



FCC - TEST REPORT

Report Number : **68.950.19.2988.01** Date of Issue: November 13, 2019

Model : ED158S

Product Type : radar sensor

Applicant : Shenzhen Easydetek Technology Co.Ltd

Address : 6/F Fuyuan Industrial&commercial Building, Hangcheng Industrial Park, Baoan Dist Shenzhen City, Guangdong PR. China

Manufacture : Shenzhen Easydetek Technology Co.Ltd

Address : 6/F Fuyuan Industrial&commercial Building, Hangcheng Industrial Park, Baoan Dist Shenzhen City, Guangdong PR. China

Test Result : Positive Negative

Total pages including Appendices : 27

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

FCC Registration Number: 514049

Telephone: 86 755 8828 6998
Fax: 86 755 8828 5299

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	radar sensor
Model no.:	ED158S
FCC ID:	2ARDMED158S
Options and accessories:	NIL
Ratings:	6-12VDC
RF Transmission Frequency:	5750MHz - 5870MHz
Modulation:	Unmodulated
Antenna Type:	planar antenna
Antenna Gain:	4.49dBi
Description of the EUT:	The product is a radar sensor module that operated at 5.8GHz, The TX and RX range is 5750MHz-5870MHz.

Auxiliary Equipment Used during Test:

Because the module do not have shielding, so it was tested with a host for this limited modular approve application, the host information was used of the modular as below:

Manufacture: Foshan Electrical & Lighting Co., Ltd.

Product name: ceiling light

model name: 24W



4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2018 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C 15.249					
Test Condition	Pages	Test Site	Test Result		
			Pass	Fail	N/A
15.207 Conducted emission AC power port	9	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.205(a), §15.209(a), §15.249(a), §15.249(c) Field strength of emissions and Restricted bands	12	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.249(d) Out of band emissions	17	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC §15.215(c) 20dB bandwidth	22	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.203 Antenna requirement	See note 1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remark 1: N/A- Not Applicable;

Note 1: The EUT used a planar antenna, which gain is 4.49 dBi. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ARDMED158S complies with Section 15.205, 15.209, 15.249 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

The Equipment Under Test

- **Fulfills** the general approval requirements.

- **Does not** fulfill the general approval requirements.

Sample Received Date: September 24, 2019

Testing Start Date: October 10, 2019

Testing End Date: October 31, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:

Tested by:



