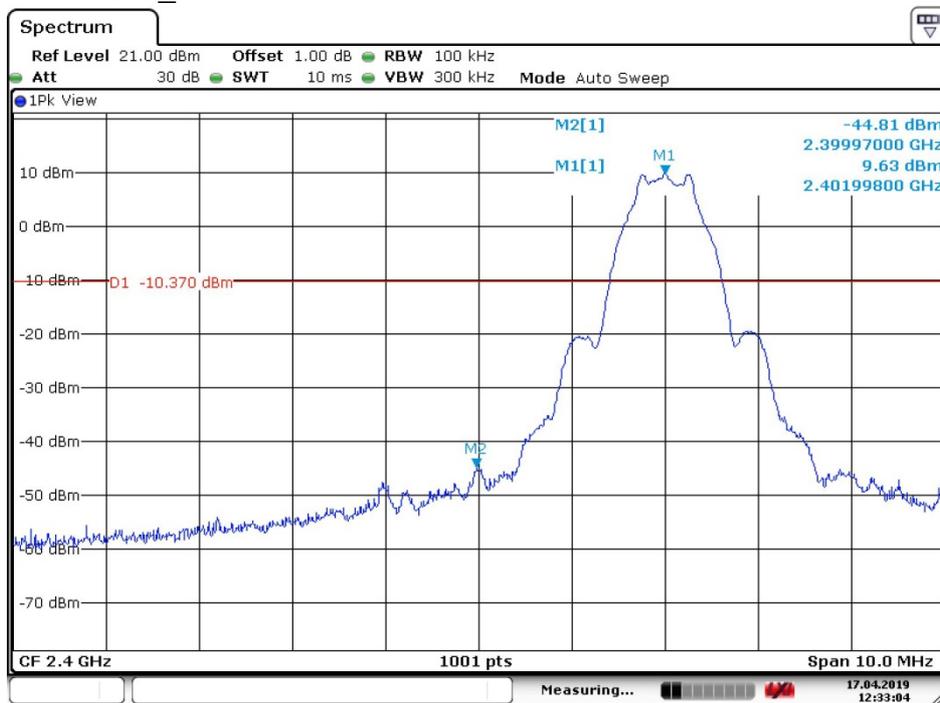


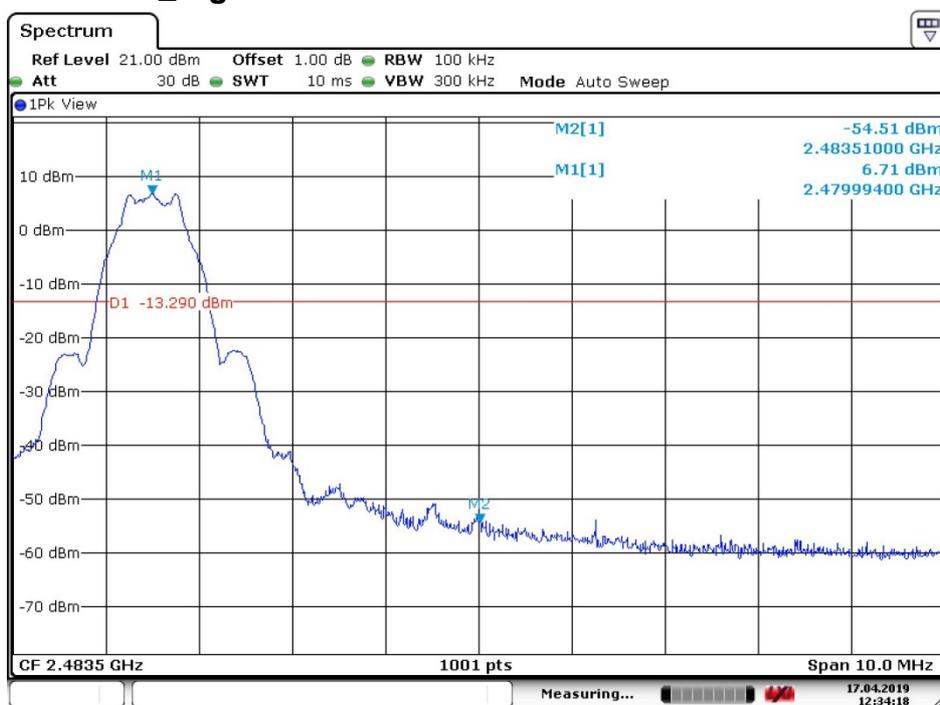
4.7.1 Test plots

4.7.1.1 GFSK_Lowest Channel



Date: 17.APR.2019 12:33:04

4.7.1.2 GFSK_Highest Channel



Date: 17.APR.2019 12:34:19



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4.8 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

