

TEST REPORT

Product Name	: Indoor Wi-Fi IP Plug In 3MP Deterrence : Camera with Pan, Tilt and 2-Way Audio - White
Brand Mark	: Night Owl
Model No.	: WCM-FWIP3PT-I
Extension Model	: CAM-FWIP3PT-IN, CAM-2PK-FWIP3PT-IN, 1PK-WCM-FWIP3PT-I-WA, 2PK-WCM-FWI P3PT-I-WA, WCM-FWIP3PT-I-WA, WCM-F WIP3PT-I-CN13
FCC ID	: Z63-FWIP3PT-I
Report Number	: BLA-EMC-202307-A9001
Date of Sample Receipt	: 2023/7/24
Date of Test	: 2023/7/24 to 2023/8/4
Date of Issue	: 2023/8/8
Test Standard	: 47 CFR Part 15, Subpart C 15.247
Test Result	: Pass

Prepared for:

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Date:

2023/8/8



REPORT REVISE RECORD

Version No.	Date	Description
00	2023/8/8	Original

TABLE OF CONTENTS

1 TEST SUMMARY	5
2 GENERAL INFORMATION	6
3 GENERAL DESCRIPTION OF E.U.T.....	6
4 TEST ENVIRONMENT	7
5 TEST MODE	7
6 MEASUREMENT UNCERTAINTY	7
7 DESCRIPTION OF SUPPORT UNIT	8
8 LABORATORY LOCATION	8
9 TEST INSTRUMENTS LIST	9
10 ANTENNA REQUIREMENT	11
10.1 CONCLUSION	11
11 RADIATED SPURIOUS EMISSIONS	12
11.1 LIMITS	12
11.2 BLOCK DIAGRAM OF TEST SETUP	13
11.3 PROCEDURE	13
11.4 TEST DATA	15
12 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	23
12.1 LIMITS	23
12.2 BLOCK DIAGRAM OF TEST SETUP	24
12.3 PROCEDURE	24
12.4 TEST DATA	26
13 CONDUCTED SPURIOUS EMISSIONS	42
13.1 LIMITS	42
13.2 BLOCK DIAGRAM OF TEST SETUP	42
13.3 TEST DATA	43
14 CONDUCTED BAND EDGES MEASUREMENT	44
14.1 LIMITS	44
14.2 BLOCK DIAGRAM OF TEST SETUP	44
14.3 TEST DATA	45

15 MINIMUM 6DB BANDWIDTH	46
15.1 LIMITS	46
15.2 BLOCK DIAGRAM OF TEST SETUP	46
15.3 TEST DATA	46
16 POWER SPECTRUM DENSITY	47
16.1 LIMITS	47
16.2 BLOCK DIAGRAM OF TEST SETUP	47
16.3 TEST DATA	47
17 CONDUCTED PEAK OUTPUT POWER	48
17.1 LIMITS	48
17.2 BLOCK DIAGRAM OF TEST SETUP	48
17.3 TEST DATA	49
18 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)	50
18.1 LIMITS	50
18.2 BLOCK DIAGRAM OF TEST SETUP	50
18.3 PROCEDURE	50
18.4 TEST DATA	52
19 APPENDIX	54
19.1 MAXIMUM CONDUCTED OUTPUT POWER	54
19.2 -6dB BANDWIDTH	61
19.3 OCCUPIED CHANNEL BANDWIDTH	68
19.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL	75
19.5 BAND EDGE	82
19.6 CONDUCTED RF SPURIOUS EMISSION	91
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	104
APPENDIX B: PHOTOGRAPHS OF EUT	106

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(1) & 15.247(b)(3)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass

2 GENERAL INFORMATION

Applicant	SHENZHEN AONI ELECTRONIC CO., LTD.
Address	No.5,Bldg., Honghui Industrial Park, 2nd Liuxian Road, Xin' An streets, Bao'an District, Shenzhen, P.R.china
Manufacturer	Zhongshan KMETV Technology Co.,Ltd.
Address	2F, Building A, No.45, Industrial Avenue Middle, Xiaolan Town, Zhongshan City, China
Factory	Zhongshan KMETV Technology Co.,Ltd.
Address	2F, Building A, No.45, Industrial Avenue Middle, Xiaolan Town, Zhongshan City, China
Product Name	Indoor Wi-Fi IP Plug In 3MP Deterrence Camera with Pan, Tilt and 2-Way Audio - White
Test Model No.	WCM-FWIP3PT-I
Extension Model	CAM-FWIP3PT-IN,CAM-2PK-FWIP3PT-IN,1PK-WCM-FWIP3PT-I-WA,2PK-WCM-FWIP3PT-I-WA,WCM-FWIP3PT-I-WA,WCM-FWIP3PT-I-CN13
Remark	All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.1
Software Version	V1.0.44
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type:	Integrated antenna
Antenna gain:	Antenna:3dBi
Remark: The Antenna Gain is supplied by the customer. BlueAsia is not responsible for this data	

4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25℃	DC5V

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation. (Duty cycle>98%)
Remark: Only the data of the worst mode would be recorded in this report.	

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)

8 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

9 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber 1	SKET	966	N/A	2020/11/10	2023/11/9
Chamber 2	SKET	966	N/A	2021/07/20	2024/07/19
Spectrum	R&S	FSP40	100817	2022/09/15	2023/09/14
Receiver	R&S	ESR7	101199	2022/09/15	2023/09/14
Receiver	R&S	ESPI7	101477	2022/07/16	2024/07/15
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2022/09/15	2023/09/14
Horn Antenna	Schwarzbeck	BBHA9120D	01892 P:00331	2022/09/13	2025/09/12
Amplifier	SKET	LNPA_30M01G-30	SK2021060801	2022/07/16	2024/07/15
Amplifier	SKET	PA-000318G-45	N/A	2022/09/13	2023/09/12
Amplifier	SKET	LNPA_18G40G-50	SK2022071301	2022/07/14	2024/07/13
Filter group	SKET	2.4G/5G Filter group r	N/A	2022/07/16	2024/07/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2022/9/14	2025/9/13
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A
SignalGenerator	Agilent	N5182A	MY47420955	2022/9/7	2023/9/6
Audio Analyzer	ATS-1	Audio Precision	ATS141094	2023/07/01	2024/06/30
Electric and Magnetic Field Analyzer	EHP-200A	Narda	180ZX11016	2023/03/30	2024/03/29
Audio shielding box	SB-ABT-C35	SKET	N/A	2022/09/14	2023/09/13
1kHz calibration audio source	MCS-ABT-C35	SKET	N/A	2022/09/14	2023/09/13
Free Field Microphone	MG5 MP 663	SKET	0414	2022/09/09	2023/09/08

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2022/09/14	2023/09/13
LISN	R&S	ENV216	3560.6550.15	2022/09/14	2023/09/13
LISN	AT	AT166-2	AKK1806000003	2022/09/14	2023/09/13
ISN	TESEQ	ISNT8-cat6	53580	2022/09/14	2023/09/13
Single-channel vehicle artificial power network	Schwarzbeck	NNBM 8124	01045	2022/08/17	2024/08/16
Single-channel vehicle artificial power network	Schwarzbeck	NNBM 8124	01075	2022/08/17	2024/08/16
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

Test Equipment Of RF Conducted Test					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2022/09/15	2023/09/14
Spectrum	Agilent	N9020A	MY49100060	2022/09/07	2023/09/06
Spectrum	KEYSIGHT	N9030A	MY52350152	2022/07/01	2024/06/30
Spectrum	KEYSIGHT	N9010A	MY54330814	2022/07/01	2024/06/30
Signal Generator	Agilent	N5182A	MY47420955	2022/09/07	2023/09/06
Signal Generator	Agilent	E8257D	MY44320250	2022/07/01	2024/06/30
Signal Generator	Agilent	N5181A	MY46240904	2022/08/02	2024/08/01
Signal Generator	R&S	CMW500	132429	2022/09/07	2023/09/06
BluetoothTester	Anritsu	MT8852B	06262047872	2022/09/07	2023/09/06
Power probe	DARE	RPR3006W	14I00889SN042	2022/09/07	2023/09/06
DCPowersupply	zhaoxin	KXN-305D	20K305D1221363	2022/09/14	2023/09/13
DCPowersupply	zhaoxin	RXN-1505D	19R1505D050168	2022/09/14	2023/09/13
Audio Analyzer	Audioprecision	N/A	ATSI-41094	2022/7/1	2024/6/30
2.4GHz/5GHz RF Test software	MTS	MTS 8310	Version 2.0.0.0	N/A	N/A

10 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

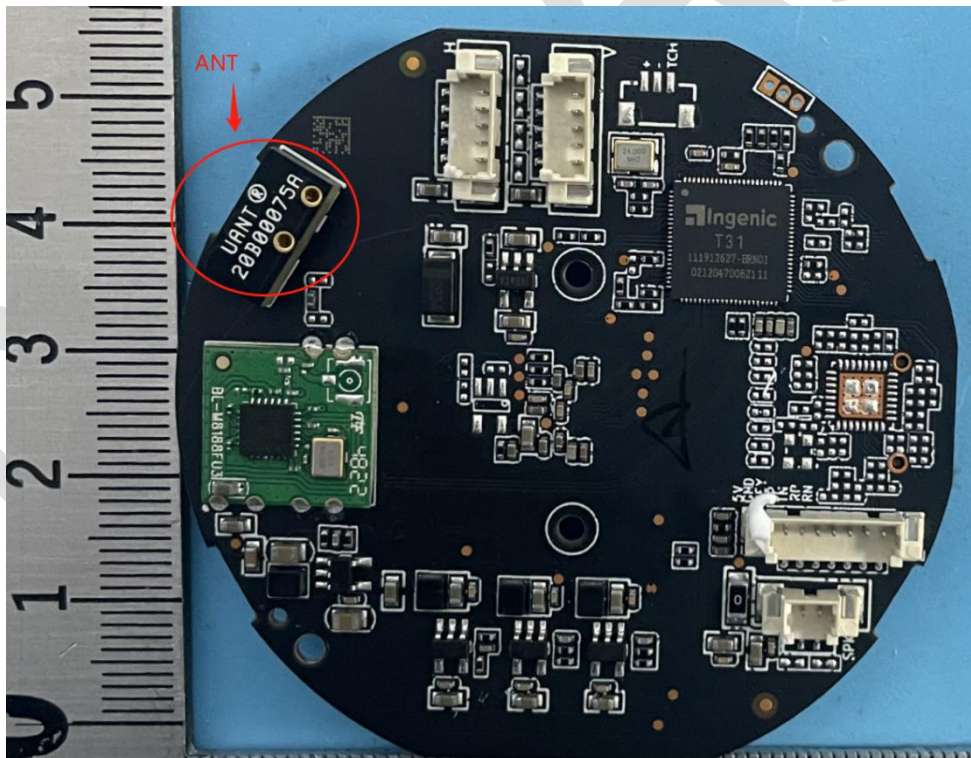
10.1 CONCLUSION

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 3dBi.



11 RADIATED SPURIOUS EMISSIONS

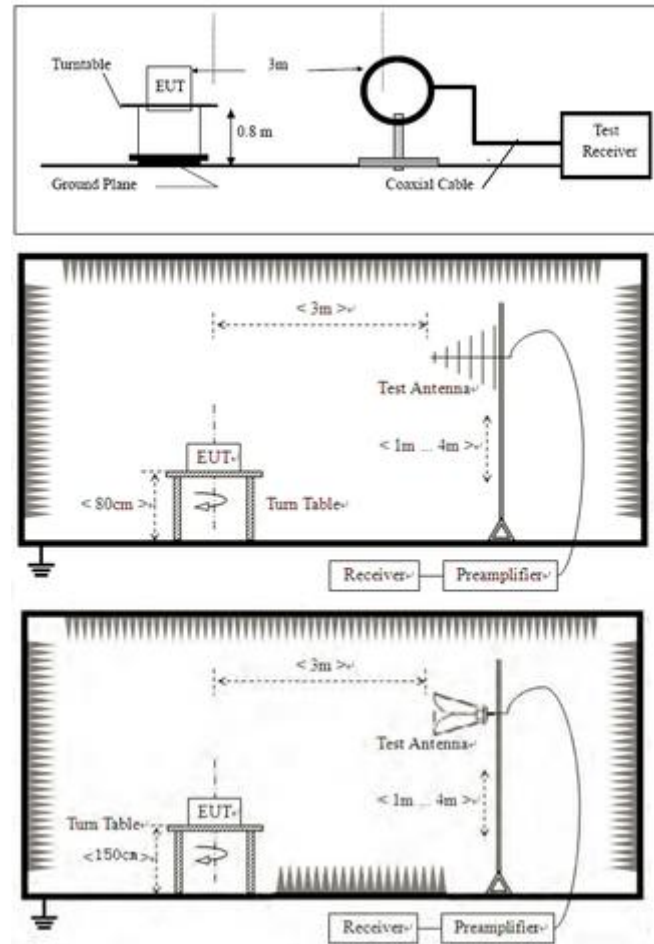
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

11.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

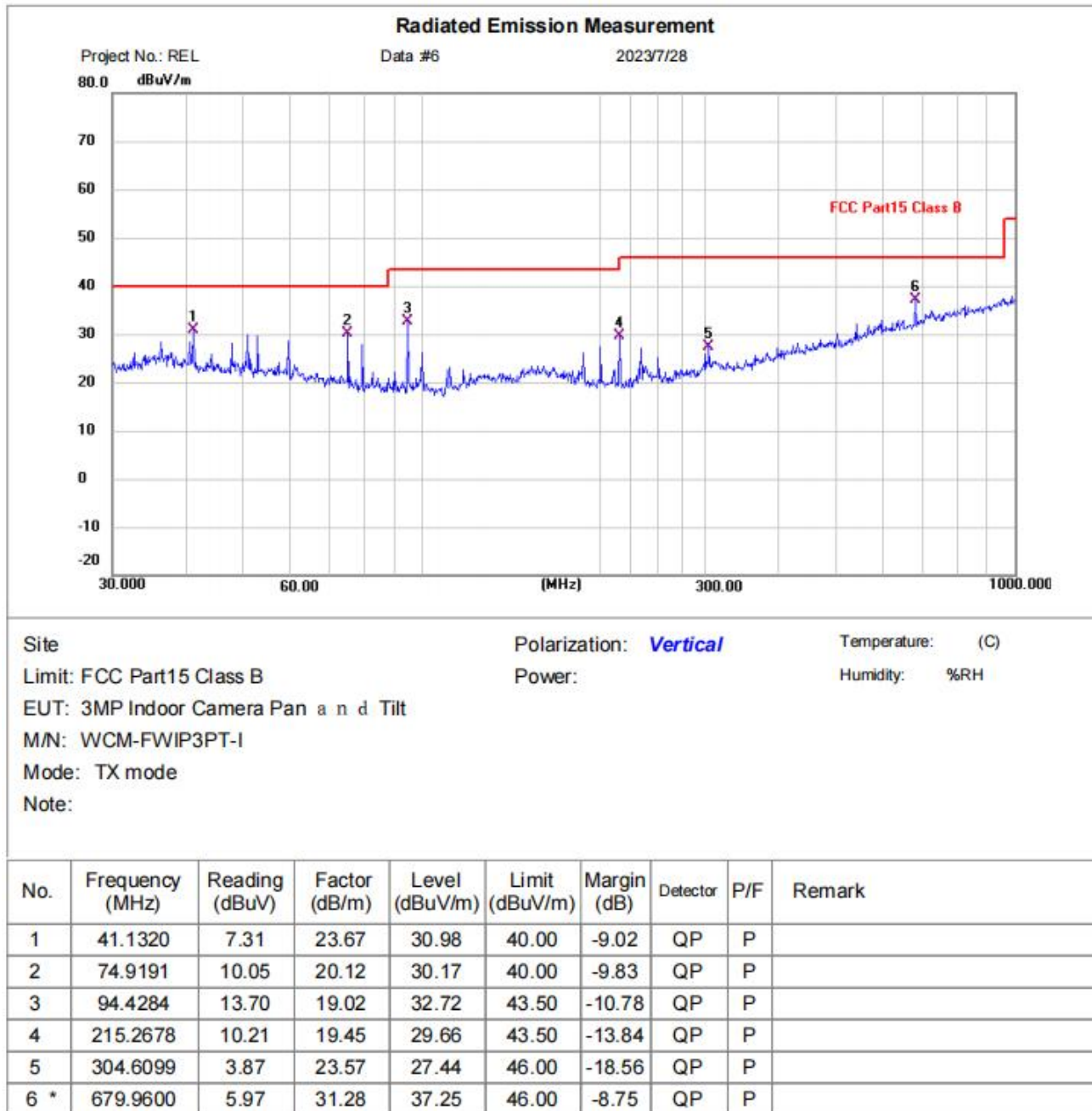
Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

11.4 TEST DATA

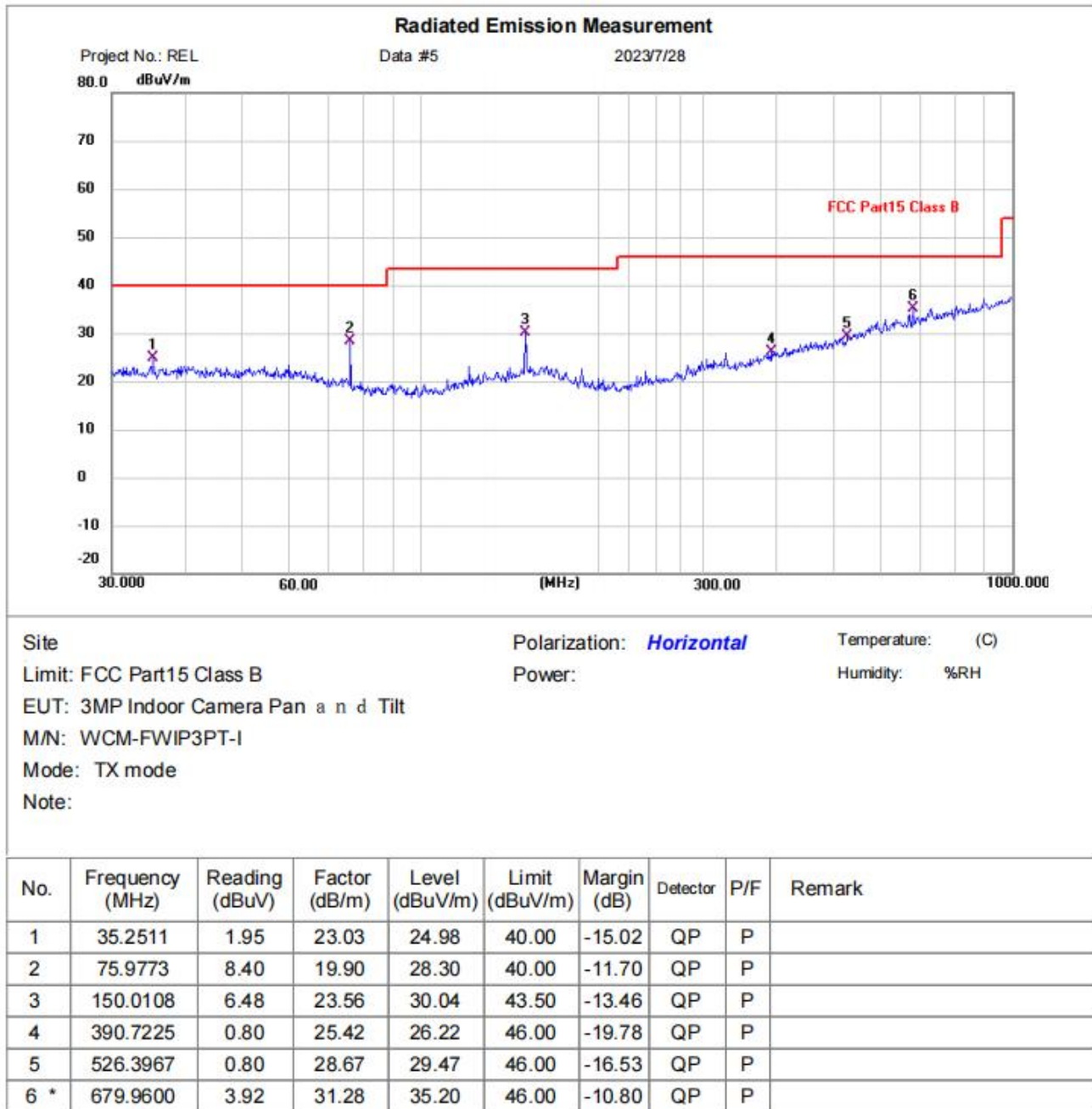
Remark: During the test, pre-scan the 802.11b/g/n mode, and found the 802.11b mode which it is worse case.

