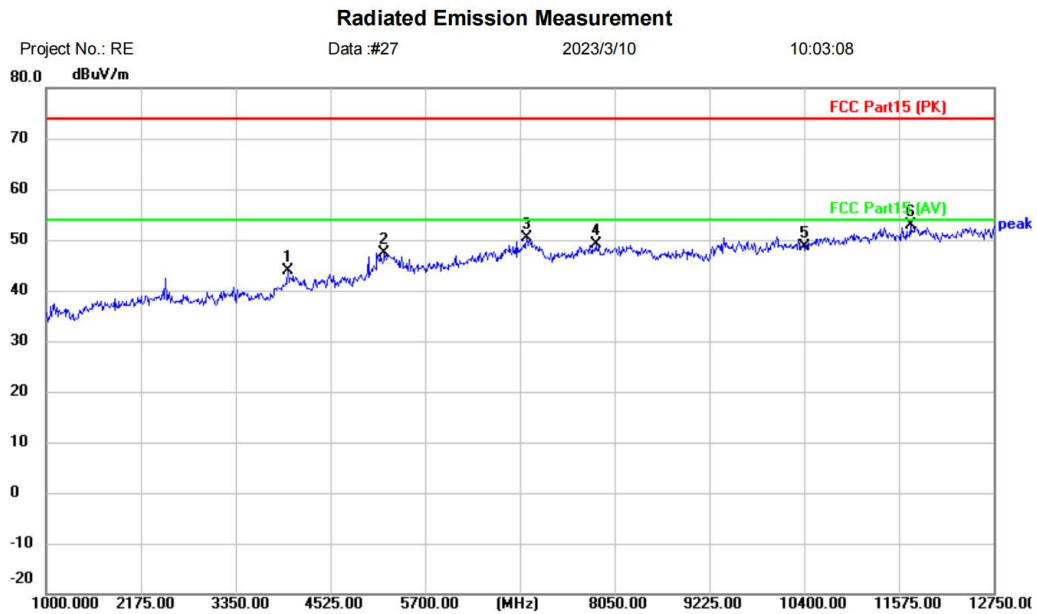


[TestMode: TX N40 5200 channel]; [Polarity: Horizontal]



Site:      Polarization: **Horizontal**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: OutdoorCam P1 Lite  
M/N: C4L  
Mode: 5GWIFI-A-band1-TX-M  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		3996.250	42.53	1.43	43.96	74.00	-30.04	peak	
2		5194.750	39.47	7.87	47.34	74.00	-26.66	peak	
3		6957.250	40.19	10.08	50.27	74.00	-23.73	peak	
4		7815.000	40.41	8.80	49.21	74.00	-24.79	peak	
5		10400.000	36.22	12.52	48.74	74.00	-25.26	peak	
6	*	11716.000	39.21	13.77	52.98	74.00	-21.02	peak	

\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX 11a 5240 channel]; [Polarity: Horizontal]

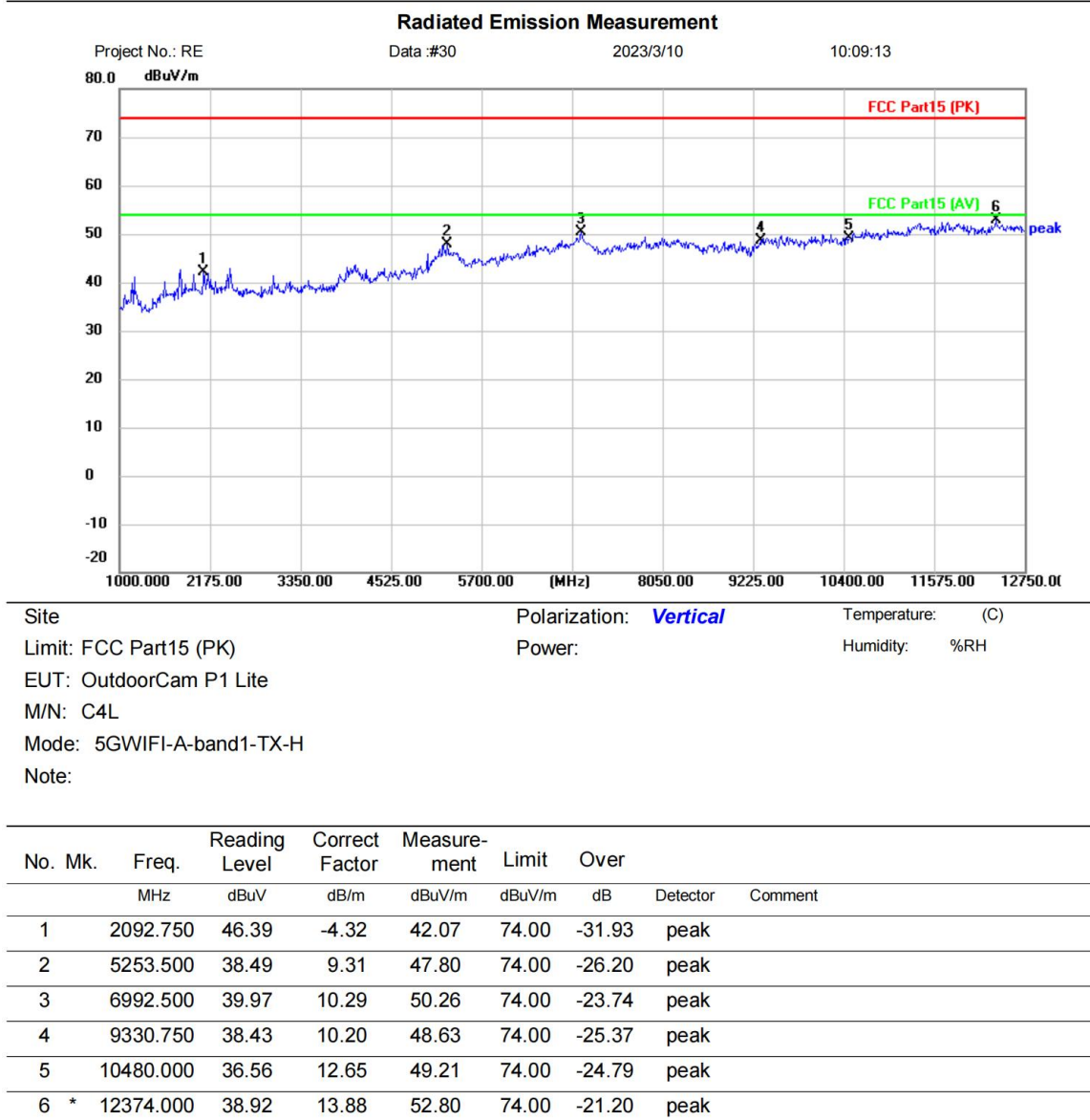


\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX 11a 5240 channel]; [Polarity: Vertical]

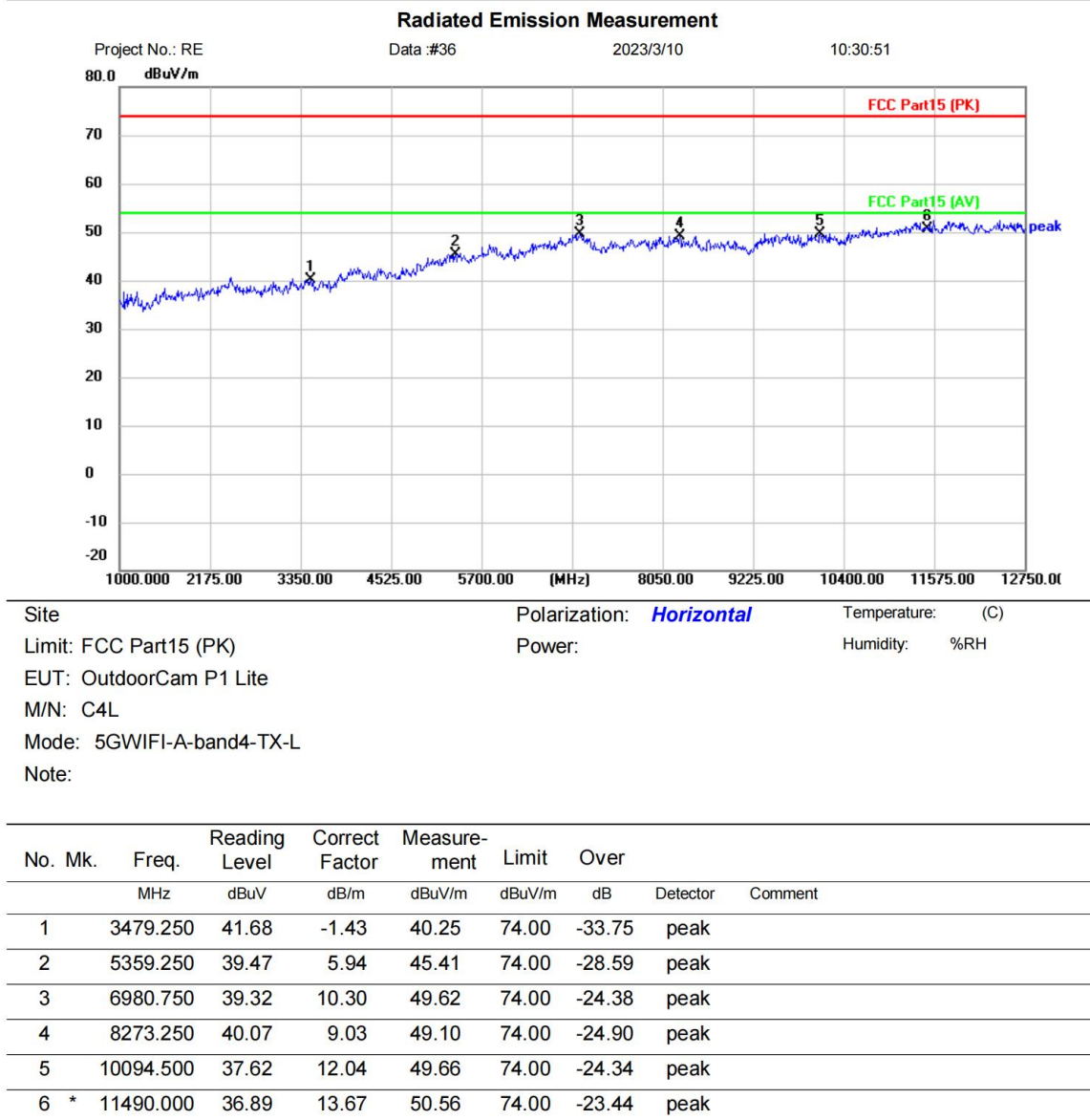


\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX 11a 5745 channel]; [Polarity: Horizontal]

