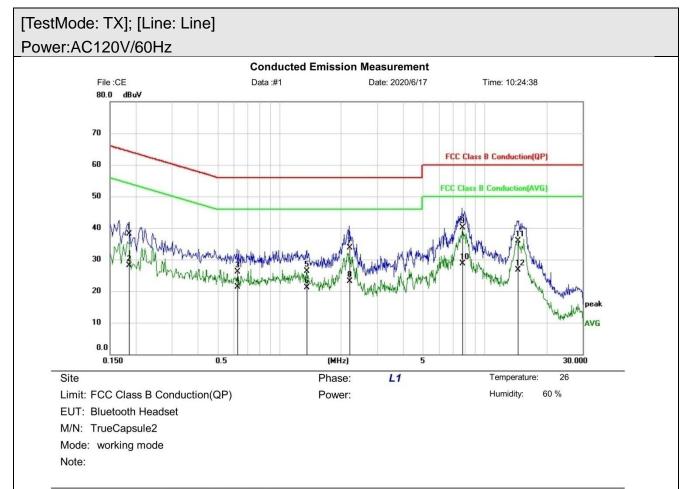


### 10.4 TEST DATA



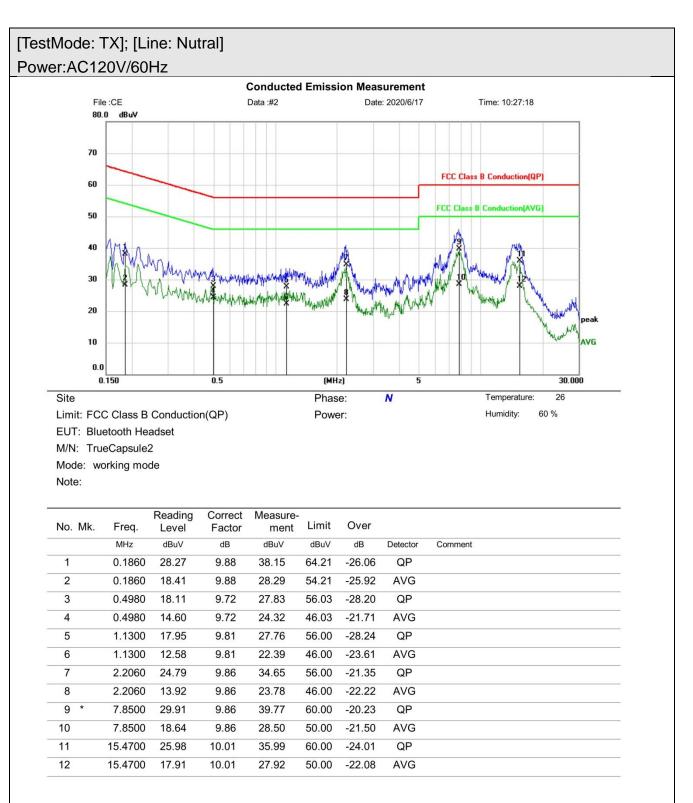
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1860	28.29	9.88	38.17	64.21	-26.04	QP	
2	0.1860	18.30	9.88	28.18	54.21	-26.03	AVG	
3	0.6260	16.40	9.72	26.12	56.00	-29.88	QP	
4	0.6260	11.61	9.72	21.33	46.00	-24.67	AVG	
5	1.3619	16.51	9.83	26.34	56.00	-29.66	QP	
6	1.3619	11.18	9.83	21.01	46.00	-24.99	AVG	
7	2.1980	23.98	9.82	33.80	56.00	-22.20	QP	
8	2.1980	13.35	9.82	23.17	46.00	-22.83	AVG	
9 *	7.7780	30.21	9.87	40.08	60.00	-19.92	QP	
10	7.7780	18.79	9.87	28.66	50.00	-21.34	AVG	
11	14.5140	25.95	9.97	35.92	60.00	-24.08	QP	
12	14.5140	16.76	9.97	26.73	50.00	-23.27	AVG	

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

(Reference Only

### **Test Result: Pass**





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

(Reference Only

### **Test Result: Pass**



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)	ТХ				
Test Mode (Final Test)	ТХ				
Tester	Eason				
Temperature	26°C				
Humidity	54%				

## **11 RADIATED SPURIOUS EMISSIONS**

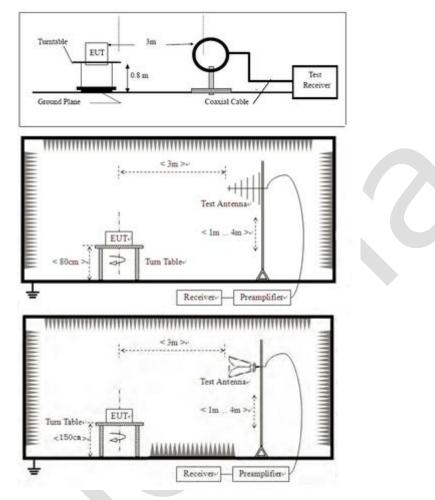
#### 11.1 LIMITS

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

a. 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.

b. 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.

c. 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.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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:

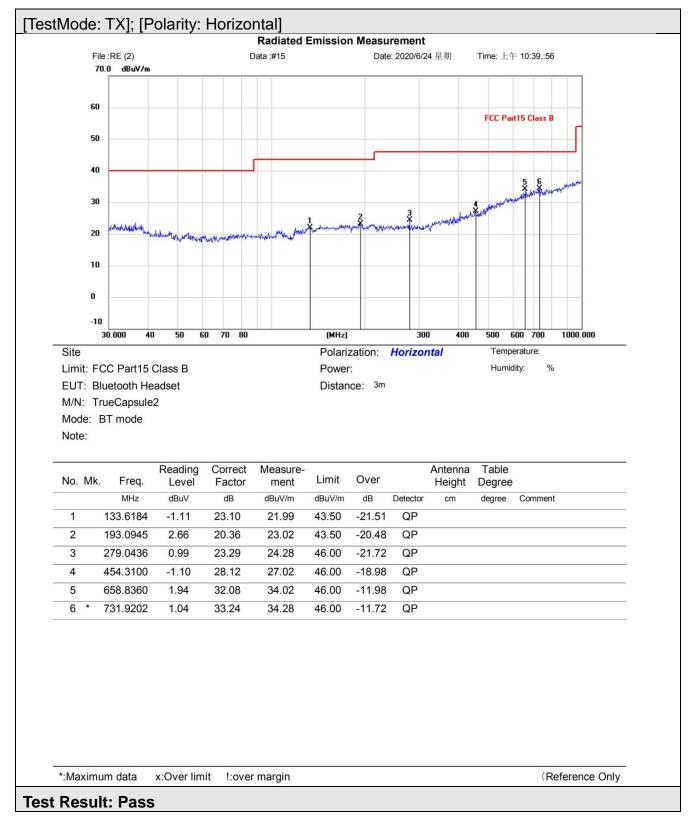
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor C Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 7GHz 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.

