

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description** Industrial radio remote control systems

**Applicant:** ADVANCED RADIOTECH CORPORATION  
No. 3, South 1st Road, Chien Chen District, Kaohsiung City,  
Taiwan

**Manufacturer:** ADVANCED RADIOTECH CORPORATION  
No. 3, South 1st Road, Chien Chen District, Kaohsiung City,  
Taiwan

**Product Name:** Industrial radio remote control systems

**Brand Name:** ARC

**Model No.:** FLEX 6EPV

**Family Model No.:** FLEX 4EPV

**Report Number:** TERF2410003255E2

**FCC ID** R4UARCFLEX46EPV

**Date of EUT Received:** N/A, the test results are fully leveraged from test report number  
TERF2410003256E2, for more details please refer to section 2  
in this report.

**Date of Test:** N/A, the test results are fully leveraged from test report number  
TERF2410003256E2, for more details please refer to section 2  
in this report.

**Issue Date:** September 19, 2025

**Approved By**

**Arno Hsieh**

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.231.

The results of this report relate only to the sample identified in this report.

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f (886-2) 2298-0488

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2410003255E2	00	Original	September 3, 2025	Karen Huang	
TERF2410003255E2	01	Update section 6.1 and 6.4	September 19, 2025	Karen Huang	*

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.  
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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## 1 GENERAL INFORMATION

### 1.1 Product Description

EUT Description	Industrial radio remote control systems
Brand Name:	ARC
Model No.:	FLEX 6EPV
Family Model No.:	FLEX 4EPV
Model Difference:	Difference in exterior and number of buttons
Hardware Version:	1
Firmware Version:	1
EUT Series No.:	000001
Power Supply:	3 Vdc
Test Software (Name/Version)	Default (Push button)

### 1.2 RF specification

Radio Technology:	Short Range Radio
Operating Frequency	433.05MHz ~ 439.95MHz
Transmit Power	≤ 94.04 dBuV/m Max.
Modulation Technique	GFSK
Number of Channels	139 Channel
Channel Spacing	50 kHz

### 1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB Antenna	433	-0.68

**Note:**

1. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.
2. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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## 1.4 Operating Frequencies

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
01	433.050	36	434.800	71	436.550	106	438.300
02	433.100	37	434.850	72	436.600	107	438.350
03	433.150	38	434.900	73	436.650	108	438.400
04	433.200	39	434.950	74	436.700	109	438.450
05	433.250	40	435.000	75	436.750	110	438.500
06	433.300	41	435.050	76	436.800	111	438.550
07	433.350	42	435.100	77	436.850	112	438.600
08	433.400	43	435.150	78	436.900	113	438.650
09	433.450	44	435.200	79	436.950	114	438.700
10	433.500	45	435.250	80	437.000	115	438.750
11	433.550	46	435.300	81	437.050	116	438.800
12	433.600	47	435.350	82	437.100	117	438.850
13	433.650	48	435.400	83	437.150	118	438.900
14	433.700	49	435.450	84	437.200	119	438.950
15	433.750	50	435.500	85	437.250	120	439.000
16	433.800	51	435.550	86	437.300	121	439.050
17	433.850	52	435.600	87	437.350	122	439.100
18	433.900	53	435.650	88	437.400	123	439.150
19	433.950	54	435.700	89	437.450	124	439.200
20	434.000	55	435.750	90	437.500	125	439.250
21	434.050	56	435.800	91	437.550	126	439.300
22	434.100	57	435.850	92	437.600	127	439.350
23	434.150	58	435.900	93	437.650	128	439.400
24	434.200	59	435.950	94	437.700	129	439.450
25	434.250	60	436.000	95	437.750	130	439.500
26	434.300	61	436.050	96	437.800	131	439.550
27	434.350	62	436.100	97	437.850	132	439.600
28	434.400	63	436.150	98	437.900	133	439.650
29	434.450	64	436.200	99	437.950	134	439.700
30	434.500	65	436.250	100	438.000	135	439.750
31	434.550	66	436.300	101	438.050	136	439.800
32	434.600	67	436.350	102	438.100	137	439.850
33	434.650	68	436.400	103	438.150	138	439.900
34	434.700	69	436.450	104	438.200	139	439.950
35	434.750	70	436.500	105	438.250		

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## 1.5 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

CONDUCTED TEST			
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)	MODULATION
SRD	433.05 to 439.95	433.05,439.95	GFSK
TRANSMIT RADIATED EMISSION TEST			
MODE	FREQUENCY BAND (MHz)	TEST FREQUENCY (MHz)	MODULATION
SRD	433.05 to 439.95	433.05,439.95	GFSK

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## 2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207	AC Power Line Conducted Emission	Not Applicable	
§15.231(e)	Radiated Emission	Compliant	
§15.231(c)	Emission Bandwidth	Compliant	
§15.35 (c)	Duty Cycle Test ( Determining average factor from a complete pulse train)	Compliant	
§15.231(a)(1)	Transmission Ceased Time	Compliant	
§15.203	Antenna Requirement	Compliant	
§15.205	Restricted Band	Compliant	

### Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2410003256E2.

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## 2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.231  
ANSI C63.10:2020.

## 2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.1	dB	30MHz - 1000MHz
	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.1	dB	30MHz - 1000MHz
	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.71	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.84	dB	140GHz-220GHz

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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### 2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
<b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

Temperature:	21.5~22.1	°C	Relative Humidity:	56~61	%
Test site	Conducted C		Test Start:	01/10/2025	
Test Engineer:	Joey You		Test Done:	08/29/2025	

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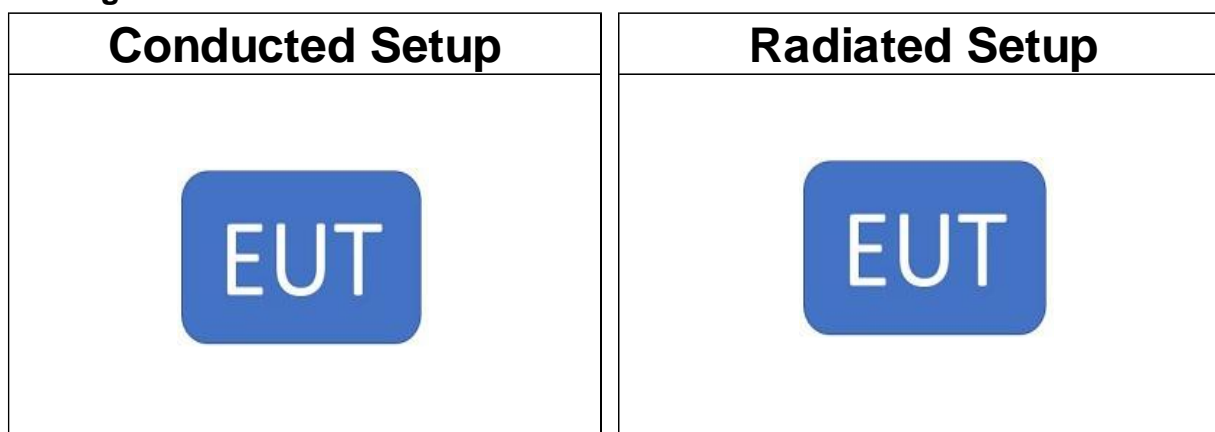
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### 3 CONTROL UNIT(S) AND PERIPHERAL(S)

#### 3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme. The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### 3.2 Diagrams



#### 3.3 List

N/A

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## 4 TEST INSTRUMENT

### 4.1 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/03/2025	06/02/2026
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R

### 4.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2025	03/01/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Attenuator	Woken	WATT-218FS-10	RF11	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/06/2024	11/05/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15	W13.01+150813+2310002+15	11/14/2024	11/13/2025
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025
Notch Filter	Titan Microwave	T04N43043660S01	RF209	11/14/2024	11/13/2025
Notch Filter	Titan Microwave	T04N800100050S01	RF212	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC330	980091	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

**NOTE:** N.C.R refers to Not Calibrated Required.

### 4.3 Emission from AC power line

N/A

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## 5 REGULATORY REQUIREMENTS

### 5.1 Emission Bandwidth

According to 15.231 (c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

### 5.2 Duty Cycle

According to 15.35(c), 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. The exact method of calculating the average field strength shall be submitted with any application for certification.