John Zhi

Section Manager



Moon Xiong

Project Engineer



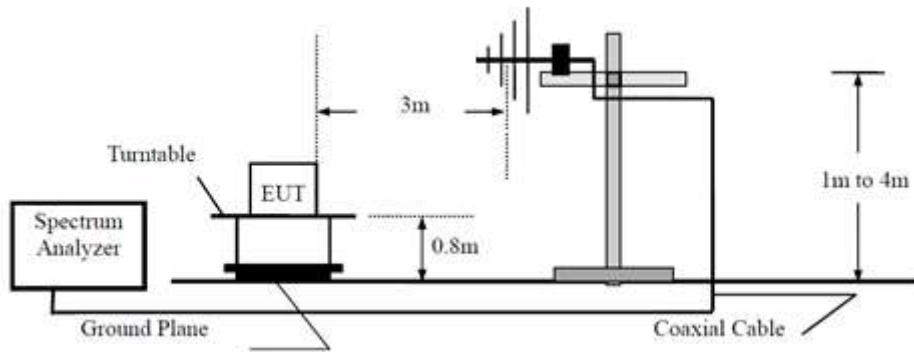
Louise Liu

Test Engineer

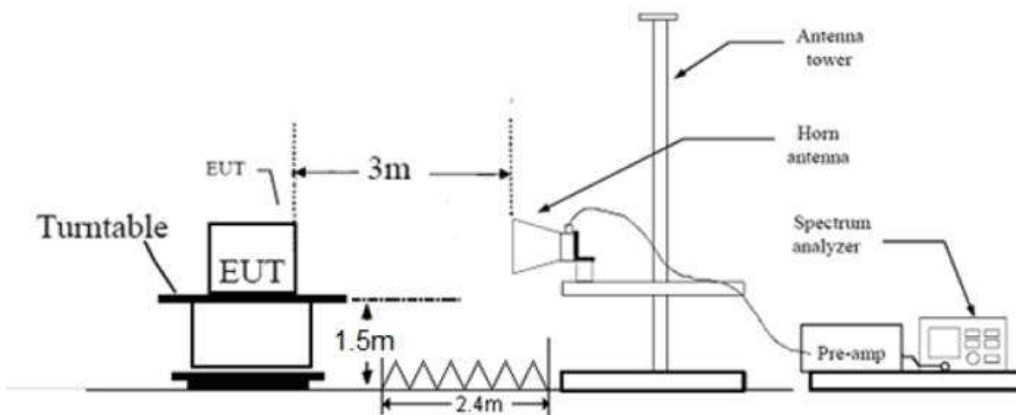
7 Test setups

7.1 Radiated test setups

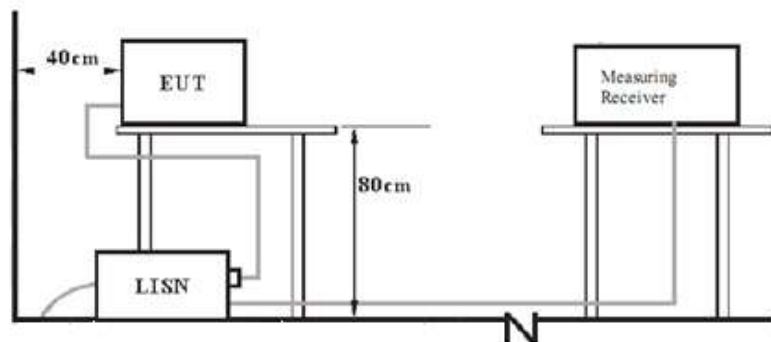
Below 1GHz



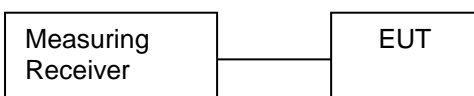
Above 1GHz



7.2 AC Power Line Conducted Emission test setups



7.3 Conducted RF test setups



8 Technical Requirement

8.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

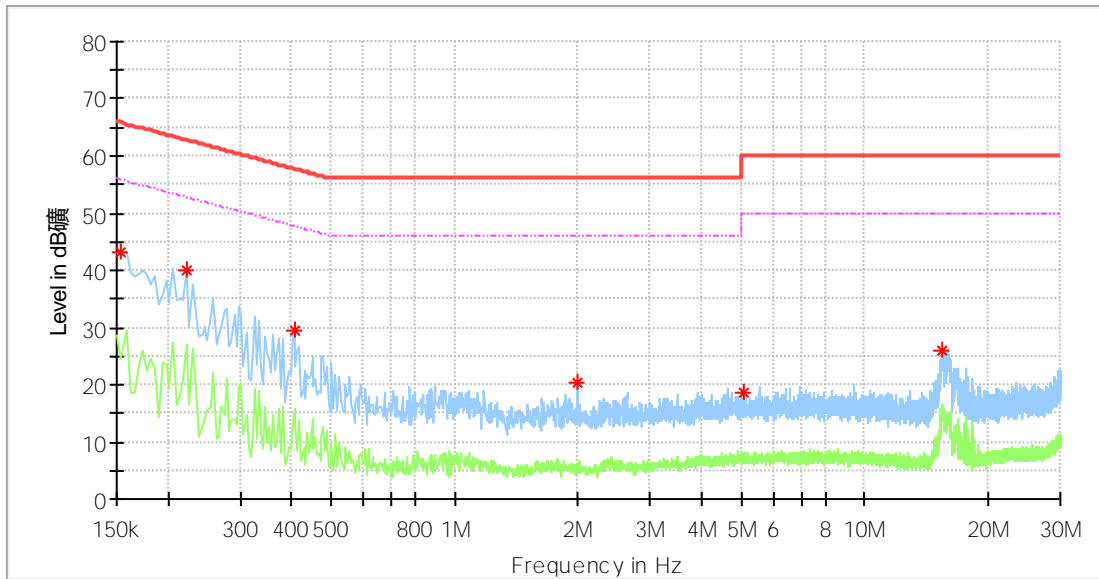
Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency.

Conducted Emission

Product Type : radar sensor
M/N : ED158S
Operating Condition : Normal working with transmitting
Test specification : Positive
Comment : AC 120V/60Hz
Remark :



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	43.33	---	65.78	22.45	L1	10.2
0.222000	40.08	---	62.74	22.66	L1	10.2
0.406000	29.43	---	57.73	28.30	L1	10.3
1.990000	20.34	---	56.00	35.66	L1	10.3
5.046000	18.66	---	60.00	41.34	L1	10.4
15.474000	26.13	---	60.00	33.87	L1	10.8

Remark :

