3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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.

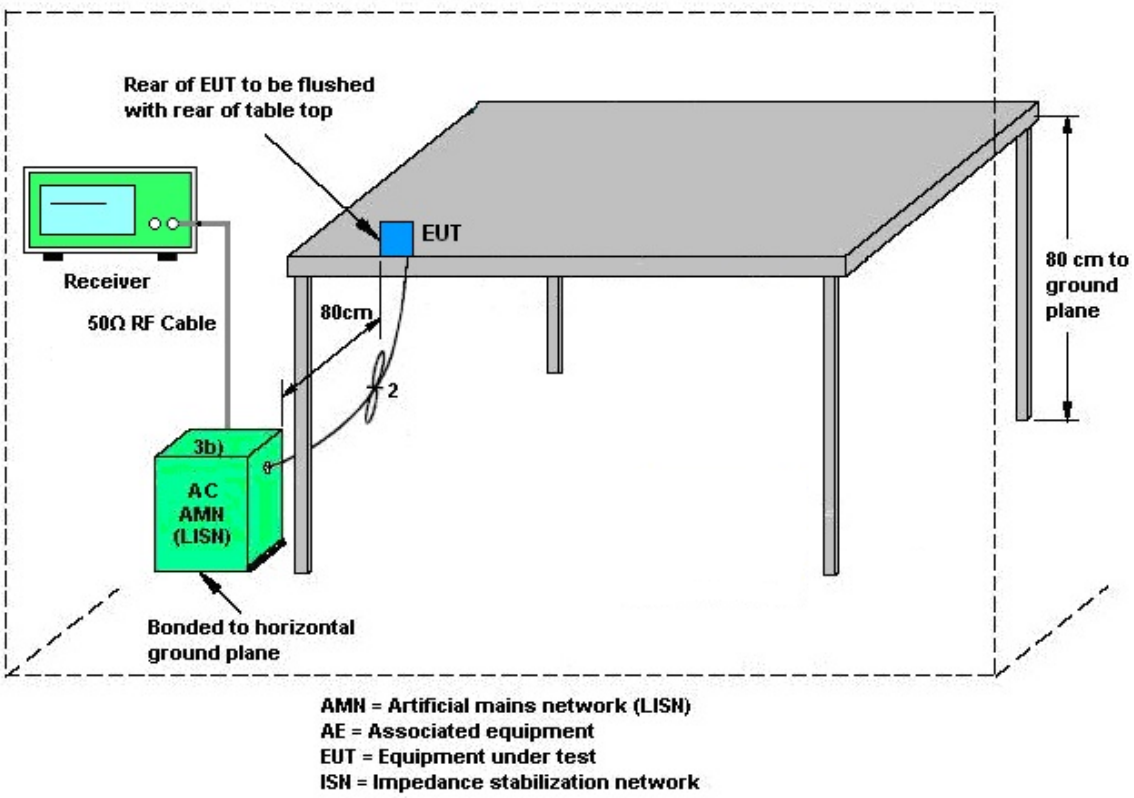
3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.9.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jul. 07, 2023~ Aug. 10, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Jul. 07, 2023~ Aug. 10, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Jul. 07, 2023~ Aug. 10, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Attenuator	TOJOIN	SMA(JK)	EMC01	2W/DC-18G	Jan. 10, 2023	Jul. 07, 2023~ Aug. 10, 2023	Jan. 09, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 13, 2022	Aug. 07, 2023	Oct. 12, 2023	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Mar. 24, 2023	Aug. 07, 2023	Mar. 23, 2024	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Aug. 07, 2023	Oct. 15, 2023	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Aug. 07, 2023	Apr. 08, 2024	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 06, 2023	Aug. 07, 2023	Apr. 05, 2024	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 08, 2023	Aug. 07, 2023	Jan. 07, 2024	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 06, 2023	Aug. 07, 2023	Jul. 05, 2024	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 05, 2023	Aug. 07, 2023	Jan. 04, 2024	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060839	1Ghz-18Ghz	Oct. 12, 2022	Aug. 07, 2023	Oct. 11, 2023	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz-18Ghz	Jan. 05, 2023	Aug. 07, 2023	Jan. 04, 2024	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 07, 2023	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 07, 2023	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 07, 2023	NCR	Radiation (03CH05-KS)
Attenuator	TOJOIN	SMA(JK)	EMC01	2W/DC-18G	Jan. 10, 2023	Aug. 07, 2023	Jan. 09, 2024	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Aug. 21, 2023	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Aug. 21, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Aug. 21, 2023	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Aug. 21, 2023	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±2.26
Occupied Channel Bandwidth	±0.1 %

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.28 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.88 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.26 dB

---------- THE END ----------

Appendix A. Conducted Test Results

Report Number : FR330311-01A

Bluetooth

Test Engineer:	Kib Shi	Temperature:	20~26	°C
Test Date:	2023/7/7~2023/8/10	Relative Humidity:	40~51	%

