

6.8 Pseudorandom Frequency Hopping Sequence

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

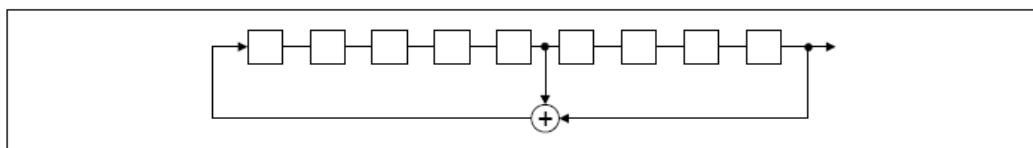
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

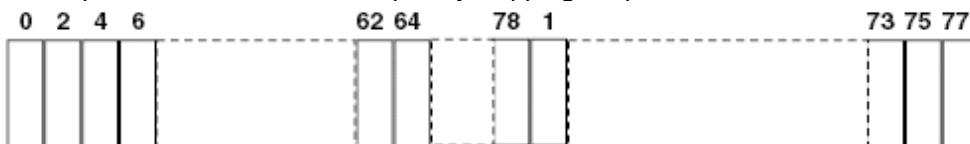
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

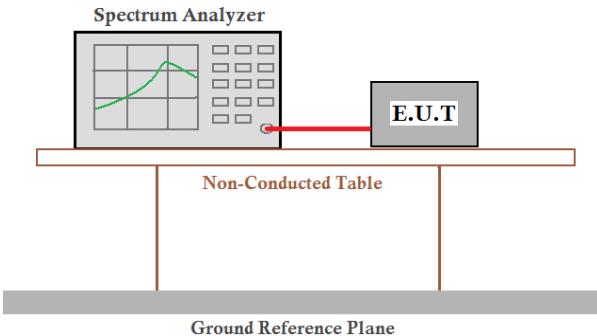


Each frequency used equally on the average by each transmitter.

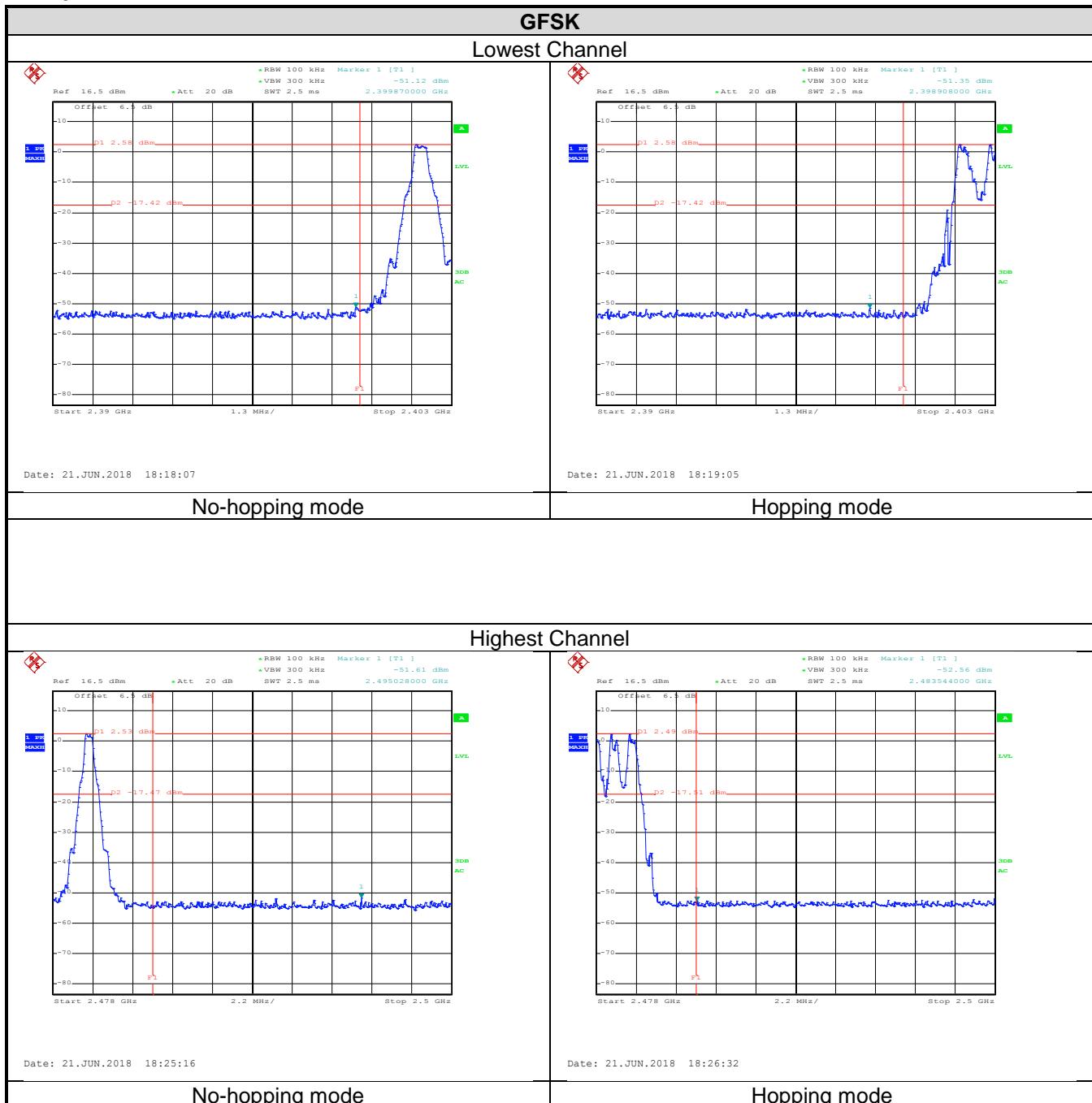
The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