[TestMode: TX mode (SE) below 1G]; [Polarity: Vertical]



Test Result: Pass

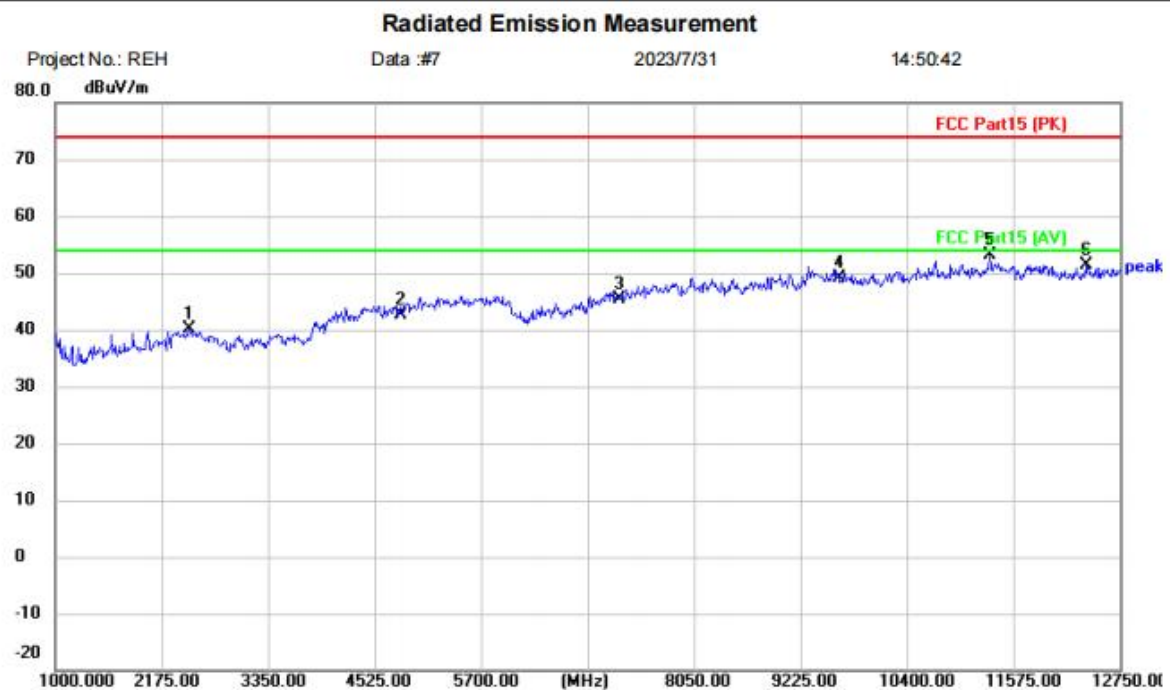
[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]



Test Result: Pass

Above 1GHz:

[TestMode: TX B low channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: 3MP Indoor Camera Pan a n d Tilt

M/N: WCM-FWIP3PT-I

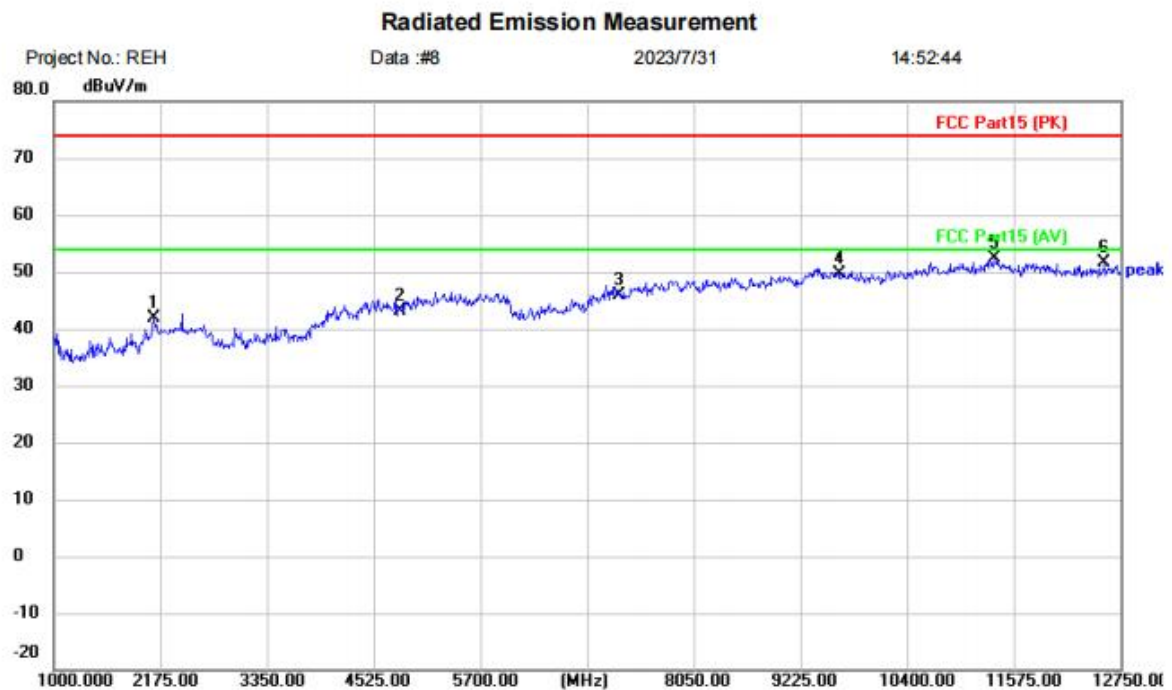
Mode: 2.4GWIFI-11B-TX-L

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2480.500	42.76	-2.71	40.05	74.00	-33.95	peak	
2		4824.000	38.23	4.52	42.75	74.00	-31.25	peak	
3		7236.000	37.96	7.47	45.43	74.00	-28.57	peak	
4		9648.000	37.58	11.63	49.21	74.00	-24.79	peak	
5	*	11316.50	39.74	13.39	53.13	74.00	-20.87	peak	
6		12374.00	38.90	12.52	51.42	74.00	-22.58	peak	

Test Result: Pass

[TestMode: TX B low channel]; [Polarity: Vertical]

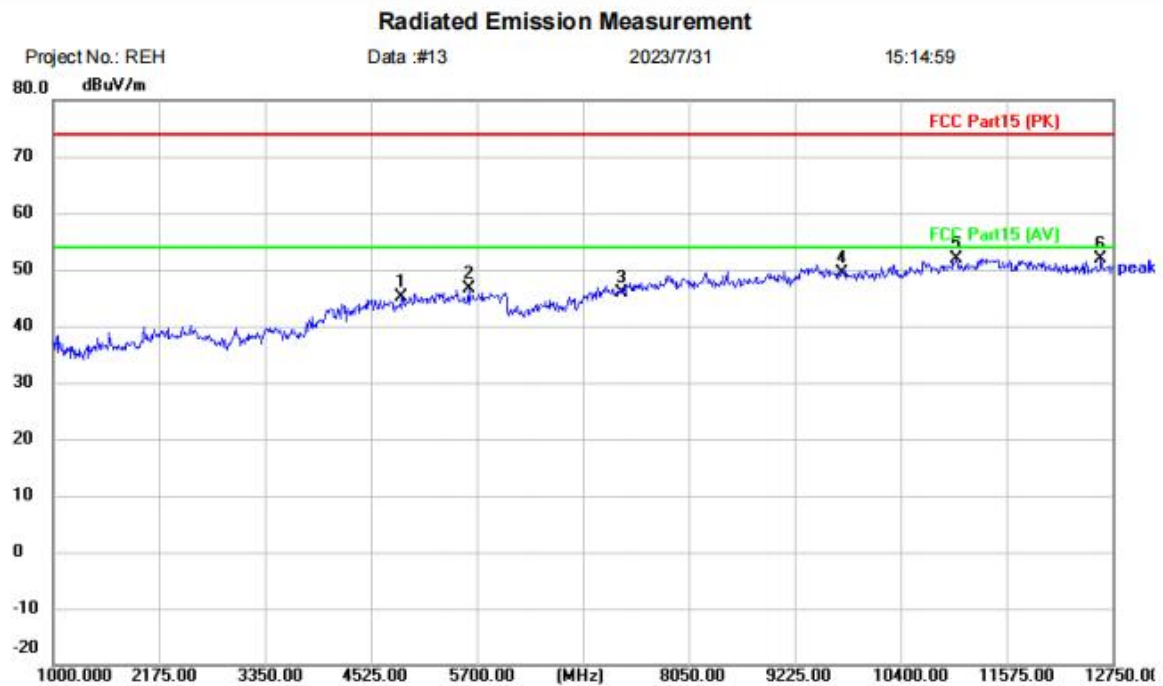


Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan and Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11B-TX-L
Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2104.500	46.27	-4.43	41.84	74.00	-32.16	peak	
2	4824.000	38.51	4.52	43.03	74.00	-30.97	peak	
3	7236.000	38.42	7.47	45.89	74.00	-28.11	peak	
4	9648.000	38.00	11.63	49.63	74.00	-24.37	peak	
5 *	11363.50	38.97	13.40	52.37	74.00	-21.63	peak	
6	12573.75	38.89	12.64	51.53	74.00	-22.47	peak	

Test Result: Pass

[TestMode: TX B mid channel]; [Polarity: Horizontal]

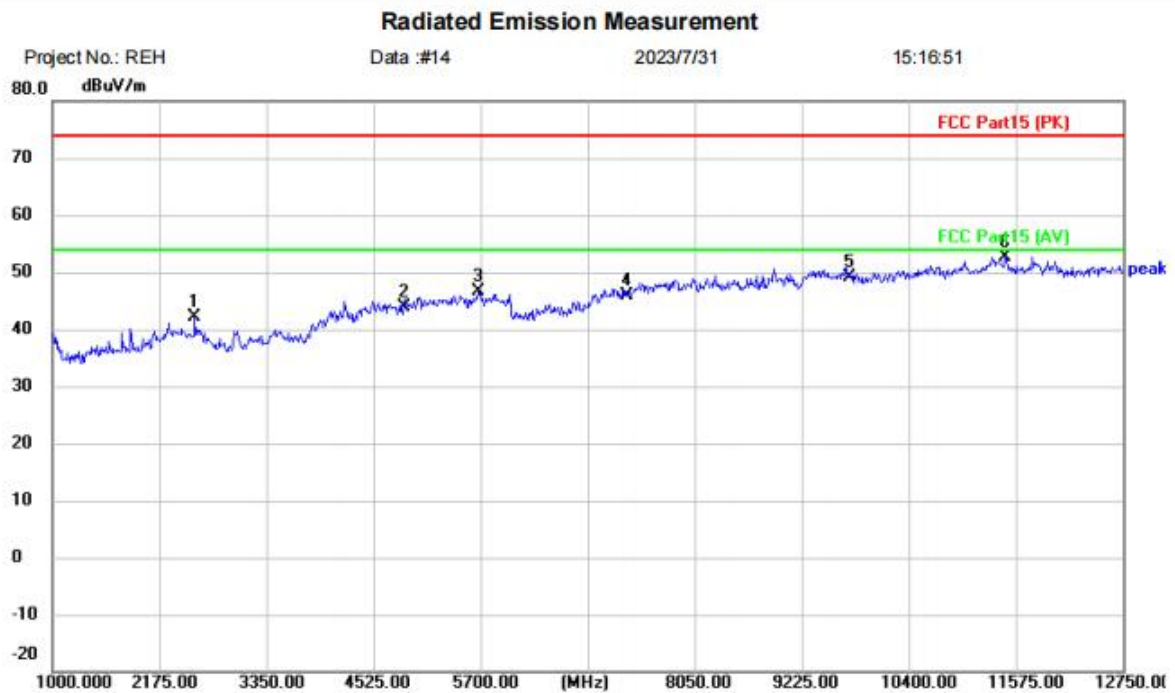


Site: Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11B-TX-M
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	40.66	4.58	45.24	74.00	-28.76	peak	
2		5606.000	40.72	5.83	46.55	74.00	-27.45	peak	
3		7311.000	37.97	7.80	45.77	74.00	-28.23	peak	
4		9748.000	37.59	11.71	49.30	74.00	-24.70	peak	
5	*	11022.75	38.27	13.69	51.96	74.00	-22.04	peak	
6		12620.75	39.21	12.65	51.86	74.00	-22.14	peak	

Test Result: Pass

[TestMode: TX B mid channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: 3MP Indoor Camera Pan a n d Tilt

M/N: WCM-FWIP3PT-I

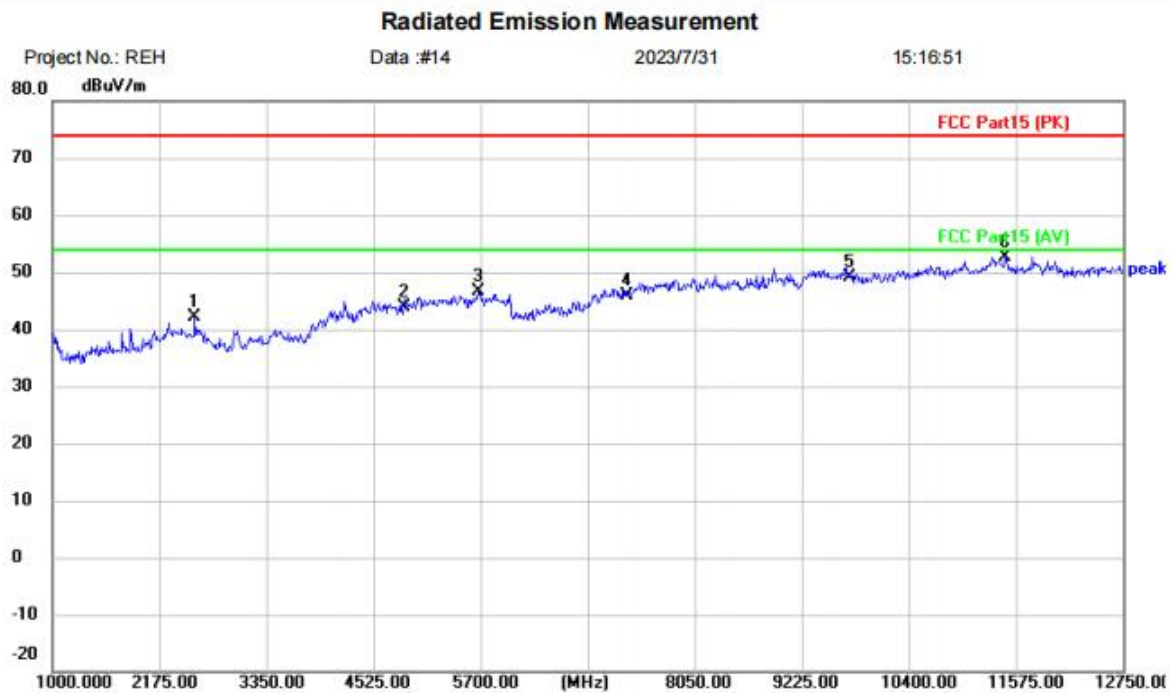
Mode: 2.4GWIFI-11B-TX-M

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2562.750	45.63	-3.41	42.22	74.00	-31.78	peak	
2		4874.000	39.31	4.58	43.89	74.00	-30.11	peak	
3		5676.500	40.24	6.32	46.56	74.00	-27.44	peak	
4		7311.000	38.19	7.80	45.99	74.00	-28.01	peak	
5		9748.000	37.38	11.71	49.09	74.00	-24.91	peak	
6	*	11457.50	39.18	13.48	52.66	74.00	-21.34	peak	

Test Result: Pass

[TestMode: TX B mid channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: 3MP Indoor Camera Pan a n d Tilt

