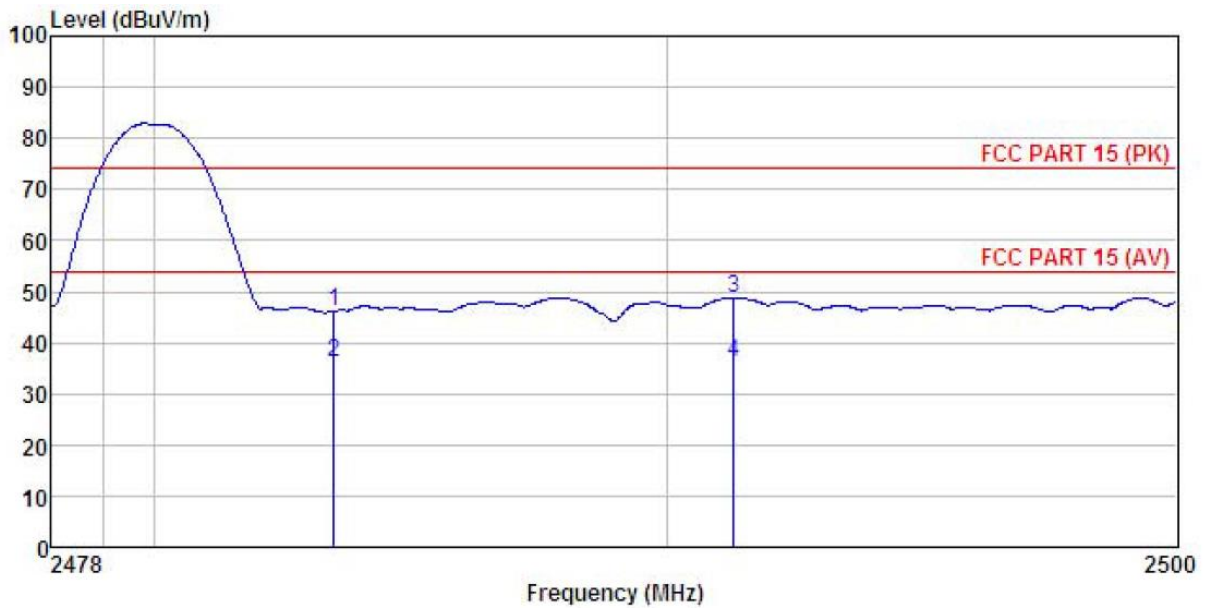


Vertical:



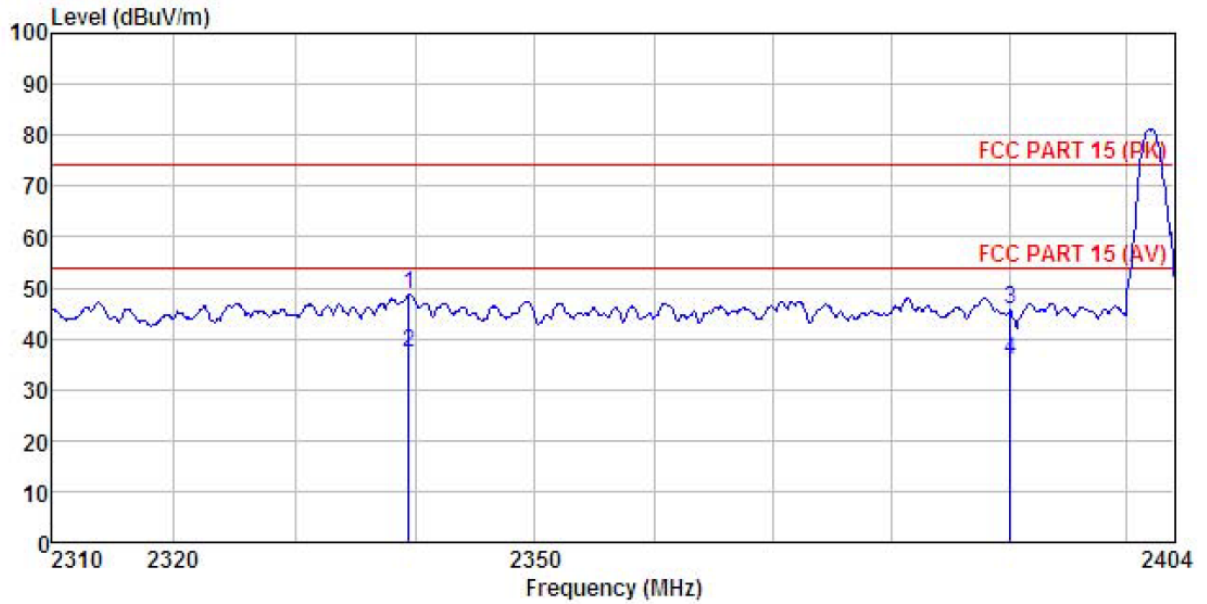
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : DH1-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	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	17.76	23.70	4.81	0.00	46.27	74.00	-27.73 Peak
2	2483.500	7.57	23.70	4.81	0.00	36.08	54.00	-17.92 Average
3	2491.309	20.29	23.70	4.82	0.00	48.81	74.00	-25.19 Peak
4	2491.309	7.53	23.70	4.82	0.00	36.05	54.00	-17.95 Average

π/4-DQPSK mode

Test channel: Lowest

Horizontal:

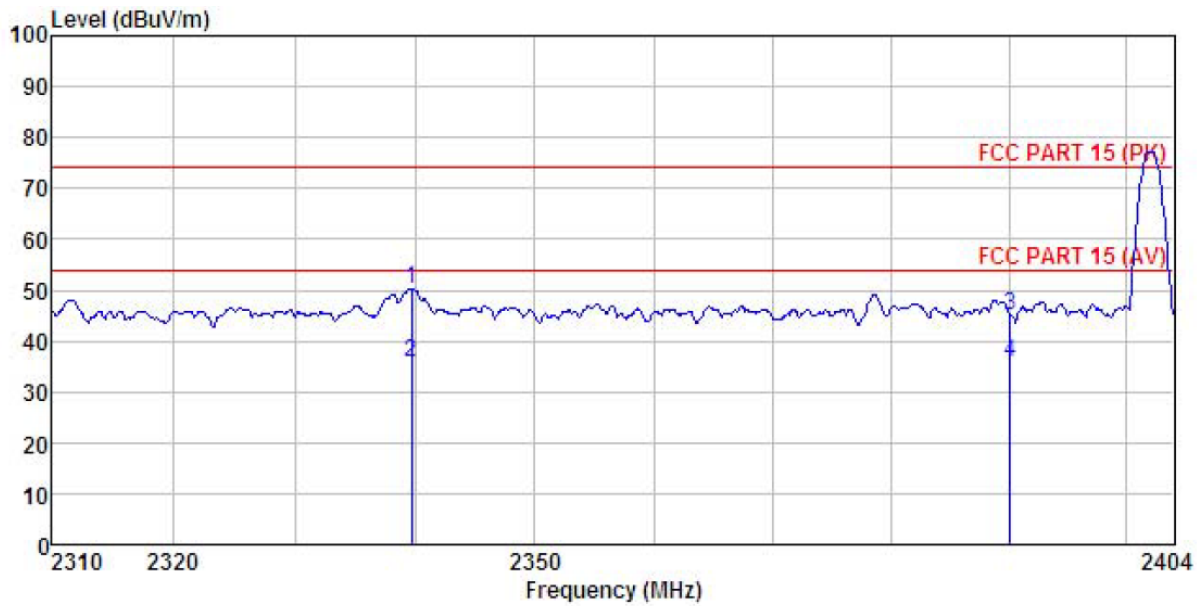


```

Site       : 3m chamber
Condition  : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT        : Mobile phone
Model      : AKARU A5 QL
Test mode  : 2DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: YT
REMARK     :
    
```

	ReadAntenna	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	2339.486	20.32	23.67	4.64	0.00	48.63	74.00	-25.37 Peak
2	2339.486	8.97	23.67	4.64	0.00	37.28	54.00	-16.72 Average
3	2390.000	17.26	23.68	4.69	0.00	45.63	74.00	-28.37 Peak
4	2390.000	7.59	23.68	4.69	0.00	35.96	54.00	-18.04 Average

Vertical:

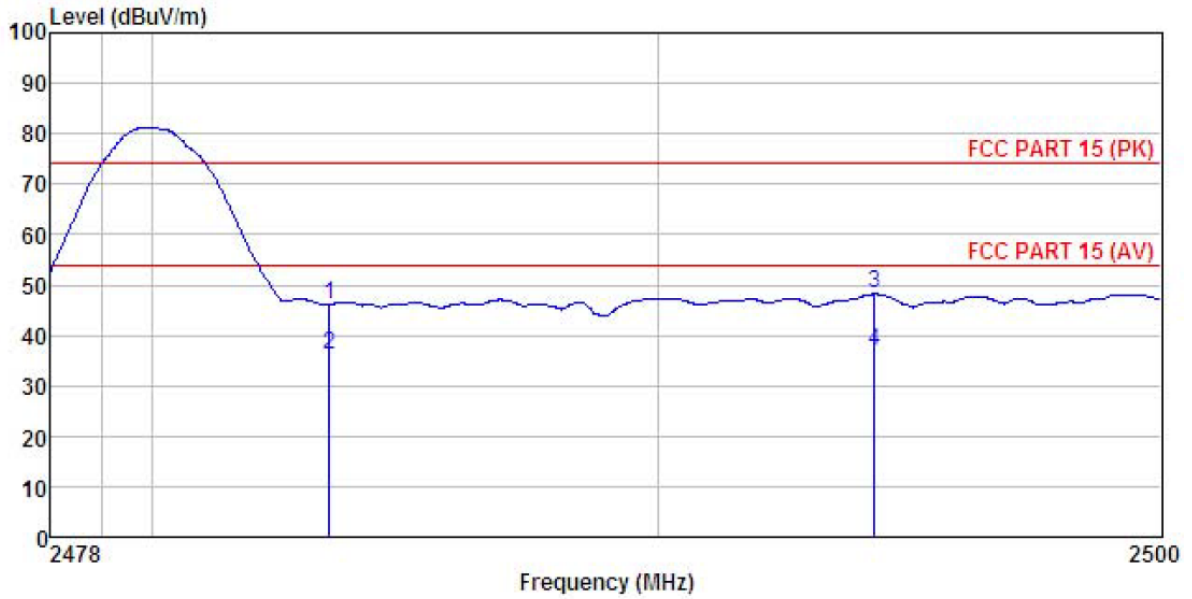


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : 2DH1-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2339.673	22.01	23.67	4.64	0.00	50.32	74.00	-23.68 Peak
2	2339.673	7.59	23.67	4.64	0.00	35.90	54.00	-18.10 Average
3	2390.000	16.64	23.68	4.69	0.00	45.01	74.00	-28.99 Peak
4	2390.000	7.59	23.68	4.69	0.00	35.96	54.00	-18.04 Average

Test channel: Highest

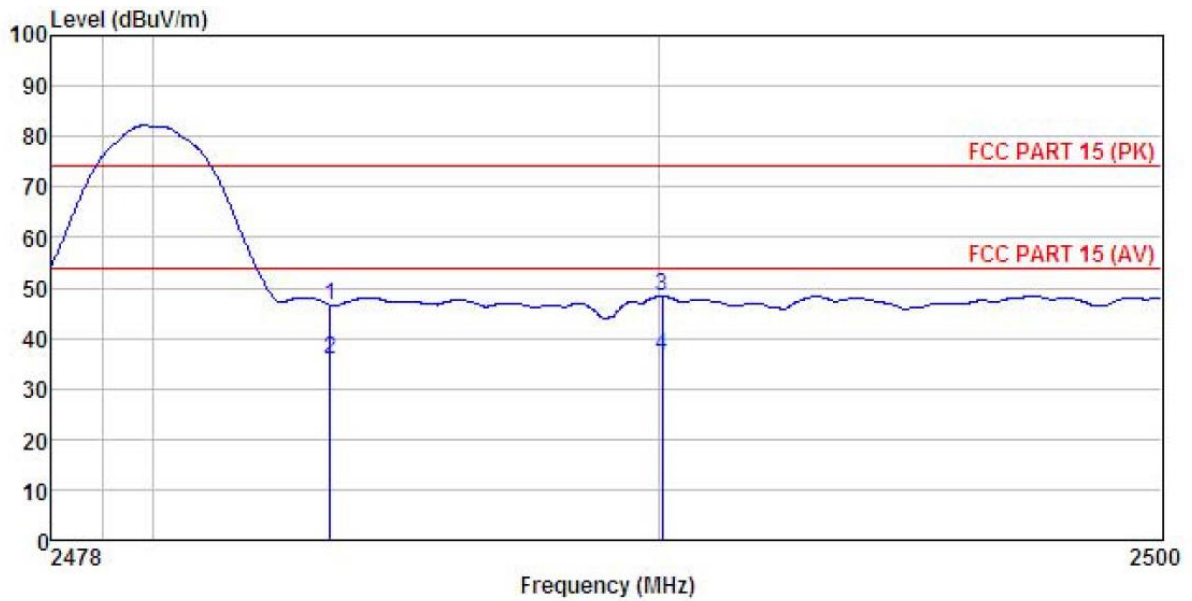
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : 2DH1-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	17.61	23.70	4.81	0.00	46.12	74.00	-27.88	Peak
2	2483.500	7.51	23.70	4.81	0.00	36.02	54.00	-17.98	Average
3	2494.305	19.66	23.70	4.82	0.00	48.18	74.00	-25.82	Peak
4	2494.305	8.24	23.70	4.82	0.00	36.76	54.00	-17.24	Average