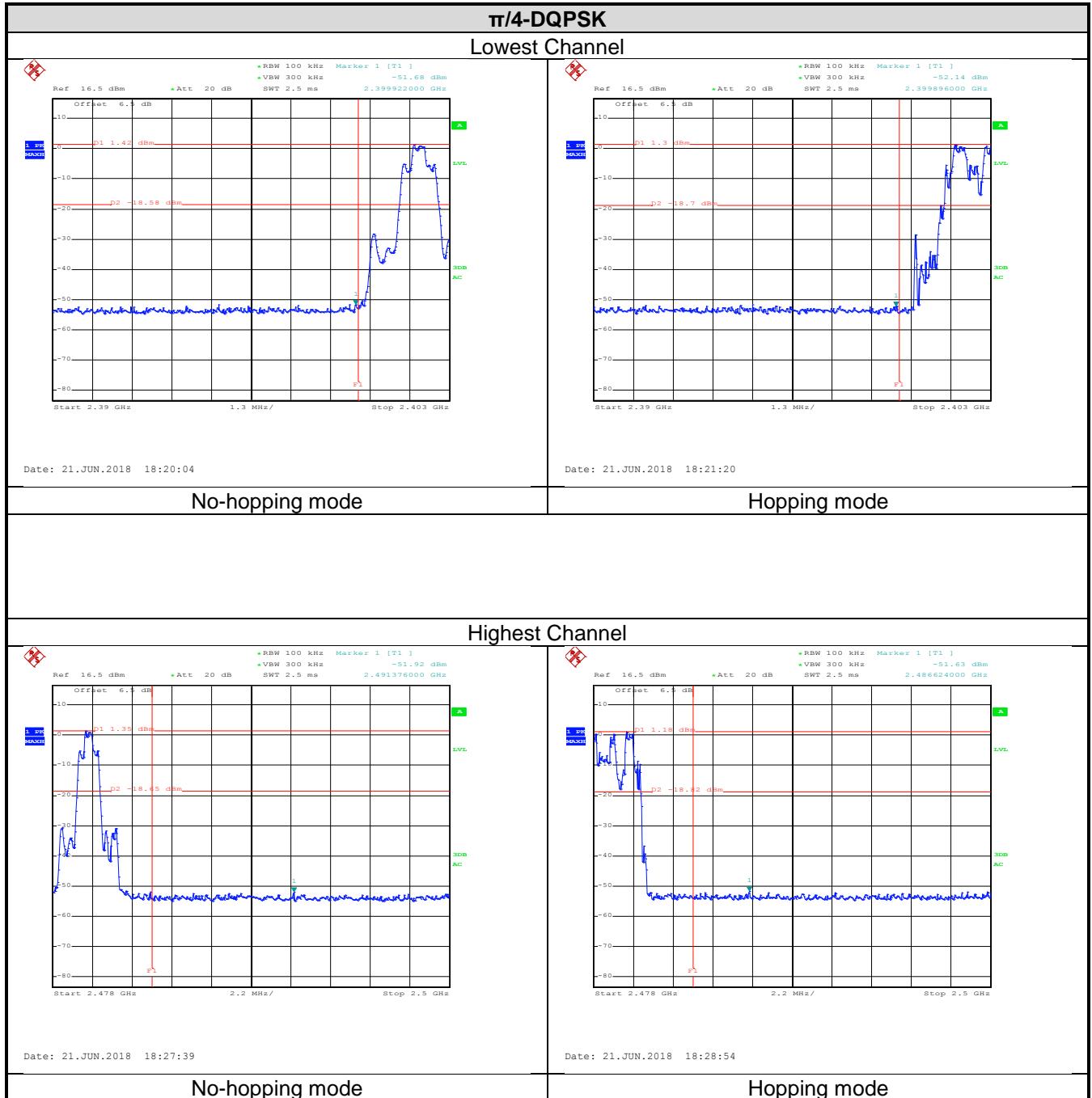
6.9 Band Edge

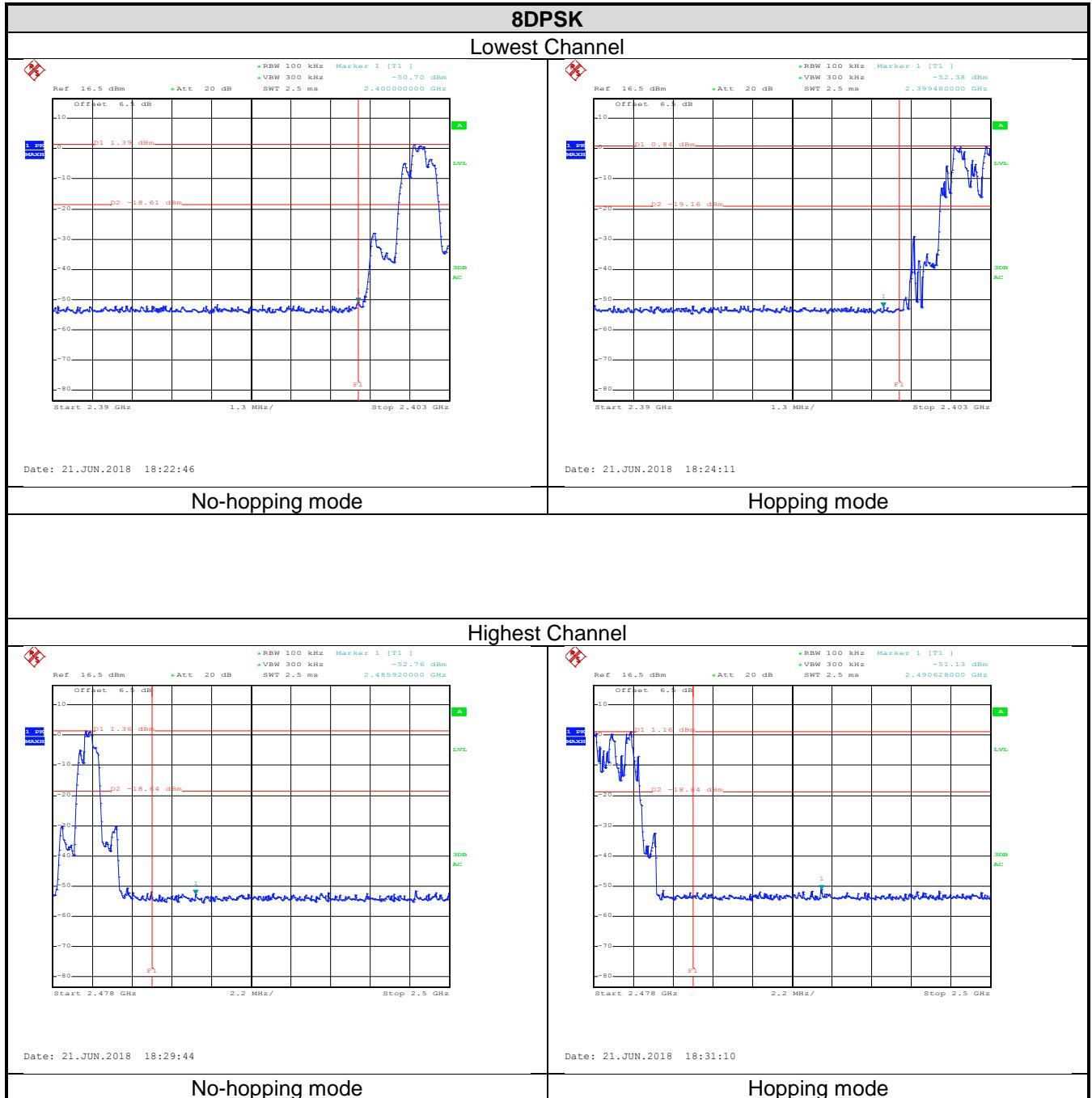
6.9.1 Conducted Emission Method

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:	 <p>The diagram illustrates the test setup for conducted emission. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a coaxial cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass

Test plot as follows:





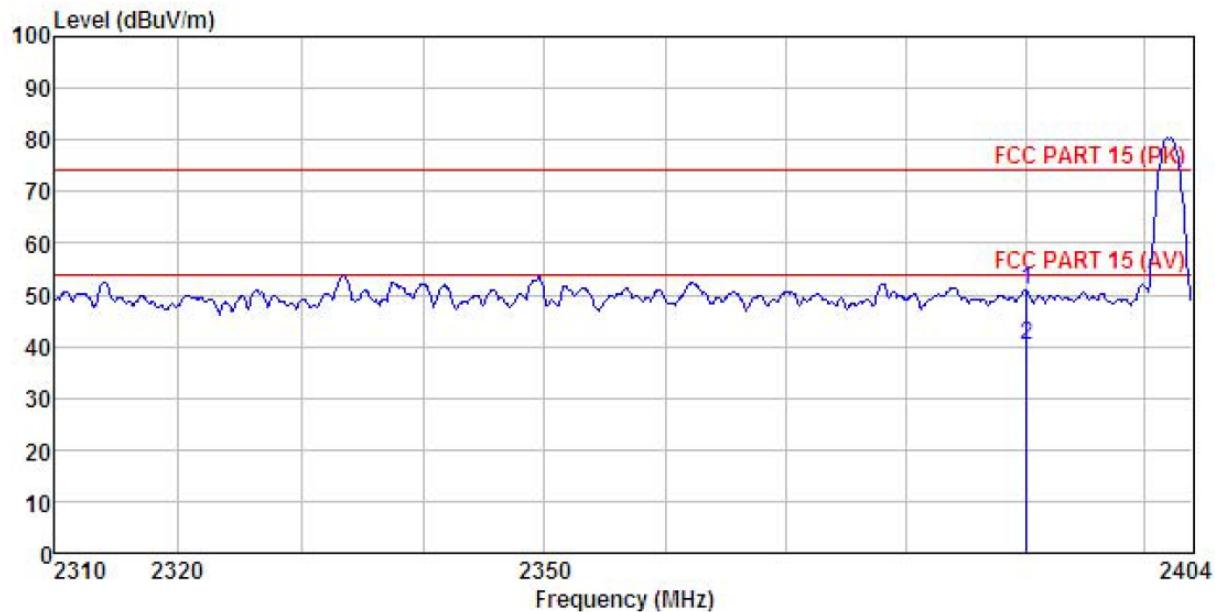


6.9.2 Radiated Emission Method

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 Distance:	3m										
Receiver setup:	Frequency	Detector	RBW	VBW	Remark						
	Above 1GHz	Peak	1MHz	3MHz	Peak Value						
Limit:	Frequency	Limit (dBuV/m @3m)		Remark							
	Above 1GHz	54.00		Average 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 5.8 for details										
Test mode:	Non-hopping mode										
Test results:	Passed										

GFSK mode**Test channel: Lowest channel**

Test Polarization: Horizontal



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : DH1-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: YT
 REMARK :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark	
	Level	Factor	Loss	Level	Line		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2390.000	18.89	27.37	4.69	0.00	50.95	74.00	-23.05 Peak
2 2390.000	8.13	27.37	4.69	0.00	40.19	54.00	-13.81 Average

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.

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5501L
Test mode : DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: YT
REMARK :

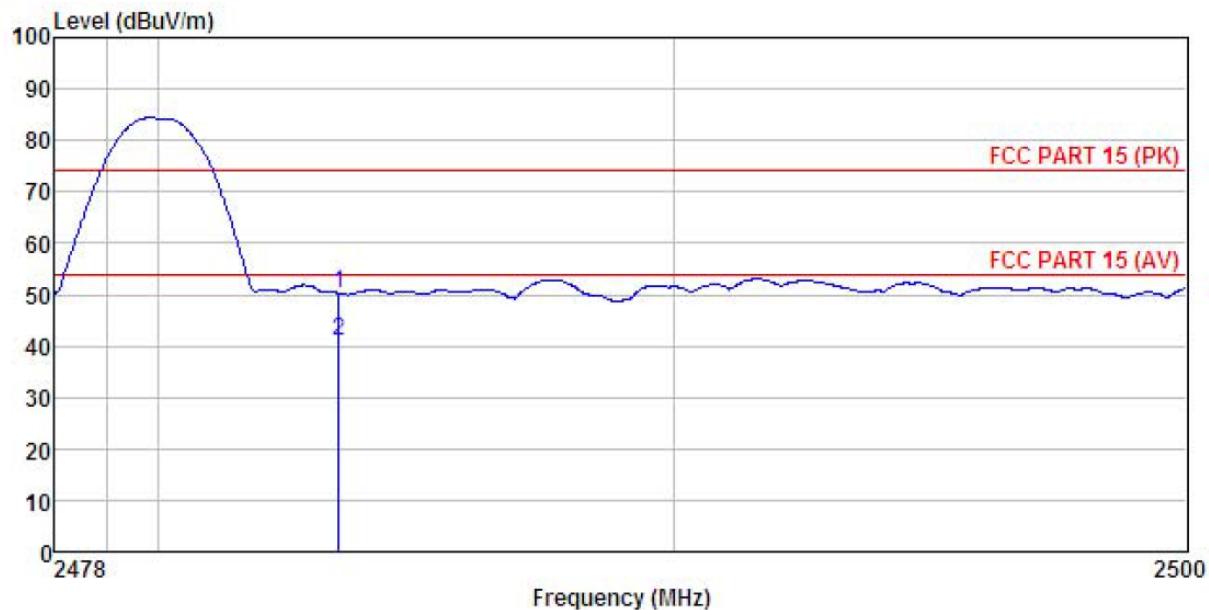
Freq	ReadAntenna	Cable	Preampl	Limit	Over	Remark
	Level	Factor	Loss	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2390.000	16.67	27.37	4.69	0.00	48.73 74.00 -25.27 Peak
2	2390.000	8.44	27.37	4.69	0.00	40.50 54.00 -13.50 Average

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.

