

6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:
FCC Part 15 C Section 15.247 (a)(1) requirement:

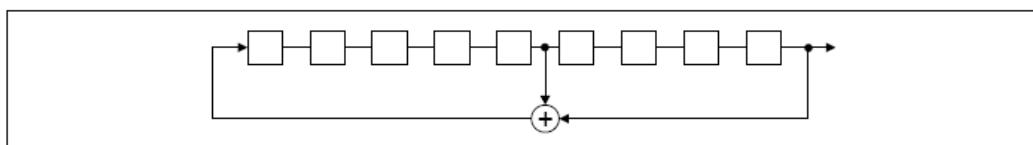
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

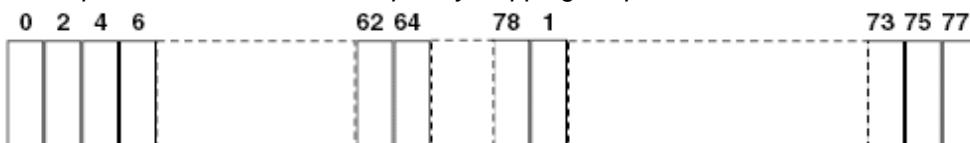
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

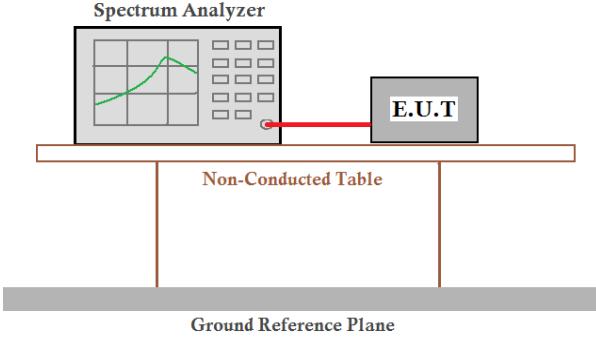


Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

6.9 Band Edge

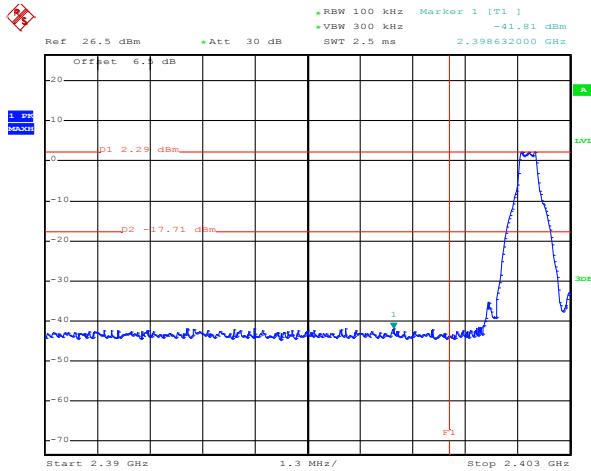
6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and DA00-705
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
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 setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

Test plot as follows:

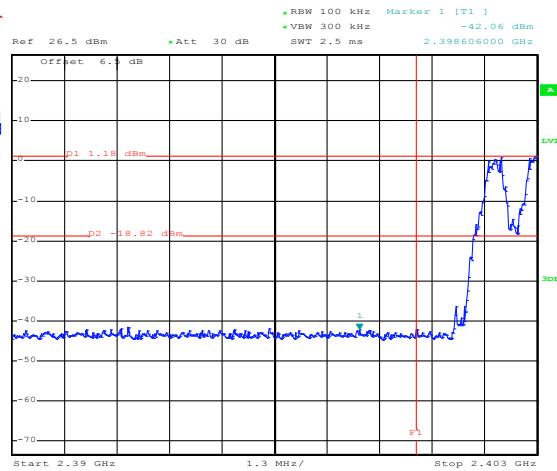
GFSK

Lowest Channel



Date: 27.SEP.2016 10:22:24

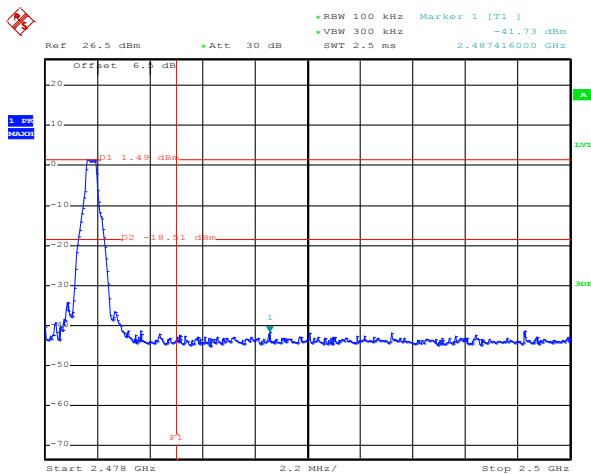
No-hopping mode



Date: 27.SEP.2016 10:38:07

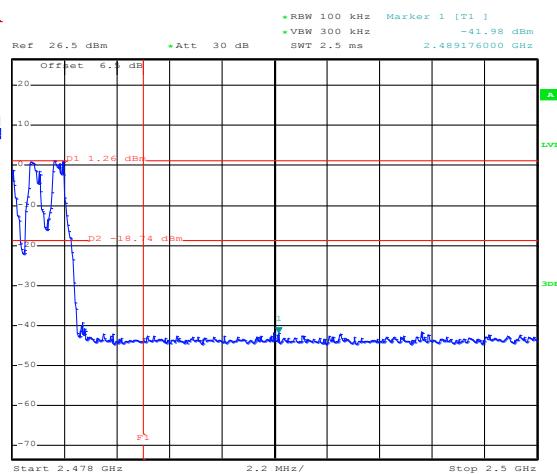
Hopping mode

Highest Channel



Date: 27.SEP.2016 10:43:30

No-hopping mode

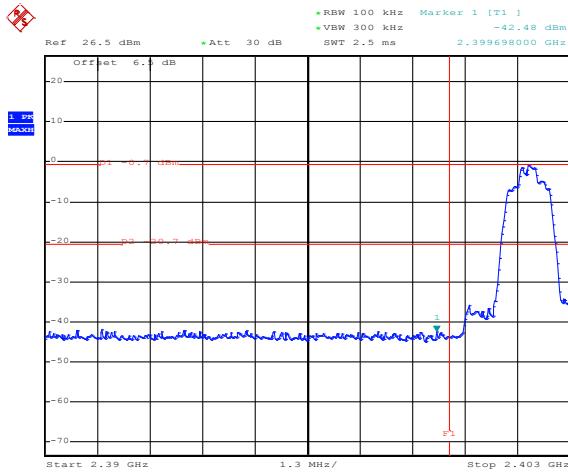


Date: 27.SEP.2016 10:45:02

Hopping mode

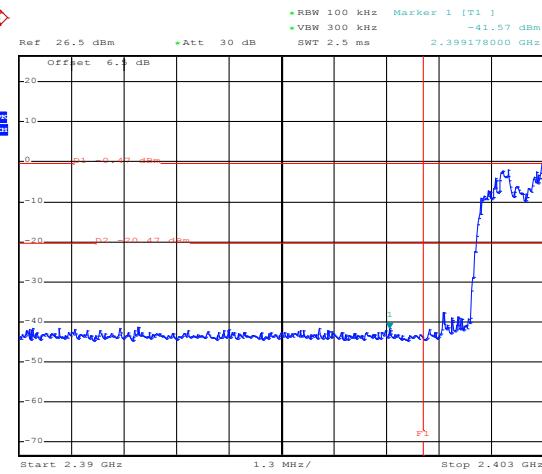
$\pi/4$ -DQPSK

Lowest Channel



Date: 27.SEP.2016 10:24:18

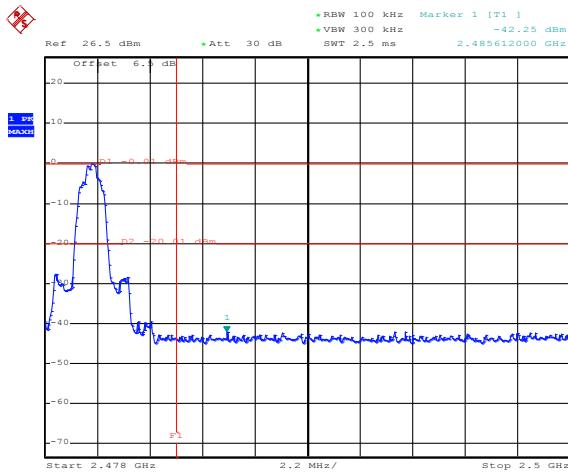
No-hopping mode



Date: 27.SEP.2016 10:39:51

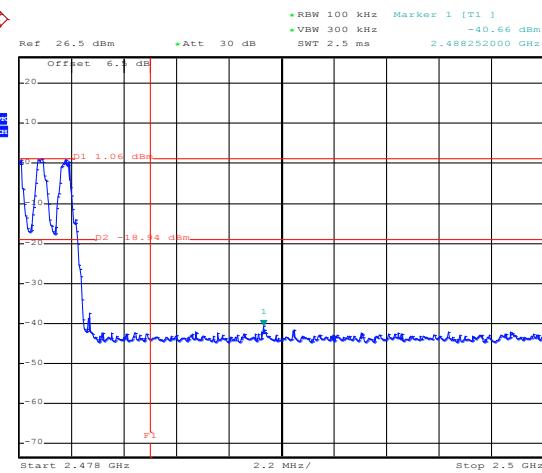
Hopping mode

Highest Channel



Date: 27.SEP.2016 10:46:39

No-hopping mode

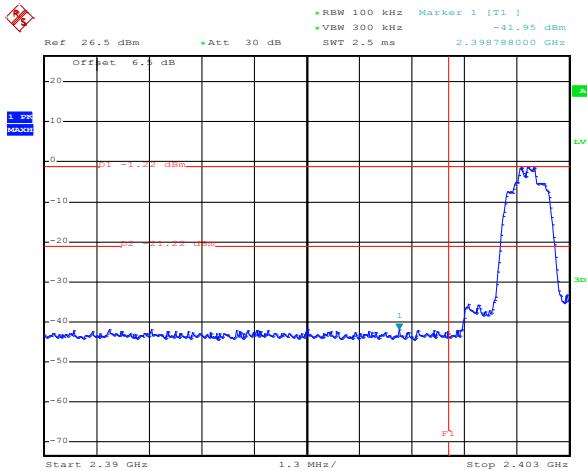


Date: 27.SEP.2016 10:48:02

Hopping mode

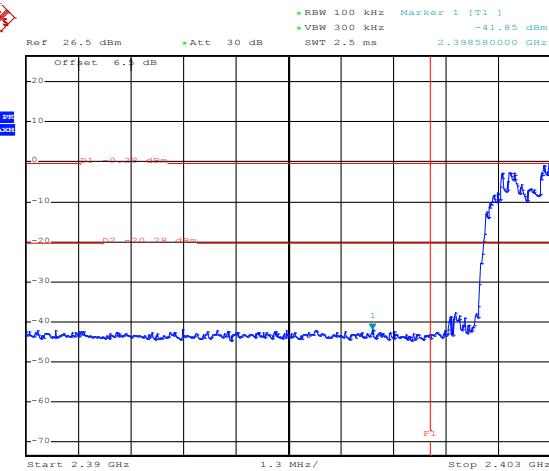
8DPSK

Lowest Channel



Date: 27.SEP.2016 10:29:38

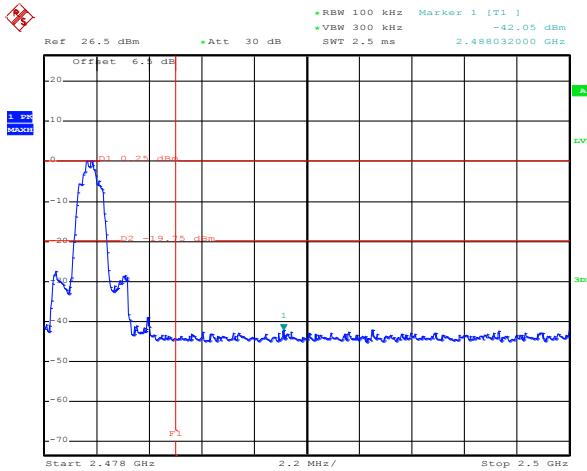
No-hopping mode



Date: 27.SEP.2016 10:41:54

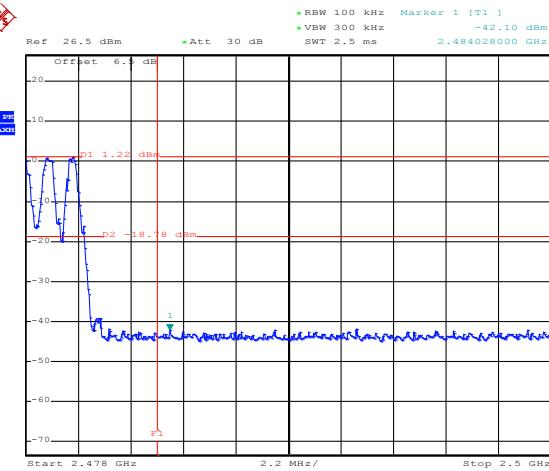
Hopping mode

Highest Channel



Date: 27.SEP.2016 10:50:42

No-hopping mode



Date: 27.SEP.2016 10:51:54

Hopping mode

6.9.2 Radiated Emission Method

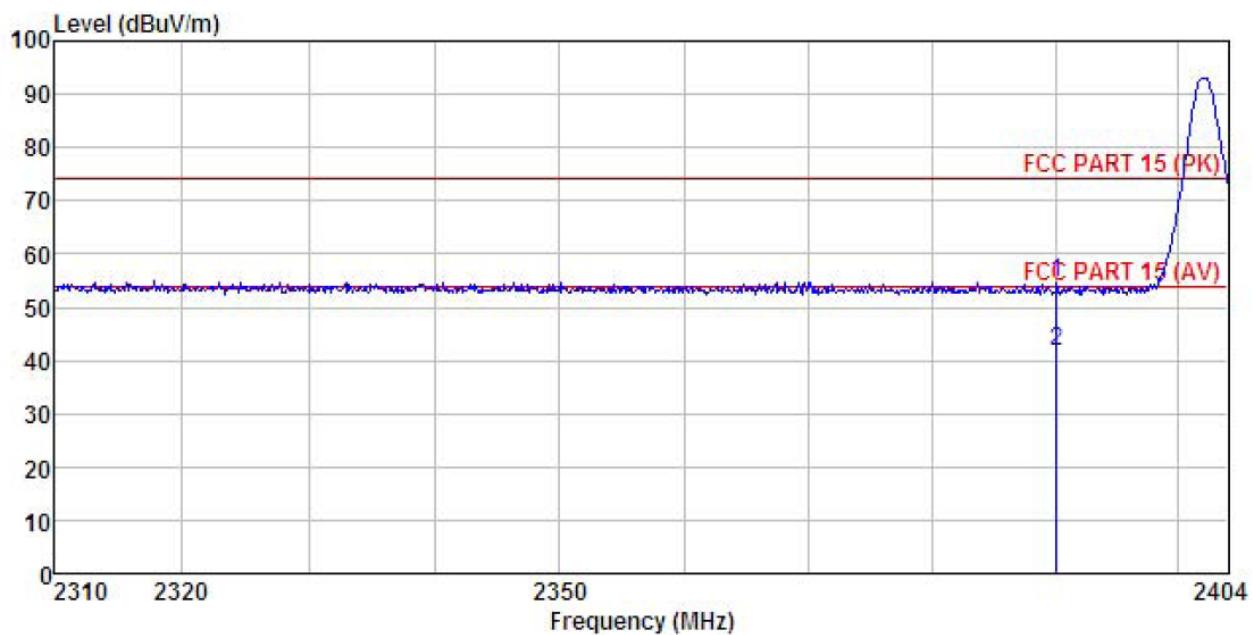
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	2.3GHz to 2.5GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		RMS	1MHz	3MHz	Average Value				
Limit:	Frequency	Limit (dBuV/m @ 3m)		Remark					
	Above 1GHz	54.00		Average Value					
		74.00		Peak Value					
Test setup:									
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 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 rota 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. 								
Test Instruments:	Refer to section 5.7 for details								
Test mode:	Non-hopping mode								
Test results:	Passed								

Remark:

- During the test, pre-scan the GFSK, π/4-DQPSK, 8DPSK, and all data were shown in report.
- Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.

GFSK mode**Test channel: Lowest**

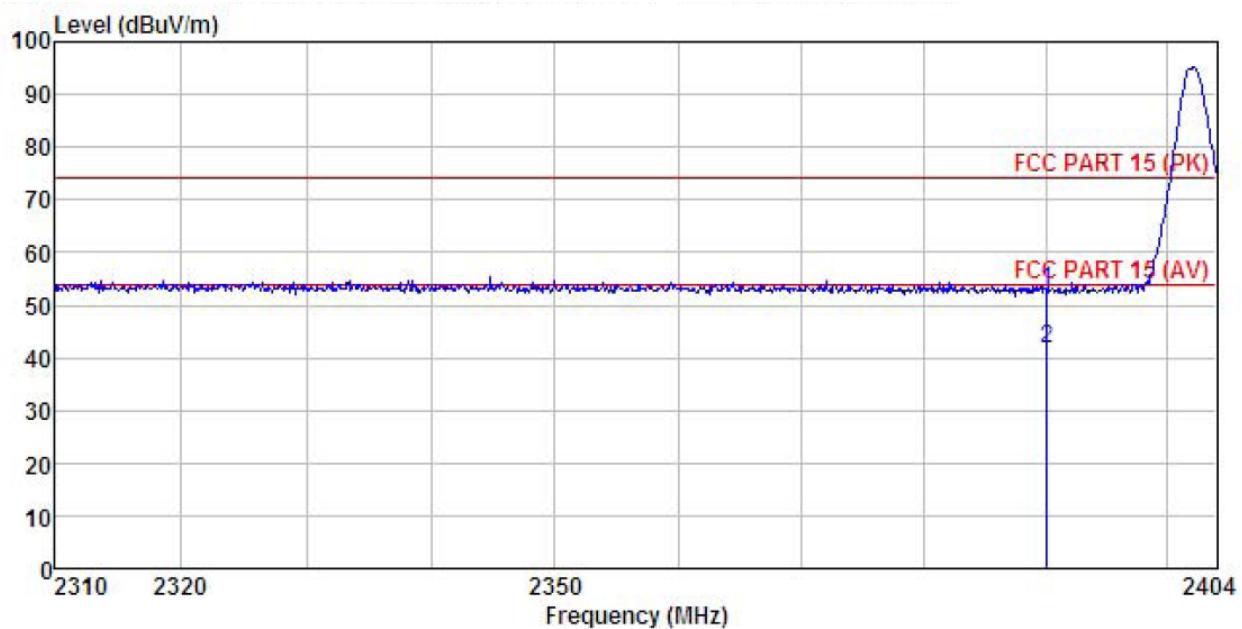
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	26.16	23.68	4.69	0.00	54.53	74.00 -19.47 Peak
2	2390.000	13.31	23.68	4.69	0.00	41.68	54.00 -12.32 Average