Vertical:



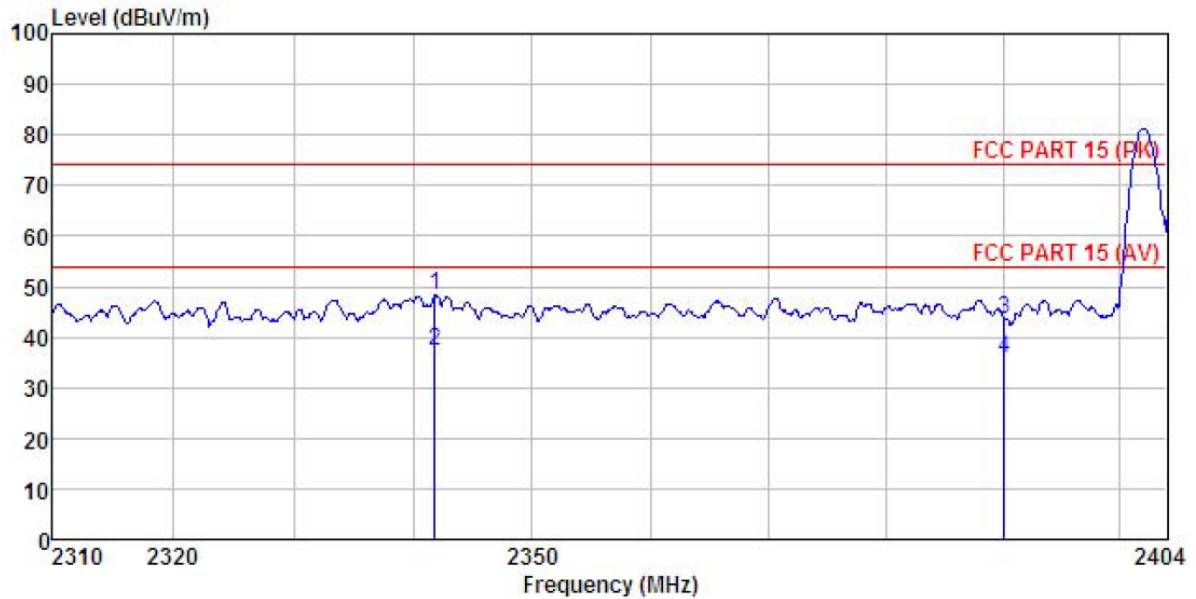
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : 2DH1-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	18.12	23.70	4.81	0.00	46.63	74.00 -27.37 Peak
2	2483.500	7.27	23.70	4.81	0.00	35.78	54.00 -18.22 Average
3	2490.076	19.81	23.70	4.82	0.00	48.33	74.00 -25.67 Peak
4	2490.076	7.85	23.70	4.82	0.00	36.37	54.00 -17.63 Average

8DPSK mode

Test channel: Lowest

Horizontal:

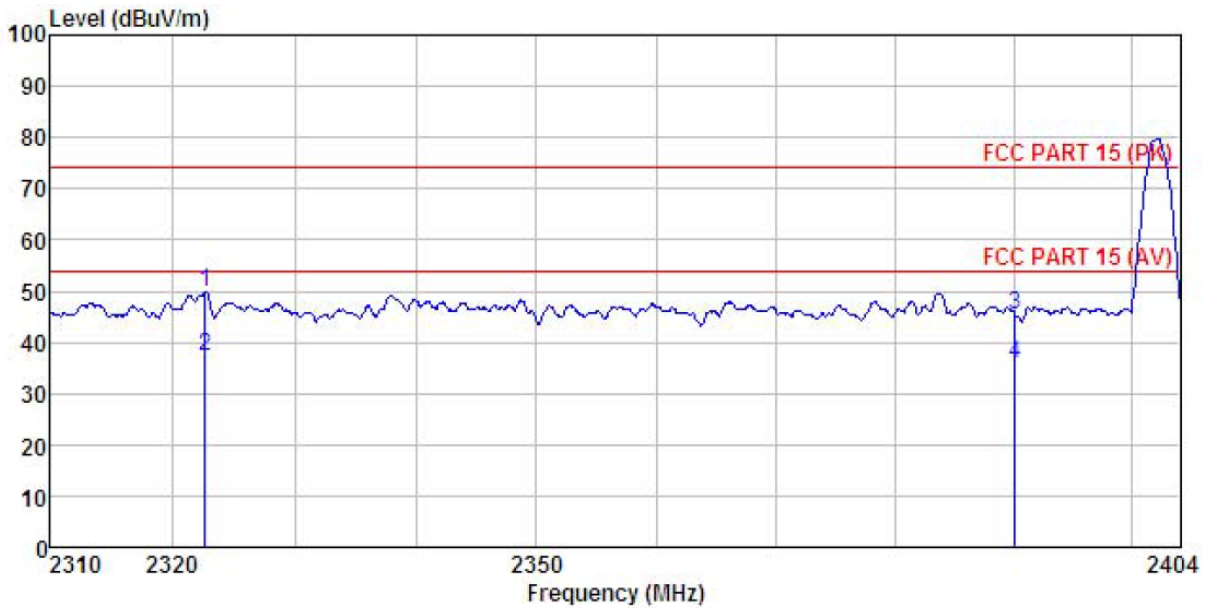


```

Site       : 3m chamber
Condition  : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT       : Mobile phone
Model     : AKARU A5 QL
Test mode : 3DH1-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: YT
REMARK    :
    
```