### 5.3 Radiated Emission

According to 15.231(b), the field strength of emissions from Intentional Radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)
40.66 - 40.70	67.04	2,250	47	225
70 - 130	61.94	1,250	41.9	125
130 - 174	* 61.94 - 71.48	* 1,250 - 3,750	* 41.9 - 51.48	* 125 to 375
174 - 260**	71.48	3,750	51.48	375
260 - 470**	* 71.48 - 81.94	* 3,750 - 12,500	* 51.48 - 61.94	* 375 to 1250
above 470	81.94	12,500	61.94	1250

\* Linear interpolation with frequency, f, in MHz:

For 130-174 MHz: Field Strength ( $\mu\text{V/m}$ ) =  $(56.81818 \times f) - 6136.3636$

For 260-470 MHz: Field Strength ( $\mu\text{V/m}$ ) =  $(41.6667 \times f) - 7083.3333$

\*\* Frequency bands 225-328.6 MHz and 335.4-399.9 MHz are designated for the exclusive use of the Government of Canada. Manufacturers should be aware of possible harmful interference and degradation of their licence-exempt radio equipment in these frequency bands.

#### 5.3.1 Remarks:

1. Emission level in dBuV/m =  $20 \log (\mu\text{V/m})$
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of §15.205, then the general radiated emission limits in § 15.209 apply.
5. For the band 130-174MHz,  $\mu\text{V/m}$  at 3meters =  $56.81818(F) - 6136.3636$ ;  
For the band 260-470MHz  $\mu\text{V/m}$  at 3meters =  $41.6667(F) - 7083.3333$ ;  
Where F is the frequency in MHz.

Fundamental Frequency (MHz)	$41.6667*(F) - 7083.3333$ ( $\mu\text{V/m}$ )	Limit (dBuV/m)
433.05	10960.43114	80.80
439.95	11247.93137	81.02

#### 5.4 Transmission Ceased Time

15.231 (a) (1) manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

15.231 (a) (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

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## 5.5 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

## 5.6 Antenna Requirement

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.

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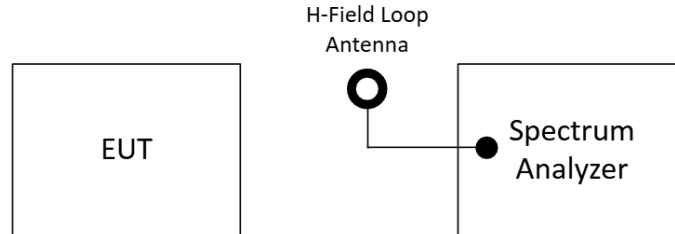
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## 6 TEST CONFIGURATION

### 6.1 Emission Bandwidth



1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as transmitting mode.
3. Set SPA Center Frequency = fundamental frequency, RBW=1% to 5% OBW and without going below 1kHz, VBW $\geq$ 3 x RBW, Span = 2 to 5 times OBW.
4. Set SPA -20dB Occupied bandwidth.
5. Set SPA 99% Occupied bandwidth.

### 6.2 Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep=100ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

### 6.3 Radiated Emission

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

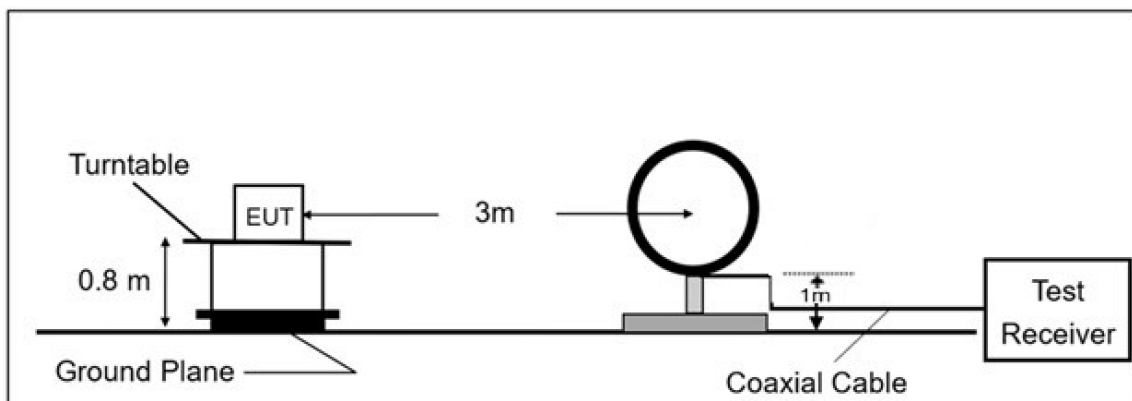
Comparing data of both open-field test site and semi-Anechoic chamber, the result came out very similar.

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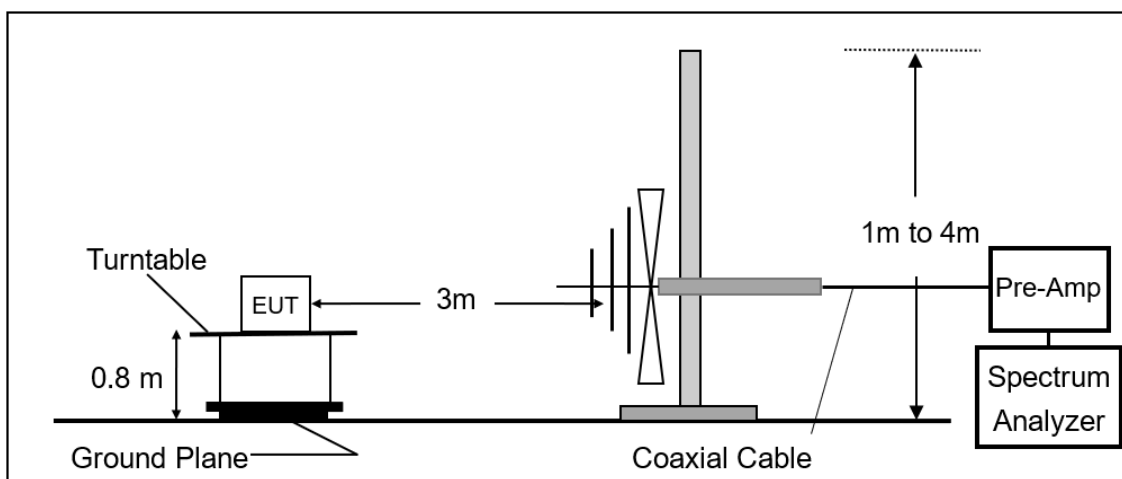
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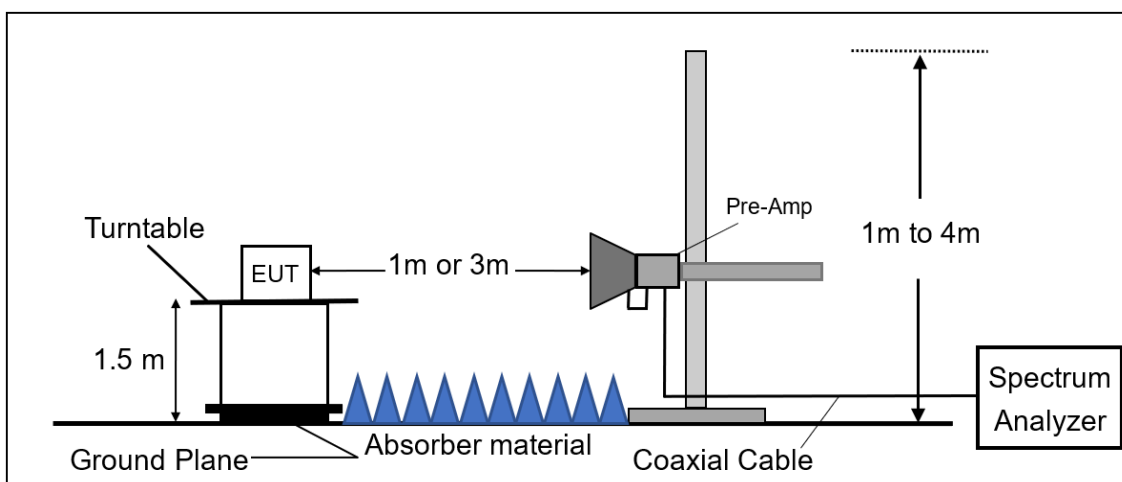
## Radiated Emission Test Set-Up, Frequency Below 30MHz.



## Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



## Radiated Emission Test Set-Up, Frequency Above 1GHz.



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1. The testing follows the Measurement Procedure of ANSI C63.10.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor  $20 \log (T_{on}/100ms)$ .
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

**Note:** The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits per 15.31(o), and hence not reported.

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### 6.3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Average value(dBμV/m)=Peak Actual FS(dBμV/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) =  $20 \log (T_{on}/100 \text{ ms})$

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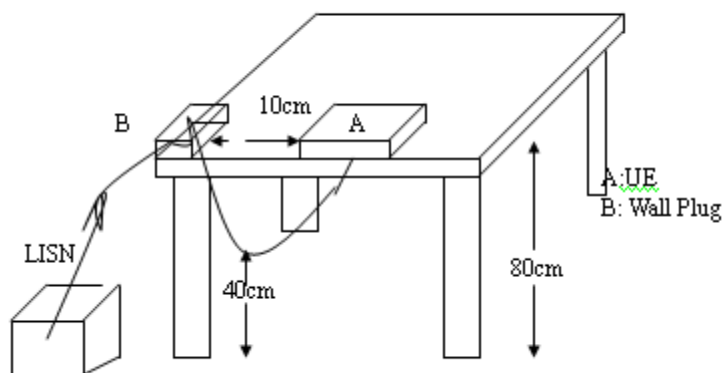
### 6.3.2 Auxiliary Procedure (Setting on Spectrum to capture the reading of emission level):

- (1) Span = wide enough to fully capture the emission being measured
  - (2) RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz, VBW  $\geq$  RBW,  
Sweep = auto, Detector function = peak, Trace = max hold
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c)  
Duty Cycle = On time/100 milliseconds  
On time =  $N1 \cdot L1 + N2 \cdot L2 + \dots + N(n-1) \cdot L(n-1) + N(n) \cdot L(n)$   
Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.  
Average Emission Level = Peak Emission Level +  $20 \cdot \log$  (duty Cycle)
- Test was measured starting from 9kHz to 10<sup>th</sup> harmonic of the fundamental frequency, and data containing the worst result above 30MHz are shown on the test report.

### 6.4 Transmission Ceased Time

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set SPA Center Frequency = fundamental frequency, RBW=8MHz, VBW= 8MHz, Span =0Hz. Sweep Time= 10s.
3. Set EUT as normal operation and press Transmitter bottom for 2 s approximately, set SPA Max hold. Delta Mark.

### 6.5 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50  $\mu$ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was po-

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sitioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.

4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

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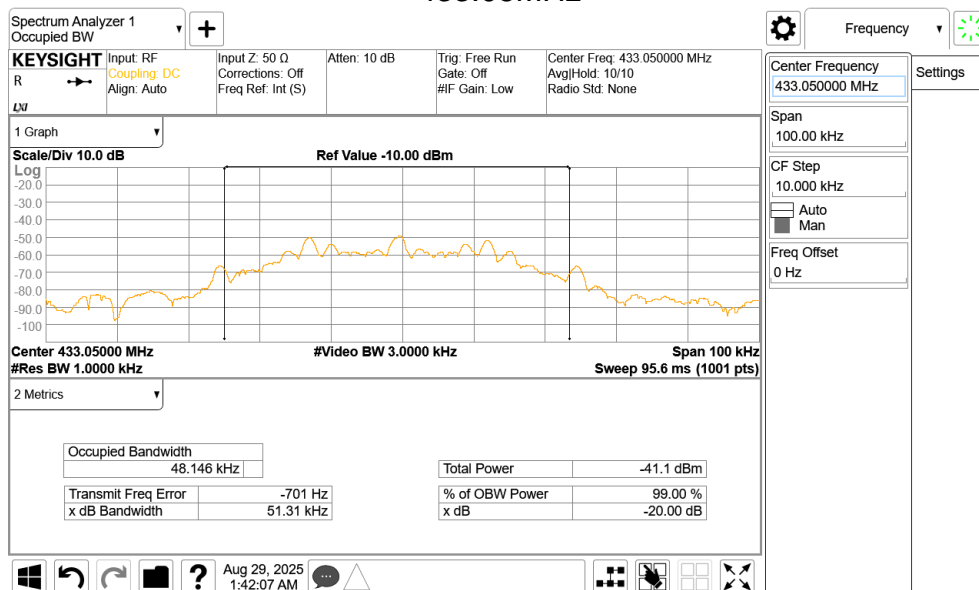
## 7 TEST RESULTS

### 7.1 Emission Bandwidth

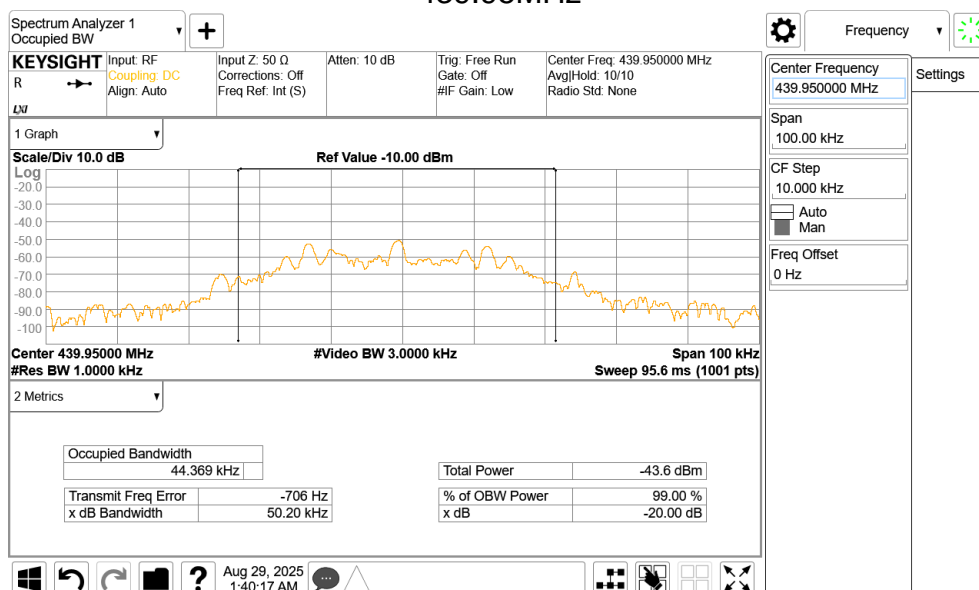
According to the Rules, section 15.231(C), the Bandwidth of Center Frequency should be calculated as following:

Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)			
433.05	51.31	48.146	433.05	X	0.0025	= 1082.6
439.95	50.20	44.369	439.95	X	0.0025	= 1099.9

#### 433.05MHz



#### 439.95MHz



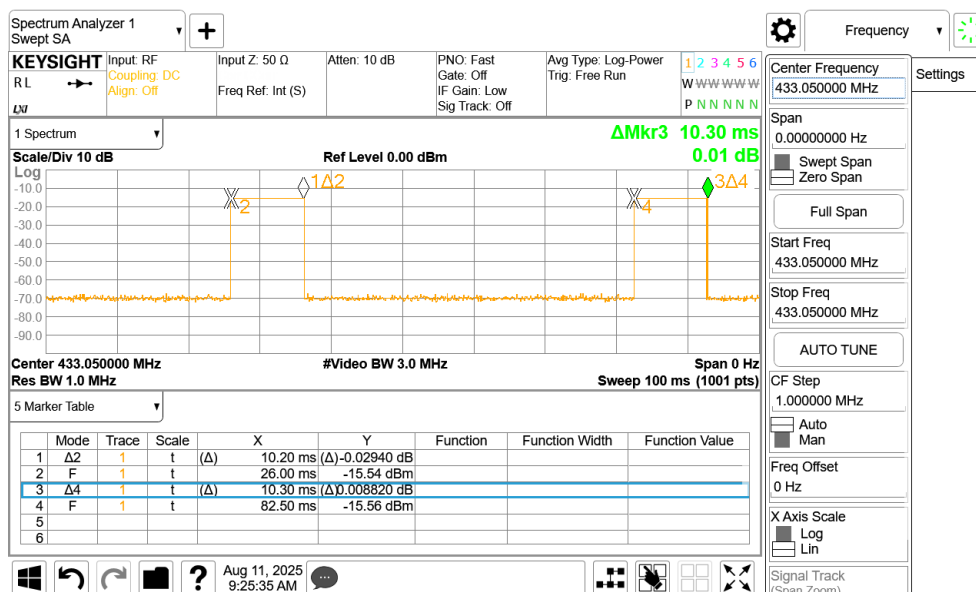
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## 7.2 Duty Cycle Correction Factor

Ton (ms)	TP=Ton(ms) / 100(ms)	Avg correction factor(dB) = 20log(Ton/TP)
20.5	0.205	-13.76



