	0.008	0.0012	0.111

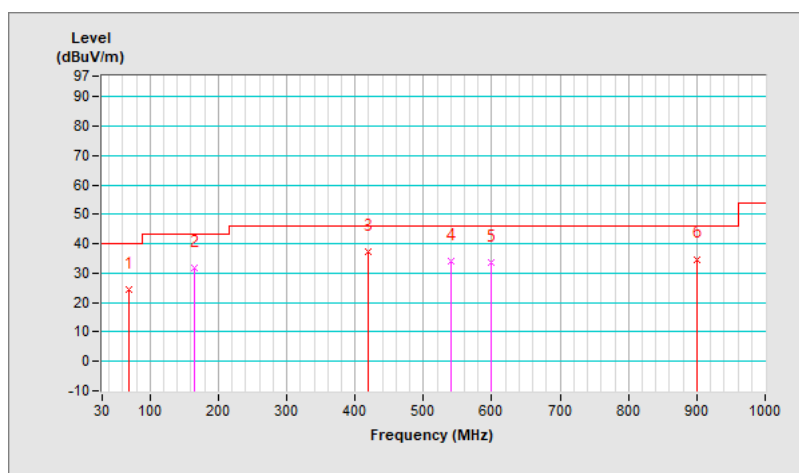
Below 1GHz Data:

Channel	CH 1 : 60.50GHz		
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	69.77	24.3 QP	40.0	-15.7	2.00 H	92	39.5	-15.2
2	164.83	31.9 QP	43.5	-11.6	1.51 H	210	45.0	-13.1
3	419.94	37.4 QP	46.0	-8.6	1.00 H	180	46.7	-9.3
4	540.22	34.3 QP	46.0	-11.7	1.51 H	143	41.1	-6.8
5	598.42	33.8 QP	46.0	-12.2	1.51 H	289	38.8	-5.0
6	900.09	34.8 QP	46.0	-11.2	1.00 H	12	35.4	-0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

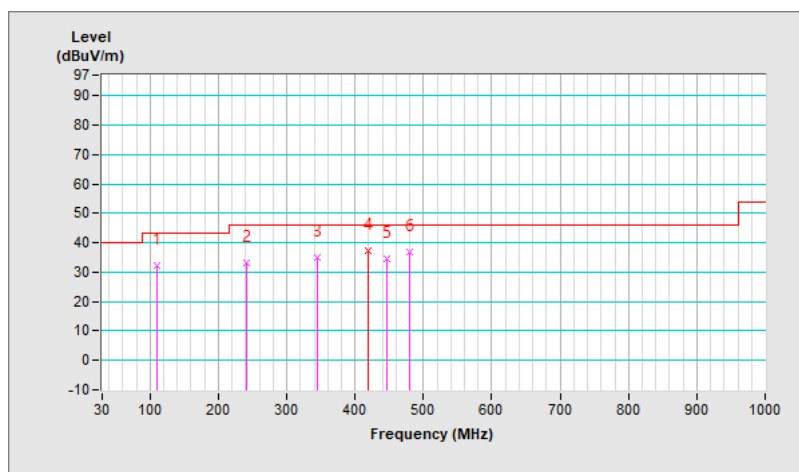


Channel	CH 1 : 60.50GHz		
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	110.51	32.1 QP	43.5	-11.4	2.00 V	177	48.1	-16.0
2	240.49	33.1 QP	46.0	-12.9	1.01 V	120	47.4	-14.3
3	345.25	35.0 QP	46.0	-11.0	2.00 V	344	46.2	-11.2
4	419.94	37.4 QP	46.0	-8.6	2.00 V	296	46.7	-9.3
5	447.10	34.5 QP	46.0	-11.5	1.01 V	148	42.8	-8.3
6	480.08	37.0 QP	46.0	-9.0	1.51 V	153	44.8	-7.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	Nov. 28, 2024	Nov. 27, 2025
	E1-011280	05	Nov. 28, 2024	Nov. 27, 2025
	E1-011311	09	Nov. 28, 2024	Nov. 27, 2025
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	Nov. 05, 2024	Nov. 04, 2025
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	Apr. 27, 2025	Apr. 26, 2026
EMI Test Receiver R&S	ESCI	100613	Nov. 25, 2024	Nov. 24, 2025
LISN R&S	ENV216	101826	Mar. 24, 2025	Mar. 23, 2026
	ESH3-Z5	100311	Aug. 28, 2025	Aug. 27, 2026
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	Jan. 05, 2025	Jan. 04, 2026
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HY - Conduction 1.