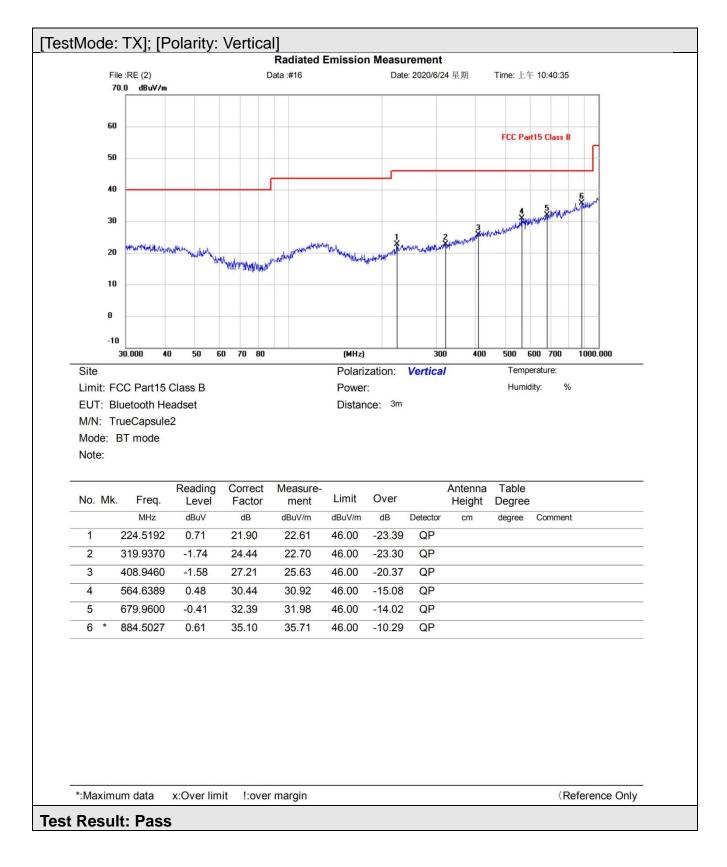
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower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