Test channel: Highest channel

Test Polarization: Horizontal



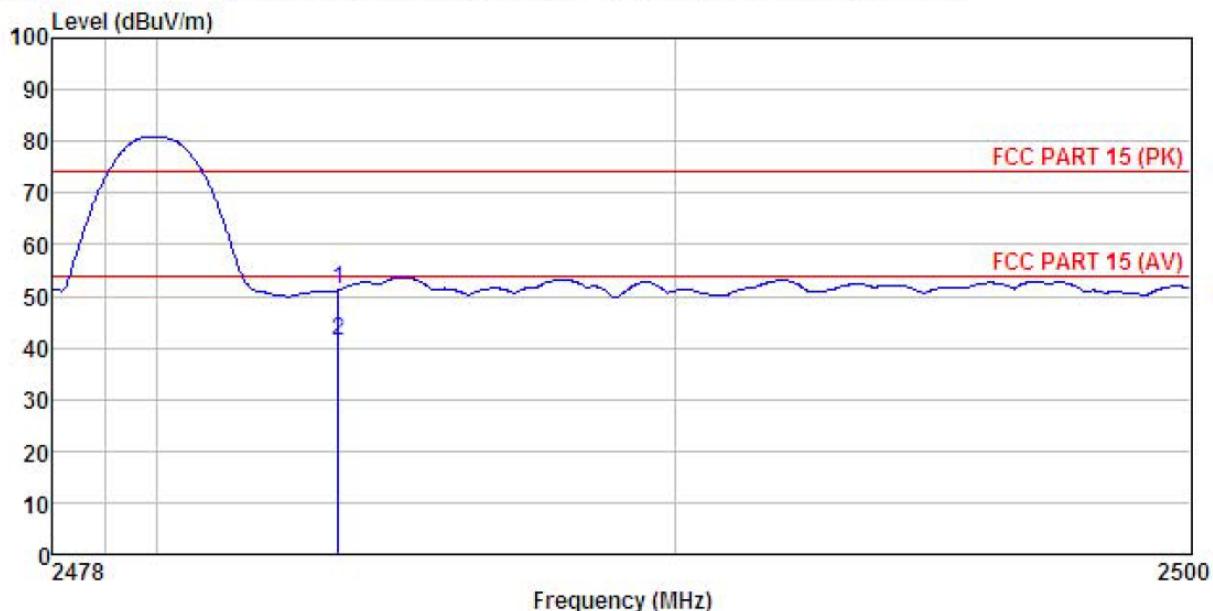
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : DH1-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: YT
 REMARK :

Freq	Read	Antenna	Cable	Preampl	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	
1	2483.500	17.70	27.57	4.81	0.00	50.08	74.00 -23.92 Peak
2	2483.500	8.53	27.57	4.81	0.00	40.91	54.00 -13.09 Average

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.

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5501L
Test mode : DH1-H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: YT
REMARK :

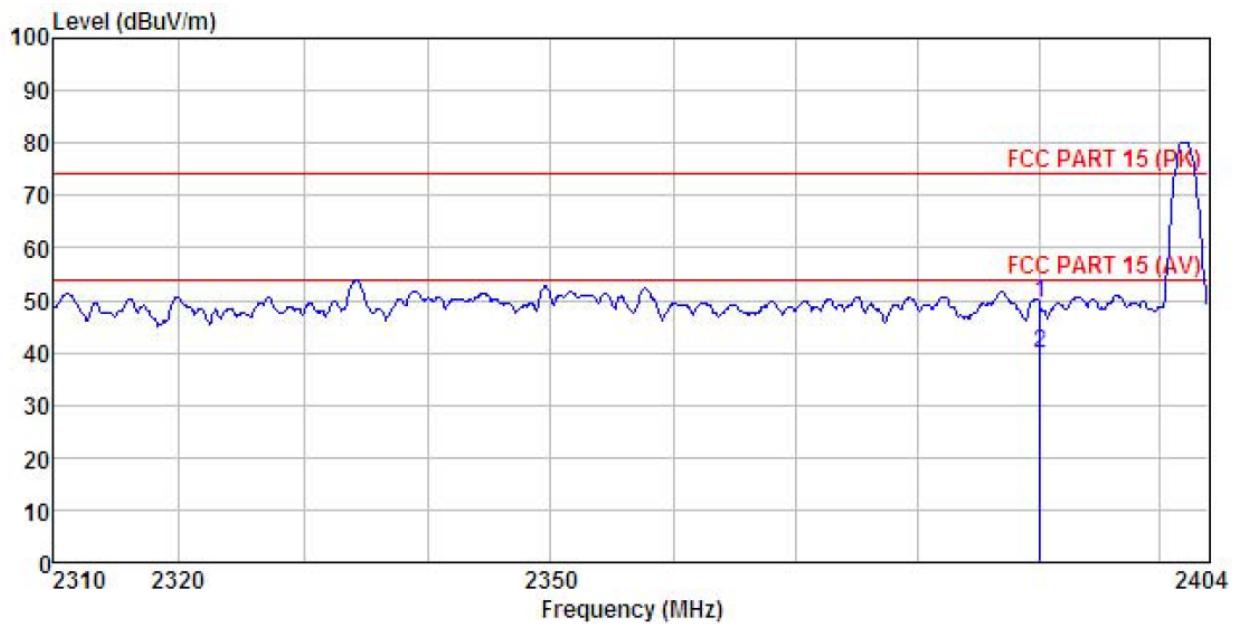
Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Level	Limit	Over Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	18.96	27.57	4.81	0.00	51.34	74.00	-22.66 Peak
2	2483.500	8.95	27.57	4.81	0.00	41.33	54.00	-12.67 Average

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.

$\pi/4$ -DQPSK mode**Test channel: Lowest channel**

Test Polarization: Horizontal



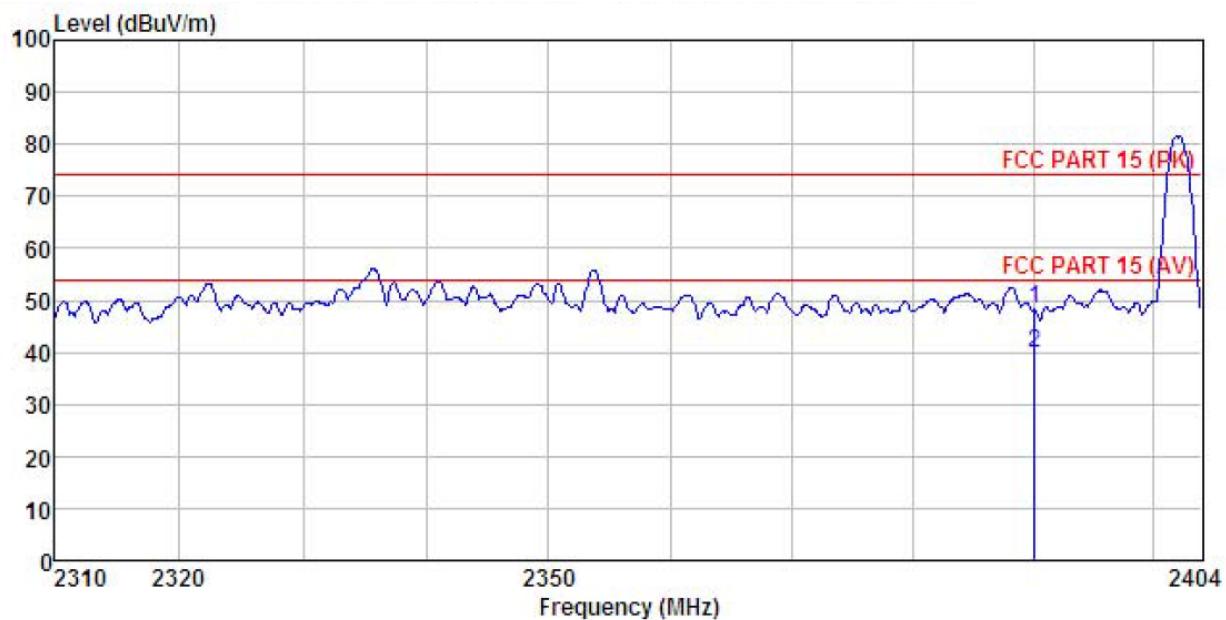
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2DH1-L Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: YT
 REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	
1	2390.000	17.37	27.37	4.69	0.00	49.43	74.00 -24.57 Peak
2	2390.000	7.83	27.37	4.69	0.00	39.89	54.00 -14.11 Average

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.