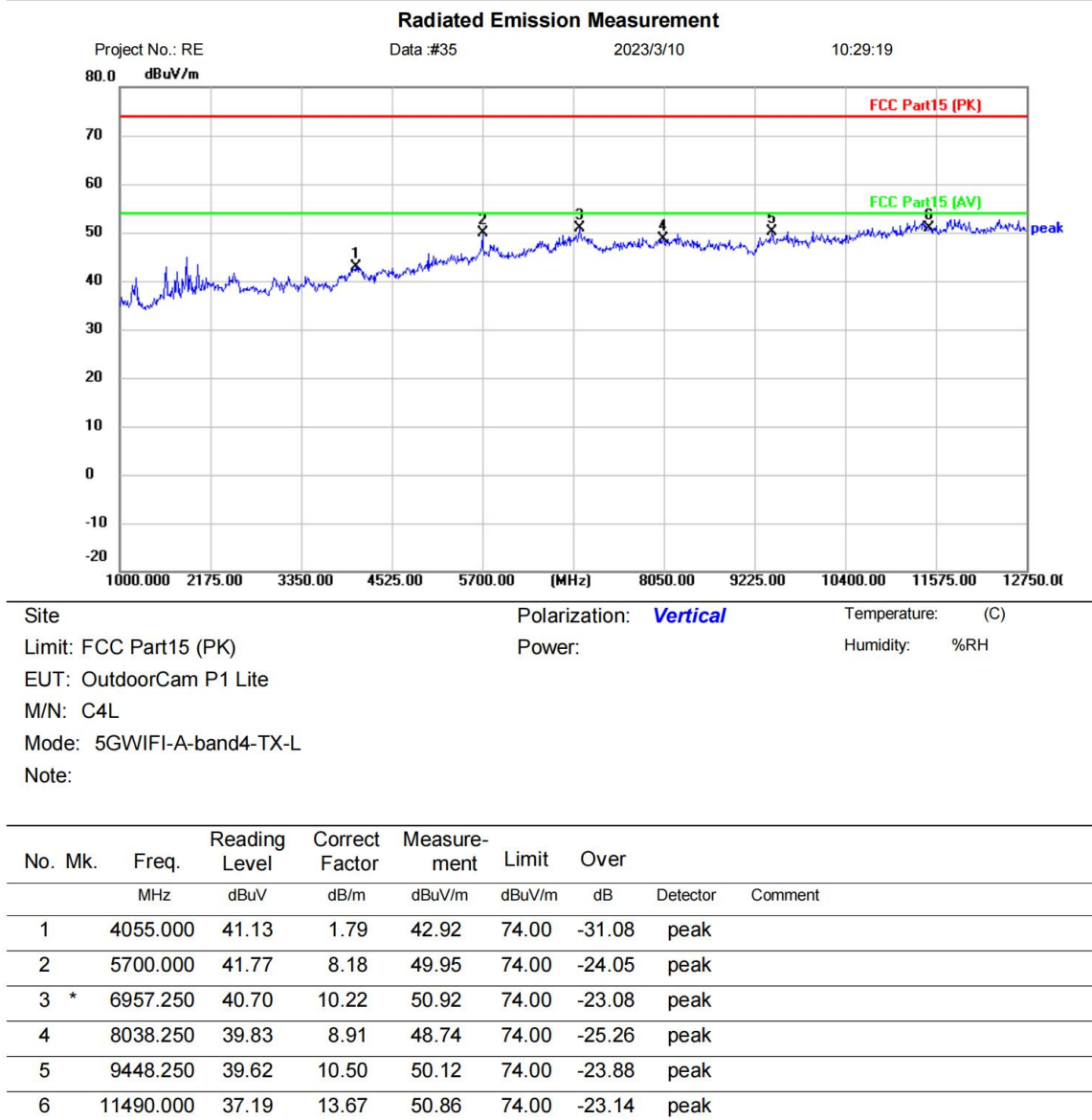


\*:Maximum data    x:Over limit    !:over margin

⟨Reference Only

**Test Result: Pass**

[TestMode: TX 11a 5745 channel]; [Polarity: Vertical]

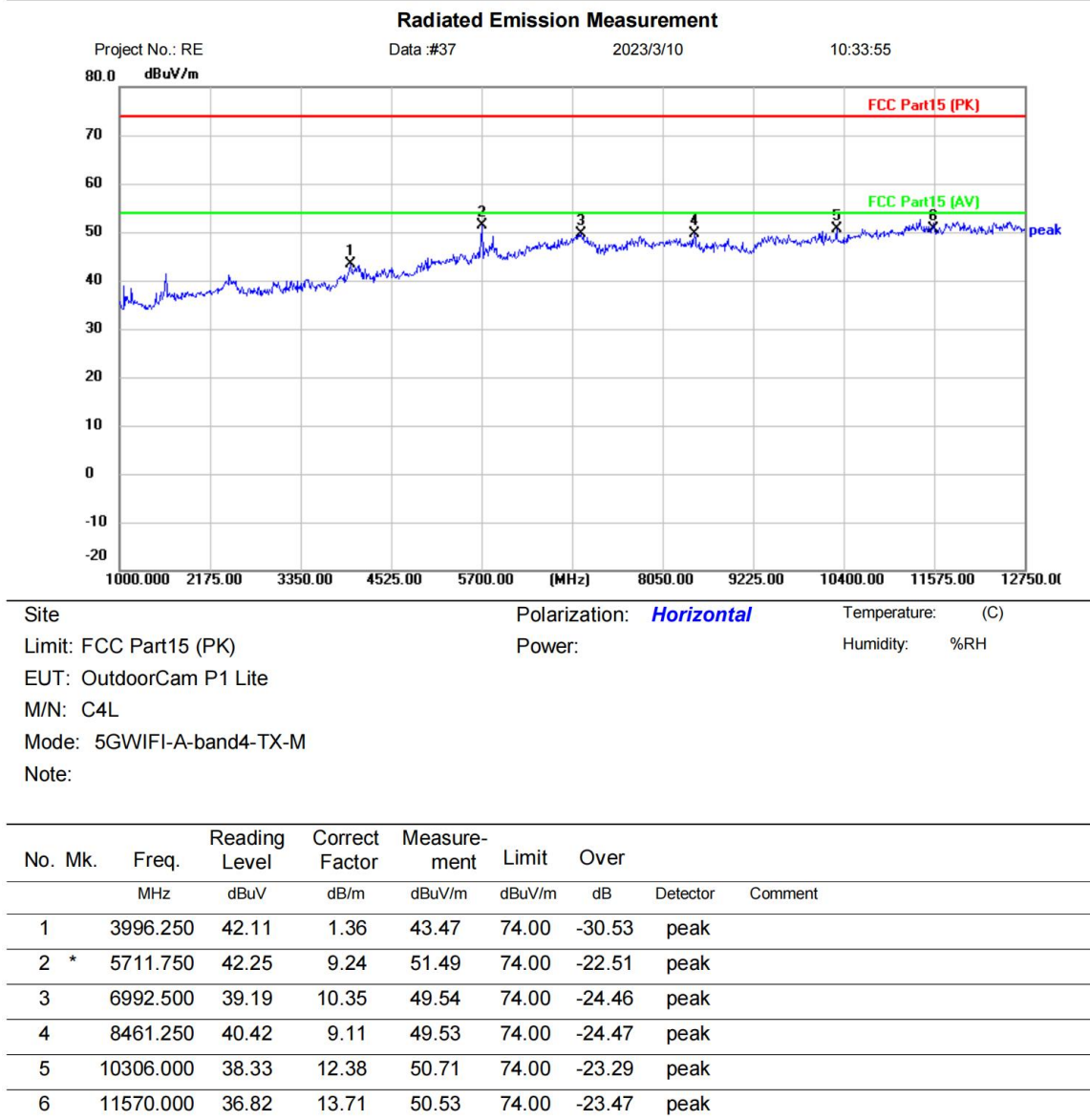


\*:Maximum data    x:Over limit    !:over margin

⟨Reference Only

**Test Result: Pass**

[TestMode: TX 11a 5785 channel]; [Polarity: Horizontal]