Vertical:

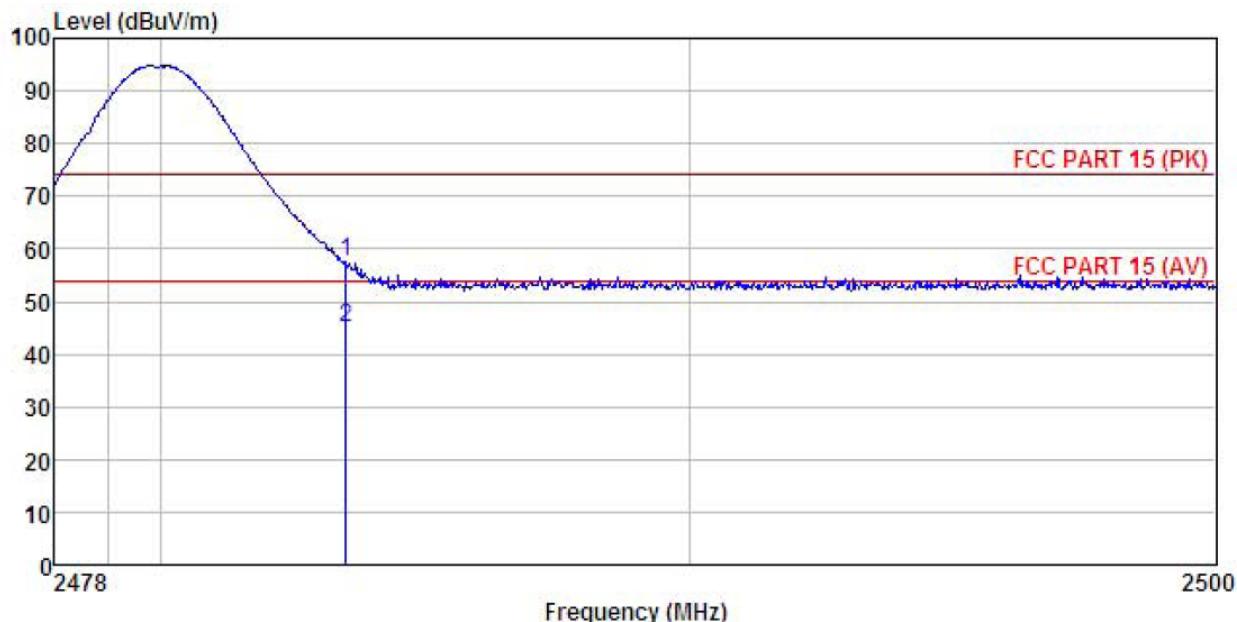


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	24.50	23.68	4.69	0.00	52.87	74.00	-21.13 Peak
2	2390.000	13.31	23.68	4.69	0.00	41.68	54.00	-12.32 Average

Test channel: Highest

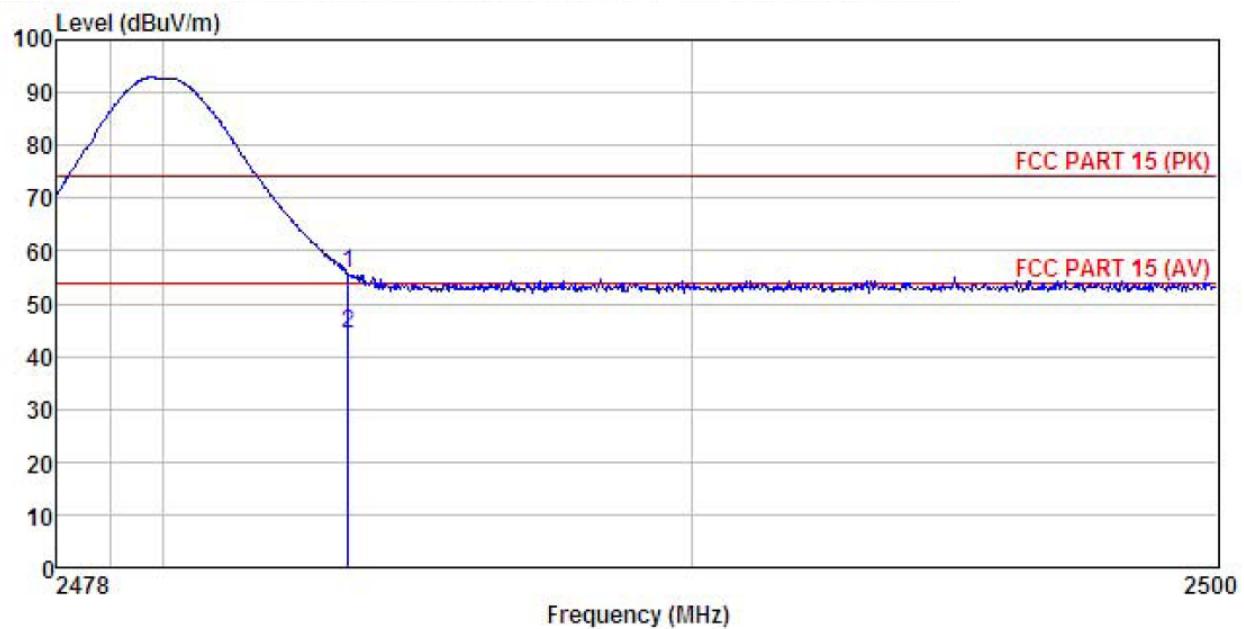
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	28.89	23.70	4.81	0.00	57.40	74.00 -16.60 Peak
2	2483.500	16.32	23.70	4.81	0.00	44.83	54.00 -9.17 Average

Vertical:



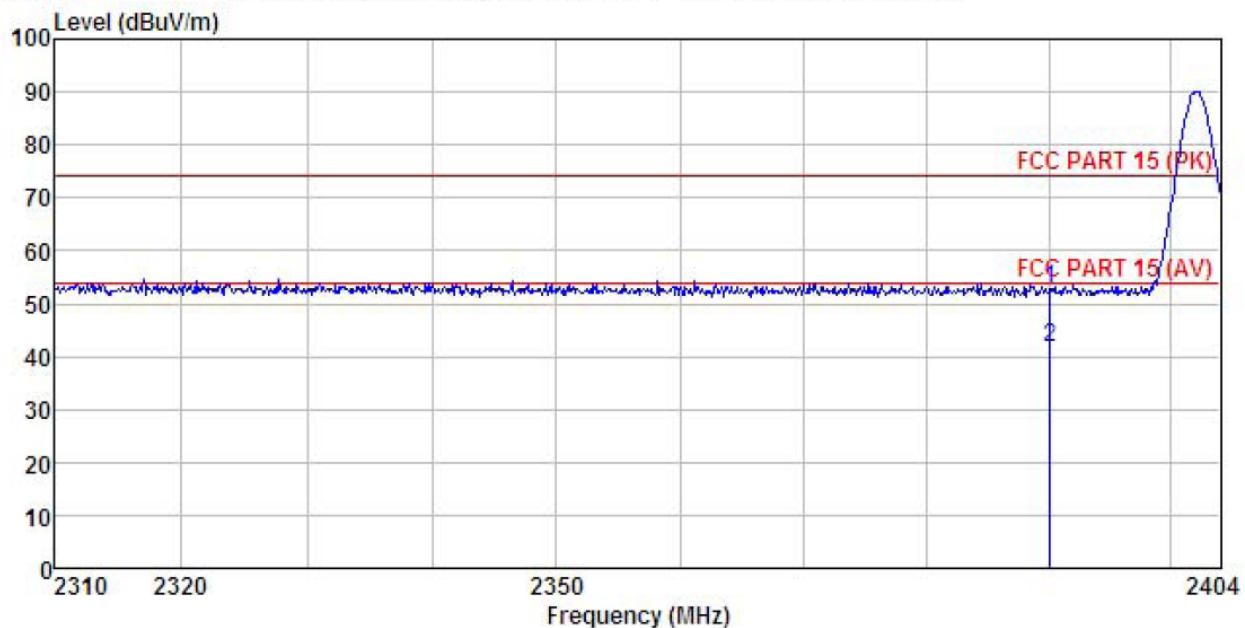
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL.
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Zora
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	27.15	23.70	4.81	0.00	55.66	74.00 -18.34 Peak
2	2483.500	15.82	23.70	4.81	0.00	44.33	54.00 -9.67 Average