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5501L
Test mode : 2DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: YT
REMARK :

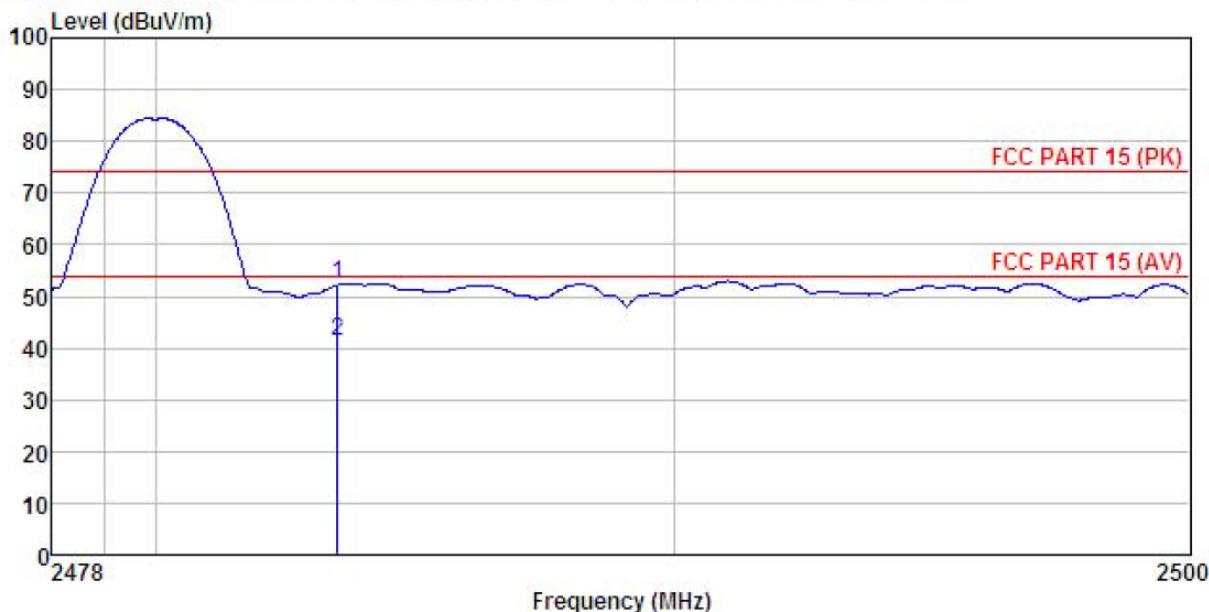
Freq	ReadAntenna Level	Cable Factor	Preampl Loss	Preamp Factor	Limit Level	Line Limit	Over Line Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	16.13	27.37	4.69	0.00	48.19	74.00	-25.81 Peak
2	2390.000	7.84	27.37	4.69	0.00	39.90	54.00	-14.10 Average

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.

Test channel: Highest channel

Test Polarization: Horizontal



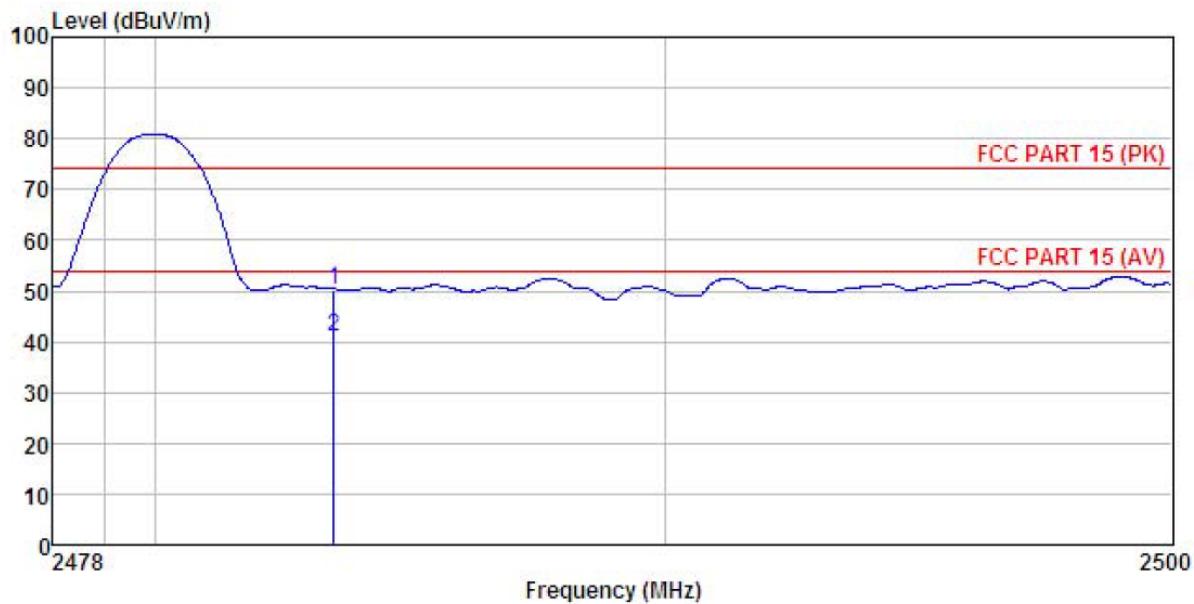
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 2DH1-H Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

	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	19.92	27.57	4.81	0.00	52.30	74.00	-21.70 Peak
2 2483.500	8.97	27.57	4.81	0.00	41.35	54.00	-12.65 Average

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.

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL

EUT : LTE mobile phone

Model : N5501L

Test mode : 2DH1-H Mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: YT

REMARK :

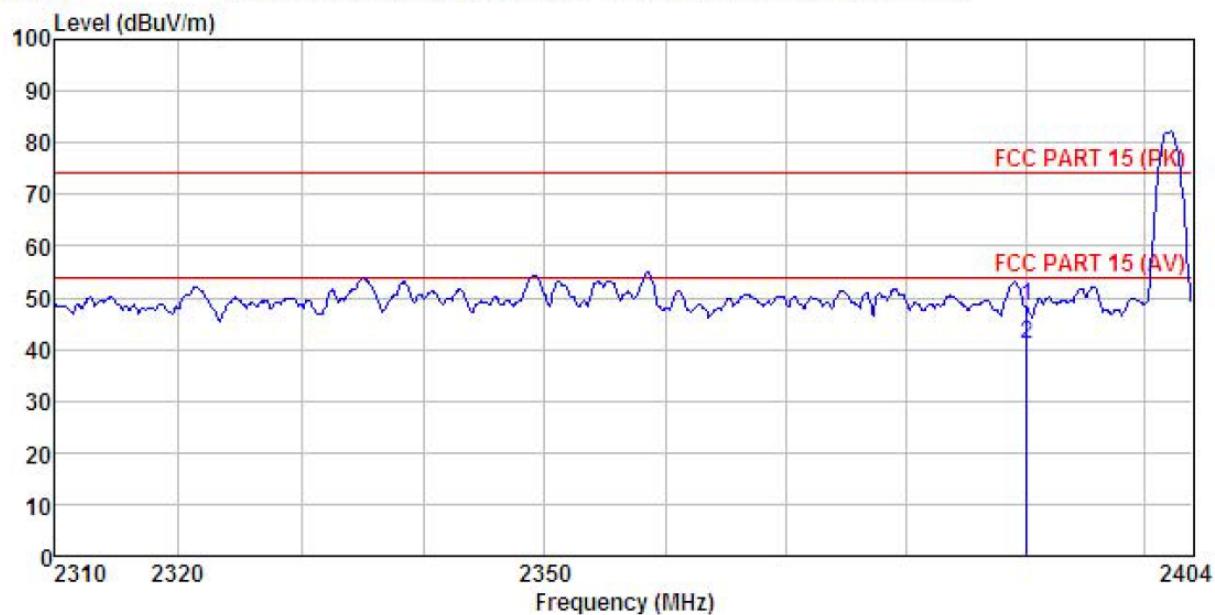
	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	17.96	27.57	4.81	0.00	50.34
2	2483.500	8.41	27.57	4.81	0.00	40.79
					74.00	-23.66
					54.00	-13.21
						Peak Average

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.

8DPSK mode**Test channel: Lowest channel**

Test Polarization: Horizontal



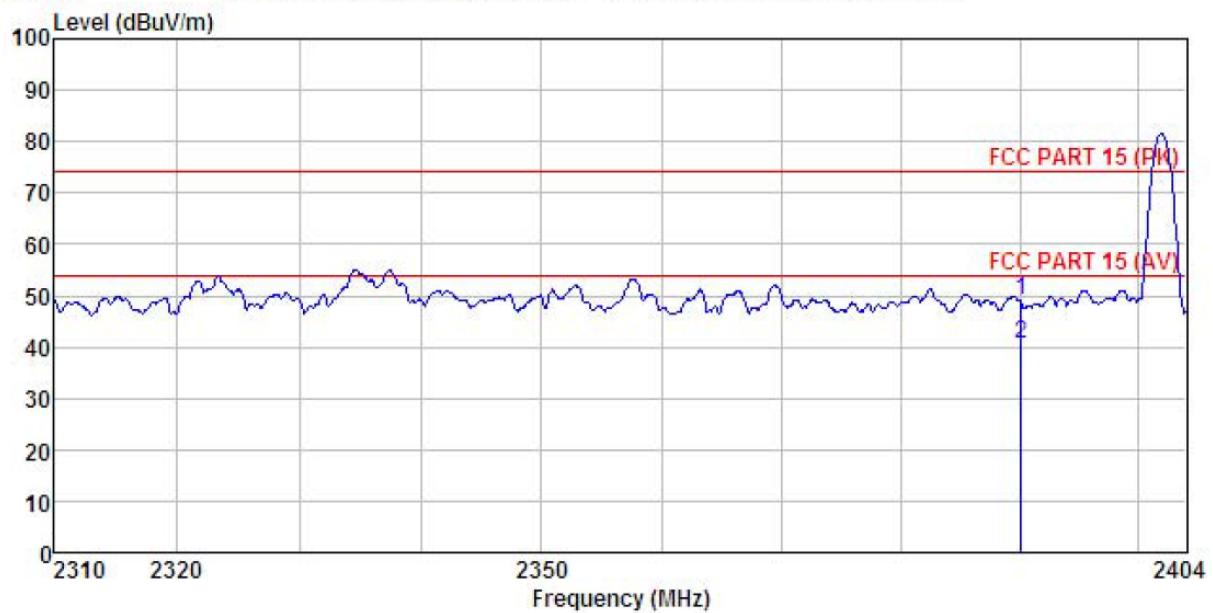
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : 3DH1-L Mode
 Power Rating : AC 120W/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: YT
 REMARK :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2390.000	16.25	27.37	4.69	0.00	48.31 74.00 -25.69 Peak
2	2390.000	8.73	27.37	4.69	0.00	40.79 54.00 -13.21 Average

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.