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2341.821	19.93	23.67	4.64	0.00	48.24	74.00	-25.76	Peak
2	2341.821	8.78	23.67	4.64	0.00	37.09	54.00	-16.91	Average
3	2390.000	15.15	23.68	4.69	0.00	43.52	74.00	-30.48	Peak
4	2390.000	7.59	23.68	4.69	0.00	35.96	54.00	-18.04	Average

Vertical:

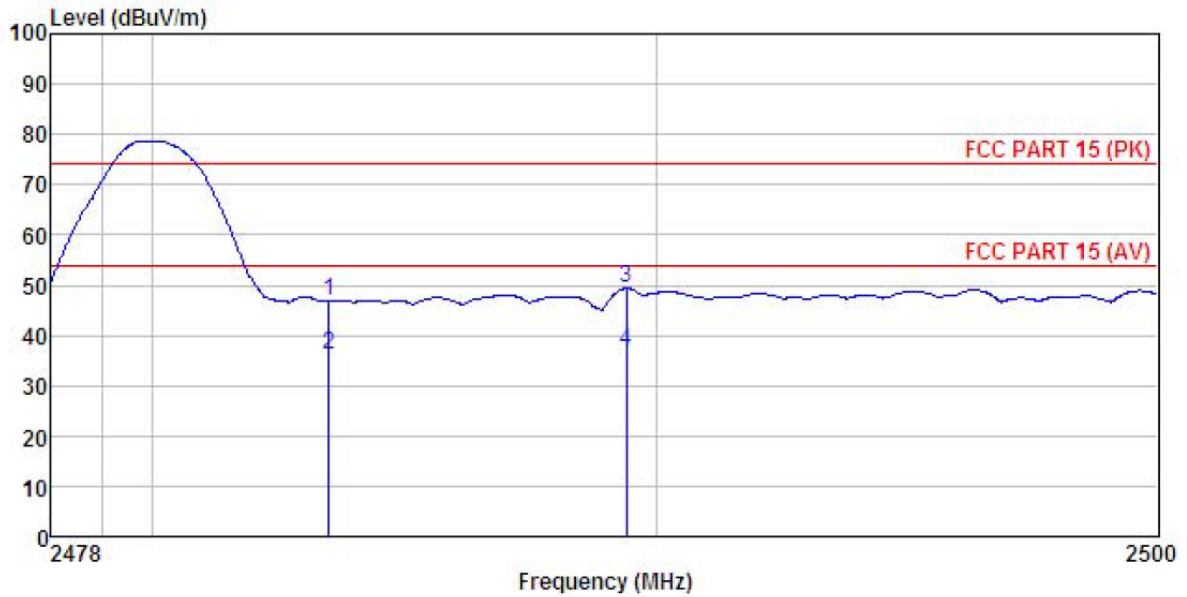


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : 3DH1-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2322.657	21.49	23.67	4.63	0.00	49.79	74.00	-24.21	Peak
2	2322.657	8.96	23.67	4.63	0.00	37.26	54.00	-16.74	Average
3	2390.000	17.17	23.68	4.69	0.00	45.54	74.00	-28.46	Peak
4	2390.000	7.59	23.68	4.69	0.00	35.96	54.00	-18.04	Average

Test channel: Highest

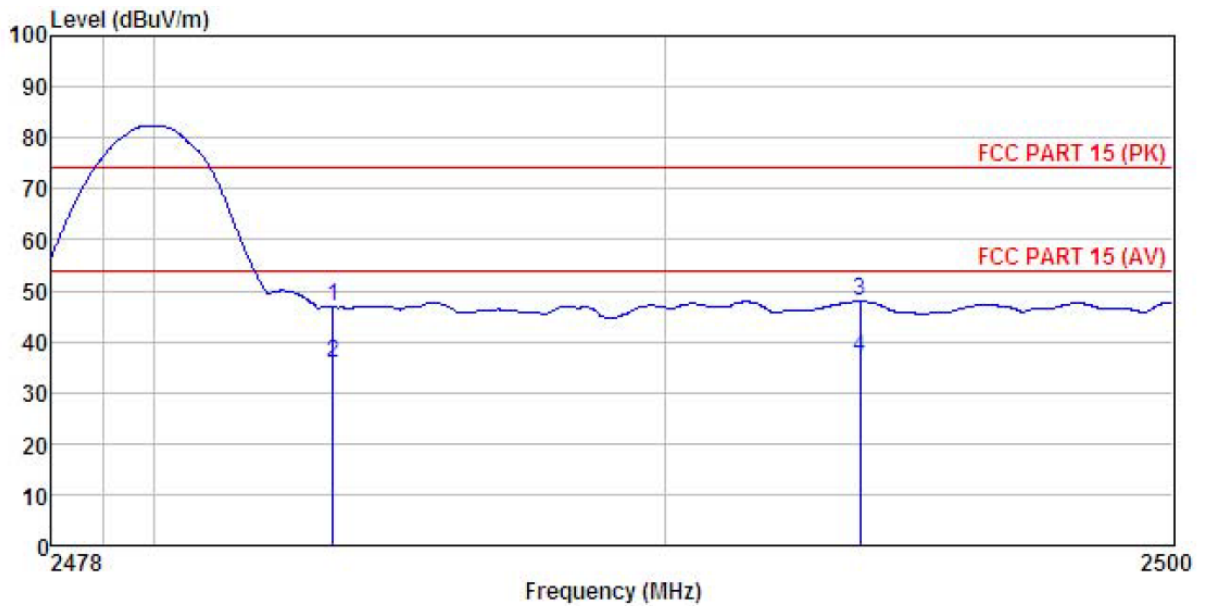
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : 3DH1-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YI
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	18.45	23.70	4.81	0.00	46.96	74.00 -27.04 Peak
2	2483.500	7.48	23.70	4.81	0.00	35.99	54.00 -18.01 Average
3	2489.416	20.87	23.70	4.82	0.00	49.39	74.00 -24.61 Peak
4	2489.416	8.23	23.70	4.82	0.00	36.75	54.00 -17.25 Average