#### 11.4 TEST DATA

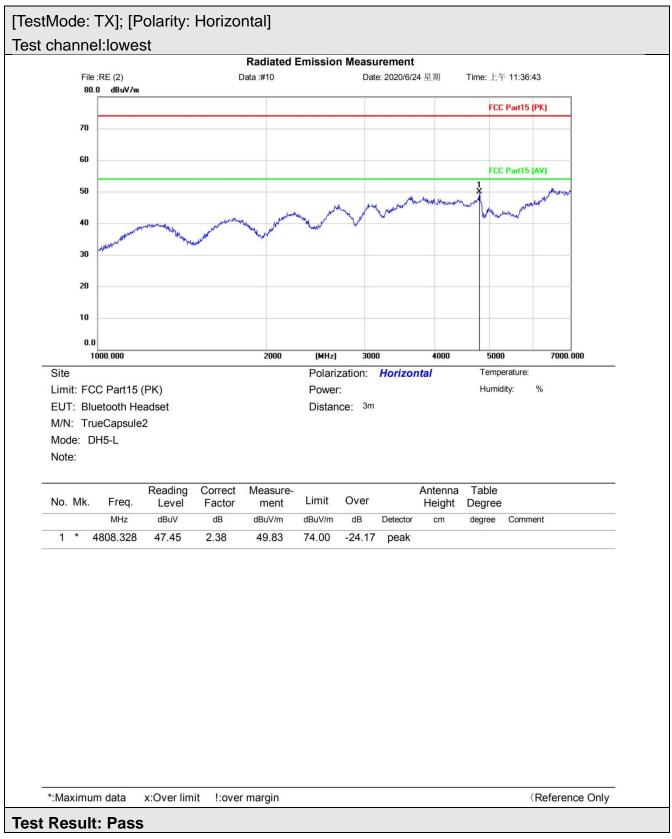




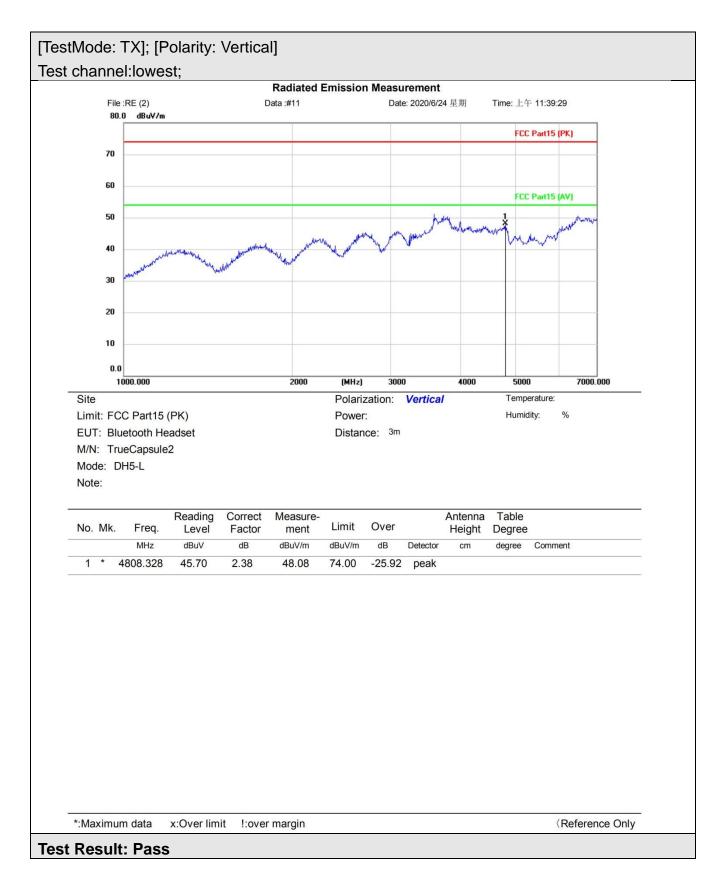




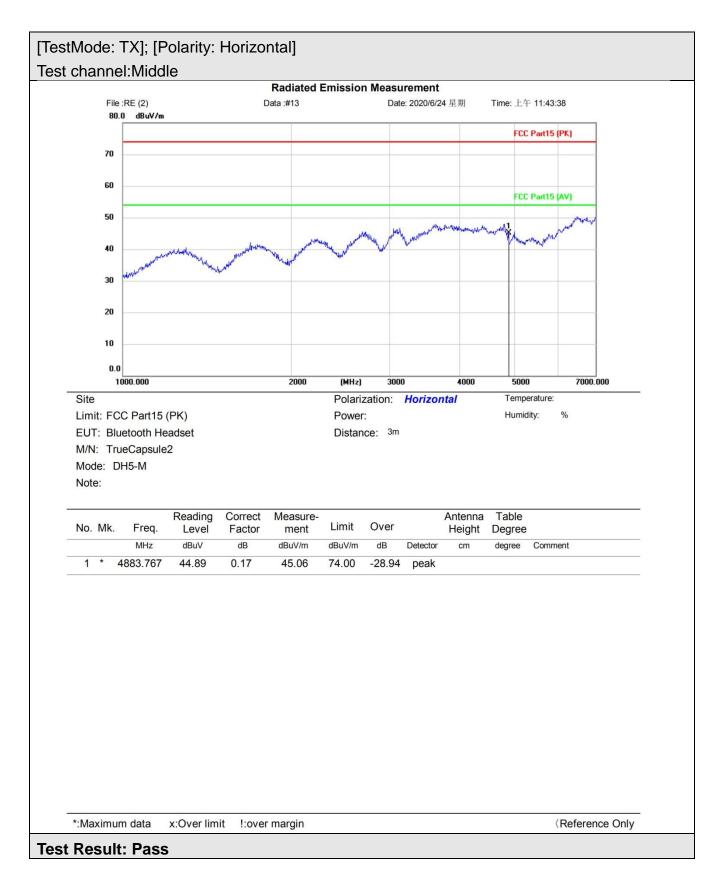
Remark: During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the GFSK DH5 modulation which it is worse case.