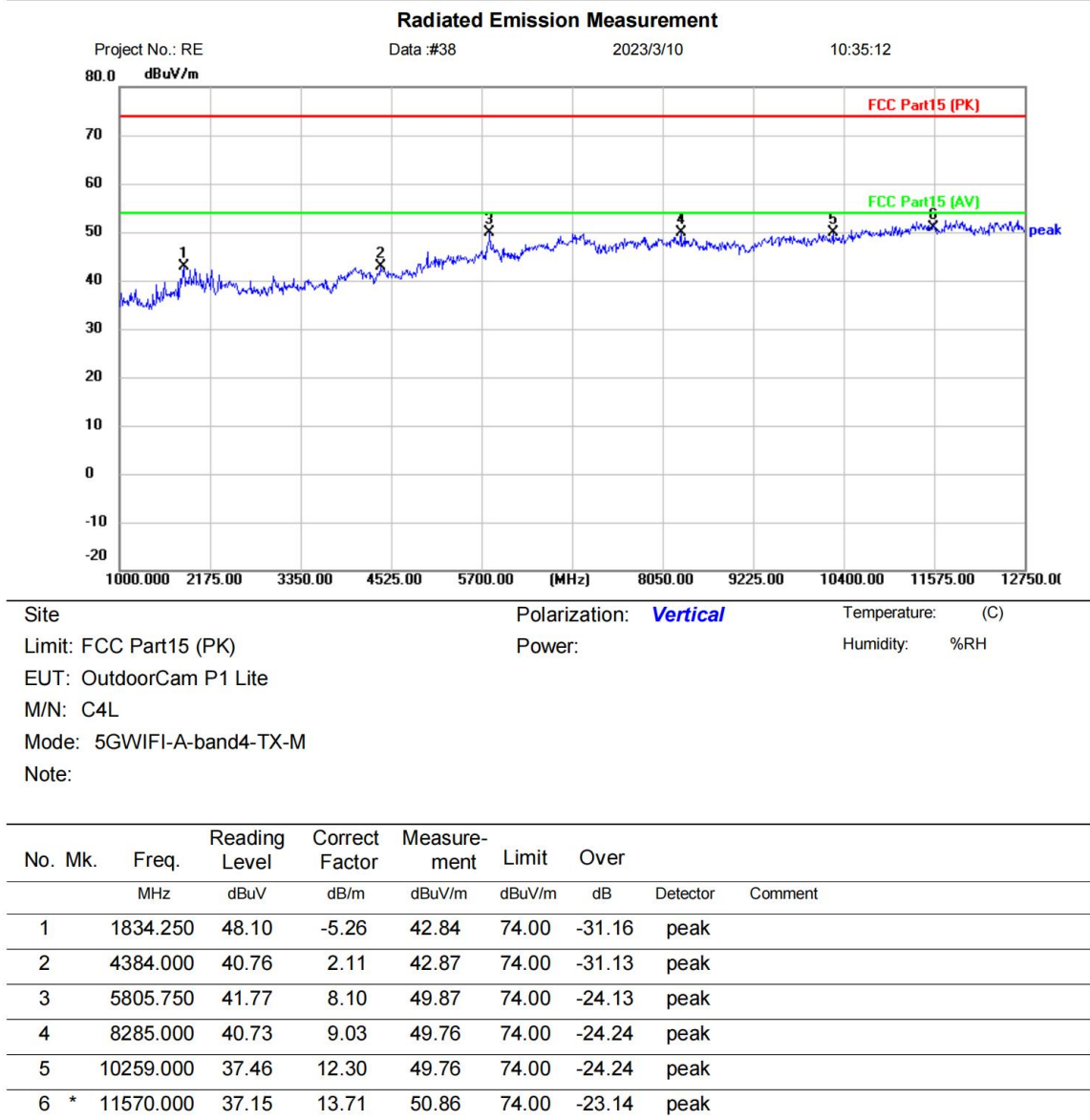
\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**



[TestMode: TX 11a 5785 channel]; [Polarity: Vertical]

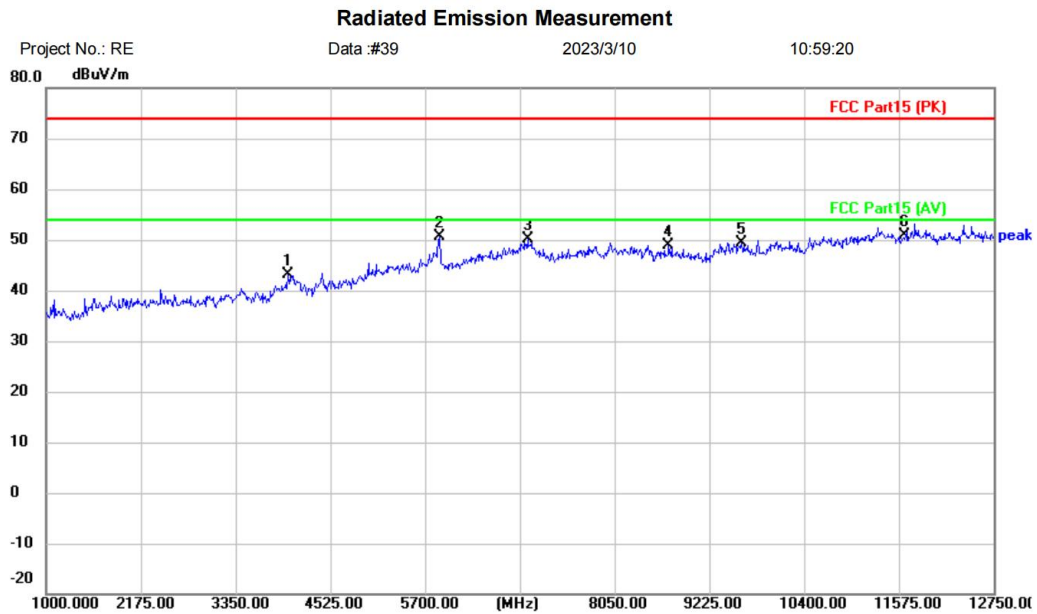


\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

[TestMode: TX 11a 5825 channel]; [Polarity: Horizontal]



Site:      Polarization: **Horizontal**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: OutdoorCam P1 Lite  
M/N: C4L  
Mode: 5GWIFI-A-band4-TX-H  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		3996.250	41.72	1.36	43.08	74.00	-30.92	peak	
2		5876.250	43.40	7.25	50.65	74.00	-23.35	peak	
3		6969.000	39.78	10.27	50.05	74.00	-23.95	peak	
4		8719.750	39.63	9.22	48.85	74.00	-25.15	peak	
5		9624.500	38.46	10.94	49.40	74.00	-24.60	peak	
6	*	11650.000	37.10	13.74	50.84	74.00	-23.16	peak	

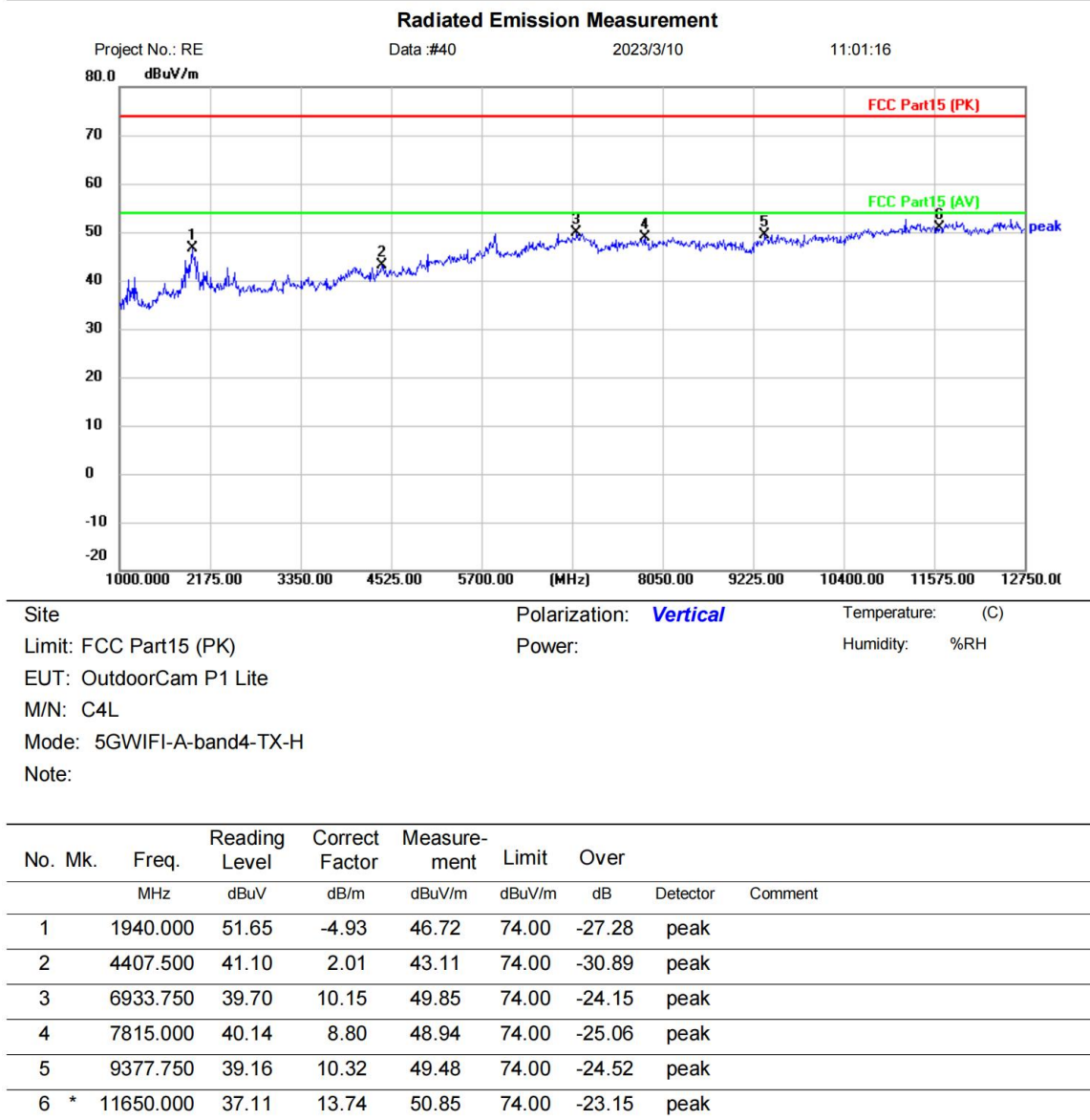
\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**