Power setting	
CH 00	**6,0,1**
CH 39	**6,0,1**
CH 78	**6,0,1**

TEST RESULTS DATA
20dB and 99% Occupied Bandwidth and Hopping Channel Separation

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.837	0.755	998.600	0.5577	Pass
DH	1Mbps	1	39	2441	0.810	0.753	998.600	0.5403	Pass
DH	1Mbps	1	78	2480	0.810	0.753	1159.200	0.5403	Pass
2DH	2Mbps	1	0	2402	1.207	1.137	1002.900	0.8046	Pass
2DH	2Mbps	1	39	2441	1.207	1.135	1002.900	0.8046	Pass
2DH	2Mbps	1	78	2480	1.207	1.132	998.600	0.8046	Pass
3DH	3Mbps	1	0	2402	1.211	1.126	998.600	0.8075	Pass
3DH	3Mbps	1	39	2441	1.211	1.129	998.600	0.8075	Pass
3DH	3Mbps	1	78	2480	1.211	1.126	998.600	0.8075	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.8986	0.31	0.4	Pass
AFH	20	53.33	2.8986	0.15	0.4	Pass

TEST RESULTS DATA
Peak Power Table

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	**11.77**	20.97	Pass
	39	1	11.51	20.97	Pass
	78	1	11.62	20.97	Pass

2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	**13.76**	20.97	Pass
	39	1	13.71	20.97	Pass
	78	1	**13.76**	20.97	Pass

3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	14.29	20.97	Pass
	39	1	14.35	20.97	Pass
	78	1	**14.44**	20.97	Pass

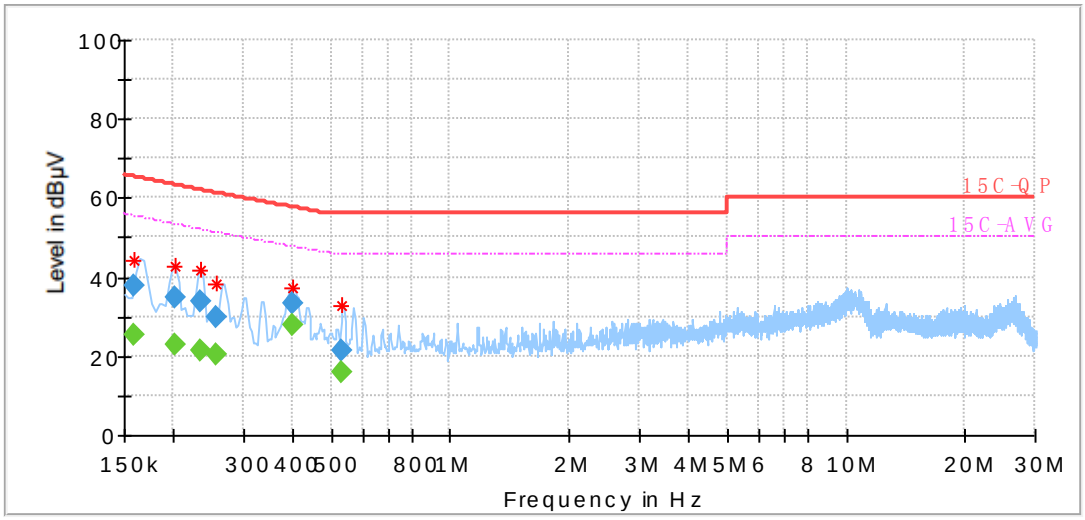
TEST RESULTS DATA
Number of Hopping Frequency

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	**Temperature :**	24.2~25.6℃
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