M/N: WCM-FWIP3PT-I

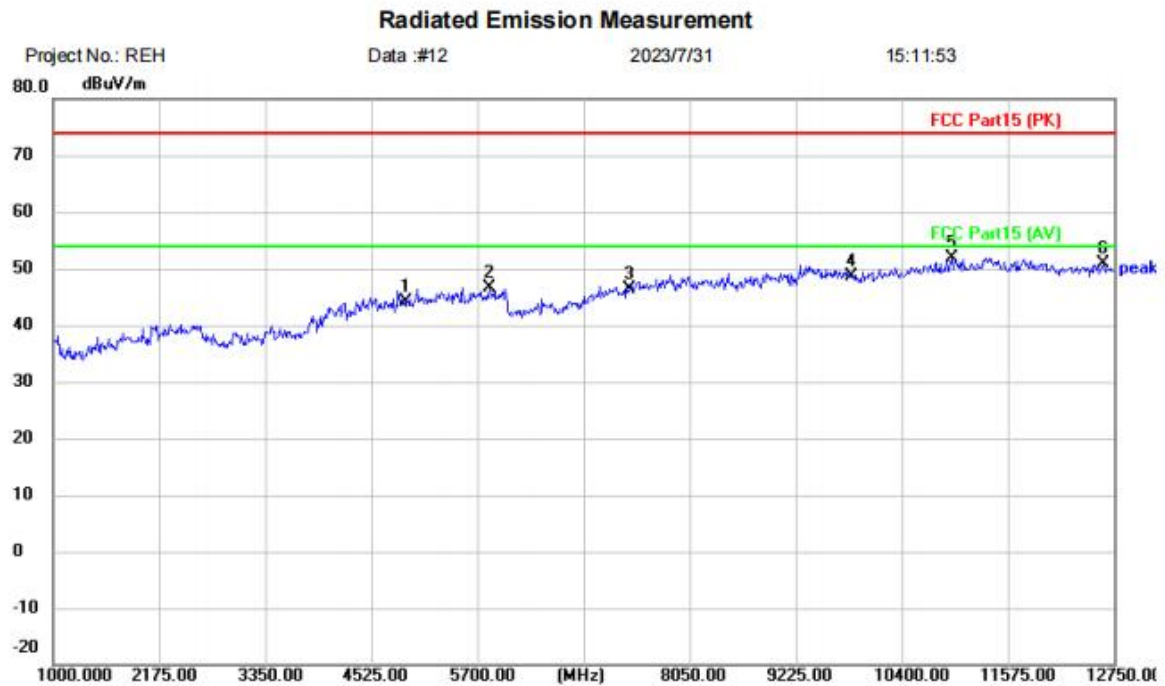
Mode: 2.4GWIFI-11B-TX-M

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	2562.750	45.63	-3.41	42.22	74.00	-31.78	peak	
2	4874.000	39.31	4.58	43.89	74.00	-30.11	peak	
3	5676.500	40.24	6.32	46.56	74.00	-27.44	peak	
4	7311.000	38.19	7.80	45.99	74.00	-28.01	peak	
5	9748.000	37.38	11.71	49.09	74.00	-24.91	peak	
6 *	11457.50	39.18	13.48	52.66	74.00	-21.34	peak	

Test Result: Pass

[TestMode: TX B high channel]; [Polarity: Vertical]

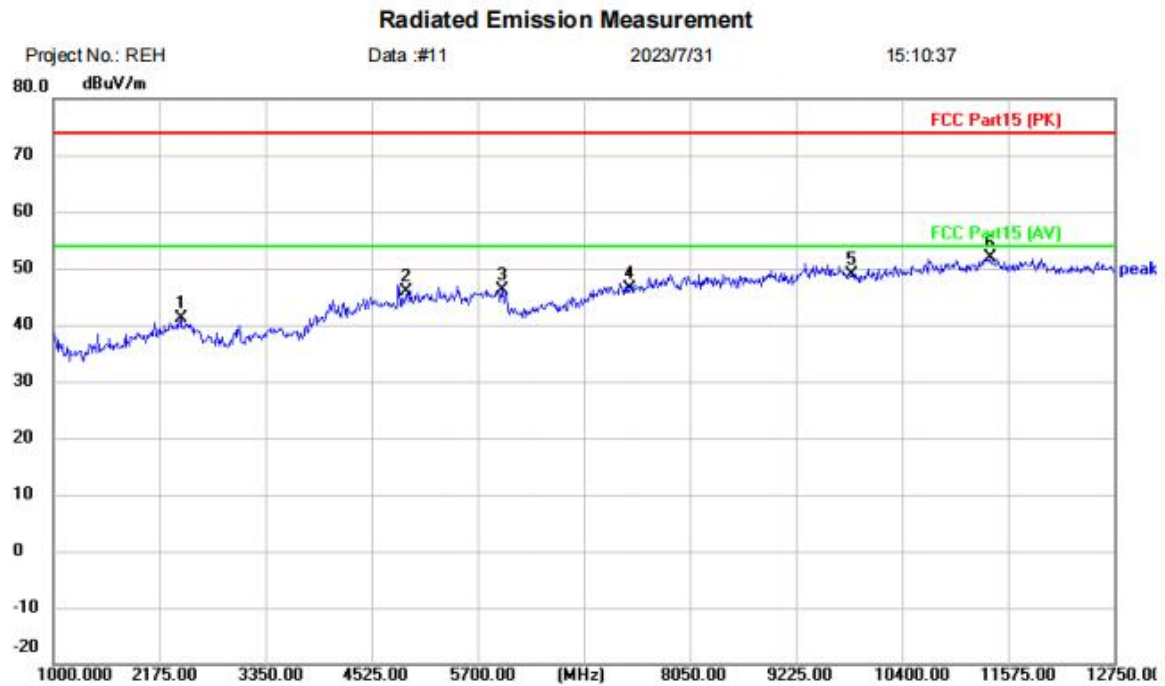


Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11B-TX-H
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.000	39.16	4.96	44.12	74.00	-29.88	peak	
2	5829.250	40.18	6.40	46.58	74.00	-27.42	peak	
3	7386.000	38.52	7.87	46.39	74.00	-27.61	peak	
4	9848.000	36.59	12.00	48.59	74.00	-25.41	peak	
5 *	10952.25	38.36	13.62	51.98	74.00	-22.02	peak	
6	12632.50	38.23	12.65	50.88	74.00	-23.12	peak	

Test Result: Pass

[TestMode: TX B high channel]; [Polarity: Horizontal]



Site: Limit: FCC Part15 (PK) Polarization: **Horizontal** Temperature: (C)
EUT: 3MP Indoor Camera Pan a n d Tilt Power: Humidity: %RH
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11B-TX-H
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2410.000	42.98	-1.78	41.20	74.00	-32.80	peak	
2		4924.000	40.99	4.96	45.95	74.00	-28.05	peak	
3		5970.250	39.44	6.71	46.15	74.00	-27.85	peak	
4		7386.000	38.44	7.87	46.31	74.00	-27.69	peak	
5		9848.000	36.79	12.00	48.79	74.00	-25.21	peak	
6	*	11375.25	38.51	13.40	51.91	74.00	-22.09	peak	

Test Result: Pass

13 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

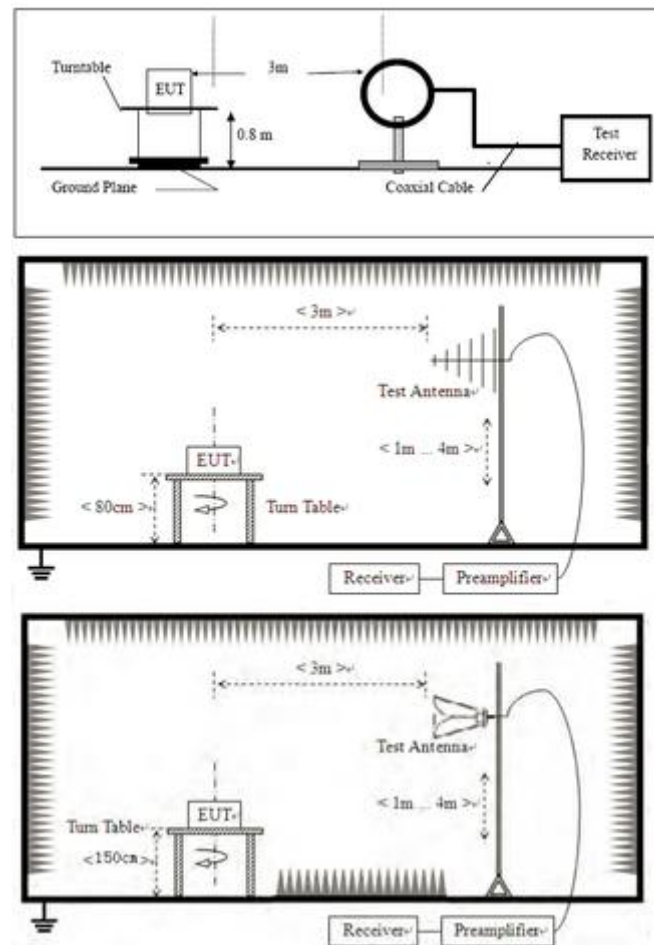
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

13.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

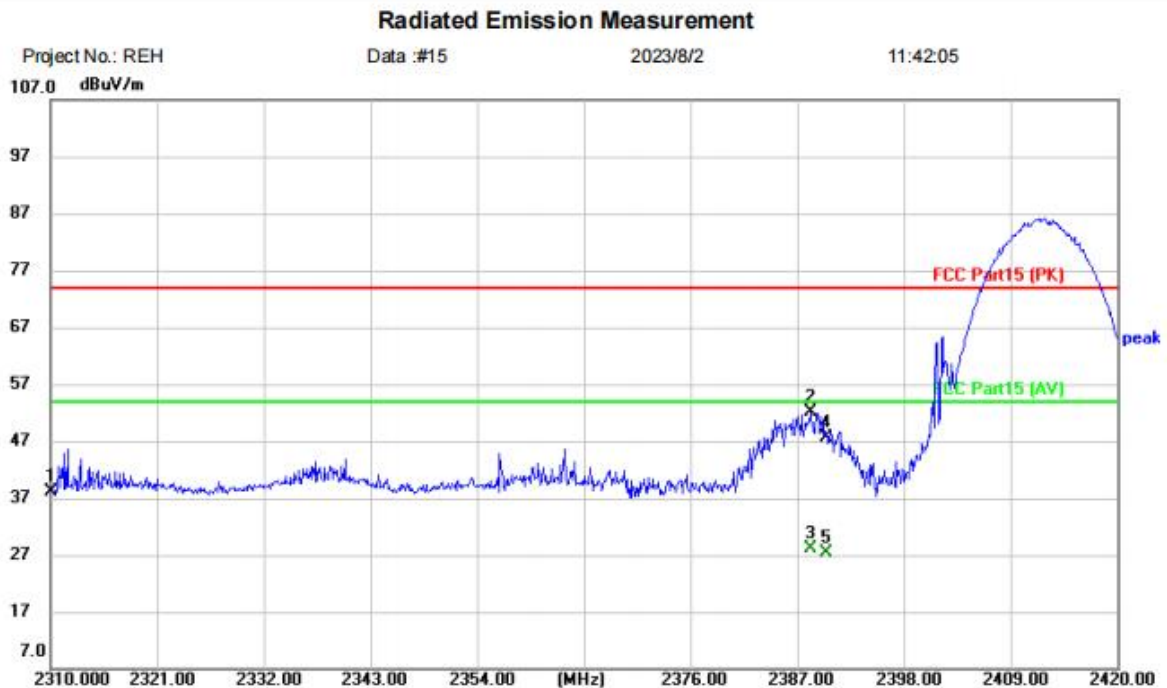
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

13.4 TEST DATA

[TestMode: TX B low channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: 3MP Indoor Camera Pan a n d Tilt

M/N: WCM-FWIP3PT-I

Mode: 2.4GWIFI-11B-TX-L

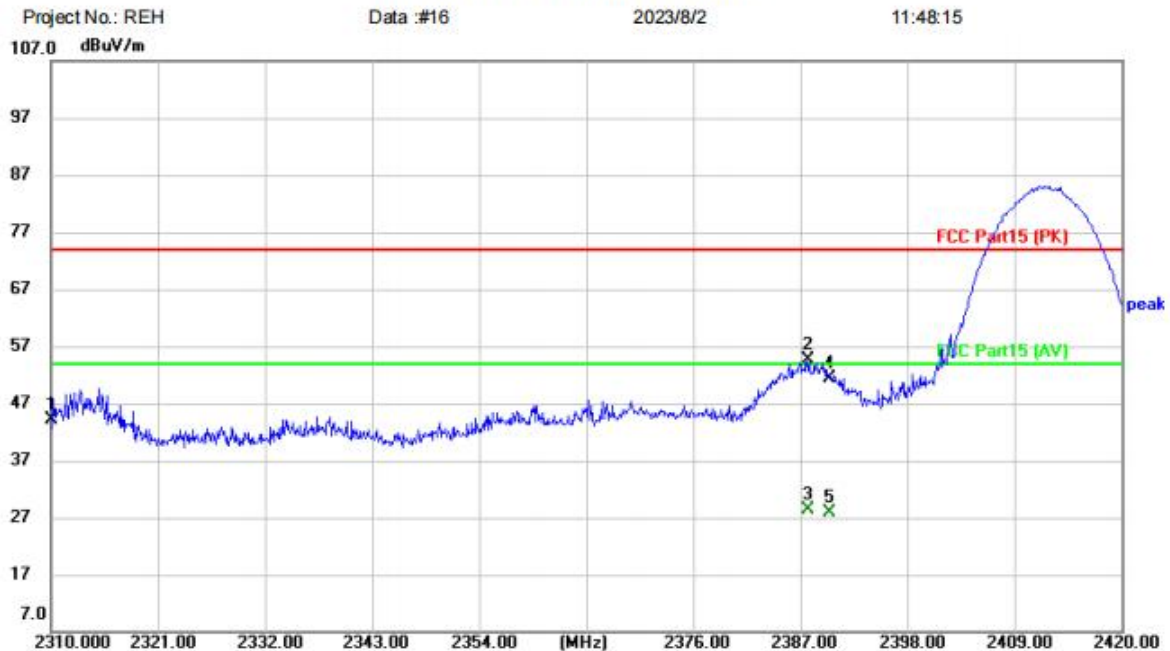
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2310.000	42.63	-4.40	38.23	74.00	-35.77	peak
2	*	2388.320	56.42	-4.31	52.11	74.00	-21.89	peak
3		2388.320	32.37	-4.31	28.06	54.00	-25.94	AVG
4		2390.000	51.84	-4.31	47.53	74.00	-26.47	peak
5		2390.000	31.69	-4.31	27.38	54.00	-26.62	AVG

Test Result: Pass

[TestMode: TX B low channel]; [Polarity: Vertical]

Radiated Emission Measurement

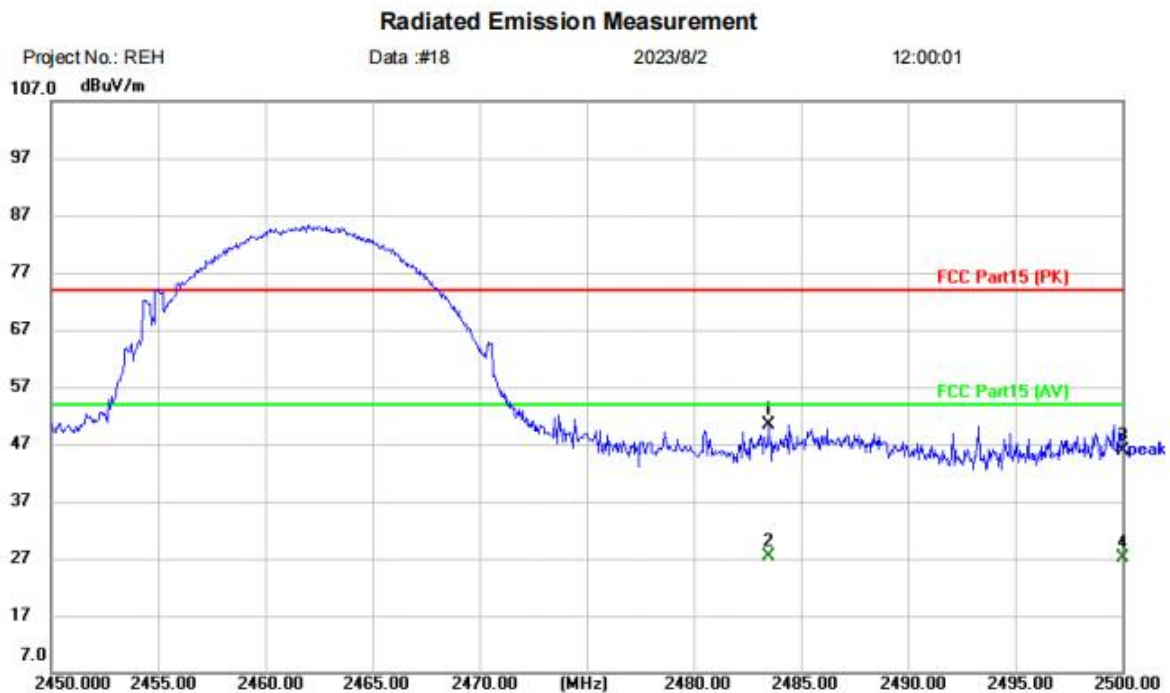


Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11B-TX-L
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	48.63	-4.40	44.23	74.00	-29.77	peak	
2	*	2387.880	58.91	-4.31	54.60	74.00	-19.40	peak	
3		2387.880	32.72	-4.31	28.41	54.00	-25.59	AVG	
4		2390.000	55.67	-4.31	51.36	74.00	-22.64	peak	
5		2390.000	32.13	-4.31	27.82	54.00	-26.18	AVG	

Test Result: Pass

[TestMode: TX B high channel]; [Polarity: Horizontal]