[TestMode: TX 11a 5825 channel]; [Polarity: Vertical]



\*:Maximum data    x:Over limit    !:over margin

<Reference Only

**Test Result: Pass**

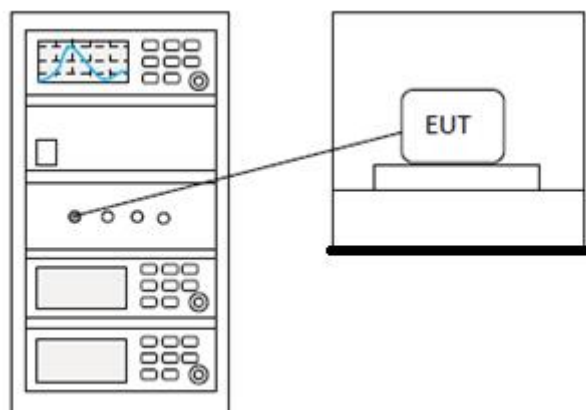
### 13 PEAK POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II F
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

#### 13.1 LIMITS

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

#### 13.2 BLOCK DIAGRAM OF TEST SETUP



**13.3 TEST DATA**

**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia

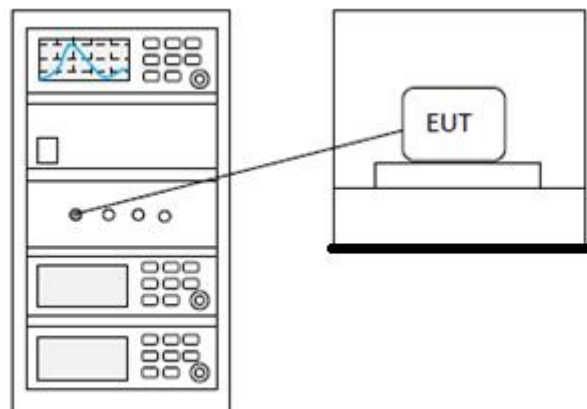
## 14 MAXIMUM CONDUCTED OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II E
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

### 14.1 LIMITS

Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

### 14.2 BLOCK DIAGRAM OF TEST SETUP



### 14.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia

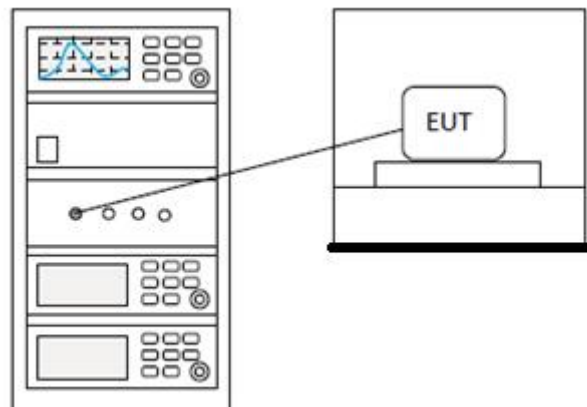
## 15 MINIMUM 6 DB BANDWIDTH (5.725-5.85 GHZ BAND )

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II C 2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

### 15.1 LIMITS

Limit:	$\geq 500$ kHz
--------	----------------

### 15.2 BLOCK DIAGRAM OF TEST SETUP



### 15.3 TEST DATA

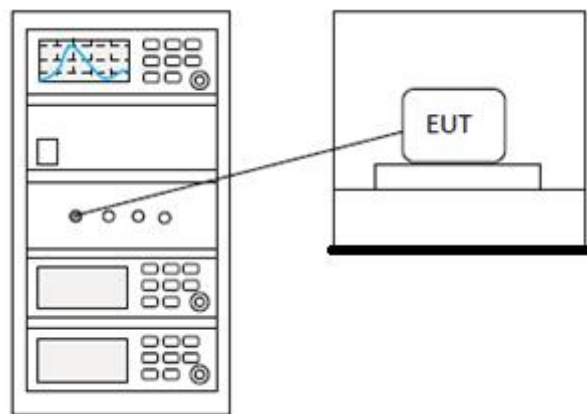
**Pass: Please Refer To Appendix: Appendix1 For Details**



## 16 26DB EMISSION BANDWIDTH

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II C 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

### 16.1 BLOCK DIAGRAM OF TEST SETUP



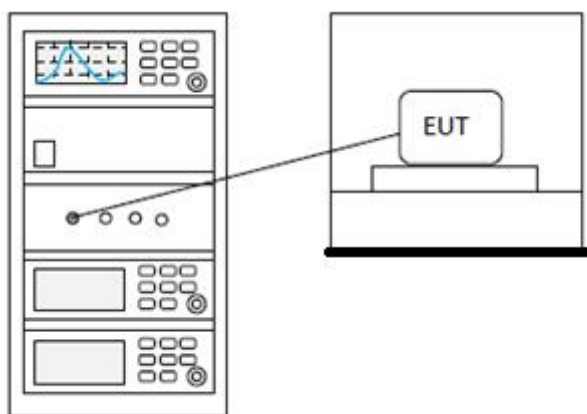
### 16.2 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

## 17 99% BANDWIDTH

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 II D
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

### 17.1 BLOCK DIAGRAM OF TEST SETUP



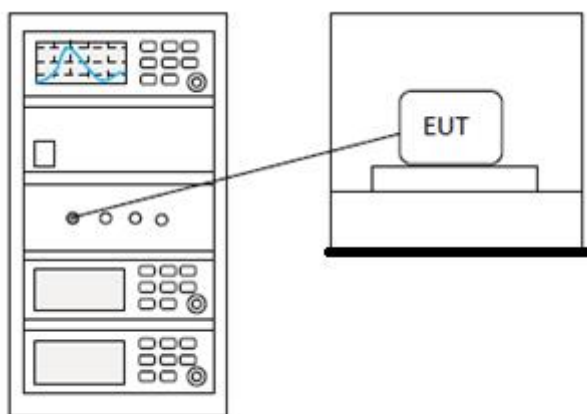
### 17.2 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

## 18 DUTY CYCLE

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 II B 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

### 18.1 BLOCK DIAGRAM OF TEST SETUP



### 18.2 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

## 19 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

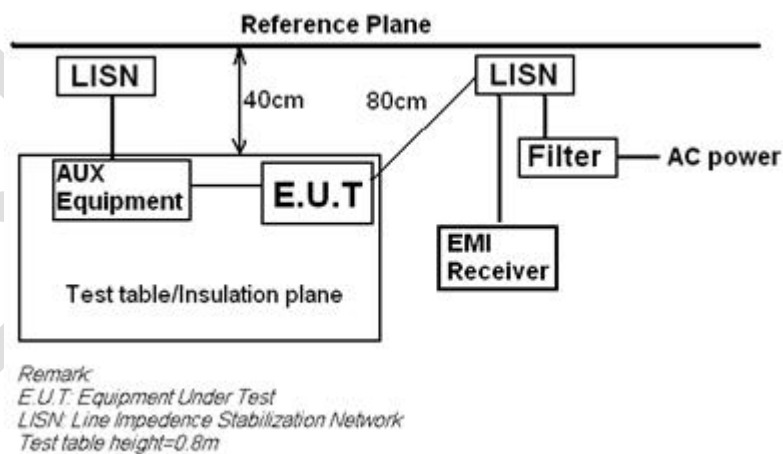
Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	Transmitting mode
Test Mode (Final Test)	Transmitting mode
Tester	Jozu
Temperature	25℃
Humidity	60%