3. The VCCI Site Registration No. is C-2040.

4. Test date: Oct. 01, 2025

4.2.3 Test Procedures

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

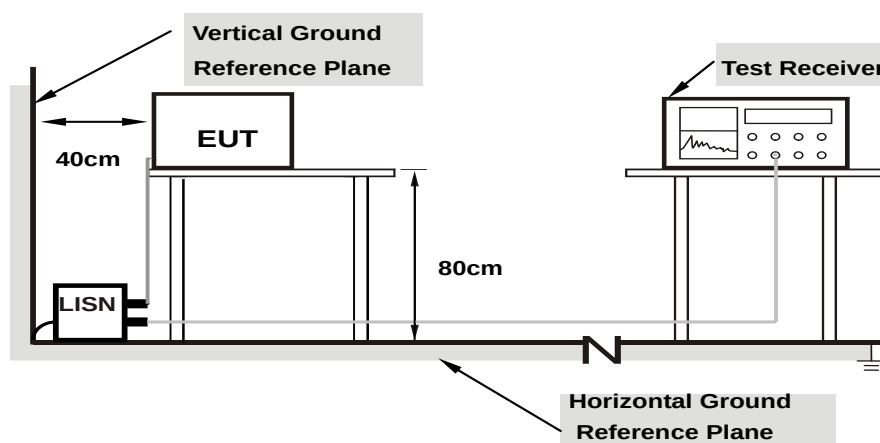
Note:

- The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

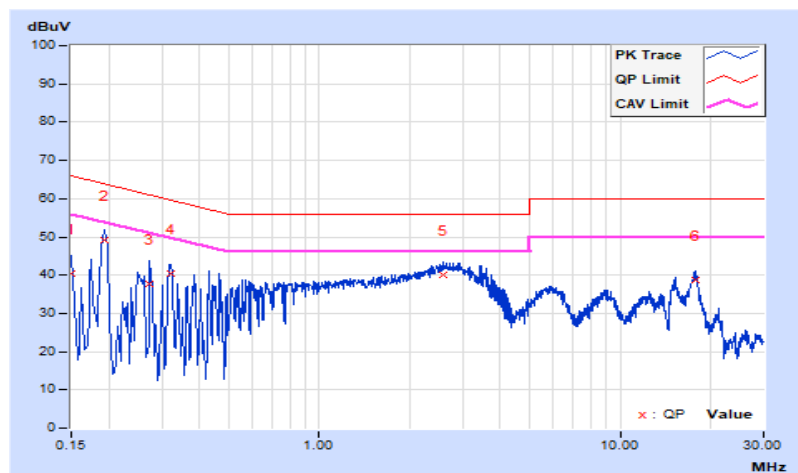
4.2.7 Test Results

RF Mode	TX	Channel	CH 1 : 60.50GHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.68	30.83	19.13	40.51	28.81	66.00	56.00	-25.49	-27.19
2	0.19400	9.71	39.32	24.19	49.03	33.90	63.86	53.86	-14.83	-19.96
3	0.27400	9.71	28.02	17.46	37.73	27.17	61.00	51.00	-23.27	-23.83
4	0.31950	9.72	30.72	15.48	40.44	25.20	59.72	49.72	-19.28	-24.52
5	2.58200	9.81	30.19	19.92	40.00	29.73	56.00	46.00	-16.00	-16.27
6	17.87800	10.05	28.70	20.25	38.75	30.30	60.00	50.00	-21.25	-19.70