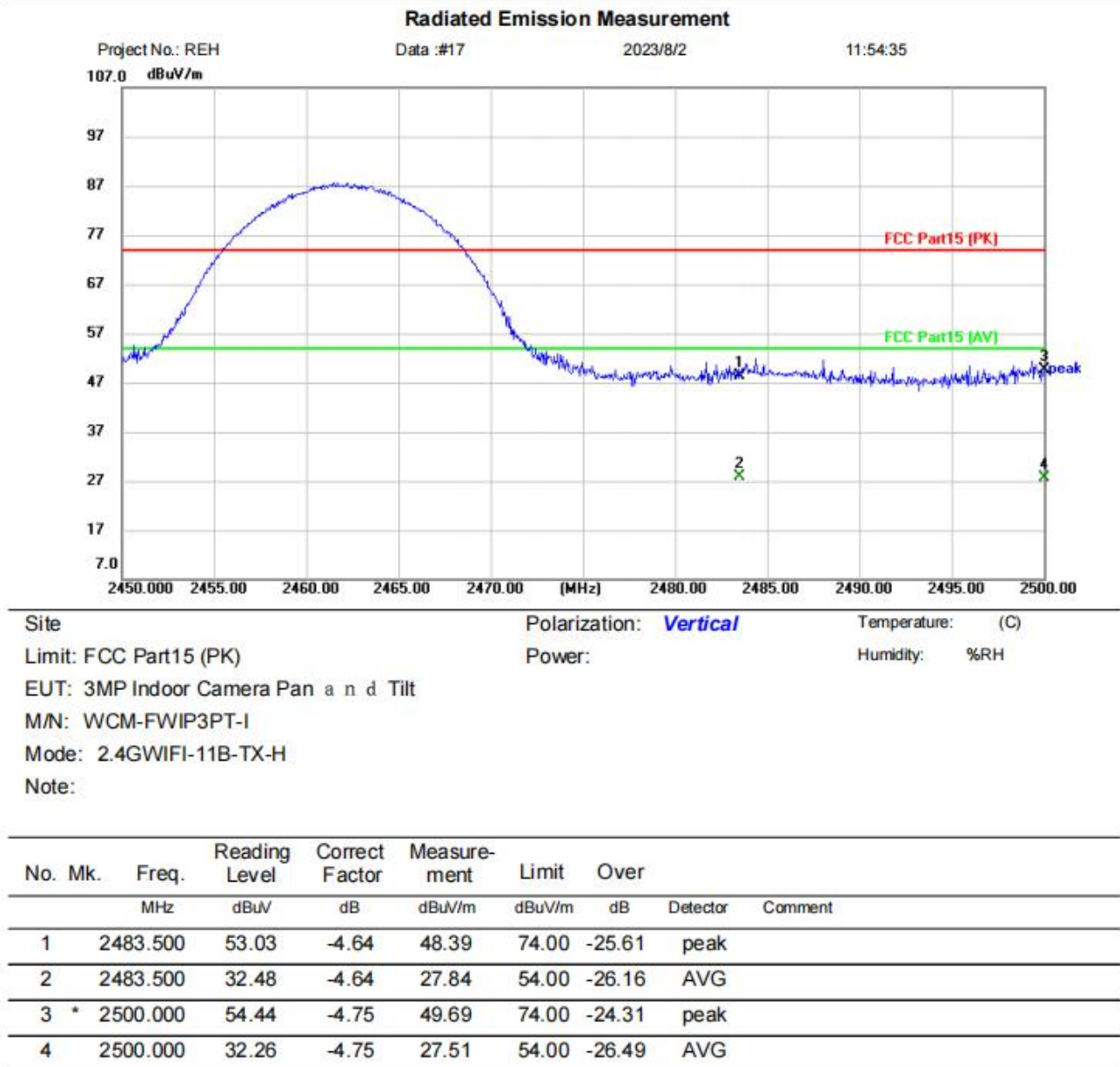


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt		
M/N: WCM-FWIP3PT-I		
Mode: 2.4GWIFI-11B-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	55.05	-4.64	50.41	74.00	-23.59	peak	
2		2483.500	32.11	-4.64	27.47	54.00	-26.53	AVG	
3		2500.000	50.54	-4.75	45.79	74.00	-28.21	peak	
4		2500.000	31.97	-4.75	27.22	54.00	-26.78	AVG	

Test Result: Pass

[TestMode: TX B high channel]; [Polarity: Vertical]



Test Result: Pass

[TestMode: TX G low channel]; [Polarity: Vertical]

Radiated Emission Measurement

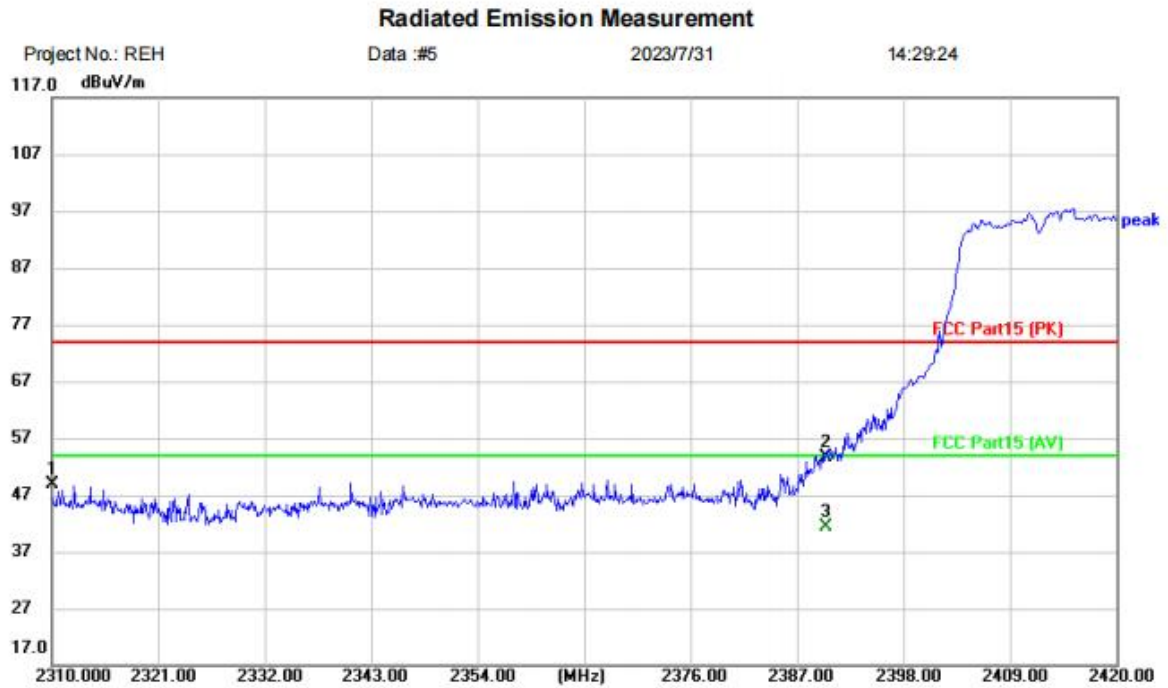


Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11G-TX-L
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	48.27	-4.40	43.87	74.00	-30.13	peak	
2		2390.000	60.93	-4.31	56.62	74.00	-17.38	peak	
3	*	2390.000	51.80	-4.31	47.49	54.00	-6.51	AVG	

Test Result: Pass

[TestMode: TX G low channel]; [Polarity: Horizontal]

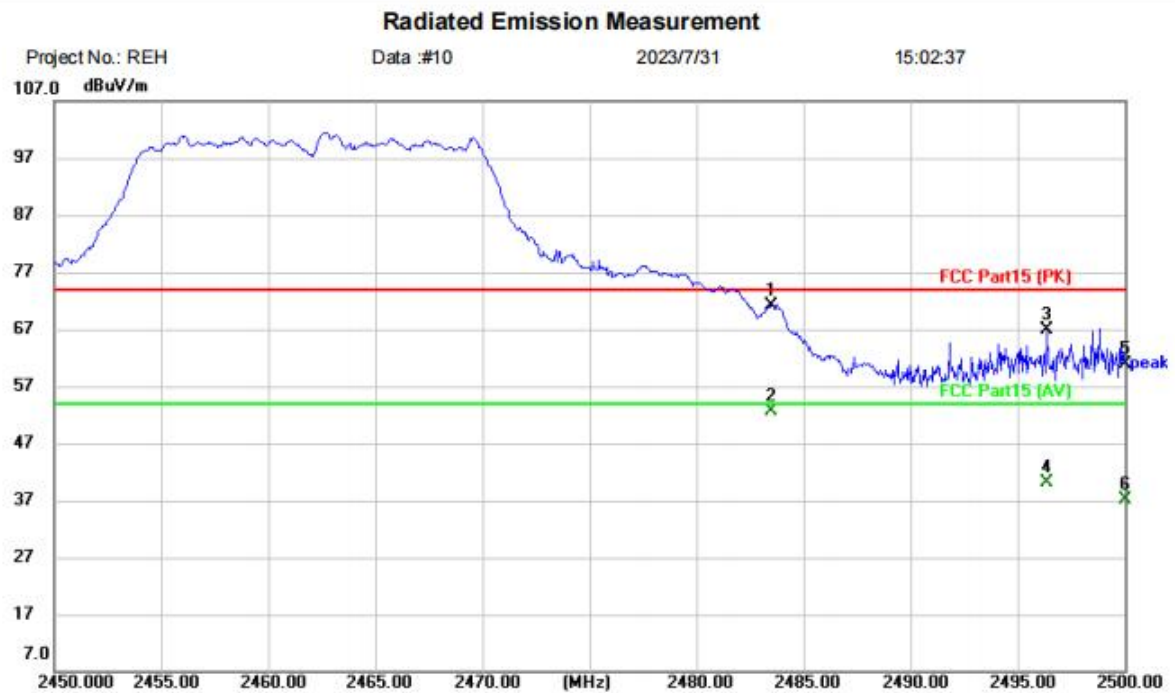


Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11G-TX-L
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	53.38	-4.40	48.98	74.00	-25.02	peak	
2		2390.000	57.87	-4.31	53.56	74.00	-20.44	peak	
3	*	2390.000	45.77	-4.31	41.46	54.00	-12.54	AVG	

Test Result: Pass

[TestMode: TX G high channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: 3MP Indoor Camera Pan a n d Tilt

M/N: WCM-FWIP3PT-I

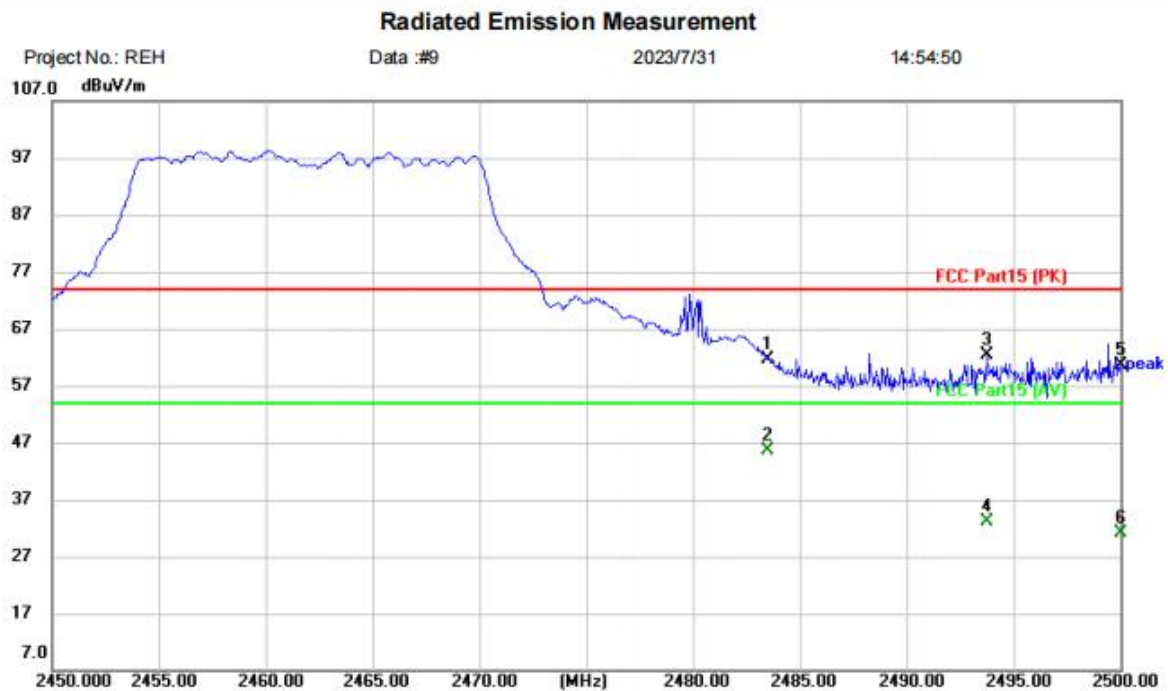
Mode: 2.4GWIFI-11G-TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	75.74	-4.64	71.10	74.00	-2.90	peak	
2	*	2483.500	57.17	-4.64	52.53	54.00	-1.47	AVG	
3		2496.350	71.68	-4.72	66.96	74.00	-7.04	peak	
4		2496.350	44.73	-4.72	40.01	54.00	-13.99	AVG	
5		2500.000	65.70	-4.75	60.95	74.00	-13.05	peak	
6		2500.000	41.89	-4.75	37.14	54.00	-16.86	AVG	

Test Result: Pass

[TestMode: TX G high channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: 3MP Indoor Camera Pan a n d Tilt

M/N: WCM-FWIP3PT-I

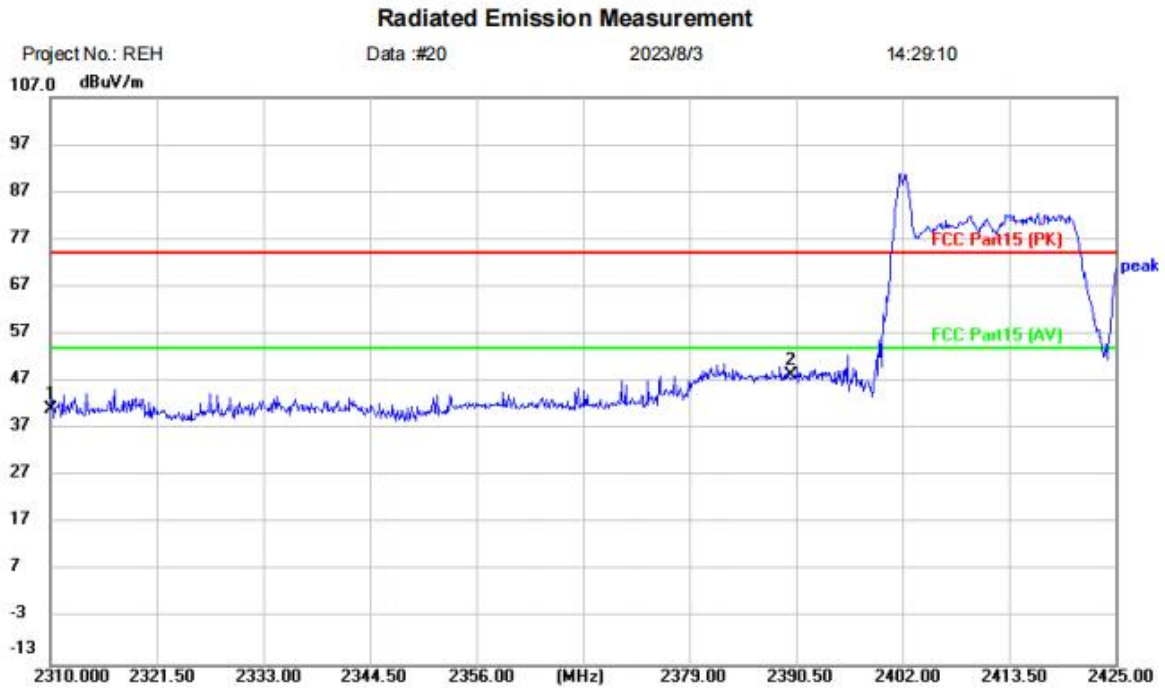
Mode: 2.4GWIFI-11G-TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	66.23	-4.64	61.59	74.00	-12.41	peak	
2	*	2483.500	50.22	-4.64	45.58	54.00	-8.42	AVG	
3		2493.750	66.99	-4.71	62.28	74.00	-11.72	peak	
4		2493.750	37.86	-4.71	33.15	54.00	-20.85	AVG	
5		2500.000	65.35	-4.75	60.60	74.00	-13.40	peak	
6		2500.000	35.89	-4.75	31.14	54.00	-22.86	AVG	

Test Result: Pass

[TestMode: TX N20 low channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N20-TX-L
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	45.68	-4.40	41.28	74.00	-32.72	peak	
2	*	2390.000	52.61	-4.31	48.30	74.00	-25.70	peak	

Test Result: Pass

[TestMode: TX N20 low channel]; [Polarity: Horizontal]

Radiated Emission Measurement

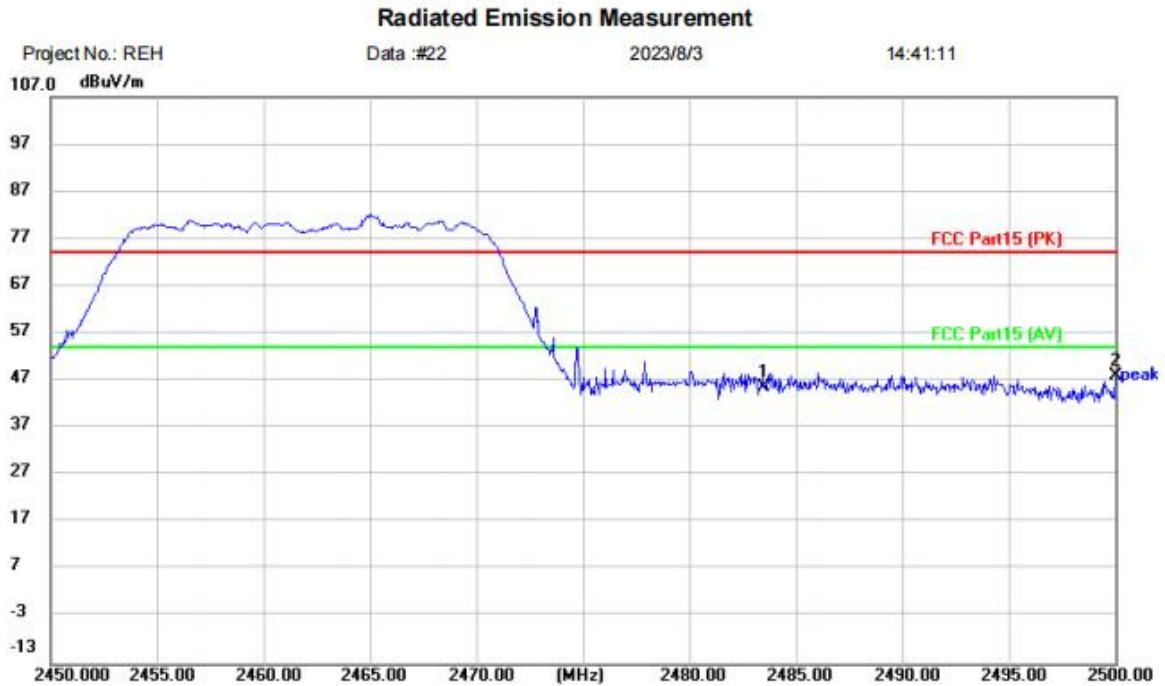


Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N20-TX-L
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	43.39	-4.40	38.99	74.00	-35.01	peak	
2	*	2390.000	52.03	-4.31	47.72	74.00	-26.28	peak	