Vertical:

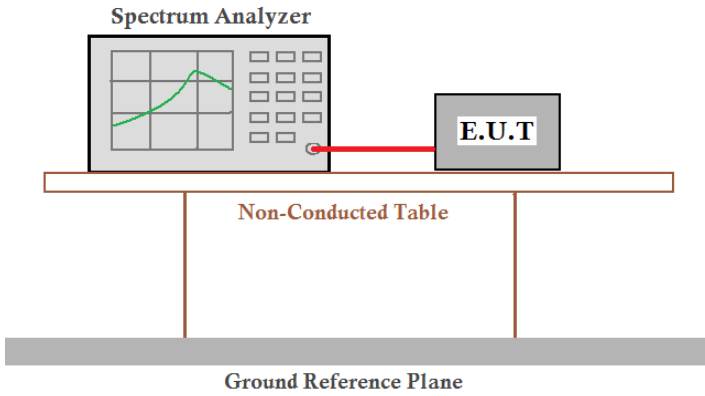


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : 3DH1-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

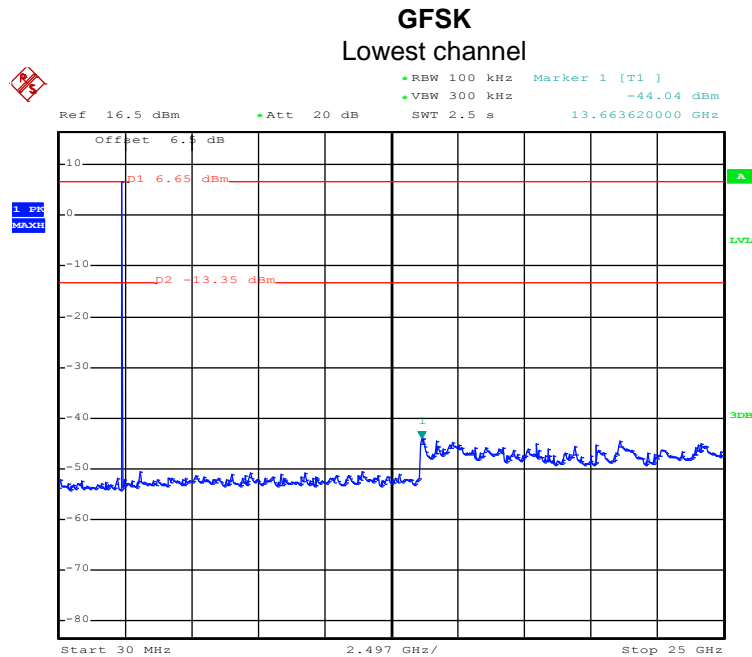
	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	18.21	23.70	4.81	0.00	46.72	74.00	-27.28	Peak
2	2483.500	7.23	23.70	4.81	0.00	35.74	54.00	-18.26	Average
3	2493.843	19.37	23.70	4.82	0.00	47.89	74.00	-26.11	Peak
4	2493.843	8.43	23.70	4.82	0.00	36.95	54.00	-17.05	Average

6.10 Spurious Emission

6.10.1 Conducted Emission Method

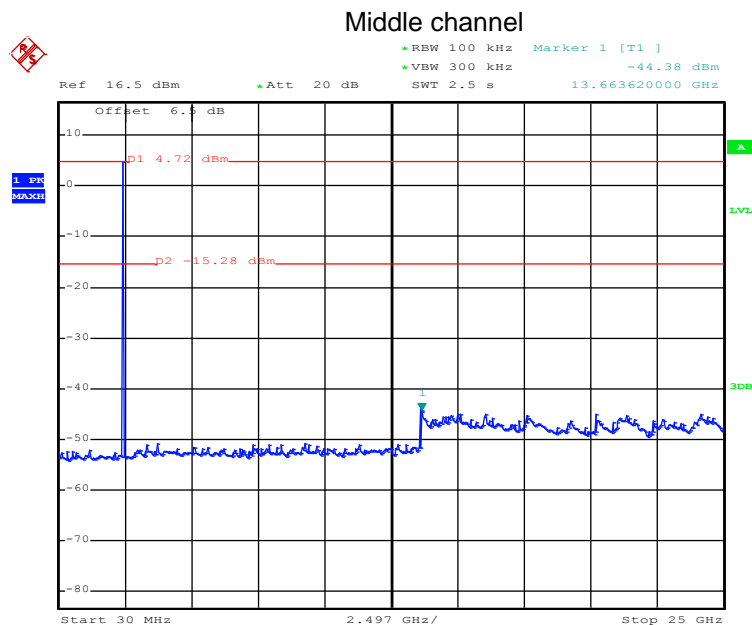
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Test plot as follows:



Date: 13.JAN.2017 16:08:09

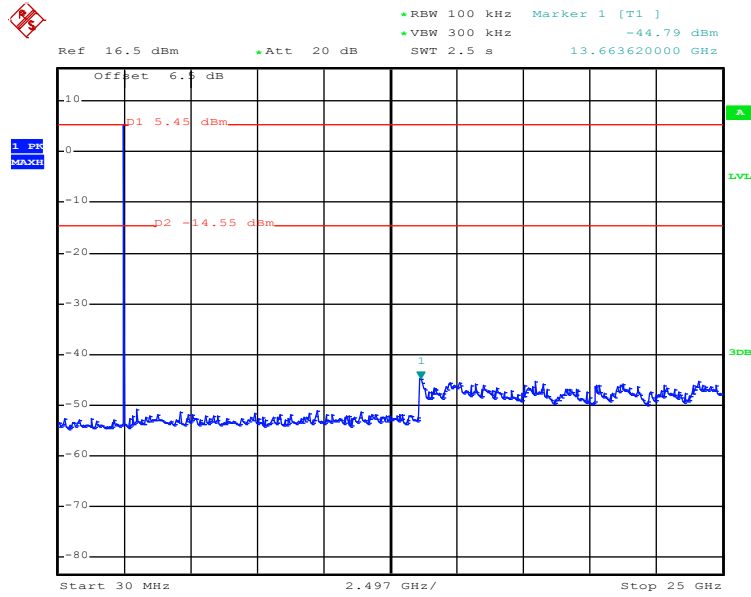
30MHz~25GHz



Date: 13.JAN.2017 16:08:58

30MHz~25GHz

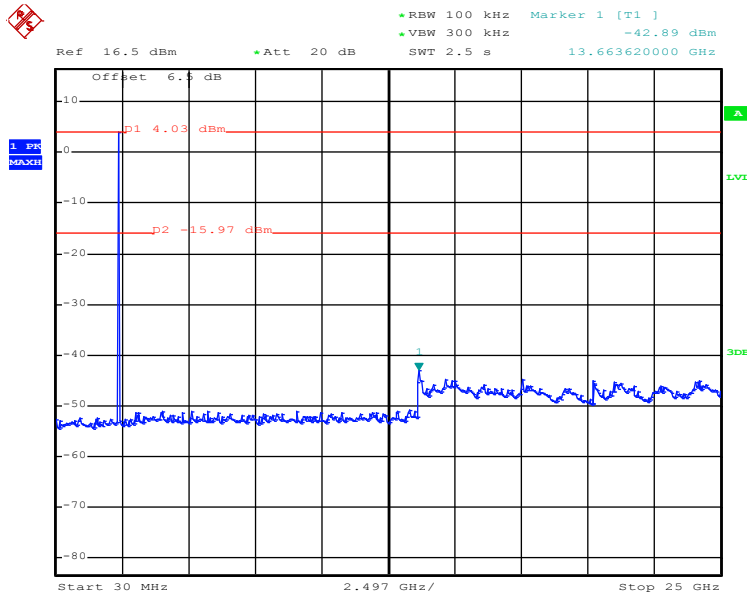
Highest channel



Date: 13.JAN.2017 16:09:21

30MHz~25GHz

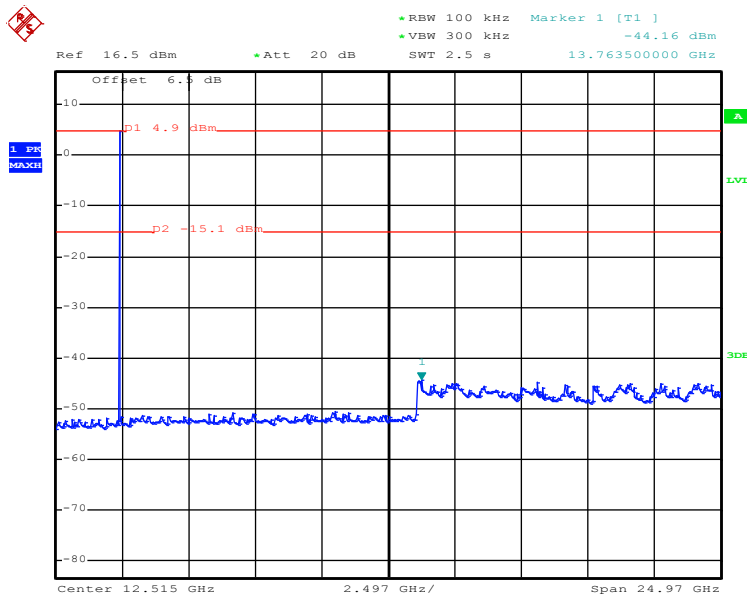
$\pi/4$ -DQPSK Lowest channel



Date: 13.JAN.2017 18:48:46

30MHz~25GHz

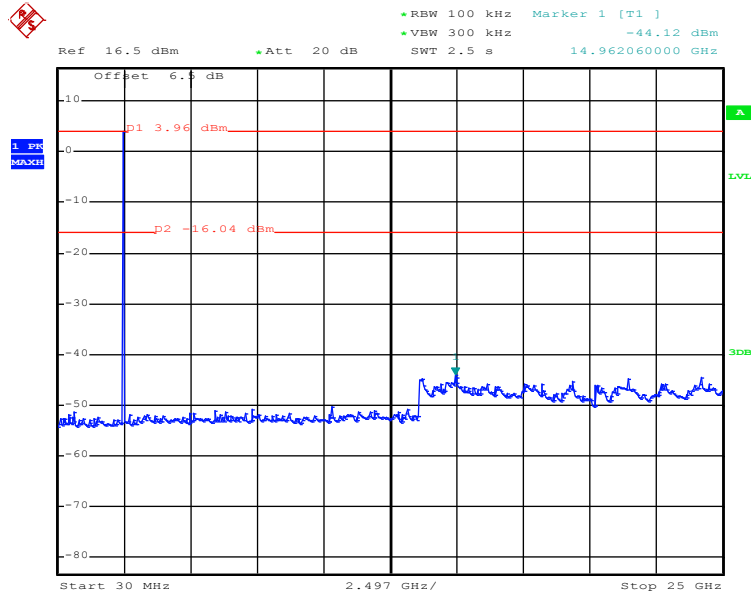
Middle channel



Date: 13.JAN.2017 16:06:03

30MHz~25GHz

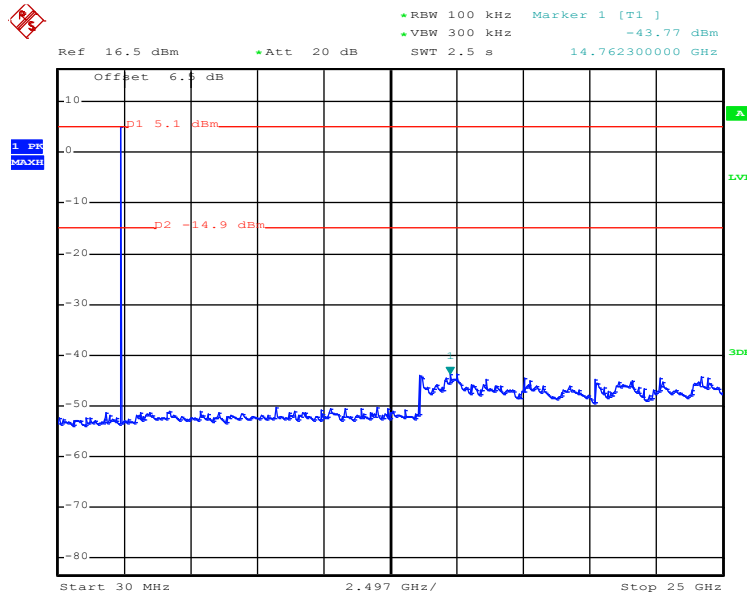
Highest channel