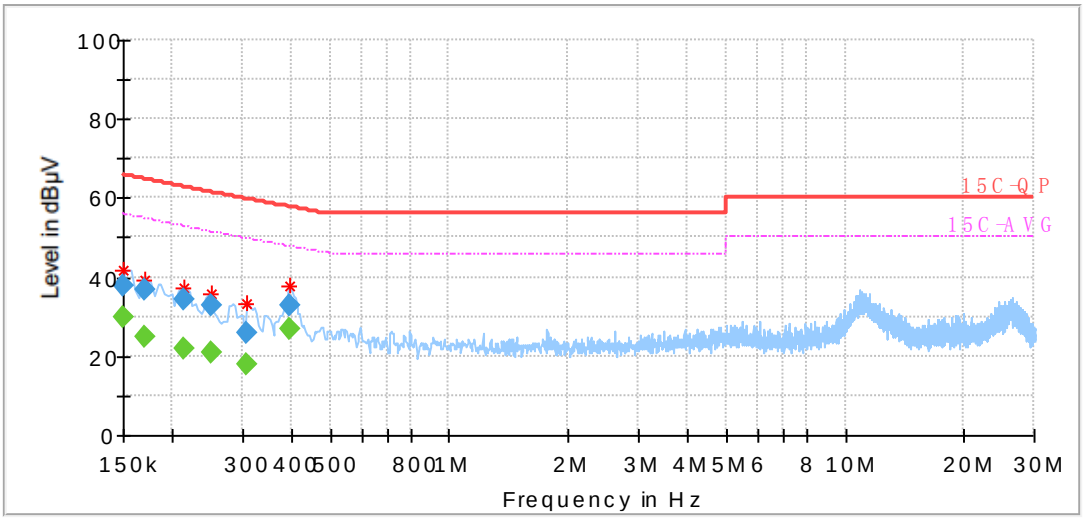
Full Spectrum



Frequency (MHz)	Quasi Peak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159656	---	25.56	55.43	29.87	L1	OFF	20.1
0.159656	37.63	---	65.44	27.81	L1	OFF	20.1
0.202238	---	22.86	53.33	30.48	L1	OFF	20.0
0.202238	34.76	---	63.36	28.60	L1	OFF	20.0
0.234338	---	21.25	52.06	30.81	L1	OFF	19.9
0.234338	33.71	---	62.10	28.39	L1	OFF	19.9
0.256669	---	20.21	51.30	31.08	L1	OFF	19.9
0.256669	29.98	---	61.34	31.35	L1	OFF	19.9
0.397744	---	27.95	47.75	19.80	L1	OFF	19.9
0.397744	33.34	---	57.78	24.44	L1	OFF	19.9
0.531300	---	15.87	46.00	30.13	L1	OFF	19.8
0.531300	21.28	---	56.00	34.72	L1	OFF	19.8

Test Engineer :	Amos Zhang	**Temperature :**	24.2~25.6℃
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Frequency (MHz)	Quasi Peak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	29.70	56.00	26.30	N	OFF	20.2
0.150000	37.85	---	66.00	28.15	N	OFF	20.2
0.170138	---	25.04	54.86	29.82	N	OFF	20.2
0.170138	36.73	---	64.88	28.14	N	OFF	20.2
0.214200	---	22.07	52.83	30.77	N	OFF	20.2
0.214200	34.10	---	62.87	28.77	N	OFF	20.2
0.251512	---	20.92	51.47	30.55	N	OFF	20.1
0.251512	33.04	---	61.51	28.47	N	OFF	20.1
0.305944	---	17.90	49.84	31.95	N	OFF	20.0
0.305944	26.11	---	59.88	33.77	N	OFF	20.0
0.394012	---	26.65	47.83	21.18	N	OFF	19.9
0.394012	32.68	---	57.85	25.17	N	OFF	19.9

Appendix C. Radiated Spurious Emission

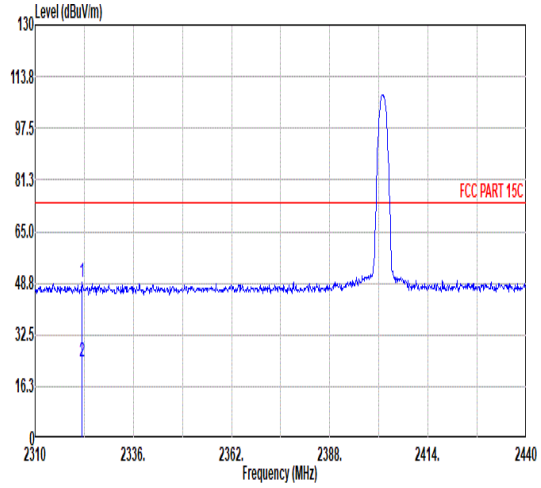
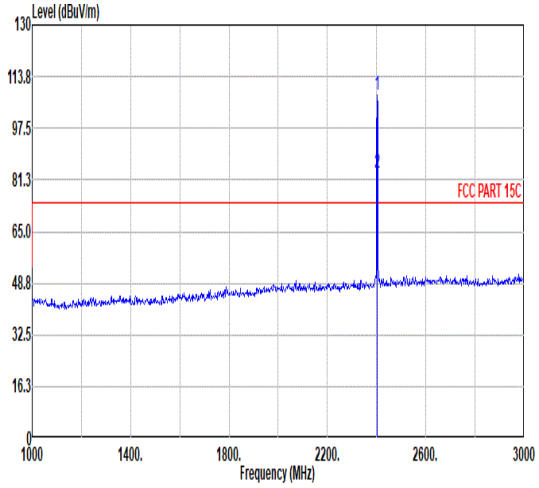
Test Engineer :	Carry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 ℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	SISO	Bluetooth EDR_8-DPSK	00	2402	3Mbps	-	-
Mode 2	2400-2483.5	SISO	Bluetooth EDR_8-DPSK	39	2441	3Mbps	-	-
Mode 3	2400-2483.5	SISO	Bluetooth EDR_8-DPSK	78	2480	3Mbps	-	-
Mode 4	2400-2483.5	SISO	Bluetooth EDR_8-DPSK	78	2480	3Mbps		LF

