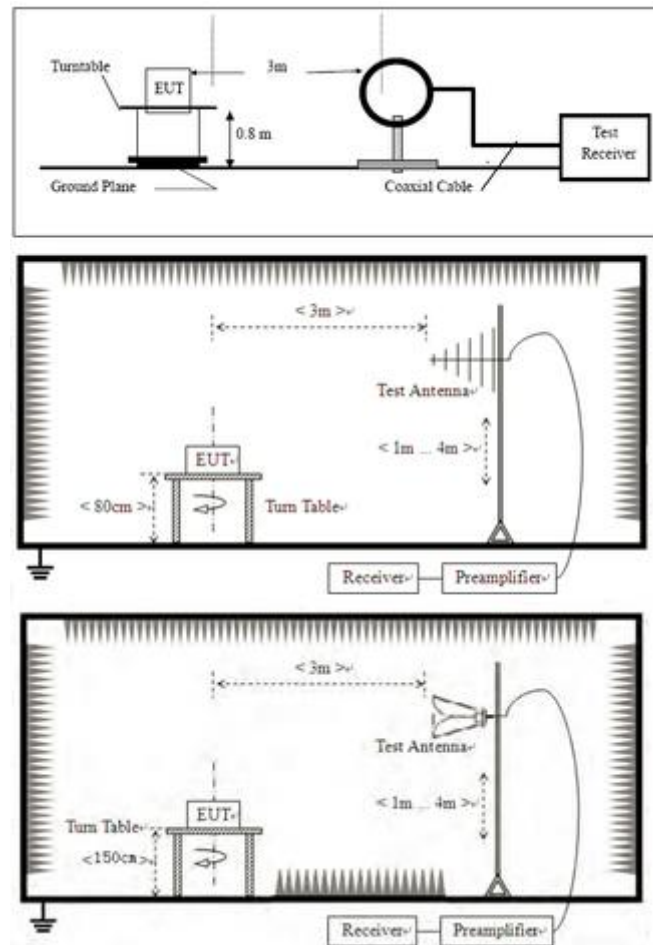


BLOCK DIAGRAM OF TEST SETUP



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: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

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.

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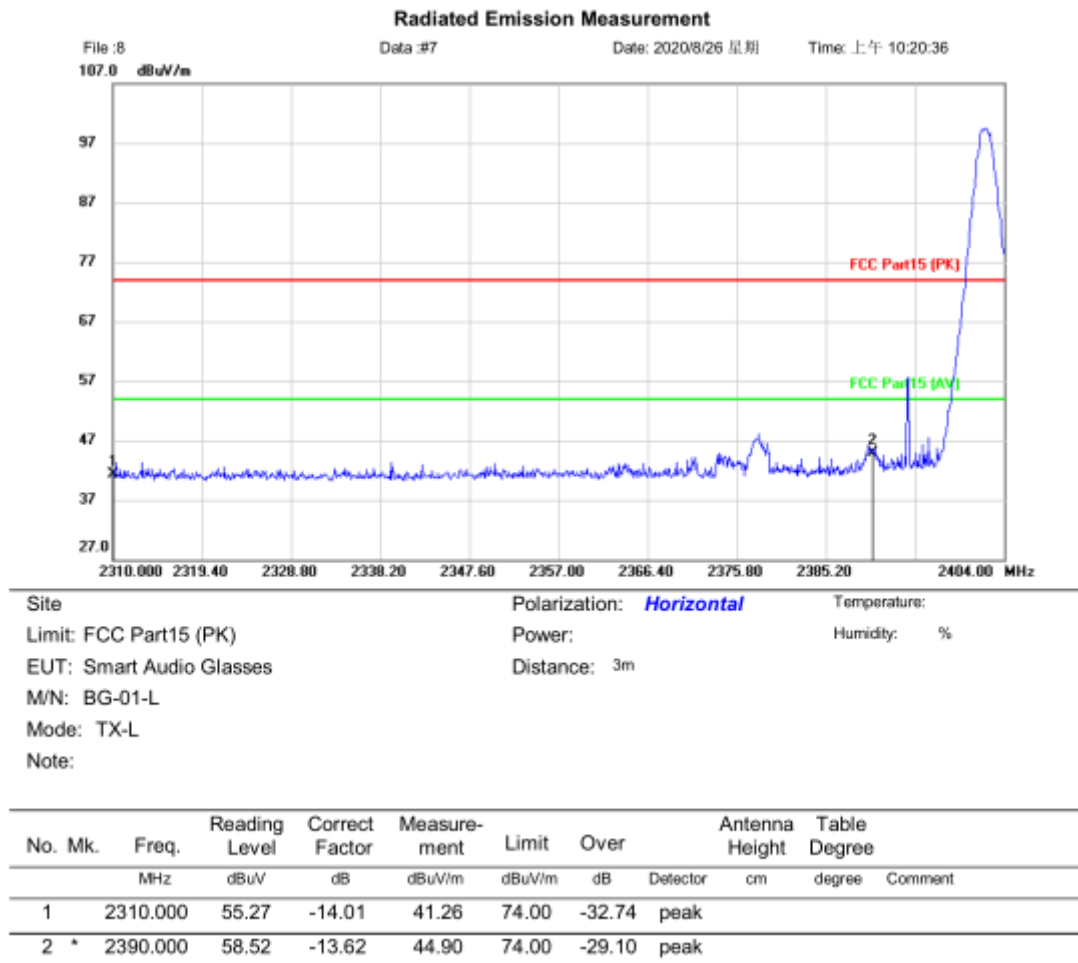
TEST DATA

Left electrically:

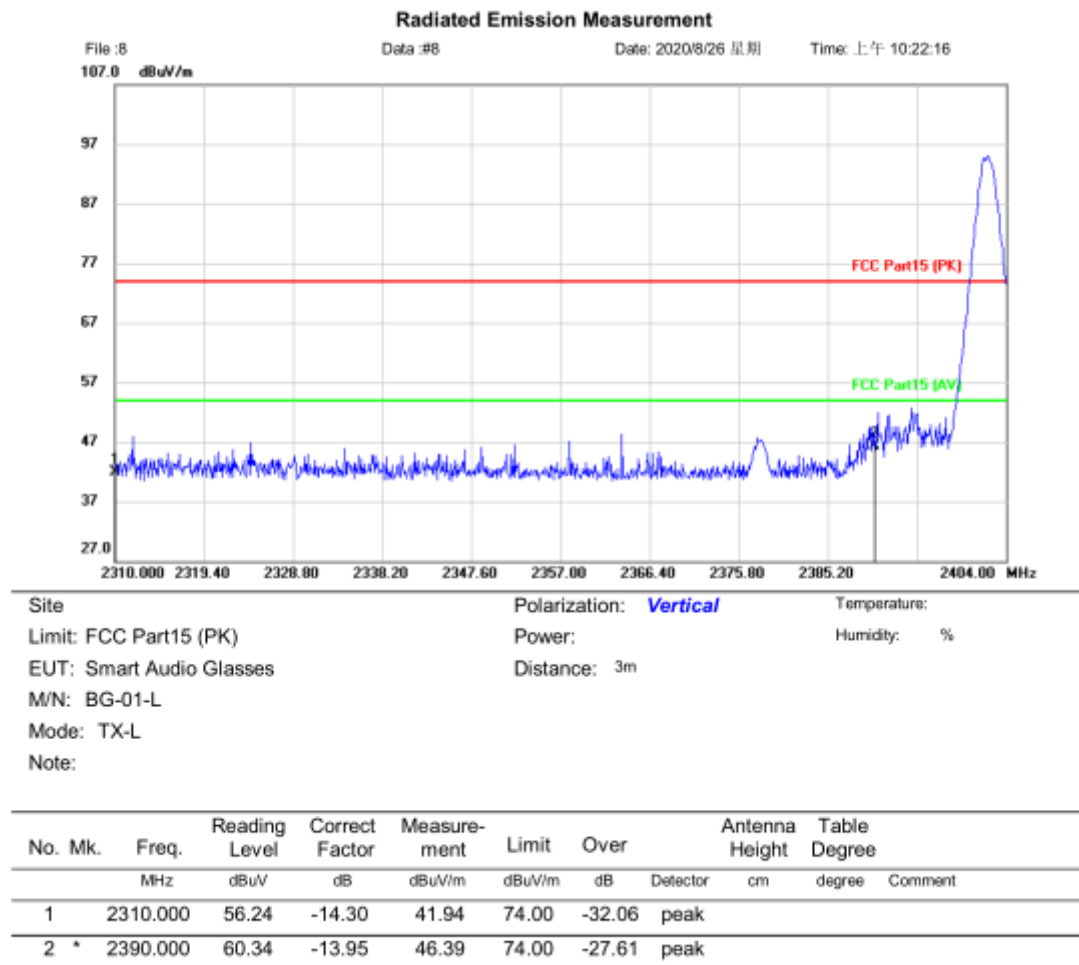
Remark: During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