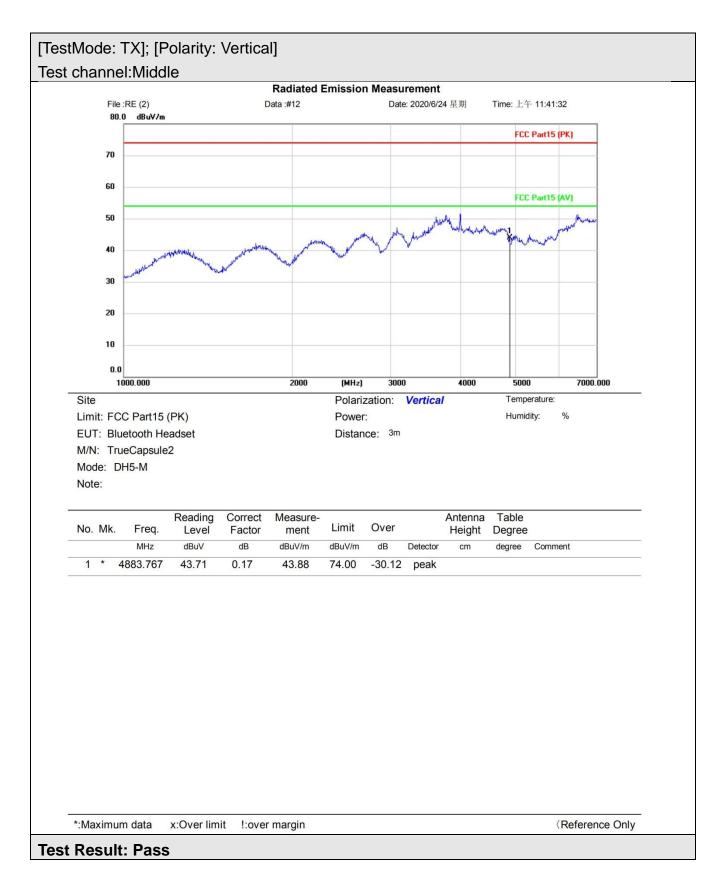




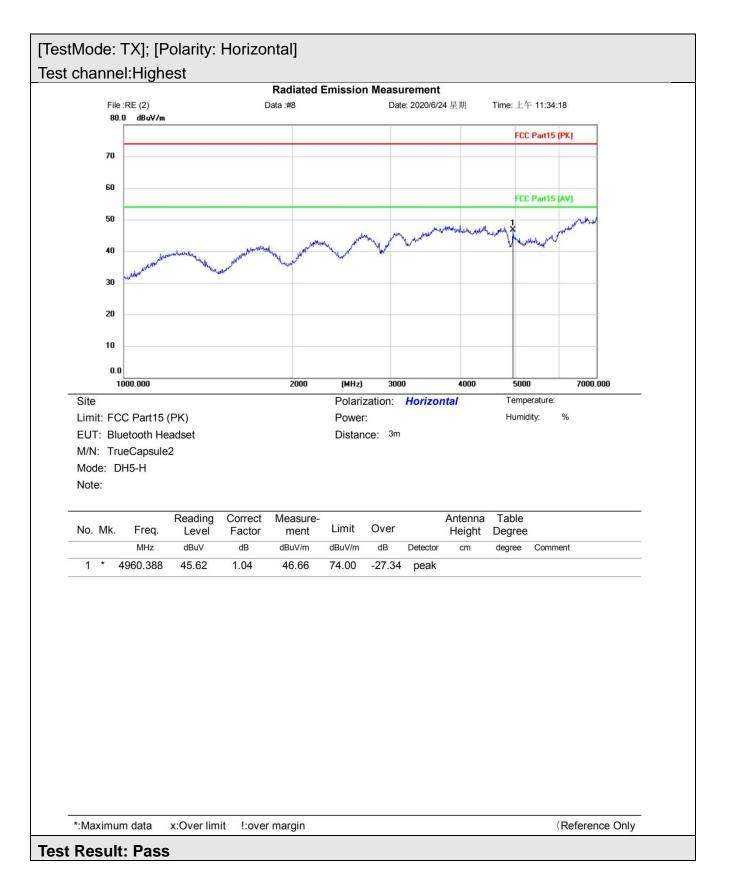




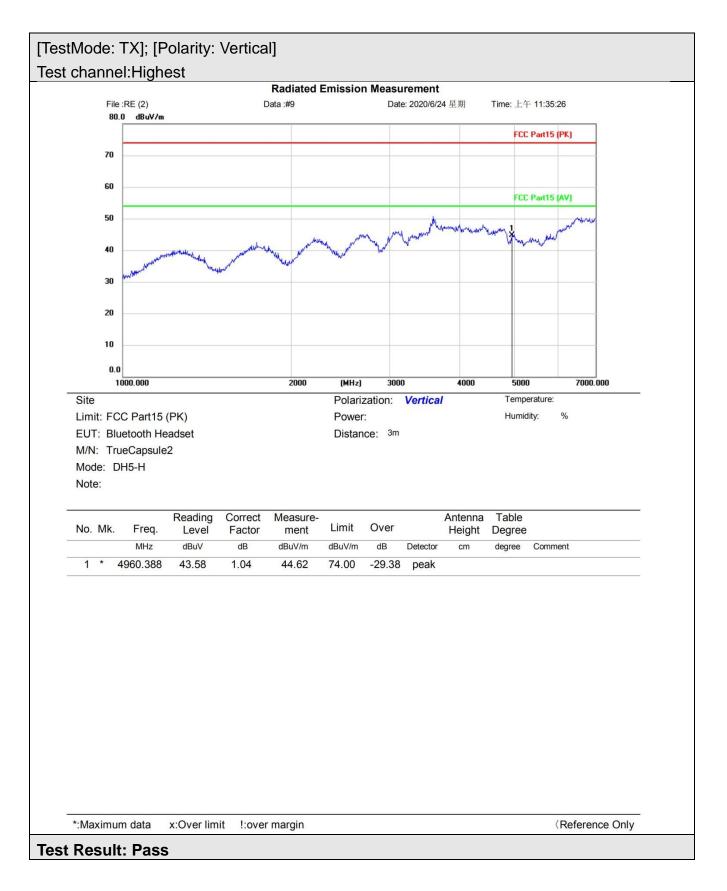














## **10 APPENDIX**

### 10.1 APPENDIXA: 20DBEMISSION BANDWIDTH

### Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.086	2401.451	2402.537		PASS
DH1	Ant1	2441	1.086	2440.451	2441.537		PASS
		2480	1.086	2479.445	2480.531		PASS
		2402	1.320	2401.328	2402.648		PASS
2DH1	Ant1	2441	1.326	2440.325	2441.651		PASS
		2480	1.323	2479.328	2480.651		PASS
		2402	1.308	2401.337	2402.645		PASS
3DH1	Ant1	2441	1.305	2440.337	2441.642		PASS
		2480	1.311	2479.334	2480.645		PASS







			Fage 49 0100	
Agilent Spectrum Analyzer - Swept SA           Dr         RL         RF         50 Q         AC         SENSE:INT           Center Freq 2.402000000 GHz         Trig: Free Bun	ALIGNAUTO 10:23:30 PM 3ul 26, 2020 #Avg Type: RMS TRACE 1 2 3 4 5 6	Frequency		
Center Freq 2.40200000 GHz PRO: Wide IFGain:Low #Atten: 40 dB	Avg Hold: 100/100 TYPE MUMANNAN DET PPPPP	Auto Tune		
Ref Offset 1.89 dB 10 dB/div Ref 30.00 dBm	ΔMkr3 1.320 MHz 0.177 dB			
20.0		Center Freq 2.402000000 GHz		
100				
-20.0	3∆1 20.62 dBn	Start Freq 2.400500000 GHz		
-40.0	the second	Stop Freq		
-60.0		2.403500000 GHz		
Center 2.402000 GHz #Res BW 100 kHz #VBW 300 kHz	Span 3.000 MHz #Sweep 100.0 ms (1001 pts)	CF Step 300.000 kHz		
MXR MODE         TED         X         Y         FU           1         N         1         f         2.401         328         GHz         -20.848         dBm           2         N         1         f         2.401         326         GHz         -0.619         dBm	NCTION FUNCTION WIDTH FUNCTION VALUE	<u>Auto</u> Man		
<b>3</b> Δ1 1 f (Δ) 1.320 MHz (Δ) 0.177 dB 4 5		Freq Offset 0 Hz		
6 7 8				
9 10 11				
 K MSG	STATUS			
2DH1_Ar	nt1_2441			
Agilent Spectrum Analyzer - Swept SA	ALIGNALITO 10:25:00 PM 3/26, 2020 #Avg Type: RMS TRACE 123456 Avg Hold: 100/100 TYPE Mutanumus DEP P P P P P	Frequency		
IFGain:Low #Atten: 40 dB	ΔMkr3 1.326 MHz	Auto Tune		
Ref Offset 1.92 dB 10 dB/div Ref 30.00 dBm	0.277 dB			
20.0 10.0		Center Freq 2.441000000 GHz		
10.00		Start Freq		
-30.0	-20.81.dBm	2.439500000 GHz		
40.0 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	Mar and a second and a second and a second and a second a	Stop Freq 2.442500000 GHz		
-80.0 Center 2.441000 GHz	Span 3.000 MHz			
#Res BW 100 kHz #VBW 300 kHz	#Sweep 100.0 ms (1001 pts)	CF Step 300.000 kHz Auto Man		
1 N 1 f 2.440 325 GHz -21.251 dBm 2 N 1 f 2.440 823 GHz -0.809 dBm 3 Δ1 1 f (Δ) 1.326 MHz (Δ) 0.277 dB		Freq Offset		
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 Hz		
- 7 - 8 - 9				
10	*			
	STATUS			
2DH1_Ar Agilent Spectrum Analyzer - Swept SA				
Addient Spectrum Analyzer - Swegt SA ■ RL 157 500 AC SPECE3NT Center Freq 2.480000000 GHz PR0: Wide → FGaint.ew SAtte:: 40 dB	ALIGNAUTO 10:25:43 PM Jul 26, 2020 #Avg Type: RMS TRACE 1 2 3 4 5 6 Avg Hold: 100/100 TYPE M WAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Frequency		
Ref Offset 1.92 dB	ΔMkr3 1.323 MHz -0.194 dB	Auto Tune		
10 dB/div Ref 30.00 dBm Log 20 0	-0.194 QB	Center Freq		
		2.480000000 GHz		
-10.0	3∆1 -20.27 dBm	Start Freq 2.478500000 GHz		
-30.0		2.47000000 GHZ		
-50.0	Margaret and a start high	Stop Freq 2.481500000 GHz		
Center 2.480000 GHz	Span 3.000 MHz	CF Step		
#Res BW 100 kHz #VBW 300 kHz	#Sweep 100.0 ms (1001 pts)	300.000 kHz <u>Auto</u> Man		
1 N 1 f 2.479 328 GHz -20.366 dBm 2 N 1 f 2.479 823 GHz -0.272 dBm 3 Δ1 1 f (Δ) 1.323 MHz (Δ) -0.194 dB 4		FreqOffset		
4 5 6 7 8		0 Hz		
9				
11 K	STATUS			
3DH1_Ar				



