

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



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

FCC 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 12PRO2

Family Model No.: FLEX 4PRO2, FLEX 6PRO2, FLEX 8PRO2

Report Number: TERF2503000833E2

FCC ID R4UARCFLEXPRO2

Date of EUT Received: March 3, 2025

Date of Test: March 10, 2025 ~ March 18, 2025

Issue Date: April 29, 2025

Approved By**Jay Lin****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 C63.10:2013 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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t (886-2) 2299-3279

f (886-2) 2298-0488

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2503000833E2	00	Original	April 23, 2025	Yuri Tsai	
TERF2503000833E2	01	Add note at section 7.5 and update section 8.3 & 10.2	April 29, 2025	Yuri Tsai	*

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.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Industrial radio remote control systems
Brand Name:	ARC
Model No.:	FLEX 12PRO2
Family Model No.:	FLEX 4PRO2, FLEX 6PRO2, FLEX 8PRO2
Model Difference:	4PRO2: 4 Push button 6PRO2: 6 Push button 8PRO2: 8 Push button 12PRO2: 12 Push button
Hardware Version:	1
Firmware Version:	1
EUT Series No.:	000001
Power Supply:	3 Vdc from AA Battery
Test Software (Name/Version)	Default (Push button)

1.2 RF specification

Radio Technology:	Short Range Radio
Operating Frequency	433.00MHz ~ 434.550MHz
Transmit Power	≤ 92.87 dBuV/m Max.
Modulation Technique	FSK
Number of Channels	32 Channel
Channel Spacing	50 kHz
Antenna Type	PCB Antenna

Note: Antenna information is provided by the applicant.

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1.3 Test Methodology

FCC Part 15, Subpart C §15.231
ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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	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	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: 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.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and 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.

2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

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.

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

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2.4.2 For all conducted test items:

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.

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2.5 Test Configuration

Conducted Setup	Radiated Setup
	

2.6 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Non 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
§15.231(a)(3)	Total transmission time does not exceed two seconds per hour.	Compliant
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

CH	FREQUENCY	CH	FREQUENCY
01	433.000MHZ	18	433.850MHZ
02	433.050MHZ	19	433.900MHZ
03	433.100MHZ	20	433.950MHZ
04	433.150MHZ	21	434.000MHZ
05	433.200MHZ	22	434.050MHZ
06	433.250MHZ	23	434.100MHZ
07	433.300MHZ	24	434.150MHZ
08	433.350MHZ	25	434.200MHZ
09	433.400MHZ	26	434.250MHZ
10	433.450MHZ	27	434.300MHZ
11	433.500MHZ	28	434.350MHZ
12	433.550MHZ	29	434.400MHZ
13	433.600MHZ	30	434.450MHZ
14	433.650MHZ	31	434.500MHZ
15	433.700MHZ	32	434.550MHZ
16	433.750MHZ		
17	433.800MHZ		

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4.2 The Worst Test Modes and Channel Details

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Kbps)
433 MHz	1 to 32	1,32	FSK	9.6
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Kbps)
433 MHz	1 to 32	1,32	FSK	9.6

Note:

The field strength of radiated 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.

ANTENNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Kbps)
433 MHz	1 to 32	1,32	FSK	9.6

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Frequency Stability	+/- 1.48 Hz
Emission Bandwidth	+/- 1.38 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

N/A

6.2 Radio Emissions 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
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R

6.3 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+23 10002+15	11/14/2024	11/13/2025
EMI Test Receiver	R&S	ESU 40	100363	04/30/2024	04/29/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026
Lowpass Filter	Woken	EW7-56-0019	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.

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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

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7 CONDUCTED EMISSIONS TEST

7.1 Standard Applicable

According to §15.207, frequency within 150 kHz 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

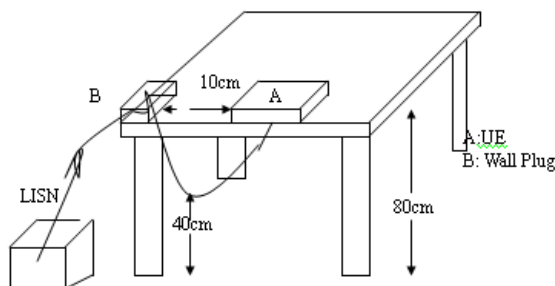
Note

- 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.

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Set-up:



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

7.5 Measurement Result

N/A; Powered from AA battery. Charging status, Radio is not supported.

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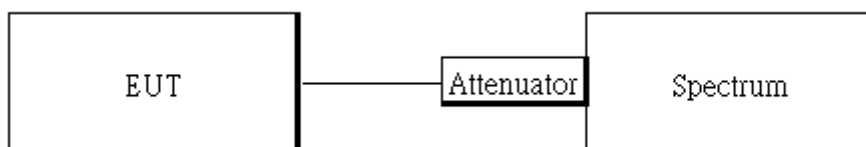
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8 DUTY CYCLE MEASUREMENT

8.1 Applicable Standard

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.

8.2 Test Setup



8.3 Measurement Procedure

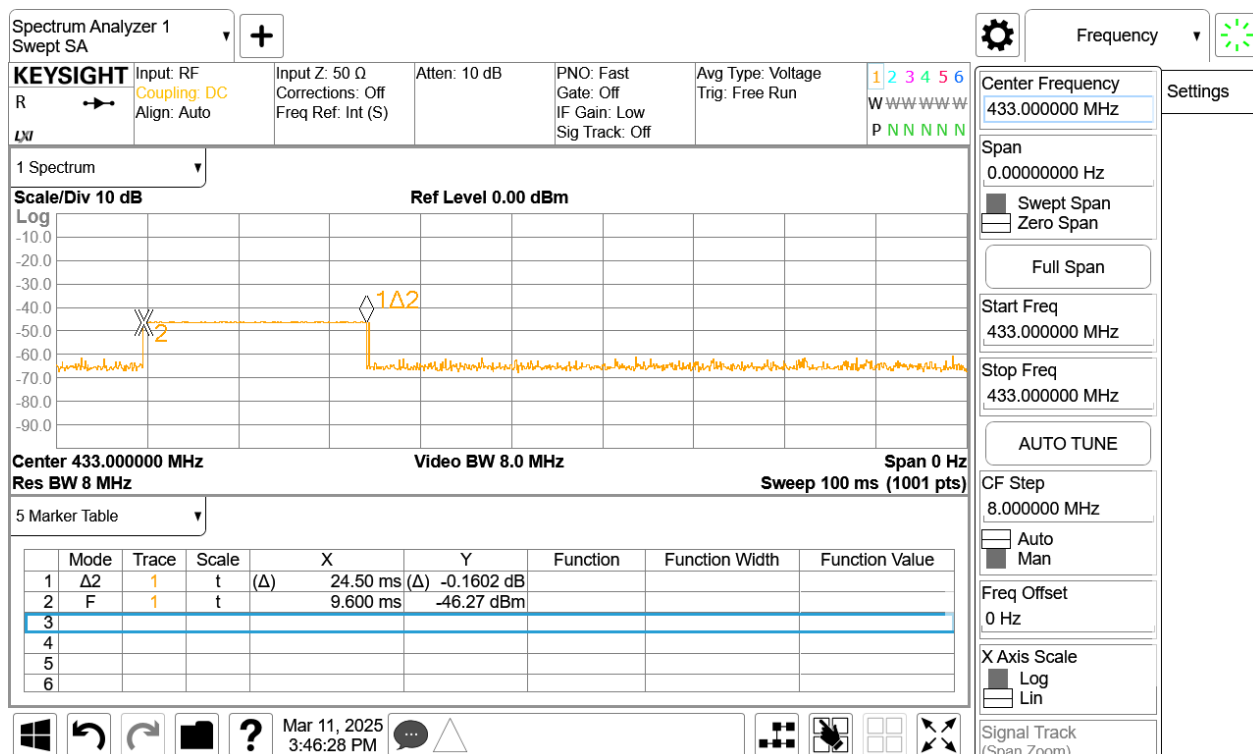
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 8MHz, Span =0 Hz. Adjacent sweep.
4. Set SPA View. Mark delta.

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8.4 Measurement Results:

Time ON of 100ms: 24.500 ms
Duty Cycle=24.5ms / 100ms= 0.245
Duty Cycle correction factor=20 LOG 0.245 = -12.21 dB

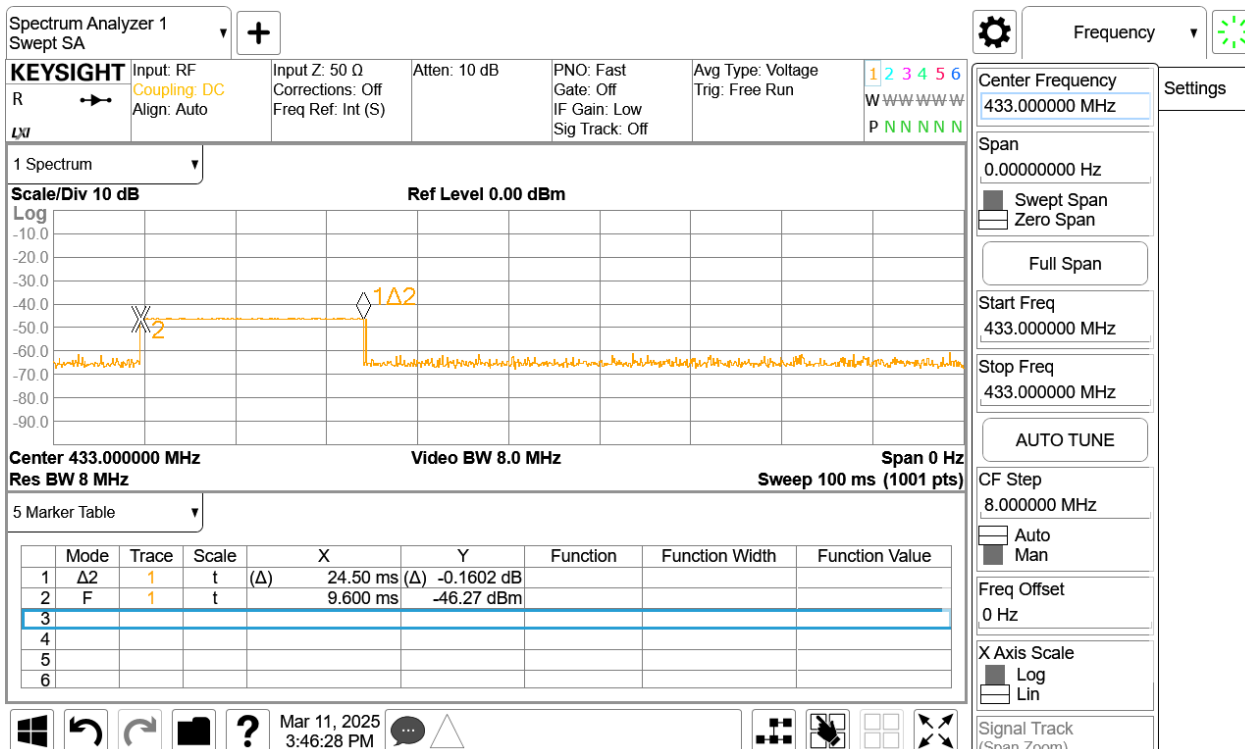


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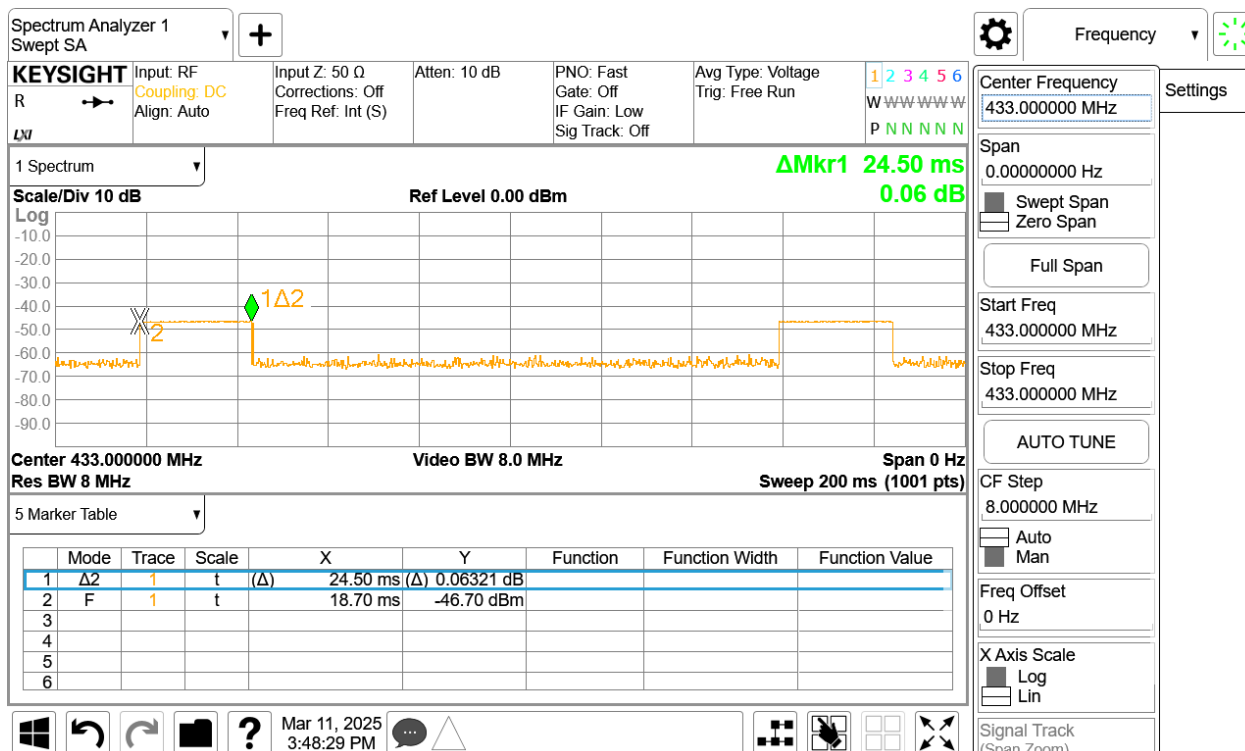
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100ms



200ms



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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9 EMISSION BANDWIDTH

9.1 Applicable Standard

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.

9.2 Test Setup

Refer to section 8.2 of this report.

9.3 Measurement Procedure

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, VBW= 3 x RBW, Span = large enough to capture all products of the modulation process.
4. Set SPA -20dB Occupied bandwidth.
5. Set SPA 99% Occupied bandwidth.