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

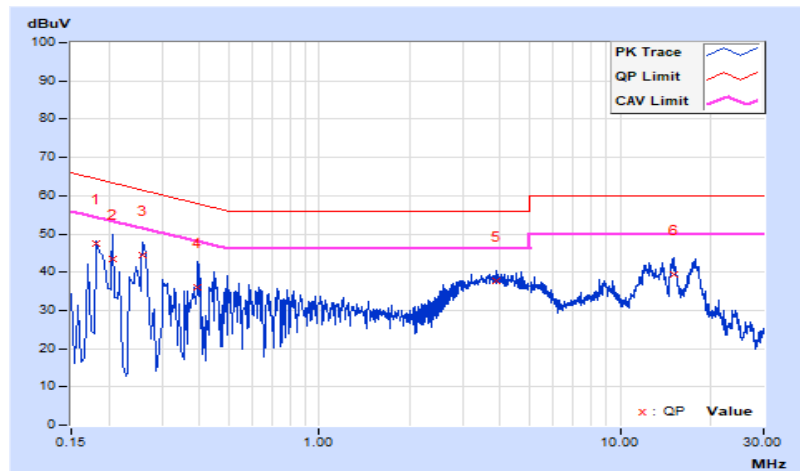


RF Mode	TX	Channel	CH 1 : 60.50GHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18200	9.66	37.98	23.86	47.64	33.52	64.39	54.39	-16.75	-20.87
2	0.20600	9.66	33.68	14.15	43.34	23.81	63.37	53.37	-20.03	-29.56
3	0.25800	9.68	34.93	20.70	44.61	30.38	61.50	51.50	-16.89	-21.12
4	0.39400	9.73	26.28	10.81	36.01	20.54	57.98	47.98	-21.97	-27.44
5	3.88200	9.86	27.94	15.75	37.80	25.61	56.00	46.00	-18.20	-20.39
6	15.08200	10.14	29.22	19.63	39.36	29.77	60.00	50.00	-20.64	-20.23

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

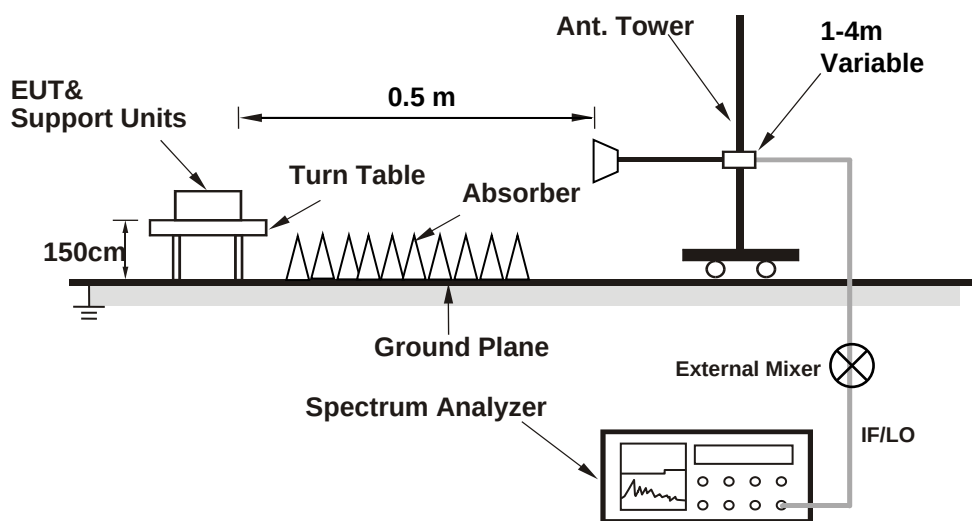


4.3 10dB Bandwidth Measurement

4.3.1 Limits of 10dB Bandwidth Measurement

For pulsed field disturbance sensors/radars operating in the 57-64 GHz band that have a maximum pulse duration of 6 ns, the average EIRP shall not exceed 13 dBm and the transmit duty cycle shall not exceed 10% during any 0.3 μ s time window. In addition, the average integrated EIRP within the frequency band 61.5-64.0 GHz shall not exceed 5 dBm in any 0.3 μ s time window. Peak emissions shall not exceed 20 dB above the maximum permitted average emission limit applicable to the equipment under test. The radar bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna.

4.3.2 Test Setup



4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 22, 2025	Dec. 21, 2026
Spectrum Analyzer (50~110GHz) Keysight	N9030A	MY55330160	Jan. 16, 2025	Jan. 15, 2026
Conical Horn Antenna (50~75GHz) Keysight	WR15CH-Conical	RCHO15RL-1	Apr. 09, 2024	Apr. 08, 2026
DC Power Supply TOPWARD	6306A	727263	NA	NA
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 23, 2025	Dec. 22, 2026

Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Test date: Jan. 10, 2026

4.3.4 Test Procedure

- a. Set resolution bandwidth (RBW) and Set the video bandwidth (VBW) = 50MHz, Detector = Peak.
- b. Trace mode = max hold.
- c. Sweep = auto couple.
- d. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 10 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