### 19.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

### 19.2 BLOCK DIAGRAM OF TEST SETUP



### 19.3 PROCEDURE

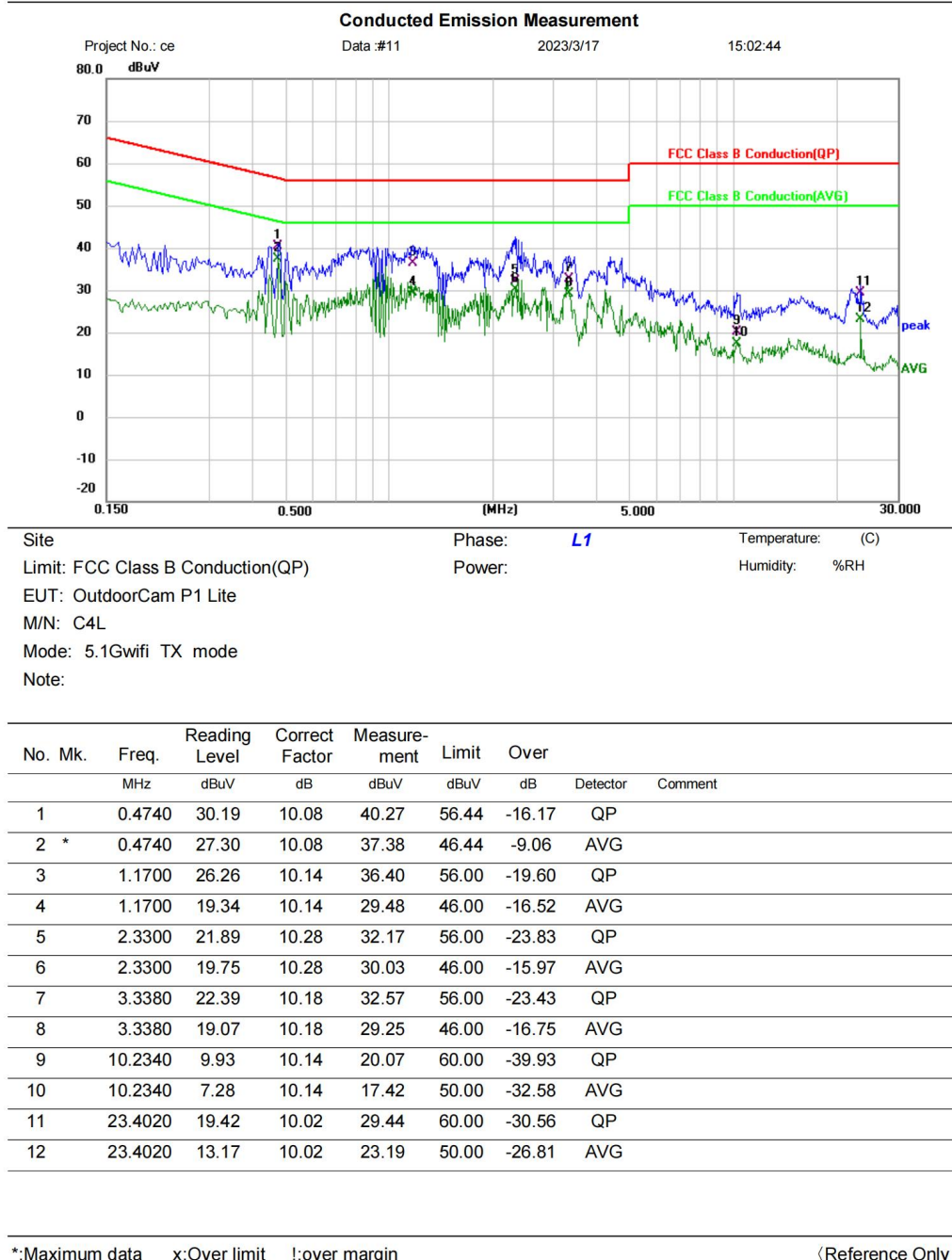
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark:  $LISN = Read\ Level + Cable\ Loss + LISN\ Factor$

## 19.4 TEST DATA

[TestMode: Transmitting mode]; [Line: Neutral] ;[Power:AC120V/60Hz]

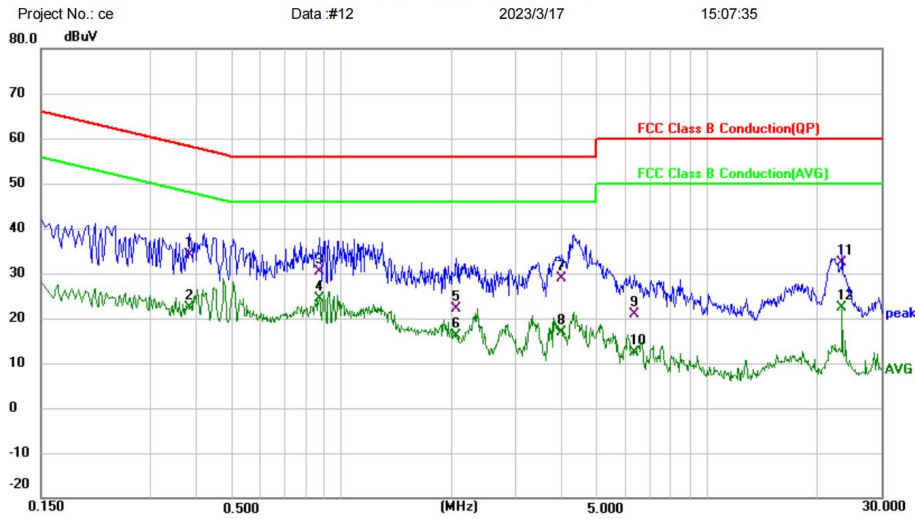


**Test Result: Pass**



[TestMode: Transmitting mode]; [Line: Line] ;[Power:AC120V/60Hz]

### Conducted Emission Measurement



Site: Phase: **N** Temperature: (C)  
Limit: FCC Class B Conduction(QP) Power: Humidity: %RH  
EUT: OutdoorCam P1 Lite  
M/N: C4L  
Mode: 5.1Gwifi TX mode  
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.3820	24.00	10.06	34.06	58.24	-24.18	QP	
2	0.3820	12.20	10.06	22.26	48.24	-25.98	AVG	
3	0.8700	20.29	10.02	30.31	56.00	-25.69	QP	
4 *	0.8700	14.33	10.02	24.35	46.00	-21.65	AVG	
5	2.0620	12.15	10.10	22.25	56.00	-33.75	QP	
6	2.0620	6.01	10.10	16.11	46.00	-29.89	AVG	
7	3.9900	18.94	9.90	28.84	56.00	-27.16	QP	
8	3.9900	6.95	9.90	16.85	46.00	-29.15	AVG	
9	6.3500	11.10	9.85	20.95	60.00	-39.05	QP	
10	6.3500	2.54	9.85	12.39	50.00	-37.61	AVG	
11	23.4020	22.40	9.99	32.39	60.00	-27.61	QP	
12	23.4020	12.33	9.99	22.32	50.00	-27.68	AVG	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

**Test Result: Pass**

## 20 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	N/A

### 20.1 CONCLUSION

Standard 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 5.47dBi.