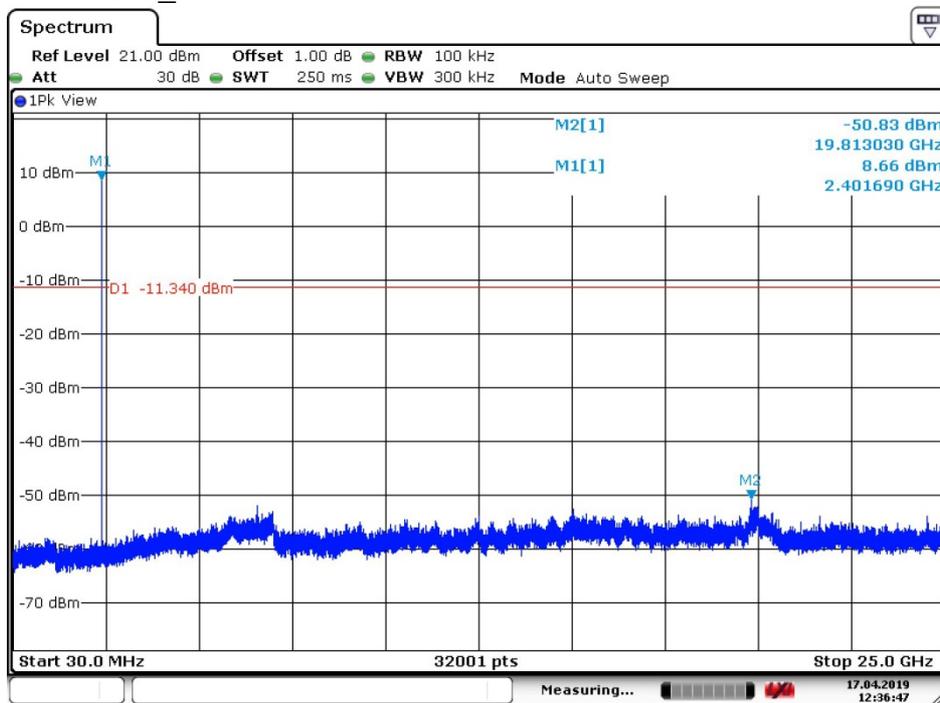


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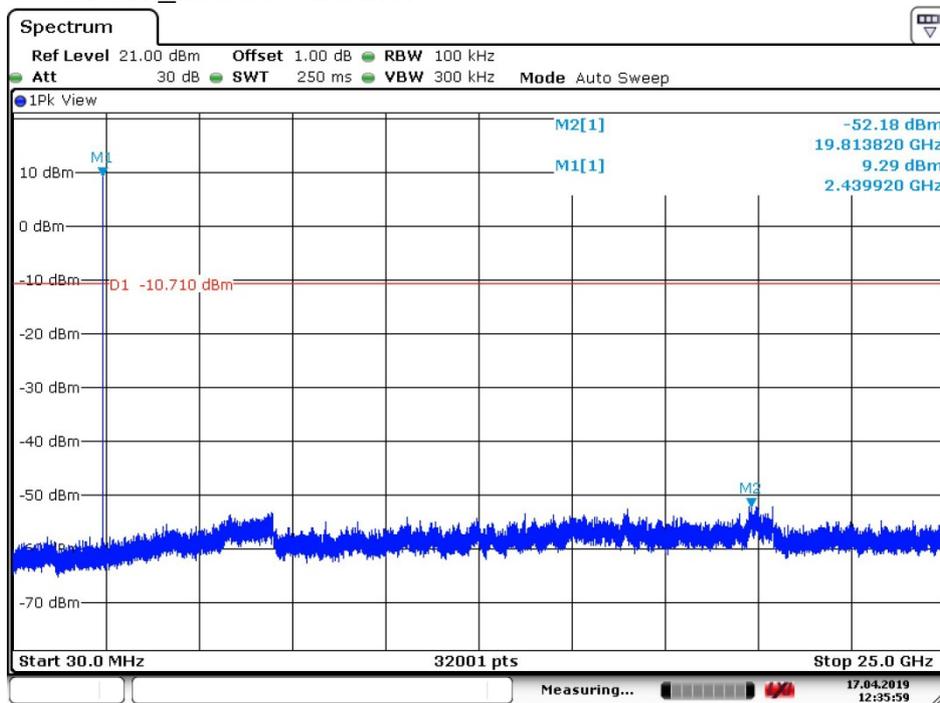
4.8.1 Test plots:

4.8.1.1 GFSK_Lowest Channel



Date: 17. APR. 2019 12:36:48

4.8.1.2 GFSK_Middle Channel

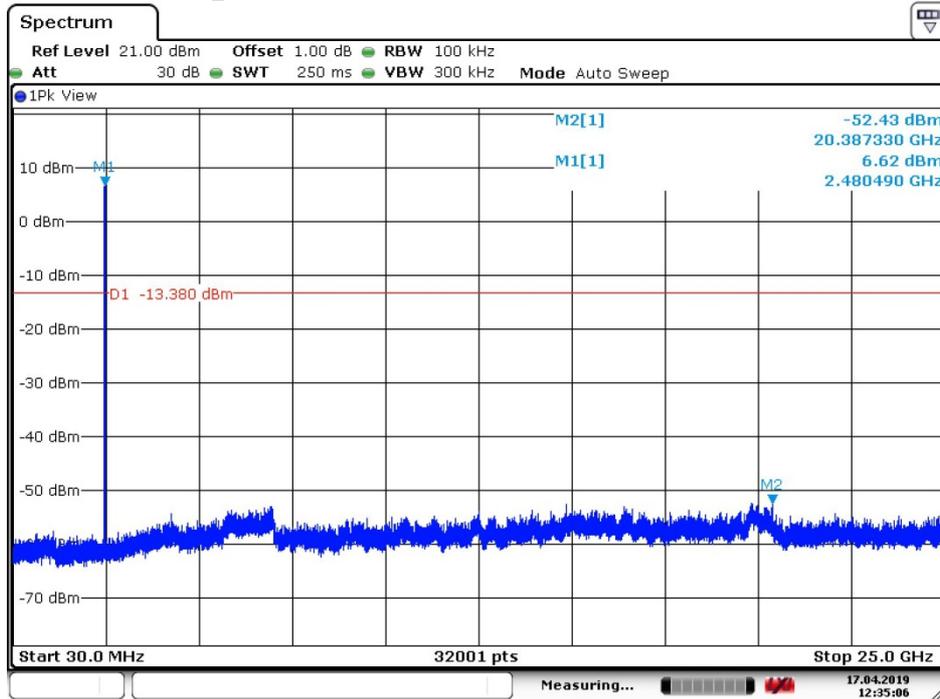


Date: 17. APR. 2019 12:35:59



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4.8.1.3 GFSK_Highest Channel