Lowest channel

Horizontal -Peak level



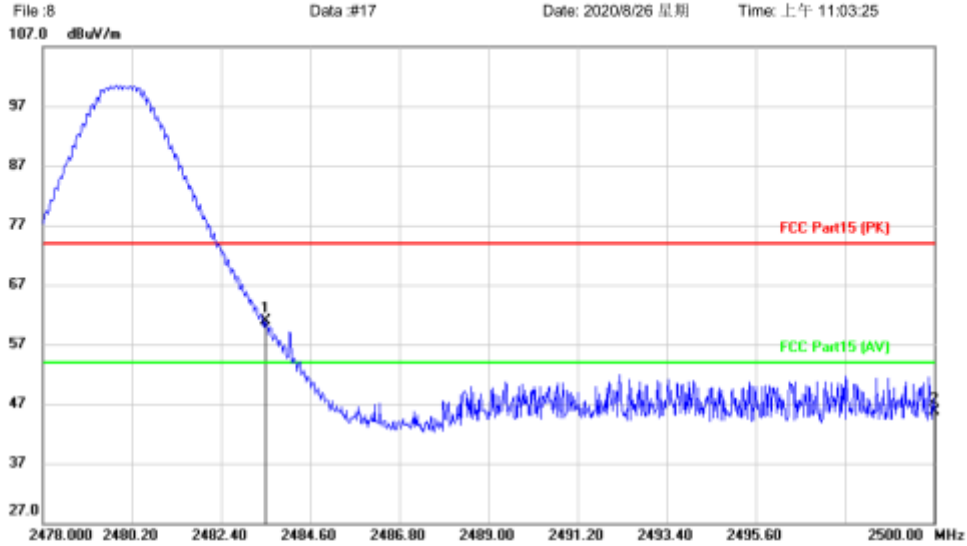
Vertical-Peak level



Highest channel

Horizontal -Peak level

Radiated Emission Measurement

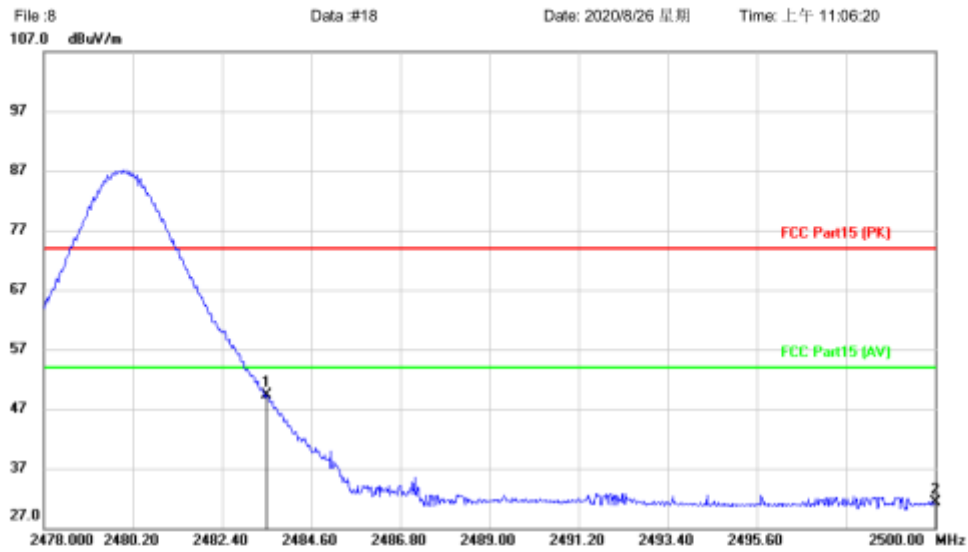


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Smart Audio Glasses	Distance: 3m	
M/N: BG-01-L		
Mode: TX-H		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2483.500	74.10	-13.11	60.99	74.00	-13.01	peak		
2		2500.000	58.68	-13.02	45.66	74.00	-28.34	peak		

Horizontal -AV level

Radiated Emission Measurement



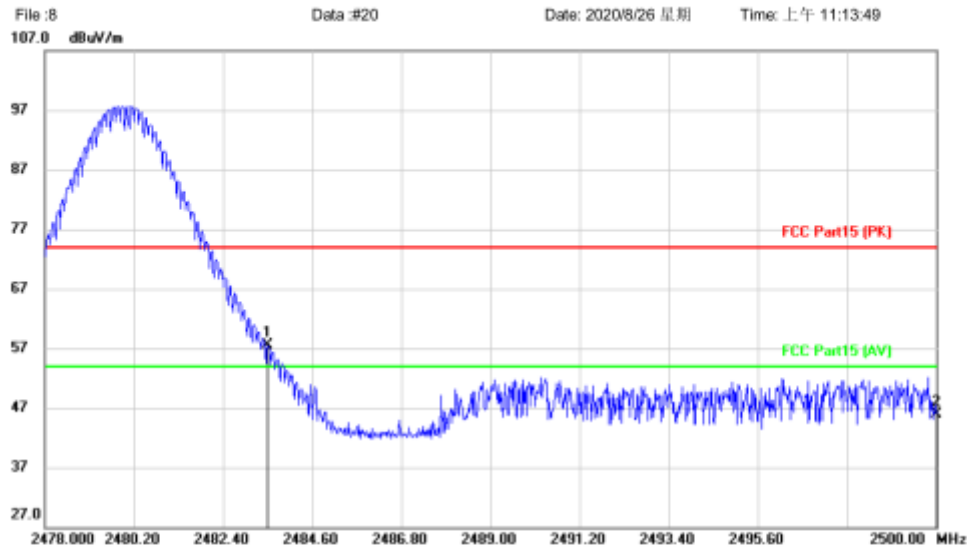
Site
Limit: FCC Part15 (PK)
EUT: Smart Audio Glasses
M/N: BG-01-L
Mode: TX-H
Note:

Polarization: **Horizontal**
Power:
Distance: 3m
Temperature:
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2483.500	62.33	-13.11	49.22	54.00	-4.78	AVG		
2		2500.000	44.39	-13.02	31.37	54.00	-22.63	AVG		