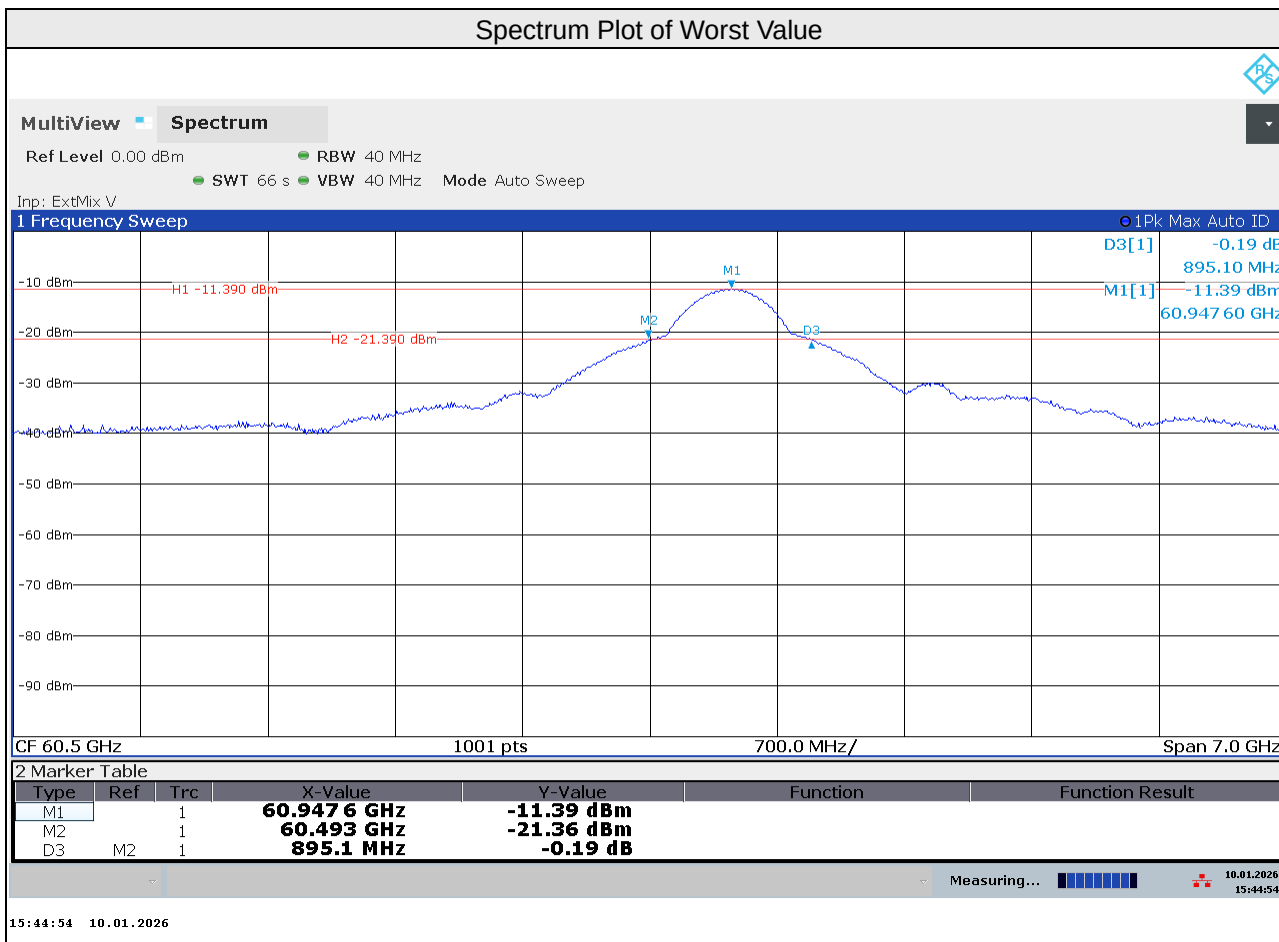
No deviation.

4.3.6 EUT Operating Conditions

Same as 4.1.6.