Date: 13.JAN.2017 18:49:27

30MHz~25GHz

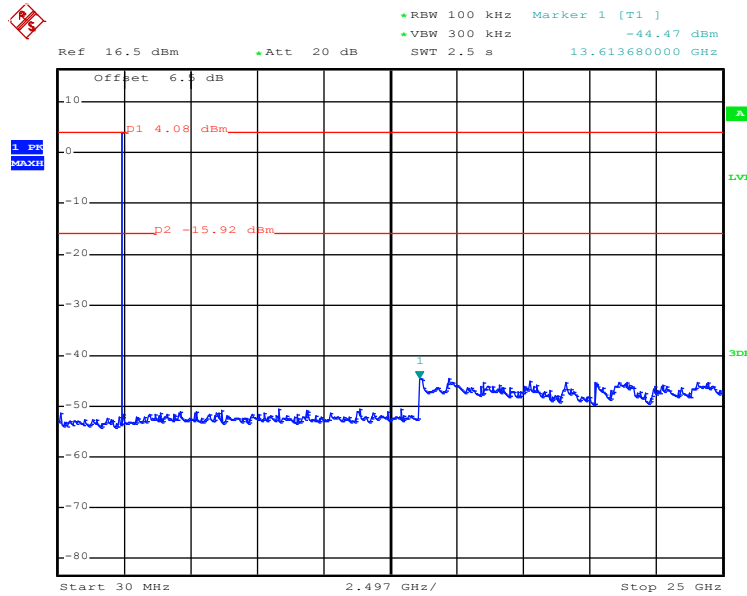
8DPSK Lowest channel



Date: 13.JAN.2017 15:47:12

30MHz~25GHz

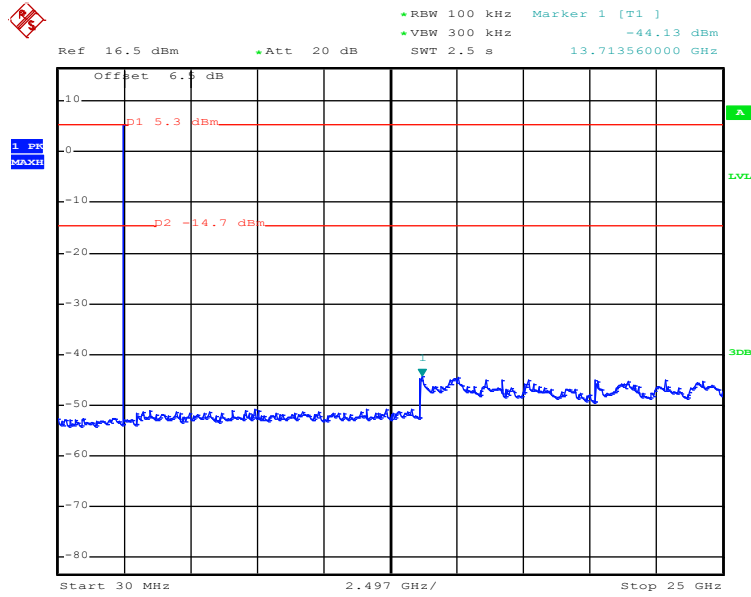
Middle channel



Date: 13.JAN.2017 15:48:18

30MHz~25GHz

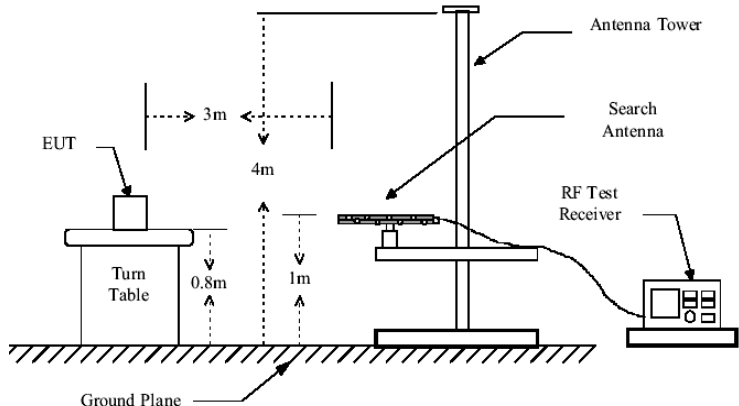
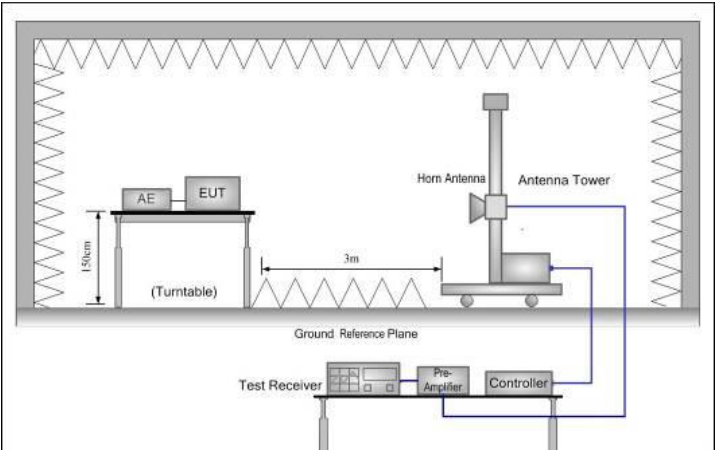
Highest channel



Date: 13.JAN.2017 15:49:28

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:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 				