Vertical-Peak leve

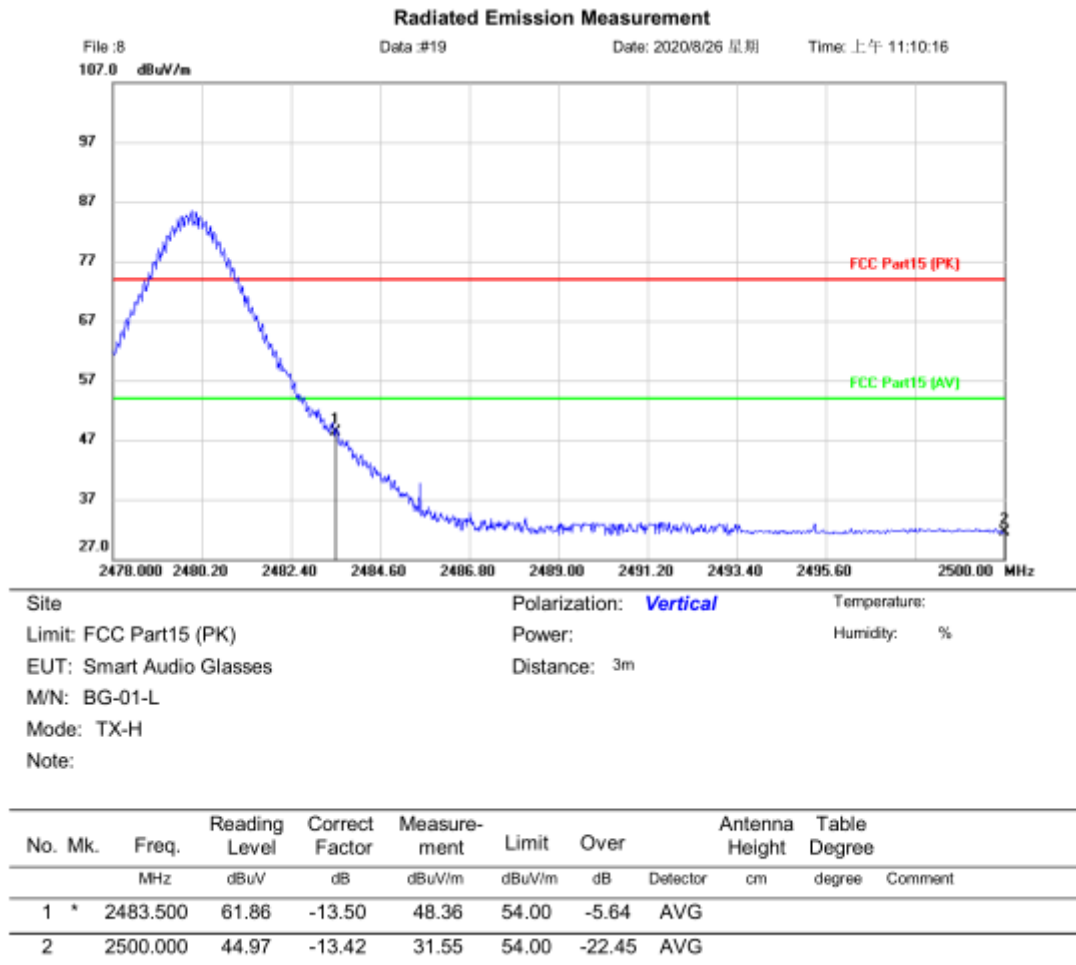
Radiated Emission Measurement



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Smart Audio Glasses	Distance: 3m	
M/N: BG-01-L		
Mode: TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2483.500	70.92	-13.50	57.42	74.00	-16.58	peak		
2		2500.000	59.26	-13.42	45.84	74.00	-28.16	peak		

Vertical-AV level



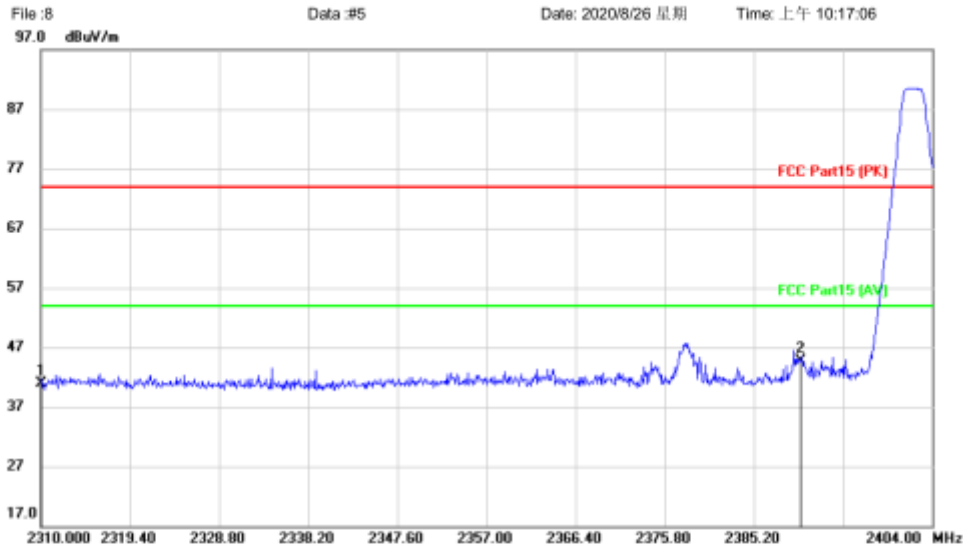
Right electrically:

Remark: During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

Lowest channel

Horizontal -Peak level

Radiated Emission Measurement

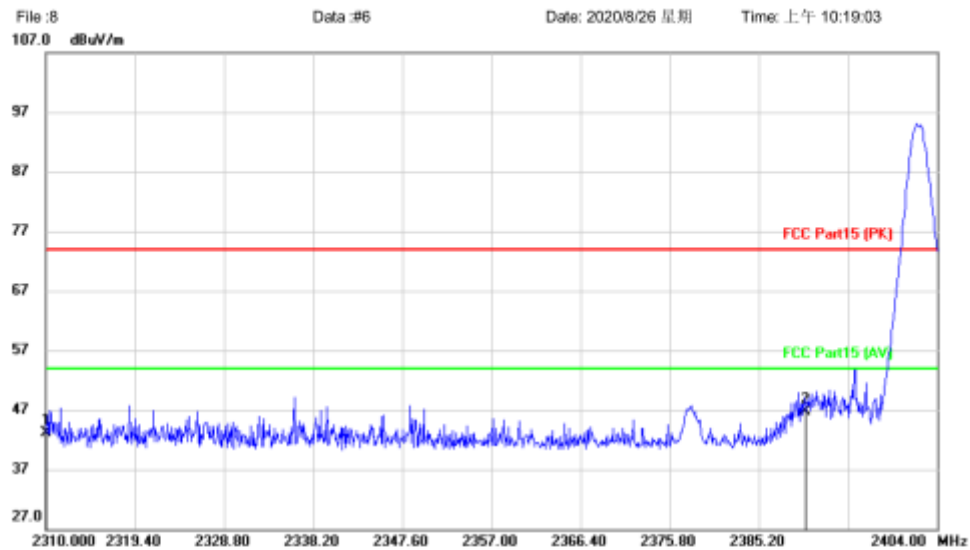


Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Smart Audio Glasses	Distance: 3m	
M/N: BG-01-R		
Mode: TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	54.99	-14.01	40.98	74.00	-33.02	peak		
2	*	2390.000	58.39	-13.62	44.77	74.00	-29.23	peak		