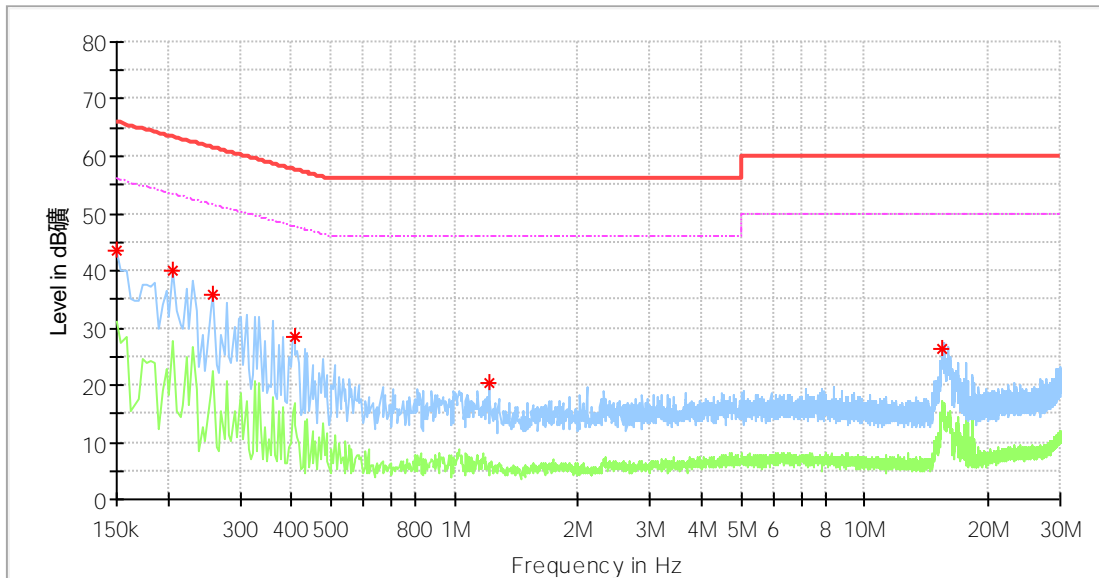
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : radar sensor
M/N : ED158S
Operating Condition : Normal working with transmitting
Test specification : Negative
Comment : AC 120V/60Hz
Remark :



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	43.66	---	66.00	22.34	N	10.5
0.206000	40.02	---	63.37	23.35	N	10.2
0.258000	35.92	---	61.50	25.57	N	10.2
0.406000	28.34	---	57.73	29.39	N	10.3
1.214000	20.47	---	56.00	35.53	N	10.3
15.470000	26.40	---	60.00	33.60	N	10.9

Remark :

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

8.2 Field strength of emissions and Restricted bands

Test Method

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3-meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW \geq RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (duty cycle \geq 98%) for peak detection at frequency above 1GHz
- 4: If the emission is pulsed (duty cycle $<$ 98%), modify the unit for continuous operation: use the settings shown above, then correct the reading by subtracting the peak to average duty cycle correction factor $20\log(\text{duty cycle})$, derived from the appropriate duty cycle calculation.

Limits

According to §15.249 (a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

According to §15.249 (c), Field strength limits are specified at a distance of 3 meters. According to §15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation. According to §15.205 Unwanted emissions falling into restricted bands in §15.205 (a) shall comply with the limits specified in §15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Field strength of emissions and Restricted bands

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

EUT: radar sensor
M/N: ED158S
Operating Condition: Tx; 5750MHz

Below 1GHz

Frequency (MHz)	Emission Level (dB μ V/m)	E-Field Polarity	Limits (dB μ V/m)	Margin (dB)	Value Type	Corrector factor (dB)	Emission Type
60.770556	30.71	H	40.0	9.29	QP	-26.3	Spurious
63.411111	36.66	V	40.0	3.34	QP	-26.9	Spurious

Above 1GHz

Frequency (MHz)	Maximum Emission (dB μ V/m)	E-Field Polarity	Limits (dB μ V/m)	Margin (dB)	Value Type	Corrector factor (dB)	Emission Type
5750.500000	79.93	H	114.00	34.07	Peak	2.7	Fundamental
5750.500000	78.21	H	94.00	32.35	AV	2.7	Fundamental
5750.500000	74.77	V	114.00	39.23	Peak	2.7	Fundamental
5750.500000	73.46	V	94.00	37.82	AV	2.7	Fundamental
11500.718750	50.16	H	74.00	23.84	Peak	10.2	Spurious
11500.718750	46.56	V	74.00	27.44	Peak	10.2	Spurious
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Remark:

Peak to average duty cycle correction factor = $20\log(\text{dutycycle})$, dutycycle=100%

Remark:

1: Data of measurement within this frequency range shown "/" in the table above means the reading of emissions are attenuated more than

20dB below the permissible limits or the field strength is too small to be measured.