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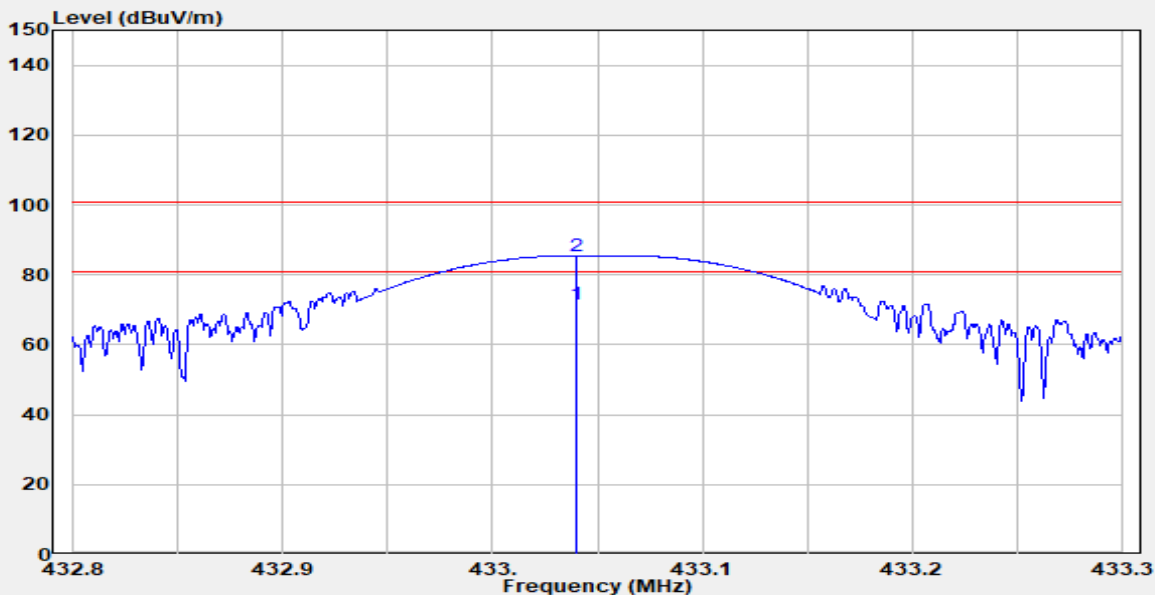
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### 7.3 Radiated Emission

#### 7.3.1 Field Strength of Fundamental

Report Number :TERF2410003256E2  
Operation Mode :SRD  
Test Frequency :433.05 MHz  
Test Mode :Main  
EUT Pol :E2 Plane

Test Site :SAC C  
Test Date :2025-08-11  
Temp./Humi. :24.1°C/53%  
Antenna Pol. :Vertical  
Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
433.040	Average	78.90	-7.18	71.72	80.80	-9.08
433.040	Peak	92.66	-7.18	85.48	100.80	-15.32

Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

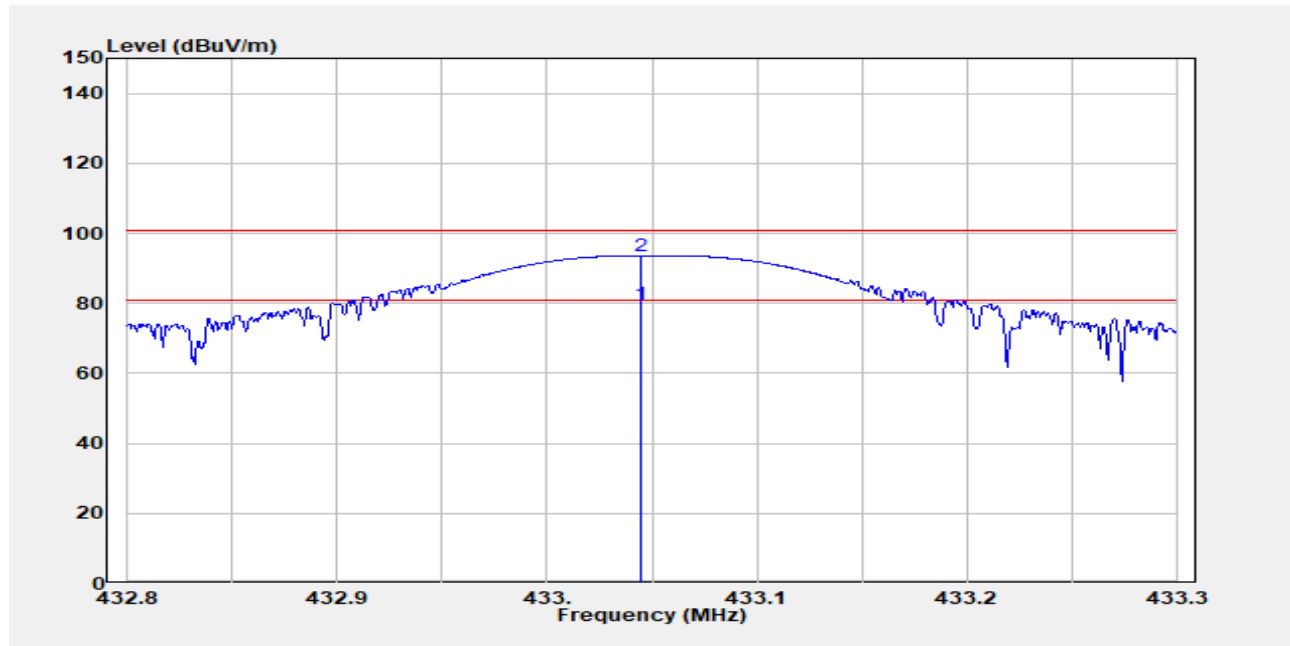
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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :433.05 MHz  
 Test Mode :Main  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-11  
 Temp./Humi. :24.1°C/53%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
433.045	Average	86.97	-7.18	79.79	80.80	-1.01
433.045	Peak	100.72	-7.18	93.55	100.80	-7.25

Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

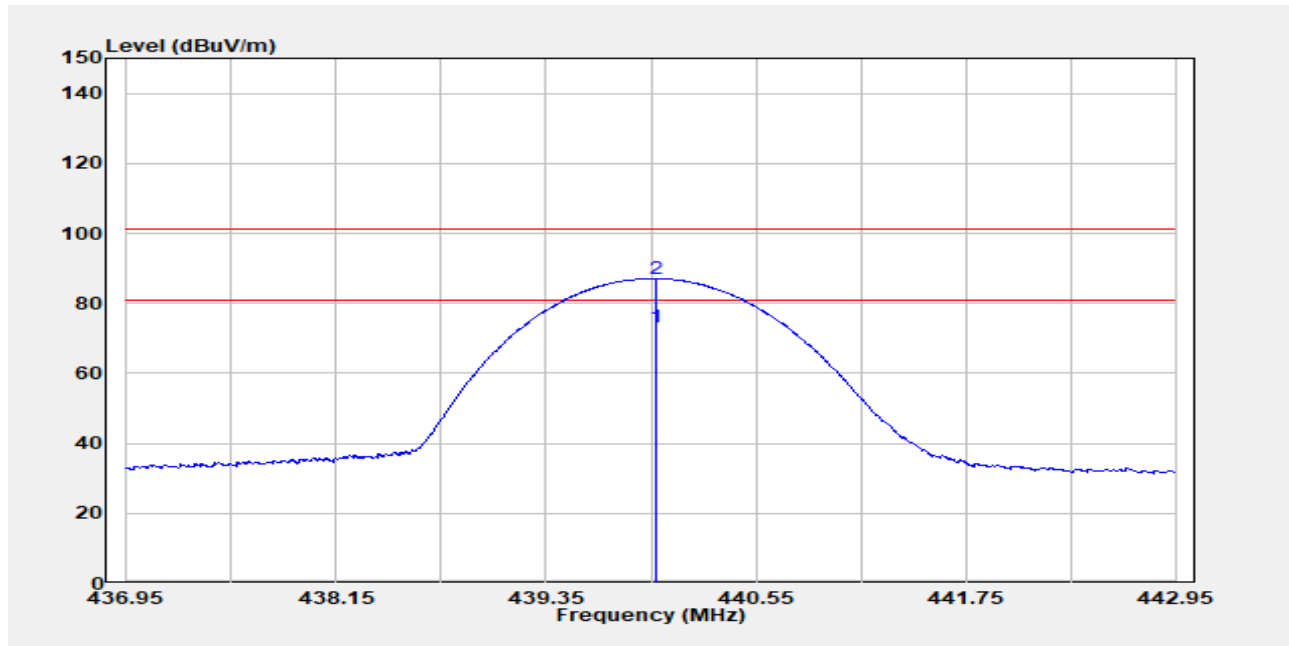
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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :439.95 MHz  
 Test Mode :Main  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-11  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
439.980	Average	80.26	-6.97	73.29	81.02	-7.73
439.980	Peak	94.02	-6.97	87.05	101.02	-13.97