Vertical-Peak level

Radiated Emission Measurement



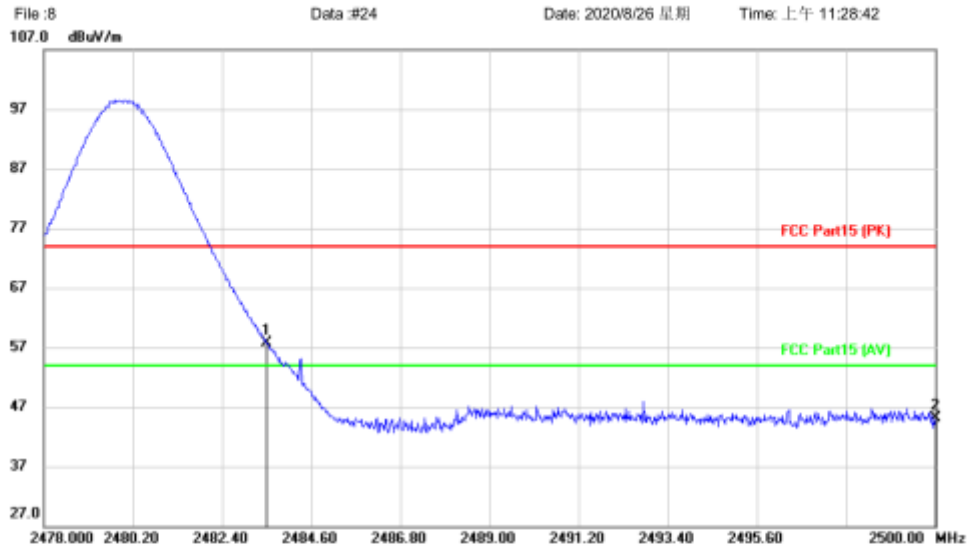
Site: Limit: FCC Part15 (PK) Polarization: **Vertical** Temperature:
EUT: Smart Audio Glasses Power: Humidity: %
M/N: BG-01-R Distance: 3m
Mode: TX-L
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2310.000	57.41	-14.30	43.11	74.00	-30.89	peak		
2	*	2390.000	60.75	-13.95	46.80	74.00	-27.20	peak		

Highest channel

Horizontal -Peak level

Radiated Emission Measurement



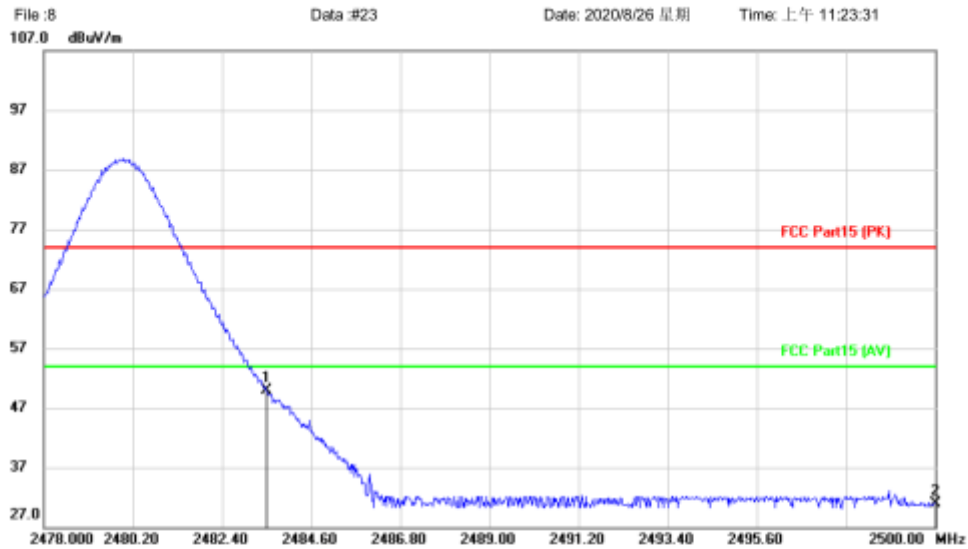
Site
Limit: FCC Part15 (PK)
EUT: Smart Audio Glasses
M/N: BG-01-R
Mode: TX-H
Note:

Polarization: **Horizontal**
Power:
Distance: 3m
Temperature:
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	2483.500	70.83	-13.11	57.72	74.00	-16.28	peak		
2		2500.000	58.12	-13.02	45.10	74.00	-28.90	peak		