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			1 age 30 0100	
	Applent Spectrum Analyzer - Swept SA           N         R.L         RF         50.Q         Ac         SENSE:INT         ALIGNAUTO         10:27:30 PM Jul26, 20	IZO Erecuenci		
	01 RL RF 50.0 AC SEVEENT ALSTAUTO 10.27-30 PM AU&20 Center Freq 2.402000000 GHz PNO: Wide Trig: Free Run PNO: Wide Maxwar #Aten: 40 dB Volume Augitedd: 100/100 TVPE/Maxwar #Aten: 40 dB	Frequency		
	Ref Offset 1.89 dB	Hz Auto Tune		
	10 dBldiv Ref 30.00 dBm -0.156 c	Center Freq		
		2.402000000 GHz		
	-10.0	Start Freq		
	300	2.400500000 GHz		
	40.0	Stop Freq		
		2.403500000 GHz		
	Center 2.402000 GHz Span 3.000 M #Res BW 100 KHz #VBW 300 KHz #Sweep 100.0 ms (1001 p			
	MKR  MODE   TAC  SCL X Y FUNCTION VIDTH   FUNCTION VALUE	Auto Man		
	1 N 1 f 2.401337 GHz -20.776 dBm 2 N 1 f 2.402 156 GHz -0.540 dBm 1.016 MHz (Δ) -0.166 dB	Freq Offset		
	4 5 6 7	0 Hz		
	8			
	9 10 11			
	AISO STATUS			
	3DH1_Ant1_2441			
	Agilent Spectrum Analyzer - Swept SA DG RL RF   50 Q AC   SENSE:INT   ALIGN AUTO   10:29:00 PM 3u/26, 20	120 Frequency		
	Center Freq 2.441000000 GHz         #Avg Type: RMS         #Avg Type: RMS           PNO: Wide →→         Trig: Free Run         Avg[Hold: 100/100         Trig: Free Run           Bround: Avg Type: RMS         #Avg Type: RMS         Trig: Free Run         Avg[Hold: 100/100	Frequency		
	Ref Offset 1.92 dB	Hz Auto Tune	Ť	
	10 dB/div Ref 30.00 dBm 0.150 c	Center Freq		
	10.0	2.441000000 GHz		
		0		
	-20.0	2.439500000 GHz		
	300 400	***		
		2.442500000 GHz		
	Center 2.441000 GHz Span 3.000 M	IHz CF Step		
	#Res BW 100 kHz #VBW 300 kHz #Sweep 100.0 ms (1001 p [wce] wode] rec] scu x v punction _punction with _ punction _ punct	ots) 300.000 kHz		
	1 N 1 f 2.440 337 GHz -20.990 dBm 2 N 1 f 2.441 159 GHz -0.725 dBm			
	4 5 6 7	Freq Offset 0 Hz		
	8			
	9 10 11			
	MSG STATUS	<b>X</b>		
	3DH1_Ant1_2480			
	Agitent Spectrum Analyzer - Swept SA 00 RL RF 50 Ω AC SENSE:INT ALIGNAUTO 10:29-48 PM 3/26, 20	120		
	Center Freq 2.4800000000 GHz PN0: Wide →→ IFGinLive Add Add Add Add Add Add Add Add Add Ad	Frequency		
	ΔMkr3 1.311 M	Hz Auto Tune		
	10 dB/div Ref 018(1 J2 dB 0.0183 c			
	10.0	Center Freq 2.48000000 GHz		
	100 201			
	-20.0	2.478500000 GHz		
		Stop Freq 2.481500000 GHz		
	Center 2.480000 GHz Span 3.000 M	IHz CF Step		
	#Res BW 100 kHz #VBW 300 kHz #Sweep 100.0 ms (1001 p	300.000 kHz		
	1 N 1 f 2.479 334 GHz -20.685 dBm 2 N 1 f 2.480 156 GHz -0.223 dBm			
	3         Δ1         f         (Δ)         1.311 MHz         (Δ)         0.183 dB           5         6         7         7         7	Freq Offset 0 Hz		
	8			
	9 10 11			
	A STATUS	× T		
L				

