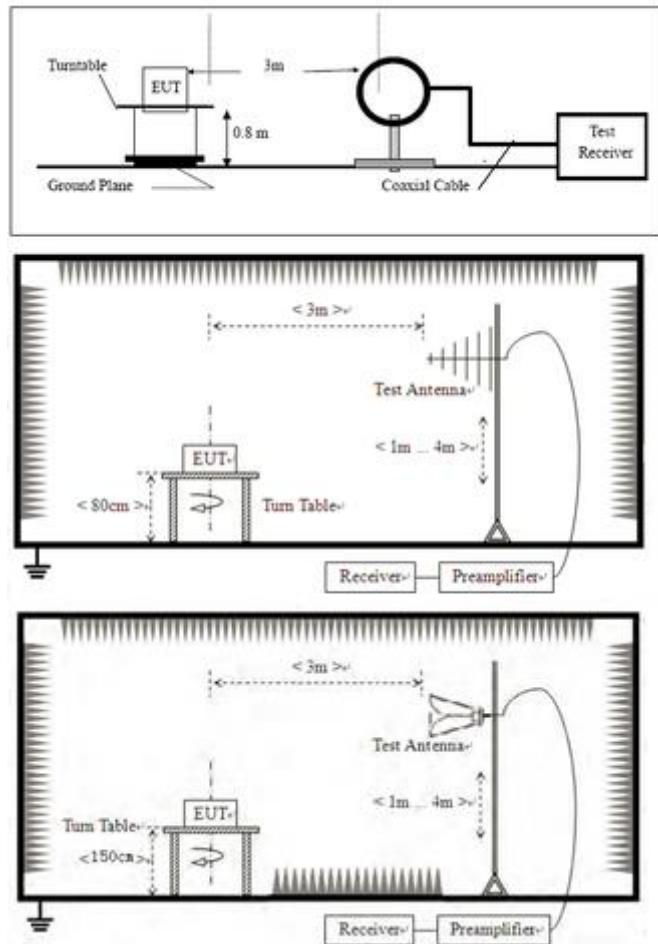


20.2 BLOCK DIAGRAM OF TEST SETUP



20.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- 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.

BlueAsia

20.4 TEST DATA

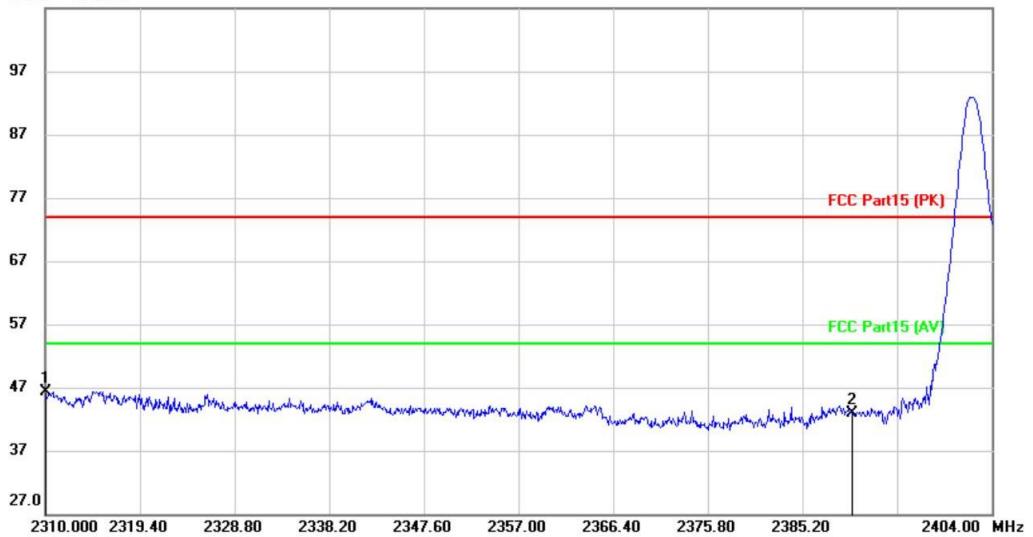
Remark: During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