$\pi/4$ -DQPSK mode

Test channel: Lowest

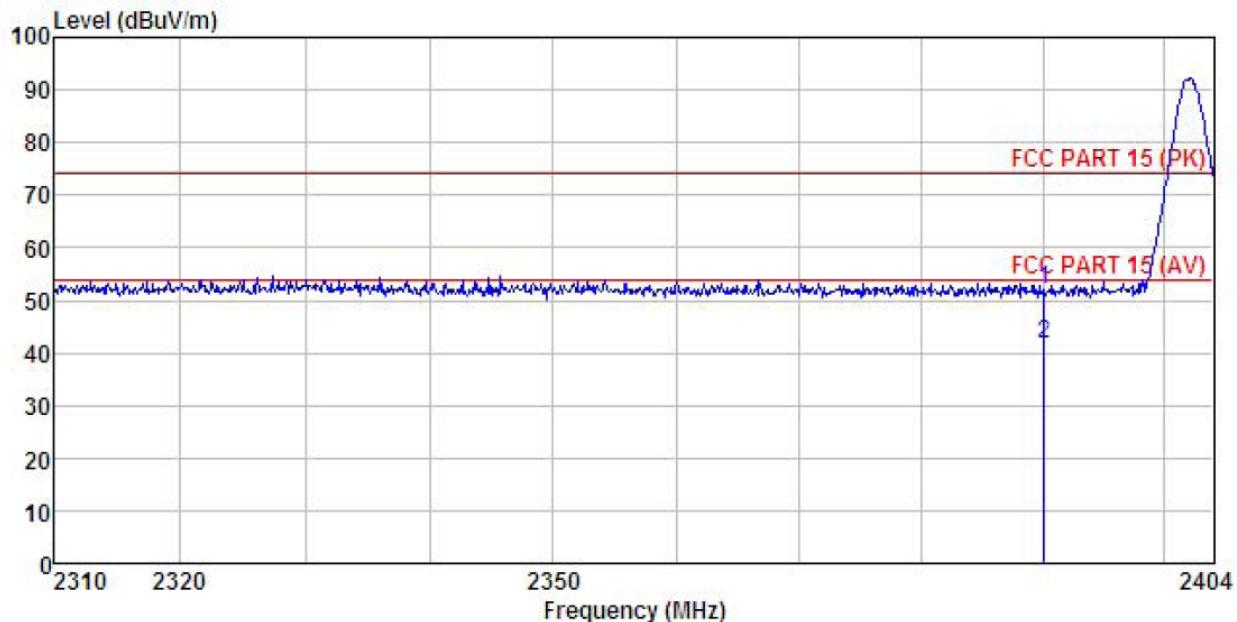
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 2DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2390.000	24.31	23.68	4.69	0.00	52.68
2	2390.000	13.28	23.68	4.69	0.00	41.65
					74.00	-21.32 Peak
					54.00	-12.35 Average

Vertical:

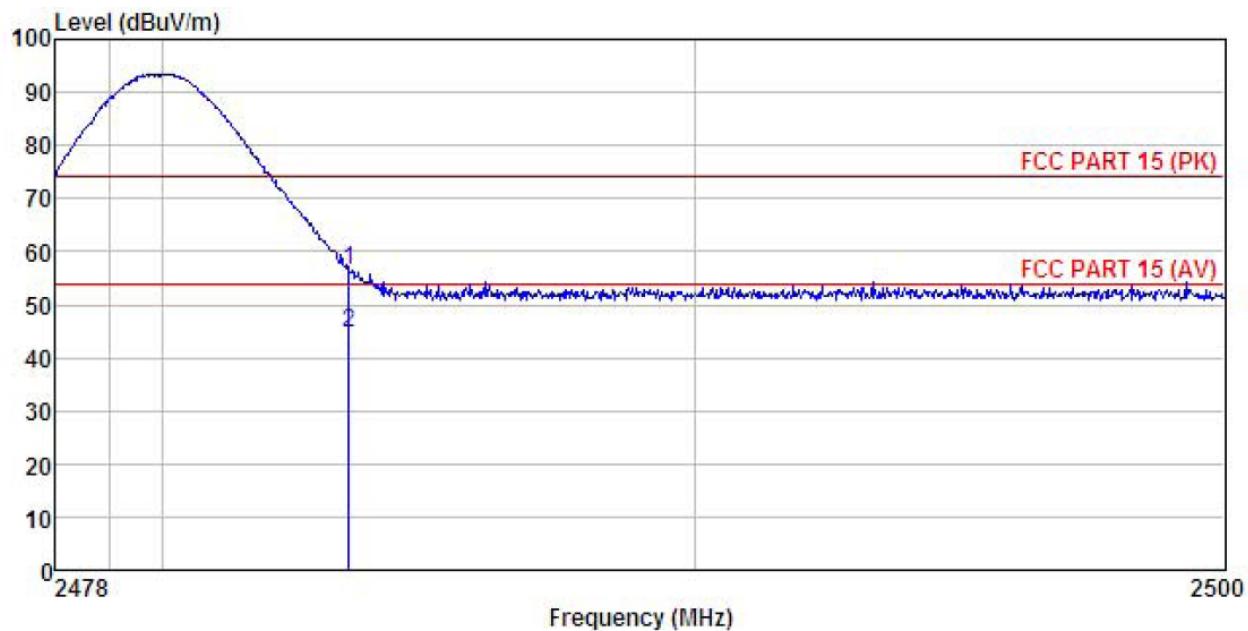


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 2DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Zora
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	23.73	23.68	4.69	0.00	52.10	74.00 -21.90 Peak
2	2390.000	13.26	23.68	4.69	0.00	41.63	54.00 -12.37 Average

Test channel: Highest

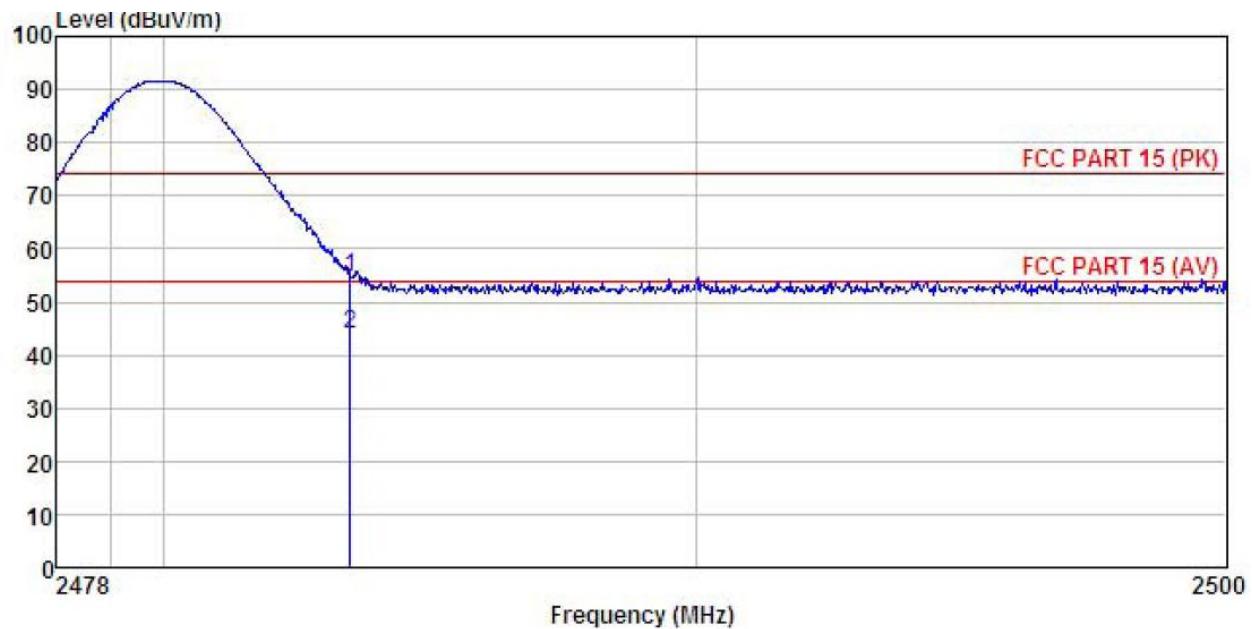
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 2DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	27.94	23.70	4.81	0.00	56.45	74.00	-17.55 Peak
2	2483.500	15.96	23.70	4.81	0.00	44.47	54.00	-9.53 Average

Vertical:

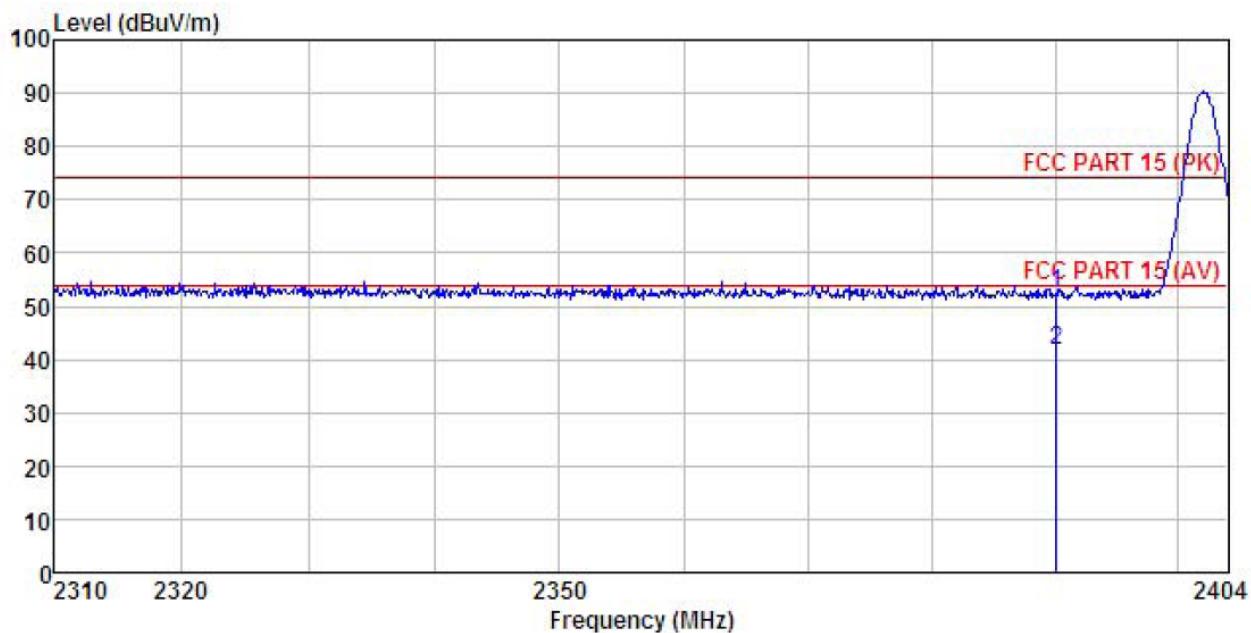


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 2DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	26.02	23.70	4.81	0.00	54.53
2	2483.500	15.43	23.70	4.81	0.00	43.94
					74.00	-19.47 Peak
					54.00	-10.06 Average

8DPSK mode**Test channel: Lowest**

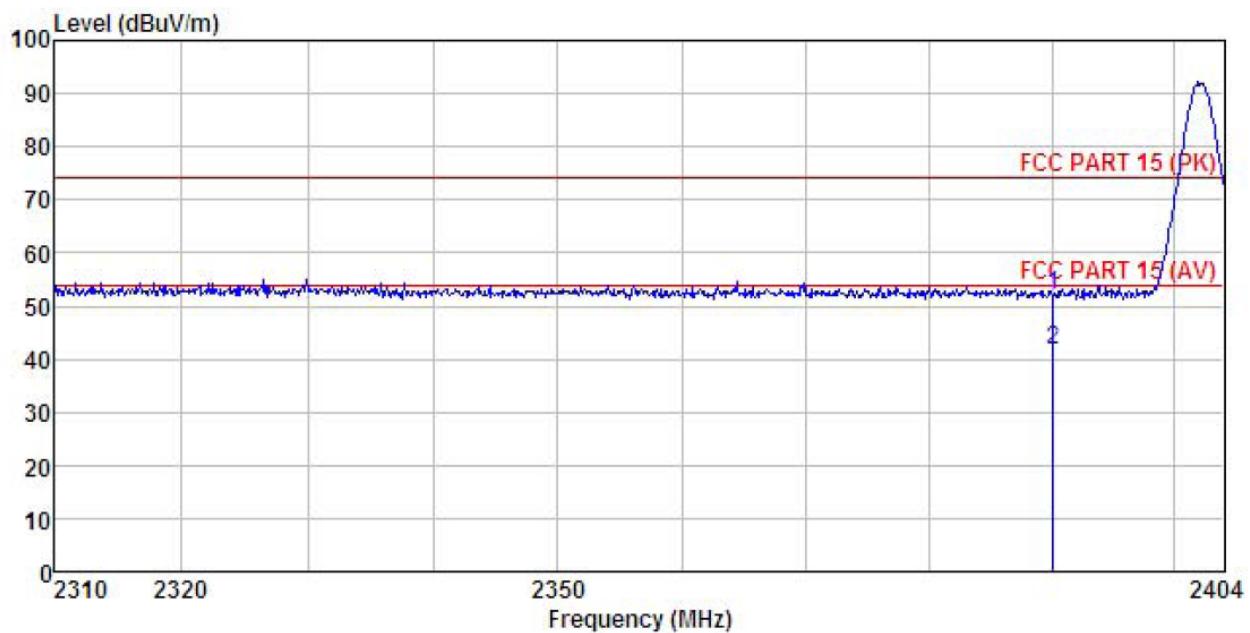
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 3DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	23.98	23.68	4.69	0.00	52.35	74.00 -21.65 Peak
2	2390.000	13.30	23.68	4.69	0.00	41.67	54.00 -12.33 Average

Vertical:

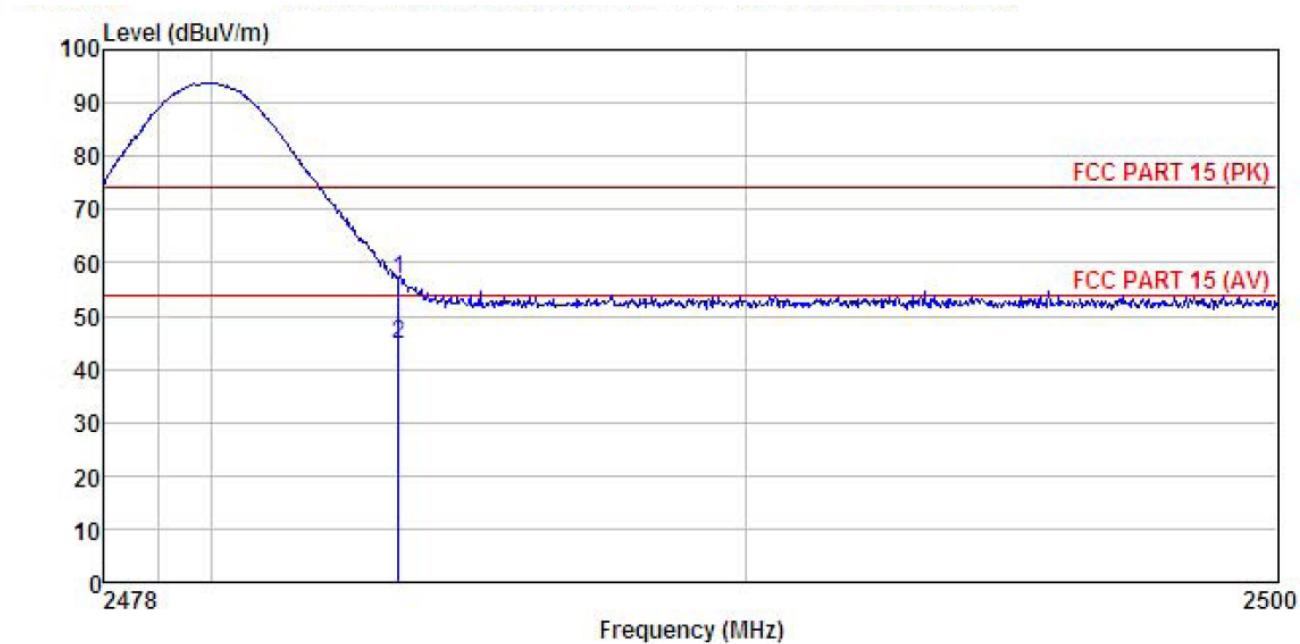


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 3DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	23.61	23.68	4.69	0.00	51.98
2	2390.000	13.31	23.68	4.69	0.00	41.68
					74.00	-22.02 Peak
					54.00	-12.32 Average