2: "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

3: AV Emission Level= Peak emission Level+ $20\log(\text{dutycycle})$ (for duty cycle<98%)

4: PK Emission = Reading Level + Correction Factor

AV Emission = Average Reading Level + Correction Factor (for duty cycle \geq 98%)

Correction Factor=Antenna Factor + Cable Loss (For Below 1GHz)

Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain (For Above 1GHz)

(The Reading Level is recorded by software which is not shown in the sheet)

Field strength of emissions and Restricted bands

EUT: radar sensor

M/N: ED158S

Operating Condition: Tx; 5800MHz

Above 1GHz

Frequency (MHz)	Maximum Emission (dB μ V/m)	E-Field Polarity	Limits (dB μ V/m)	Margin (dB)	Value Type	Corrector factor (dB)	Emission Type
5800.562500	78.84	H	114.00	35.16	Peak	2.9	Fundamental
5800.562500	77.23	H	94.00	33.55	AV	2.9	Fundamental
5800.562500	76.29	V	114.00	37.71	Peak	2.9	Fundamental
5800.562500	75.01	V	94.00	36.52	AV	2.9	Fundamental
11601.093750	47.91	H	74.00	26.09	Peak	10.4	Spurious
11601.093750	46.29	V	74.00	27.71	Peak	10.4	Spurious
--	--	--	--	--	--	--	--

Remark:

Peak to average duty cycle correction factor = $20\log(\text{dutycycle})$, dutycycle=100%

Remark:

1: Data of measurement within this frequency range shown “/” in the table above means the reading of emissions are attenuated more than

20dB below the permissible limits or the field strength is too small to be measured.

2: “*” means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

3: AV Emission Level= Peak emission Level+ $20\log(\text{dutycycle})$ (for duty cycle<98%)

4: PK Emission = Reading Level + Correction Factor

AV Emission = Average Reading Level + Correction Factor (for duty cycle \geq 98%)

Correction Factor=Antenna Factor + Cable Loss (For Below 1GHz)

Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain (For Above 1GHz)

(The Reading Level is recorded by software which is not shown in the sheet)



Field strength of emissions and Restricted bands

EUT: radar sensor
 M/N: ED158S
 Operating Condition: Tx; 5870MHz

Above 1GHz

Frequency (MHz)	Maximum Emission (dBµV)	E-Field Polarity	Limits (dBµV/m)	Margin (dB)	Value Type	Corrector factor (dB)	Emission Type
5870.500000	79.45	H	114.00	34.55	Peak	3.5	Fundamental
5870.500000	78.02	H	94.00	33.22	AV	3.5	Fundamental
5870.500000	80.06	V	114.00	30.94	Peak	3.5	Fundamental
5870.500000	78.73	V	94.00	15.27	AV	3.5	Fundamental
11741.000000	53.12	H	74.00	20.88	Peak	11.1	Spurious
11741.000000	48.99	V	74.00	25.01	Peak	11.1	Spurious
--	--	--	--	--	--	--	--

Remark:
 Peak to average duty cycle correction factor =20log(dutycycle), dutycycle=100%

Remark:

1: Data of measurement within this frequency range shown “/” in the table above means the reading of emissions are attenuated more than

20dB below the permissible limits or the field strength is too small to be measured.

2: “*” means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

3: AV Emission Level= Peak emission Level+20log(dutycycle) (for duty cycle<98%)

4: PK Emission = Reading Level + Correction Factor

AV Emission = Average Reading Level + Correction Factor (for duty cycle≥98%)

Correction Factor=Antenna Factor + Cable Loss (For Below 1GHz)

Correction Factor = Antenna Factor + Cable Loss- Amplifier Gain (For Above 1GHz)

(The Reading Level is recorded by software which is not shown in the sheet)

8.3 Out of Band Emissions

Test Method

- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limits

According to §15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Out of Band Emissions