Test Polarization: Vertical

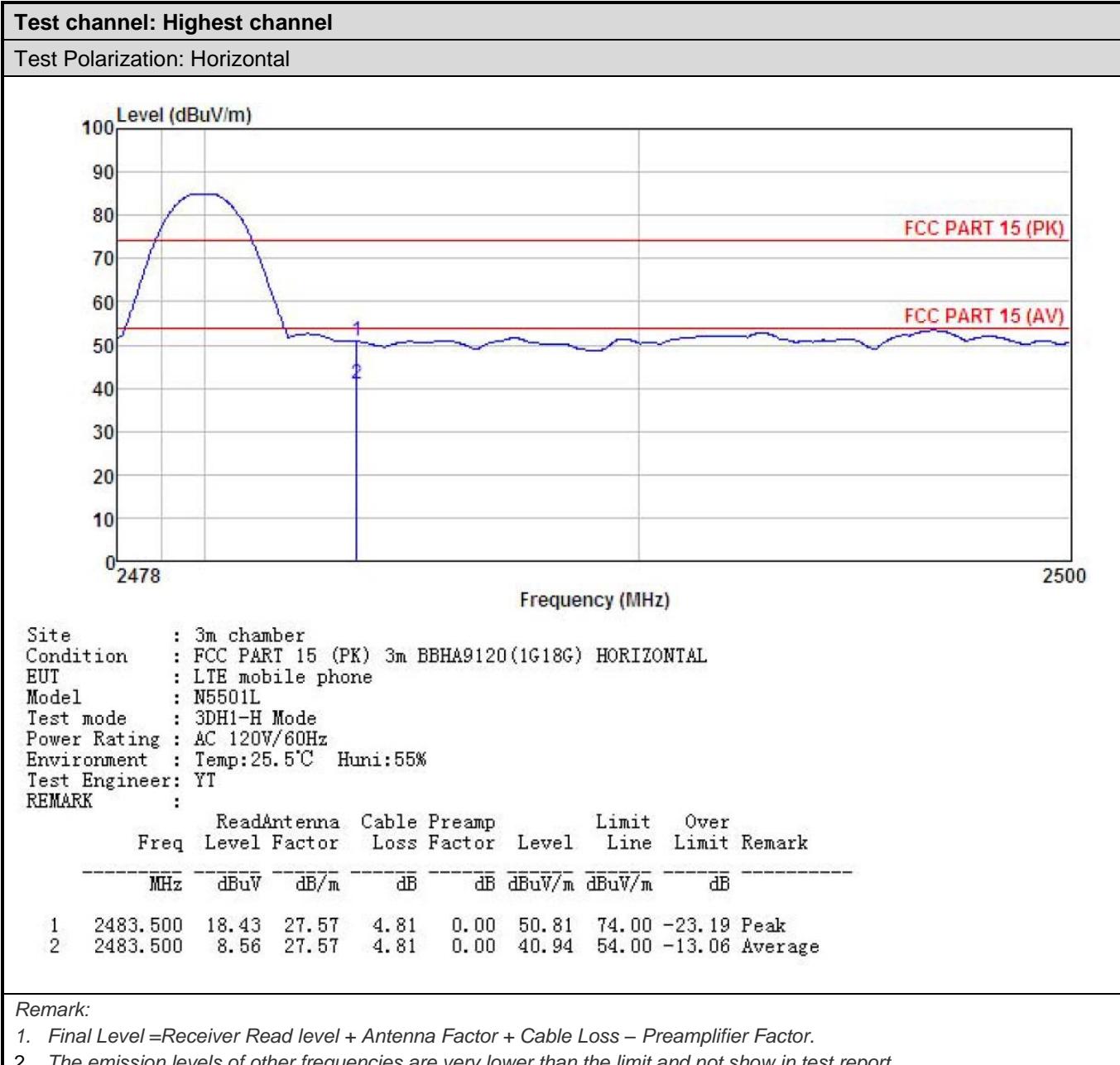


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5501L
Test mode : 3DH1-L Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: YT
REMARK :

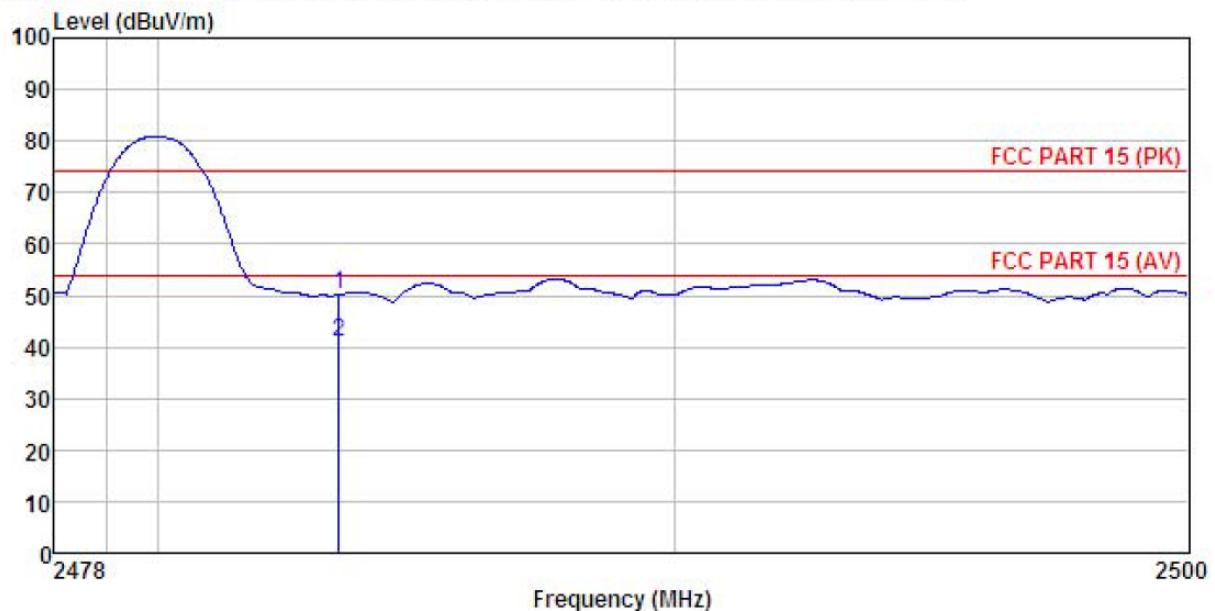
	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	16.86	27.37	4.69	0.00	48.92	74.00 -25.08 Peak
2	2390.000	8.46	27.37	4.69	0.00	40.52	54.00 -13.48 Average

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.



Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : LTE mobile phone
Model : N5501L
Test mode : 3DH1-H Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: YT
REMARK :

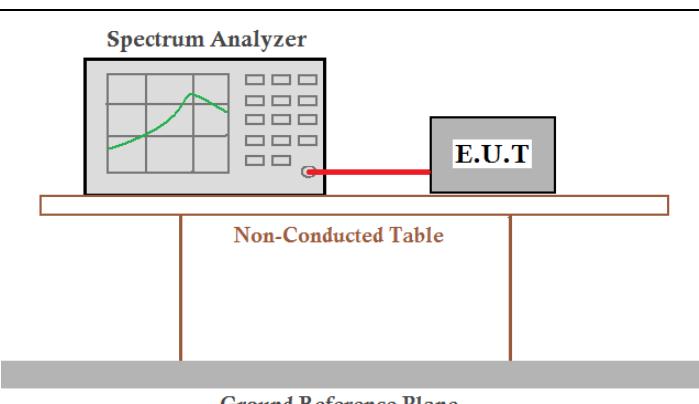
	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2483.500	17.88	27.57	4.81	0.00	50.26
2	2483.500	8.56	27.57	4.81	0.00	40.94
					74.00	-23.74 Peak
					54.00	-13.06 Average

Remark:

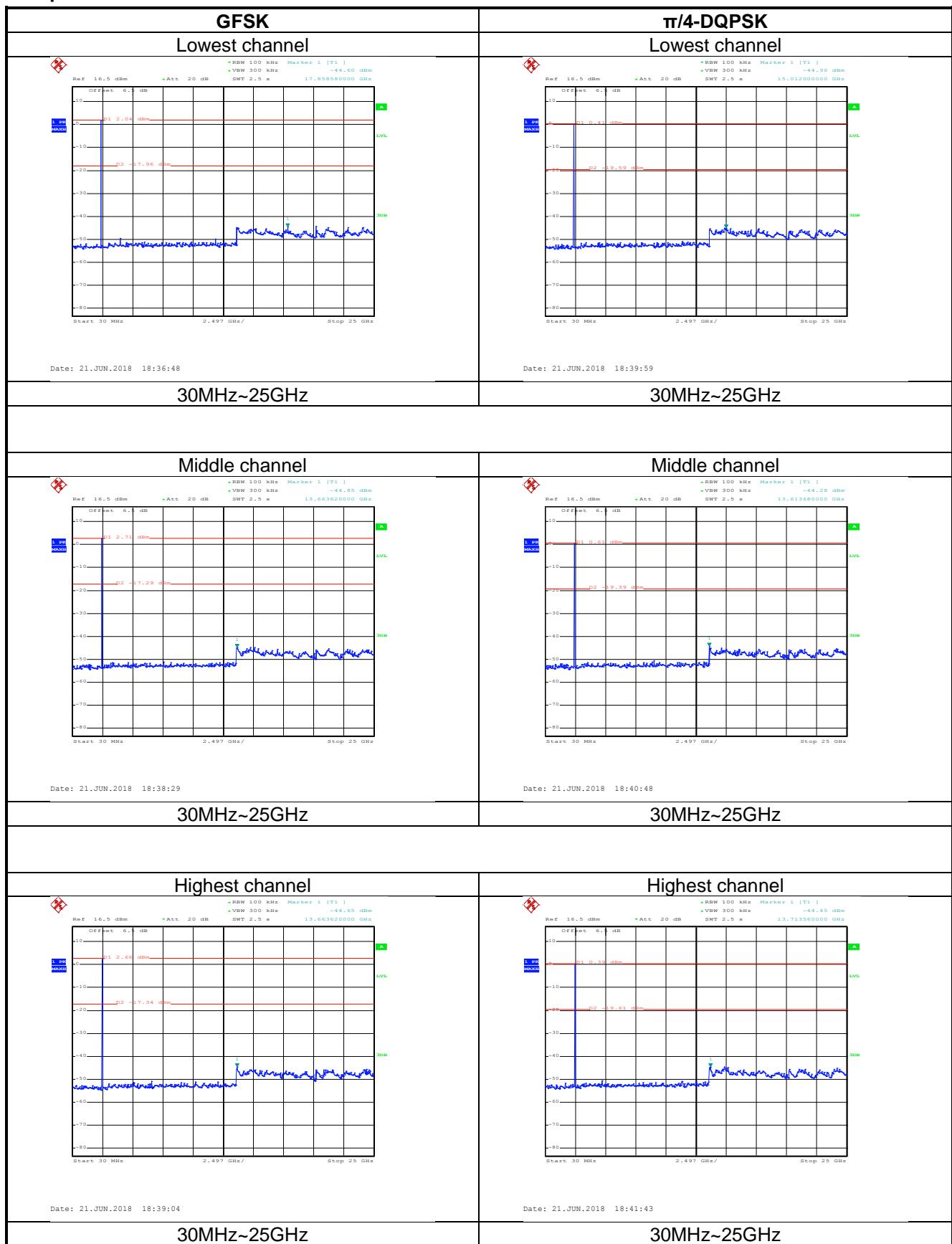
- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

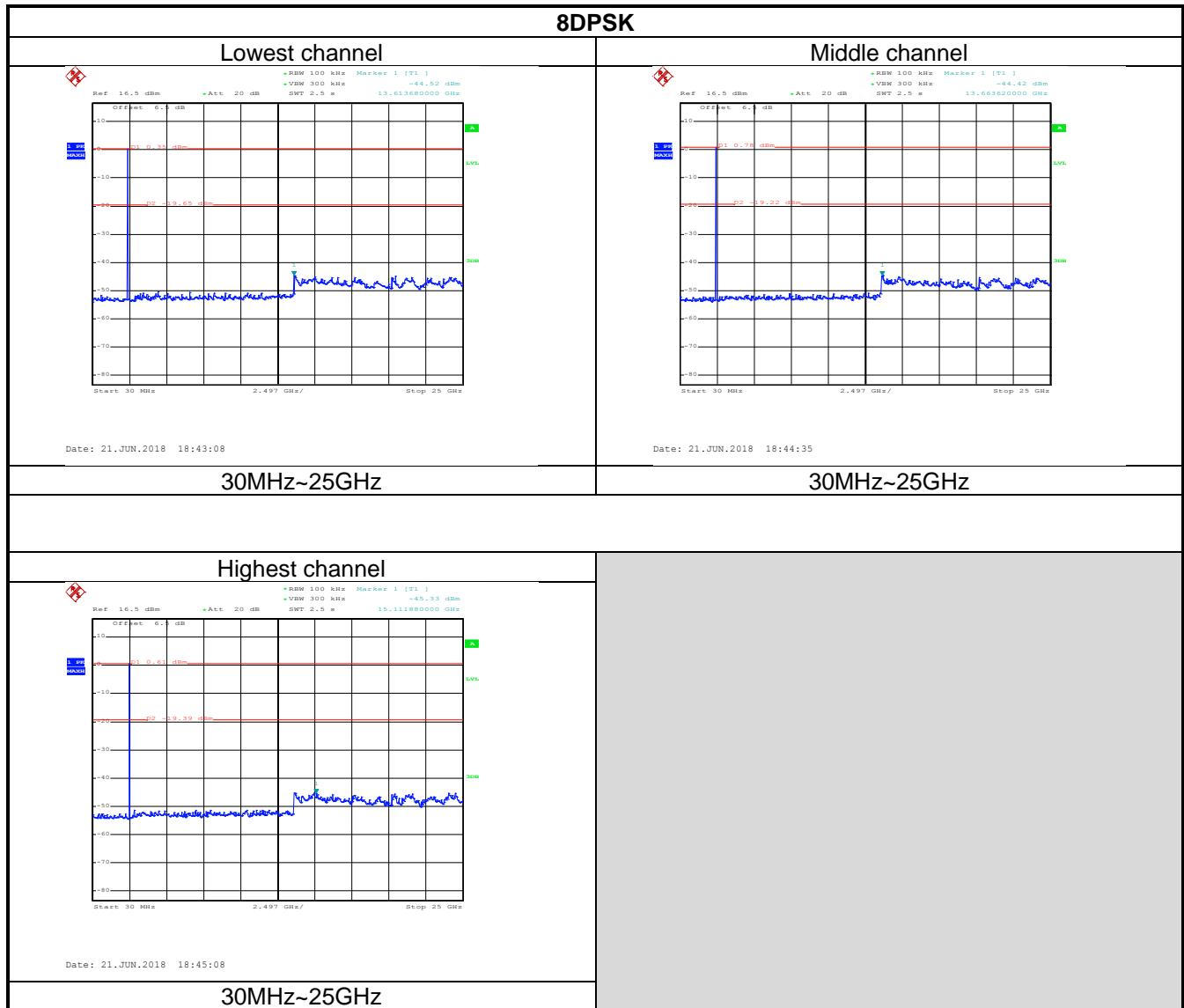
6.10 Spurious Emission

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 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass

Test plot as follows:

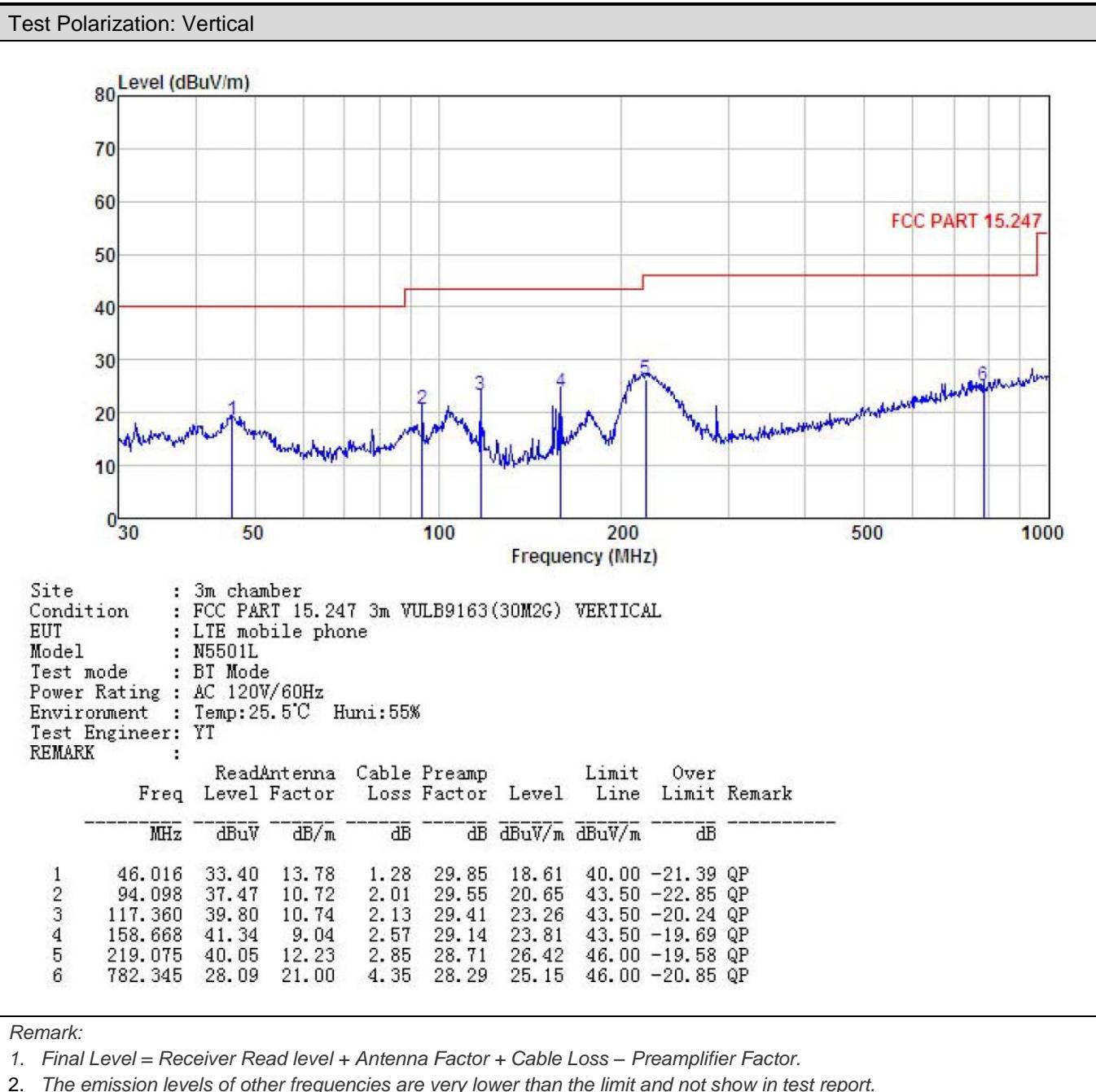




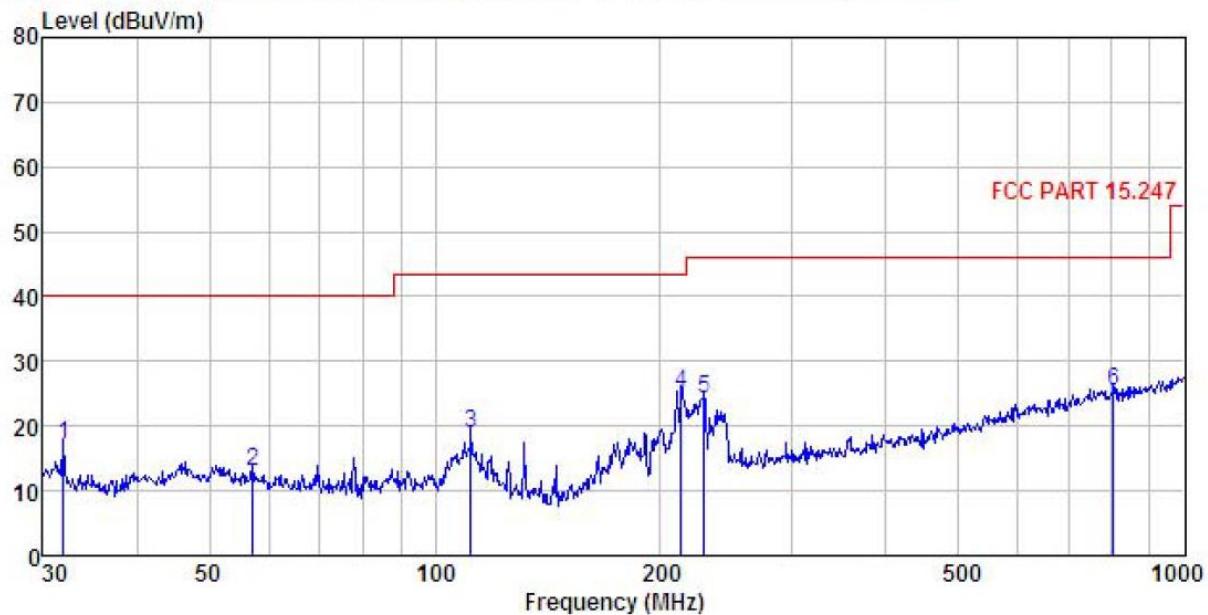
6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	9 kHz to 25 GHz								
Test 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:	<p>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</p>								

	<p>was rotated 360 degrees to determine the position of the highest radiation.</p> <ol style="list-style-type: none">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 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	<ol style="list-style-type: none">1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.2. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

Adapter (1)**Measurement Data (worst case):****Below 1GHz:**

Test Polarization: Horizontal



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BT Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: YT
 REMARK :

Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark		
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.955	35.21	11.05	0.85	29.97	17.14	40.00	-22.86 QP
2	57.191	28.61	12.85	1.37	29.79	13.04	40.00	-26.96 QP
3	111.738	34.28	11.92	2.08	29.44	18.84	43.50	-24.66 QP
4	213.015	39.03	12.01	2.85	28.75	25.14	43.50	-18.36 QP
5	228.490	37.32	12.57	2.84	28.66	24.07	46.00	-21.93 QP
6	804.603	28.14	21.03	4.33	28.18	25.32	46.00	-20.68 QP

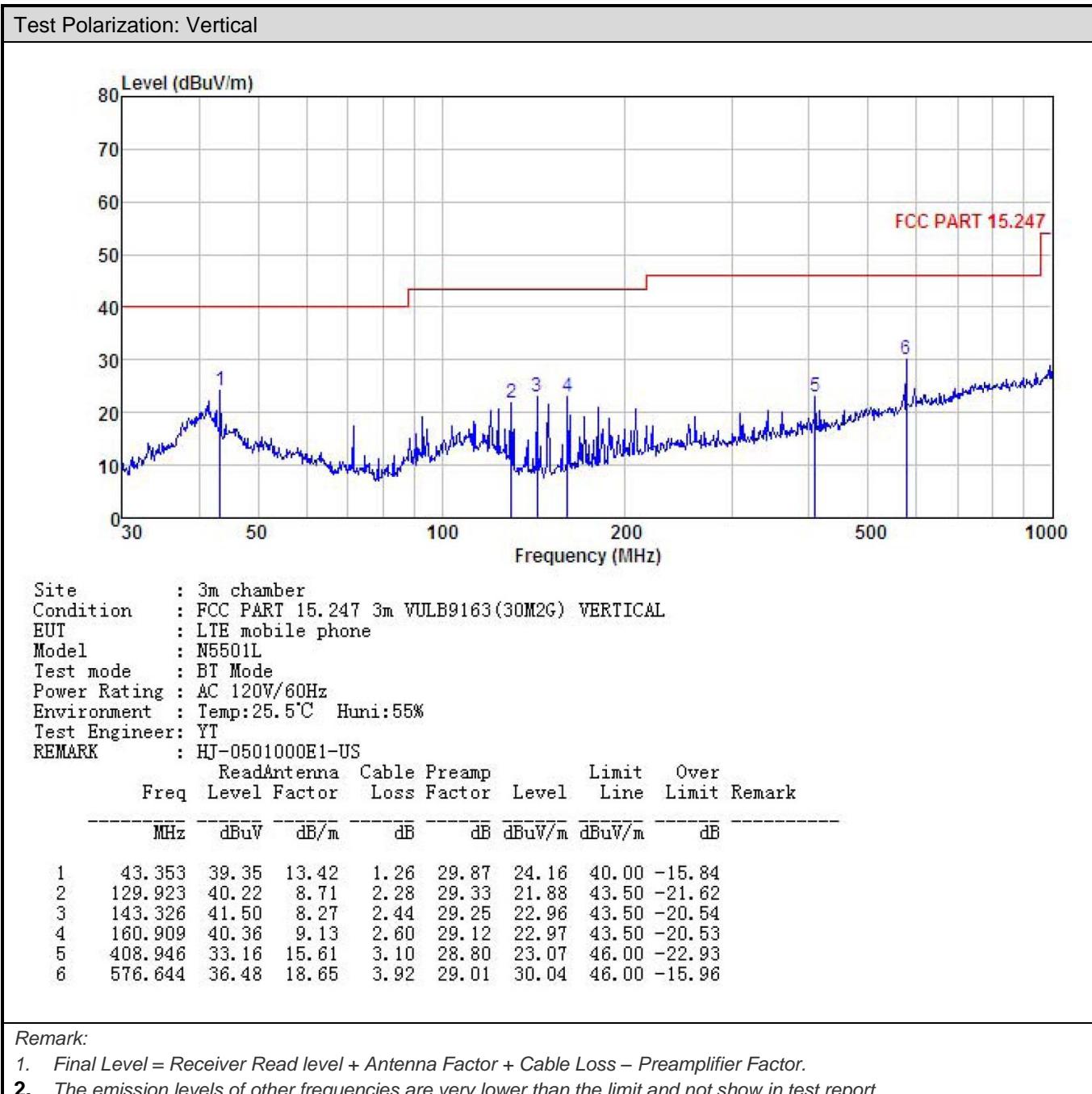
Remark:

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.

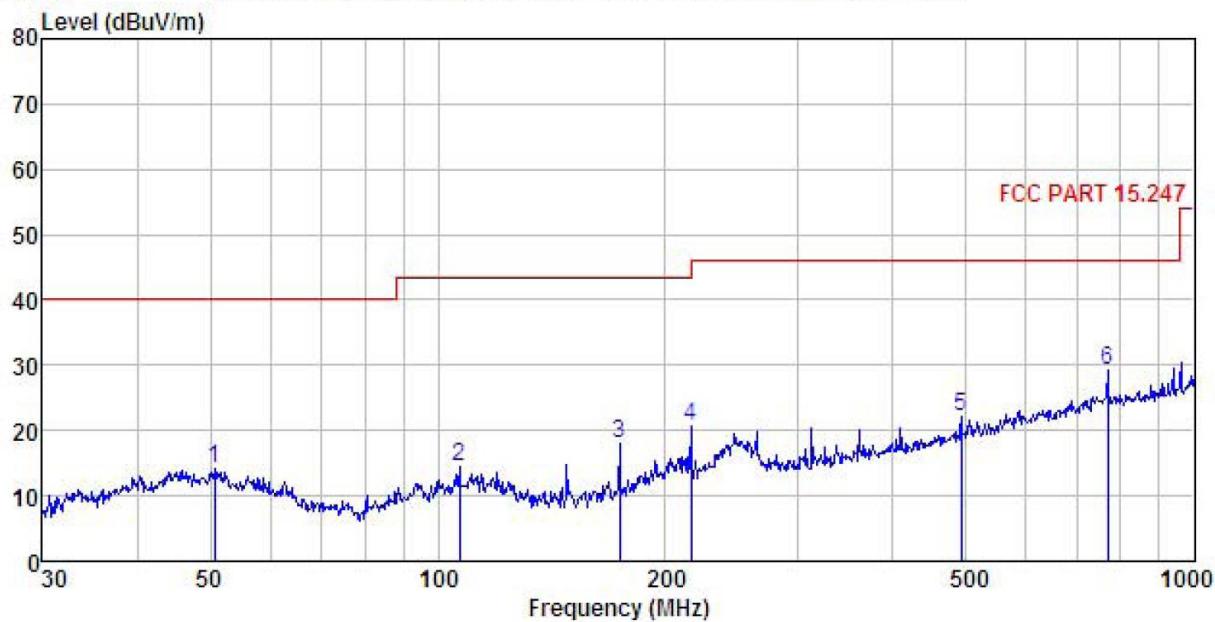
Adapter (2)