Horizontal -AV level

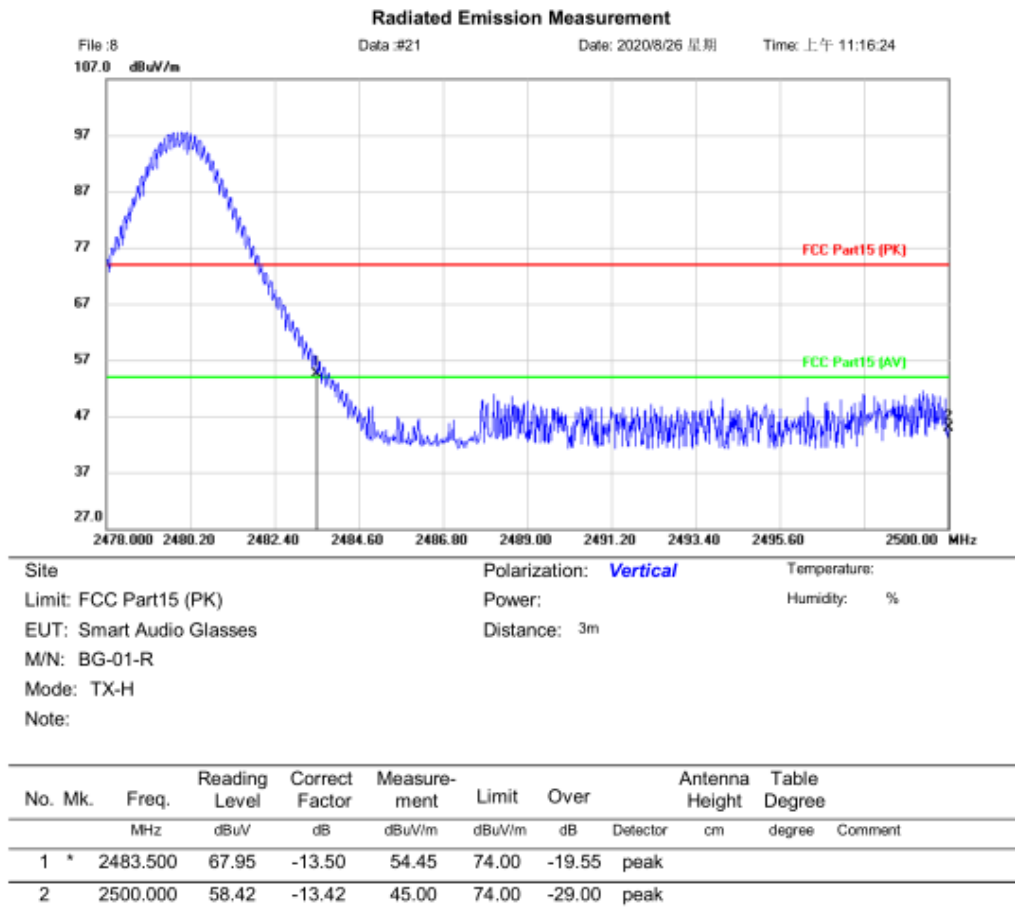
Radiated Emission Measurement



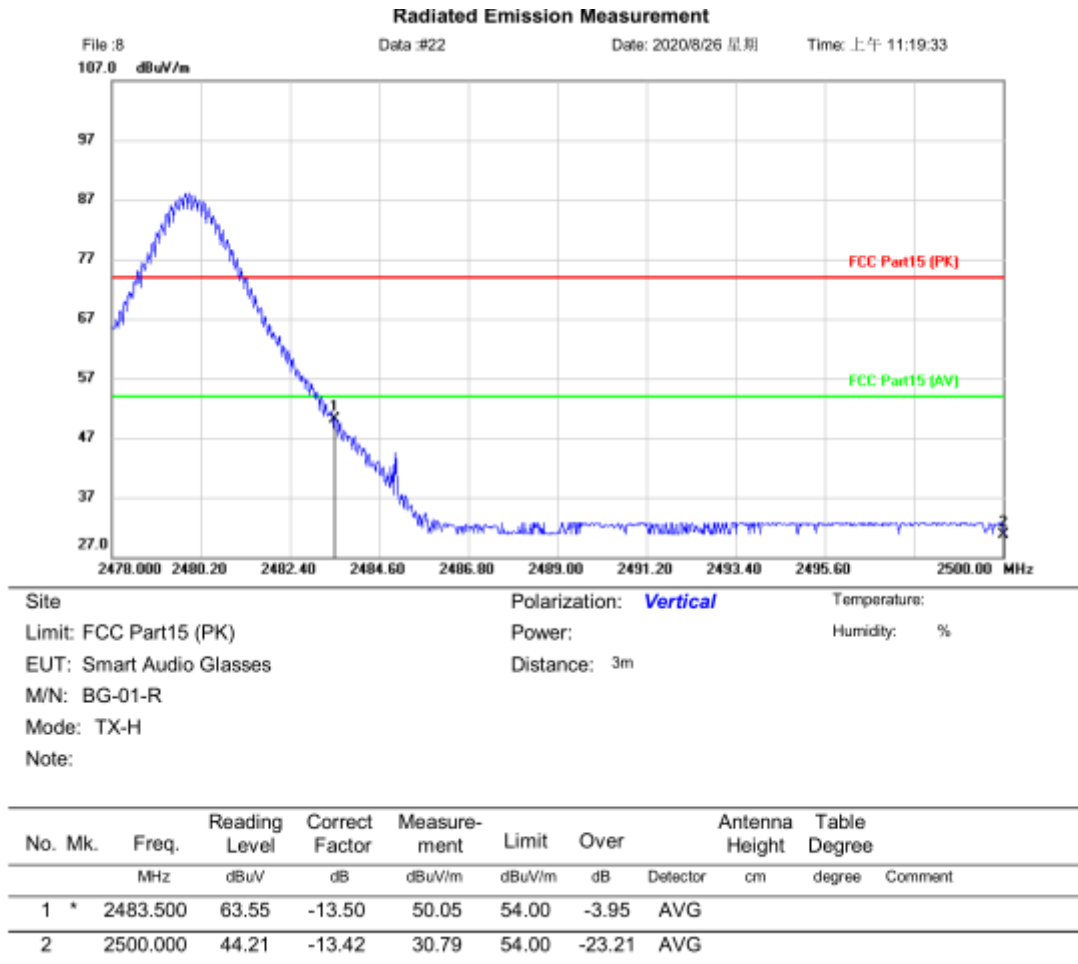
Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Smart Audio Glasses	Distance: 3m	
M/N: BG-01-R		
Mode: TX-H		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Detector	Comment
1	*	2483.500	63.01	-13.11	49.90	54.00	-4.10			AVG	
2		2500.000	43.96	-13.02	30.94	54.00	-23.06			AVG	

Vertical-Peak level



Vertical-AV level



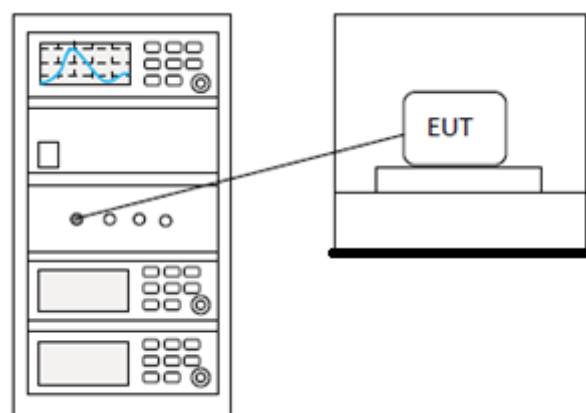
CONDUCTED BAND EDGES MEASUREMENT

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	Jozu
Temperature	25°C
Humidity	60%

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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BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

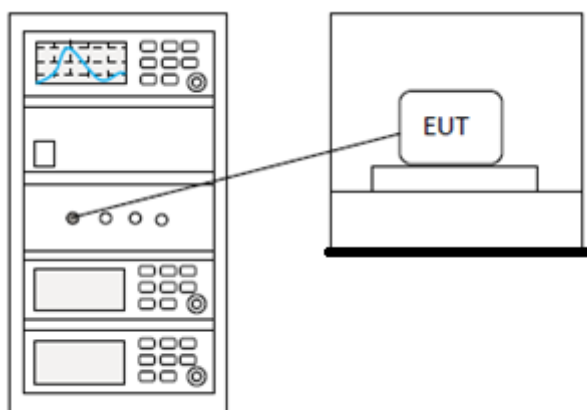
DWELL TIME

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.4
Test Mode (Pre-Scan)	TX_non-Hop mode
Test Mode (Final Test)	TX_non-Hop mode
Tester	Jozu
Temperature	25℃
Humidity	60%

LIMITS

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

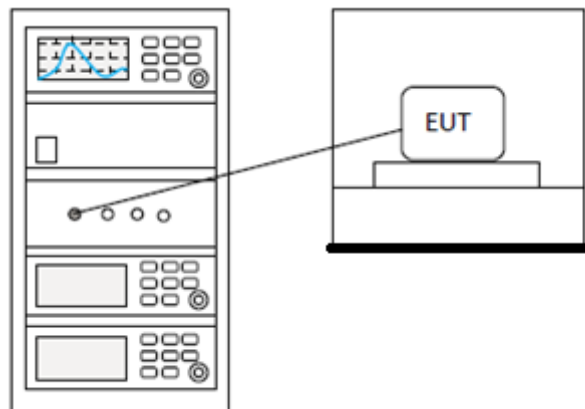
HOPPING CHANNEL NUMBER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	TX_non-Hop mode
Test Mode (Final Test)	TX_non-Hop mode
Tester	Jozu
Temperature	25℃
Humidity	60%

LIMITS

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

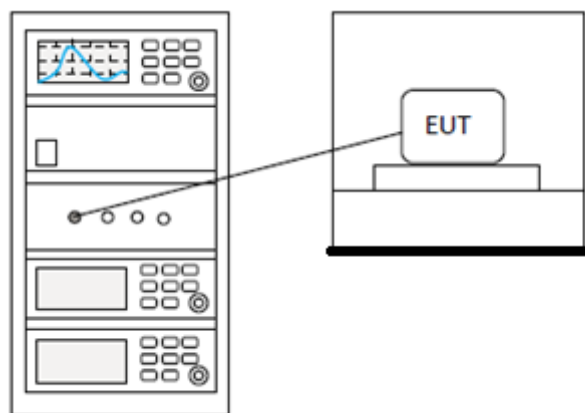
CARRIER FREQUENCIES SEPARATION

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.2
Test Mode (Pre-Scan)	TX_non-Hop mode
Test Mode (Final Test)	TX_non-Hop mode
Tester	Jozu
Temperature	25°C
Humidity	60%

LIMITS

Limit:	2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W
---------------	--

BLOCK DIAGRAM OF TEST SETUP



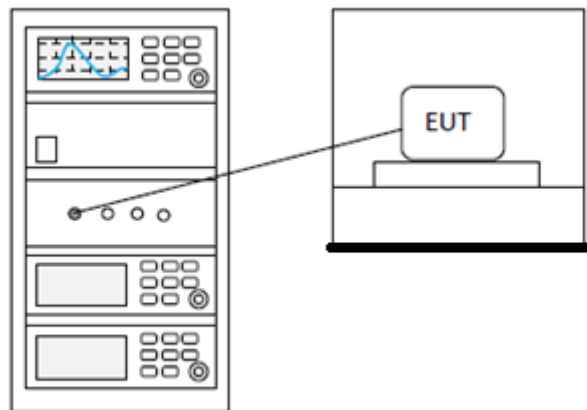
TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

20DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.7
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