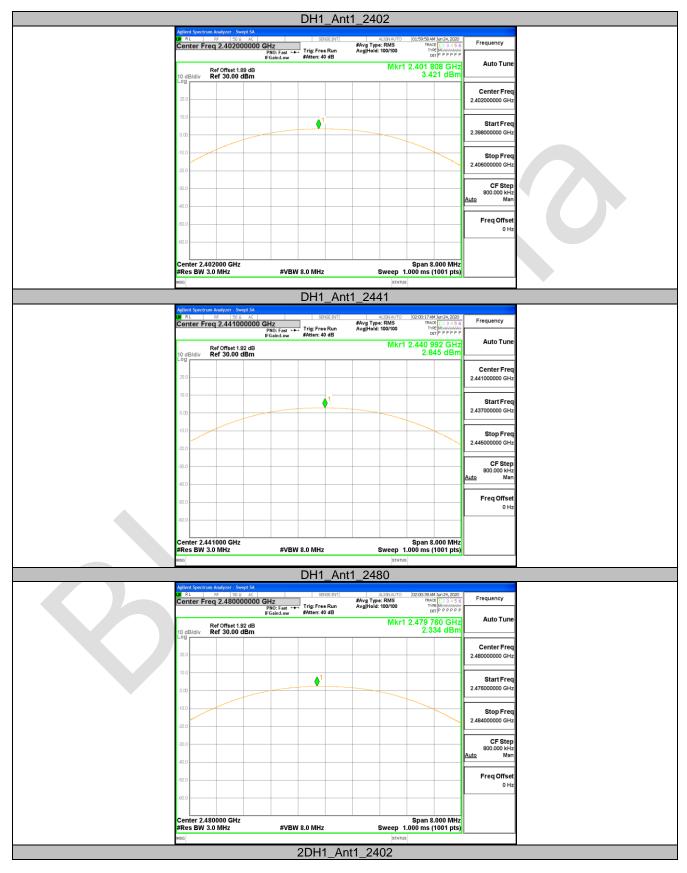


## 10.2 APPENDIX: MAXIMUM CONDUCTED OUTPUT POWER

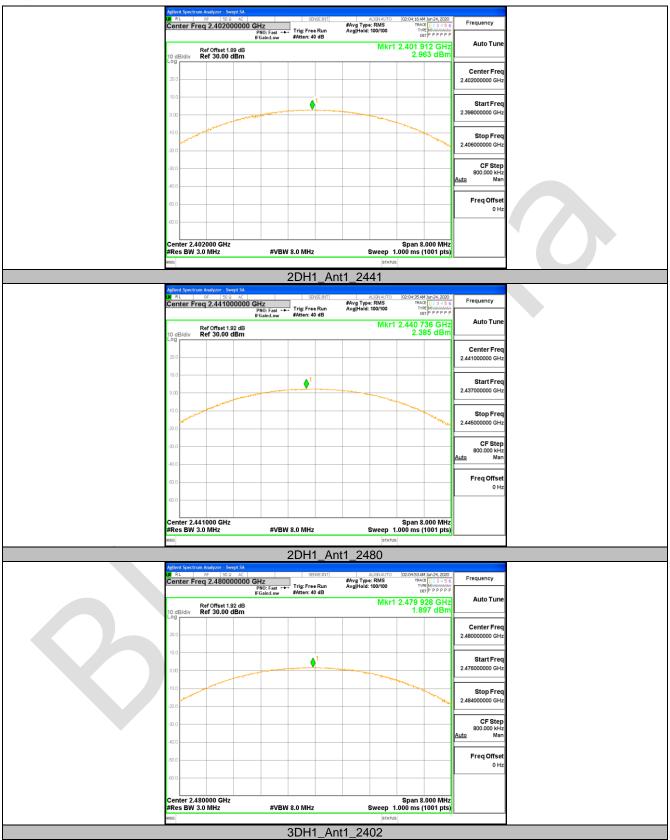
### **Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	3.42	<=20.97	PASS
DH1	Ant1	2441	2.85	<=20.97	PASS
		2480	2.33	<=20.97	PASS
	Ant1	2402	2.96	<=20.97	PASS
2DH1		2441	2.38	<=20.97	PASS
		2480	1.90	<=20.97	PASS
		2402	3.53	<=20.97	PASS
3DH1	Ant1	2441	2.97	<=20.97	PASS
		2480	2.40	<=20.97	PASS

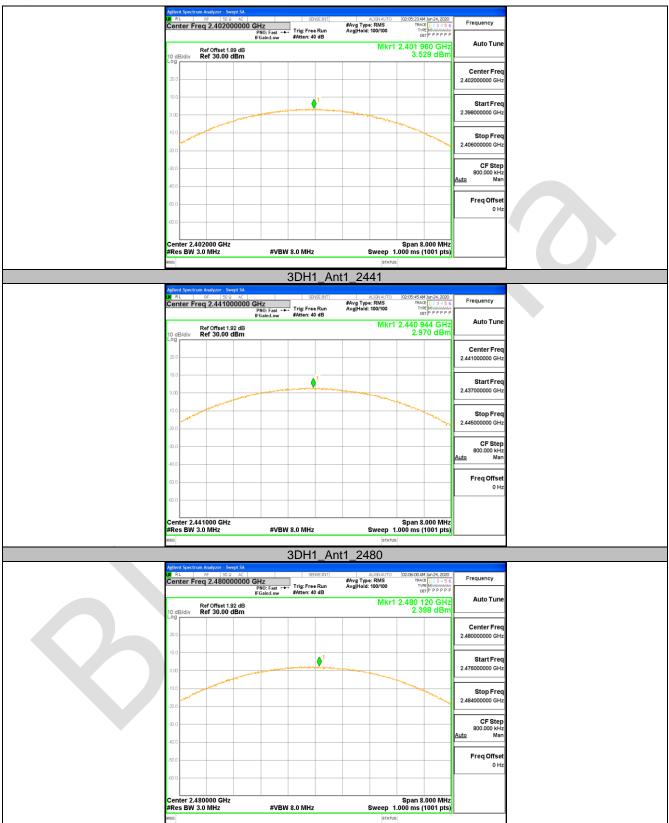














#### **10.3 APPENDIX: CARRIER FREQUENCY SEPARATION**

### **Test Result**

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Нор	1.018	>=0.748	PASS
2DH1	Ant1	Нор	1.158	>=0.918	PASS
3DH1	Ant1	Нор	0.992	>=0.926	PASS







### 10.4 APPENDIX: TIME OF OCCUPANCY

#### **Test Result**

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1/2-DH1/3-DH1	128.00	400	Pass
2441MHz	DH3/2-DH3/3-DH3	267.20	400	Pass
2441MHz	DH5/2-DH5/3-DH5	308.26	400	Pass

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Test channel: 2441MHz as blow

DH1/2-DH1/3-DH1 time slot=0.40(ms)\*(1600/ (2\*79))\*31.6=128.00ms DH3/2-DH3/3-DH3 time slot=1.67(ms)\*(1600/ (4\*79))\*31.6=267.20ms DH5/2-DH5/3-DH5 time slot=2.89(ms)\*(1600/ (6\*79))\*31.6=308.26ms







#### **10.5 APPENDIXF: NUMBER OF HOPPING CHANNELS**

#### **Test Result**

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Нор	79	>=15	PASS
2DH1	Ant1	Нор	79	>=15	PASS
3DH1	Ant1	Нор	79	>=15	PASS