9.4 Measurement Results

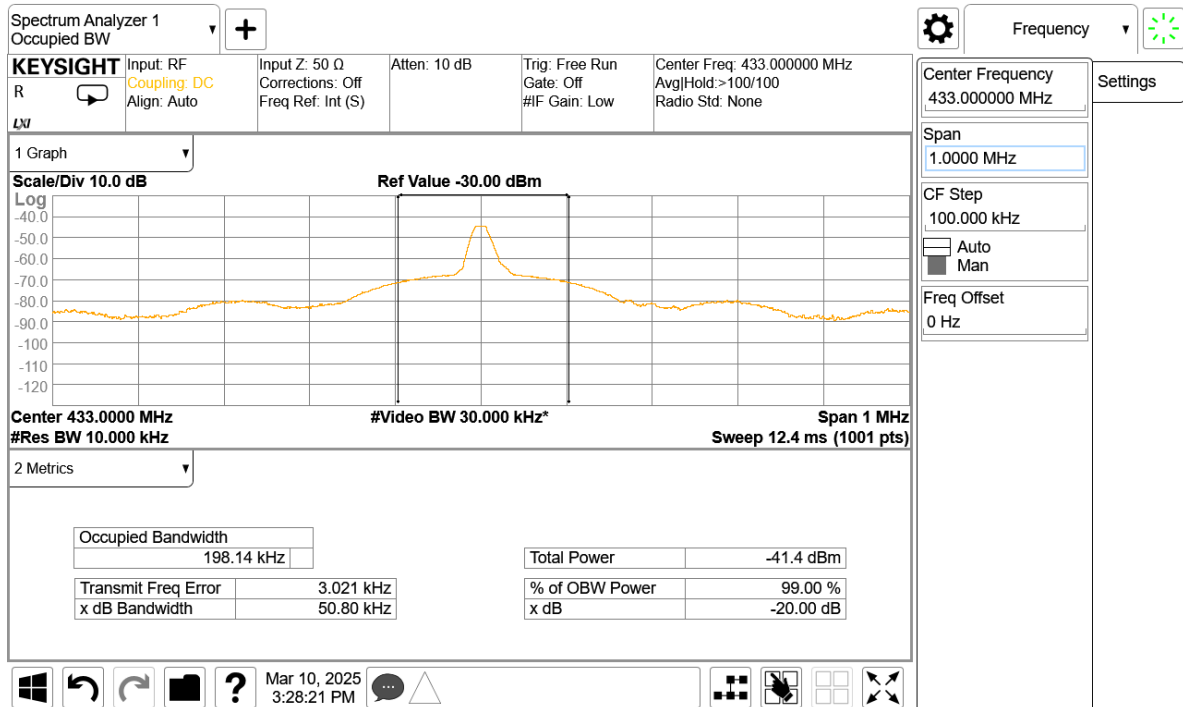
The center frequency f_c is **433.00MHz (CH Low) 、434.55MHz (CH High)**, according to the Rules, section 15.231(C), the Bandwidth of Center Frequency should be calculated as following:

Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)			
433	50.80	198.14	433	X	0.0025	= 1082.5
434.55	50.44	214.76	434.55	X	0.0025	= 1086.4

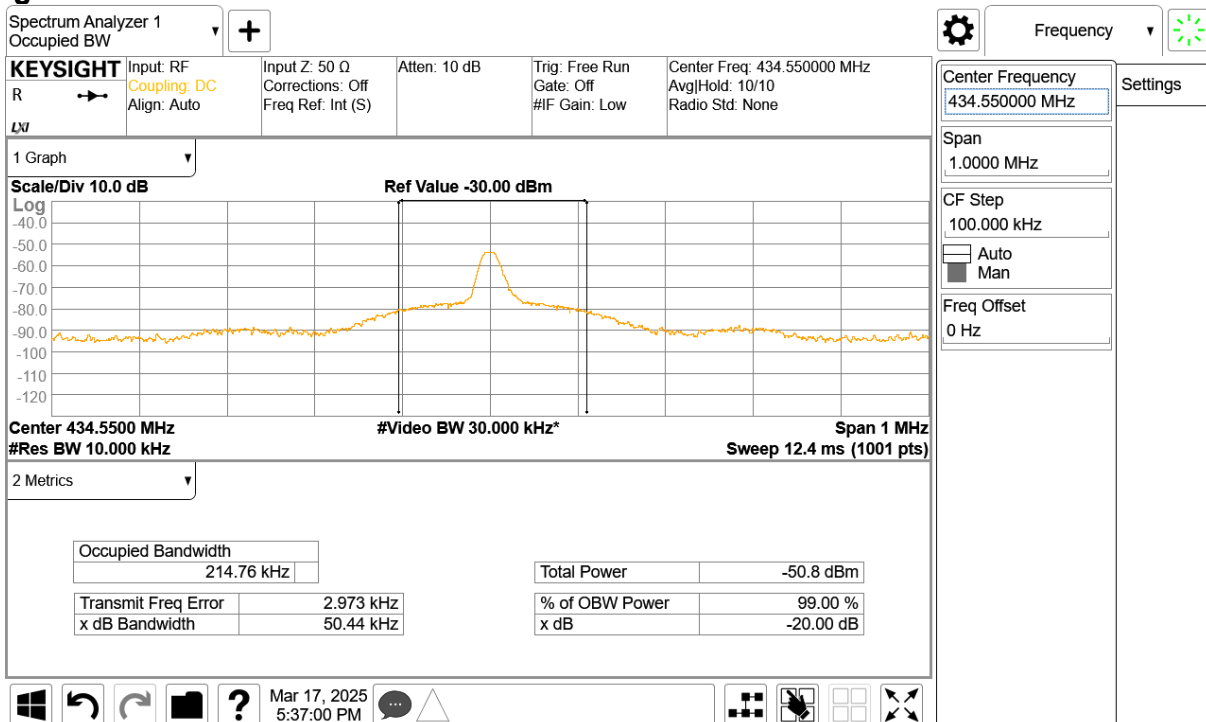
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CH Low



CH High



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10 TRANSMISSION CEASED TIME MEASUREMENT:

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.

10.1 Test Setup

Refer to 8.2 of this report.

10.2 Measurement Procedure

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= 5s.
3. Set EUT as normal operation and press Transmitter bottom for 2 s approximately,
4. Set SPA Max hold. Delta Mark.

10.3 Measurement Results

The release time is less than 5 s.



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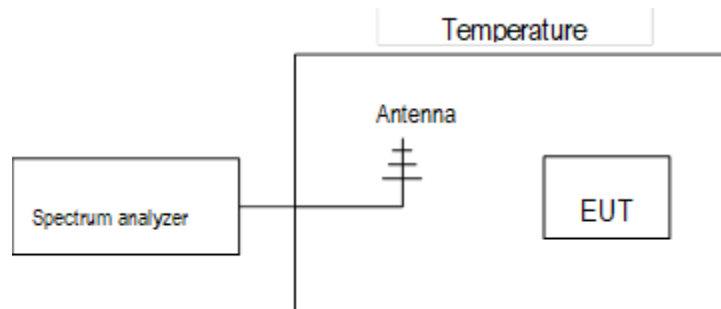
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11 TOTAL TRANSMISSION TIME

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.

11.1 Test Setup



11.2 Measurement Procedure

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.
4. Set SPA Max hold. Delta Mark.

11.3 Measurement Results

The applicant has obtained FCC approval to operate under 15.231(a)(4), allowing operation during an alarm condition to ensure relay functionality and prevent serious injury or death. This permits exceeding the polling time limit of "not more than two seconds per hour" as specified in 15.231(a)(3). Please refer to section 14 for detail.

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12 RADIATED EMISSION TEST

12.1 Standard Applicable

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 ($\mu\text{V/m}$) = $(56.81818 \cdot 82 \times f) - 6136.3636$

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.

12.2 Remark:

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.
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	AVG Limit	Peak Limit
	(uV/m)	(dBuV/m)	(dBuV/m)
433	10958.3478	80.79	100.79
434.55	11022.93119	80.85	100.85

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12.3 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. 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.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency of the interest measured were complete.

12.4 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 + $20 \cdot \log(\text{duty Cycle})$

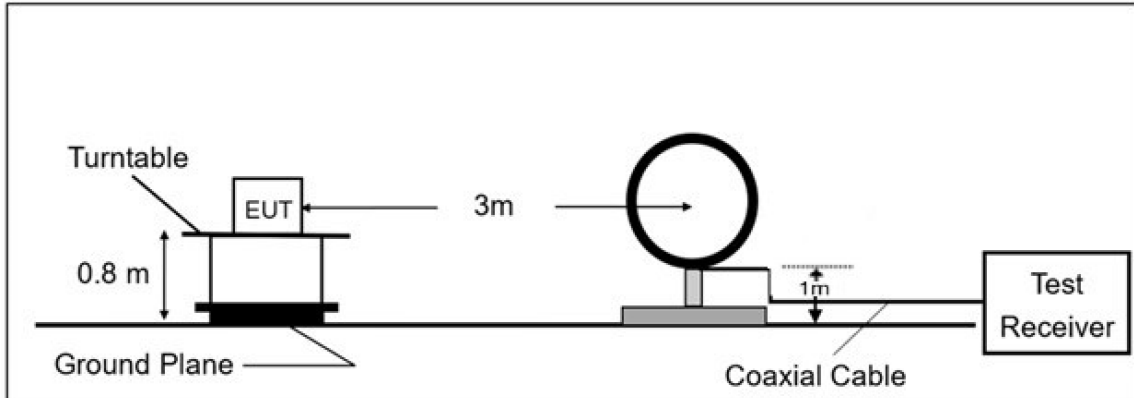
Test was measured starting from 9kHz to 10th harmonic of the fundamental frequency, and data containing the worst result above 30MHz are shown on the test report.

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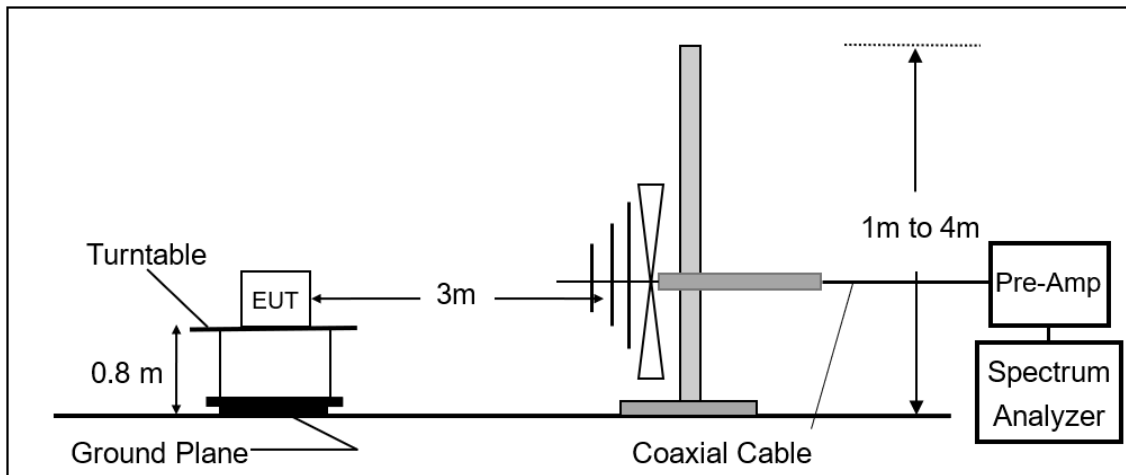
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12.5 Test Setup

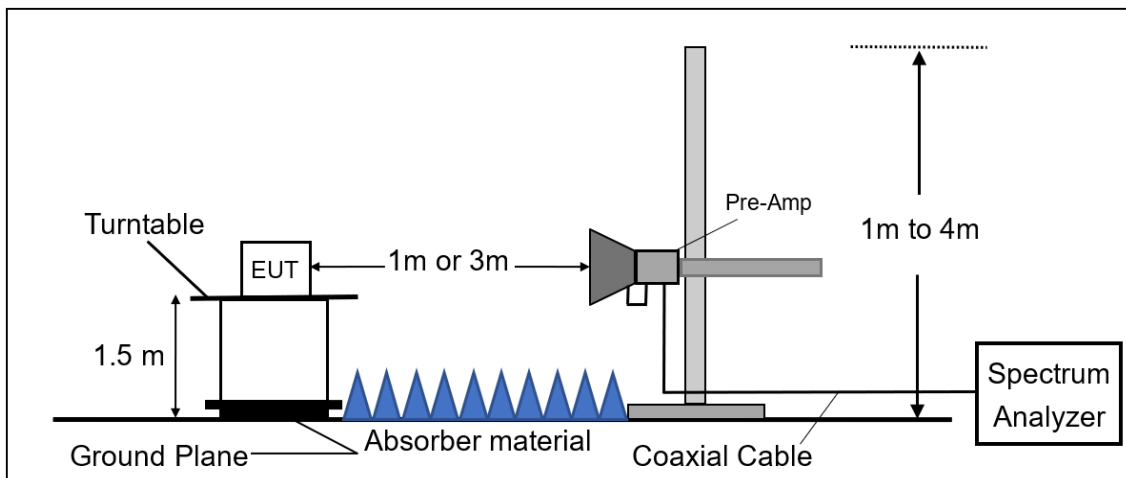
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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12.6 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	

Remark:

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(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

12.7 Measurement Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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12.8 Measurement Result

12.8.1 Field Strength of Fundamental

Note: Average Actual = Peak Actual + Average Factor

FLEX 12PRO2

Report Number :TERF2503000833E2

Operation Mode :SRD

Test Frequency :433 MHz

Test Mode :Main

EUT Pol :E2 Plane

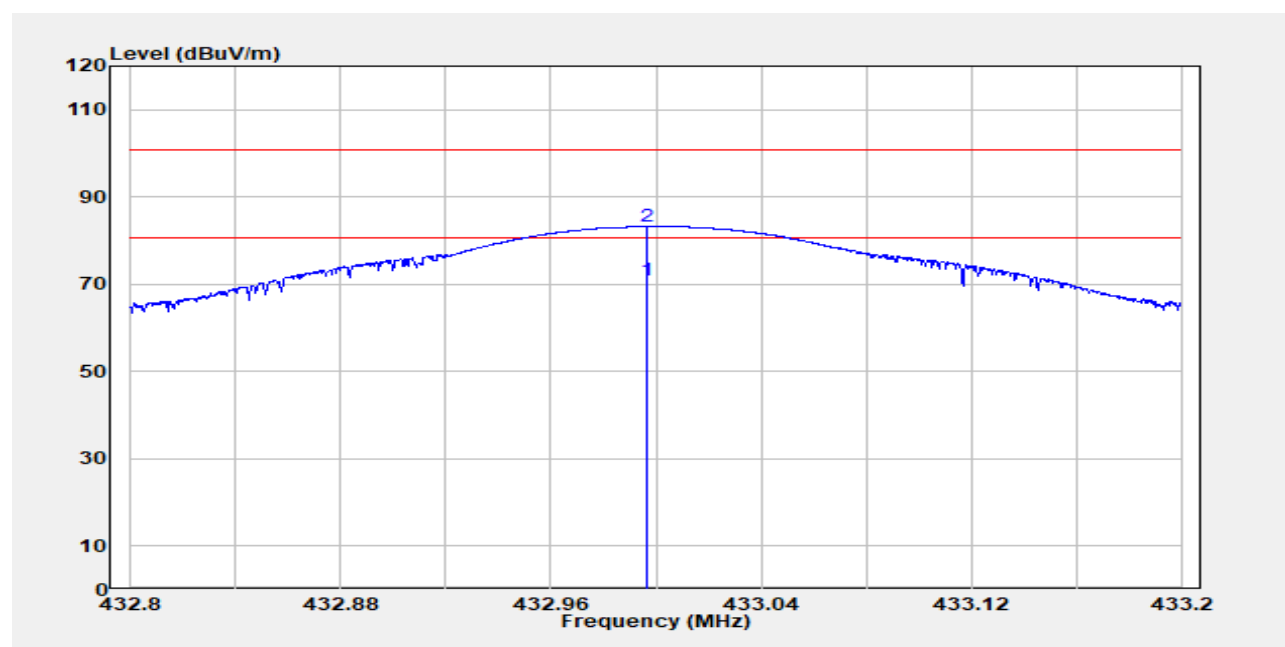
Test Site :SAC C

Test Date :2025-03-12

Temp./Humi. :25.2°C/59%

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
433.00	Average	78.14	-7.18	70.96	80.79	-9.83
433.00	Peak	90.35	-7.18	83.17	100.79	-17.62