Average Duty Cycle Factor= -13.76 (dB)

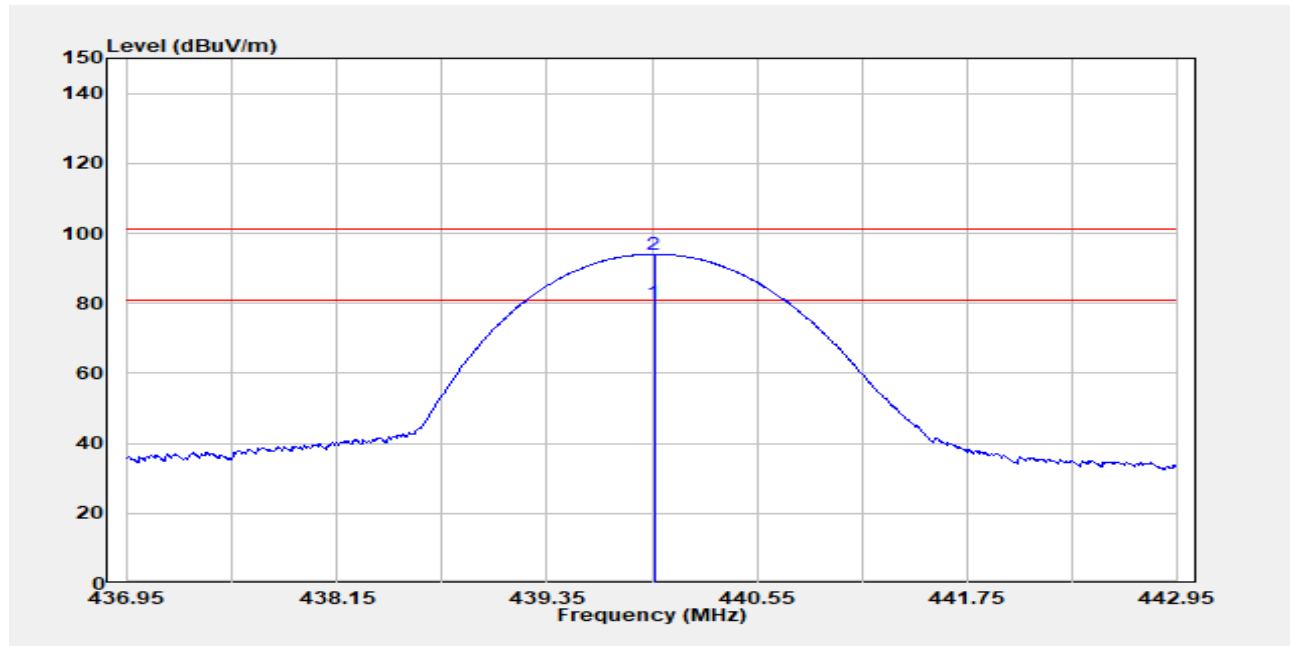
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :439.95 MHz  
 Test Mode :Main  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-11  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
439.962	Average	87.25	-6.97	80.28	81.02	-0.74
439.962	Peak	101.01	-6.97	94.04	101.02	-6.98

Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

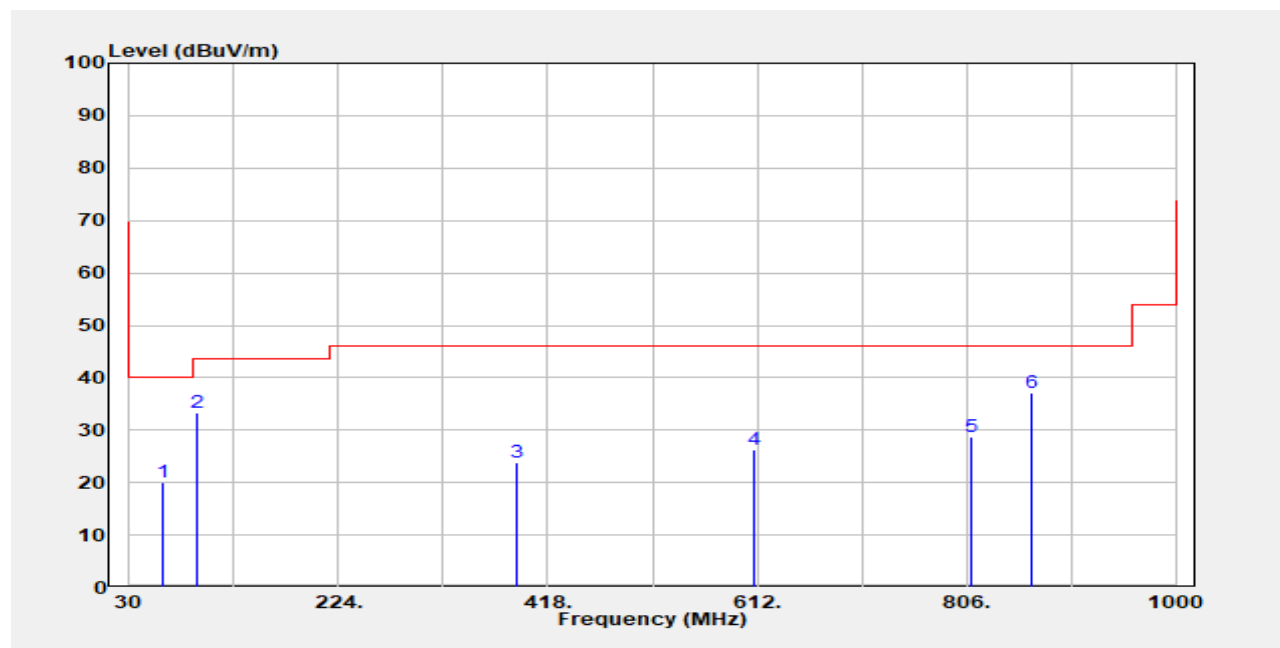
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## 7.3.2 Field Strength of Spurious Emission

Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :433.05 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-11  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



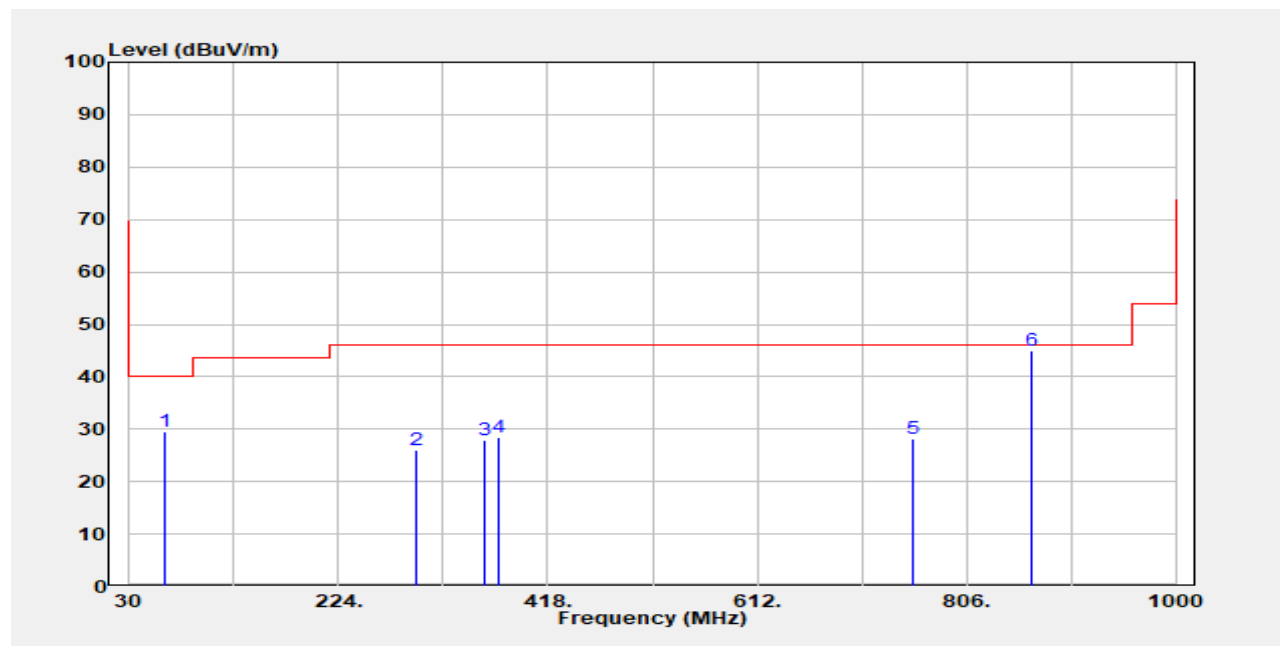
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
61.04	QP	32.60	-12.67	19.93	40.00	-20.07
92.08	Peak	51.35	-18.03	33.32	43.50	-10.18
389.87	Peak	32.23	-8.48	23.75	46.00	-22.25
609.09	Peak	29.68	-3.41	26.27	46.00	-19.73
809.88	Peak	29.09	-0.24	28.85	46.00	-17.15
866.10	Peak	36.74	0.41	37.15	46.00	-8.85