Test Result: Pass

[TestMode: TX N20 high channel]; [Polarity: Vertical]

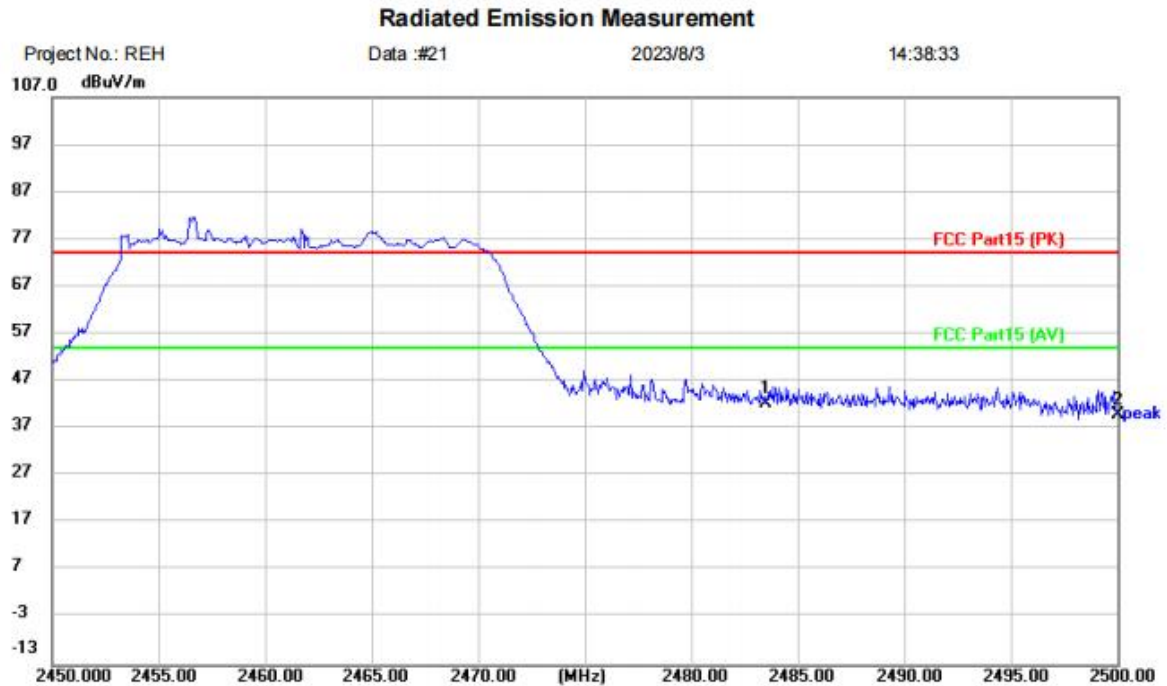


Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N20-TX-H
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	50.24	-4.64	45.60	74.00	-28.40	peak	
2	*	2500.000	52.85	-4.75	48.10	74.00	-25.90	peak	

Test Result: Pass

[TestMode: TX N20 high channel]; [Polarity: Horizontal]

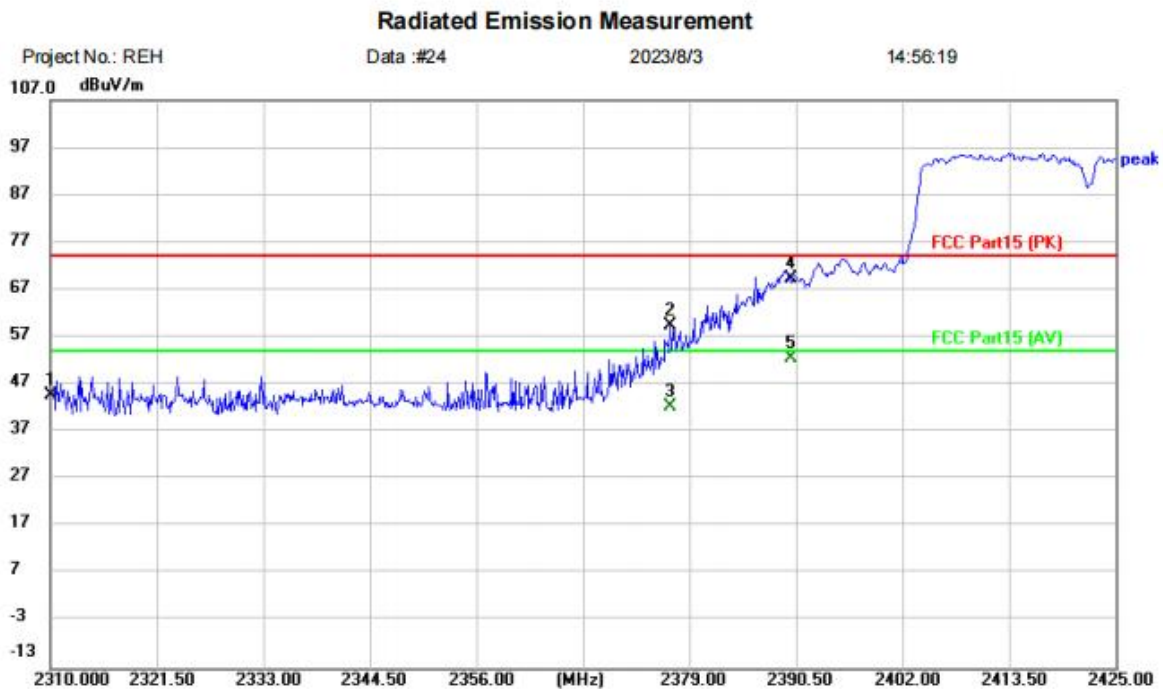


Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N20-TX-H
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	47.05	-4.64	42.41	74.00	-31.59	peak	
2		2500.000	44.69	-4.75	39.94	74.00	-34.06	peak	

Test Result: Pass

[TestMode: TX N40 low channel]; [Polarity: Vertical]

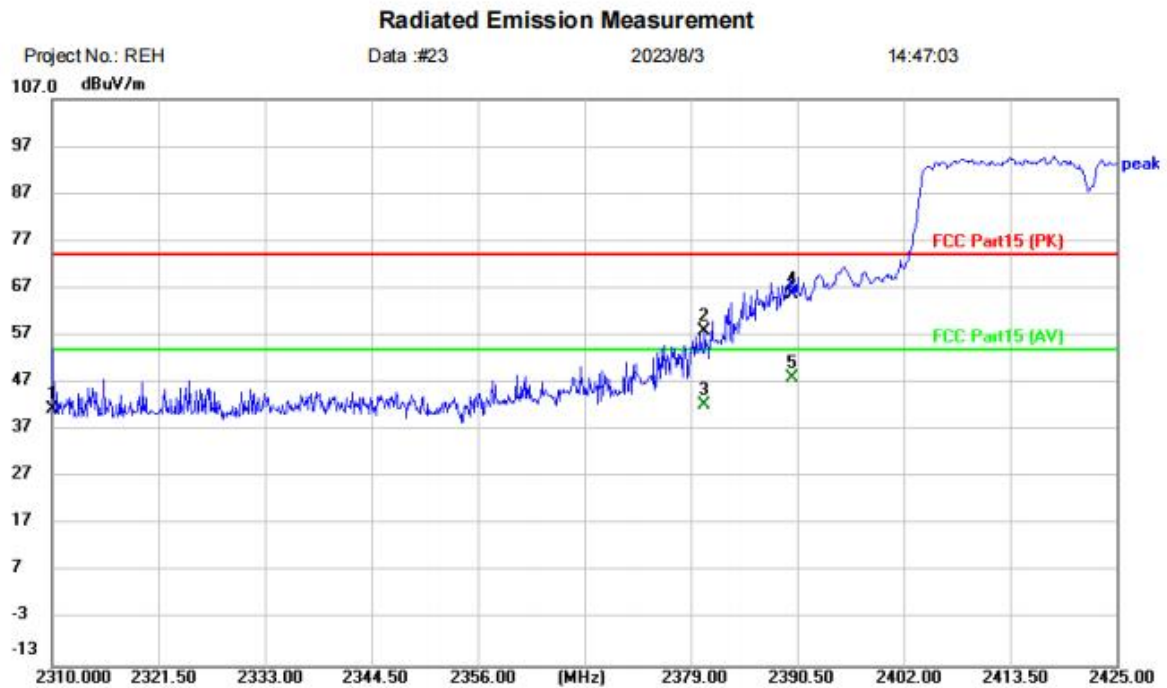


Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N40-TX-L
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	49.28	-4.40	44.88	74.00	-29.12	peak	
2		2376.930	63.80	-4.31	59.49	74.00	-14.51	peak	
3		2376.930	46.58	-4.31	42.27	54.00	-11.73	AVG	
4		2390.000	73.53	-4.31	69.22	74.00	-4.78	peak	
5	*	2390.000	56.81	-4.31	52.50	54.00	-1.50	AVG	

Test Result: Pass

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

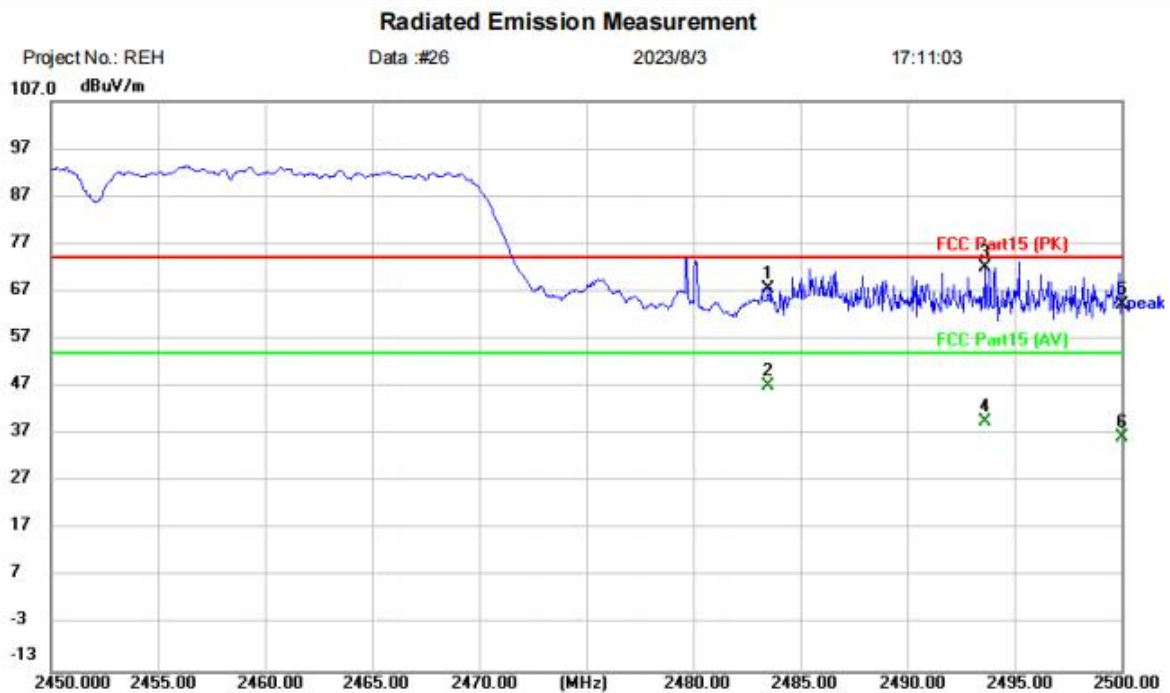


Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N40-TX-L
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	45.88	-4.40	41.48	74.00	-32.52	peak	
2		2380.495	62.20	-4.31	57.89	74.00	-16.11	peak	
3		2380.495	46.78	-4.31	42.47	54.00	-11.53	AVG	
4		2390.000	70.04	-4.31	65.73	74.00	-8.27	peak	
5	*	2390.000	52.26	-4.31	47.95	54.00	-6.05	AVG	

Test Result: Pass

[TestMode: TX N40 high channel]; [Polarity: Vertical]

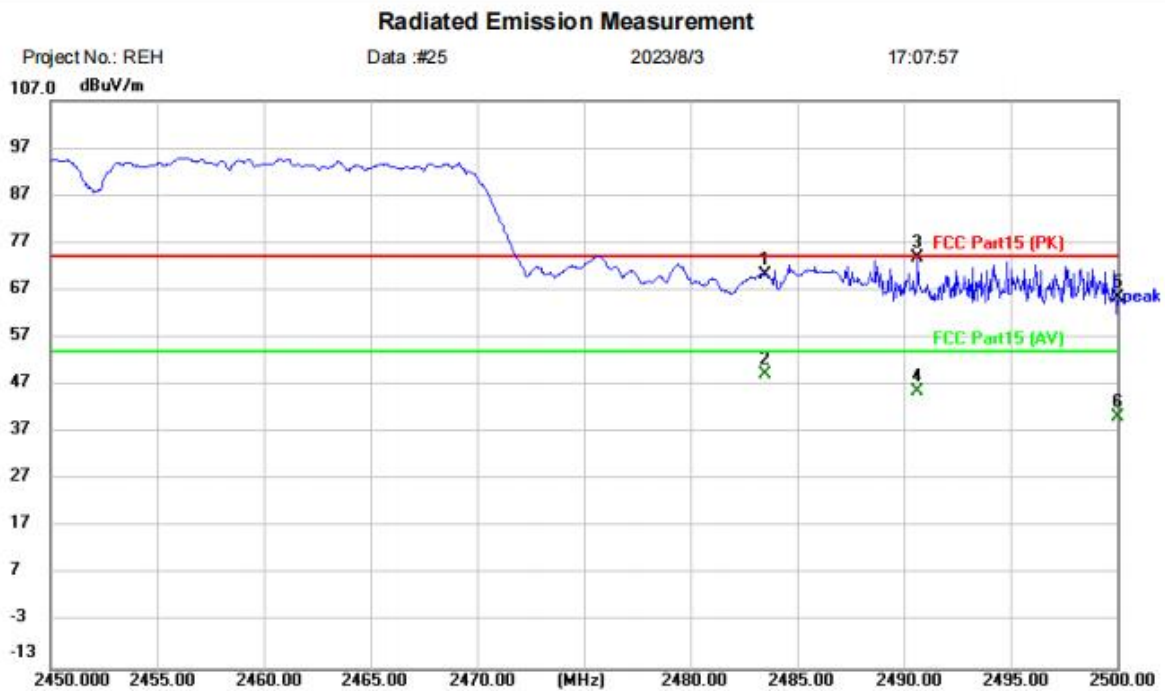


Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N40-TX-H
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	72.08	-4.64	67.44	74.00	-6.56	peak	
2		2483.500	51.77	-4.64	47.13	54.00	-6.87	AVG	
3	*	2493.650	76.90	-4.71	72.19	74.00	-1.81	peak	
4		2493.650	44.39	-4.71	39.68	54.00	-14.32	AVG	
5		2500.000	68.93	-4.75	64.18	74.00	-9.82	peak	
6		2500.000	41.14	-4.75	36.39	54.00	-17.61	AVG	

Test Result: Pass

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



Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: 3MP Indoor Camera Pan a n d Tilt
M/N: WCM-FWIP3PT-I
Mode: 2.4GWIFI-11N40-TX-H
Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2483.500	74.95	-4.64	70.31	74.00	-3.69	peak	
2	2483.500	53.75	-4.64	49.11	54.00	-4.89	AVG	
3 *	2490.650	78.64	-4.69	73.95	74.00	-0.05	peak	
4	2490.650	50.44	-4.69	45.75	54.00	-8.25	AVG	
5	2500.000	70.10	-4.75	65.35	74.00	-8.65	peak	
6	2500.000	45.10	-4.75	40.35	54.00	-13.65	AVG	

Test Result: Pass

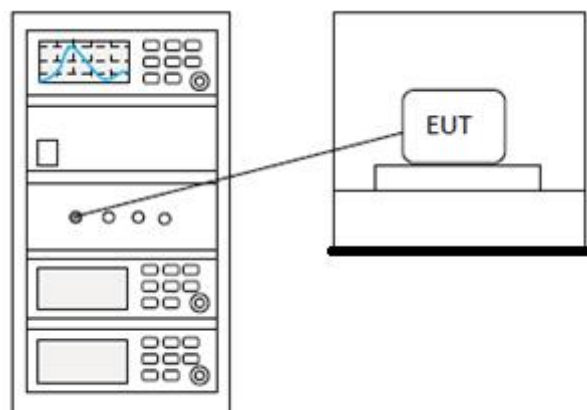
14 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

14.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

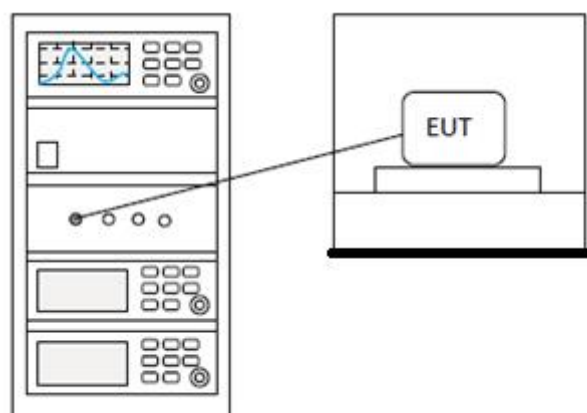
15 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

15.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST DATA**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia

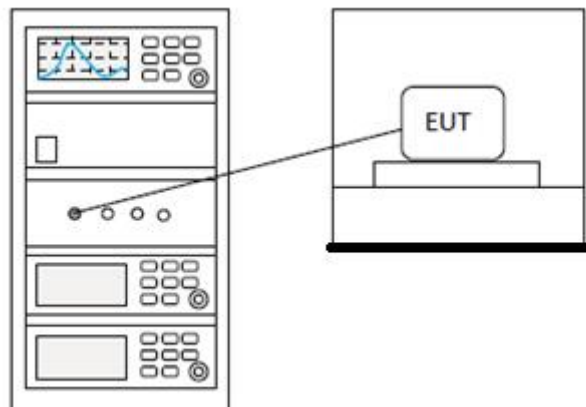
16 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

16.1 LIMITS

Limit:	≥ 500 kHz
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16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

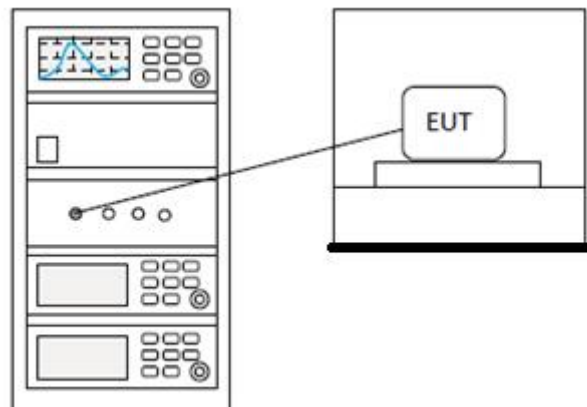
17 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25°C
Humidity	60%

17.1 LIMITS

Limit: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

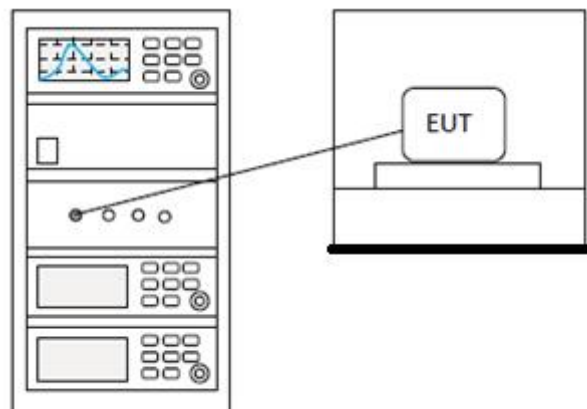
18 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

18.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq \text{hopping channels} < 50$
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

18.2 BLOCK DIAGRAM OF TEST SETUP



18.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

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

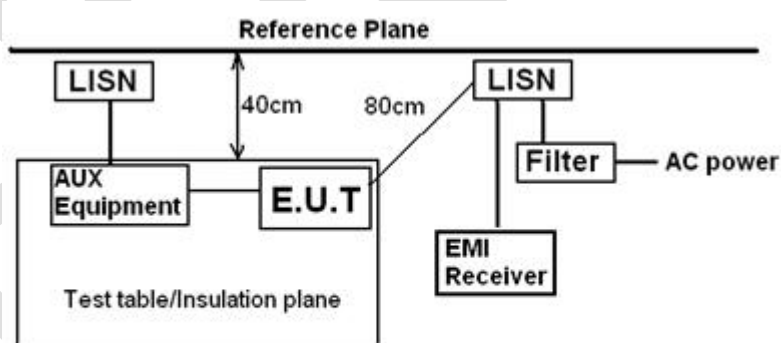
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	William
Temperature	25℃
Humidity	60%

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



Remark:
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

19.3 PROCEDURE

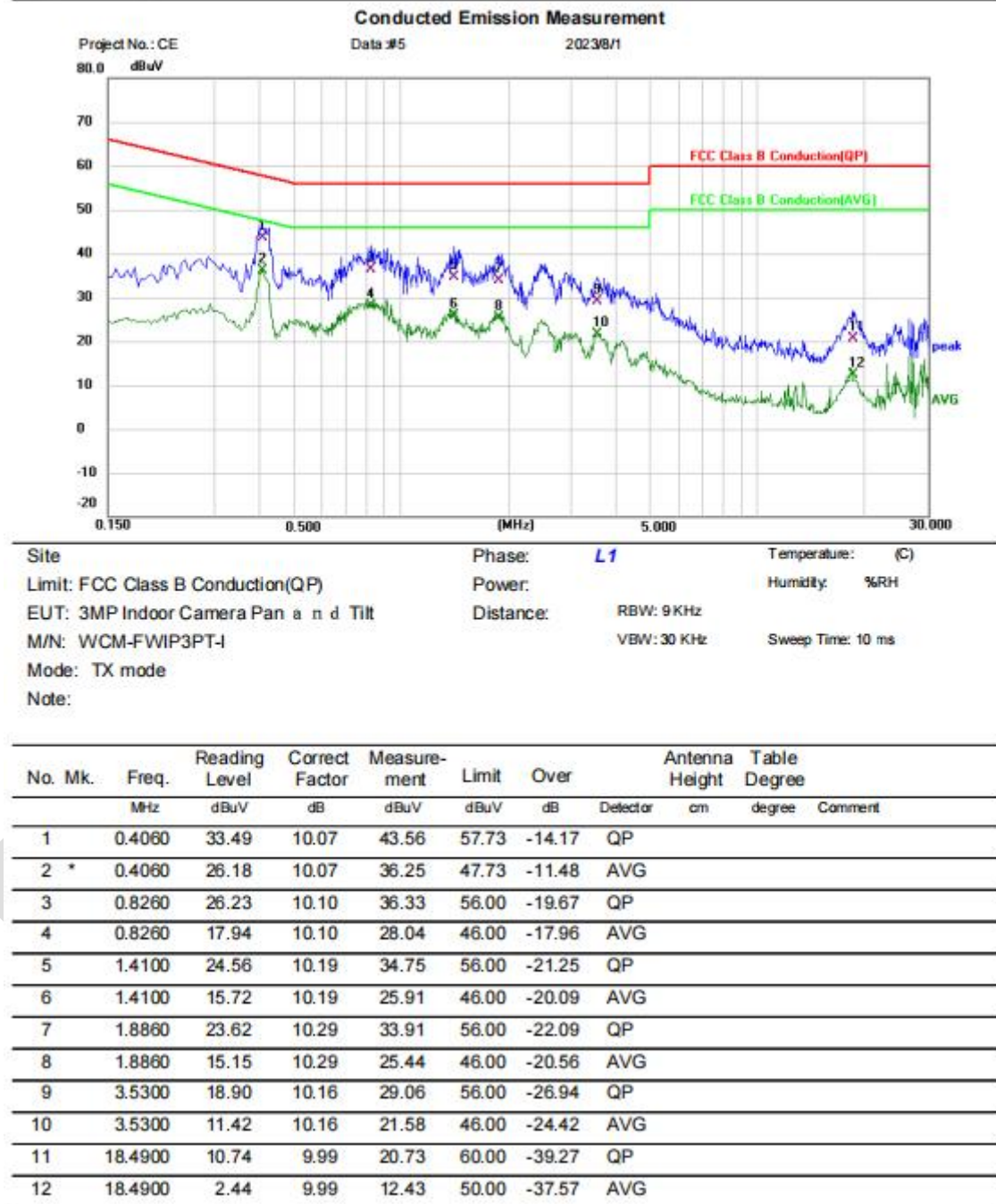
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to 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: $\text{LISN} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$

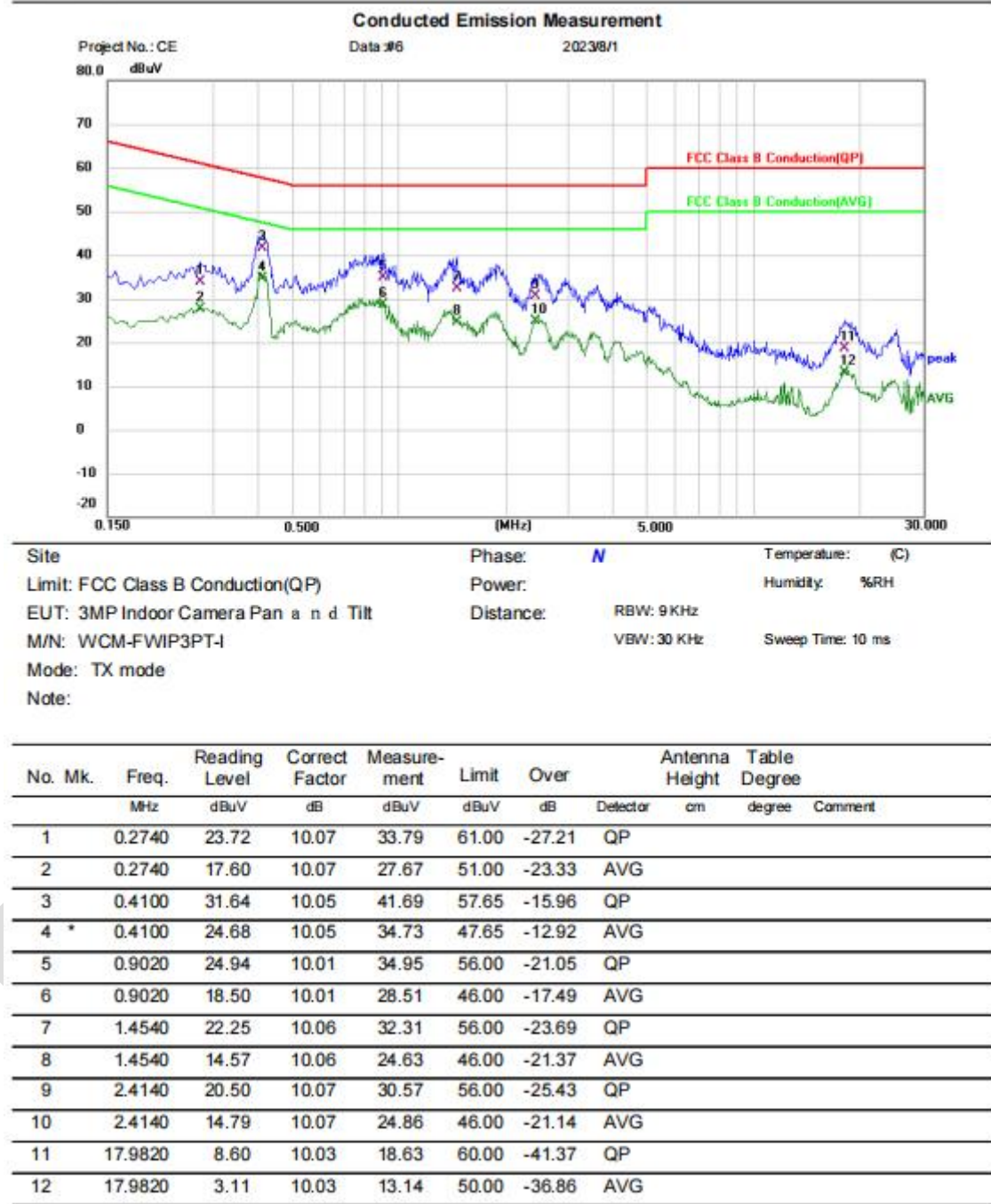
19.4 TEST DATA

[TestMode: TX]; [Line: Line]; [Power:AC120V/60Hz]



Test Result: Pass

[TestMode: TX]; [Line: Nutral] ;[Power:AC120V/60Hz]



Test Result: Pass

20 APPENDIX

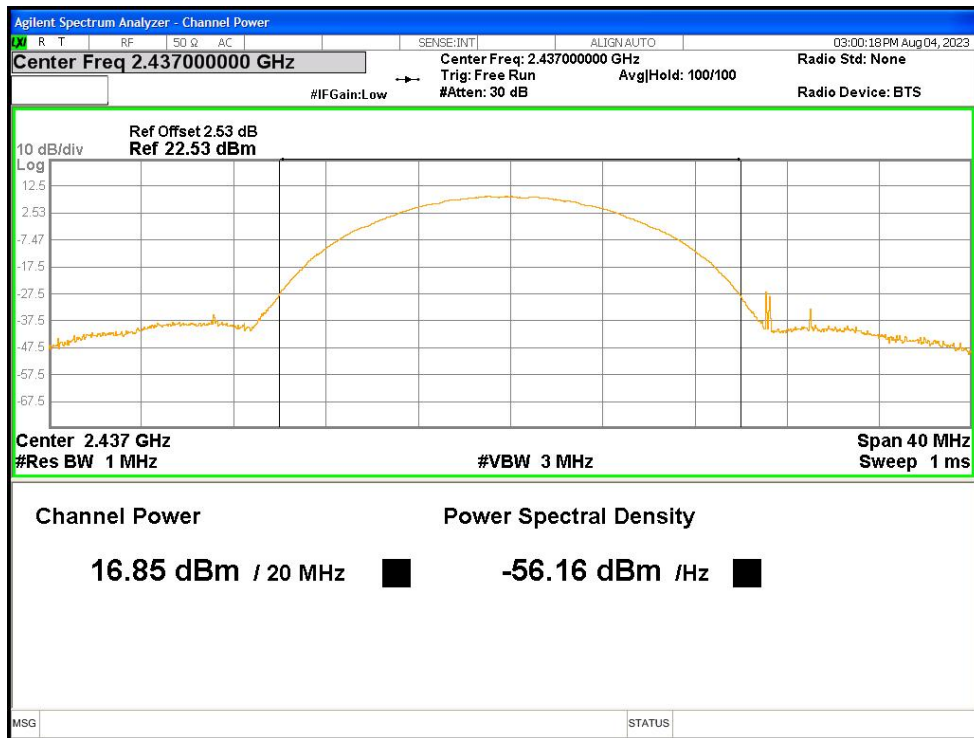
20.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.342	30	Pass
NVNT	b	2437	Ant1	16.846	30	Pass
NVNT	b	2462	Ant1	16.407	30	Pass
NVNT	g	2412	Ant1	18.675	30	Pass
NVNT	g	2437	Ant1	17.332	30	Pass
NVNT	g	2462	Ant1	17.358	30	Pass
NVNT	n20	2412	Ant1	17.857	30	Pass
NVNT	n20	2437	Ant1	16.454	30	Pass
NVNT	n20	2462	Ant1	16.453	30	Pass
NVNT	n40	2422	Ant1	17.15	30	Pass
NVNT	n40	2437	Ant1	16.684	30	Pass
NVNT	n40	2452	Ant1	17.114	30	Pass