Test channel: Highest

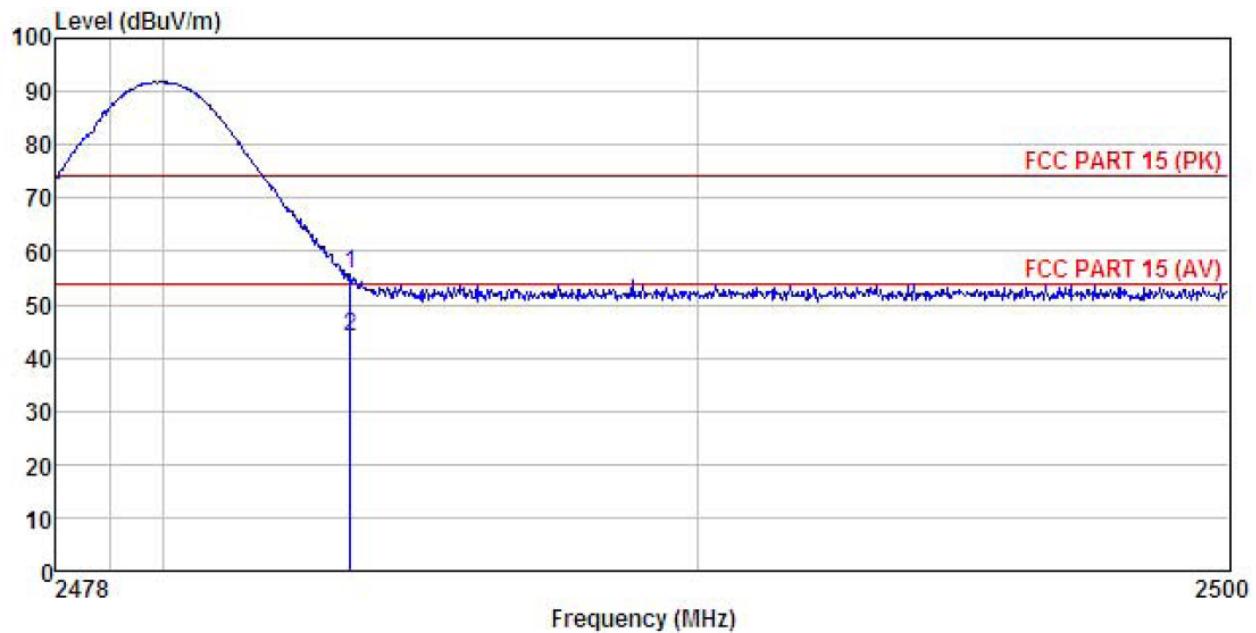
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 3DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Zora
REMARK :

	ReadAntenna Freq	Cable Level MHz	Preamp Factor	Loss dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1	2483.500	28.33	23.70	4.81	0.00	56.84	74.00	-17.16 Peak
2	2483.500	15.99	23.70	4.81	0.00	44.50	54.00	-9.50 Average

Vertical:

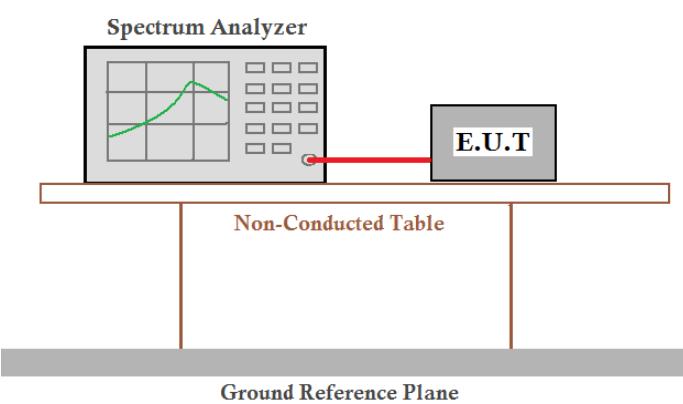


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : 3DH1-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

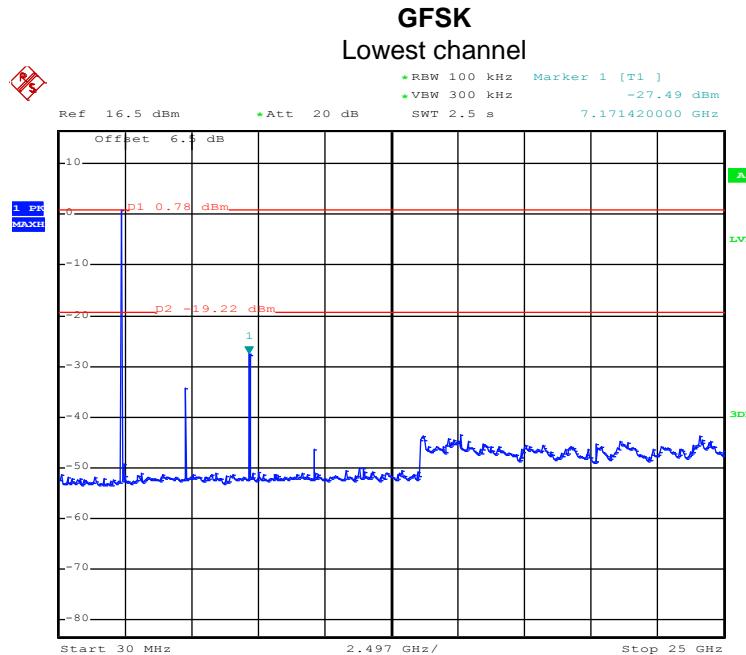
	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	27.33	23.70	4.81	0.00	55.84	74.00	-18.16 Peak
2	2483.500	15.45	23.70	4.81	0.00	43.96	54.00	-10.04 Average

6.10 Spurious Emission

6.10.1 Conducted Emission Method

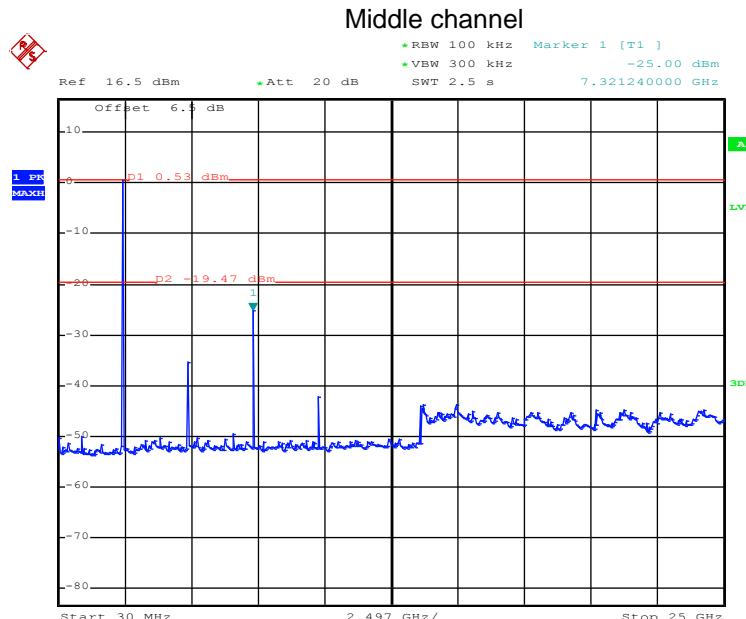
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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 setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Test plot as follows:



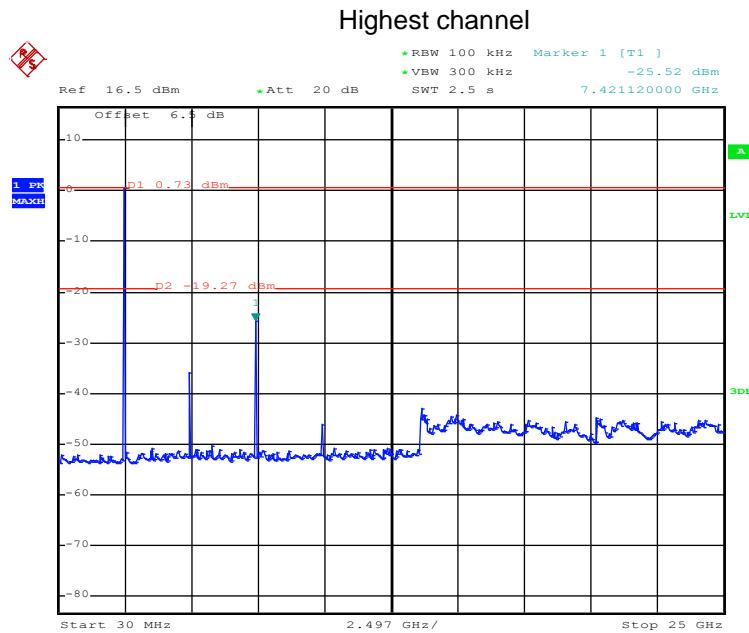
Date: 27.SEP.2016 11:11:55

30MHz~25GHz



Date: 27.SEP.2016 11:18:28

30MHz~25GHz

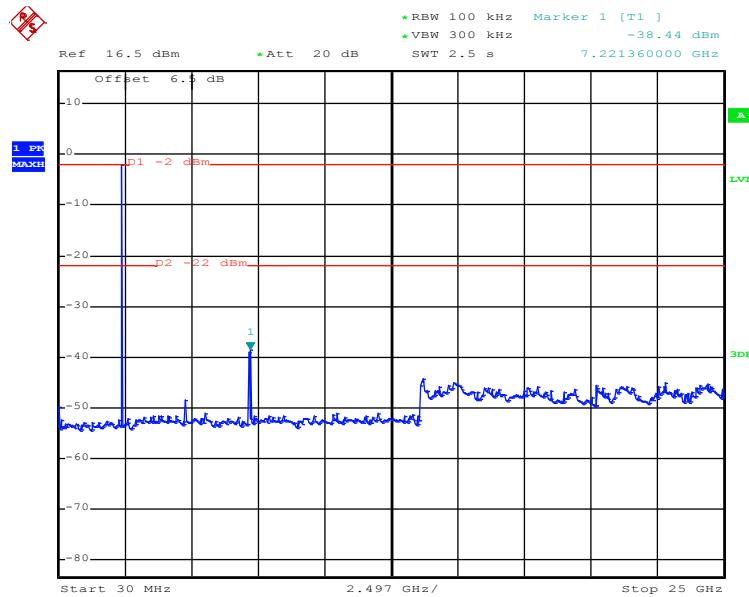


Date: 27.SEP.2016 11:14:27

30MHz~25GHz

$\pi/4$ -DQPSK

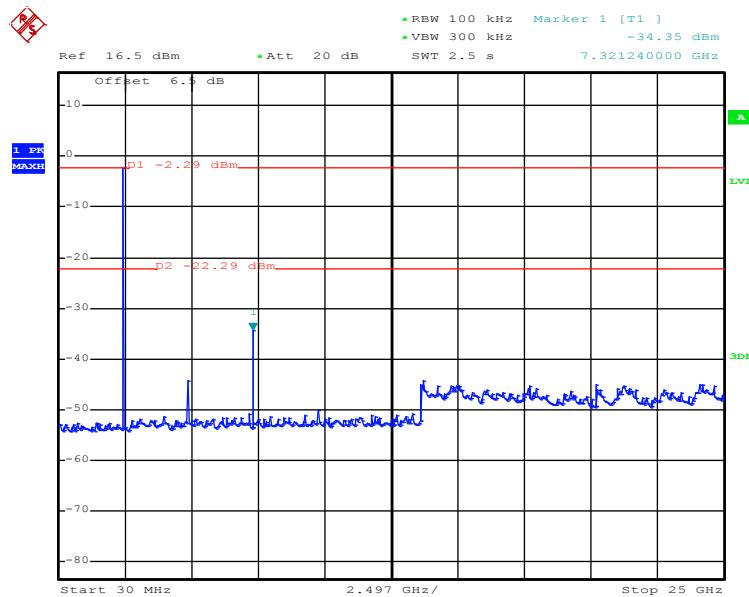
Lowest channel



Date: 27.SEP.2016 11:19:46

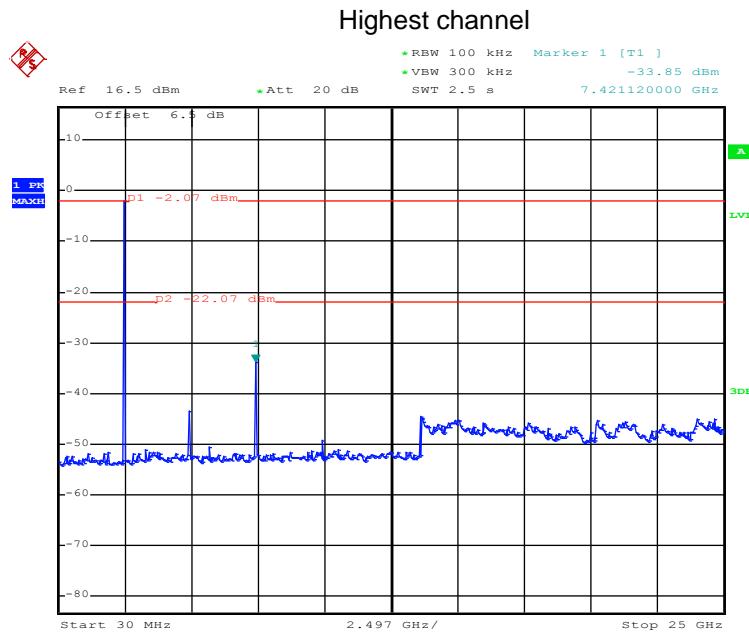
30MHz~25GHz

Middle channel



Date: 27.SEP.2016 11:20:32

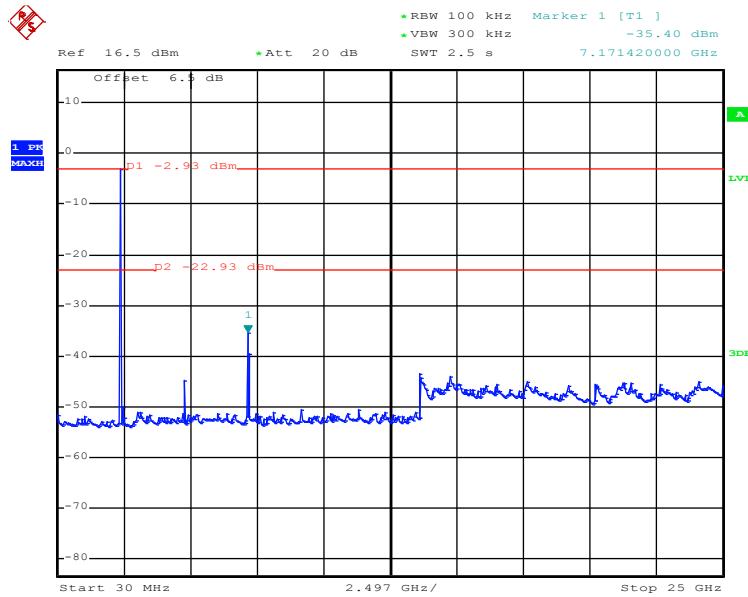
30MHz~25GHz



Date: 27.SEP.2016 11:21:23

30MHz~25GHz

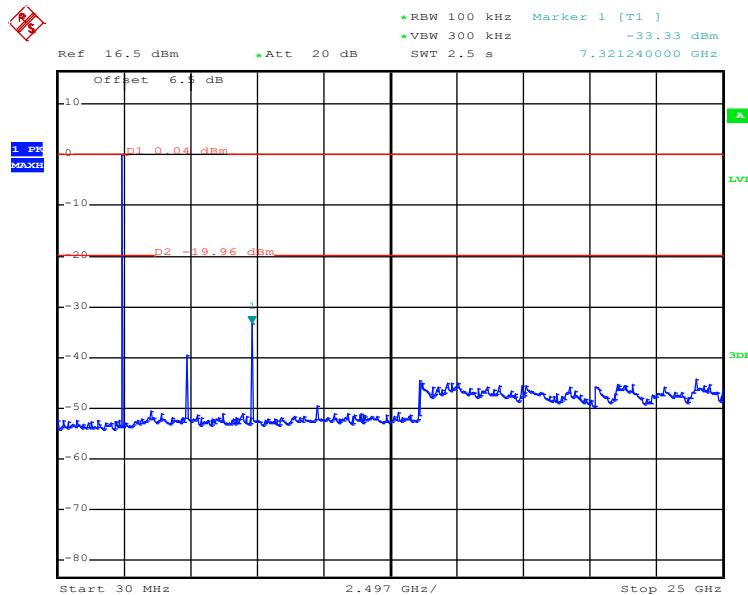
8DPSK Lowest channel



Date: 27.SEP.2016 11:22:46

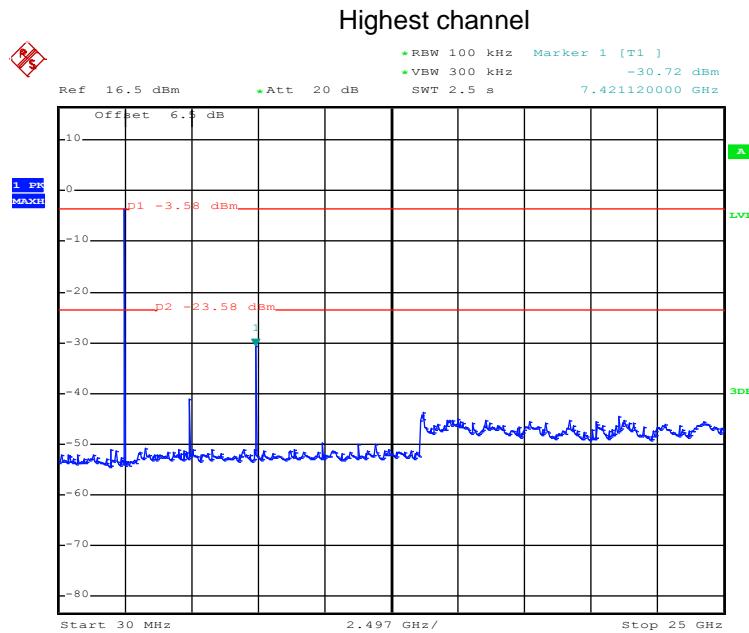
30MHz~25GHz

Middle channel



Date: 27.SEP.2016 11:24:45

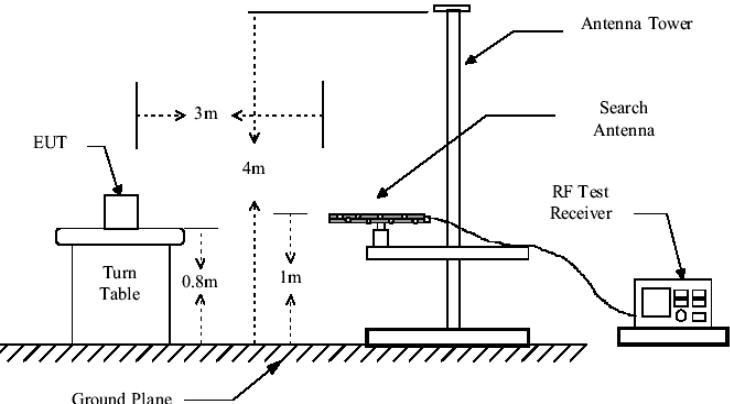
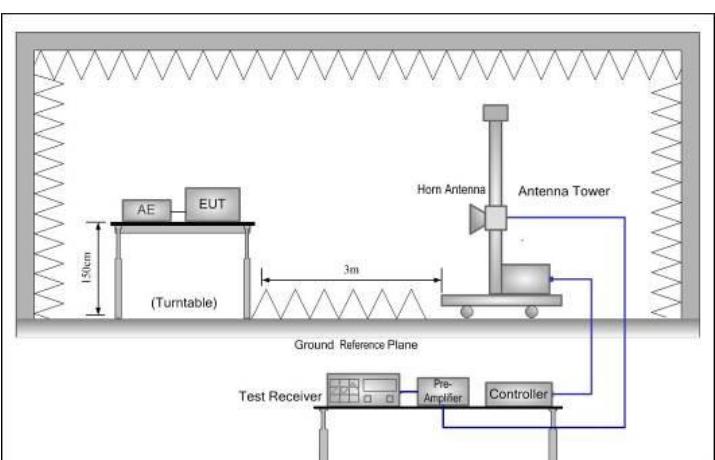
30MHz~25GHz