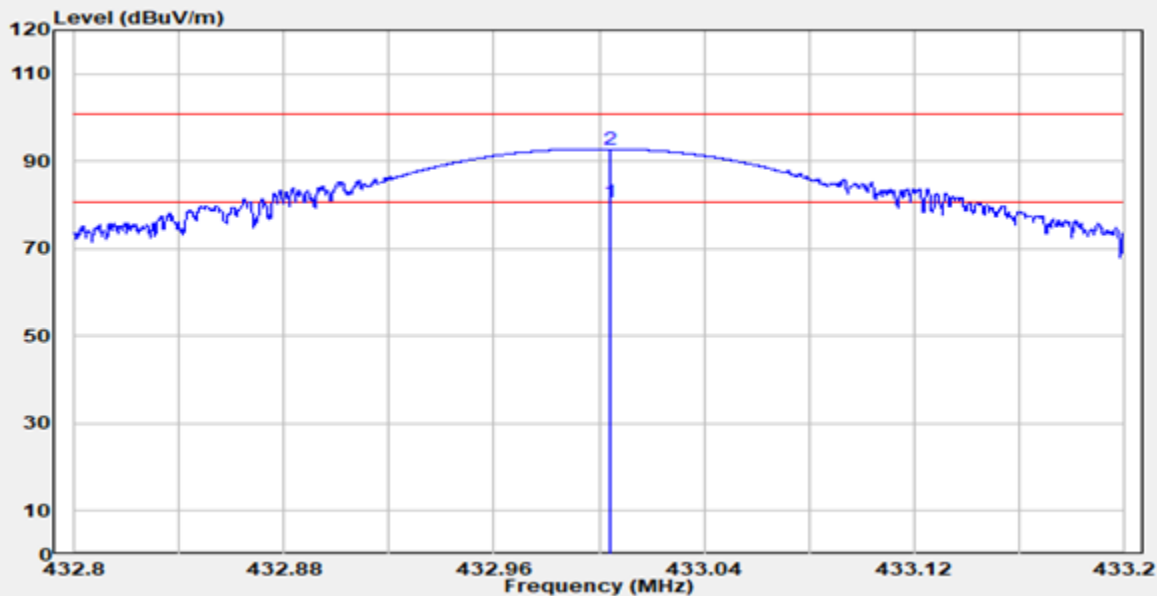
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.2°C/59%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



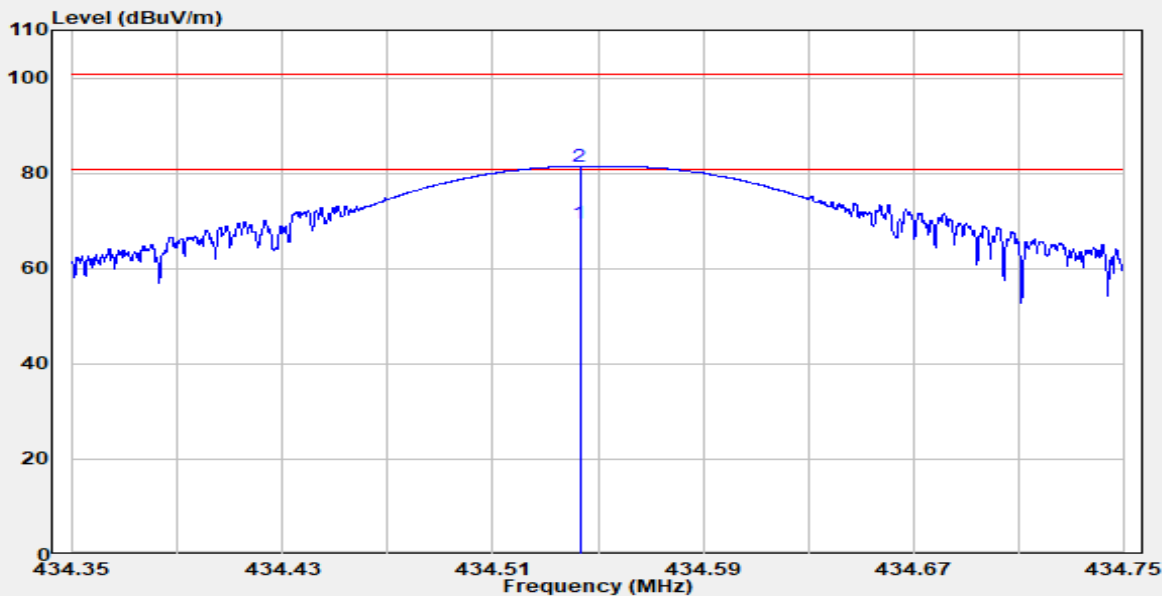
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
433.00	Average	87.75	-7.18	80.57	80.79	-0.22
433.00	Peak	99.96	-7.18	92.78	100.79	-8.01

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 Antenna Pol. :Vertical
 Engineer :Alex Li



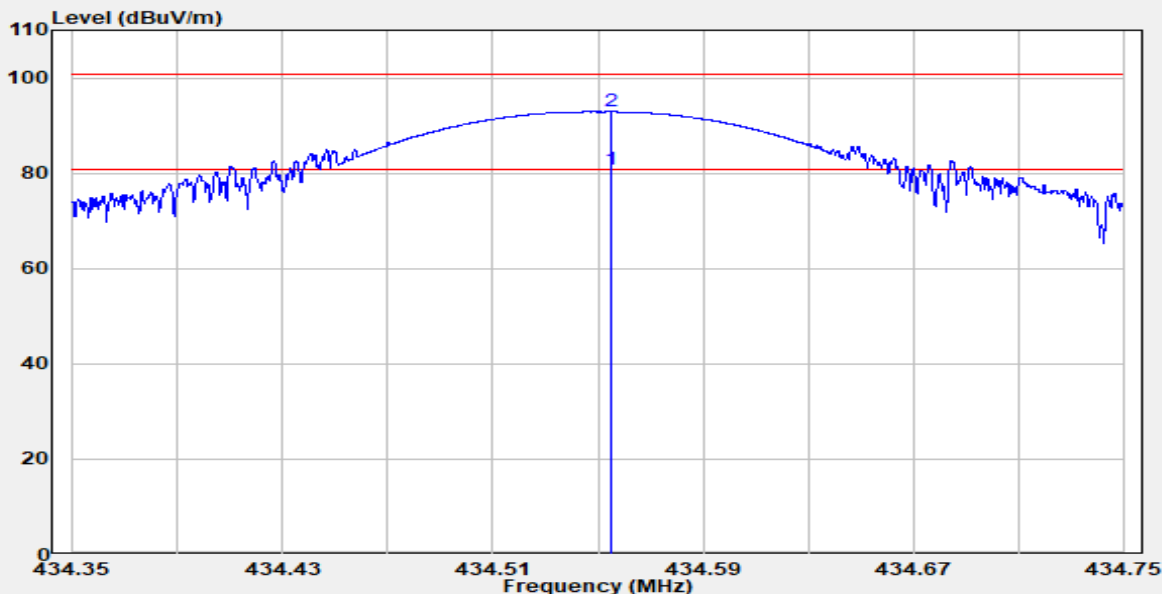
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
434.54	Average	76.42	-7.11	69.31	80.85	-11.54
434.54	Peak	88.63	-7.11	81.52	100.85	-19.33

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 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
434.56	Average	87.77	-7.11	80.66	80.85	-0.19
434.56	Peak	99.98	-7.11	92.87	100.85	-7.98

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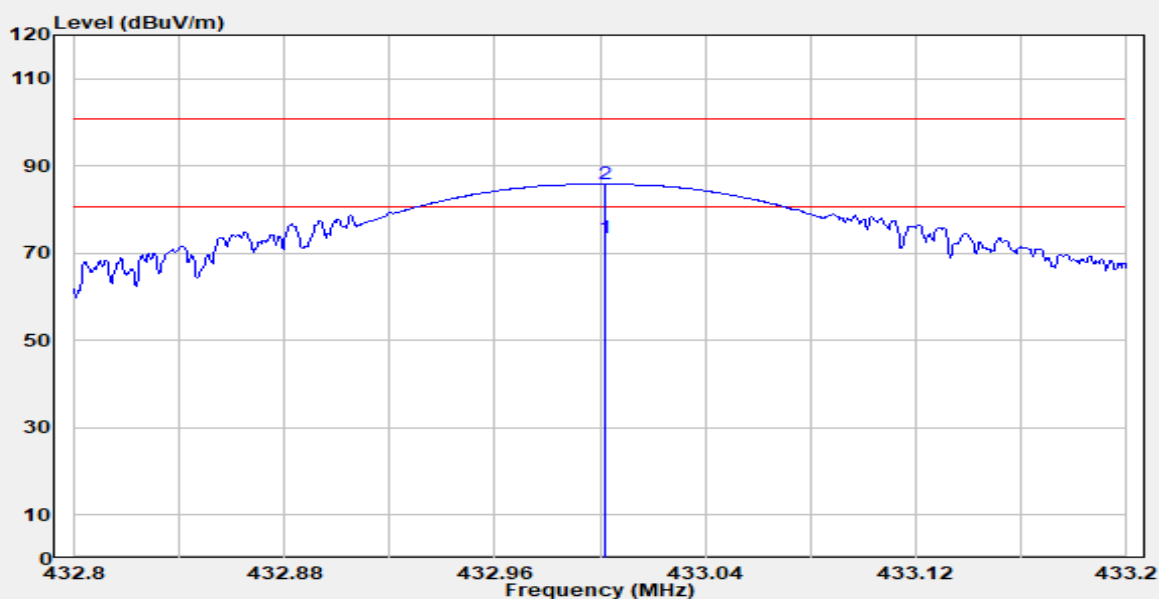
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FLEX 4PRO2

Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
433.00	Average	80.78	-7.18	73.60	80.79	-7.19
433.00	Peak	92.99	-7.18	85.81	100.79	-14.98

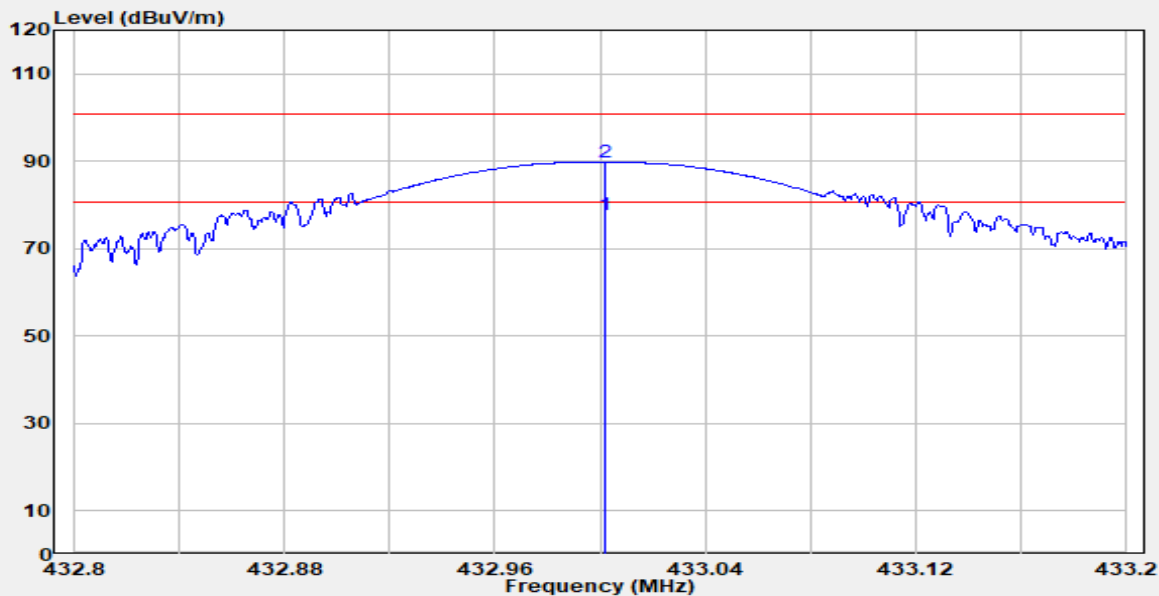
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



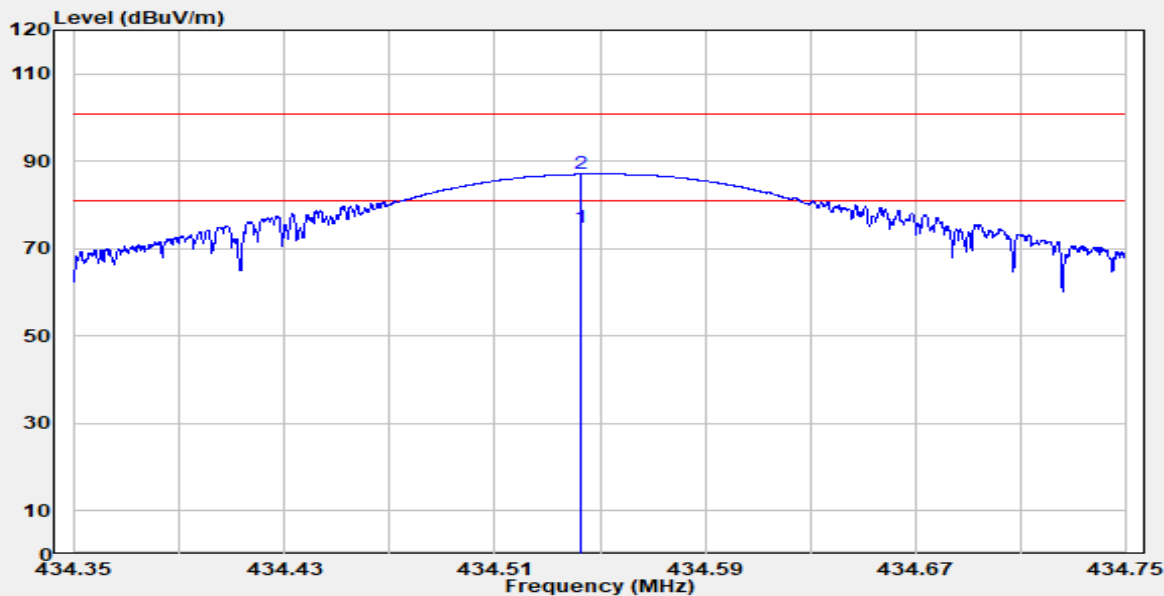
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
433.00	Average	84.78	-7.18	77.60	80.79	-3.19
433.00	Peak	96.99	-7.18	89.81	100.79	-10.98

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
434.54	Average	81.93	-7.11	74.82	80.85	-6.03
434.54	Peak	94.14	-7.11	87.03	100.85	-13.82