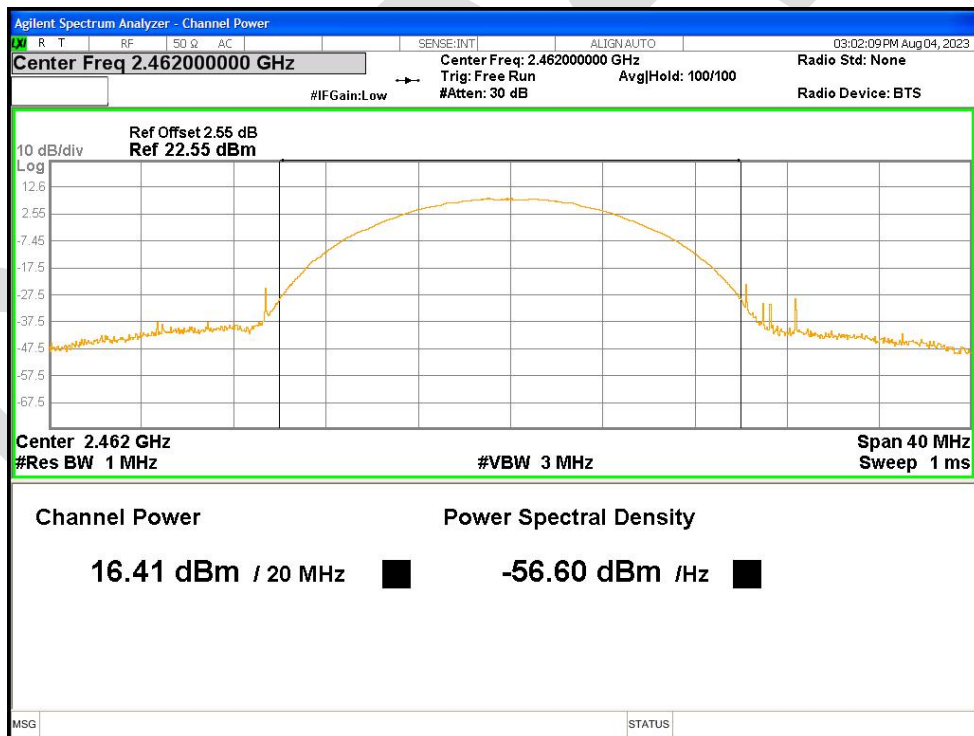
Power NVNT b 2412MHz Ant1



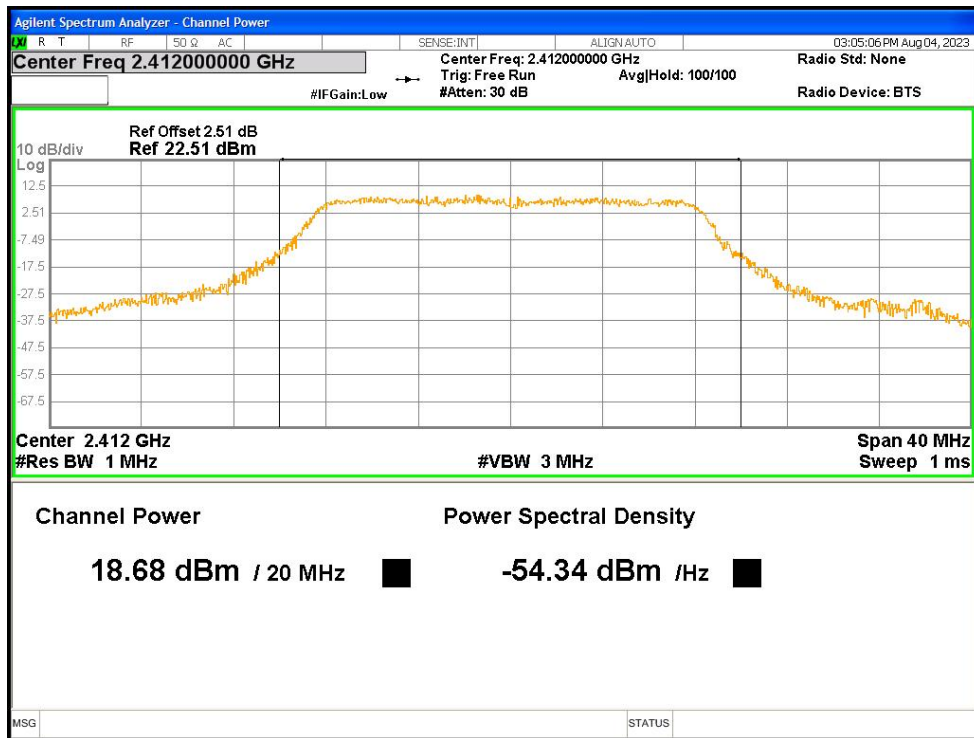
Power NVNT b 2437MHz Ant1



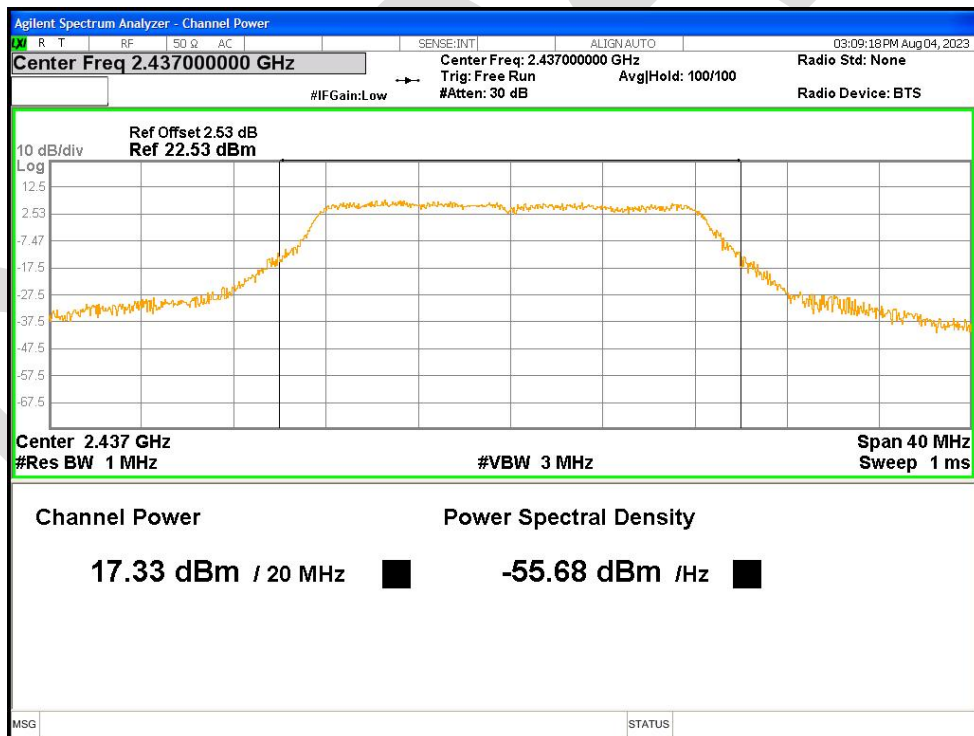
Power NVNT b 2462MHz Ant1



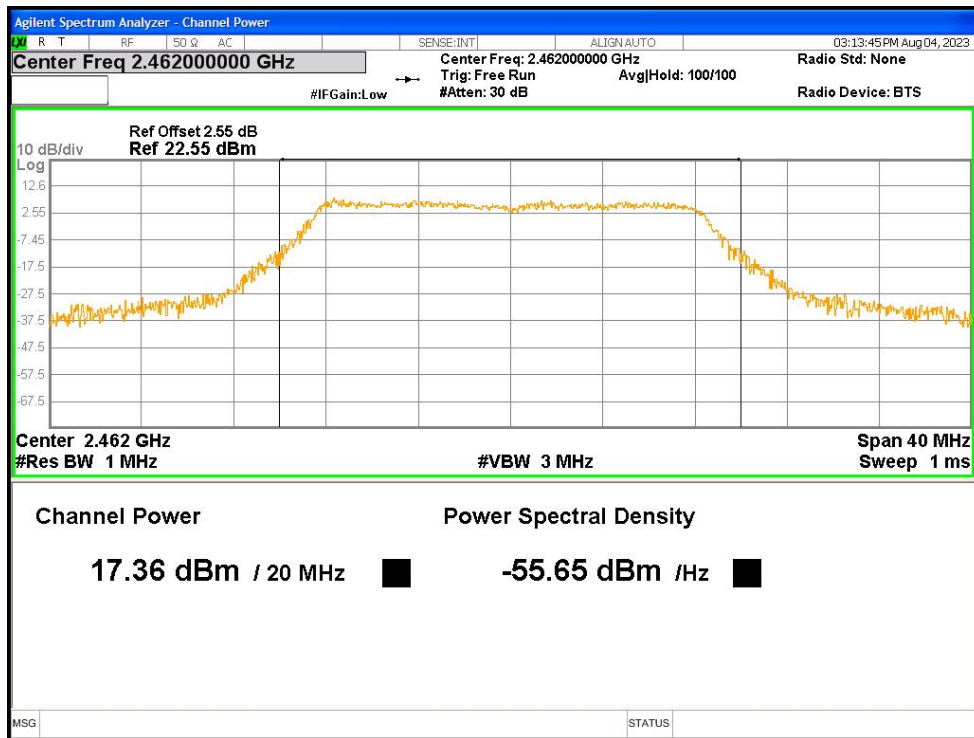
Power NVNT g 2412MHz Ant1



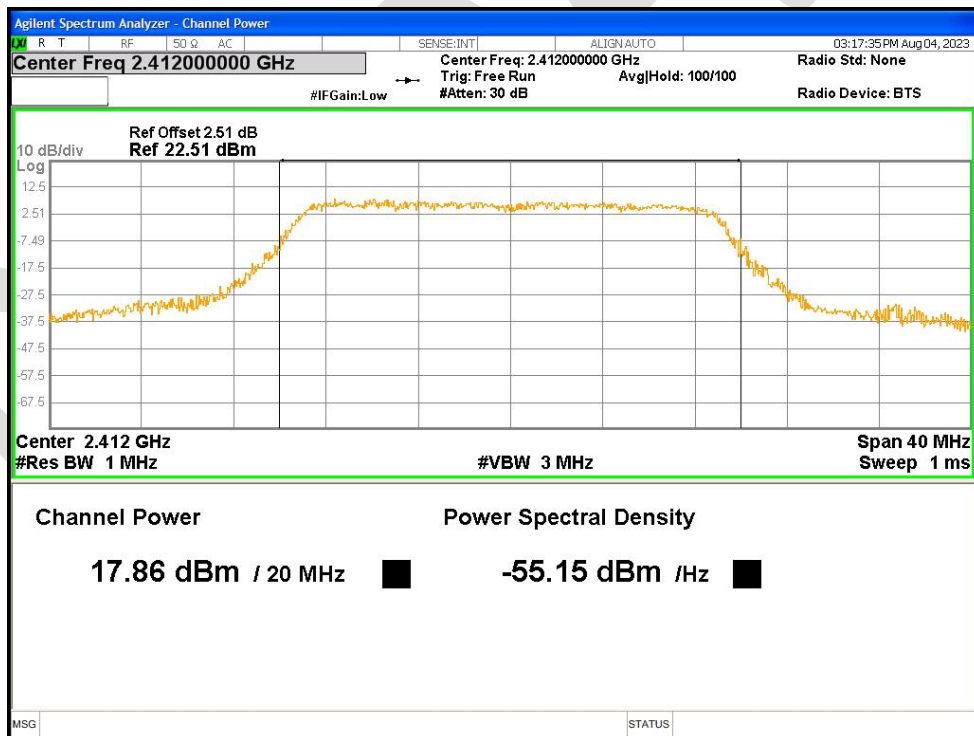
Power NVNT g 2437MHz Ant1



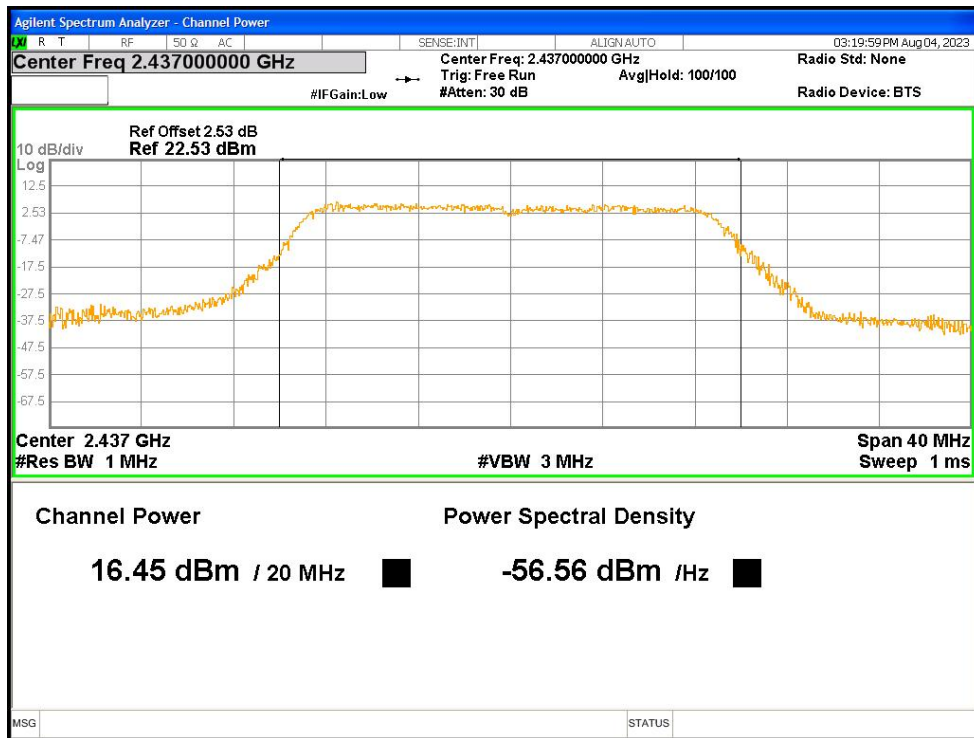
Power NVNT g 2462MHz Ant1



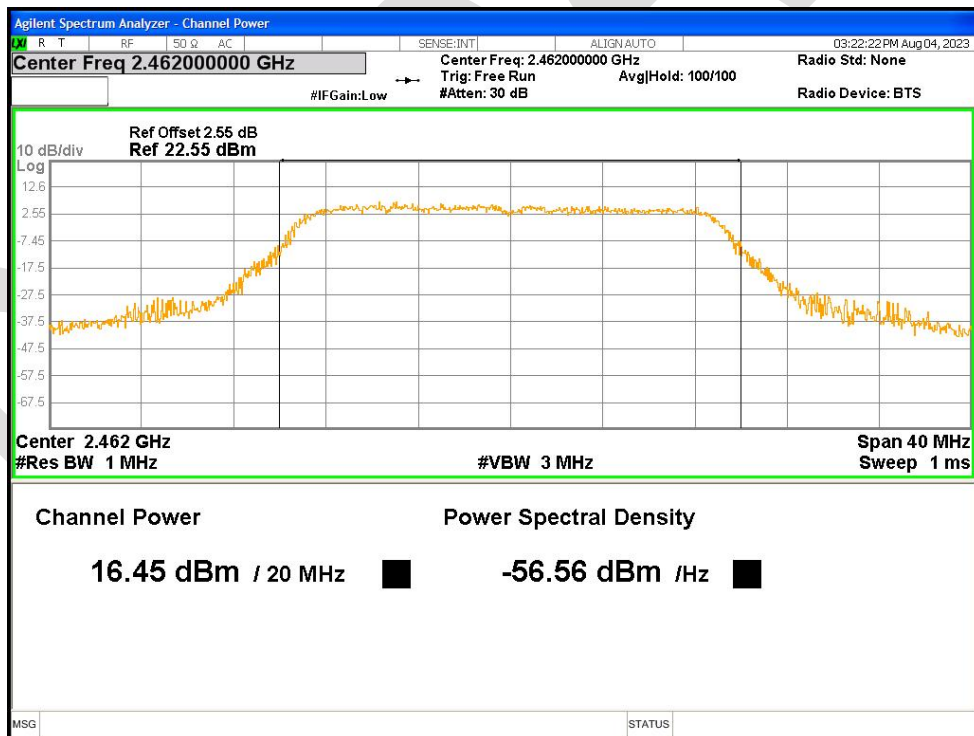
Power NVNT n20 2412MHz Ant1



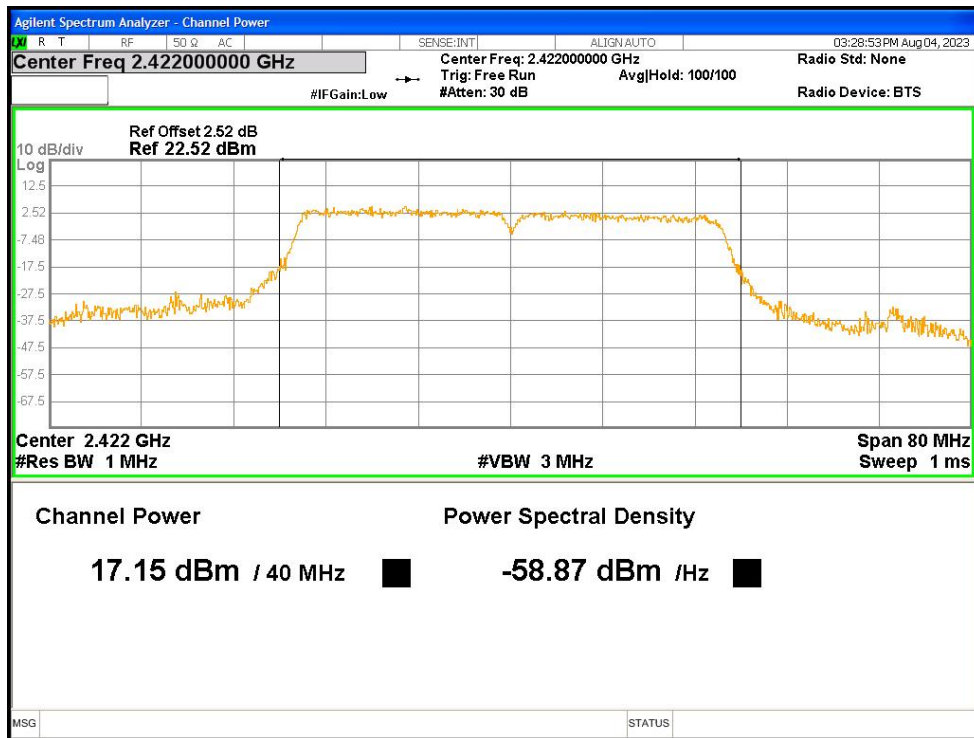
Power NVNT n20 2437MHz Ant1



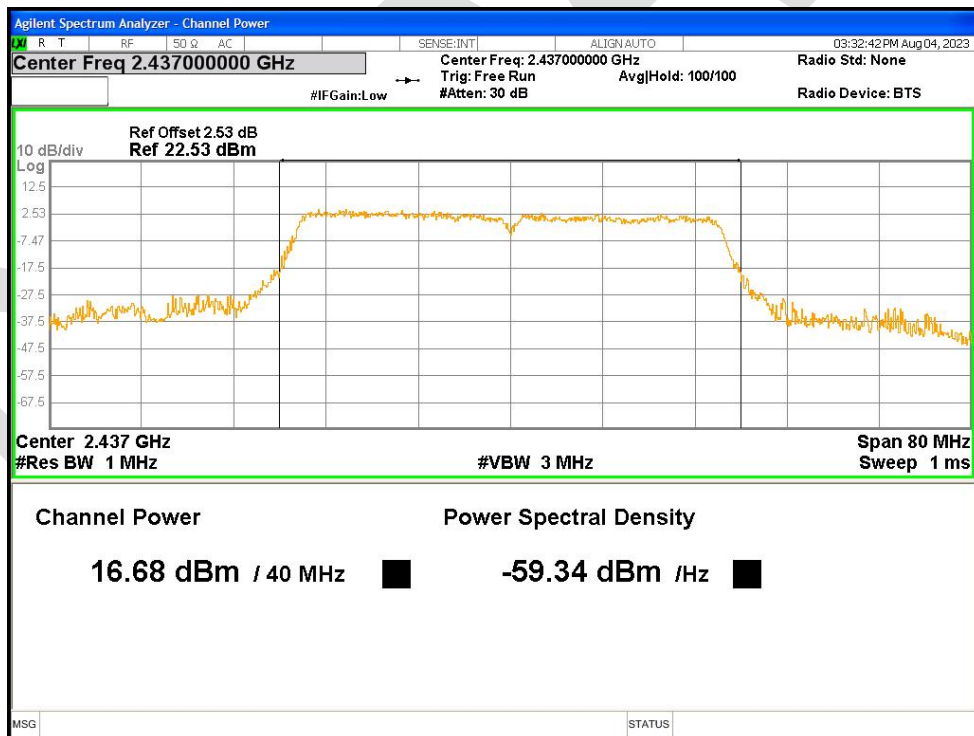
Power NVNT n20 2462MHz Ant1



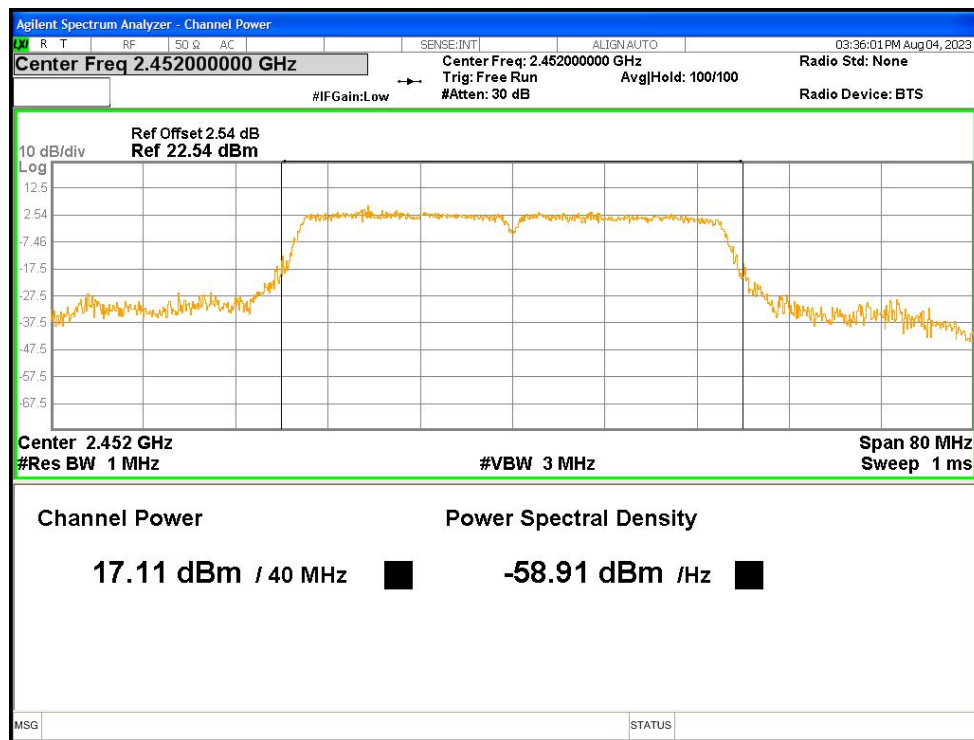
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