Measurement Data (worst case):

Below 1GHz:



Test Polarization: Horizontal



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BT Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: YT
 REMARK : HJ-0501000E1-US

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	MHz	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	50.586	28.73	13.99	1.25	29.82	14.15	40.00	-25.85 QP
2	106.759	29.76	12.11	2.02	29.48	14.41	43.50	-29.09 QP
3	173.814	34.66	9.56	2.68	29.02	17.88	43.50	-25.62 QP
4	216.024	34.33	12.12	2.85	28.73	20.57	46.00	-25.43 QP
5	492.469	30.38	17.30	3.55	28.94	22.29	46.00	-23.71 QP
6	768.748	32.13	21.00	4.36	28.37	29.12	46.00	-16.88 QP

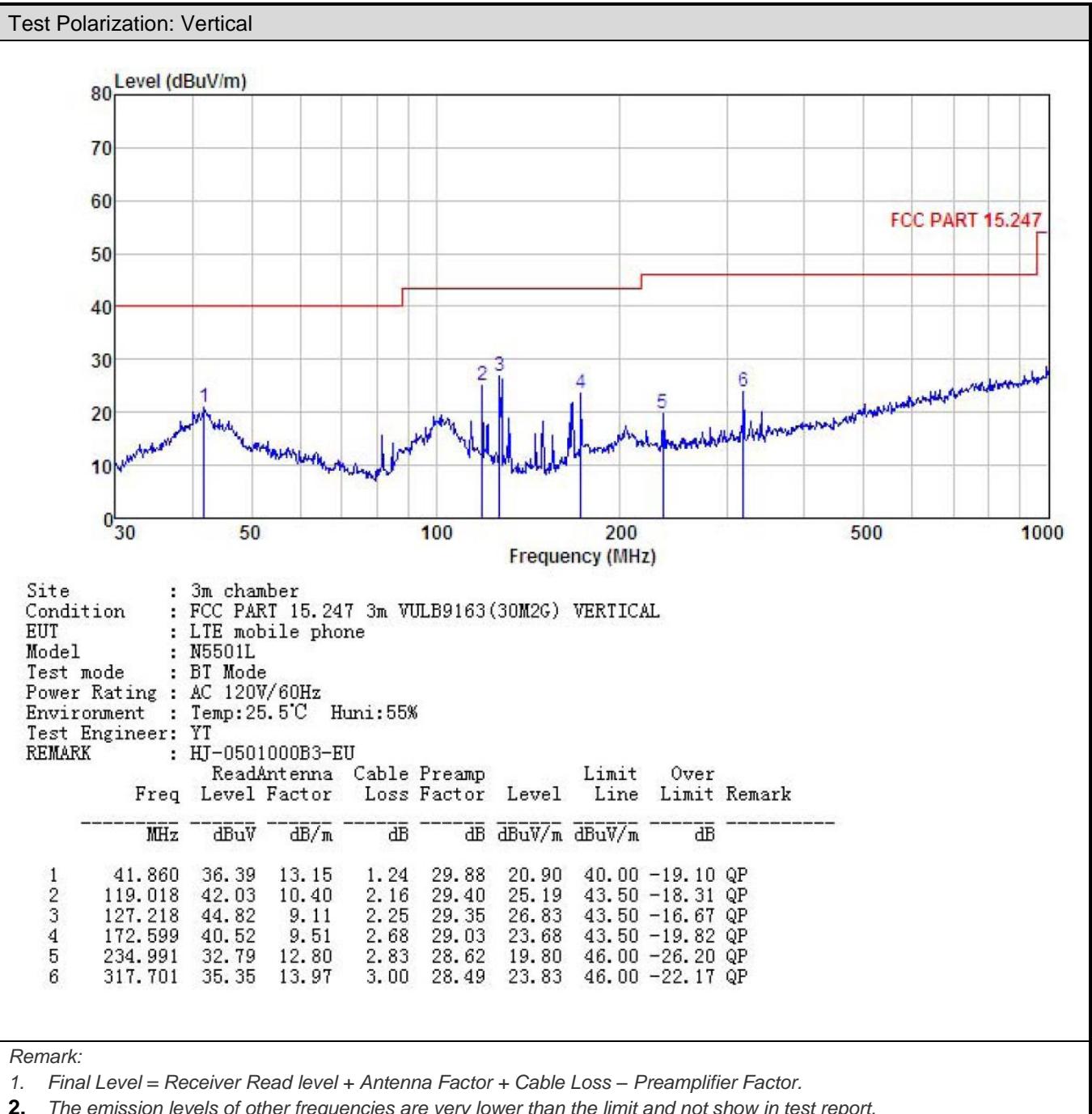
Remark:

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.

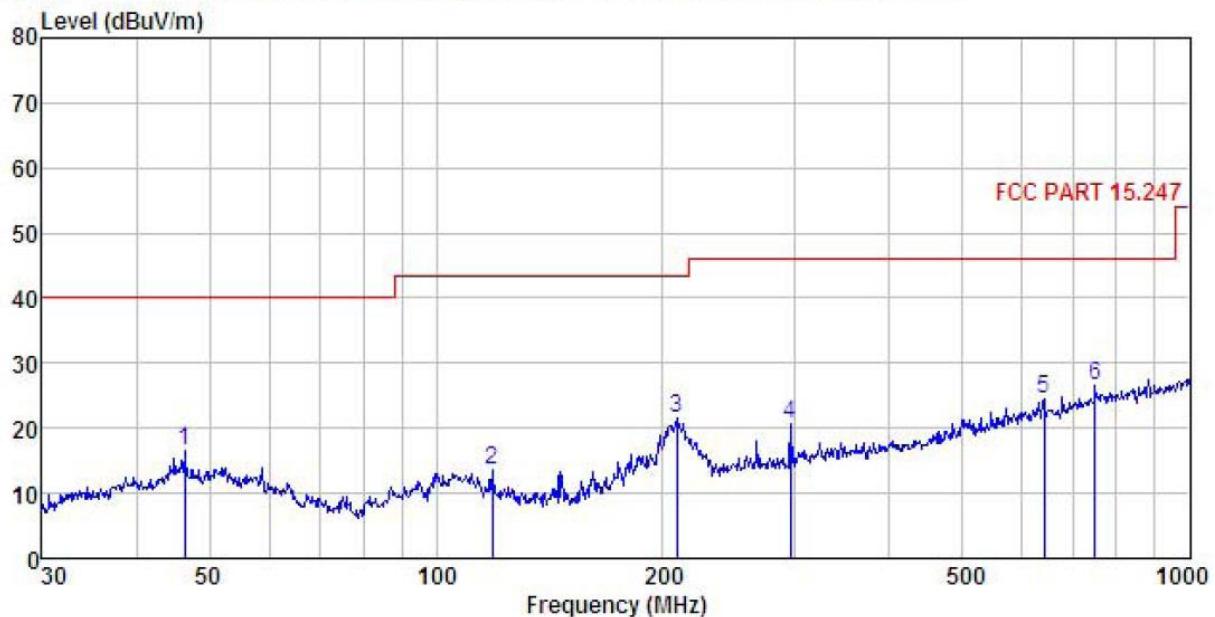
Adapter (3)

Measurement Data (worst case):

Below 1GHz:



Test Polarization: Horizontal



Site : 3m chamber
 Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
 EUT : LTE mobile phone
 Model : N5501L
 Test mode : BT Mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: YT
 REMARK : HJ-0501000B3-EU

Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Limit Factor	Limit		Over Line Limit	Remark	
					MHz	dBuV	dB/m	dB	dBuV/m
1	46.340	31.28	13.81	1.28	29.85	16.52	40.00	-23.48	QP
2	118.601	30.40	10.48	2.16	29.40	13.64	43.50	-29.86	QP
3	208.580	35.62	11.84	2.86	28.78	21.54	43.50	-21.96	QP
4	295.147	32.62	13.57	2.93	28.46	20.66	46.00	-25.34	QP
5	640.611	29.59	19.69	3.88	28.81	24.35	46.00	-21.65	QP
6	750.108	29.74	21.00	4.36	28.48	26.62	46.00	-19.38	QP

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.

Above 1GHz:

Test channel: Lowest channel								
Detector: Peak Value								
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	49.85	30.85	6.80	41.81	45.69	74.00	-28.31	Vertical
4804.00	48.12	30.85	6.80	41.81	43.96	74.00	-30.04	Horizontal
Detector: Average Value								
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	39.62	30.85	6.80	41.81	35.46	54.00	-18.54	Vertical
4804.00	38.12	30.85	6.80	41.81	33.96	54.00	-20.04	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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	48.72	31.20	6.86	41.84	44.94	74.00	-29.06	Vertical
4882.00	47.19	31.20	6.86	41.84	43.41	74.00	-30.59	Horizontal
Detector: Average Value								
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	39.62	31.20	6.86	41.84	35.84	54.00	-18.16	Vertical
4882.00	38.46	31.20	6.86	41.84	34.68	54.00	-19.32	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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	49.20	31.63	6.91	41.87	45.87	74.00	-28.13	Vertical
4960.00	48.15	31.63	6.91	41.87	44.82	74.00	-29.18	Horizontal
Detector: Average Value								
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	39.62	31.63	6.91	41.87	36.29	54.00	-17.71	Vertical
4960.00	38.45	31.63	6.91	41.87	35.12	54.00	-18.88	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.