4.3.7 Test Result

Channel	Frequency (GHz)	10dB Bandwidth (GHz)
1	60.50	0.8951

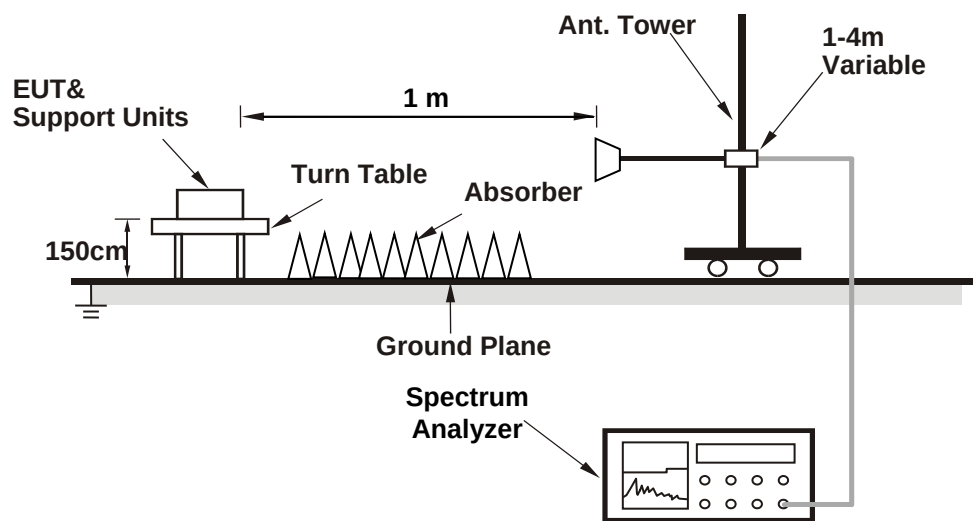


4.4 Output Power Measurement

4.4.1 Limits of Output Power Measurement

For pulsed field disturbance sensors/radars operating in the 57-64 GHz band that have a maximum pulse duration of 6 ns, the average EIRP shall not exceed 13 dBm and the transmit duty cycle shall not exceed 10% during any 0.3 μ s time window. In addition, the average integrated EIRP within the frequency band 61.5-64.0 GHz shall not exceed 5 dBm in any 0.3 μ s time window. Peak emissions shall not exceed 20 dB above the maximum permitted average emission limit applicable to the equipment under test. The radar bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna.

4.4.2 Test Setup



4.4.3 Test Instruments

Same as Item 4.1.2.

4.4.4 Test Procedures

Method of measurement: Refer as ANSI C63.10-2020 clause 9.8 and Annex C.

4.4.5 Deviation from Test Standard

No deviation.

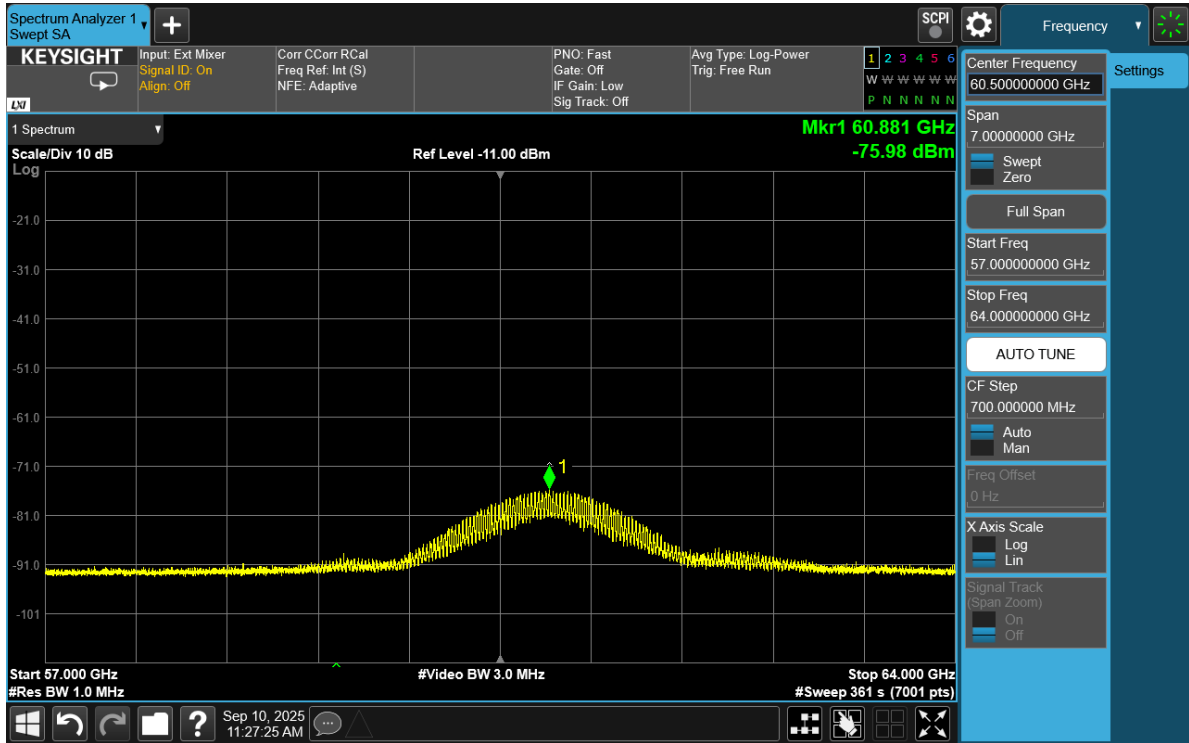
4.4.6 EUT Operating Conditions

Same as 4.1.6.