#### **10.6 APPENDIX: BAND EDGE MEASUREMENTS**

### **Test Result**

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
		Low	2402	-0.73	-55.34	<=-20.73	PASS	
DH1	A mt1	High	2480	-0.36	-54.69	<=-20.36	PASS	
DHI	Ant1	Low	Hop_2402	-6.23	-55.73	-26.23	PASS	
		High	Hop_2480	-6.04	-55.25	-26.04	PASS	
	Ant1		Low	2402	-0.73	-55.57	<=-20.73	PASS
2DH1		High	2480	-0.33	-55.05	<=-20.33	PASS	
2011		Low	Hop_2402	-7.55	-55.53	-27.55	PASS	
		High	Hop_2480	-0.09	-54.81	-20.09	PASS	
		Low	2402	-0.63	-55.45	<=-20.63	PASS	
3DH1	Ant1	High	2480	-0.27	-55.39	<=-20.27	PASS	
3001	AILI	Low	Hop_2402	-6.65	-56.46	-26.65	PASS	
		High	Hop_2480	-7.24	-54.71	-27.24	PASS	







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Agilent Spectrum Analyzer - Swept SA           R RL         RF         50 Q         AC         SENSE:INT	ALIGNAUTO 10:46:04 PM Jul 26, 2020	Frequency	
Center Freq 2.352500000 GHz PN0: Fast IFGain:Low #Atten: 30 dB	#Avg Type: RMS Avg Hold: 300/300		
Ref Offset 1.87 dB 10 dB/div Ref 20.00 dBm	Mkr5 2.372 345 GHz -55.533 dBm	Auto Tune	
10.0		Center Freq	
-10.0		2.352500000 GHz	
-20.0	-27.55 dBn	Start Freq 2.30000000 GHz	
-40.0			
-60.0 menultrandiation of the transfer of a second second second second at the	and the second	Stop Freq 2.40500000 GHz	
-70.0 Start 2.30000 GHz	Stop 2.40500 GHz	CF Step	
#Res BW 100 kHz #VBW 300 kHz	#Sweep 100.0 ms (1001 pts)	10.500000 MHz Auto Man	
1 N 1 f 2.402 060 GHz -7.554 dBm 2 N 1 f 2.400 000 GHz -58,199 dBm		Freq Offset	
3 N 1 f 2.390 000 GHz 57.632 dBm 4 N 1 f 2.310 000 GHz 58.873 dBm 5 N 1 f 2.372 345 GHz 56.533 dBm 6		0 Hz	
7 8 9			
10 11 <	~		
 MSG	STATUS		
2DH1_Ant1_H Agilent Spectrum Analyzer - Swept SA	ligh_Hop_2480		
X         RL         RF         SD Q         AC         SENSE:INT           Center Freq 2.510000000 GHz	ALIGNAUTO 10:35:16 PM Jul 26, 2020 #Avg Type: RMS TRACE 12:3:4:5:6 Avg Hold: 300/300 Type	Frequency	
IFGain:Low #Atten: 30 dB	Mkr4 2.514 96 GHz	Auto Tune	
Ref Offset 1.92 dB 10 dB/div Ref 20.00 dBm Log	-54.808 dBm		
		Center Freq 2.51000000 GHz	
-10.0	-20.09 dBm	Ctort From	
-30.0		Start Freq 2.470000000 GHz	
-50.0	4	Stop Freq	
-60.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2.550000000 GHz	
Start 2.47000 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 2.55000 GHz #Sweep 100.0 ms (1001 pts)	CF Step 8.000000 MHz	
1 N 1 f 2.471 84 GHz -0.088 dBm	FUNCTION FUNCTION WIDTH FUNCTION VALUE	<u>Auto</u> Man	
2 N 1 f 2.483 50 GHz -57.549 dBm 3 N 1 f 2.500 00 GHz -58.090 dBm 4 N 1 f 2.514 96 GHz -54.808 dBm		Freq Offset 0 Hz	
5 6 7			
8 9 10 11			
11 <	STATUS		
	Low_2402		
Agilent Spectrum Analyzer - Swept SA	ALIGNAUTO 10:28:12 PM Jul 26, 2020	Frequency	
Center Freq 2.352500000 GHz PN0: Fast	#Avg Type: RMS Avg Hold: 300/300 Det P P P P P		
Ref Offset 1.89 dB 10 dB/div Ref 20.00 dBm	Mkr5 2.312 705 GHz -55.447 dBm	Auto Tune	
	t	Center Freq	
10.0		2.352500000 GHz	
-20.0	-20.63 dBm	Start Freq 2.30000000 GHz	
-40.0			
-60.0 Contraction of the second descent of the second descent of the second descent of the second descendence of the secon		Stop Freq 2.405000000 GHz	
-70.0 Start 2.30000 GHz	Stop 2.40500 GHz	CF Step	
#Res BW 100 kHz #VBW 300 kHz	#Sweep 100.0 ms (1001 pts)	10.500000 MHz Auto Man	
1 N 1 f 2.402 165 GHz -0.632 dBm		Freq Offset	
2 N 1 f 2.400 000 GHz 51.776 dBm 3 N 1 f 2.380 000 GHz 58.231 dBm 4 N 1 f 2.330 000 GHz 56.388 dBm 5 N 1 f 2.310 000 GHz 56.388 dBm 6 7 7 8 9		0 Hz	
7 8 9			
10 11	×		
 MSG	STATUS		
3DH1_Ant1	_High_2480		