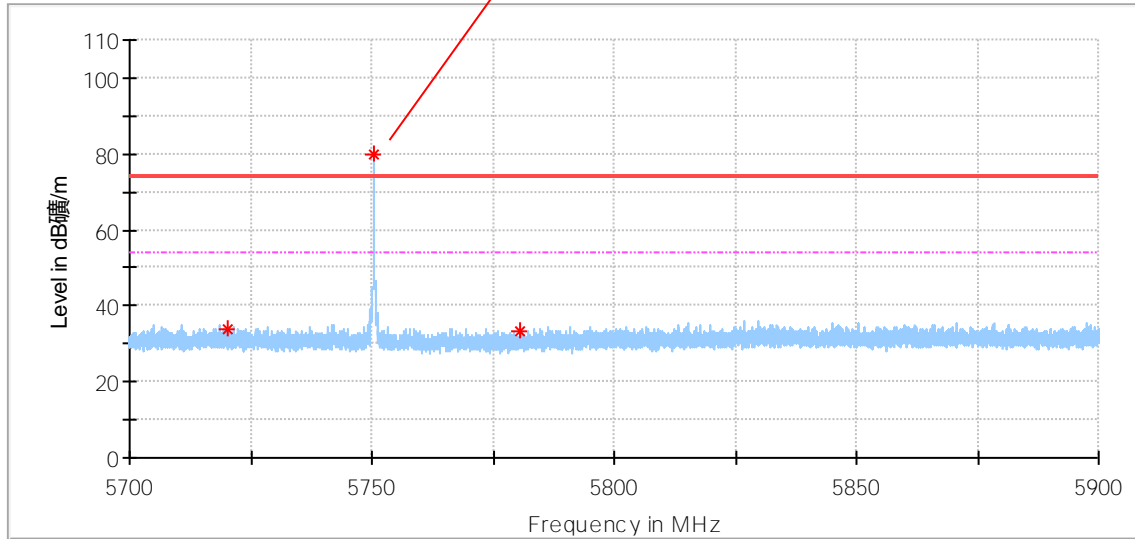
EUT: radar sensor

M/N: ED158S

Operating Condition: Tx; 5750MHz

Polarization: Horizontal

Fundamental frequency



Critical Freqs

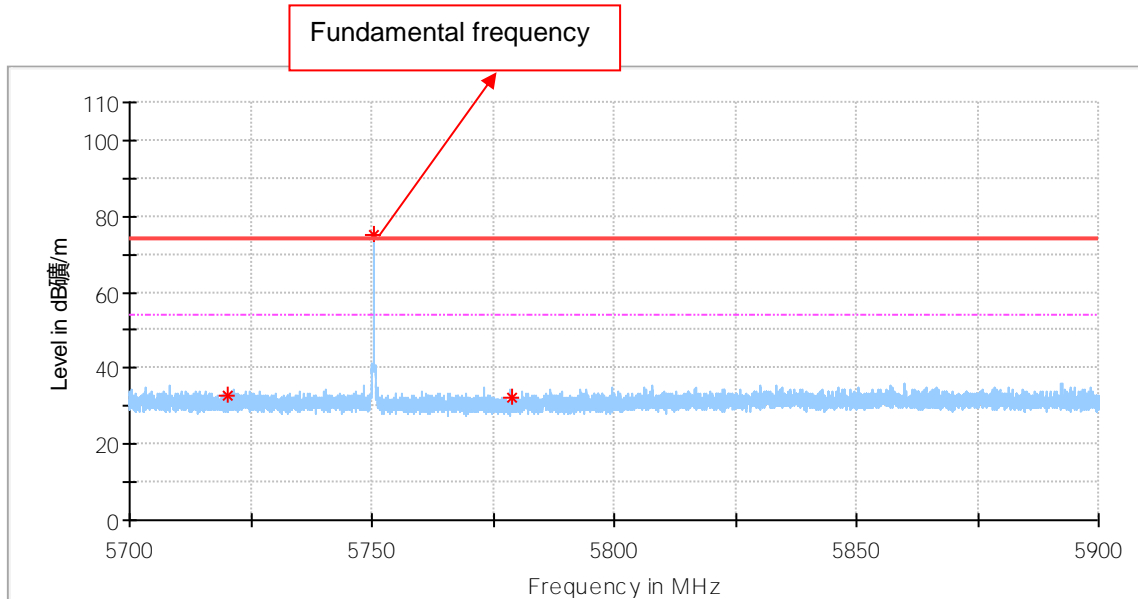
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5720.243750	33.84	74.00	40.16	---	---	154.0	H	267.0	3.0
5750.425000	79.77	74.00	-5.77	---	---	154.0	H	1.0	2.7
5780.431250	33.40	74.00	40.60	---	---	154.0	H	4.0	2.5

Remark

Above 1GHz: Corrector factor=Antenna Factor + Cable loss-Amplifier Gain

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

EUT: radar sensor
 M/N: ED158S
 Operating Condition: Tx; 5750MHz
 Polarization: Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5720.150000	33.01	74.00	40.99	---	---	154.0	V	333.0	3.0
5750.431250	74.93	74.00	-0.93	---	---	154.0	V	14.0	2.7
5779.131250	32.37	74.00	41.63	---	---	154.0	V	57.0	2.5