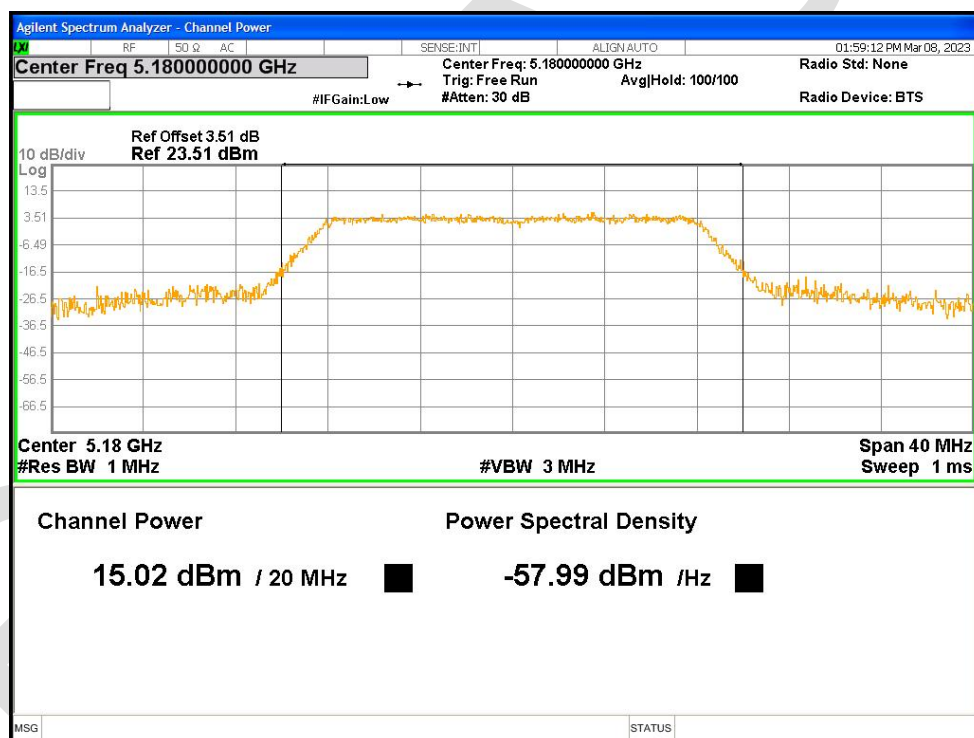
## 21 APPENDIX

### 21.1 5.1G

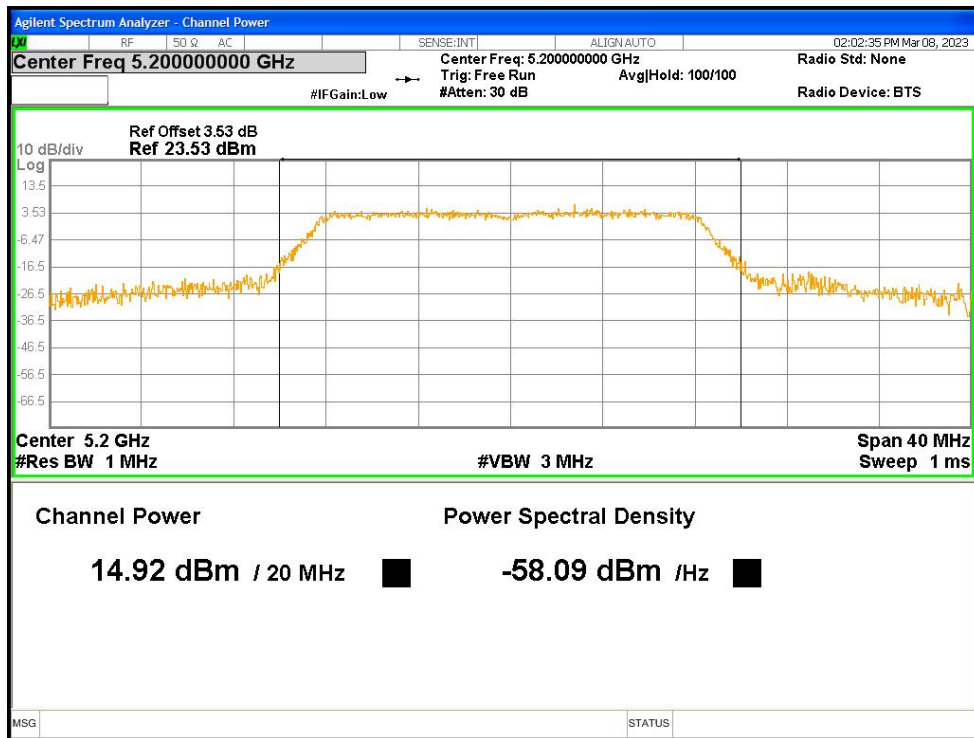
#### Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	15.015	24	Pass
NVNT	a	5200	Ant1	14.921	24	Pass
NVNT	a	5240	Ant1	15.271	24	Pass
NVNT	n20	5180	Ant1	14.727	24	Pass
NVNT	n20	5200	Ant1	14.485	24	Pass
NVNT	n20	5240	Ant1	14.932	24	Pass
NVNT	n40	5190	Ant1	14.935	24	Pass
NVNT	n40	5230	Ant1	15.161	24	Pass