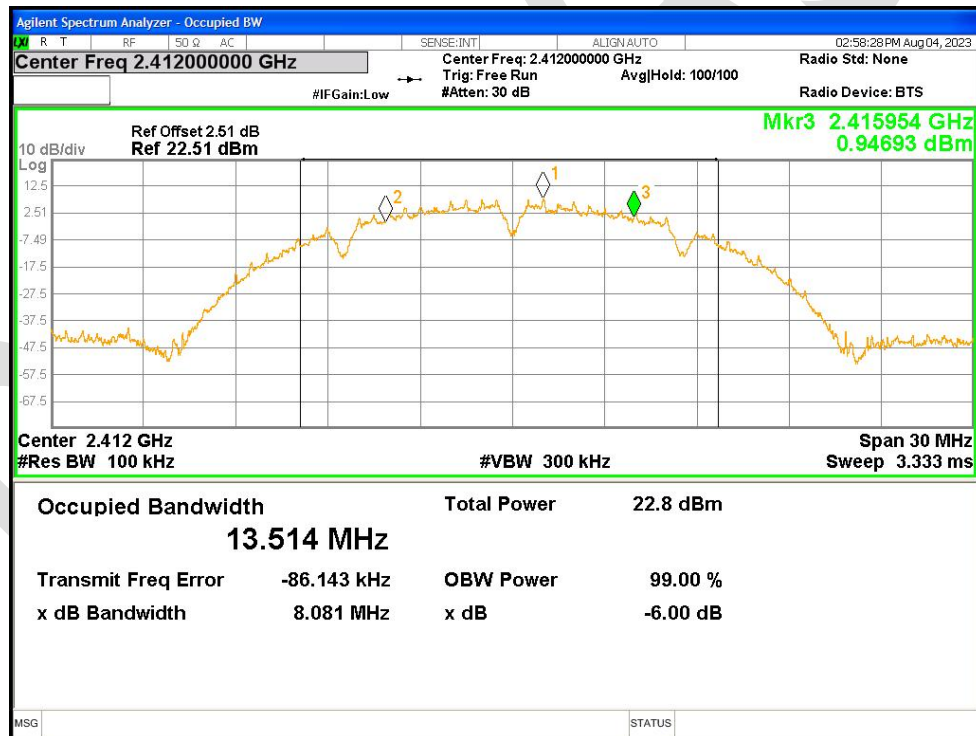
Power NVNT n40 2452MHz Ant1



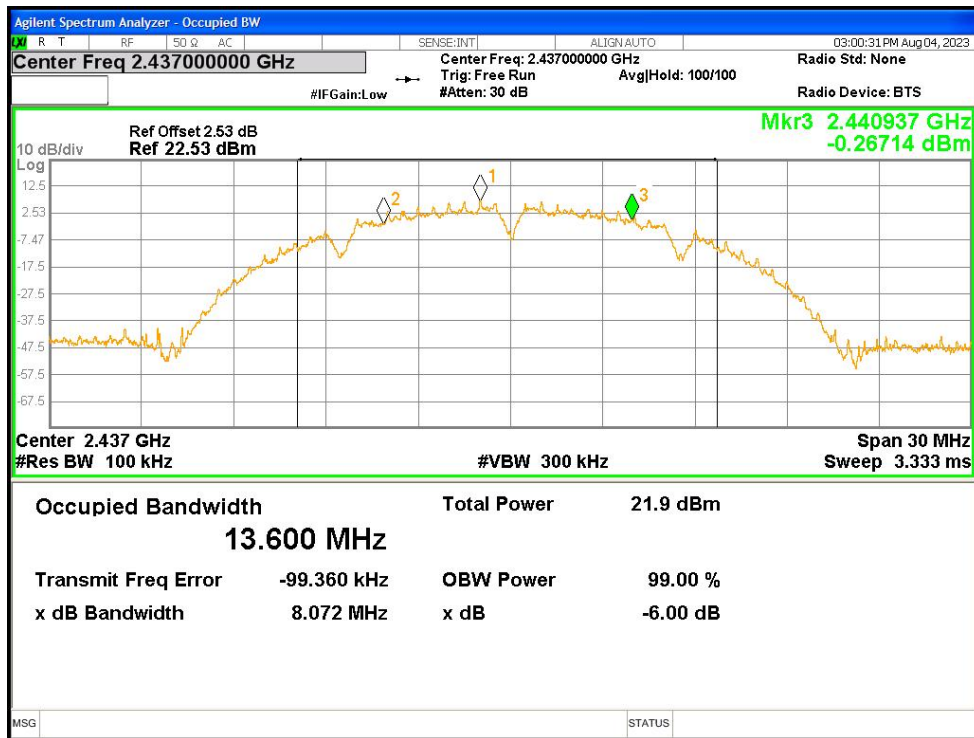
20.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.081	0.5	Pass
NVNT	b	2437	Ant1	8.072	0.5	Pass
NVNT	b	2462	Ant1	8.075	0.5	Pass
NVNT	g	2412	Ant1	16.129	0.5	Pass
NVNT	g	2437	Ant1	16.32	0.5	Pass
NVNT	g	2462	Ant1	16.383	0.5	Pass
NVNT	n20	2412	Ant1	17.084	0.5	Pass
NVNT	n20	2437	Ant1	17.526	0.5	Pass
NVNT	n20	2462	Ant1	17.664	0.5	Pass
NVNT	n40	2422	Ant1	35.631	0.5	Pass
NVNT	n40	2437	Ant1	35.505	0.5	Pass
NVNT	n40	2452	Ant1	35.735	0.5	Pass

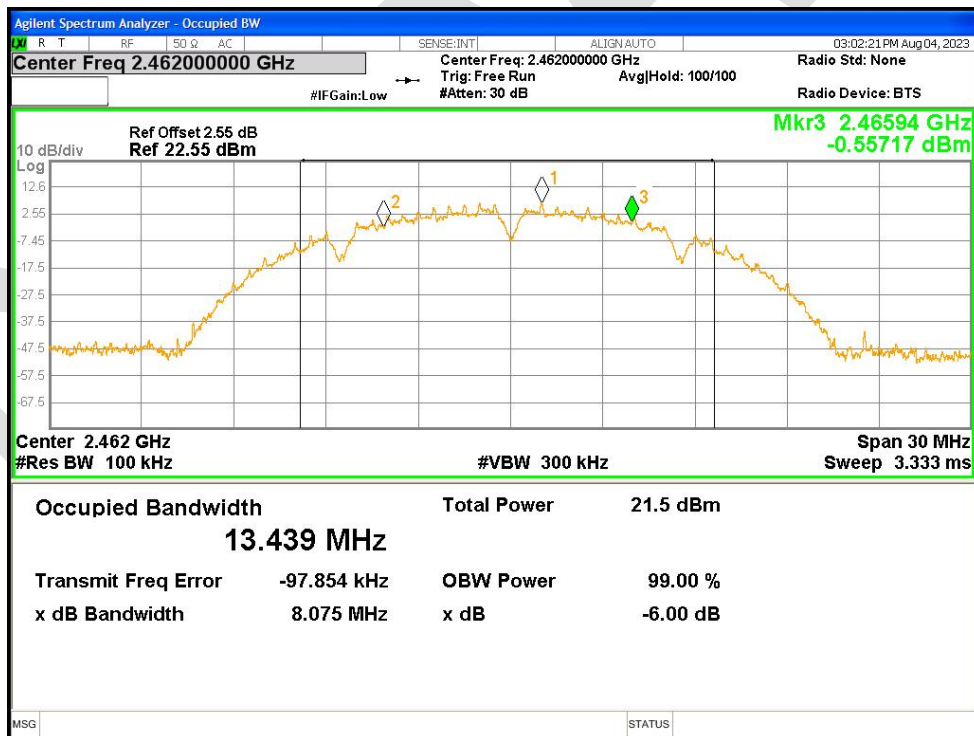
-6dB Bandwidth NVNT b 2412MHz Ant1



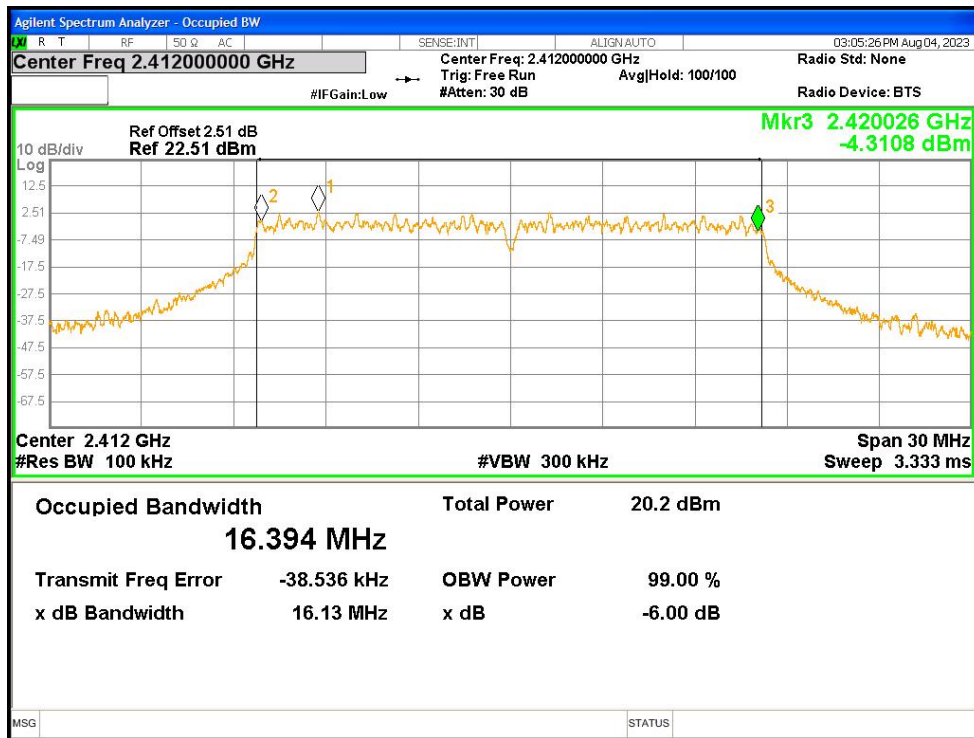
-6dB Bandwidth NVNT b 2437MHz Ant1



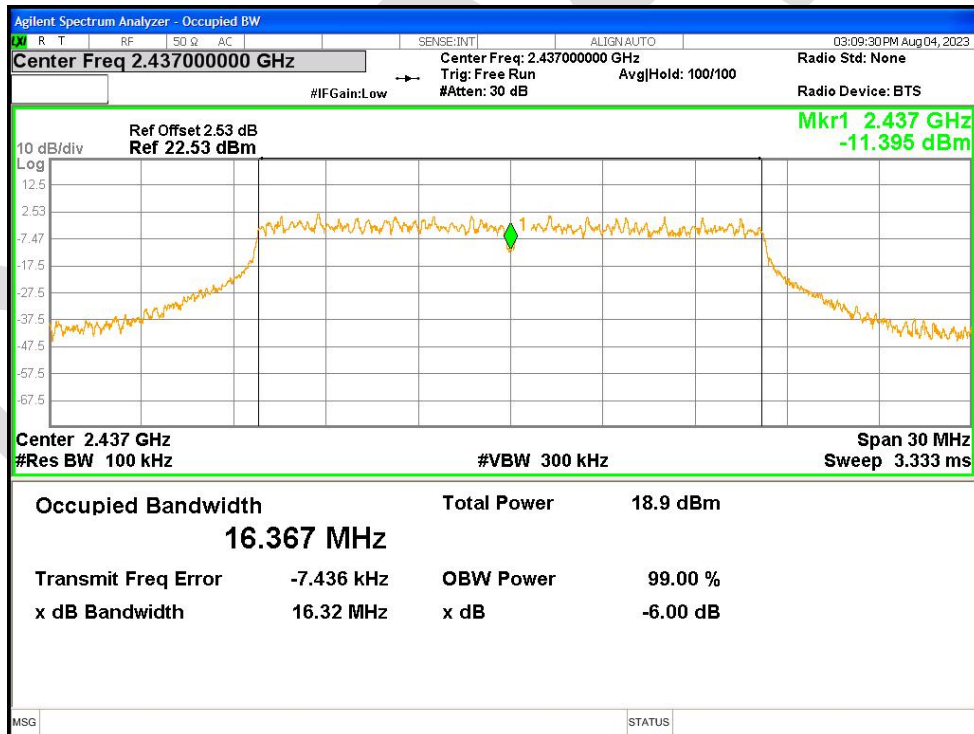
-6dB Bandwidth NVNT b 2462MHz Ant1



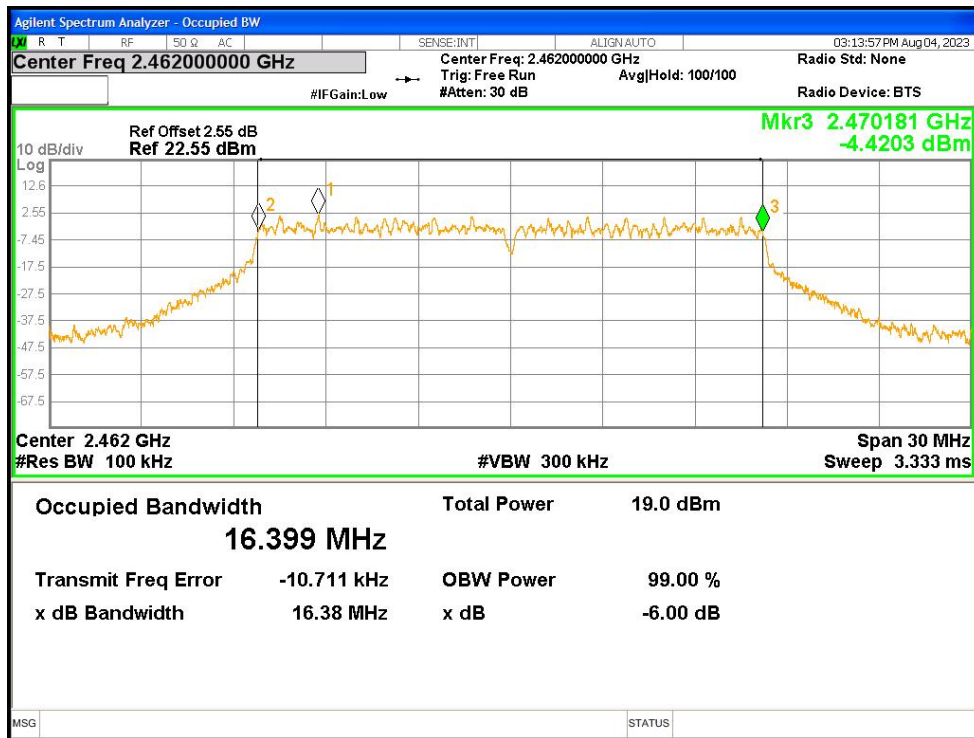
-6dB Bandwidth NVNT g 2412MHz Ant1



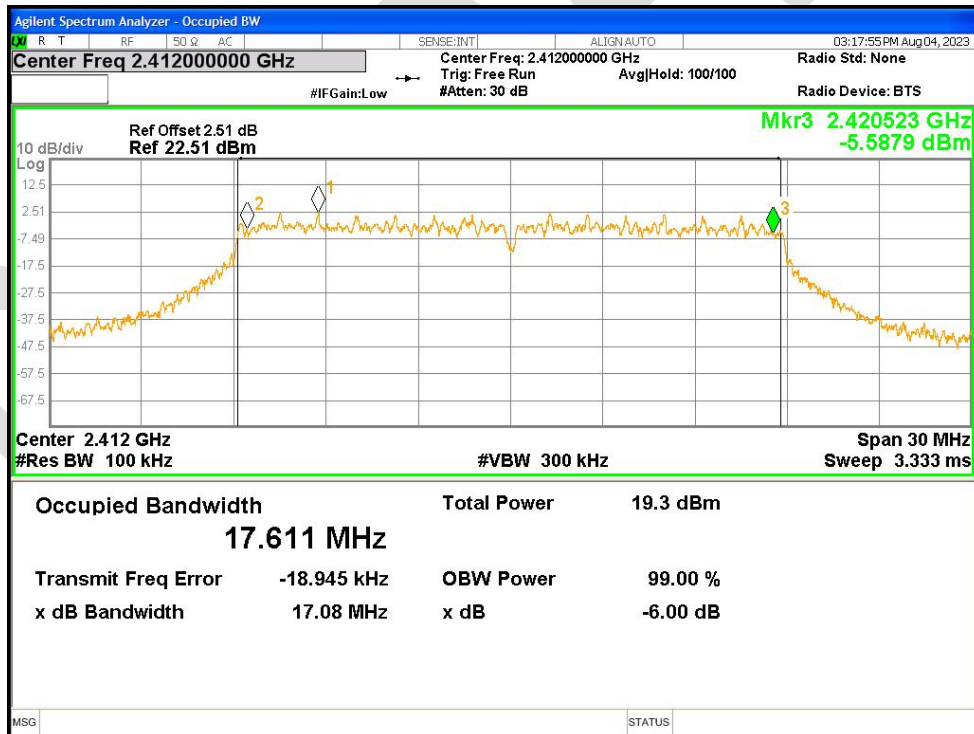
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1