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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :433.05 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-11  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



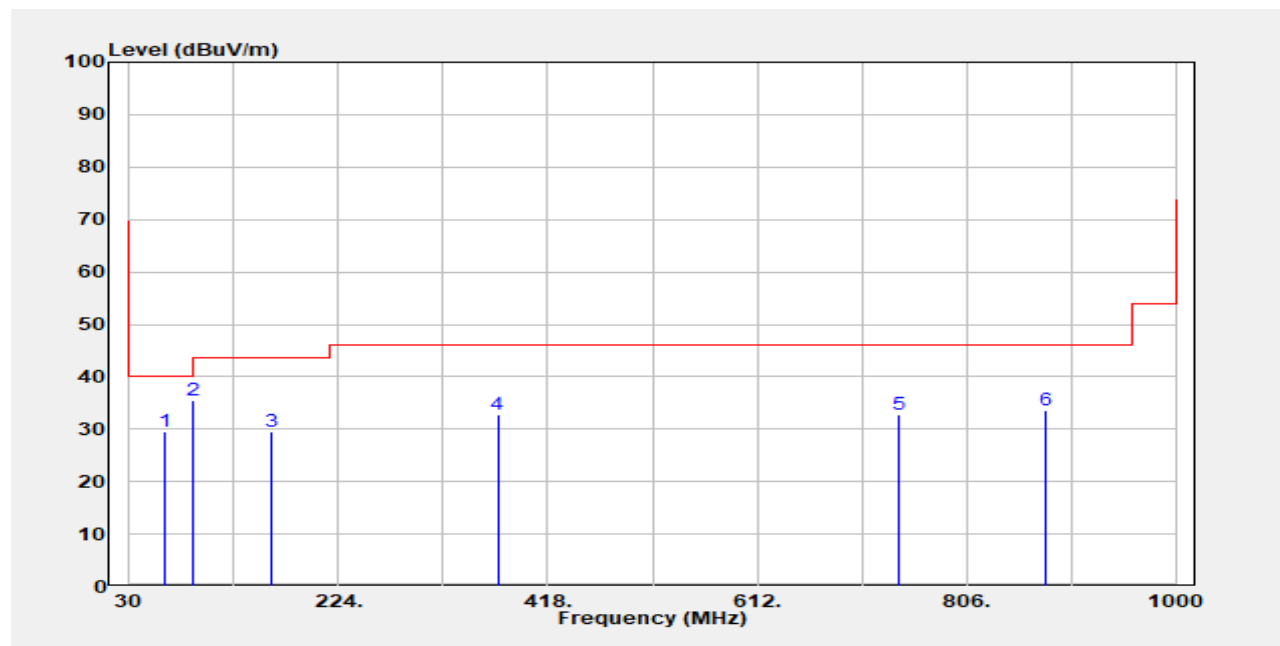
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.01	Peak	42.27	-12.85	29.42	40.00	-10.58
296.75	Peak	37.03	-11.05	25.98	46.00	-20.02
358.83	Peak	37.41	-9.62	27.79	46.00	-18.21
372.41	Peak	37.44	-9.05	28.39	46.00	-17.61
756.53	Peak	29.06	-0.92	28.14	46.00	-17.86
866.10	QP	44.70	0.41	45.11	46.00	-0.89

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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :439.95 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-12  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



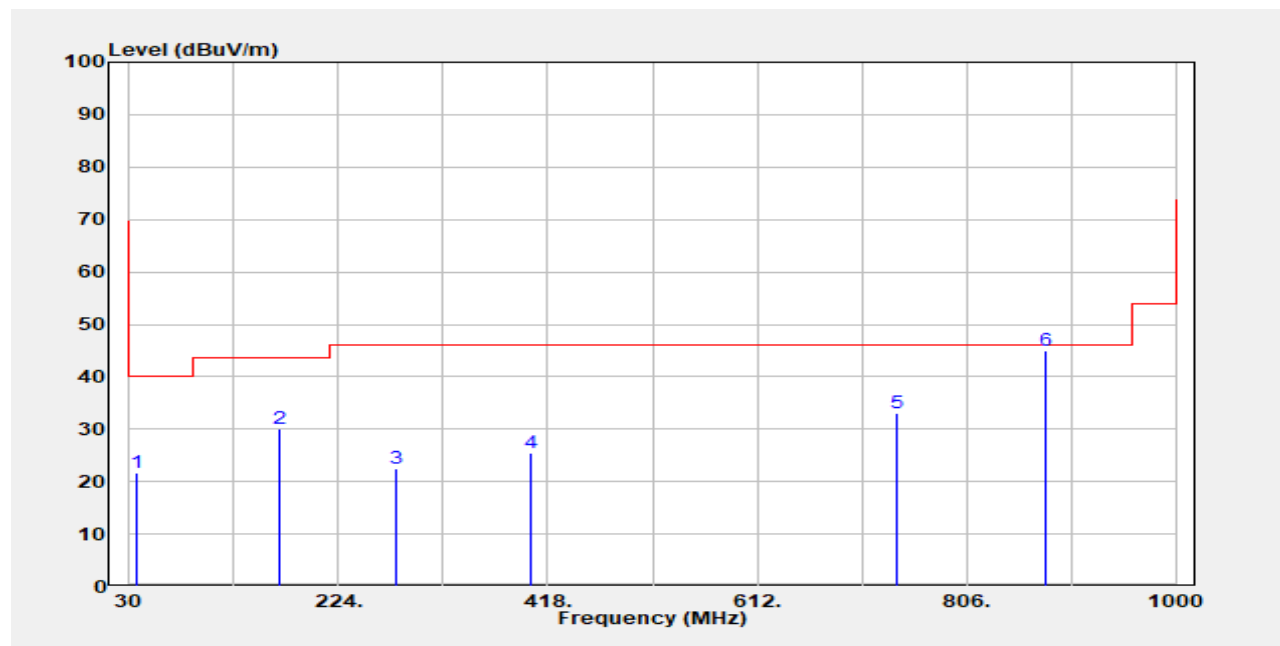
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.01	QP	42.29	-12.85	29.44	40.00	-10.56
89.17	Peak	53.78	-18.16	35.62	43.50	-7.88
161.92	Peak	41.55	-12.02	29.53	43.50	-13.97
371.44	Peak	41.83	-9.10	32.73	46.00	-13.27
742.95	QP	33.90	-1.20	32.70	46.00	-13.30
879.90	QP	33.30	0.30	33.60	46.00	-12.40

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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :439.95 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-12  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