Summary of each worse mode

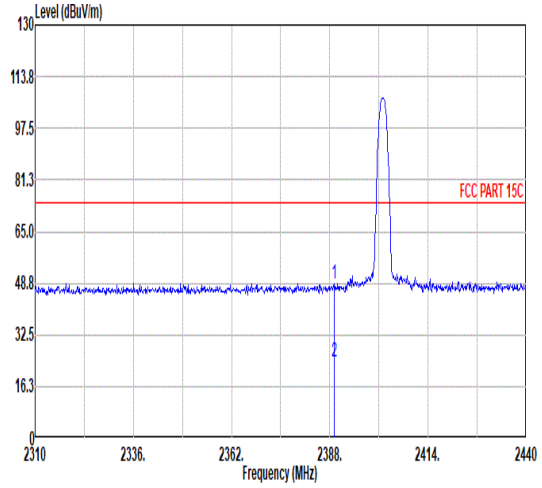
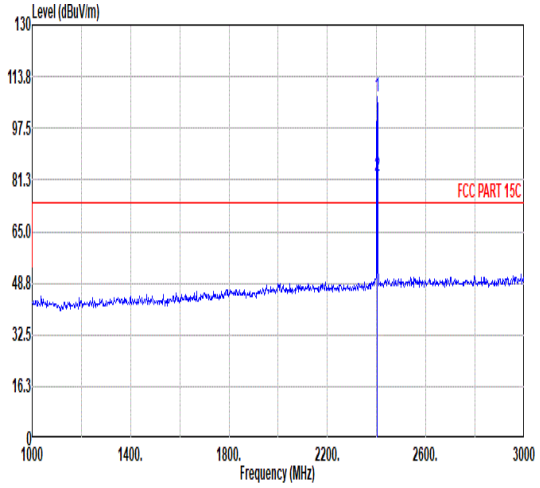
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth EDR_8-DPSK	00	2322.35	48.97	74.00	-25.03	H	PEAK	Pass	Band Edge
	Bluetooth EDR_8-DPSK	00	4804.00	40.34	74.00	-33.66	V	PEAK	Pass	Harmonic
2	Bluetooth EDR_8-DPSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth EDR_8-DPSK	39	7323.00	41.07	74.00	-32.93	V	PEAK	Pass	Harmonic
3	Bluetooth EDR_8-DPSK	78	2484.25	51.76	74.00	-22.24	H	PEAK	Pass	Band Edge
	Bluetooth EDR_8-DPSK	78	7440.00	43.17	74.00	-30.83	V	PEAK	Pass	Harmonic
4	Bluetooth EDR_8-DPSK	78	363.68	38.84	46.00	-7.16	H	PEAK	Pass	LF

Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth EDR_8-DPSK _CH00_2402MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2322.35	48.97	74.00	-25.03	41.00	31.87	7.00	36.90	6.00	114	44	PEAK
2	2322.35	24.18	54.00	-29.82	16.21	31.87	7.00	36.90	6.00	114	44	AVERAGE

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2402.00	108.05	------	------	99.74	32.11	7.12	36.92	6.00	114	44	PEAK
2	2402.00	83.26	------	------	74.95	32.11	7.12	36.92	6.00	114	44	AVERAGE

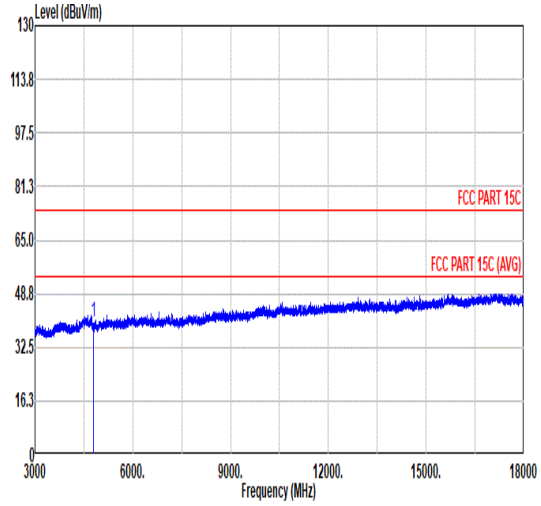
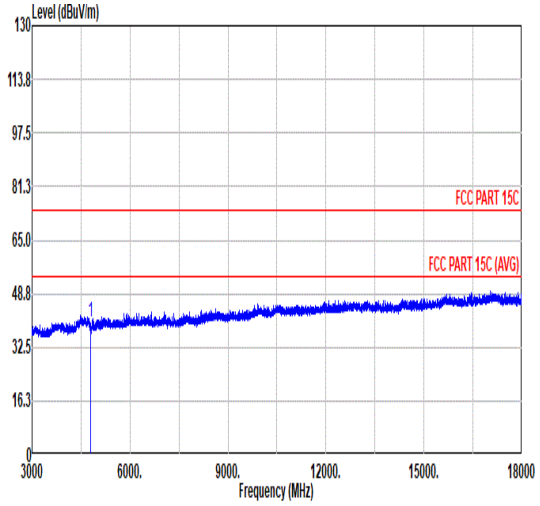
Mode	1
	Band Edge
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH00_2402MHz
ANT	SISO