Date: 27.SEP.2016 11:25:53

30MHz~25GHz

6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9 kHz to 25 GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
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:	Below 1GHz  Above 1GHz 				

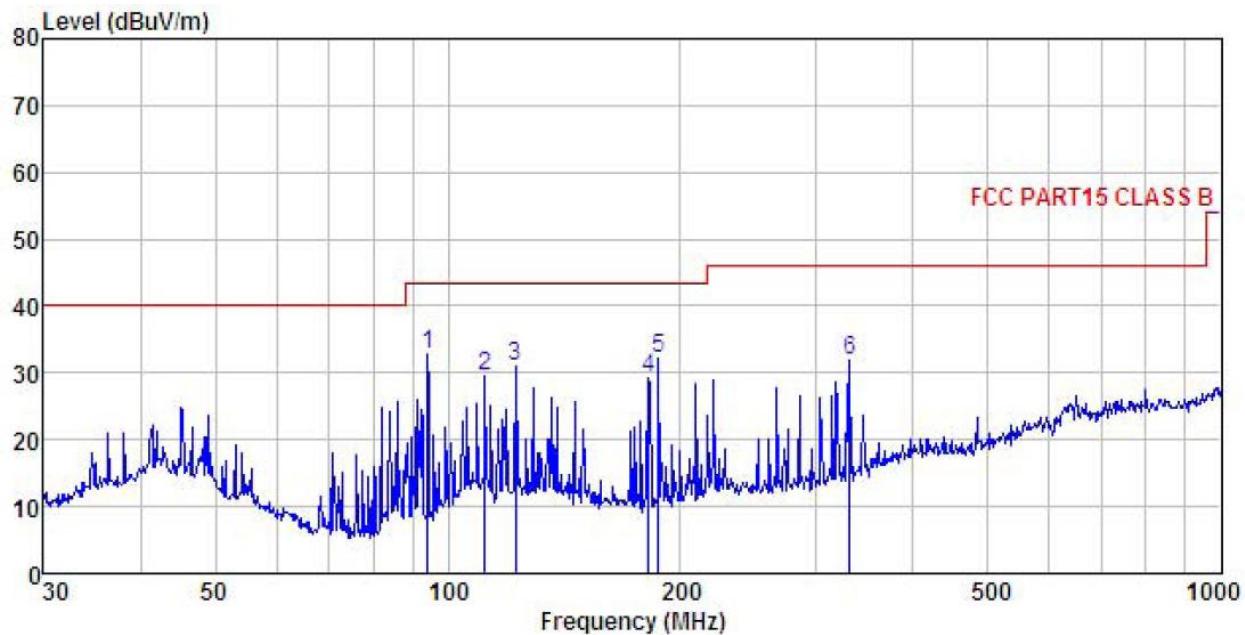
Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. 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.4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. 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.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Remark:

1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
3. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

Measurement data:**Below 1GHz**

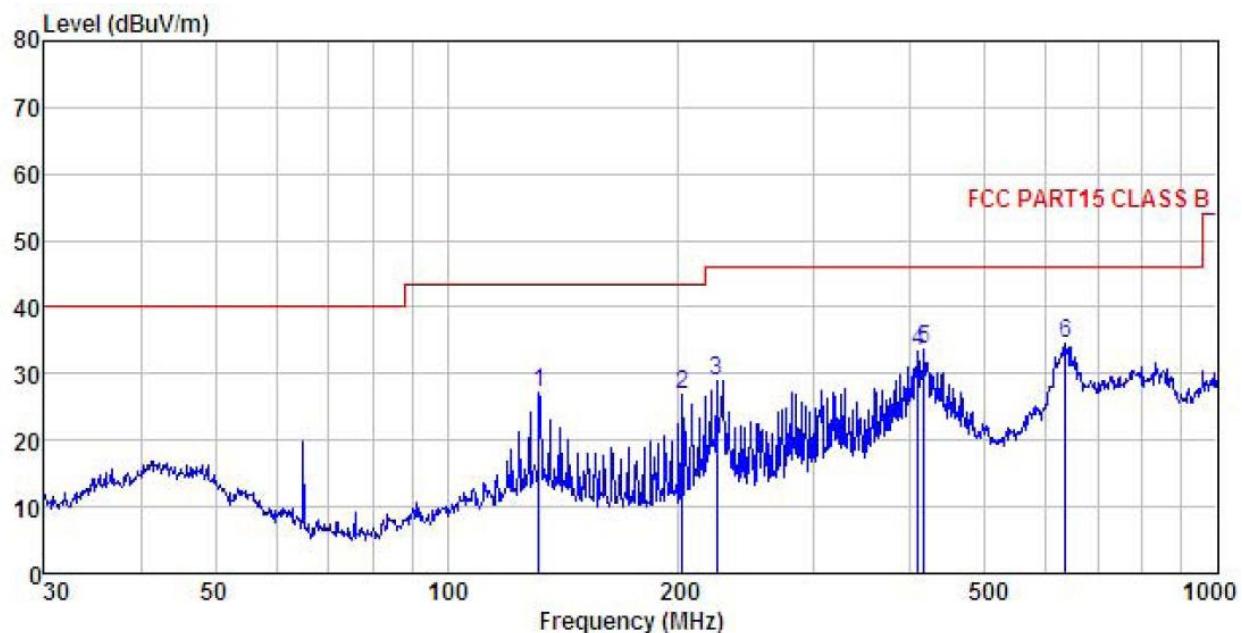
Vertical:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : BT mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: Zora
REMARK :

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	94.098	51.77	8.53	2.01	29.55	32.76	43.50	-10.74 QP
2	111.738	46.17	10.62	2.08	29.44	29.43	43.50	-14.07 QP
3	122.404	46.35	11.92	2.19	29.38	31.08	43.50	-12.42 QP
4	181.920	46.21	9.28	2.74	28.96	29.27	43.50	-14.23 QP
5	187.096	48.73	9.53	2.78	28.92	32.12	43.50	-11.38 QP
6	331.355	43.85	13.63	3.04	28.52	32.00	46.00	-14.00 QP

Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL
EUT : Bluetooth Earphone
Model : HPB4HE
Test mode : BT mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Zora
REMARK :

Freq MHz	Read	Antenna	Cable	Preamp	Limit dBuV/m	Over Line dB	Over Limit Remark
	Level dBuV	Factor	Loss dB	Level dB			
1 131.758	41.86	12.19	2.30	29.32	27.03	43.50	-16.47 QP
2 202.100	42.65	10.29	2.87	28.82	26.99	43.50	-16.51 QP
3 223.733	43.38	11.53	2.84	28.69	29.06	46.00	-16.94 QP
4 408.946	43.13	15.96	3.10	28.80	33.39	46.00	-12.61 QP
5 416.179	43.37	16.00	3.12	28.81	33.68	46.00	-12.32 QP
6 636.134	40.71	18.71	3.88	28.82	34.48	46.00	-11.52 QP

Above 1GHz:

Test channel:			Lowest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	68.31	35.99	6.80	41.81	69.29	74.00	-4.71	Vertical
4804.00	68.16	35.99	6.80	41.81	69.14	74.00	-4.86	Horizontal
Test channel:			Lowest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	44.60	35.99	6.80	41.81	45.58	54.00	-8.42	Vertical
4804.00	44.62	35.99	6.80	41.81	45.60	54.00	-8.40	Horizontal

Test channel:			Middle		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	66.73	36.38	6.86	41.84	68.13	74.00	-5.87	Vertical
4882.00	64.01	36.38	6.86	41.84	65.41	74.00	-8.59	Horizontal
Test channel:			Middle		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	43.95	36.38	6.86	41.84	45.35	54.00	-8.65	Vertical
4882.00	41.95	36.38	6.86	41.84	43.35	54.00	-10.65	Horizontal

Test channel:			Highest		Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	66.58	36.71	6.91	41.87	68.33	74.00	-5.67	Vertical
4960.00	60.59	36.71	6.91	41.87	62.34	74.00	-11.66	Horizontal
Test channel:			Highest		Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	43.70	36.71	6.91	41.87	45.45	54.00	-8.55	Vertical
4960.00	42.31	36.71	6.91	41.87	44.06	54.00	-9.94	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.