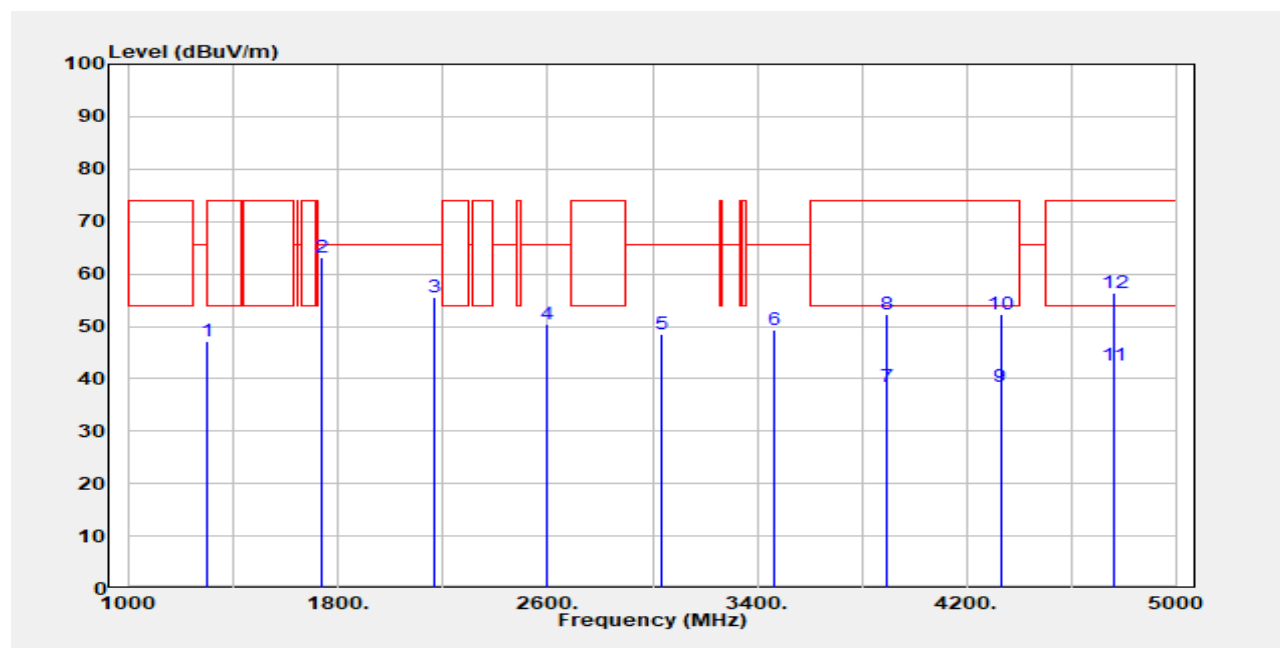
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
36.79	QP	34.29	-12.58	21.71	40.00	-18.29
169.68	Peak	42.42	-12.34	30.08	43.50	-13.42
277.35	QP	33.99	-11.54	22.45	46.00	-23.55
401.51	QP	33.81	-8.34	25.47	46.00	-20.53
741.01	QP	34.41	-1.26	33.15	46.00	-12.85
879.90	QP	44.70	0.30	45.00	46.00	-1.00

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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :433.05 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-12  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1299.15	Peak	53.46	-6.33	47.13	65.48	-18.35
1732.20	Peak	69.71	-6.54	63.17	65.48	-2.31
2165.25	Peak	59.51	-4.00	55.51	65.48	-9.97
2598.30	Peak	54.37	-3.97	50.40	65.48	-15.08
3031.35	Peak	50.80	-2.39	48.41	65.48	-17.07
3464.40	Peak	51.76	-2.53	49.23	65.48	-16.25
3897.45	Peak	53.56	-1.28	52.28	74.00	-21.72
4330.50	Peak	53.02	-0.77	52.25	74.00	-21.75
4763.05	Peak	56.18	0.17	56.35	74.00	-17.65
Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
3897.450	Average	52.28	-13.76	38.52	54.00	-15.48
4330.500	Average	52.25	-13.76	38.49	54.00	-15.51
4763.050	Average	56.35	-13.76	42.59	54.00	-11.41

Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

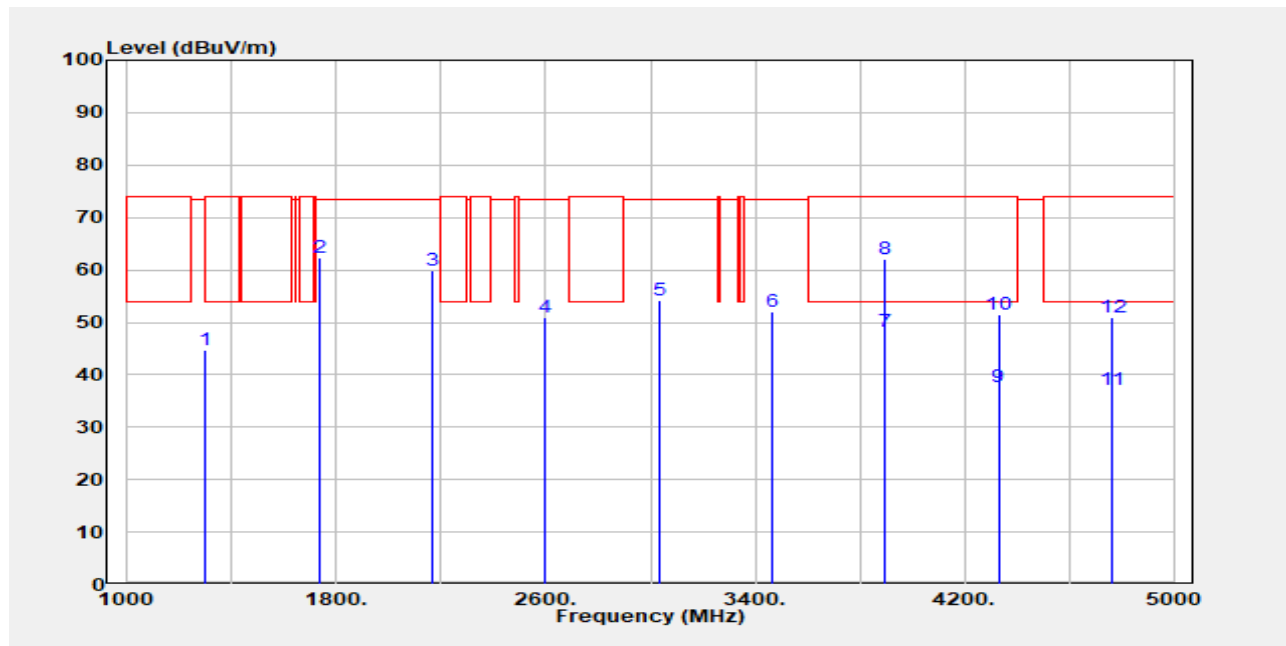
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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :433.05 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-12  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1299.15	Peak	50.93	-6.33	44.60	73.55	-28.95
1732.20	Peak	68.97	-6.54	62.43	73.55	-11.12
2165.25	Peak	63.90	-4.00	59.90	73.55	-13.65
2598.30	Peak	54.97	-3.97	51.00	73.55	-22.55
3031.35	Peak	56.46	-2.39	54.07	73.55	-19.48
3464.40	Peak	54.46	-2.53	51.93	73.55	-21.62
3897.45	Peak	63.25	-1.28	61.97	74.00	-12.03
4330.50	Peak	52.15	-0.77	51.38	74.00	-22.62
4763.05	Peak	50.82	0.17	50.99	74.00	-23.01
Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
3897.450	Average	61.97	-13.76	48.21	54.00	-5.79
4330.500	Average	51.38	-13.76	37.62	54.00	-16.38
4763.050	Average	50.99	-13.76	37.23	54.00	-16.77

Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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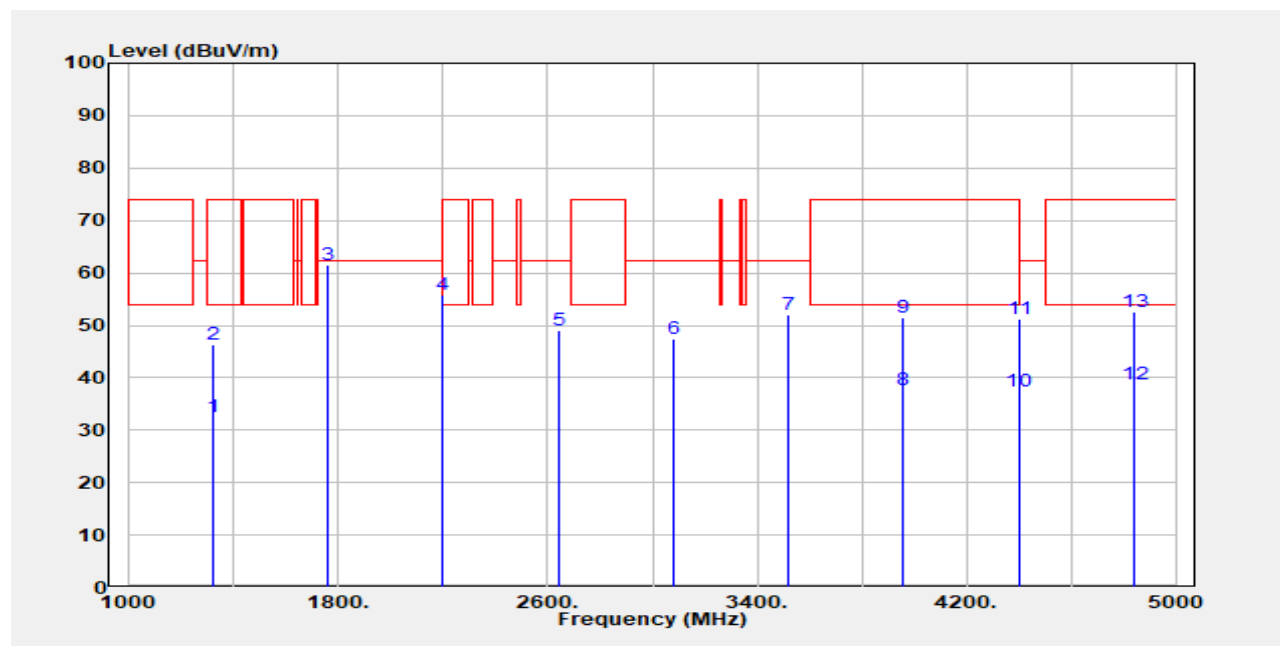
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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :439.95 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-12  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Vertical  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1319.850	Peak	52.20	-5.94	46.27	74.00	-27.73
1759.800	Peak	67.98	-6.47	61.51	62.28	-0.77
2199.750	Peak	59.53	-3.65	55.87	62.28	-6.41
2639.700	Peak	52.95	-3.86	49.09	62.28	-13.19
3079.650	Peak	49.81	-2.37	47.44	62.28	-14.84
3519.600	Peak	54.23	-2.14	52.09	62.28	-10.19
3959.550	Peak	52.90	-1.42	51.48	74.00	-22.52
4399.500	Peak	51.96	-0.67	51.29	74.00	-22.71
4839.450	Peak	52.28	0.18	52.46	74.00	-21.54

Freq. MHz	Detector Mode AV	Peak Actual FS (dBμV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
1319.850	Average	46.27	-13.76	32.51	54.00	-21.49
3959.550	Average	51.48	-13.76	37.72	54.00	-16.28
4399.500	Average	51.29	-13.76	37.53	54.00	-16.47
4839.450	Average	52.46	-13.76	38.70	54.00	-15.30

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Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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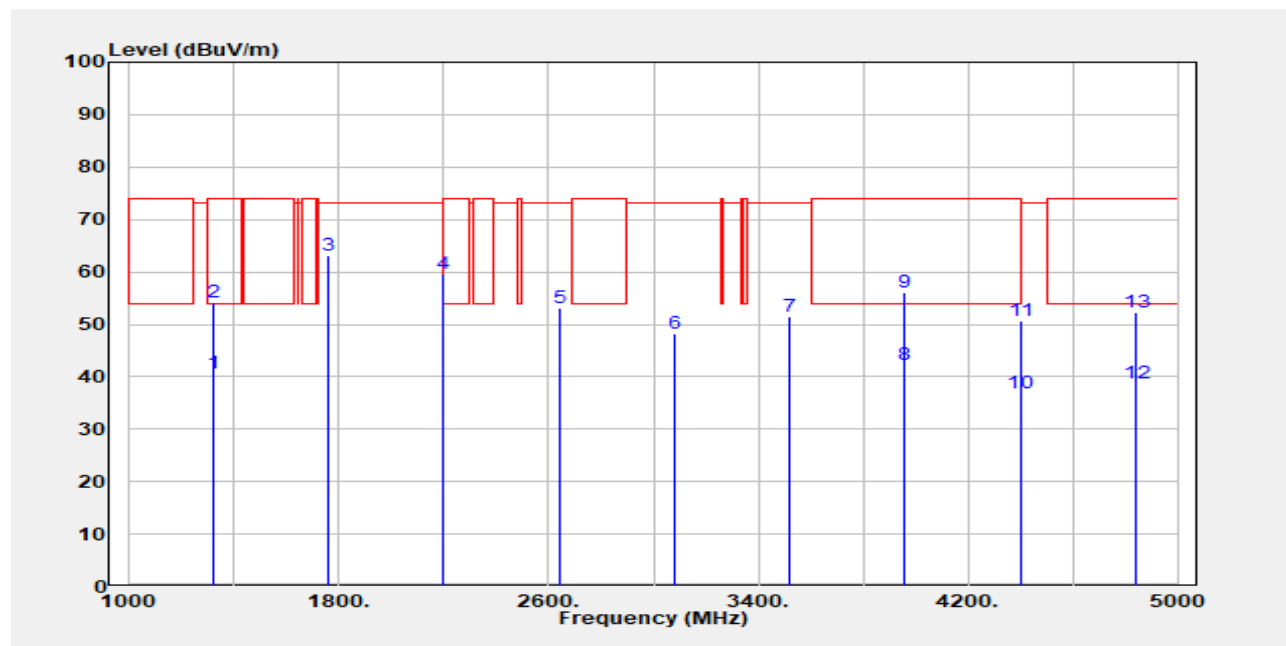
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Report Number :TERF2410003256E2  
 Operation Mode :SRD  
 Test Frequency :439.95 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2025-08-12  
 Temp./Humi. :23.1°C/51%  
 Antenna Pol. :Horizontal  
 Engineer :Alex Li



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1319.850	Peak	60.26	-5.94	54.32	74.00	-19.68
1759.800	Peak	69.62	-6.47	63.15	73.05	-9.90
2199.750	Peak	63.39	-3.65	59.74	73.05	-13.31
2639.700	Peak	57.08	-3.86	53.22	73.05	-19.83
3079.650	Peak	50.62	-2.37	48.25	73.05	-24.80
3519.600	Peak	53.65	-2.14	51.51	73.05	-21.54
3959.550	Peak	57.52	-1.42	56.11	74.00	-17.90
4399.500	Peak	51.25	-0.67	50.58	74.00	-23.42
4839.450	Peak	52.23	0.18	52.42	74.00	-21.58

Freq. MHz	Detector Mode AV	Peak Actual FS (dBuV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Average Limit@3m (dBuV/m)	Margin (dB)
1319.850	Average	54.32	-13.76	40.56	54.00	-13.44
3959.550	Average	56.11	-13.76	42.35	54.00	-11.65
4399.500	Average	50.58	-13.76	36.82	54.00	-17.18
4839.450	Average	52.42	-13.76	38.66	54.00	-15.34

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Average Duty Cycle Factor= -13.76 (dB)

Average Level= Peak Level+ Duty Cycle Factor

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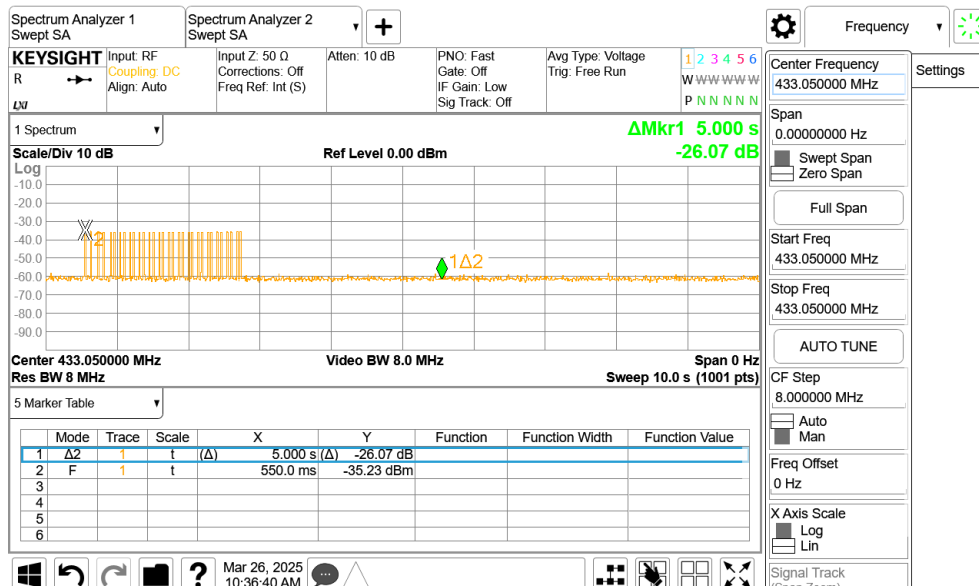
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## 7.4 Transmission Ceased Time

The release time is less than 5 s.



## 7.5 AC Power Line Conducted Emission

N/A; Powered from battery.

~ End of Report ~

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