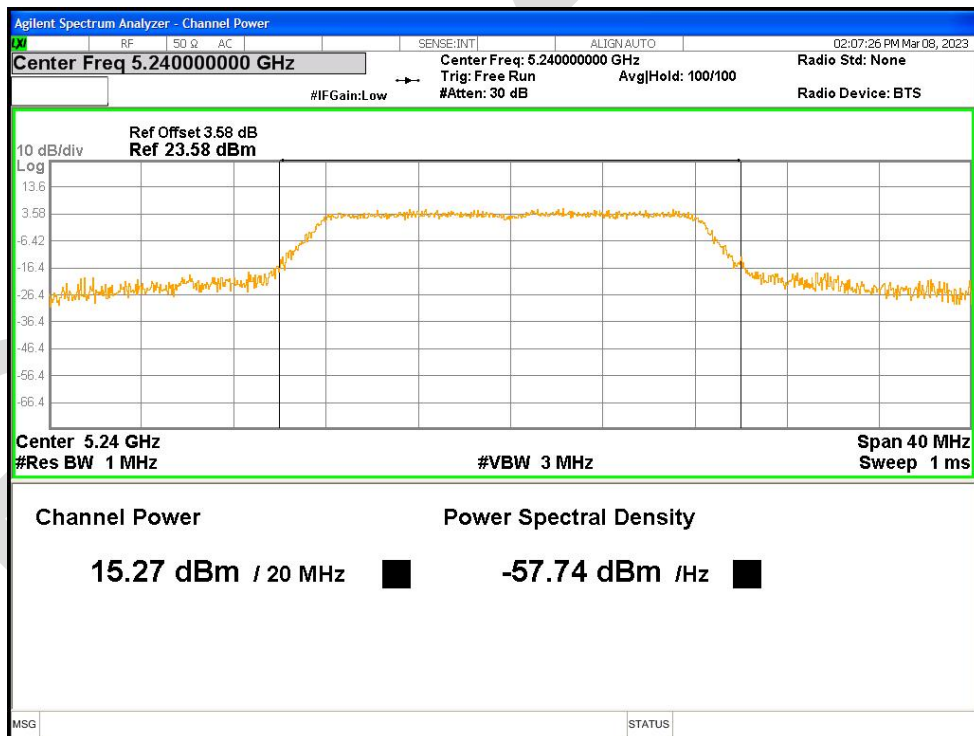
Power NVNT a 5180MHz Ant1



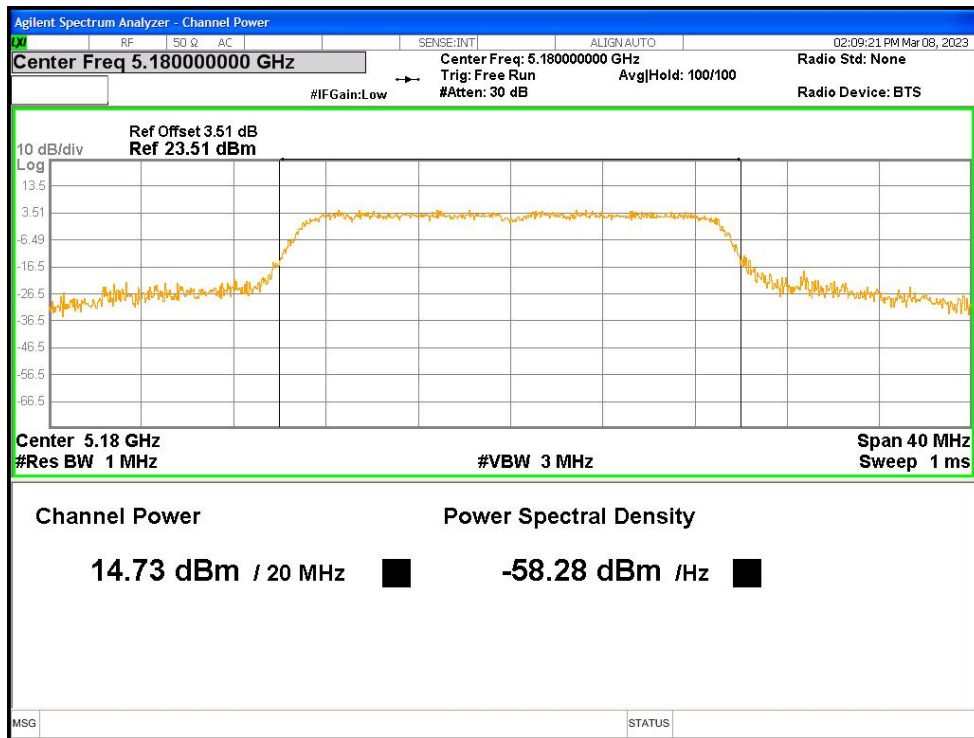
Power NVNT a 5200MHz Ant1



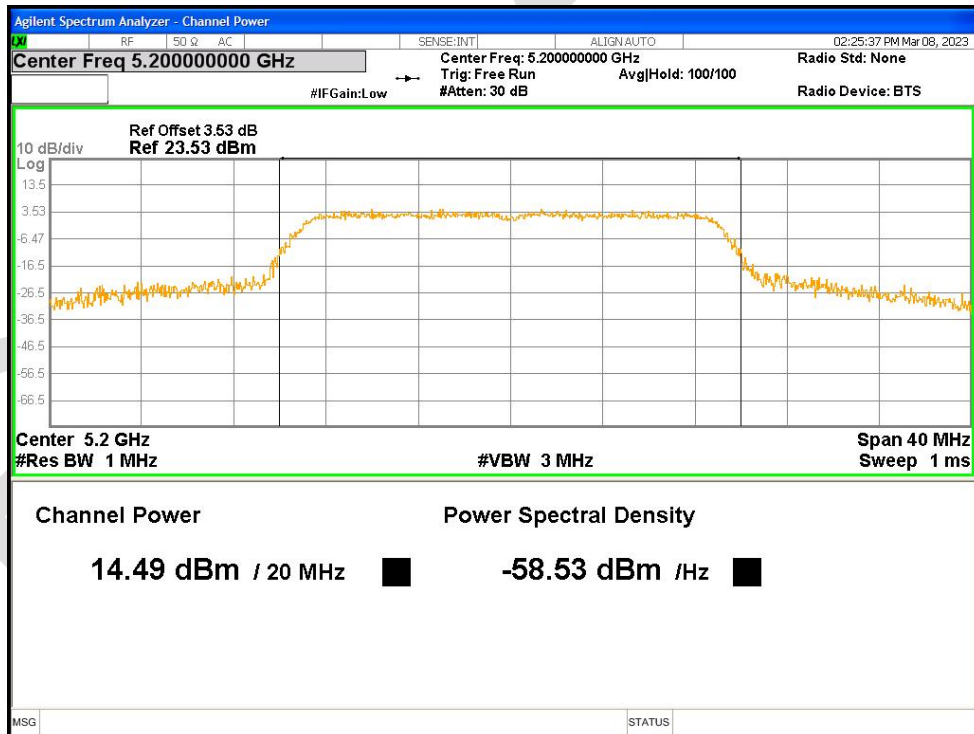
Power NVNT a 5240MHz Ant1



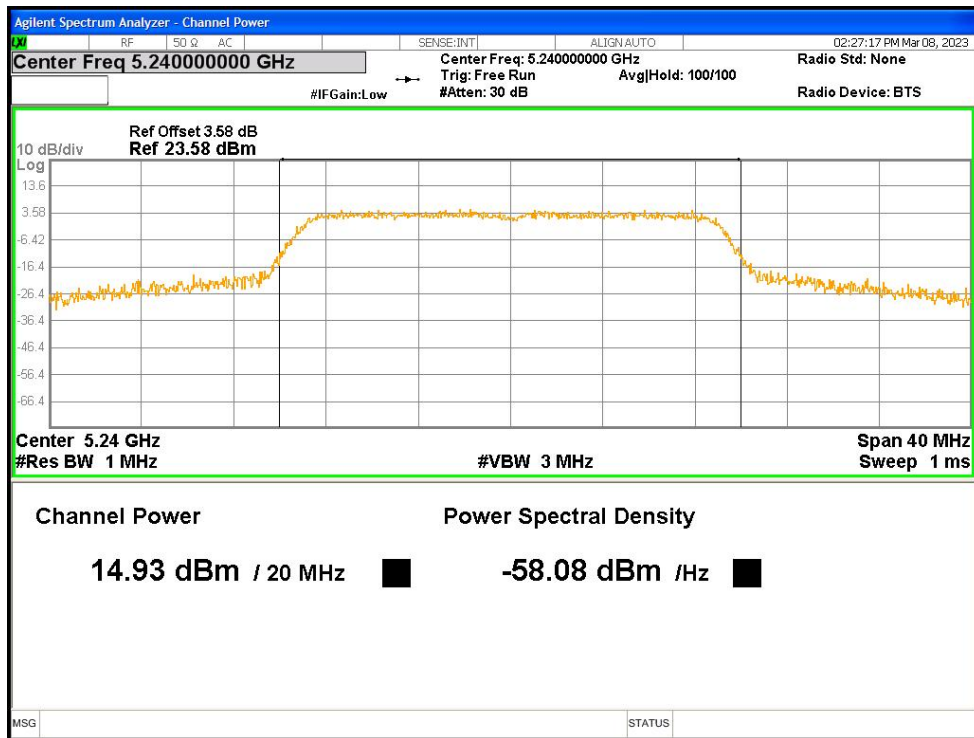
Power NVNT n20 5180MHz Ant1



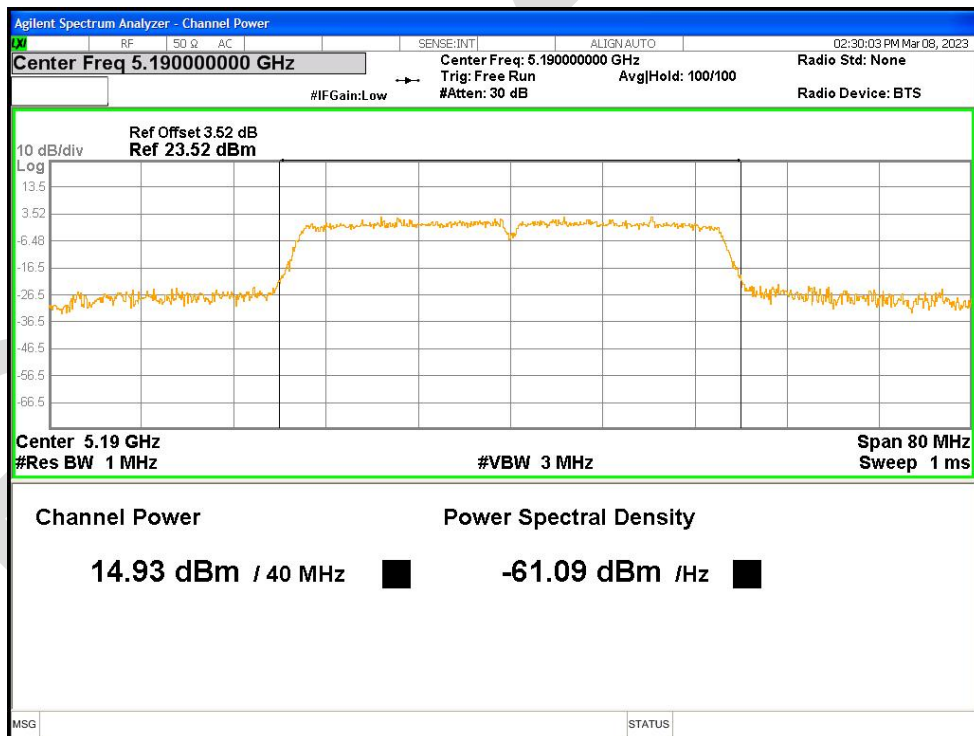
Power NVNT n20 5200MHz Ant1



Power NVNT n20 5240MHz Ant1

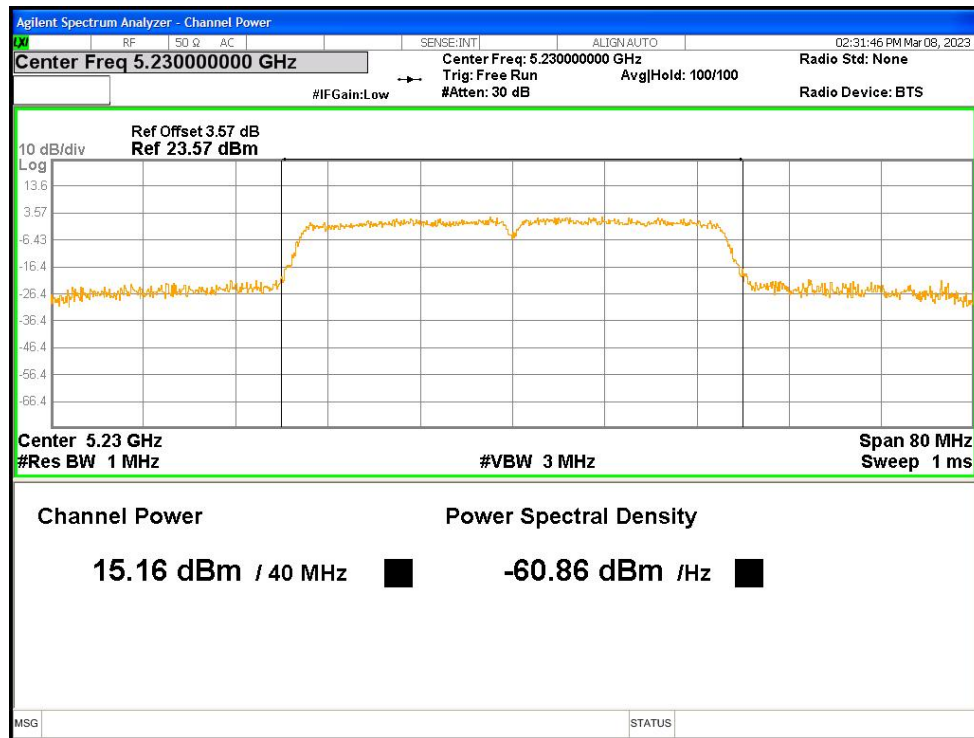


Power NVNT n40 5190MHz Ant1



Power NVNT n40 5230MHz Ant1

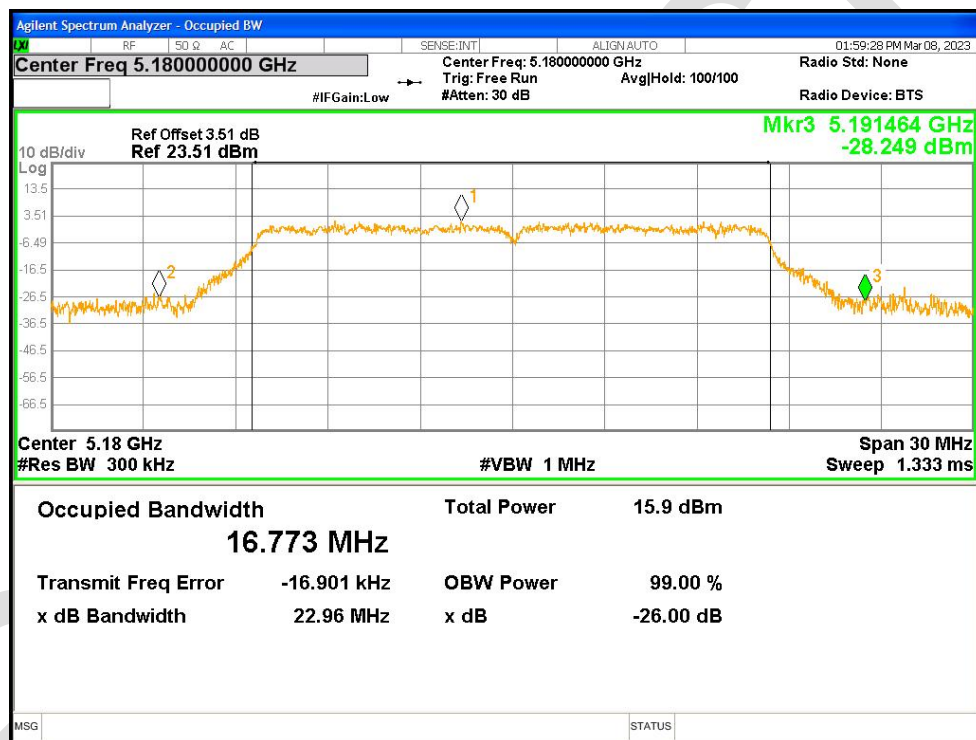




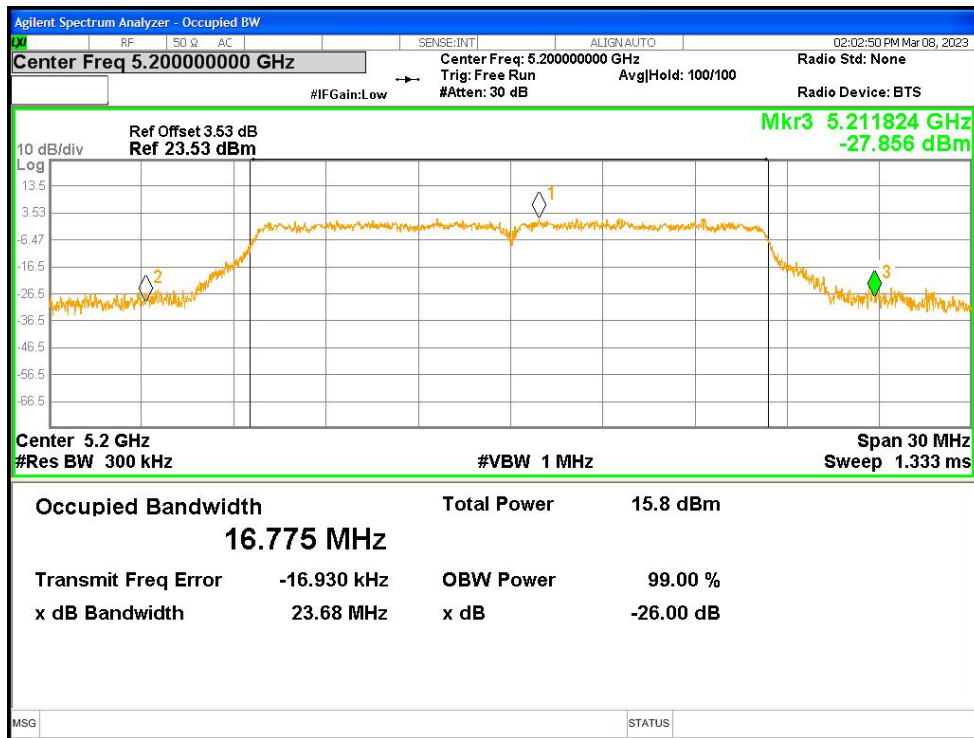