Pol.	Vertical	Fundamental
Peak		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2389.17	48.62	74.00	-25.38	40.37	32.07	7.10	36.92	6.00	100	16	PEAK
2	2389.17	23.83	54.00	-30.17	15.58	32.07	7.10	36.92	6.00	100	16	AVERAGE

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2402.00	107.29	------	------	98.98	32.11	7.12	36.92	6.00	100	16	PEAK
2	2402.00	82.50	------	------	74.19	32.11	7.12	36.92	6.00	100	16	AVERAGE

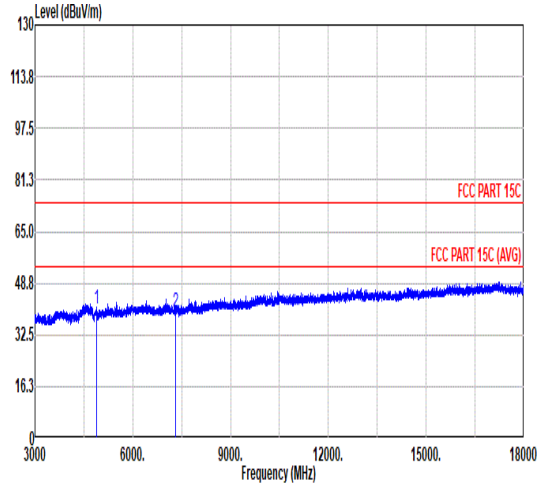
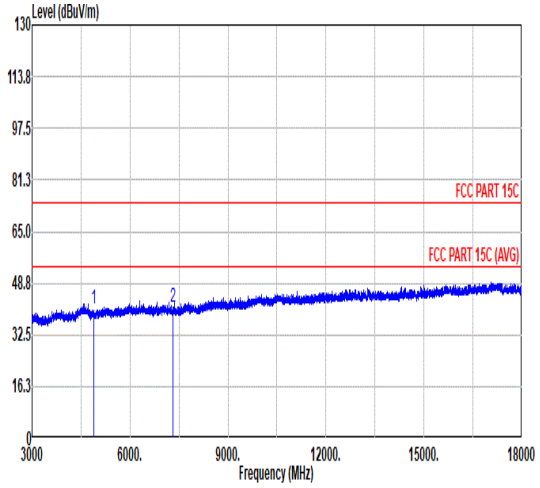
Mode	1
	Harmonic
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH00_2402MHz
ANT	SISO

Pol.	Horizontal	Vertical
Peak Avg		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4804.00	40.27	74.00	-33.73	61.42	33.90	10.20	65.25	0.00	---	---	PEAK

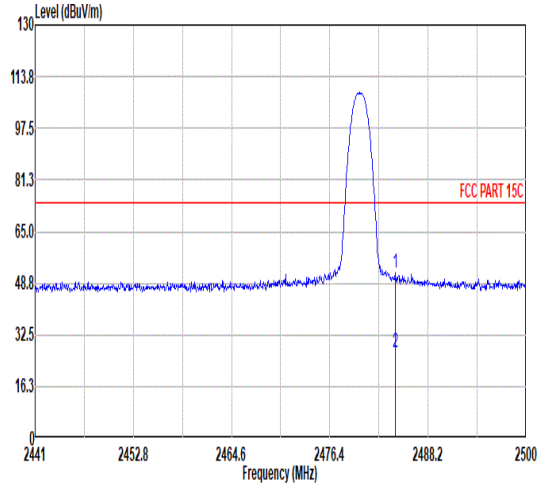
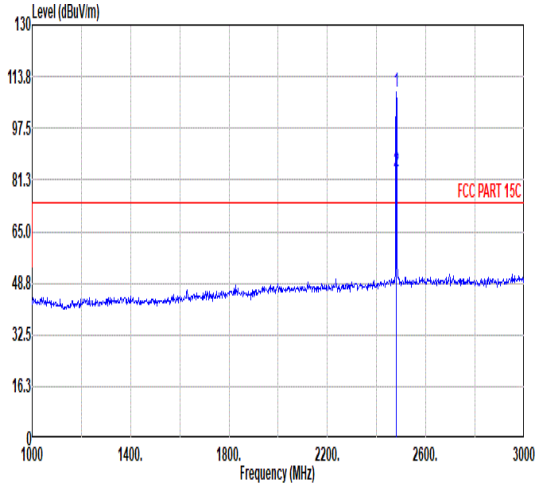
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4804.00	40.34	74.00	-33.66	61.49	33.90	10.20	65.25	0.00	---	---	PEAK