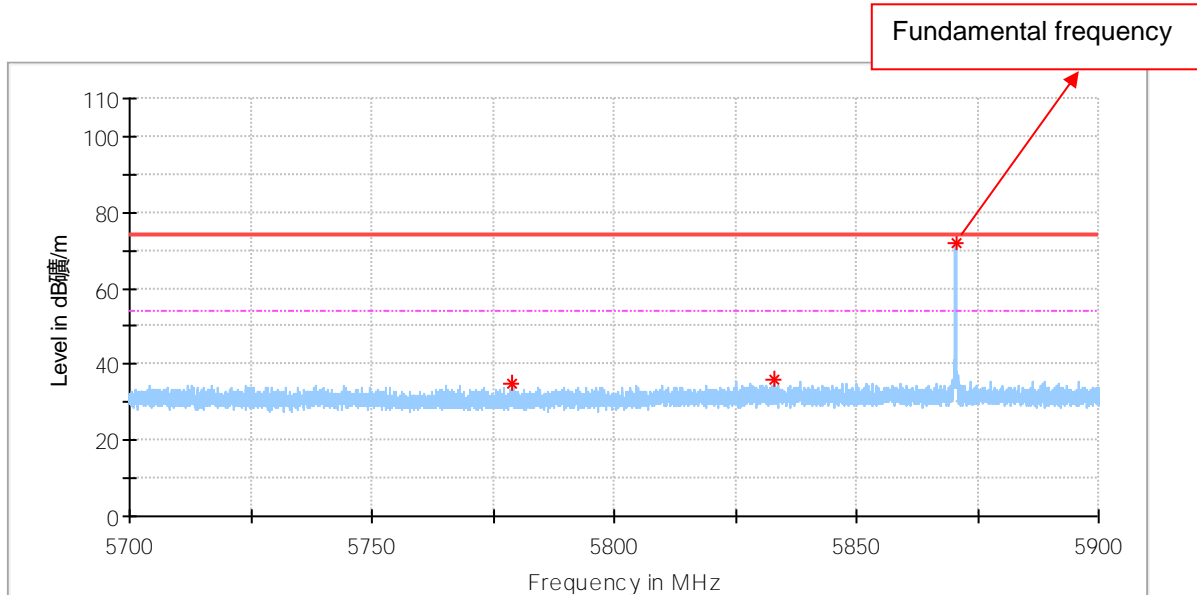
Remark

Above 1GHz: Corrector factor=Antenna Factor + Cable loss-Amplifier Gain

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Out of Band Emissions

EUT: radar sensor
M/N: ED158S
Operating Condition: Tx; 5870MHz
Polarization: Horizontal



Critical Freqs

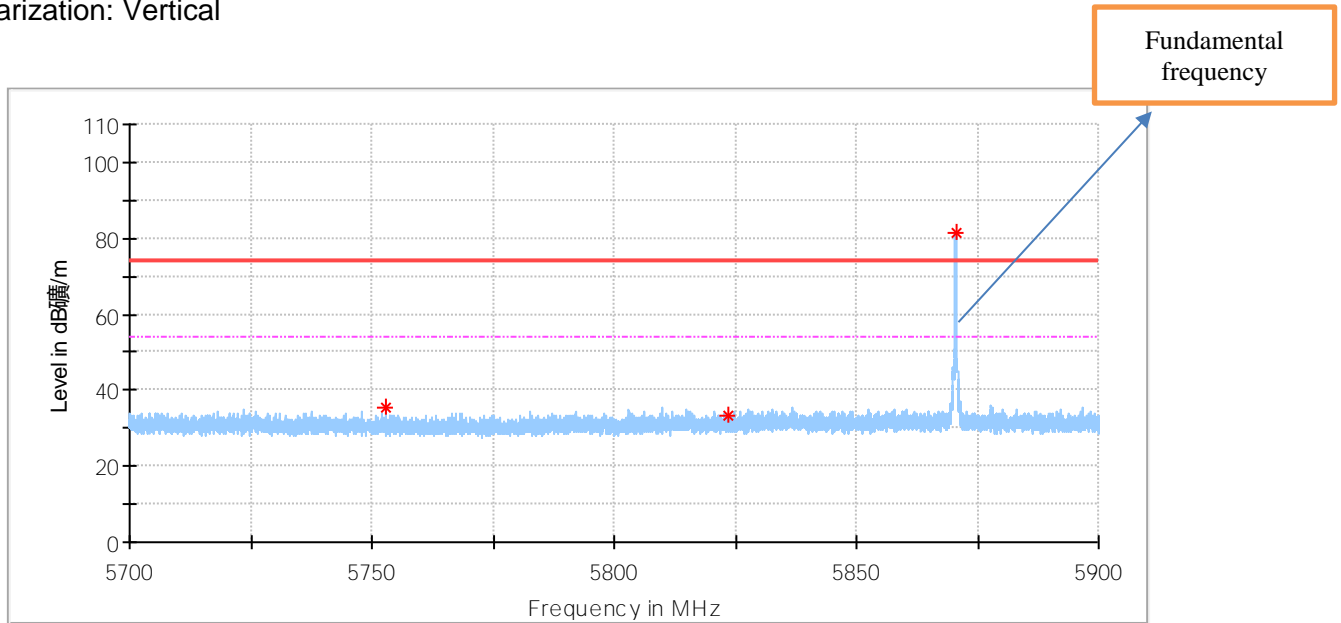
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5779.012500	34.96	74.00	39.04	---	---	154.0	H	207.0	2.5
5833.200000	36.22	74.00	37.78	---	---	154.0	H	62.0	3.5
5870.468750	71.77	74.00	2.23	---	---	154.0	H	278.0	3.5