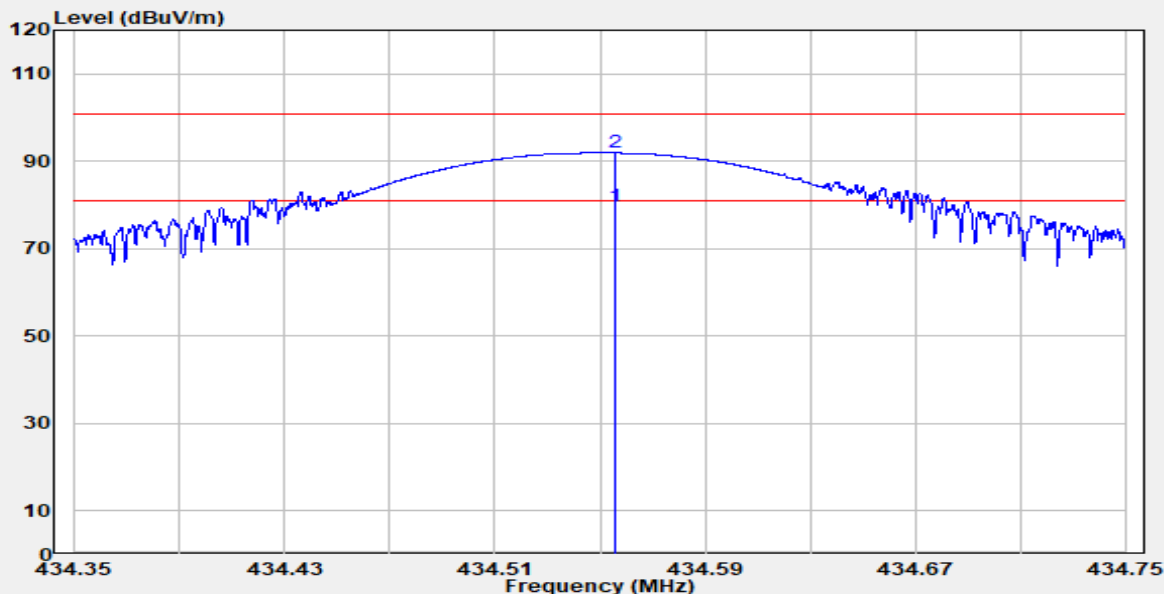
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
434.56	Average	86.80	-7.11	79.69	80.85	-1.16
434.56	Peak	99.01	-7.11	91.90	100.85	-8.95

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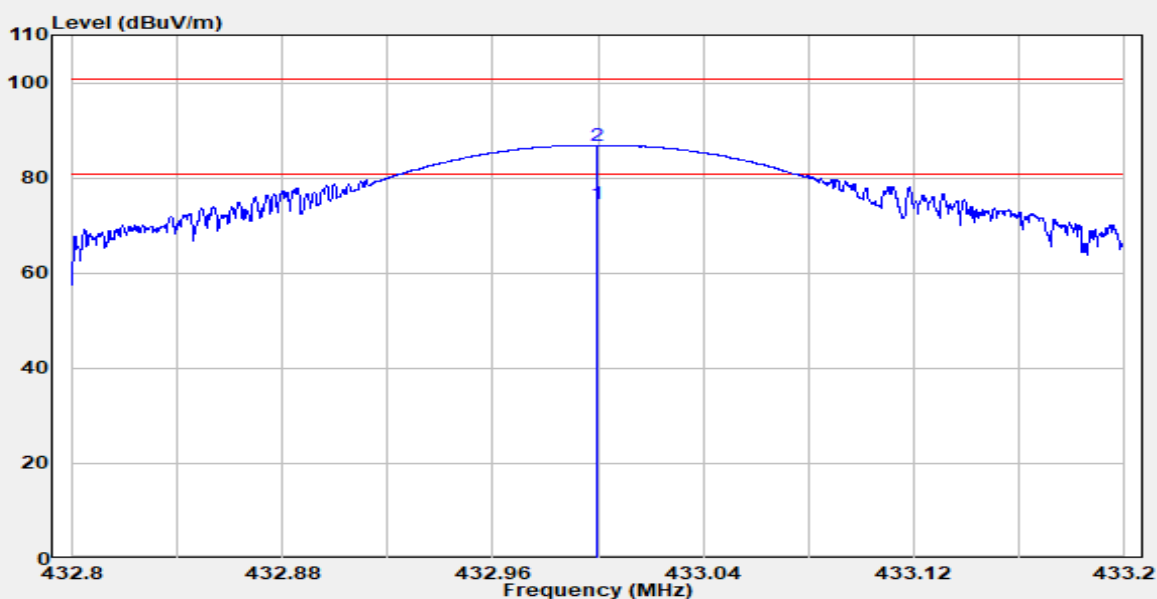
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FLEX 6PRO2

Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



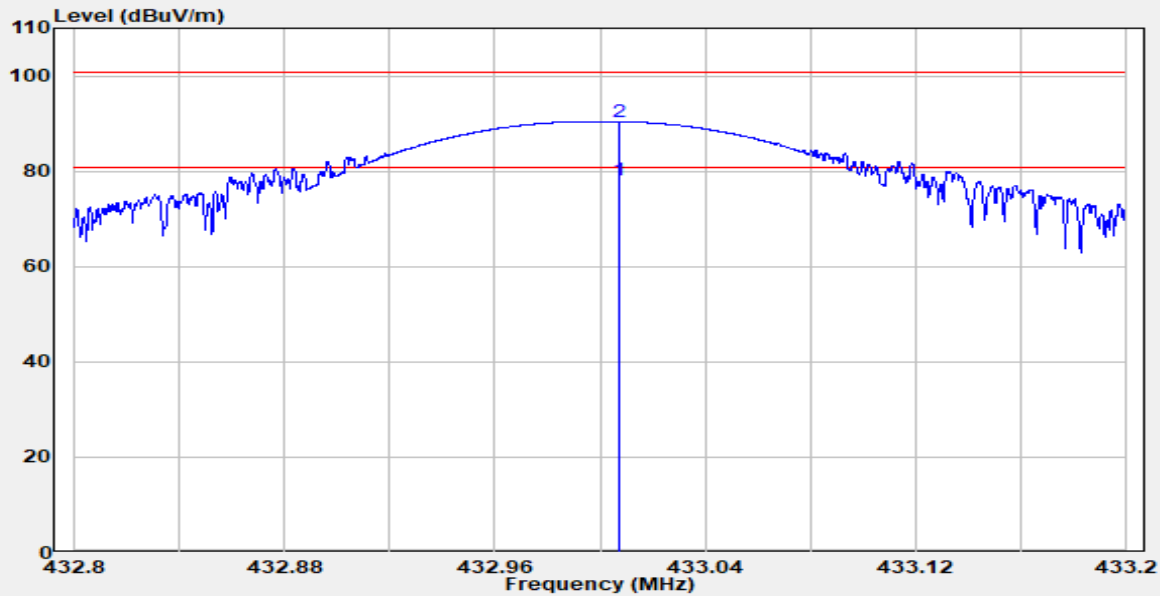
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
433.00	Average	81.85	-7.18	74.67	80.79	-6.12
433.00	Peak	94.06	-7.18	86.88	100.79	-13.91

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



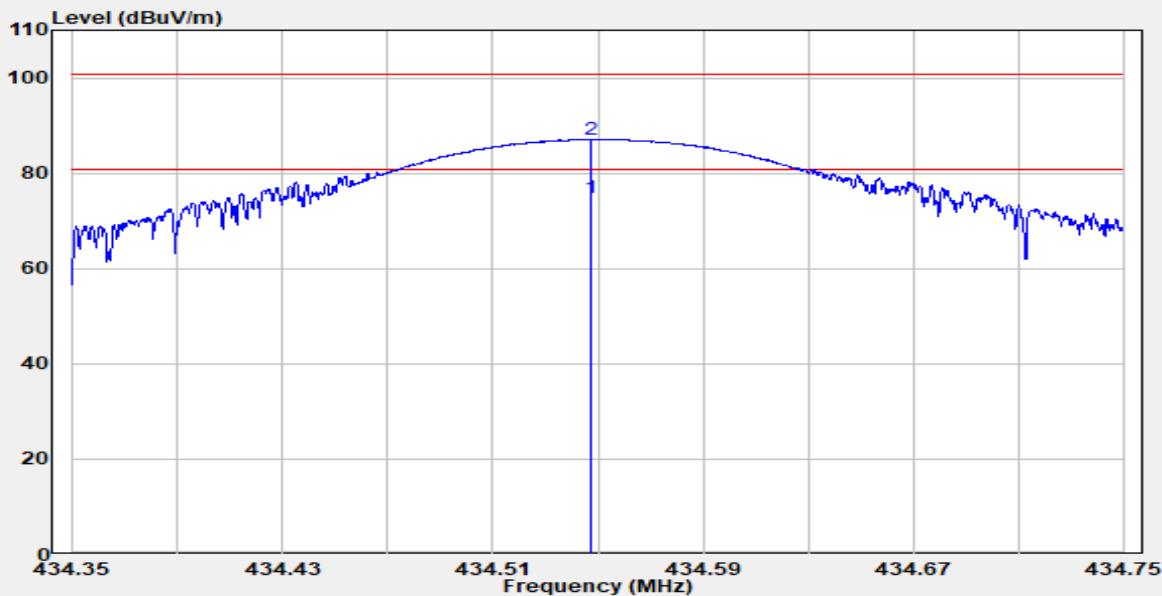
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
433.01	Average	85.38	-7.18	78.20	80.79	-2.59
433.01	Peak	97.59	-7.18	90.41	100.79	-10.38

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
434.55	Average	81.93	-7.11	74.82	80.85	-6.03
434.55	Peak	94.14	-7.11	87.03	100.85	-13.82

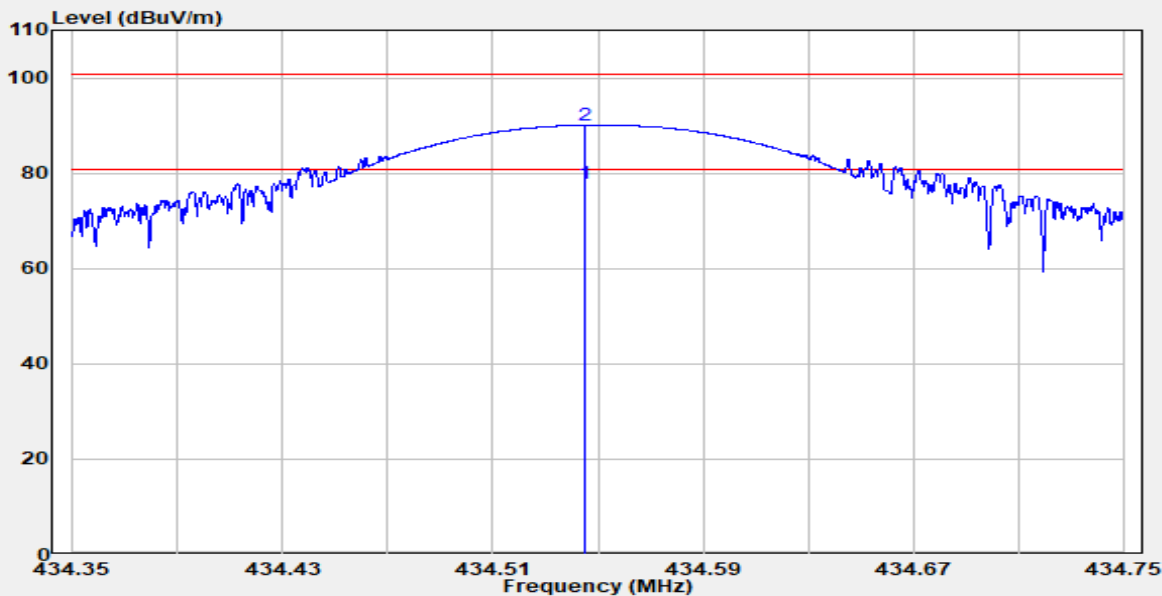
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
434.55	Average	84.96	-7.11	77.85	80.85	-3.00
434.55	Peak	97.17	-7.11	90.06	100.85	-10.79

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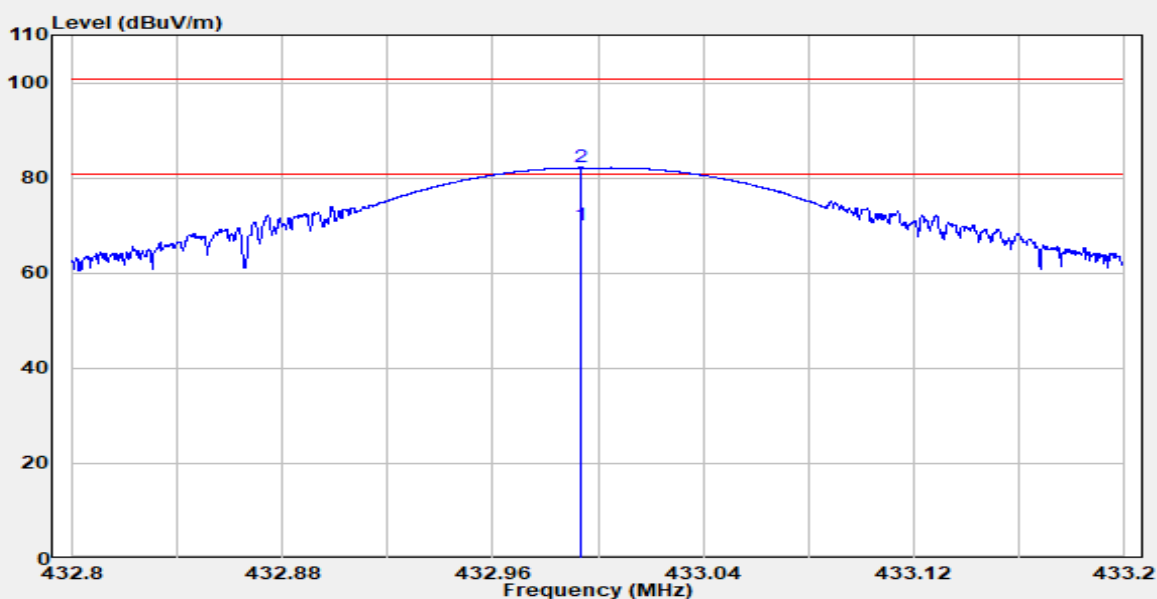
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FLEX 8PRO2

Report Number :TERF2503000833E2
Operation Mode :SRD
Test Frequency :433 MHz
Test Mode :Main
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-03-13
Temp./Humi. :23.1°C/56%
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
432.99	Average	77.13	-7.18	69.95	80.79	-10.84
432.99	Peak	89.34	-7.18	82.16	100.79	-18.63

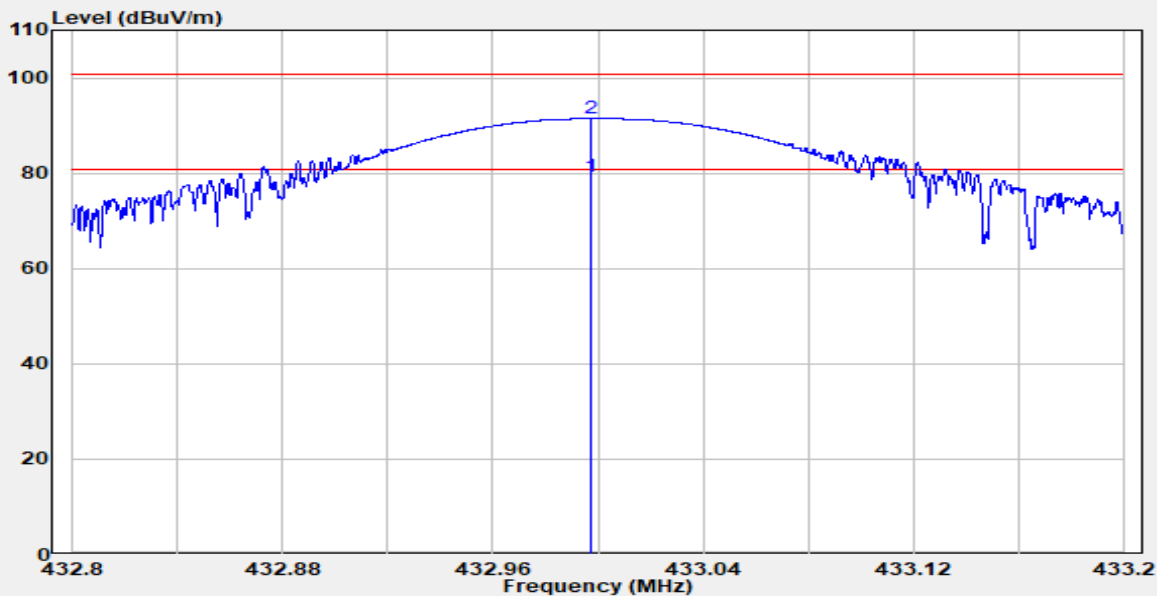
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