Mode	2
	Harmonic
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH39_2441MHz
ANT	SISO

Pol.	Horizontal	Vertical
Peak Avg		

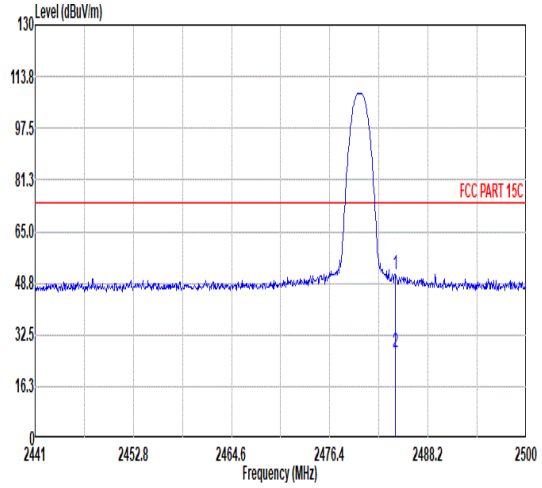
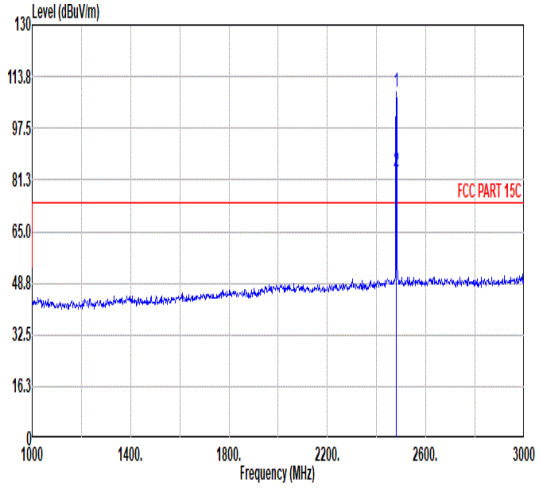
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4882.00	40.65	74.00	-33.35	61.73	33.90	10.30	65.28	0.00	---	---	PEAK
2	7323.00	39.89	74.00	-34.11	57.95	35.70	12.72	66.48	0.00	---	---	PEAK

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4882.00	40.77	74.00	-33.23	61.85	33.90	10.30	65.28	0.00	---	---	PEAK
2	7323.00	41.07	74.00	-32.93	59.13	35.70	12.72	66.48	0.00	---	---	PEAK

Mode	3	
	Band Edge	
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH78_2480MHz	
ANT	SISO	
Pol.	Horizontal	Fundamental
Peak		