Date: 17. APR. 2019 12:35:06

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.9 Radiated Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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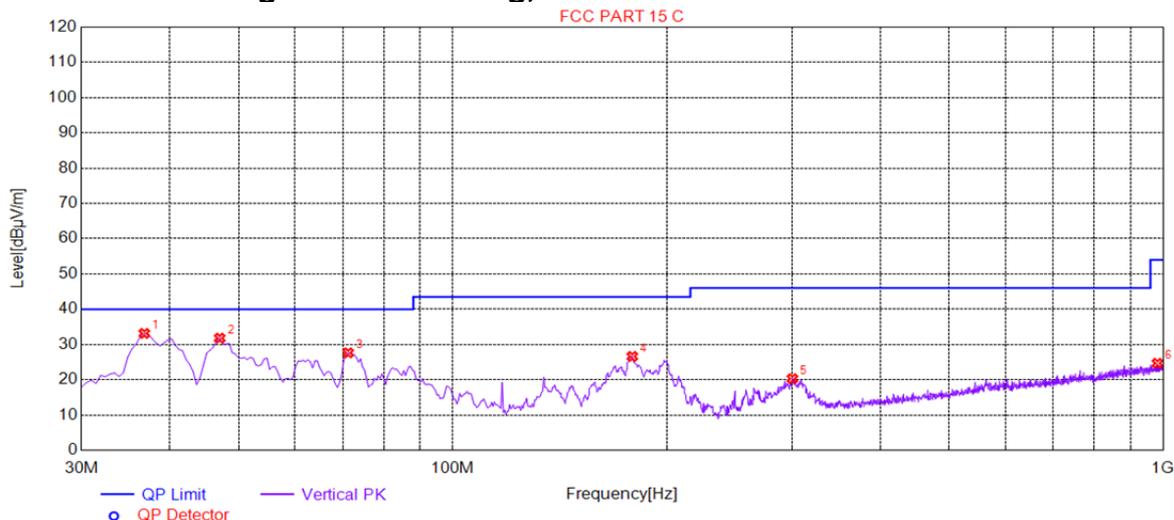
	<p>Bandwidth with Maximum Hold Mode.</p> <p>g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the highest channel (2480MHz)</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



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4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



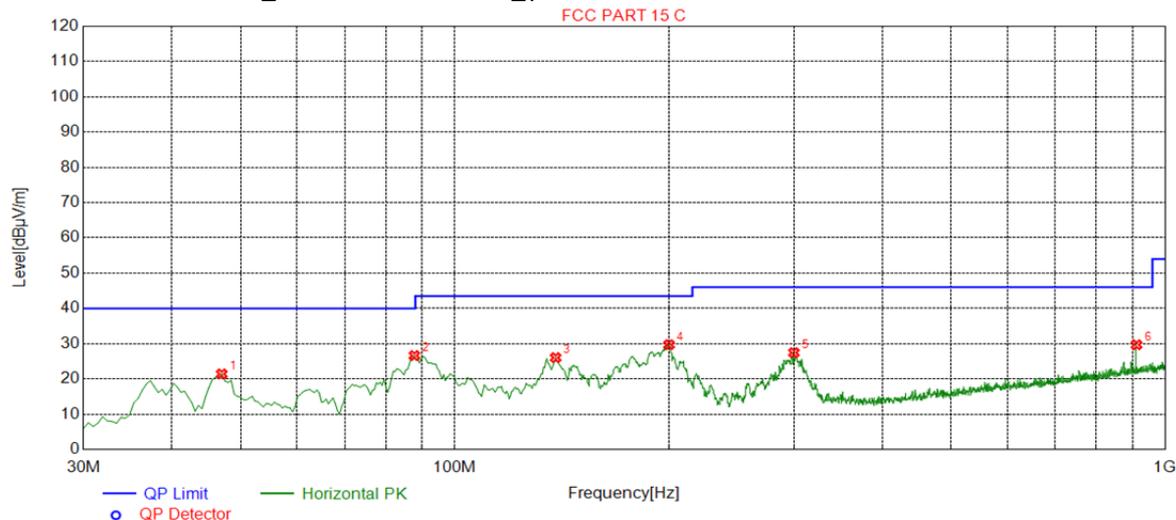
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	33.13	-32.19	40.00	6.87	100	0	Vertical
2	46.9835	31.79	-30.20	40.00	8.21	100	138	Vertical
3	71.2456	27.63	-34.37	40.00	12.37	100	73	Vertical
4	178.969	26.61	-32.98	43.50	16.89	100	0	Vertical
5	300.765	20.30	-27.84	46.00	25.70	100	79	Vertical
6	982.046	24.68	-14.09	54.00	29.32	200	254	Vertical



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4.9.1.2 Charge + Transmitting, Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.9835	21.41	-30.20	40.00	18.59	100	344	Horizontal
2	87.7439	26.61	-33.97	40.00	13.39	200	190	Horizontal
3	138.694	26.03	-35.15	43.50	17.47	200	234	Horizontal
4	200.320	29.71	-30.80	43.50	13.79	200	231	Horizontal
5	300.280	27.43	-27.85	46.00	18.57	100	73	Horizontal
6	911.685	29.69	-15.05	46.00	16.31	200	278	Horizontal