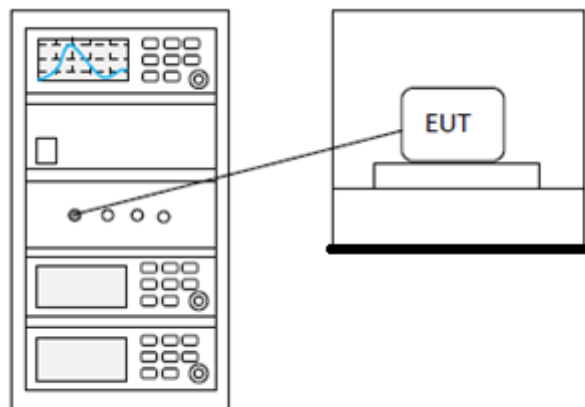
CONDUCTED PEAK OUTPUT POWER

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

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

BLOCK DIAGRAM OF TEST SETUP



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

BlueAsia

10 APPENDIX

Appendix1

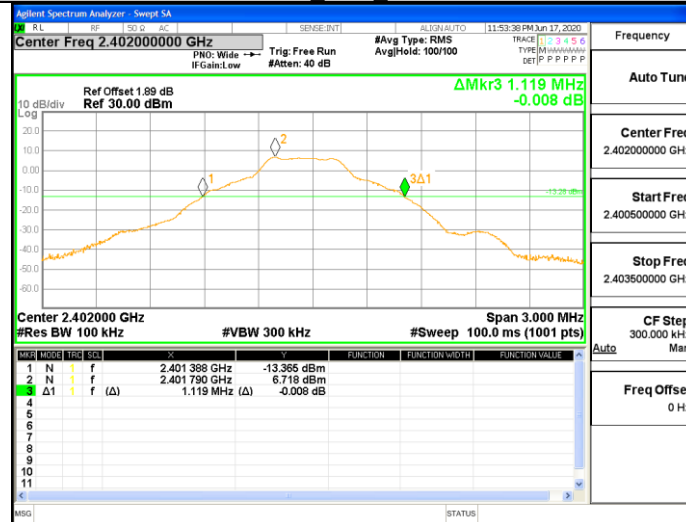
10.1 APPENDIX: 20DBEMISSION BANDWIDTH

Test Result

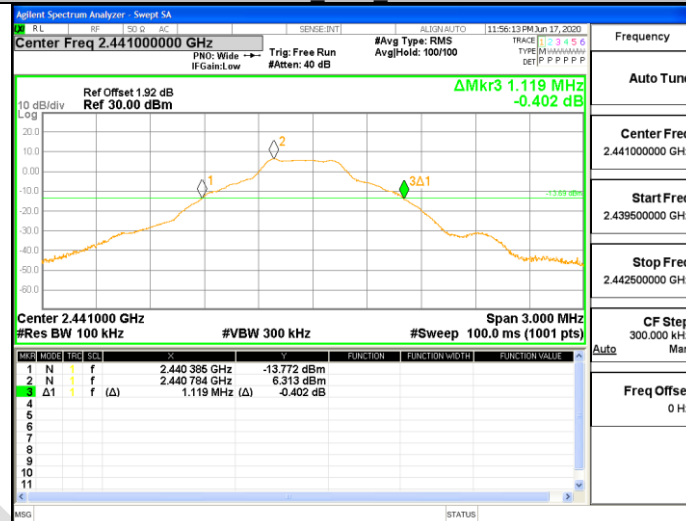
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.119	2401.388	2402.507	---	PASS
		2441	1.119	2440.385	2441.504	---	PASS
		2480	1.119	2479.382	2480.501	---	PASS
2DH1	Ant1	2402	1.377	2401.253	2402.630	---	PASS
		2441	1.377	2440.253	2441.630	---	PASS
		2480	1.380	2479.250	2480.630	---	PASS
3DH1	Ant1	2402	1.383	2401.253	2402.636	---	PASS
		2441	1.389	2440.247	2441.636	---	PASS
		2480	1.386	2479.250	2480.636	---	PASS

Test Graphs

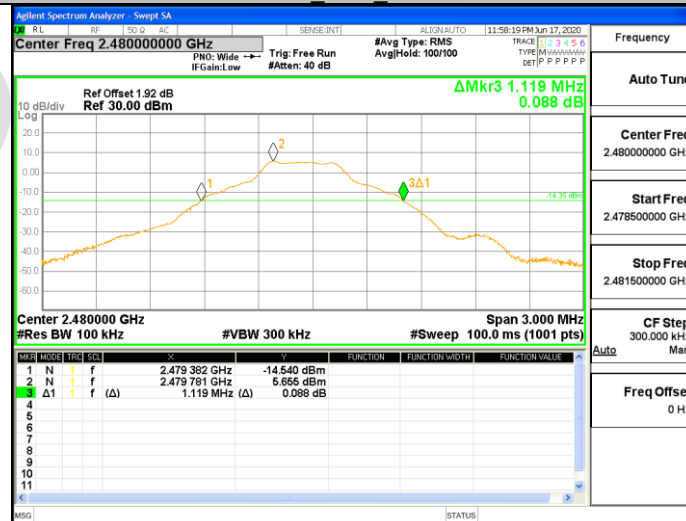
DH1 Ant1 2402



DH1 Ant1 2441



DH1 Ant1 2480



2DH1 Ant1 2402





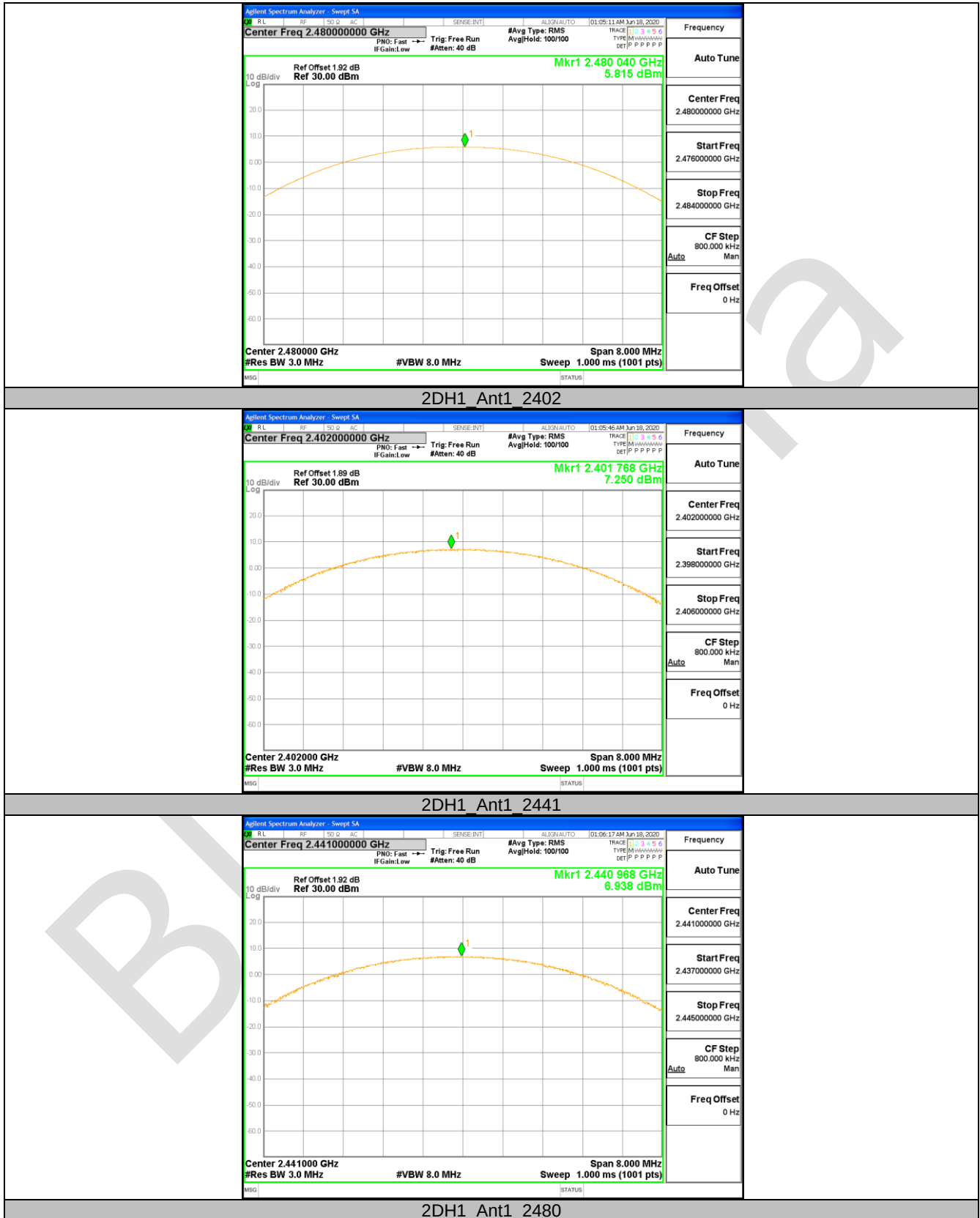
10.2 APPENDIX: MAXIMUM CONDUCTED OUTPUT POWER