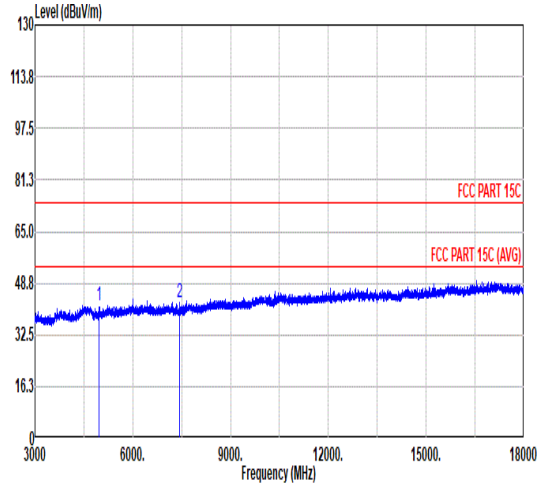
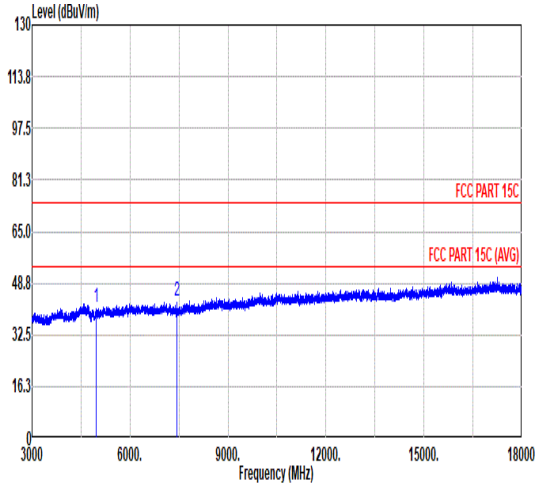
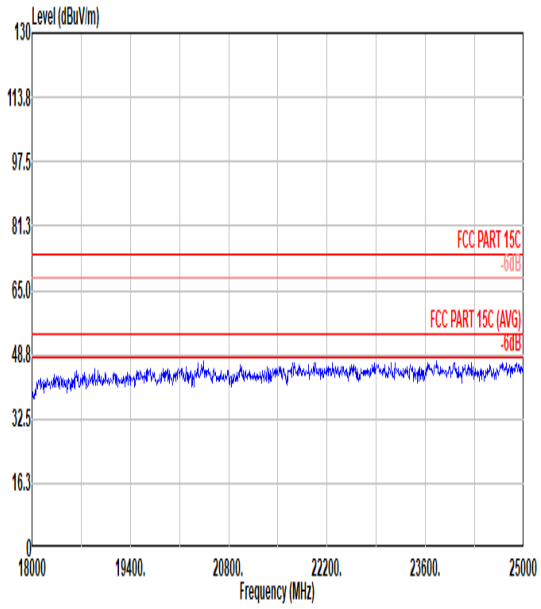
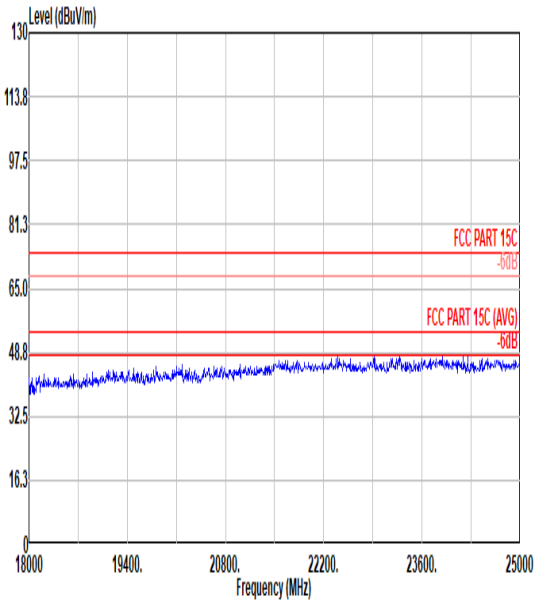
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2484.25	51.76	74.00	-22.24	42.94	32.52	7.26	36.96	6.00	329	28	PEAK
2	2484.25	26.97	54.00	-27.03	18.15	32.52	7.26	36.96	6.00	329	28	AVERAGE

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	108.80	------	------	100.01	32.50	7.25	36.96	6.00	329	28	PEAK
2	2480.00	84.01	------	------	75.22	32.50	7.25	36.96	6.00	329	28	AVERAGE

Mode	3	
	Band Edge	
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH78_2480MHz	
ANT	SISO	
Pol.	Vertical	Fundamental
Peak		

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2484.25	51.61	74.00	-22.39	42.79	32.52	7.26	36.96	6.00	102	14	PEAK
2	2484.25	26.82	54.00	-27.18	18.00	32.52	7.26	36.96	6.00	102	14	AVERAGE

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	107.50	------	------	100.01	32.50	7.25	36.96	6.00	102	14	PEAK
2	2480.00	83.25	------	------	75.22	32.50	7.25	36.96	6.00	102	14	AVERAGE

Mode	3	
	Harmonic	
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH78_2480MHz	
ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 41.78 74.00 -32.22 62.67 34.02 10.40 65.31 0.00 --- --- PEAK 2 7440.00 42.51 74.00 -31.49 60.80 35.74 12.78 66.81 0.00 --- --- PEAK	 Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 40.97 74.00 -33.03 61.86 34.02 10.40 65.31 0.00 --- --- PEAK 2 7440.00 43.17 74.00 -30.83 61.46 35.74 12.78 66.81 0.00 --- --- PEAK
Peak Avg		

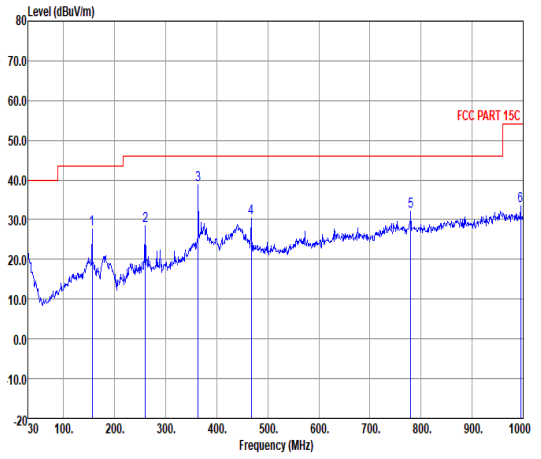
Note: Only the worst case has assessed 18G ~25GHz to test.