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

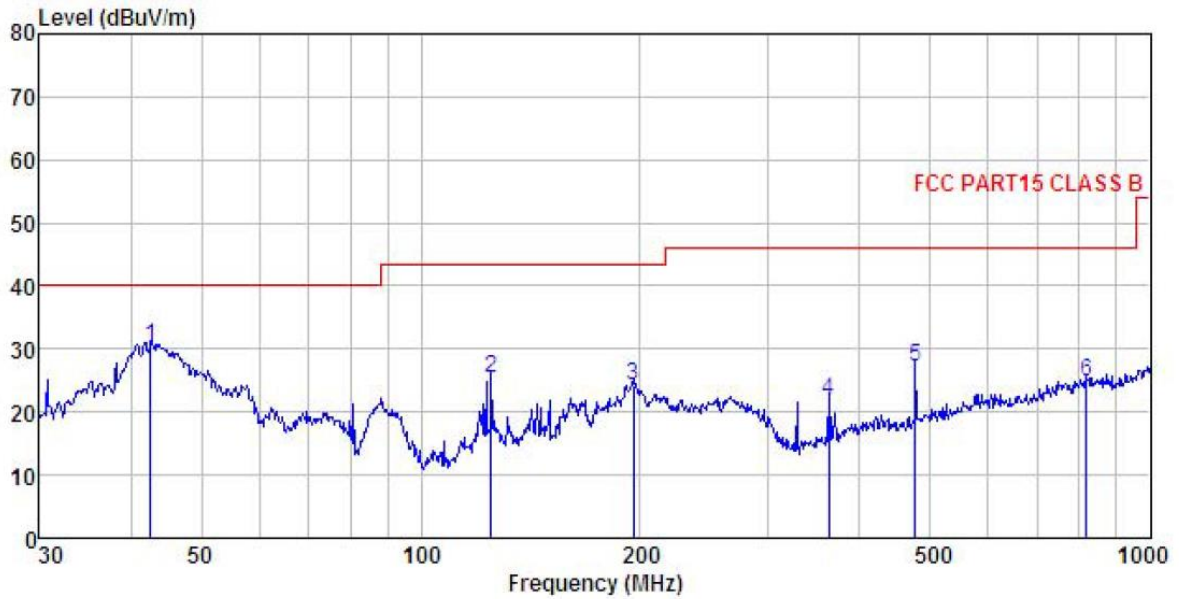
Remark:

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:

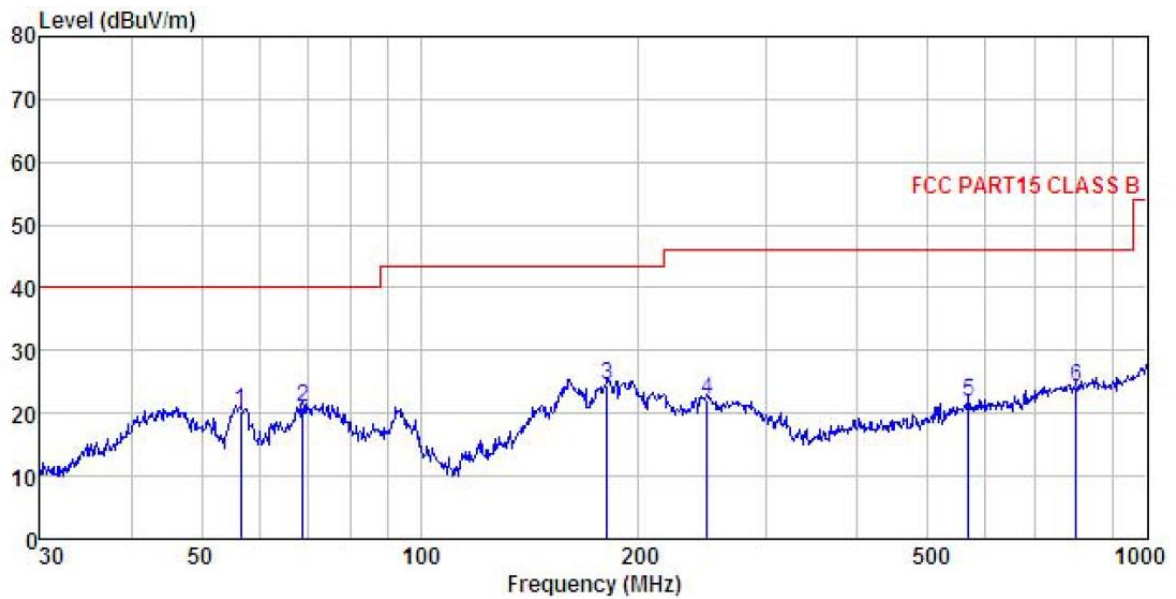


```

Site       : 3m chamber
Condition  : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL
EUT        : Mobile phone
Model      : AKARU A5 QL
Test mode  : BT mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Humi:55% 101KPa
Test Engineer: YT
REMARK     :
    
```

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.600	41.65	17.32	1.25	29.88	30.34	40.00	-9.66	QP
2	125.007	40.53	12.06	2.22	29.36	25.45	43.50	-18.05	QP
3	195.822	40.36	9.97	2.84	28.86	24.31	43.50	-19.19	QP
4	362.985	32.81	14.60	3.09	28.62	21.88	46.00	-24.12	QP
5	477.169	36.02	16.54	3.42	28.92	27.06	46.00	-18.94	QP
6	818.834	27.89	20.75	4.29	28.12	24.81	46.00	-21.19	QP

Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL
 EUT : Mobile phone
 Model : AKARU A5 QL
 Test mode : BT mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	56.593	36.89	11.84	1.36	29.79	20.30	40.00	-19.70	QP
2	68.872	41.93	7.20	1.49	29.73	20.89	40.00	-19.11	QP
3	180.649	41.38	9.24	2.73	28.97	24.38	43.50	-19.12	QP
4	248.552	35.91	11.89	2.81	28.55	22.06	46.00	-23.94	QP
5	568.613	28.58	18.25	3.91	29.04	21.70	46.00	-24.30	QP
6	798.980	27.50	20.60	4.35	28.20	24.25	46.00	-21.75	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	49.01	35.99	6.80	41.81	49.99	74.00	-24.01	Vertical
4804.00	47.40	35.99	6.80	41.81	48.38	74.00	-25.62	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	39.67	35.99	6.80	41.81	40.65	54.00	-13.35	Vertical
4804.00	37.54	35.99	6.80	41.81	38.52	54.00	-15.48	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	47.69	36.38	6.86	41.84	49.09	74.00	-24.91	Vertical
4882.00	37.59	36.38	6.86	41.84	38.99	74.00	-35.01	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	36.58	36.38	6.86	41.84	37.98	54.00	-16.02	Vertical
4882.00	37.59	36.38	6.86	41.84	38.99	54.00	-15.01	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	47.52	36.71	6.91	41.87	49.27	74.00	-24.73	Vertical
4960.00	46.69	36.71	6.91	41.87	48.44	74.00	-25.56	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	37.85	36.71	6.91	41.87	39.60	54.00	-14.40	Vertical
4960.00	36.29	36.71	6.91	41.87	38.04	54.00	-15.96	Horizontal

Remark:

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