[TestMode: TX Low channel]; [Polarity: Horizontal]

Radiated Emission Measurement

File : BT Data : #8 Date: 2021/3/17 星期 Time: 上午 10:53:13

107.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Haylou Wireless Earbuds

Distance: 3m

M/N: Haylou T60

Mode: BT-TX-L

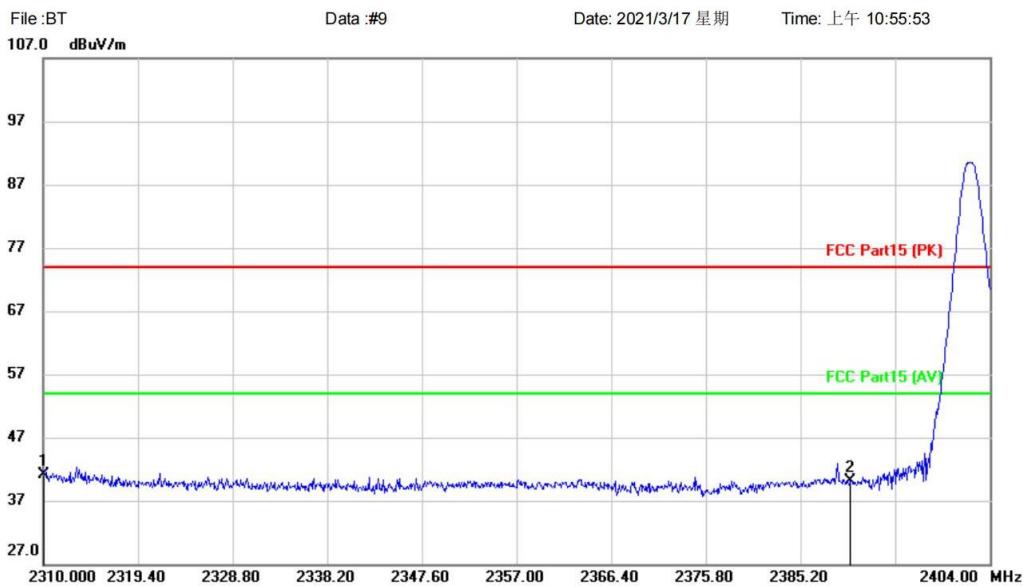
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2310.000	64.90	-18.60	46.30	74.00	-27.70	peak			
2		2390.000	61.27	-18.37	42.90	74.00	-31.10	peak			

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

(Reference Only)

Test Result: Pass

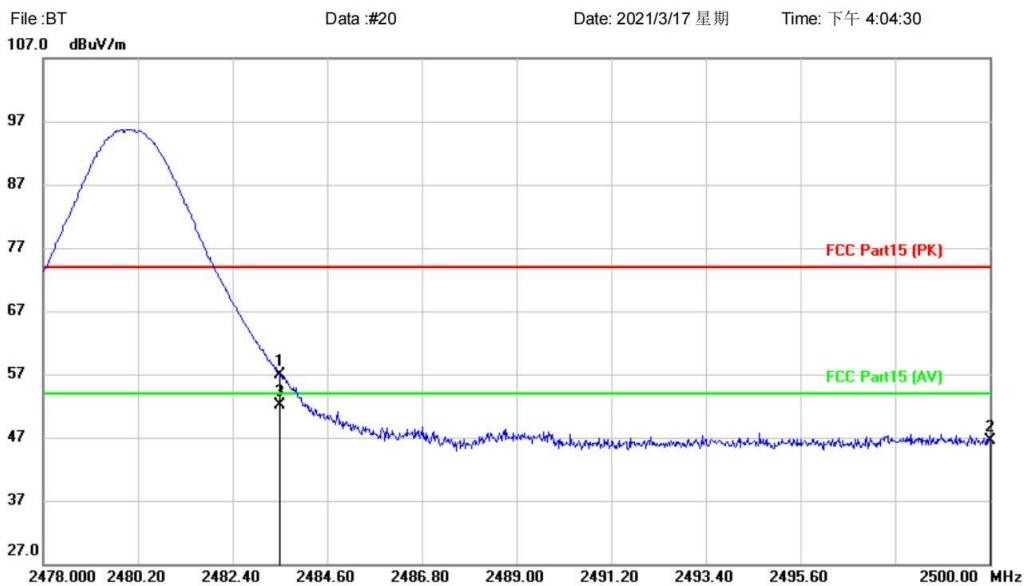
[TestMode: TX Low channel]; [Polarity: Vertical]
Radiated Emission Measurement