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	Agilent Spectrum Analyzer - Swept SA			
	OR         RL         RF         50 Ω         AC         SENSE:INT           Center Freq 2.510000000 GHz         Table Face Base	ALIGNAUTO 10:30:31 PM Jul 25, 2020 #Avg Type: RMS TRACE 1 2 3 4 5 6 Avg Hold: 300/300 Type Multivity	Frequency	1
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg[Hold: 300/300 TYPE Mutation Det P P P P P P		
	Ref Offset 1.92 dB	Mkr4 2.518 08 GHz	Auto Tune	
	10 dB/div Ref 20.00 dBm	-55.394 dBm		
	10.0		Center Freq	
	0.00		2.51000000 GHz	
	-10.0			
	-20.0		Start Freq	
	-40.0		2.47000000 GHz	
	50.0	<b>▲</b> 4		
	60.0 minister Manager and Andrews and Andrews	alay na ana ana ana ana ana ana ana ana an	Stop Freq 2.55000000 GHz	
	-70.0		2.55000000 GHz	
	Start 2.47000 GHz	Stop 2.55000 GHz	CF Step	
	#Res BW 100 kHz #VBW 300 kHz	#Sweep 100.0 ms (1001 pts)	8.000000 MHz Auto Man	
		NCTION FUNCTION WIDTH FUNCTION VALUE		
	1 N 1 f 2.480 16 GHz -0.266 dBm 2 N 1 f 2.483 50 GHz -57.748 dBm 3 N 1 f 2.500 00 GHz -56.807 dBm		Freq Offset	
	4 N 1 f 2.518 08 GHz -55.394 dBm 5		0 Hz	
	6 7			
	9			
	10 11	×		
	I≪ Internet in the second sec	STATUS		
		ow_Hop_2402		
	Agilent Spectrum Analyzer - Swept SA           Of         R L         RF         50 Q         AC         SENSE:INT	ALIGNAUTO 10:36:15 PM Jul 26, 2020		
	Center Freq 2.352500000 GHz PN0: Fast	#Avg Type: RMS TRACE 123456	Frequency	
	IFGain:Low #Atten: 30 dB	DET PPPPP	Auto Tune	-
	Ref Offset 1.87 dB 10 dB/div Ref 20.00 dBm	Mkr5 2.365 520 GHz -56.461 dBm	Autorune	1
	Log			
	0.0	01	Center Freq 2.352500000 GHz	
	-10.0	<u> </u>	2.352500000 GHz	
	-20.0	-26.65 dbm	Start Freq	
	-30.0	0.05 0.05	2.30000000 GHz	
	-40.0			
	-50.0	$\sqrt{5}$ $\sqrt{3}$ $\sqrt{2}$	Stop Freq	
	-60.0		2.40500000 GHz	
	Start 2.30000 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 2.40500 GHz #Sweep 100.0 ms (1001 pts)	CF Step 10.500000 MHz	
		NCTION FUNCTION WIDTH FUNCTION VALUE	<u>Auto</u> Man	
	1 N 1 f 2.402 165 GHz 6.648 dBm 2 N 1 f 2.400 000 GHz 57.849 dBm			
	3 N 1 f 2.390 000 GHz -57.811 dBm 4 N 1 f 2.310 000 GHz -58.559 dBm		Freq Offset 0 Hz	
	5 N 1 f 2.365 520 GHz -56.461 dBm	1	0112	
	7			
	8 9 10			
	11 <	× *		
	MSG	STATUS		
	3DH1_Ant1_Hig	gh_Hop_2480		
	Agilent Spectrum Analyzer - Swept SA			
	OR         RL         RF         50 Ω         AC         SENSE:INT           Center Freq 2.510000000 GHz         Inter Freq 2.510000000 GHz         Inter Freq 2.5100000000 GHz         Inter Freq 2.5100000000 GHz	ALIGNAUTO 10:37:02 PM Jul 25, 2020 #Avg Type: RMS TRACE 1 2 3 4 5 6 Avg Hold: 300/300 Type MWWWWW	Frequency	
	PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 300/300 TYPE MUMANANA DET P P P P P P		
	Ref Offset 1.92 dB	Mkr4 2.543 60 GHz	Auto Tune	
	Ref Offset 1.92 dB 10 dB/div Ref 20.00 dBm	-54.714 dBm		
	10.0		Center Freq	
	0.00 01		2.51000000 GHz	
	-10.0			1
	-200	-27.24 dBm	Start Freq	
	-40.0		2.470000000 GHz	
			Stop Freq	
	-6U.U	an a	2.55000000 GHz	
	-70.0			
	Start 2.47000 GHz	Stop 2.55000 GHz	CF Step	1
	#Res BW 100 kHz #VBW 300 kHz	#Sweep 100.0 ms (1001 pts)	8.000000 MHz <u>Auto</u> Man	
	1 N 1 f 2,470 80 GHz -7,239 dBm	FUNCTION WIDTH FUNCTION VALUE		
	3 N 1 f 2.500 00 GHz -57.538 dBm		Freq Offset	
	4 N 1 f 2.543 60 GHz -54.714 dBm		0 Hz	1
	5		N	
	5 6 7			
	9			
	9 6 7 8 9 9 10 11			
	9	STATUS		



#### 10.7 APPENDIX: CONDUCTED SPURIOUSEMISSION

#### **Test Result**

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1		2402	Reference	-5.89	-5.89		PASS
			30~1000	30~1000	-62.236	<=-25.888	PASS
			1000~26500	1000~26500	-47.216	<=-25.888	PASS
		2441	Reference	-6.39	-6.39		PASS
	Ant1		30~1000	30~1000	-66.657	<=-26.386	PASS
			1000~26500	1000~26500	-49.349	<=-26.386	PASS
		2480	Reference	-5.99	-5.99		PASS
			30~1000	30~1000	-66.856	<=-25.992	PASS
			1000~26500	1000~26500	-47.836	<=-25.992	PASS
2DH1		2402	Reference	-0.83	-0.83		PASS
			30~1000	30~1000	-66.541	<=-20.826	PASS
			1000~26500	1000~26500	-53.358	<=-20.826	PASS
		2441	Reference	-0.96	-0.96		PASS
	Ant1		30~1000	30~1000	-67.103	<=-20.964	PASS
			1000~26500	1000~26500	-53.69	<=-20.964	PASS
		2480	Reference	-0.47	-0.47		PASS
			30~1000	30~1000	-65.381	<=-20.472	PASS
			1000~26500	1000~26500	-51.445	<=-20.472	PASS
3DH1		2402	Reference	-0.77	-0.77		PASS
			30~1000	30~1000	-67.417	<=-20.768	PASS
			1000~26500	1000~26500	-48.577	<=-20.768	PASS
	Ant1	2441	Reference	-0.91	-0.91		PASS
			30~1000	30~1000	-65.414	<=-20.91	PASS
			1000~26500	1000~26500	-53.507	<=-20.91	PASS
		2480	Reference	-0.41	-0.41		PASS
			30~1000	30~1000	-64.946	<=-20.413	PASS
			1000~26500	1000~26500	-52.006	<=-20.413	PASS