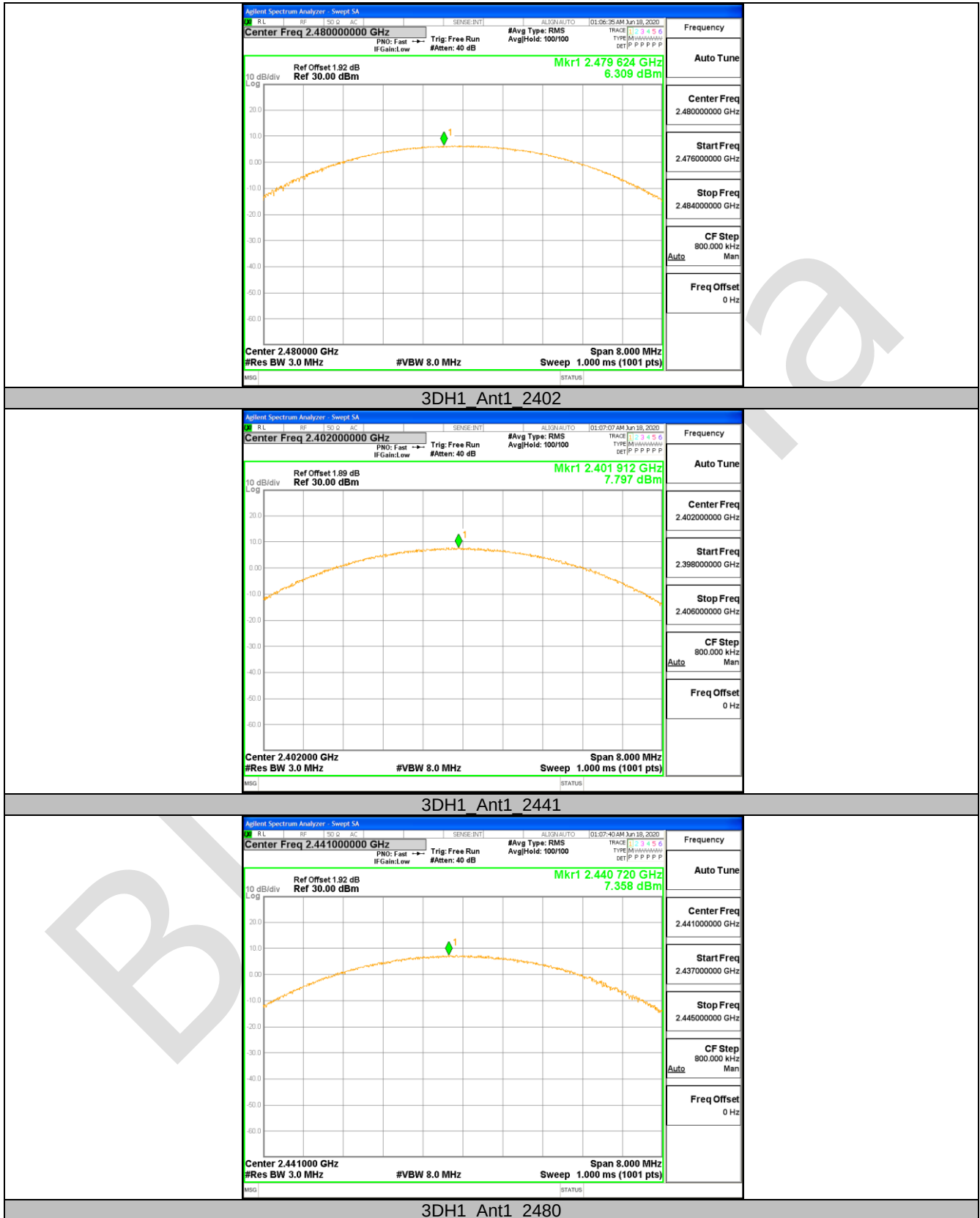
Test Result

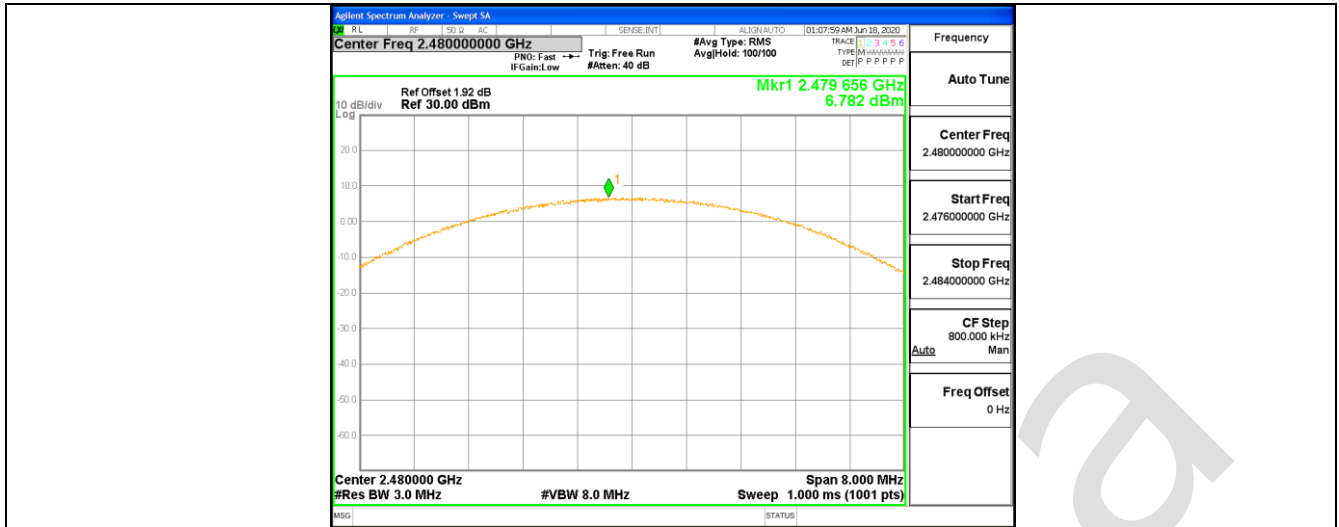
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	6.76	<=20.97	PASS
		2441	6.46	<=20.97	PASS
		2480	5.82	<=20.97	PASS
2DH1	Ant1	2402	7.25	<=20.97	PASS
		2441	6.94	<=20.97	PASS
		2480	6.31	<=20.97	PASS
3DH1	Ant1	2402	7.8	<=20.97	PASS
		2441	7.36	<=20.97	PASS
		2480	6.78	<=20.97	PASS