4.4.7 Test Results

Peak Power Measurement

Non-Desensitization Factor



Spectrum analyzer

Frequency (F) (MHz)	Ant Gain (dBi)	VDI Conversion loss	D (m)	Desensitization Factor (dB)	Free Space Loss (dB)	Ref Lvl Offset (dB)
60500	21.40	13.42	1	33.75	68.08	93.85

Note 1: Ref Lvl Offset = Free Space loss - Ant. Gain + Cable Loss + Desensitization Factor

Note 2: The Free-space propagation path loss is determined from Equation (G.9) of Annex G in ANSI C63.10
 $= 20\log(F) + 20\log(d) - 27.5$

Note 3: The far-field boundary is given in ANSI 63.10 as:

R far field = $(2 * L^2) / \lambda$

L is the Largest Antenna Dimension of either the EUT antenna or measurement antenna, including the reflector

λ is the wavelength

Frequency (GHz)	L (m)	Lambda (m)	R (Far Field)
60.5	0.017720045	0.00496	0.127

The Desensitization Factor:

Start Frequency (GHz)	Stop Frequency (GHz)	Chirp Width (MHz)	Chirp Time (ns)	RBW (MHz)	Desensitization Factor (dB)
57	64	7001	0.74	1	-33.75

$$\alpha_p(dB) = 20\log(\tau \times B_{imp})$$

Test Result

Max Peak EIRP (dBm)	Peak EIRP Limit (dBm)	Result
17.87	33	Pass

Max Peak EIRP = Non-Desensitization Factor + Ref Lvl Offset

Measurement	EUT	Limit
Averaged integrated E.I.R.P withins 61.5-64 GHz within 0.3us	-7.67dBm	5 dBm
Average EIRP	1.87dBm	13dBm

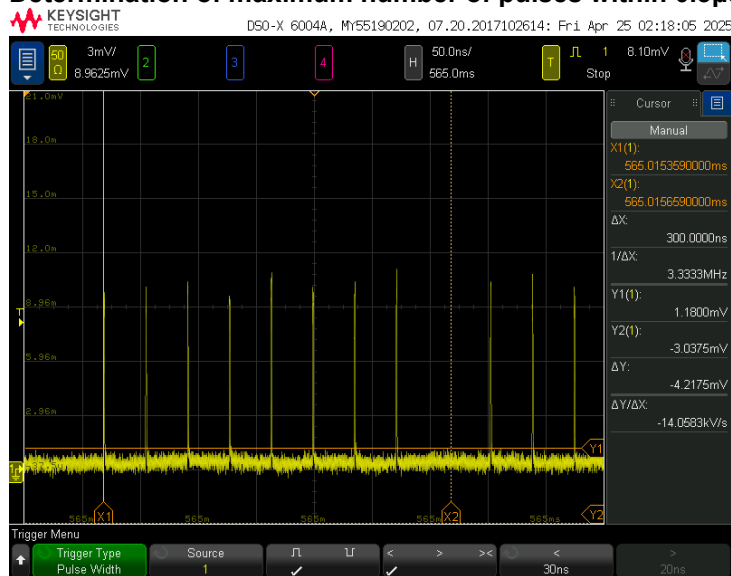
The Maximum Value

Measurement	EUT	Limit
Maximum Pulse Duration	2.05ns	6 ns
Duty factor within 0.3 μ s time window	5.5%	10%

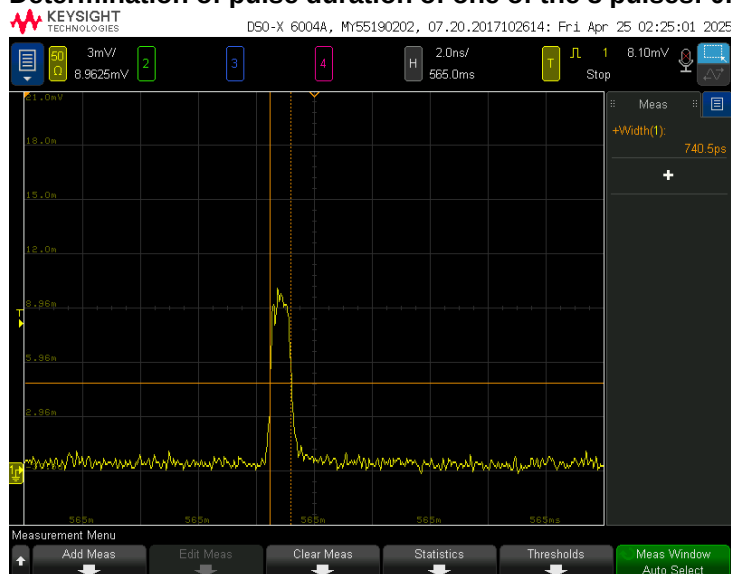
Determination of the shortest pulse duration:

Measurement	EUT	Limit
Maximum Pulse Duration	0.74ns	6 ns
Duty factor within 0.3 μ s time window	2%	10%

Determination of maximum number of pulses within 0.3 μ s: Worst case of 8 pulses



Determination of pulse duration of one of the 8 pulses: 0.74ns



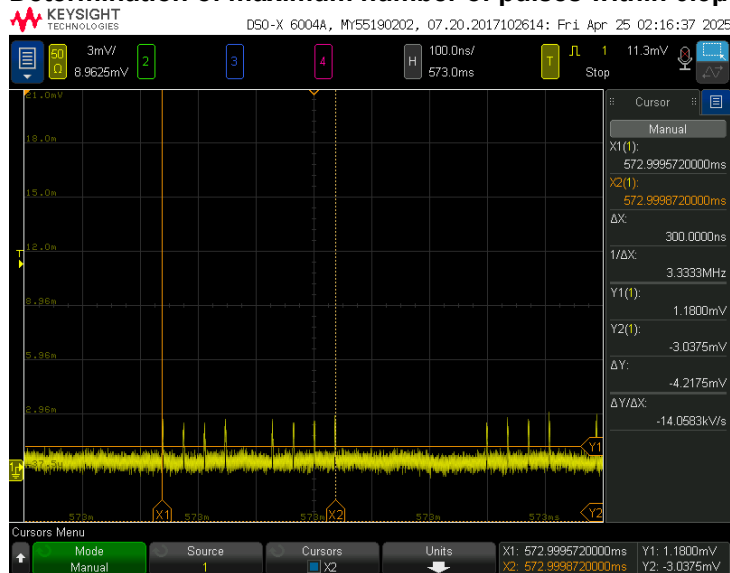
Result:

Duty factor within 300 ns(0.3 μ s): $8 \times 0.74\text{ns} / 300\text{ns} = 2\%$

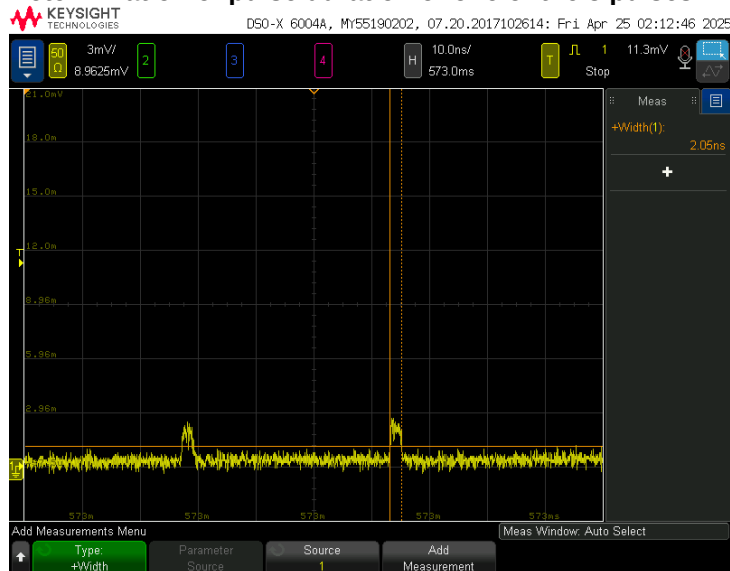
Determination of the longest pulse duration:

Measurement	EUT	Limit
Maximum Pulse Duration	2.05ns	6 ns
Duty factor within 0.3 μ s time window	5.5%	10%

Determination of maximum number of pulses within 0.3 μ s Worst case of 8 pulses



Determination of pulse duration of one of the 8 pulses: 2.05 ns



Result:

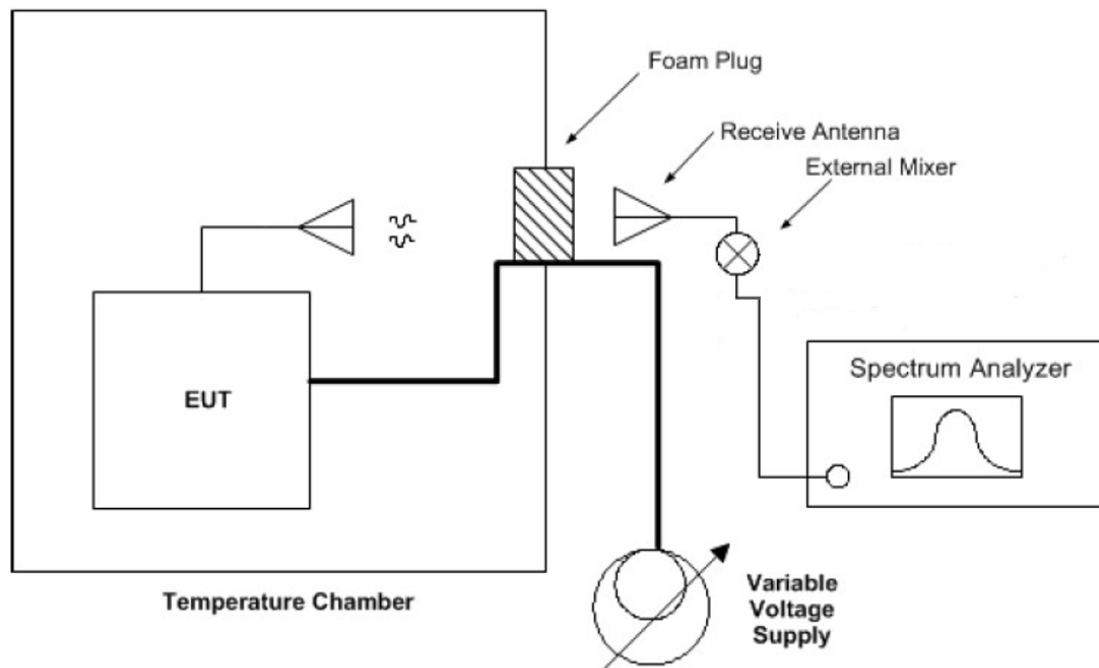
Duty factor within 300 ns(0.3 μ s): $8 \times 2.05 \text{ ns} / 300 \text{ ns} = 5.5\%$

4.5 Frequency Stability Measurement

4.5.1 Limits of Frequency Stability Measurement

15.255(f) Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation.

4.5.2 Test Setup



4.5.3 Test Instruments

Same as Item 4.1.2.

4.5.4 Test Procedure

- Arrange EUT and test equipment as above setup configuration.
- With the EUT at ambient temperature and voltage source set to the EUT nominal operating voltage (100%), record the spectrum mask of the EUT emission on the spectrum analyzer.
- Vary EUT power supply between 85% and 115% of nominal, and record the frequency excursion of the EUT emission mask.
- Set the power supply to 100% nominal setting, and raise EUT operating temperature to 50 °C.
- Record the frequency excursion of the EUT emission mask.
- Repeat step d) at each 10 °C increment down to -20 °C

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as 4.1.6.

4.5.7 Test Results

Frequency Stability Versus Temperature									
Operating Frequency: 60500MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
85	5	60499.9131	Pass	60499.8998	Pass	60499.9237	Pass	60499.9125	Pass
80	5	60499.7539	Pass	60499.7659	Pass	60499.7459	Pass	60499.7455	Pass
70	5	60500.3091	Pass	60500.2803	Pass	60500.3111	Pass	60500.3257	Pass
60	5	60499.8886	Pass	60499.8483	Pass	60499.8924	Pass	60499.8367	Pass
50	5	60500.0250	Pass	60500.0220	Pass	60500.0149	Pass	60500.0362	Pass
40	5	60499.9987	Pass	60499.9636	Pass	60499.9922	Pass	60499.9991	Pass
30	5	60500.1713	Pass	60500.1750	Pass	60500.1922	Pass	60500.2172	Pass
20	5	60500.1759	Pass	60500.1873	Pass	60500.1813	Pass	60500.2155	Pass
10	5	60500.2791	Pass	60500.3025	Pass	60500.2644	Pass	60500.3183	Pass
0	5	60500.1644	Pass	60500.1749	Pass	60500.1756	Pass	60500.1736	Pass
-10	5	60500.0755	Pass	60500.0674	Pass	60500.0758	Pass	60500.1110	Pass
-20	5	60499.7919	Pass	60499.8106	Pass	60499.8149	Pass	60499.8181	Pass
-30	5	60499.9941	Pass	60499.9513	Pass	60499.9427	Pass	60499.9847	Pass
-40	5	60500.1286	Pass	60500.092	Pass	60500.1252	Pass	60500.1305	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 60500MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	5.75	60500.0468	Pass	60500.0712	Pass	60500.0869	Pass	60500.0720	Pass
	5	60500.1759	Pass	60500.1873	Pass	60500.1813	Pass	60500.2155	Pass
	4.25	60500.1731	Pass	60500.1386	Pass	60500.1371	Pass	60500.1698	Pass

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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