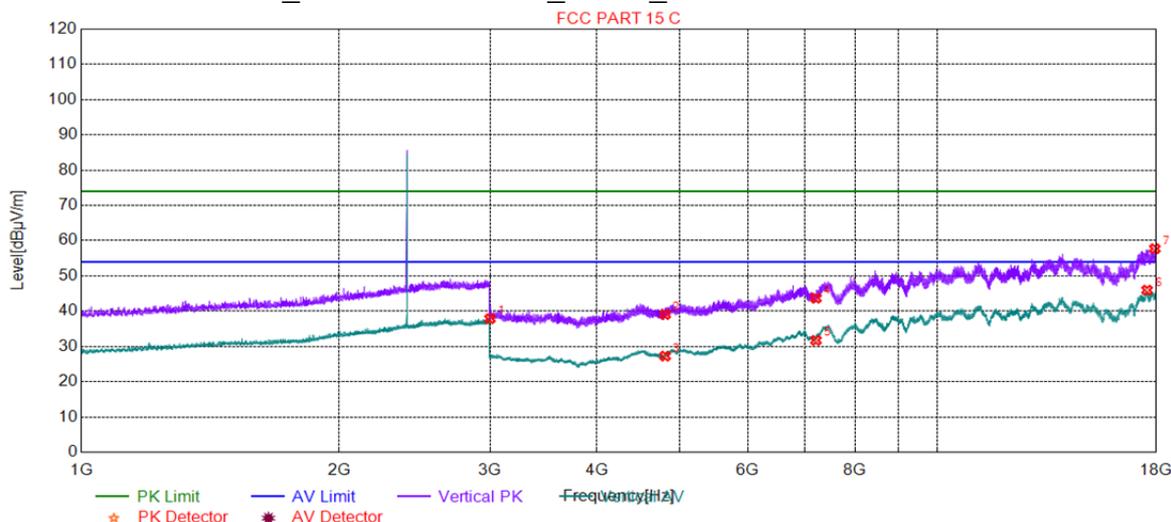


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4.9.2 Transmitter Emission above 1GHz

4.9.2.1 GFSK _Lowest Channel_ Peak _Vertical



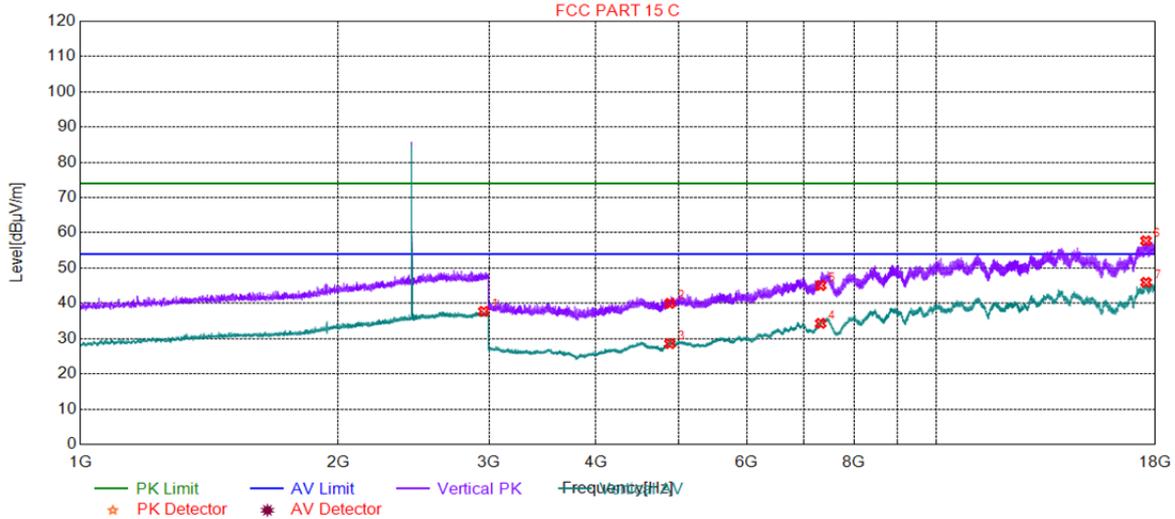
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3000.00	37.87	2.33	54.00	16.13	150	17	Vertical
2	4804.00	39.07	-20.38	74.00	34.93	150	344	Vertical
3	4804.00	27.27	-20.38	54.00	26.73	150	44	Vertical
4	7206.00	43.69	-12.76	74.00	30.31	150	140	Vertical
5	7206.00	31.73	-12.76	54.00	22.27	150	344	Vertical
6	17552.9	45.97	1.03	54.00	8.03	150	355	Vertical
7	17924.4	57.72	-0.92	74.00	16.28	150	185	Vertical



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4.9.2.2 GFSK _Middle Channel_ Peak _Vertical