Site
Polarization: Vertical
Temperature:
Limit: FCC Part15 (PK)
Power:
Humidity: %
EUT: Haylou Wireless Earbuds
Distance: 3m
M/N: Haylou T60
Mode: BT-TX-L
Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2310.000	59.66	-18.60	41.06	74.00	-32.94	peak		
2		2390.000	58.50	-18.37	40.13	74.00	-33.87	peak		

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

⟨Reference Only⟩

Test Result: Pass

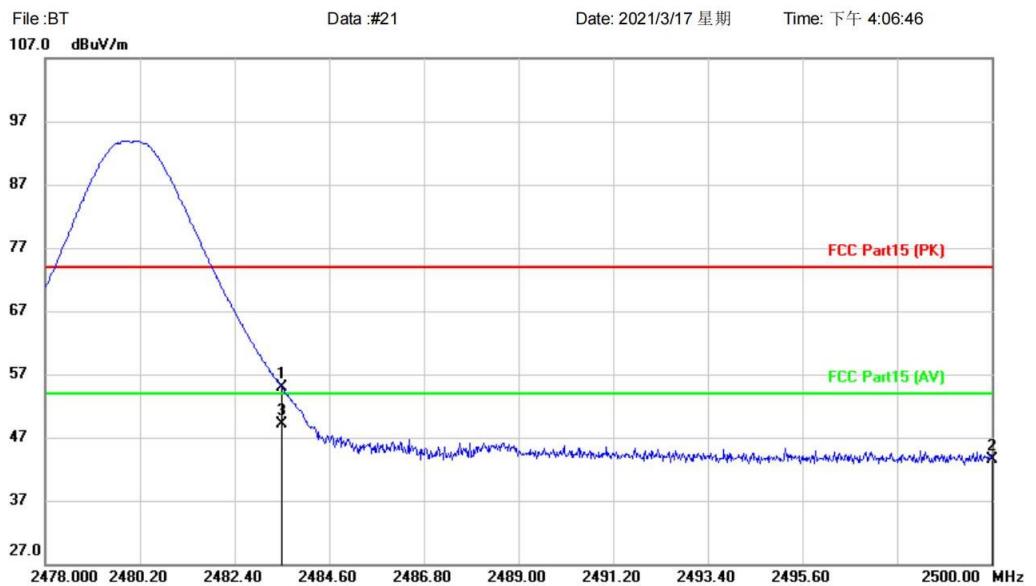
[TestMode: TX high channel]; [Polarity: Horizontal]
Radiated Emission Measurement

Site
Polarization: Horizontal
Temperature:
Limit: FCC Part15 (PK)
Power:
Humidity: %
EUT: Haylou Wireless Earbuds
Distance: 3m
M/N: Haylou T60
Mode: BT-TX-H
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2483.500	71.72	-14.79	56.93	74.00	-17.07	peak		
2		2500.000	61.30	-14.72	46.58	74.00	-27.42	peak		
3	*	2483.500	66.91	-14.79	52.12	54.00	-1.88	AVG		

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

⟨Reference Only⟩

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Vertical]
Radiated Emission Measurement


Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: Haylou Wireless Earbuds

Distance: 3m

M/N: Haylou T60

Mode: BT-TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2483.500	69.77	-14.79	54.98	74.00	-19.02	peak		
2		2500.000	58.21	-14.72	43.49	74.00	-30.51	peak		
3	*	2483.500	63.88	-14.79	49.09	54.00	-4.91	AVG		

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

⟨Reference Only⟩

Test Result: Pass

21 APPENDIX

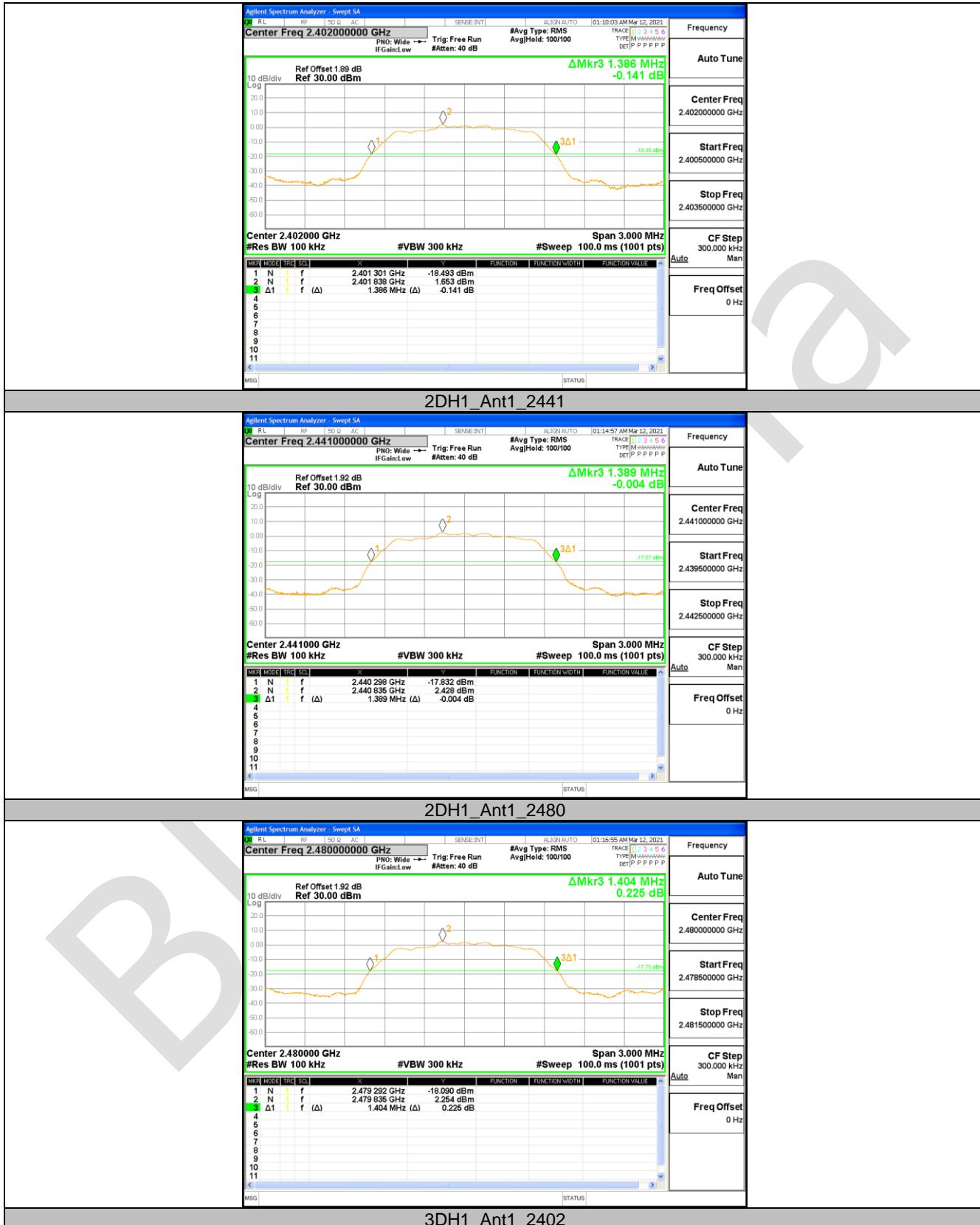
21.1 APPENDIX A: 20DB EMISSION BANDWIDTH