Remark

Above 1GHz: Corrector factor=Antenna Factor + Cable loss-Amplifier Gain

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

EUT: radar sensor
M/N: ED158S
Operating Condition: Tx; 5870MHz
Polarization: Vertical



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
5752.831250	35.47	74.00	38.53	---	---	154.0	V	219.0	2.7
5823.543750	33.31	74.00	40.69	---	---	154.0	V	335.0	3.3
5870.462500	81.66	74.00	-7.66	---	---	154.0	V	1.0	3.5

Remark

Above 1GHz: Corrector factor=Antenna Factor + Cable loss-Amplifier Gain

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

8.4 20dB Bandwidth

Test Method

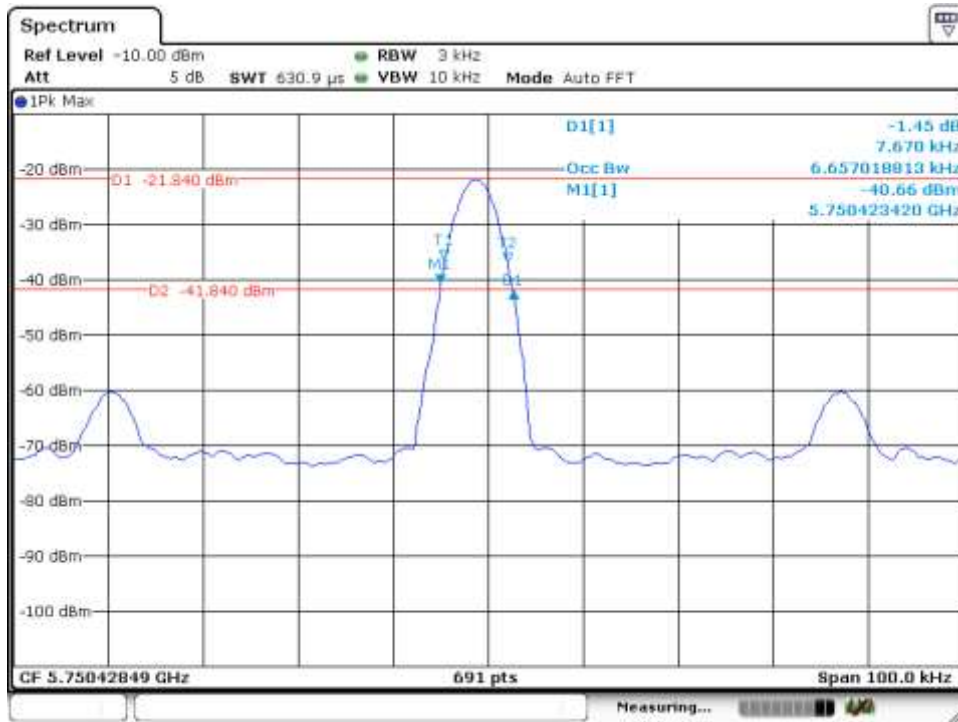
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Limits:

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

20dB Bandwidth

Frequency MHz	20dB Bandwidth KHz	Limit kHz
5750	6.657	-

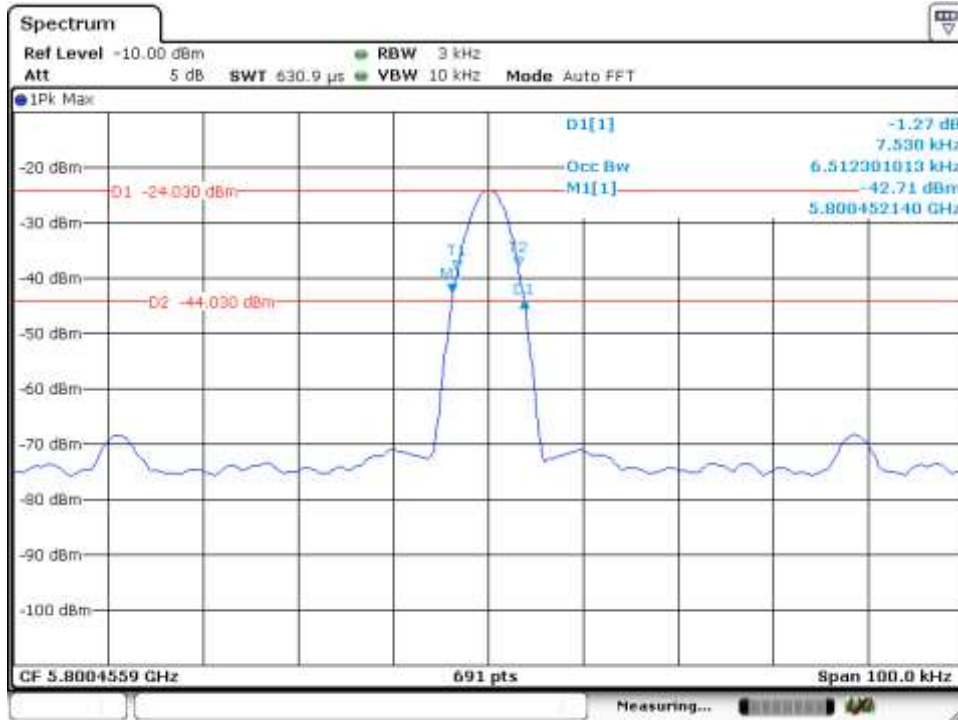


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5750MHz

20dB Bandwidth

Frequency	20dB Bandwidth	Limit
MHz	KHz	kHz
5800	6.512	-

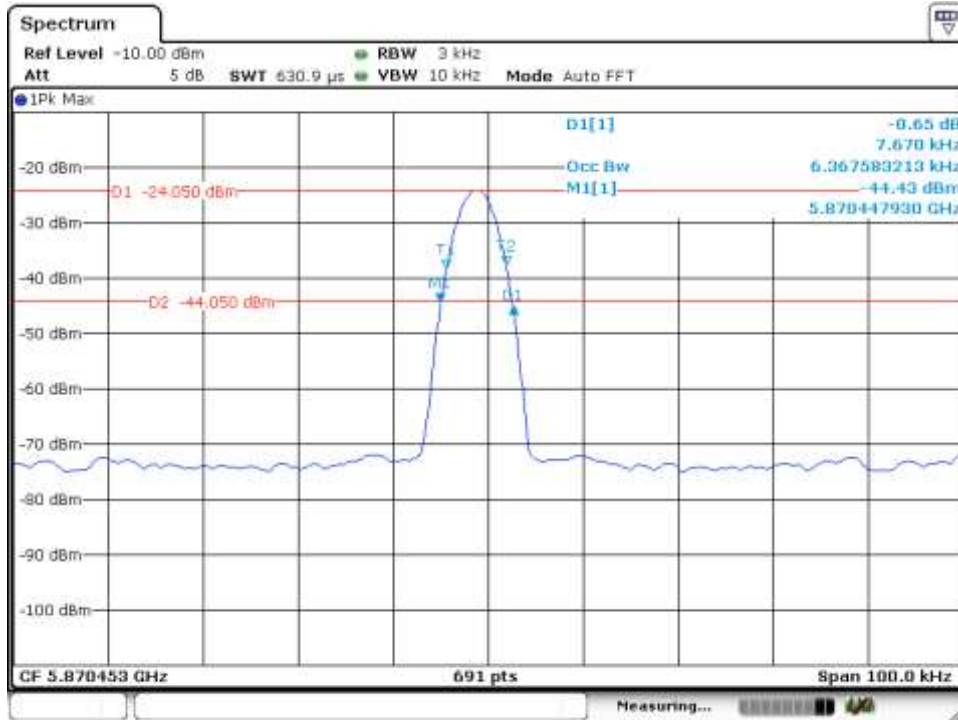


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5800MHz

20dB Bandwidth

Frequency	20dB Bandwidth	Limit
MHz	KHz	kHz
5870	6.368	--



Date: 30.OCT.2019 13:31:35

5870MHz

9 Test equipment list

List of Test Instruments

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	2020-6-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	2020-8-20
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	2020-6-22
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	2020-7-7
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	2020-6-28
Signal Generator	Rohde & Schwarz	SMY01	68-4-48-16-001	839369/005	2020-6-28
Attenuator	Agilent	8491A	68-4-81-16-001	MY39264334	2020-6-28
3m Semi-anechoic chamber	TDK	9X6X6	68-4-90-14-001	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version9.15.00	N/A

RF Conducted Test

Description	Manufacturer	Model no.	Serial no.	cal. due date
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2020-6-28

10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	4.76dB
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 5.12dB; Vertical: 5.10dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 5.01dB; Vertical: 5.00dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10 ⁻⁷ or 1%