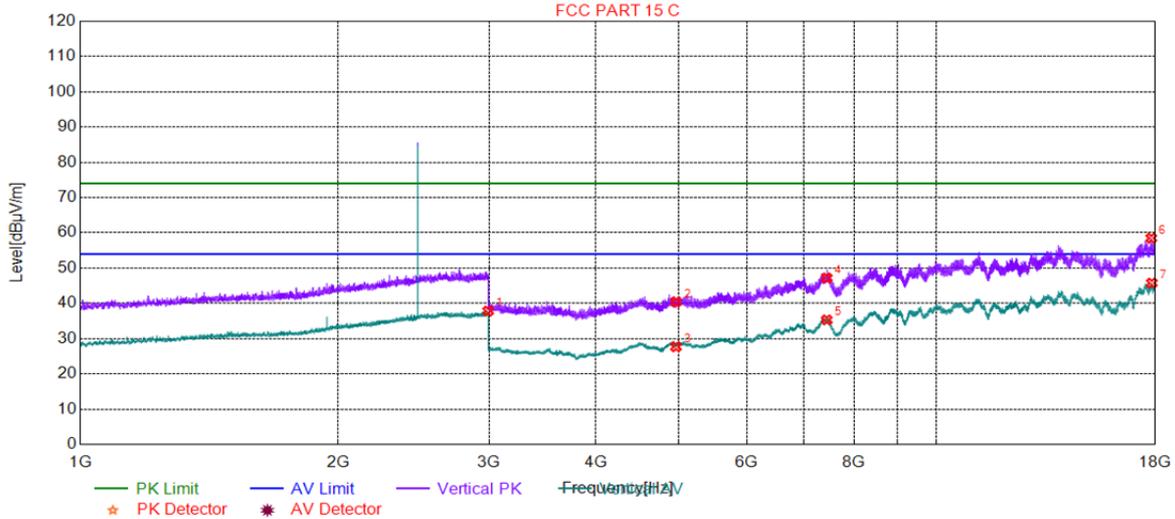
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.48	37.74	2.30	54.00	16.26	150	118	Vertical
2	4880.00	39.99	-19.29	74.00	34.01	150	248	Vertical
3	4880.00	28.57	-19.29	54.00	25.43	150	320	Vertical
4	7320.00	34.33	-11.41	54.00	19.67	150	19	Vertical
5	7320.00	45.08	-11.41	74.00	28.92	150	163	Vertical
6	17548.4	57.74	0.97	74.00	16.26	150	58	Vertical
7	17554.9	45.95	1.05	54.00	8.05	150	186	Vertical



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4.9.2.3 GFSK _High Channel_ Peak _Vertical



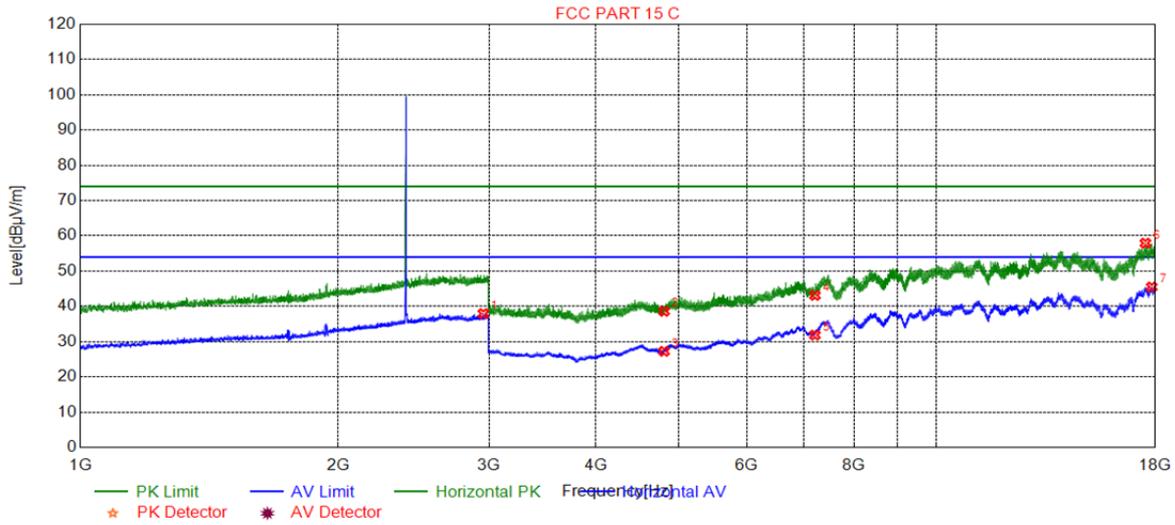
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2993.49	37.83	2.33	54.00	16.17	150	359	Vertical
2	4960.00	40.42	-18.67	74.00	33.58	150	213	Vertical
3	4960.00	27.69	-18.67	54.00	26.31	150	344	Vertical
4	7440.00	47.21	-10.72	74.00	26.79	150	29	Vertical
5	7440.00	35.31	-10.72	54.00	18.69	150	140	Vertical
6	17800.9	58.50	-0.77	74.00	15.50	150	354	Vertical
7	17826.4	45.77	-0.86	54.00	8.23	150	259	Vertical



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4.9.2.4 GFSK _Lowest Channel_ Peak_ Horizontal



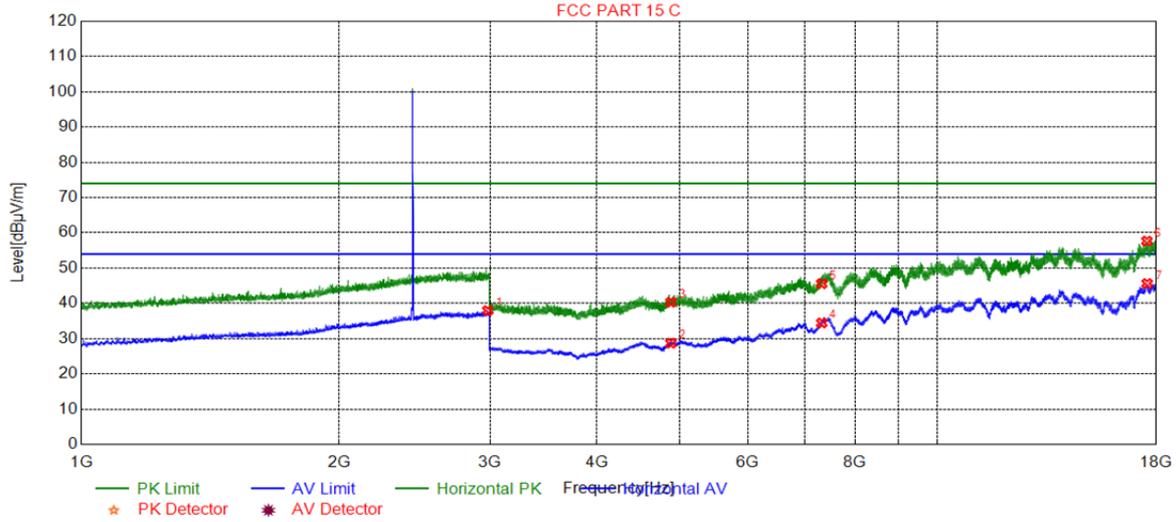
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.98	37.96	2.30	54.00	16.04	150	205	Horizontal
2	4804.00	38.60	-20.38	74.00	35.40	150	19	Horizontal
3	4804.00	27.25	-20.38	54.00	26.75	150	272	Horizontal
4	7206.00	43.11	-12.76	74.00	30.89	150	0	Horizontal
5	7206.00	31.85	-12.76	54.00	22.15	150	332	Horizontal
6	17523.4	57.94	0.65	74.00	16.06	150	312	Horizontal
7	17823.4	45.50	-0.85	54.00	8.50	150	164	Horizontal