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.104	2401.442	2402.546	---	PASS
		2441	1.107	2440.442	2441.549	---	PASS
		2480	1.101	2479.445	2480.546	---	PASS
2DH1	Ant1	2402	1.386	2401.301	2402.687	---	PASS
		2441	1.389	2440.298	2441.687	---	PASS
		2480	1.404	2479.292	2480.696	---	PASS
3DH1	Ant1	2402	1.368	2401.310	2402.678	---	PASS
		2441	1.365	2440.313	2441.678	---	PASS
		2480	1.365	2479.313	2480.678	---	PASS

Test Graphs





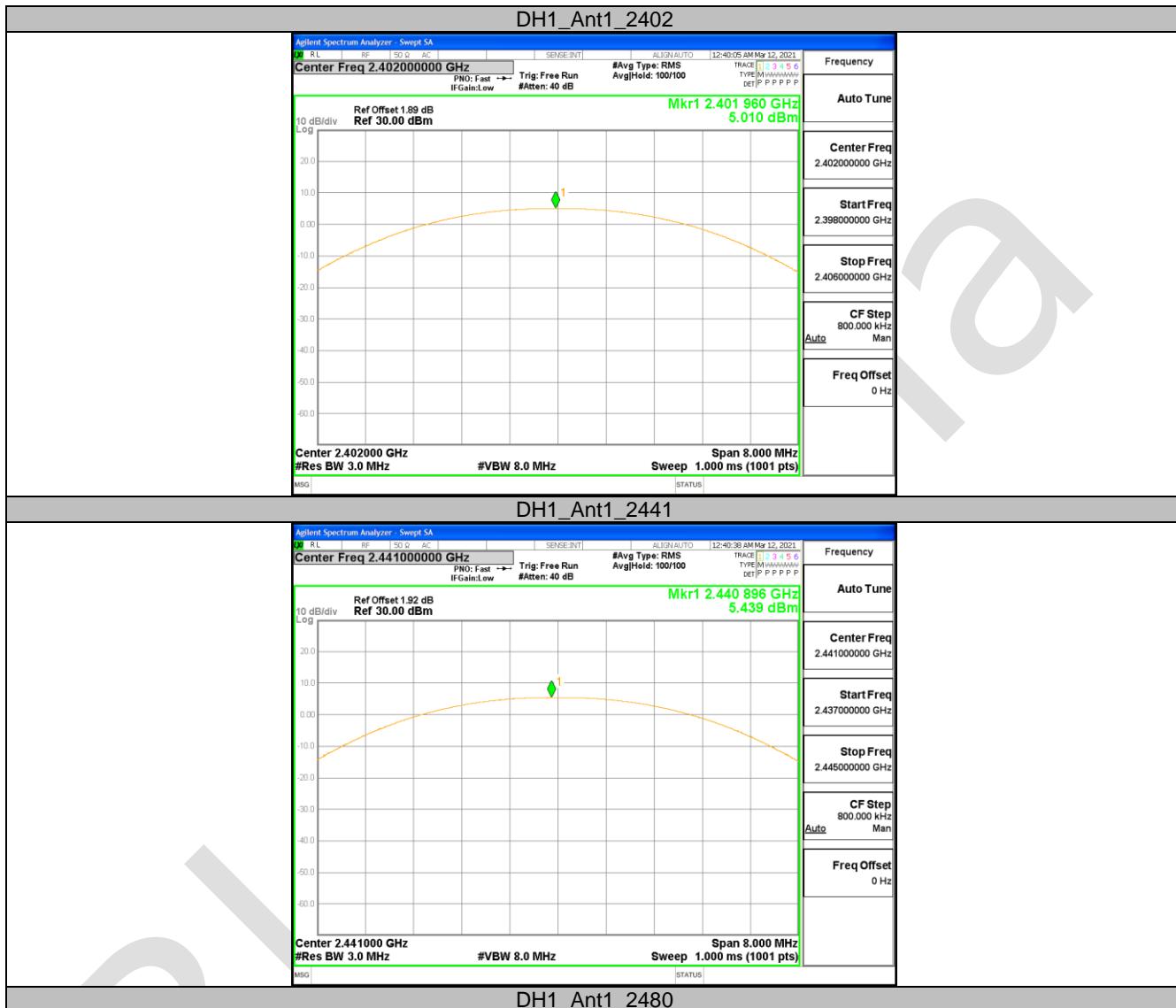


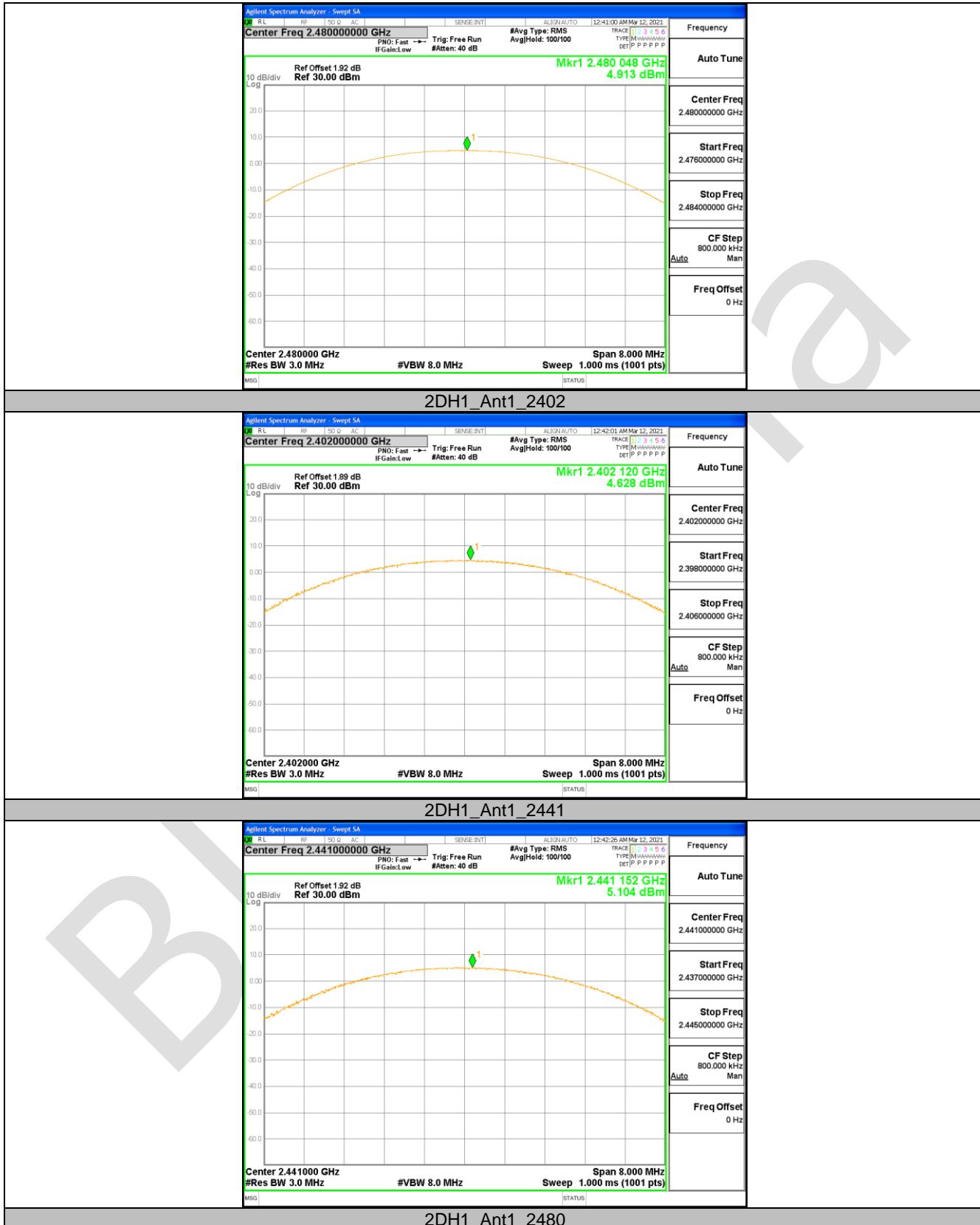
21.2 APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