Mode	4
	LF
	2400-2483.5_ Bluetooth EDR_8-DPSK _CH78_2480MHz
ANT	SISO

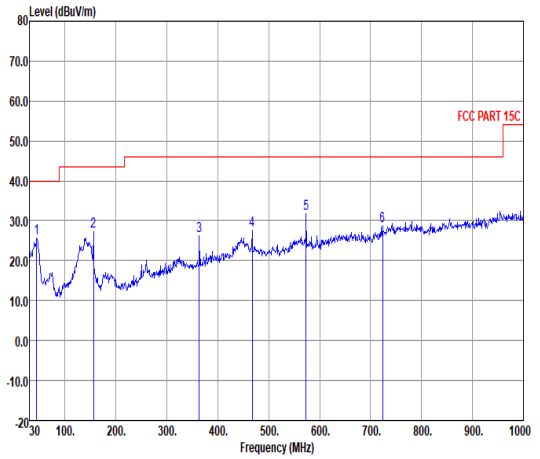
Pol.	Horizontal	Vertical

Peak

QP



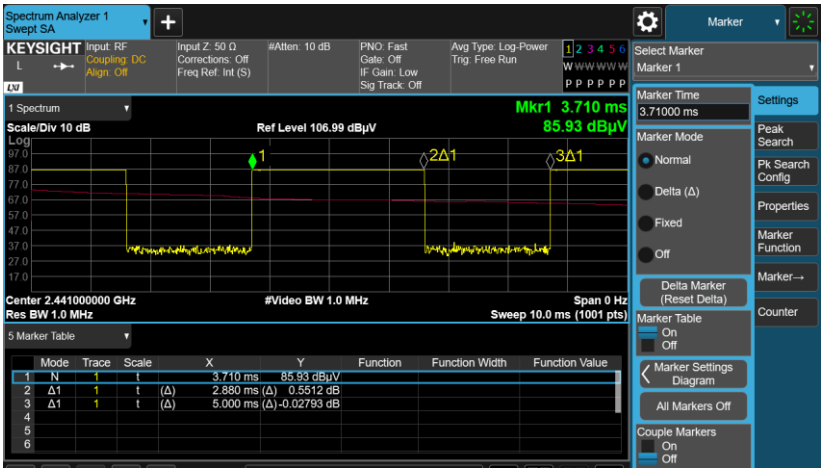
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	156.10	27.54	-15.96	43.50	42.17	16.30	1.89	32.82	---	---	Peak	HORIZONT
2	259.89	28.43	-17.57	46.00	40.15	18.60	2.46	32.78	---	---	Peak	HORIZONT
3	363.68	38.84	-7.16	46.00	48.07	20.77	2.90	32.90	---	---	Peak	HORIZONT
4	467.47	30.51	-15.49	46.00	37.32	22.90	3.30	33.01	---	---	Peak	HORIZONT
5	779.81	32.22	-13.78	46.00	34.62	26.09	4.27	32.76	---	---	Peak	HORIZONT
6	995.15	33.35	-20.65	54.00	32.14	27.36	4.83	30.98	---	---	Peak	HORIZONT



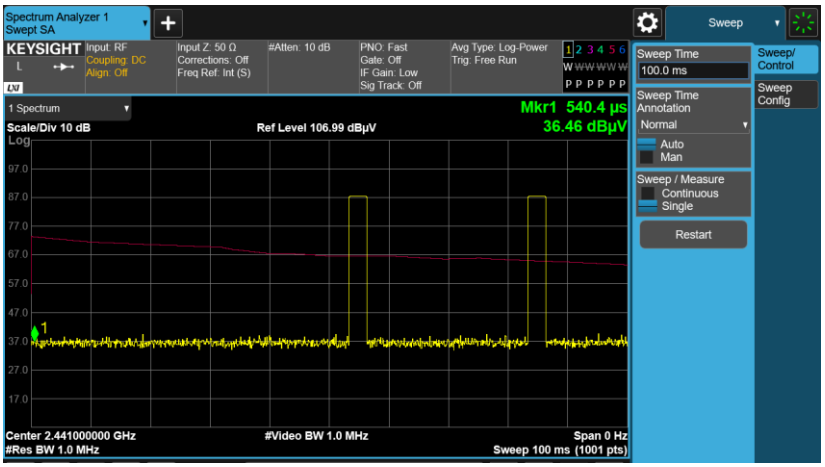
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	44.55	25.71	-14.29	40.00	41.26	16.47	0.96	32.98	---	---	Peak	VERTICAL
2	156.10	27.23	-16.27	43.50	41.86	16.30	1.89	32.82	---	---	Peak	VERTICAL
3	363.68	26.11	-19.89	46.00	35.34	20.77	2.90	32.90	---	---	Peak	VERTICAL
4	467.47	27.72	-18.28	46.00	34.53	22.90	3.30	33.01	---	---	Peak	VERTICAL
5	573.20	31.87	-14.13	46.00	36.29	25.03	3.65	33.10	---	---	Peak	VERTICAL
6	723.55	28.86	-17.14	46.00	32.17	25.51	4.12	32.94	---	---	Peak	VERTICAL

Appendix D. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.88 / 100 = 5.76 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.79 dB
3. 3DH5 has the highest duty cycle worst case and is reported.