Test Graphs







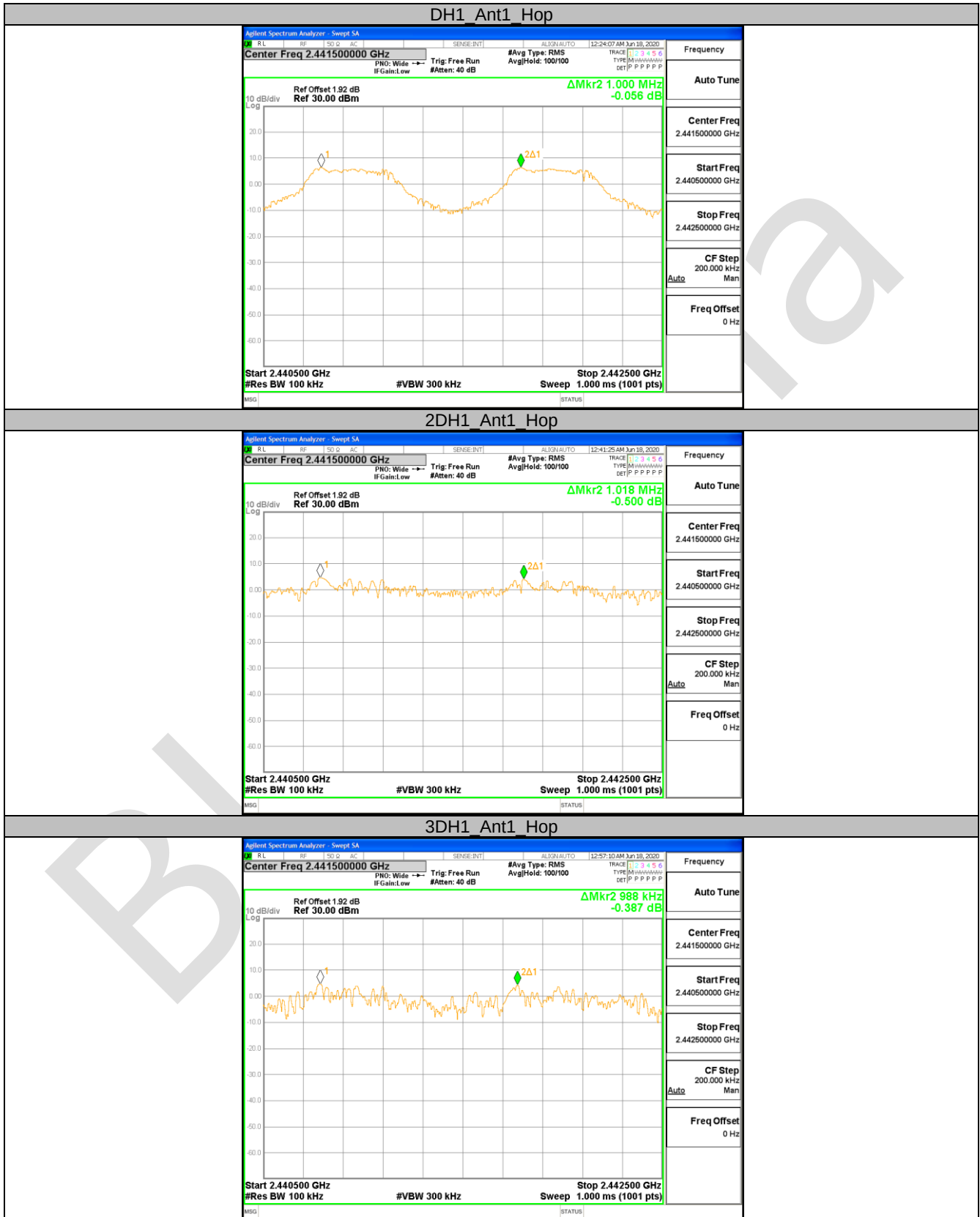


10.3 APPENDIX: CARRIER FREQUENCY SEPARATION

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[dBm]	Verdict
DH1	Ant1	Hop	1.000	≥ 0.746	PASS
2DH1	Ant1	Hop	1.018	≥ 0.920	PASS
3DH1	Ant1	Hop	0.988	≥ 0.926	PASS

Test Graphs



10.4 APPENDIX: TIME OF OCCUPANCY

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	320	0.128	<=0.4	PASS
DH3	Ant1	Hop	1.67	160	0.267	<=0.4	PASS
DH5	Ant1	Hop	2.89	107	0.308	<=0.4	PASS

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

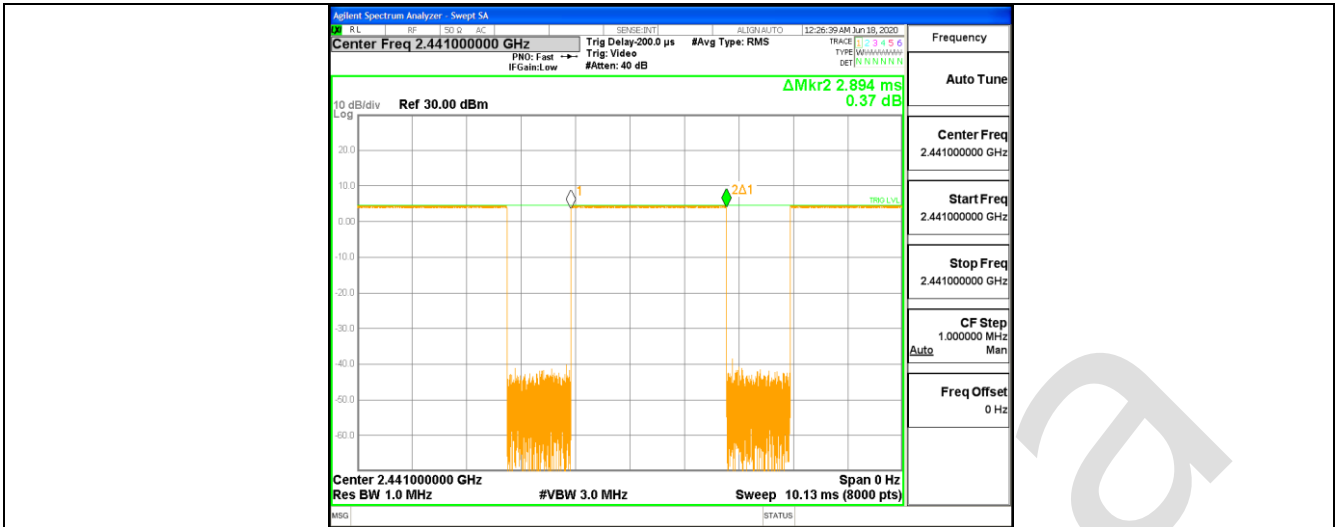
DH1/2-DH1/3-DH1 time slot = $0.40(\text{ms}) \times (1600 / (2 \times 79)) \times 31.6 = 128.00 \text{ ms}$

DH3/2-DH3/3-DH3 time slot = $1.67(\text{ms}) \times (1600 / (4 \times 79)) \times 31.6 = 267.20 \text{ ms}$

DH5/2-DH5/3-DH5 time slot = $2.89(\text{ms}) \times (1600 / (6 \times 79)) \times 31.6 = 308.27 \text{ ms}$

Test Graphs





10.5 APPENDIX F: NUMBER OF HOPPING CHANNELS**Test Result**

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥ 15	PASS
2DH1	Ant1	Hop	79	≥ 15	PASS
3DH1	Ant1	Hop	79	≥ 15	PASS

Test Graphs



10.6 APPENDIX: BAND EDGE MEASUREMENTS

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	6.59	-55.82	<=-13.41	PASS
		High	2480	5.64	-55.13	<=-14.36	PASS
		Low	Hop_2402	6.60	-44.29	-13.4	PASS
		High	Hop_2480	5.75	-54.83	-14.25	PASS
2DH1	Ant1	Low	2402	4.83	-53.47	<=-15.18	PASS
		High	2480	3.88	-54.07	<=-16.13	PASS
		Low	Hop_2402	4.65	-52.01	-15.35	PASS
		High	Hop_2480	4.03	-54.04	-15.97	PASS
3DH1	Ant1	Low	2402	4.84	-53.73	<=-15.16	PASS
		High	2480	3.89	-53.97	<=-16.11	PASS
		Low	Hop_2402	4.60	-52.48	-15.4	PASS
		High	Hop_2480	4.02	-53.62	-15.98	PASS