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4.9.2.5 GFSK _Middle Channel_ Peak _Horizontal



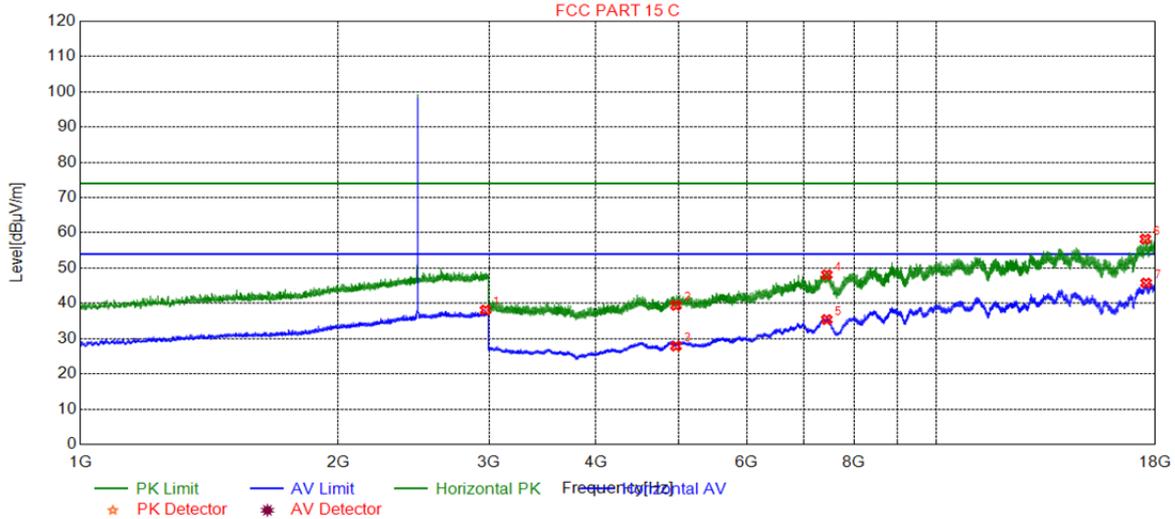
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.49	37.96	2.32	54.00	16.04	150	343	Horizontal
2	4880.00	28.71	-19.29	54.00	25.29	150	248	Horizontal
3	4880.00	40.32	-19.29	74.00	33.68	150	211	Horizontal
4	7320.00	34.46	-11.41	54.00	19.54	150	103	Horizontal
5	7320.00	45.59	-11.41	74.00	28.41	150	248	Horizontal
6	17546.4	57.67	0.94	74.00	16.33	150	207	Horizontal
7	17557.4	45.62	1.09	54.00	8.38	150	100	Horizontal



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4.9.2.6 GFSK _High Channel_ Peak _Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.49	38.12	2.31	54.00	15.88	150	175	Horizontal
2	4960.00	39.44	-18.67	74.00	34.56	150	128	Horizontal
3	4960.00	27.89	-18.67	54.00	26.11	150	200	Horizontal
4	7440.00	48.12	-10.72	74.00	25.88	150	212	Horizontal
5	7440.00	35.41	-10.72	54.00	18.59	150	104	Horizontal
6	17519.9	58.24	0.61	74.00	15.76	150	314	Horizontal
7	17554.4	45.77	1.05	54.00	8.23	150	85	Horizontal

Remark:

- 1) 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
- 2) Scan from 9kHz to 25GHz, the disturbance between 9kHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, 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. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz		54.0	Average Value
		74.0	Peak Value
Test Setup:			