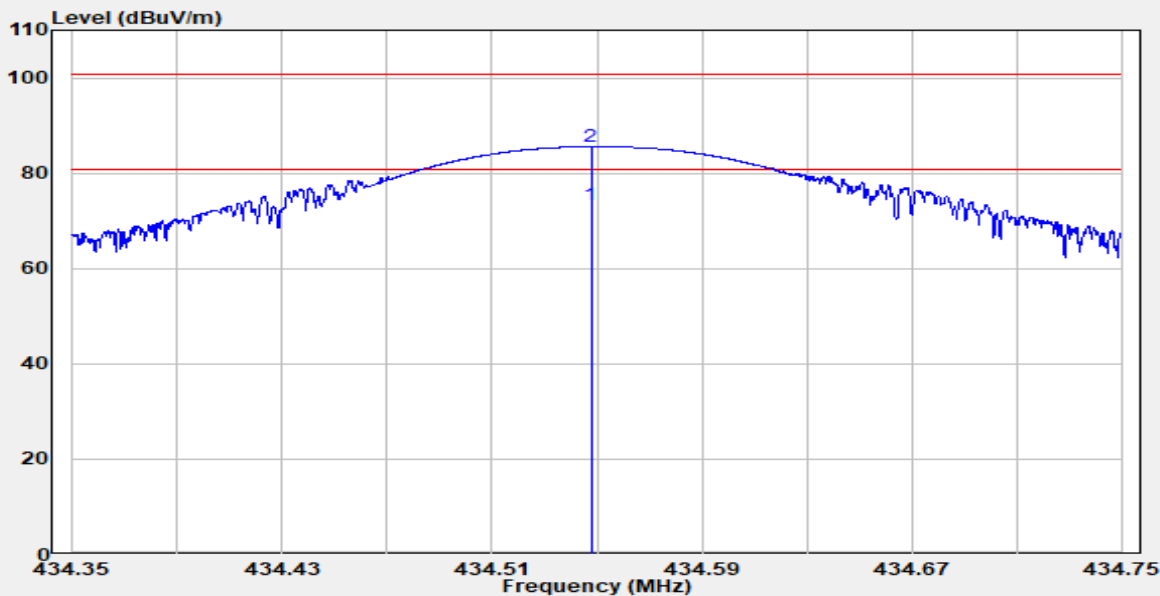
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
433.00	Average	86.39	-7.18	79.21	80.79	-1.58
433.00	Peak	98.60	-7.18	91.42	100.79	-9.37

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



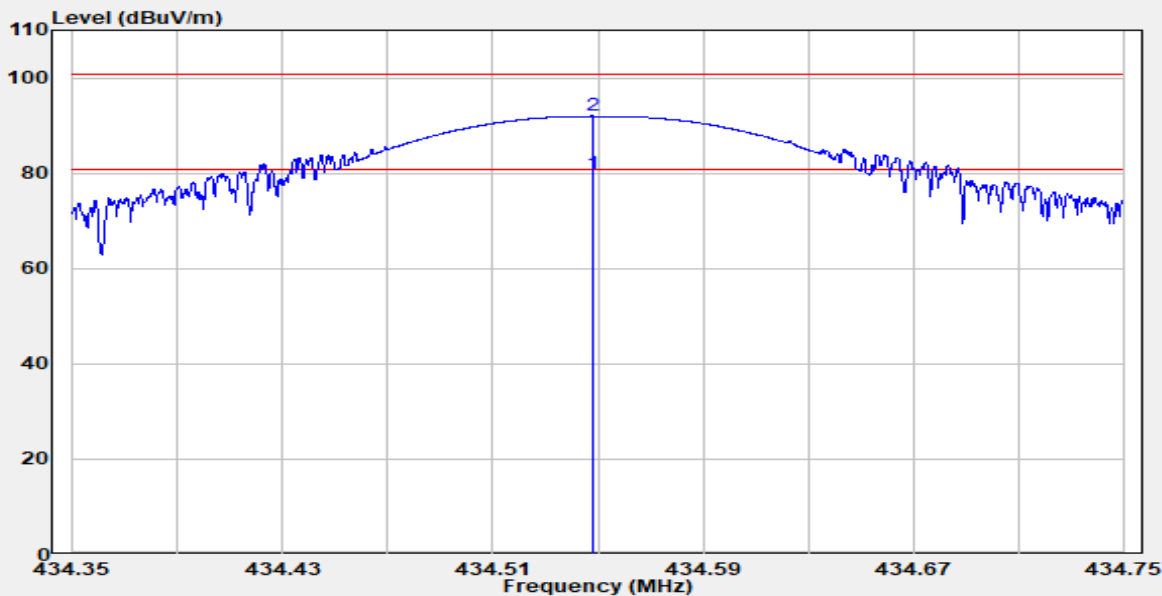
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
434.55	Average	80.47	-7.11	73.36	80.85	-7.49
434.55	Peak	92.68	-7.11	85.57	100.85	-15.28

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
434.55	Average	86.87	-7.11	79.76	80.85	-1.09
434.55	Peak	99.08	-7.11	91.97	100.85	-8.88

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12.8.2 Field Strength of Spurious Emission

Note: Average Actual = Peak Actual + Average Factor

FLEX 12PRO2

Report Number :TERF2503000833E2

Test Site :SAC C

Operation Mode :SRD

Test Date :2025-03-12

Test Frequency :433 MHz

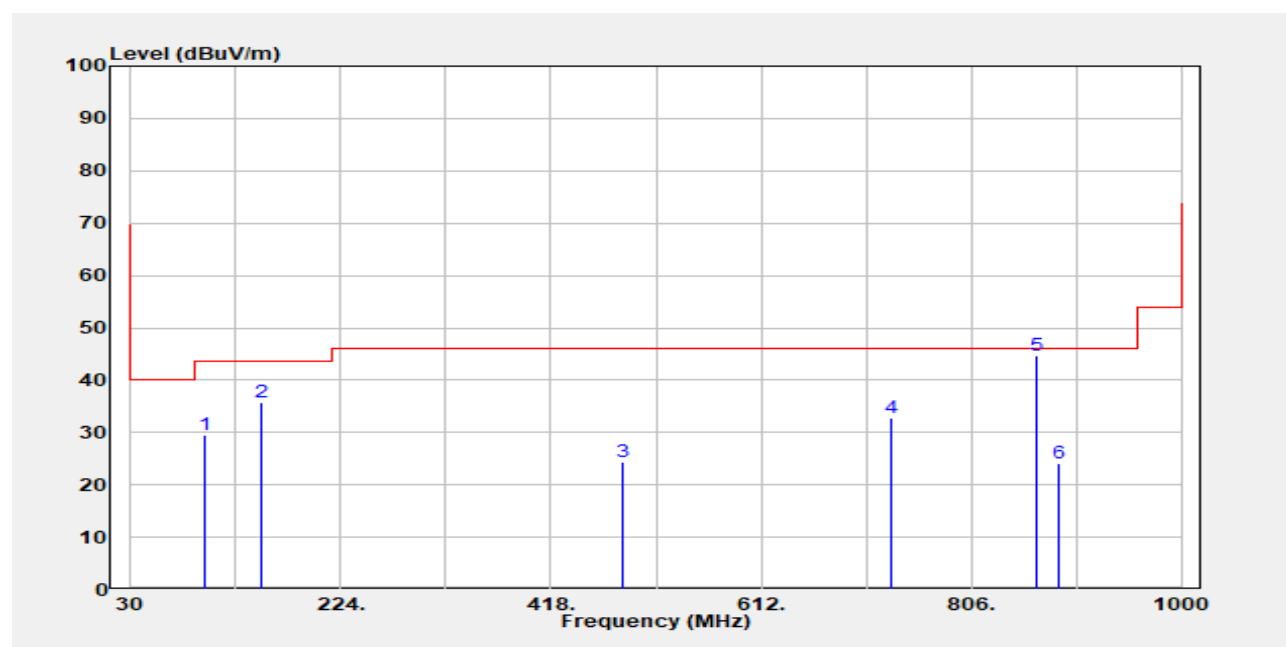
Temp./Humi. :25.1°C/52%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

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
97.92	Peak	46.63	-17.10	29.53	43.50	-13.97
149.67	Peak	47.71	-12.03	35.68	43.50	-7.82
484.76	Peak	30.65	-6.22	24.43	46.00	-21.57
732.84	Peak	34.27	-1.56	32.71	46.00	-13.29
866.00	QP	44.18	0.41	44.59	46.00	-1.41
887.12	QP	23.90	0.19	24.09	46.00	-21.91

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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

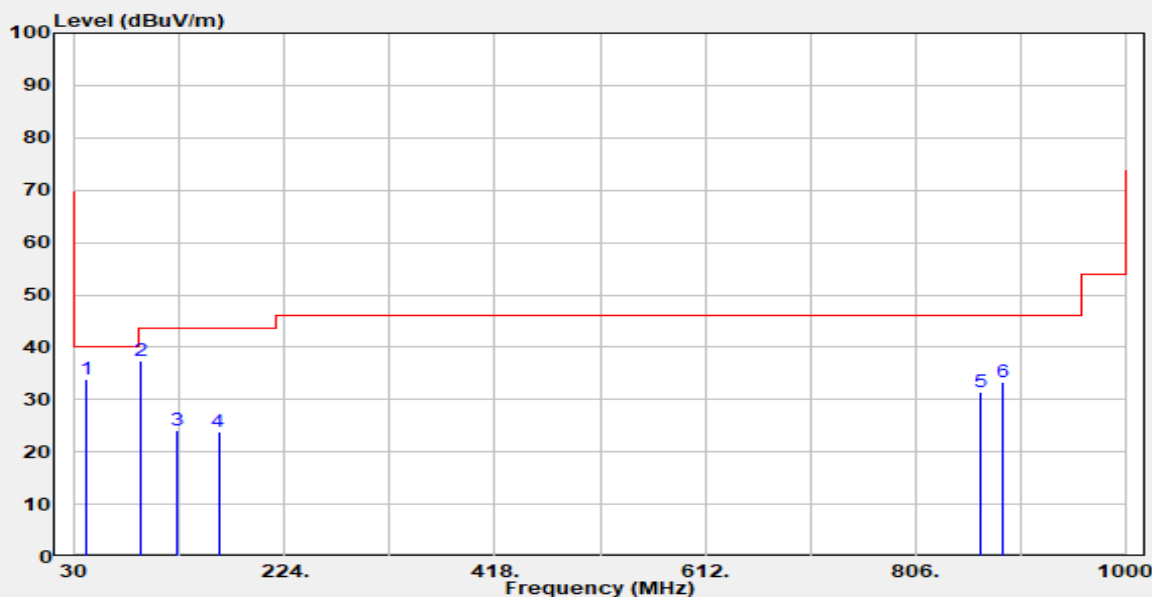
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



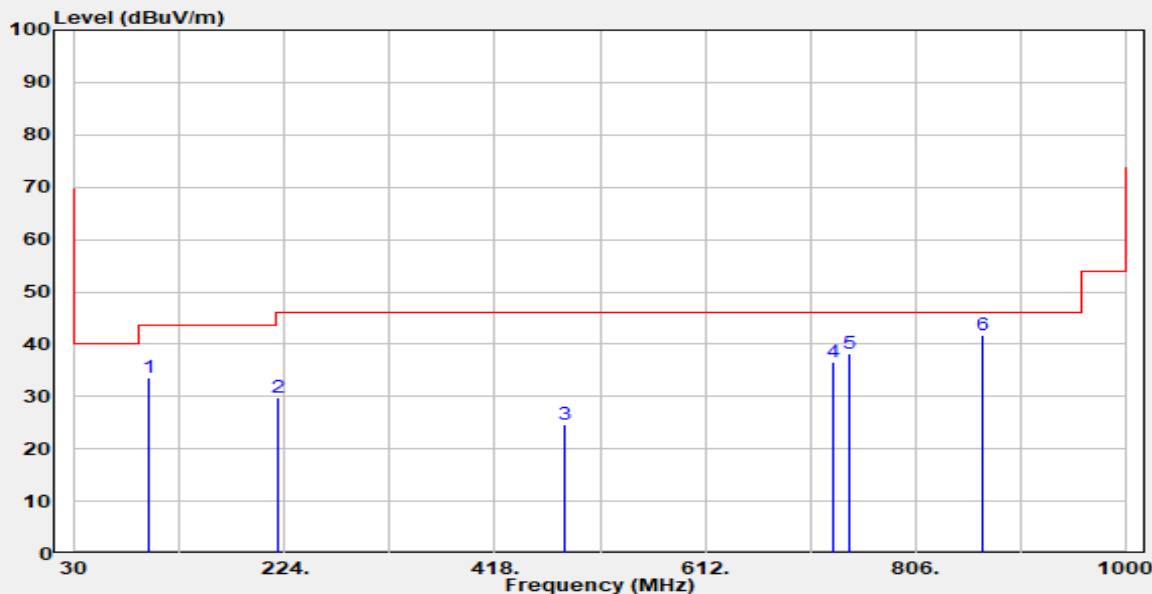
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
40.67	Peak	45.98	-12.19	33.79	40.00	-6.21
91.13	Peak	55.43	-18.05	37.38	43.50	-6.12
124.77	Peak	38.36	-14.20	24.16	43.50	-19.34
162.61	Peak	35.81	-11.96	23.85	43.50	-19.65
866.00	QP	30.90	0.41	31.31	46.00	-14.69
887.44	Peak	33.14	0.20	33.34	46.00	-12.66

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 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
97.92	Peak	50.64	-17.10	33.54	43.50	-9.96
217.27	Peak	44.95	-15.05	29.90	46.00	-16.10
481.85	Peak	30.84	-6.29	24.55	46.00	-21.45
730.57	Peak	38.09	-1.62	36.47	46.00	-9.53
745.78	Peak	39.40	-1.12	38.28	46.00	-7.72
869.10	QP	41.47	0.34	41.81	46.00	-4.19