### -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.962	0.5	Pass
NVNT	a	5200	Ant1	23.682	0.5	Pass
NVNT	a	5240	Ant1	24.835	0.5	Pass
NVNT	n20	5180	Ant1	20.969	0.5	Pass
NVNT	n20	5200	Ant1	22.557	0.5	Pass
NVNT	n20	5240	Ant1	22.913	0.5	Pass
NVNT	n40	5190	Ant1	40.071	0.5	Pass
NVNT	n40	5230	Ant1	57.236	0.5	Pass

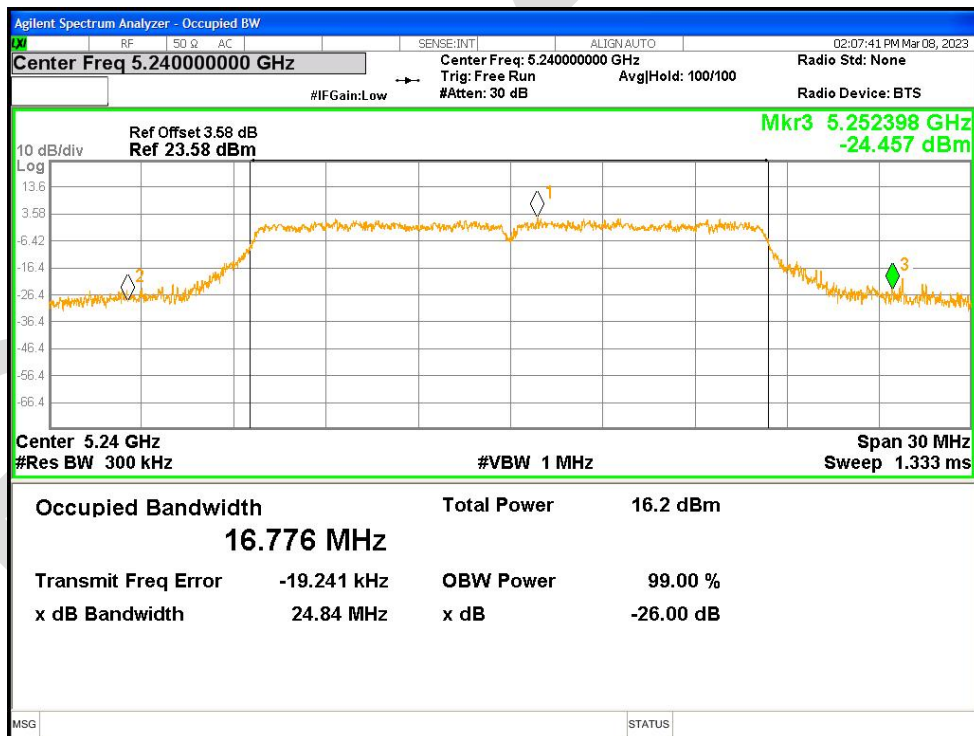
### -26dB Bandwidth NVNT a 5180MHz Ant1



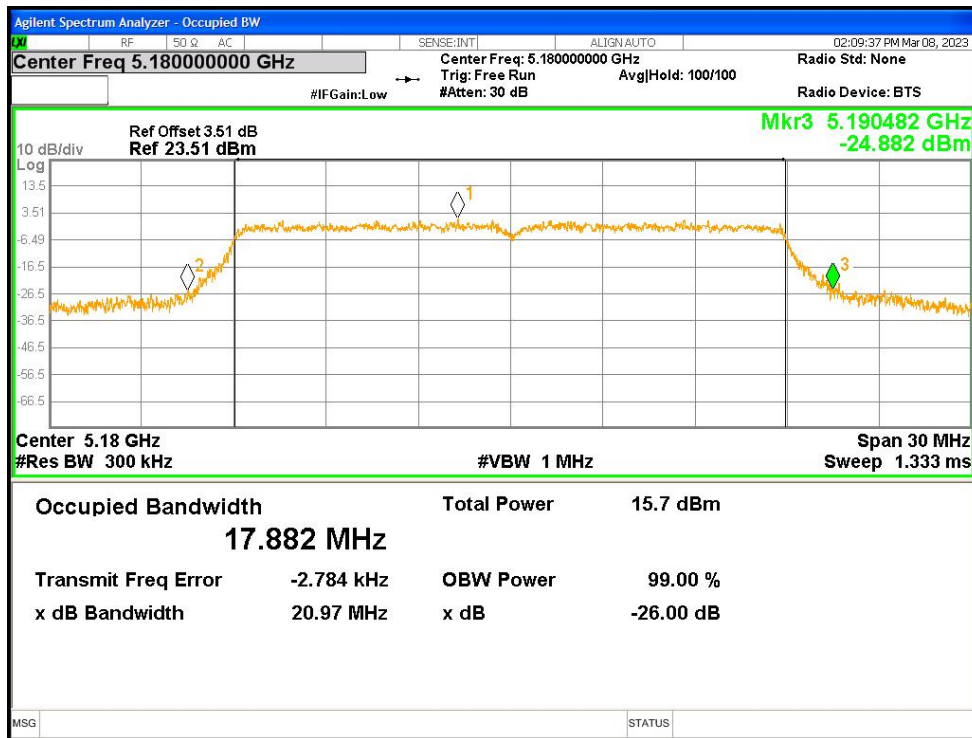
### -26dB Bandwidth NVNT a 5200MHz Ant1



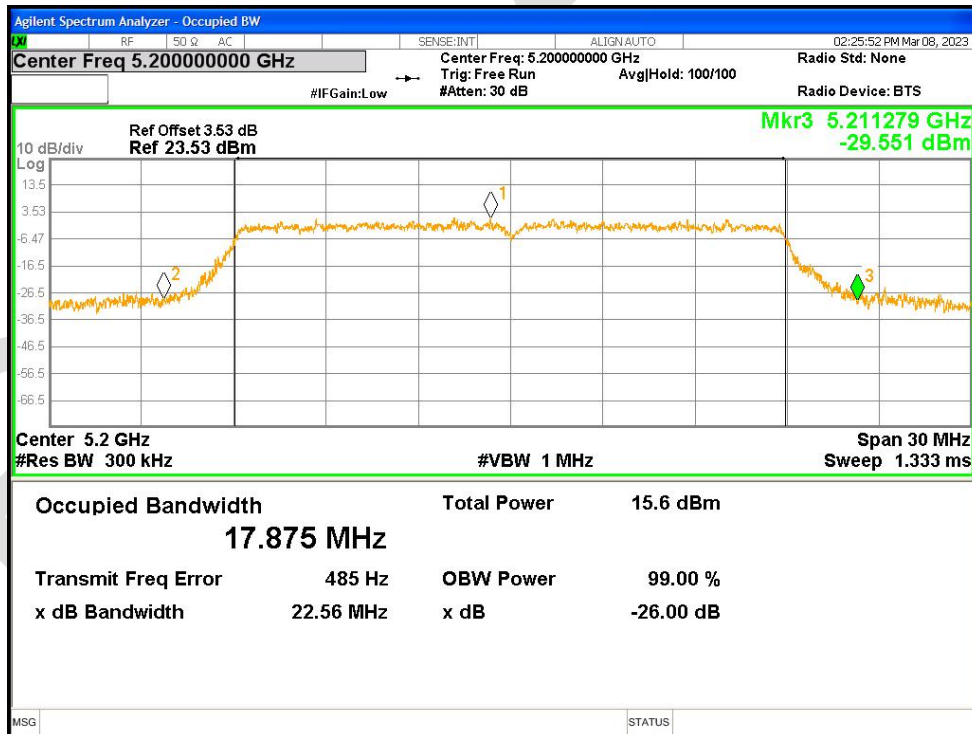
-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1