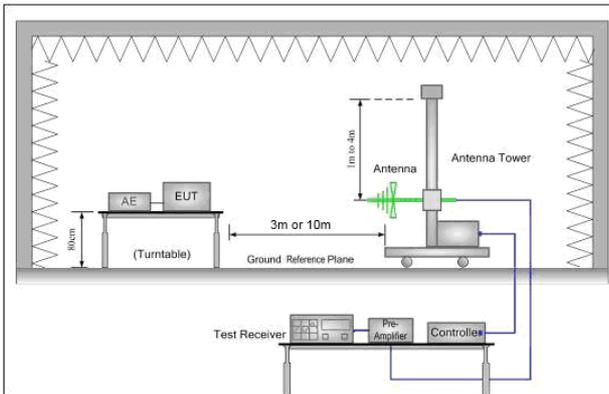


Figure 1. 30MHz to 1GHz

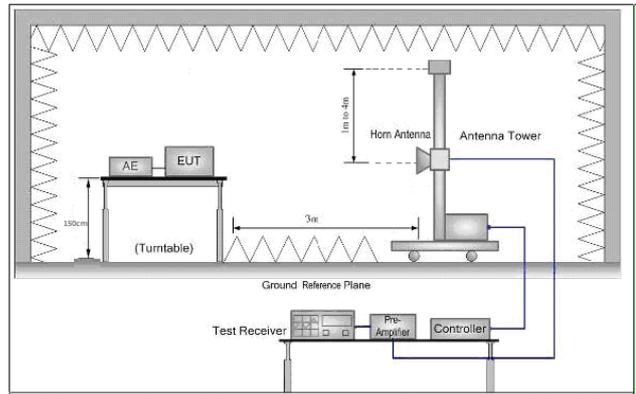


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> 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 semi-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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Test the EUT in the lowest channel, the Highest channel
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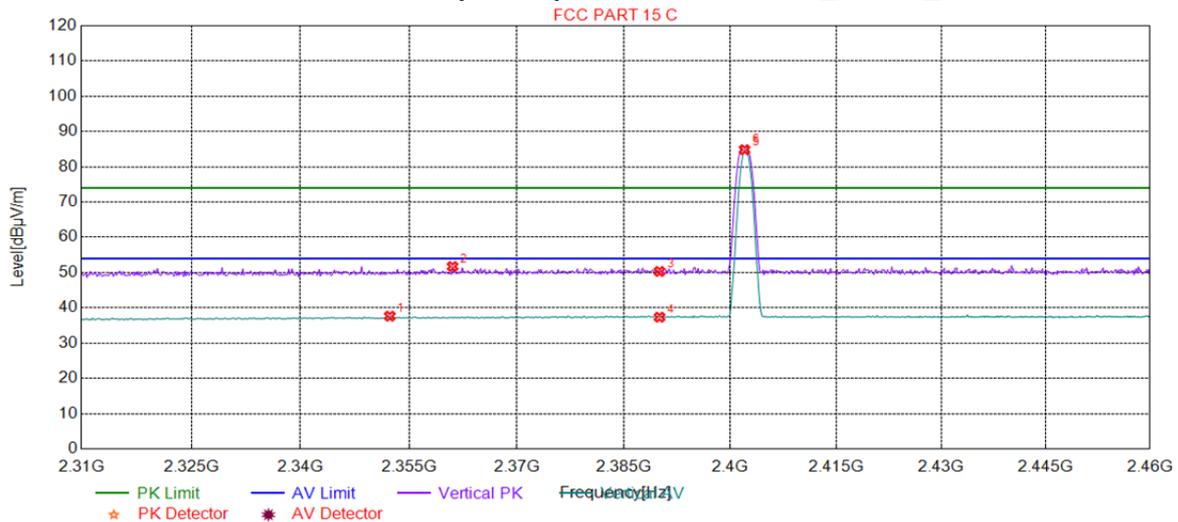
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	<p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

4.10.1 Test plots

4.10.1.1 Worst Case Mode(GFSK) Lowest Channel_ Peak_ Vertical



Suspected List

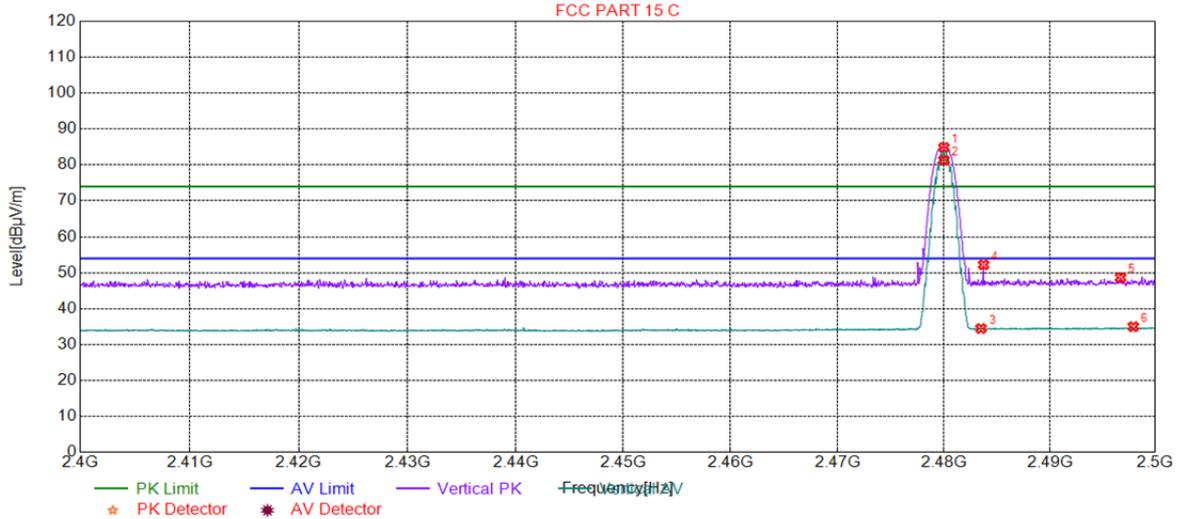
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2352.34	37.64	1.08	54.00	16.36	150	339	Vertical
2	2361.05	51.72	1.12	74.00	22.28	150	133	Vertical
3	2390.00	50.33	1.25	74.00	23.67	150	88	Vertical
4	2390.00	37.35	1.25	54.00	16.65	150	145	Vertical
5	2402.00	84.85	1.30	54.00	-30.85	150	169	Vertical
6	2402.00	85.55	1.30	74.00	-11.55	150	169	Vertical



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4.10.1.2 Worst Case Mode(GFSK) Highest Channel_ Peak_ Vertical