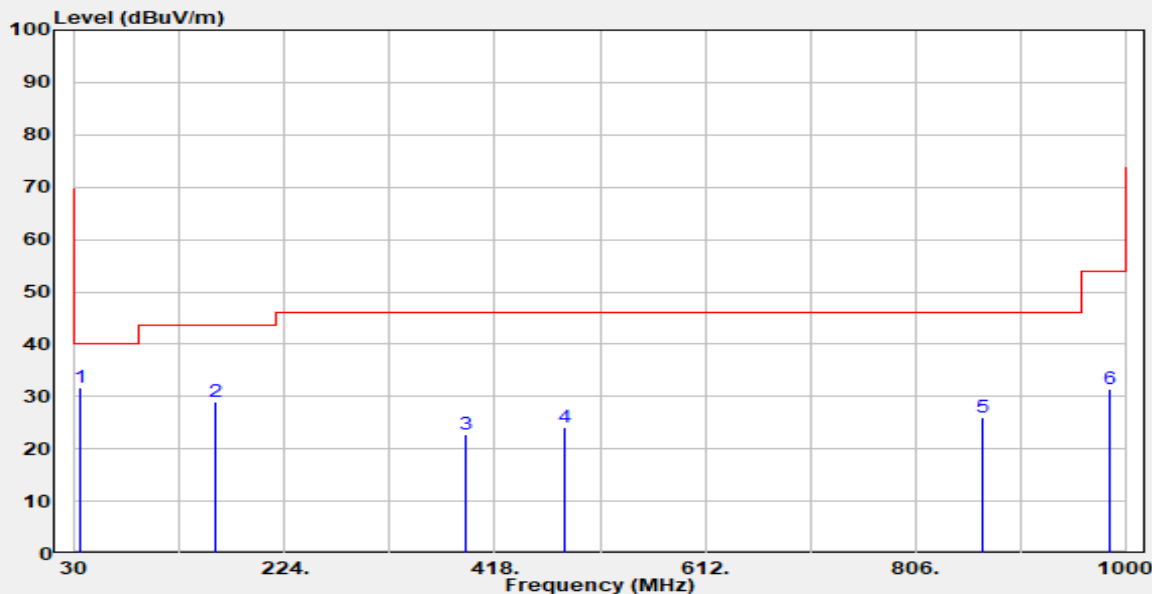
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Report Number :TERF2503000833E2
Operation Mode :SRD
Test Frequency :434.55 MHz
Test Mode :Tx
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2025-03-12
Temp./Humi. :25.1°C/52%
Antenna Pol. :Horizontal
Engineer :Alex Li



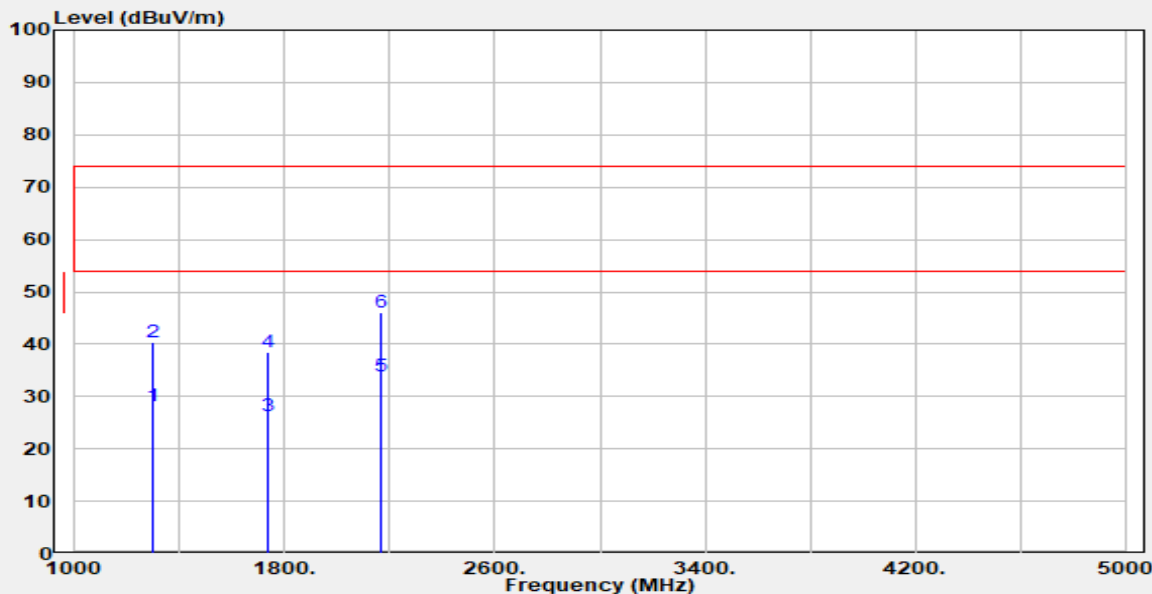
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
35.50	Peak	44.37	-12.74	31.63	40.00	-8.37
160.67	Peak	41.00	-11.94	29.06	43.50	-14.44
391.61	Peak	31.28	-8.45	22.83	46.00	-23.17
482.82	Peak	30.41	-6.27	24.14	46.00	-21.86
869.10	QP	25.69	0.34	26.03	46.00	-19.97
986.09	Peak	30.01	1.50	31.51	54.00	-22.49

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 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
1299.00	Average	34.62	-6.33	28.29	54.00	-25.71
1299.00	Peak	46.83	-6.33	40.50	74.00	-33.50
1732.00	Average	32.92	-6.54	26.38	54.00	-27.62
1732.00	Peak	45.13	-6.54	38.59	74.00	-35.41
2165.00	Average	37.77	-4.00	33.77	54.00	-20.23
2165.00	Peak	49.98	-4.00	45.98	74.00	-28.02

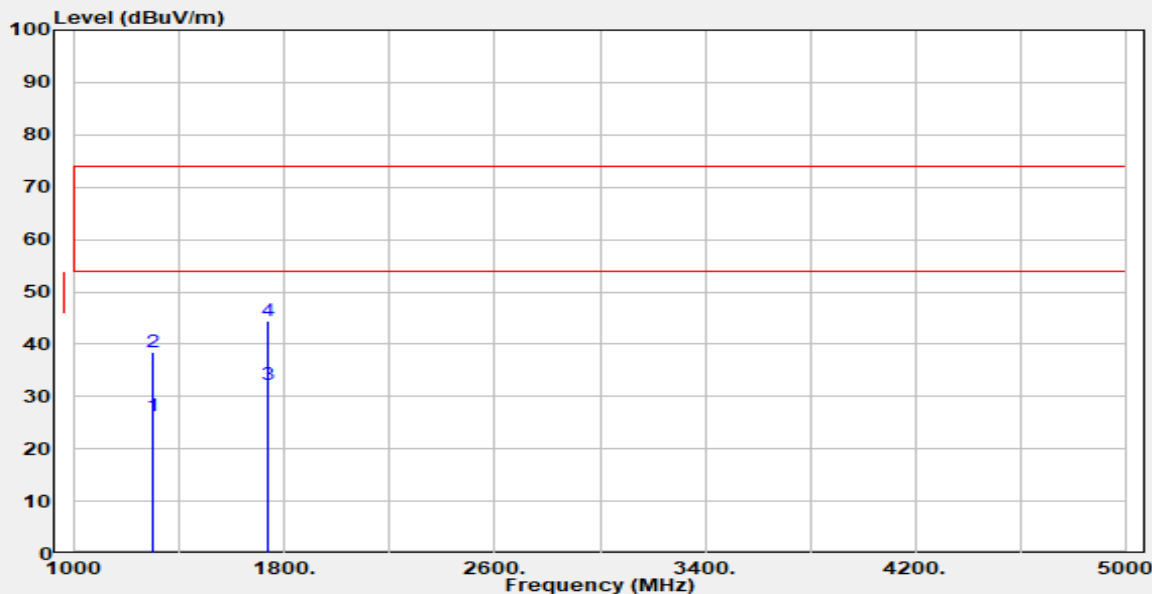
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



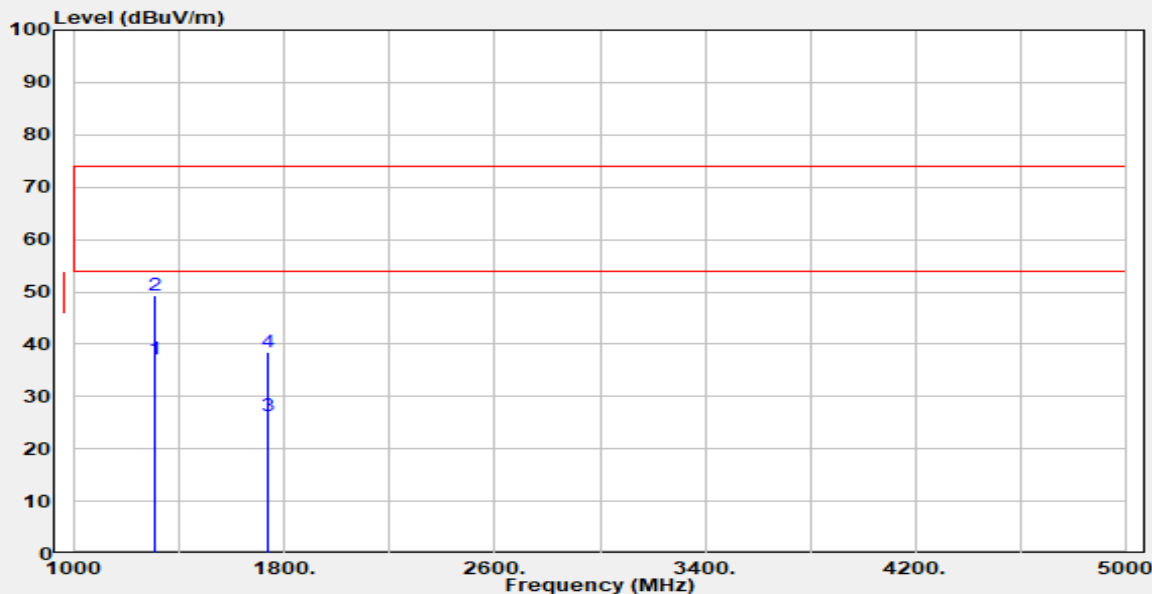
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1299.00	Average	32.71	-6.33	26.38	54.00	-27.62
1299.00	Peak	44.92	-6.33	38.59	74.00	-35.41
1732.00	Average	38.75	-6.54	32.21	54.00	-21.79
1732.00	Peak	50.96	-6.54	44.42	74.00	-29.58

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 Antenna Pol. :Vertical
 Engineer :Alex Li



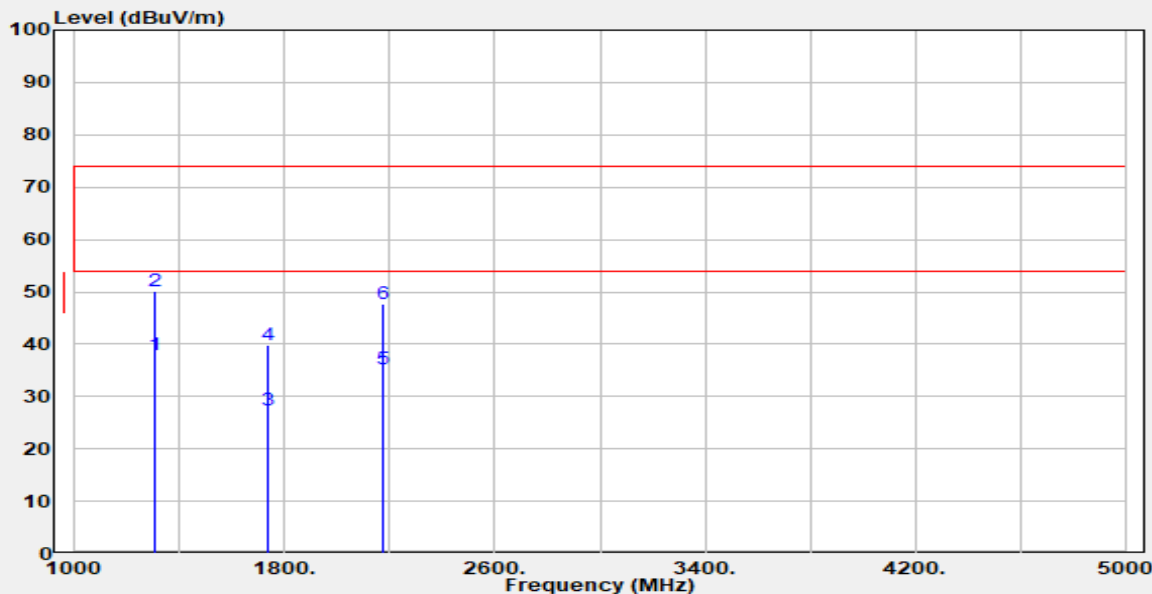
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1303.65	Average	43.29	-6.23	37.06	54.00	-16.94
1303.65	Peak	55.50	-6.23	49.27	74.00	-24.73
1738.20	Average	32.61	-6.42	26.19	54.00	-27.81
1738.20	Peak	44.82	-6.42	38.40	74.00	-35.60

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-12
 Temp./Humi. :25.1°C/52%
 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
1303.65	Average	44.24	-6.23	38.01	54.00	-15.99
1303.65	Peak	56.45	-6.23	50.22	74.00	-23.78
1738.20	Average	33.91	-6.42	27.49	54.00	-26.51
1738.20	Peak	46.12	-6.42	39.70	74.00	-34.30
2172.75	Average	39.30	-3.93	35.37	54.00	-18.63
2172.75	Peak	51.51	-3.93	47.58	74.00	-26.42

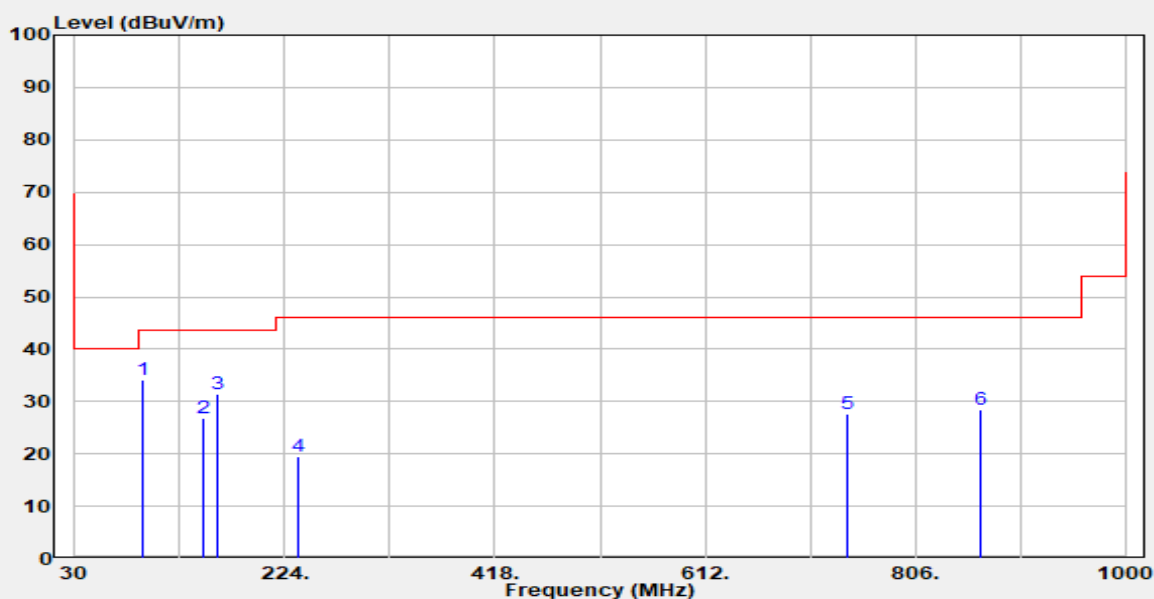
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FLEX 4PRO2

Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



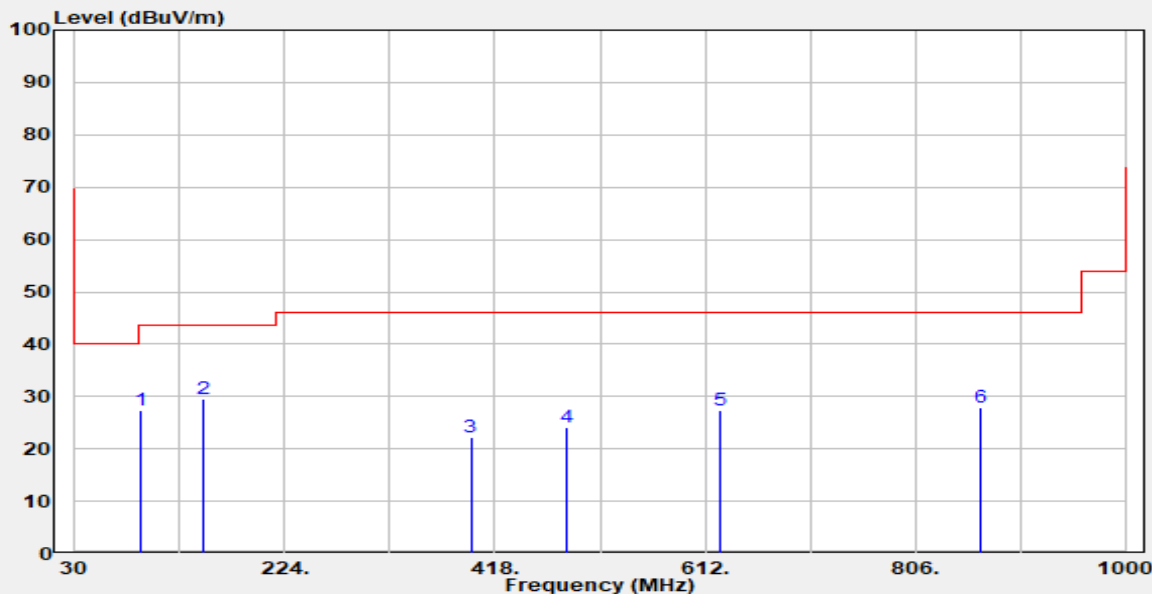
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
93.05	Peak	51.88	-17.73	34.15	43.50	-9.35
149.31	QP	38.90	-12.07	26.83	43.50	-16.67
160.95	QP	43.38	-11.94	31.44	43.50	-12.06
236.61	Peak	33.24	-13.60	19.64	46.00	-26.36
742.95	Peak	28.94	-1.20	27.74	46.00	-18.26
866.00	QP	27.97	0.41	28.38	46.00	-17.62

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
91.11	Peak	45.29	-18.05	27.24	43.50	-16.26
149.31	Peak	41.73	-12.07	29.66	43.50	-13.84
395.69	Peak	30.69	-8.35	22.34	46.00	-23.66
483.96	Peak	30.32	-6.24	24.08	46.00	-21.92
625.58	Peak	30.32	-3.07	27.25	46.00	-18.75
866.00	QP	27.60	0.41	28.01	46.00	-17.99

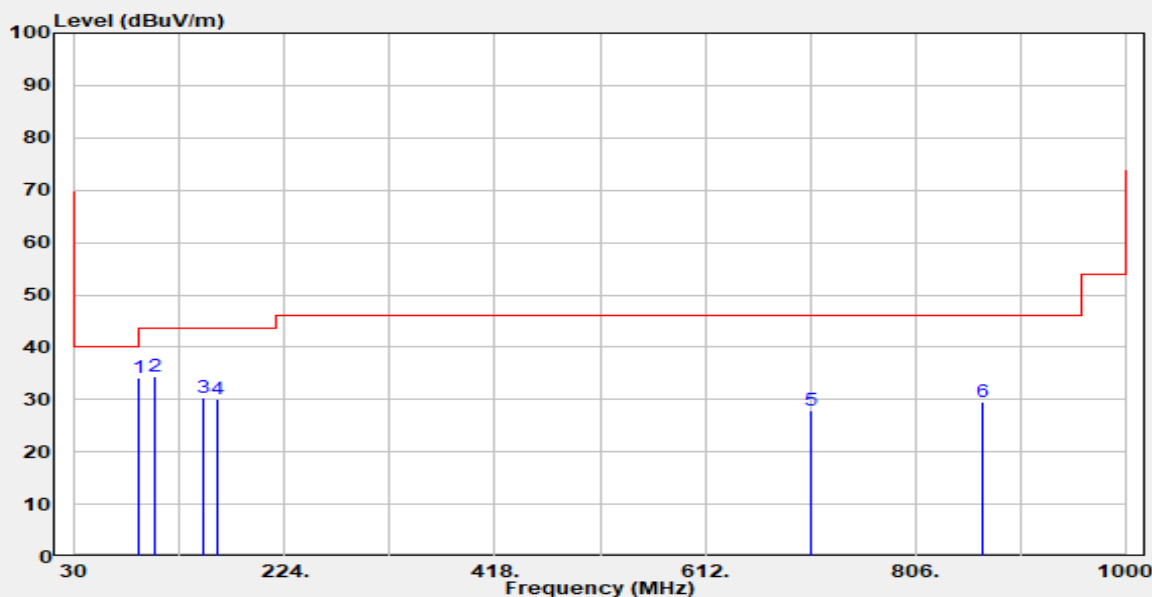
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



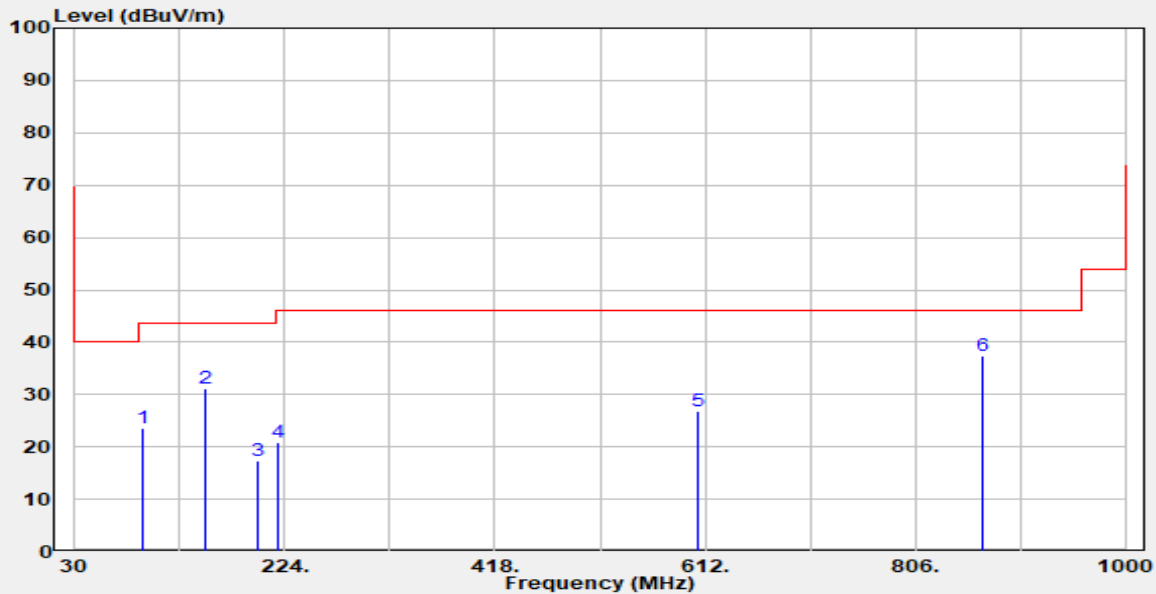
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
89.17	Peak	52.20	-18.16	34.04	43.50	-9.46
103.72	Peak	50.44	-16.08	34.36	43.50	-9.14
149.31	QP	42.34	-12.07	30.27	43.50	-13.23
160.95	Peak	41.98	-11.94	30.04	43.50	-13.46
709.97	Peak	30.28	-2.37	27.91	46.00	-18.09
869.10	QP	29.24	0.34	29.58	46.00	-16.42

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
92.08	Peak	41.65	-18.03	23.62	43.50	-19.88
150.28	Peak	43.10	-12.00	31.10	43.50	-12.40
199.75	Peak	32.58	-15.13	17.45	43.50	-26.05
217.21	Peak	35.98	-15.05	20.93	46.00	-25.07
605.21	Peak	30.34	-3.56	26.78	46.00	-19.22
869.10	QP	37.17	0.34	37.51	46.00	-8.49

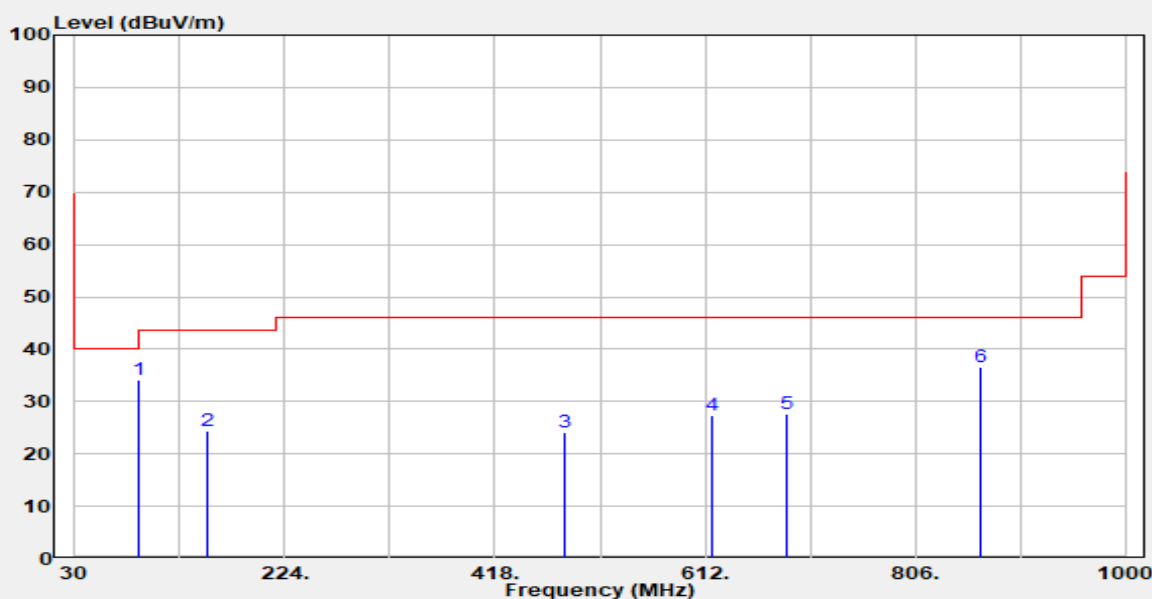
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FLEX 6PRO2

Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



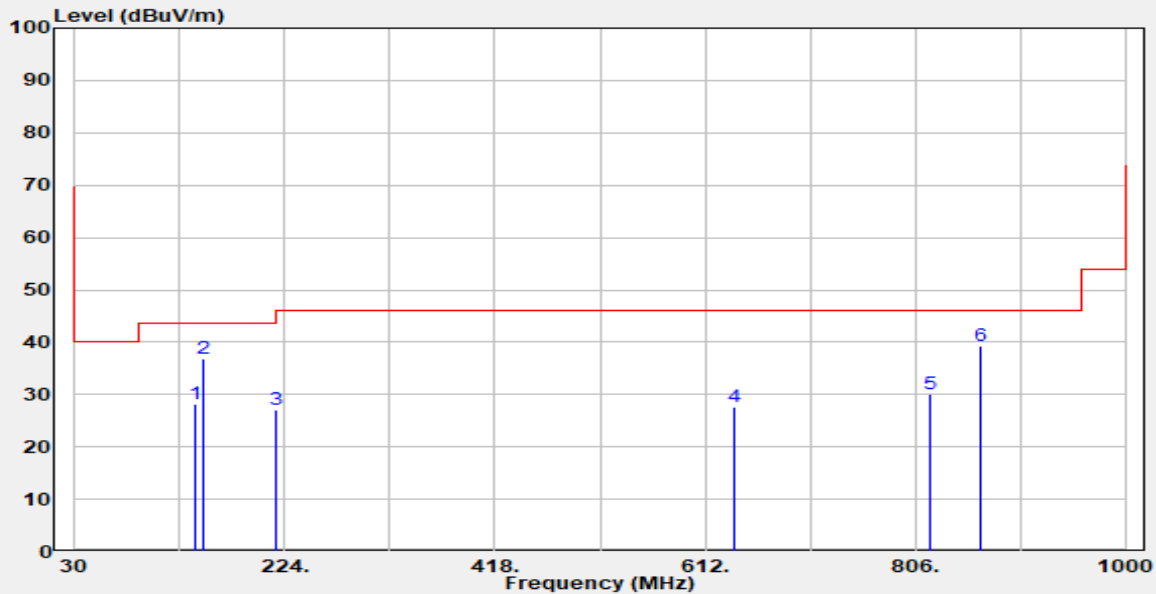
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
89.17	Peak	52.21	-18.16	34.05	43.50	-9.45
152.22	Peak	36.42	-12.01	24.41	43.50	-19.09
482.99	Peak	30.50	-6.27	24.23	46.00	-21.77
618.79	Peak	30.58	-3.09	27.49	46.00	-18.51
687.66	Peak	30.22	-2.57	27.65	46.00	-18.35
866.00	Peak	36.04	0.41	36.45	46.00	-9.55

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Horizontal
 Engineer :Alex Li



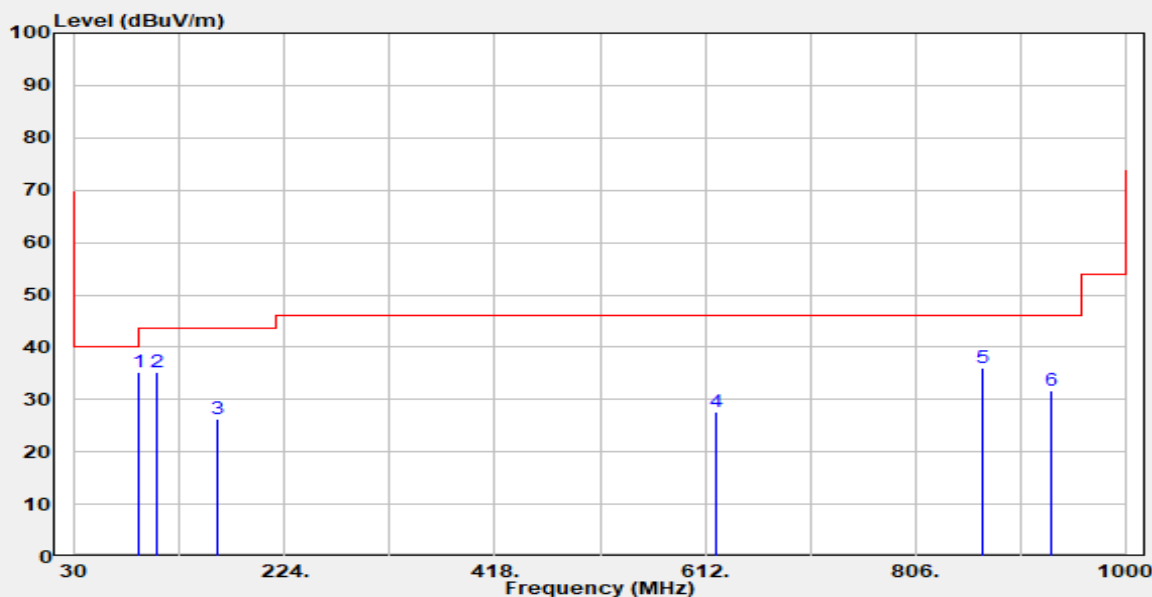
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
141.55	Peak	40.73	-12.51	28.22	43.50	-15.28
149.31	Peak	48.92	-12.07	36.85	43.50	-6.65
216.24	Peak	42.13	-15.06	27.07	46.00	-18.93
638.19	Peak	30.61	-3.08	27.53	46.00	-18.47
819.58	Peak	30.22	-0.09	30.13	46.00	-15.87
866.00	Peak	39.01	0.41	39.42	46.00	-6.58