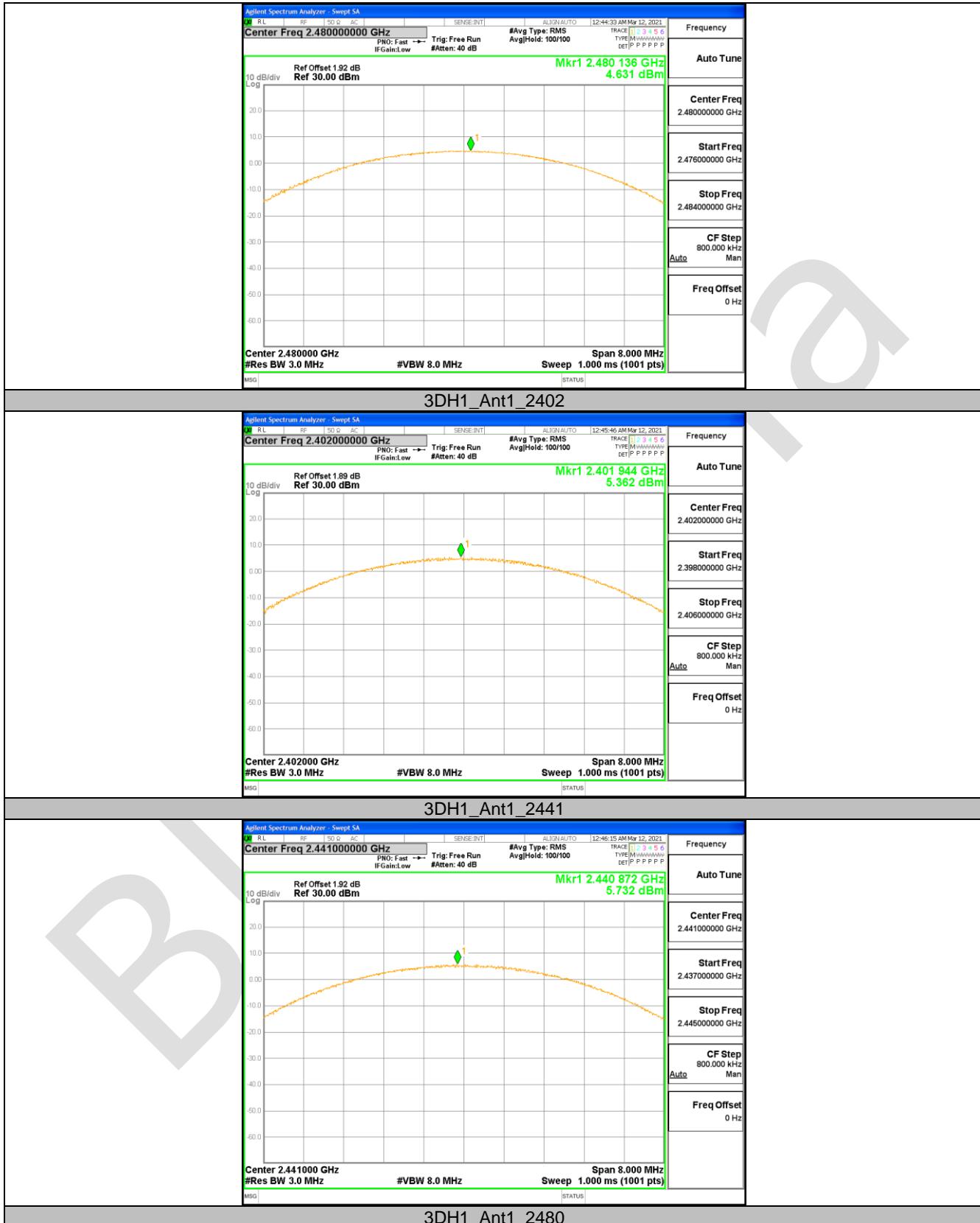
Test Result

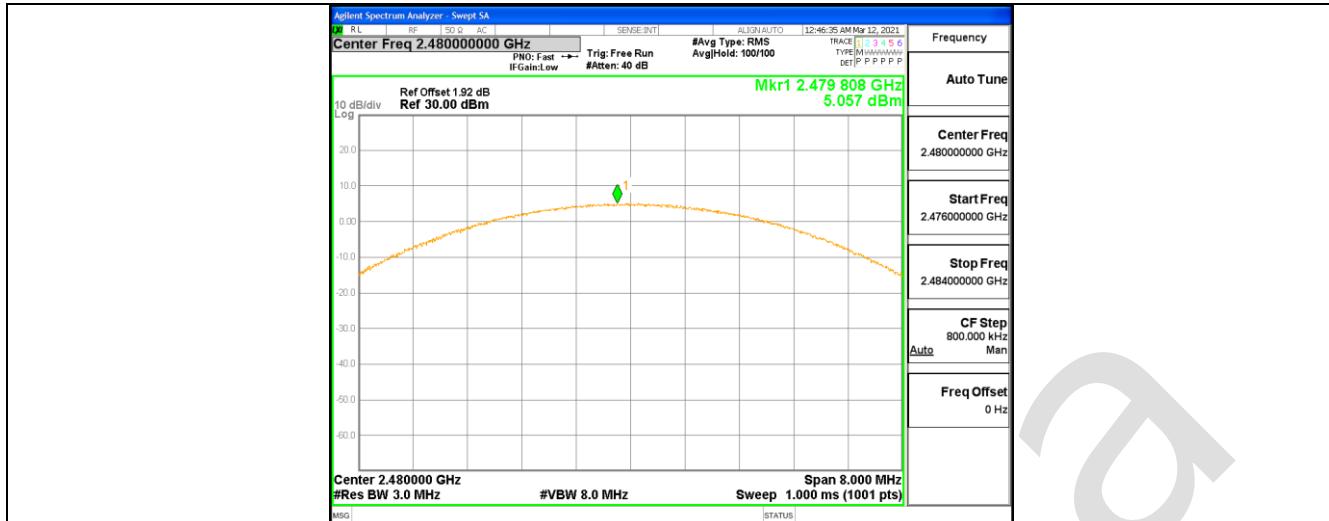
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	5.01	<=30	PASS
		2441	5.44	<=30	PASS
		2480	4.91	<=30	PASS
2DH1	Ant1	2402	4.63	<=30	PASS
		2441	5.1	<=30	PASS
		2480	4.63	<=30	PASS
3DH1	Ant1	2402	5.36	<=30	PASS
		2441	5.73	<=30	PASS
		2480	5.06	<=30	PASS

Test Graphs









21.3 APPENDIX D: CARRIER FREQUENCY SEPARATION

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	0.988	>=0.738	PASS
2DH1	Ant1	Hop	1.004	>=0.936	PASS
3DH1	Ant1	Hop	0.998	>=0.912	PASS

Test Graphs



21.4 APPENDIX E: TIME OF OCCUPANCY

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.126	<=0.4	PASS
DH3	Ant1	Hop	1.64	160	0.262	<=0.4	PASS
DH5	Ant1	Hop	2.89	120	0.346	<=0.4	PASS

Test Graphs