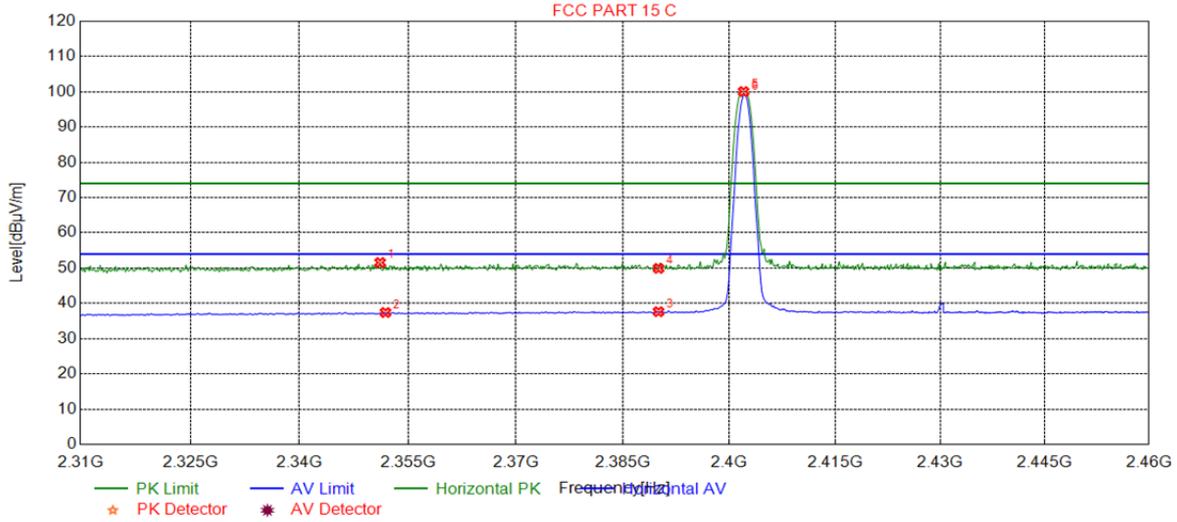
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	84.85	1.51	74.00	-10.85	150	164	Vertical
2	2480.00	81.31	1.51	54.00	-27.31	150	360	Vertical
3	2483.50	34.46	1.52	54.00	19.54	150	138	Vertical
4	2483.74	52.22	1.52	74.00	21.78	150	146	Vertical
5	2496.69	48.66	1.56	74.00	25.34	150	100	Vertical
6	2497.89	34.97	1.56	54.00	19.03	150	17	Vertical



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4.10.1.3 Worst Case Mode(GFSK) Lowest Channel_ Peak_ Horizontal



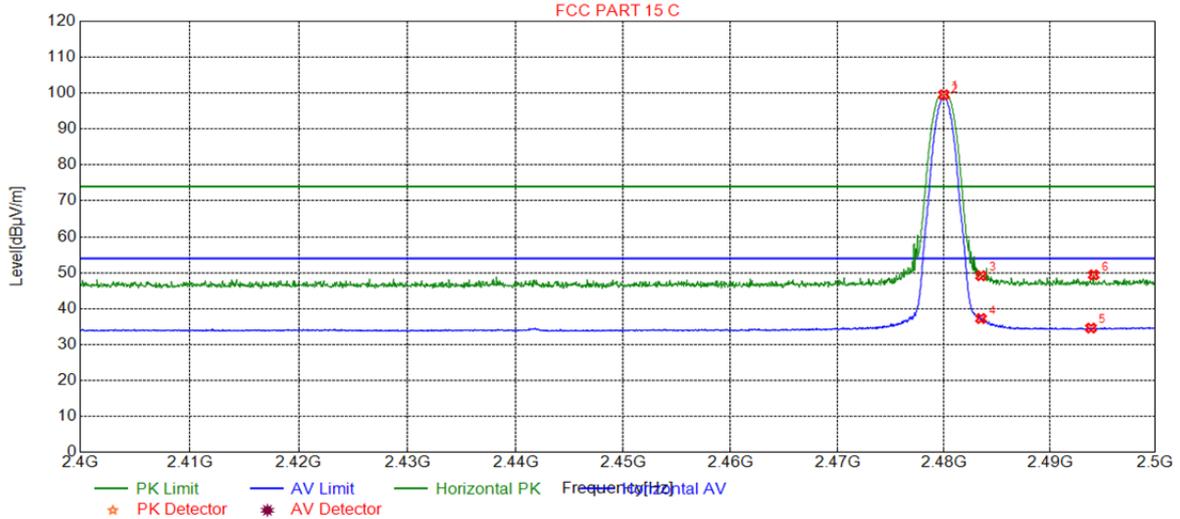
Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2351.14	51.58	1.08	74.00	22.42	150	80	Horizontal
2	2351.89	37.41	1.08	54.00	16.59	150	235	Horizontal
3	2390.00	37.64	1.25	54.00	16.36	150	197	Horizontal
4	2390.00	49.92	1.25	74.00	24.08	150	266	Horizontal
5	2402.00	100.06	1.30	74.00	-26.06	150	39	Horizontal
6	2402.00	99.36	1.30	54.00	-45.36	150	39	Horizontal



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4.10.1.4 Worst Case Mode(GFSK) Highest Channel_ Peak_ Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	99.54	1.51	74.00	-25.54	150	101	Horizontal
2	2480.00	98.74	1.51	54.00	-44.74	150	64	Horizontal
3	2483.50	49.15	1.52	74.00	24.85	150	105	Horizontal
4	2483.50	37.25	1.52	54.00	16.75	150	64	Horizontal
5	2493.89	34.59	1.55	54.00	19.41	150	257	Horizontal
6	2494.14	49.38	1.55	74.00	24.62	150	8	Horizontal

Remark:

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

All Modes have been tested, but only the worst case data displayed in this report.



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/13	2019/7/12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/4/12	2020/4/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/27	2019/9/27
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019/3/2	2020/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/4/12	2020/4/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for HR/2019/40008.

The End



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