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



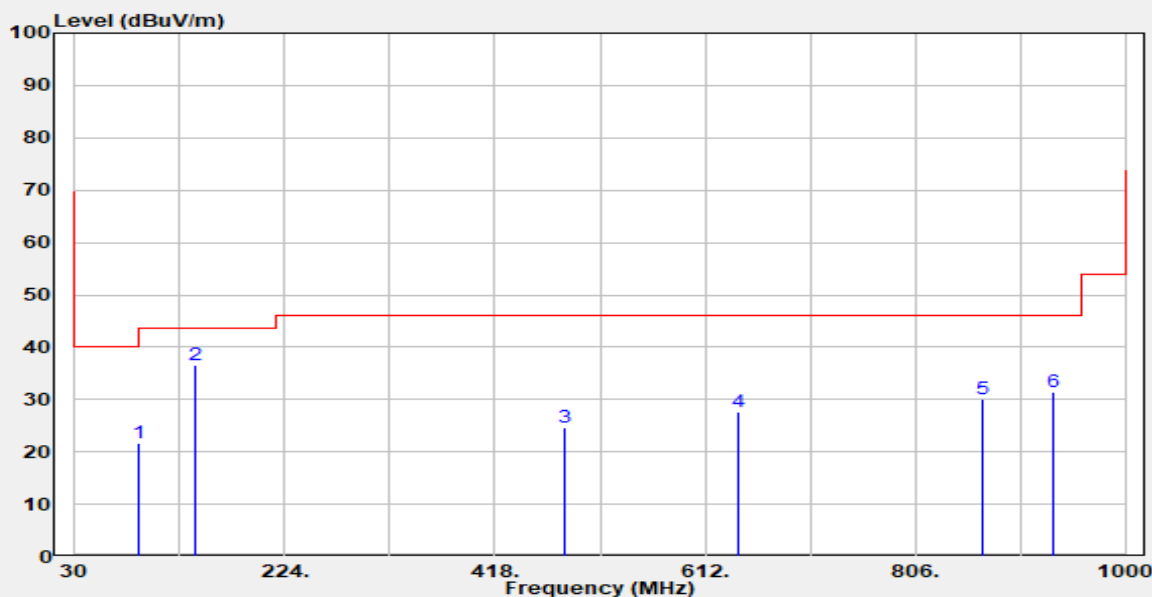
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
89.17	Peak	53.32	-18.16	35.16	43.50	-8.34
106.63	Peak	50.95	-15.63	35.32	43.50	-8.18
160.95	QP	38.31	-11.94	26.37	43.50	-17.13
622.67	Peak	30.75	-3.07	27.68	46.00	-18.32
869.10	Peak	35.66	0.34	36.00	46.00	-10.00
931.13	Peak	30.46	1.29	31.75	46.00	-14.25

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
89.17	Peak	39.84	-18.16	21.68	43.50	-21.82
141.55	Peak	49.20	-12.51	36.69	43.50	-6.81
482.02	Peak	30.92	-6.29	24.63	46.00	-21.37
642.07	Peak	30.57	-3.04	27.53	46.00	-18.47
869.10	QP	29.83	0.34	30.17	46.00	-15.83
934.04	Peak	29.97	1.36	31.33	46.00	-14.67

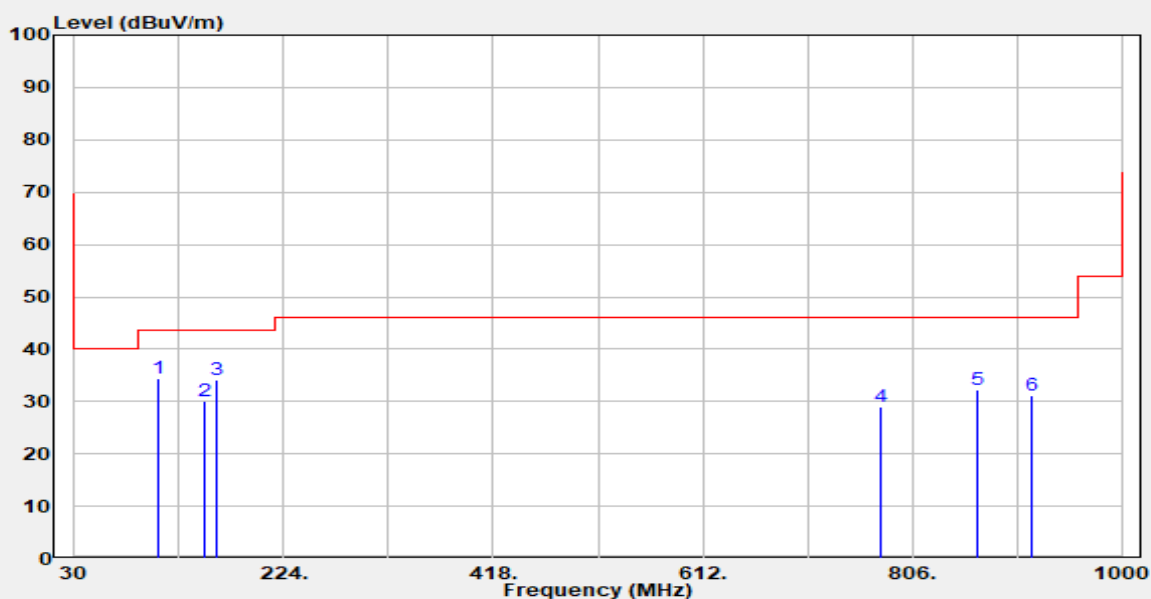
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FLEX 8PRO2

Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



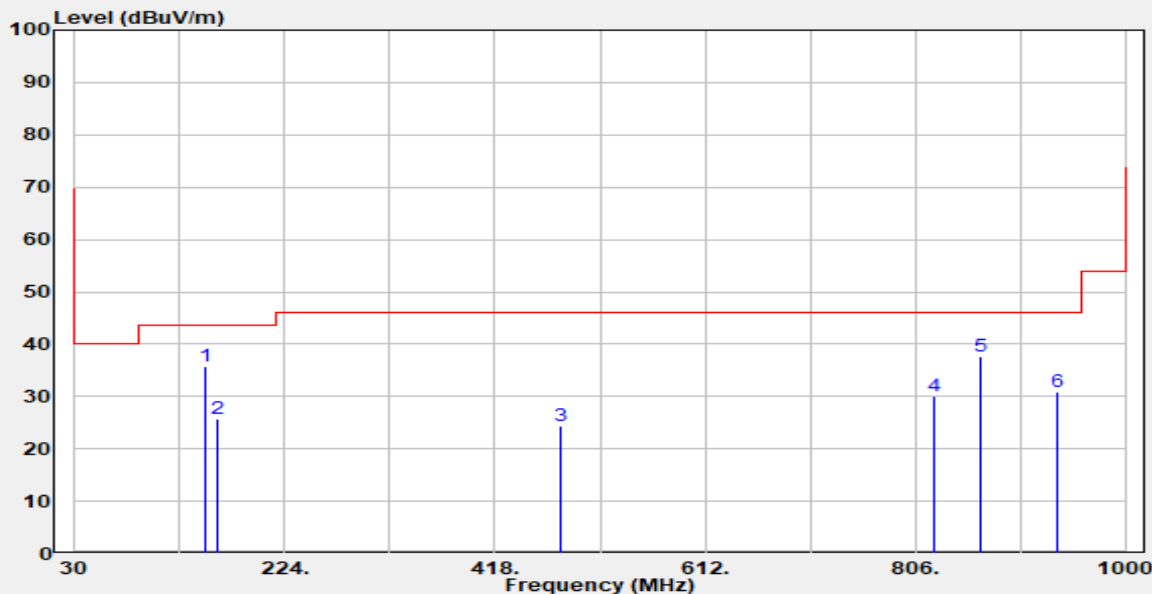
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
107.60	Peak	49.99	-15.49	34.50	43.50	-9.00
150.28	QP	42.12	-12.00	30.12	43.50	-13.38
160.95	Peak	46.20	-11.94	34.26	43.50	-9.24
776.90	Peak	29.69	-0.67	29.02	46.00	-16.98
866.00	Peak	31.80	0.41	32.21	46.00	-13.79
917.55	Peak	30.21	0.96	31.17	46.00	-14.83

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :433 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
150.28	Peak	47.78	-12.00	35.78	43.50	-7.72
160.95	Peak	37.79	-11.94	25.85	43.50	-17.65
478.14	Peak	30.80	-6.38	24.42	46.00	-21.58
823.46	Peak	30.14	-0.12	30.02	46.00	-15.98
866.00	QP	37.30	0.41	37.71	46.00	-8.29
936.95	Peak	29.65	1.30	30.95	46.00	-15.05

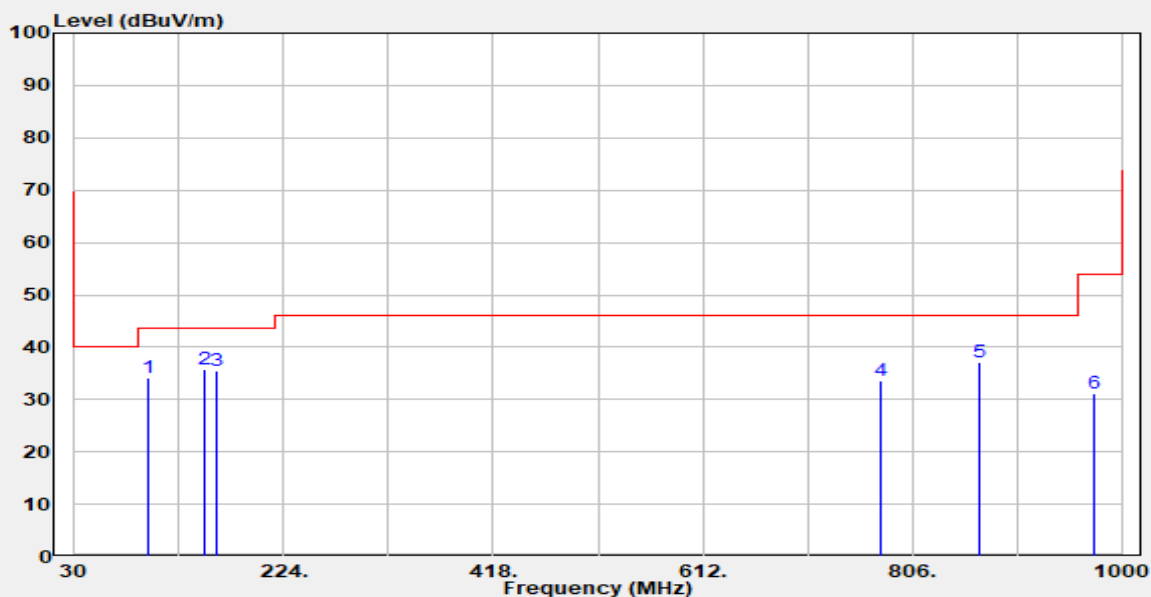
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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 Antenna Pol. :Vertical
 Engineer :Alex Li



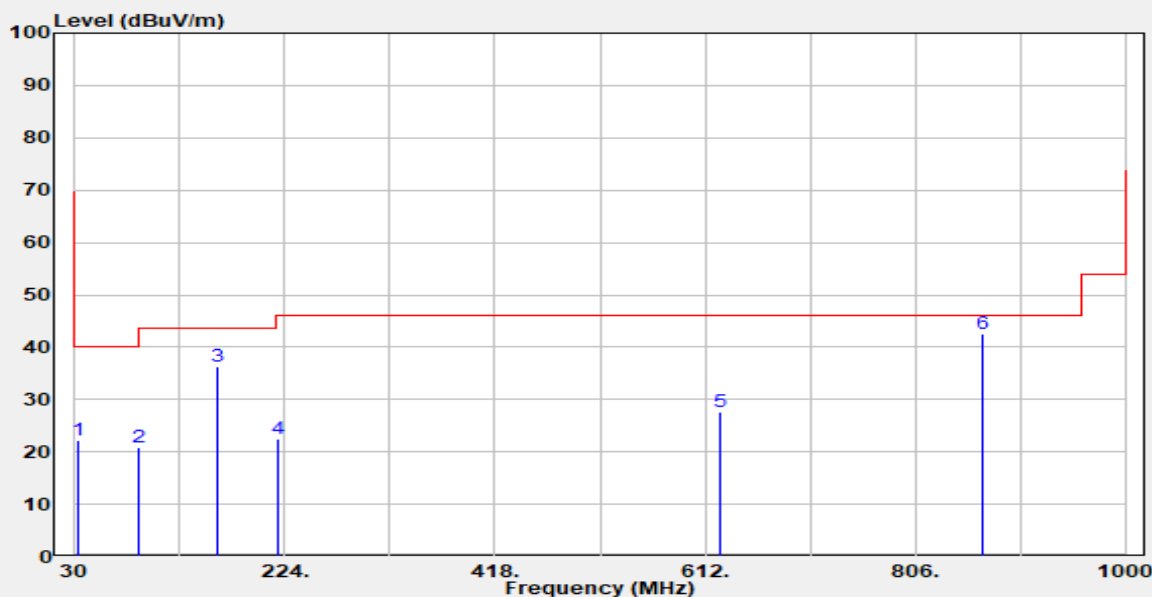
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
97.90	Peak	51.14	-17.10	34.04	43.50	-9.46
150.28	QP	47.80	-12.00	35.80	43.50	-7.70
160.95	Peak	47.37	-11.94	35.43	43.50	-8.07
776.90	Peak	34.20	-0.67	33.53	46.00	-12.47
869.10	Peak	36.88	0.34	37.22	46.00	-8.78
973.81	Peak	29.46	1.64	31.10	54.00	-22.90

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Report Number :TERF2503000833E2
 Operation Mode :SRD
 Test Frequency :434.55 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2025-03-13
 Temp./Humi. :23.1°C/56%
 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
32.91	Peak	35.51	-13.16	22.35	40.00	-17.65
89.17	Peak	39.08	-18.16	20.92	43.50	-22.58
160.95	Peak	48.34	-11.94	36.40	43.50	-7.10
217.21	Peak	37.53	-15.05	22.48	46.00	-23.52
626.55	Peak	30.81	-3.07	27.74	46.00	-18.26
869.10	QP	42.33	0.34	42.67	46.00	-3.33

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13 ANTENNA REQUIREMENT

13.1 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.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

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Federal Communications Commission
Authorization and Evaluation Division

Note regarding application for certification of FCC ID: R4UARC FLEXPRO2

ADVANCED RADIOTECH CORPORATION control products are used in industrial applications where safe operation is critical. As such, all compatible receiver radio products come equipped with safety features to prevent un-commanded motion of the equipment being controlled. Any un-intended motion could result in serious injury or even death to others. For instance, if the operator moves out of radio range, the controlled machine stops receiving messages, and a safety relay opens to de-power the equipment being controlled remotely. Without polling in this application, the equipment remains powered when the radio link is lost, and serious injury or death could result.

Typical international industry standards call for radio-controlled equipment to be powered by redundant emergency stop safety relays¹. These relays must remove power from the equipment being controlled within a max. of 2 seconds of no communication with the controlling device¹. In order to maintain this communication link, polling of the link status is required. ARC wishes to make use of 15.231(a)(3) and 15.231(a)(4) which allows operation during the pendency of the alarm condition in order to prevent serious injury or death to others.

Sincerely,

Tom Jou

ADVANCED RADIOTECH CORPORATION

Phone: 886-7-812-8112

¹ BS EN 13557:2003+A2:2008 annex C.3

15 PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

16 PHOTOGRAPHS OF EUT

Please refer to the attached file (EUT Photo)

~ End of Report ~

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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

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