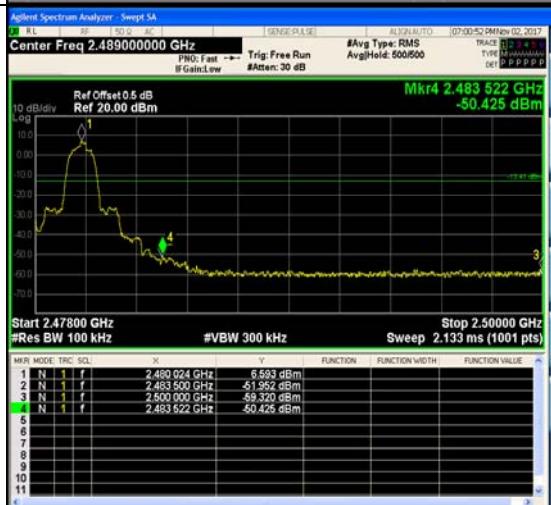
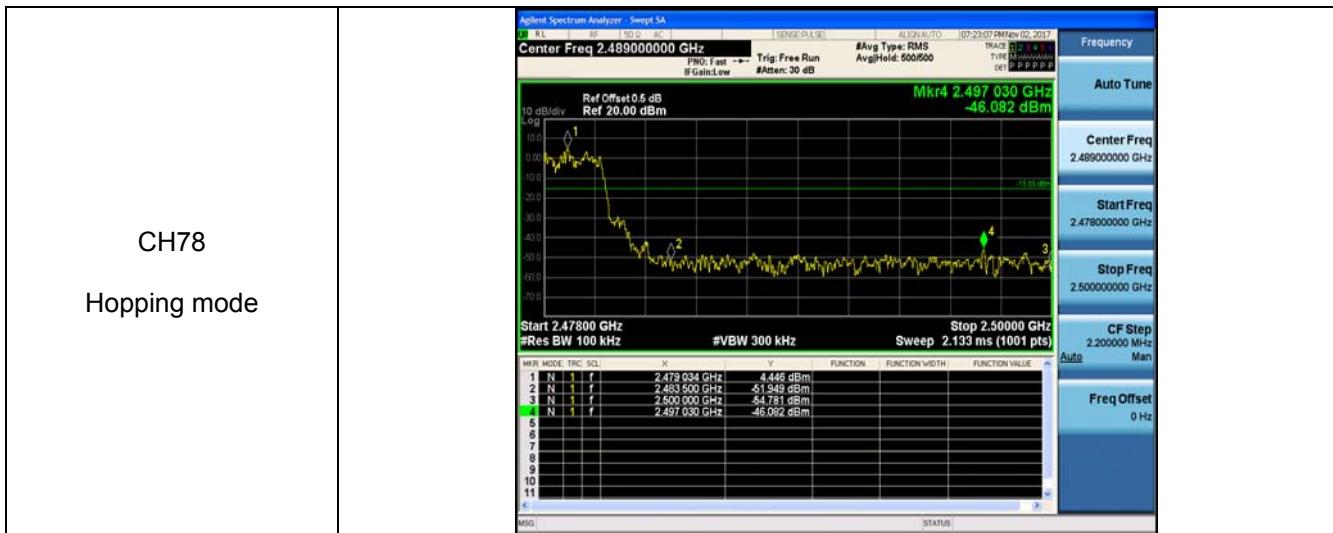
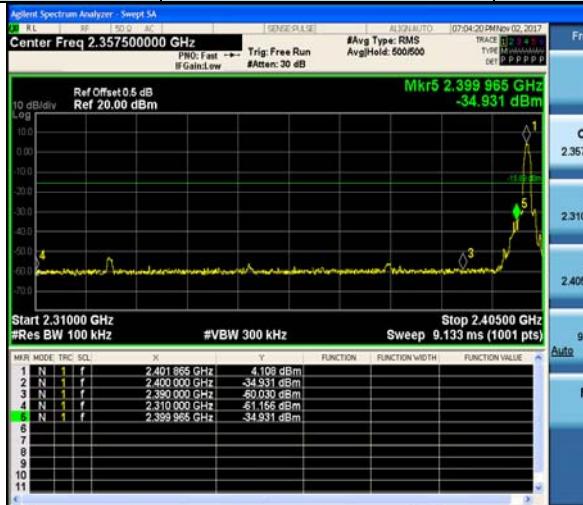
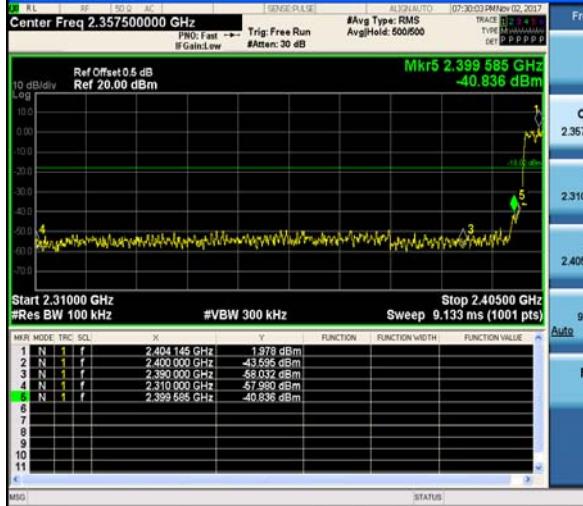
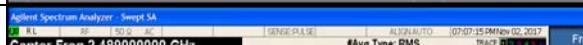
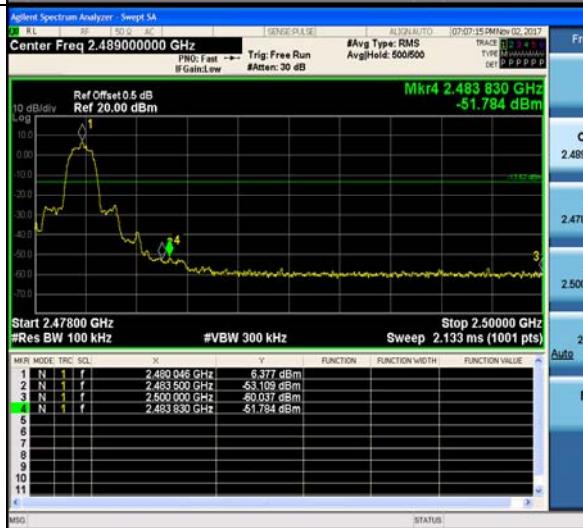
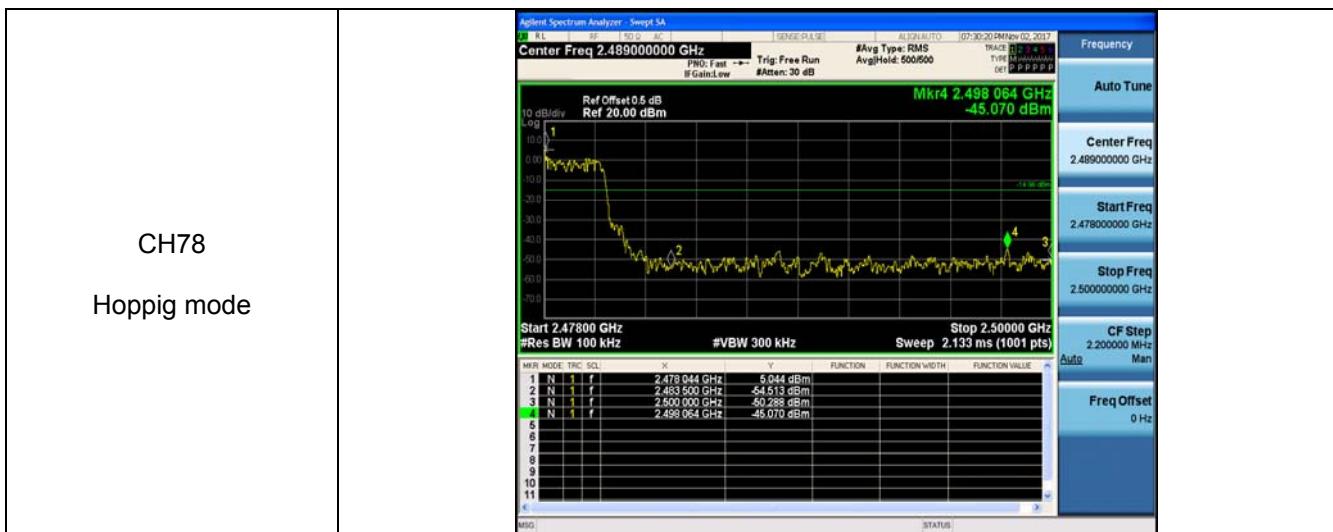
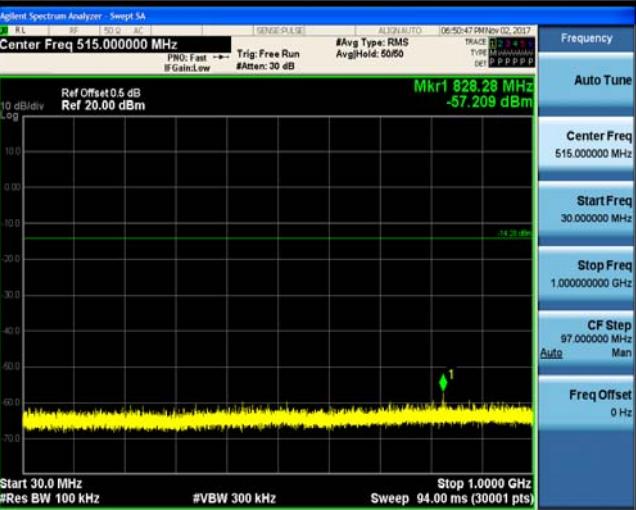


Test Item:	Band edge	Modulation type:	π/4DQPSK																																																																								
CH00	No hopping mode	 <p>Mkr5 2.399 585 GHz -38.337 dBm</p> <p>Start 2.310000 GHz Stop 2.405000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.133 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MUR MODE TRC SQL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr><td>1 N 1 f</td><td>2.402 055 GHz</td><td>-4.204 dBm</td><td></td><td></td><td></td></tr> <tr><td>2 N 1 f</td><td>2.400 000 GHz</td><td>-39.345 dBm</td><td></td><td></td><td></td></tr> <tr><td>3 N 1 f</td><td>2.390 000 GHz</td><td>-59.355 dBm</td><td></td><td></td><td></td></tr> <tr><td>4 N 1 f</td><td>2.310 000 GHz</td><td>-59.564 dBm</td><td></td><td></td><td></td></tr> <tr><td>6 N 1 f</td><td>2.399 585 GHz</td><td>-38.337 dBm</td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	MUR MODE TRC SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1 N 1 f	2.402 055 GHz	-4.204 dBm				2 N 1 f	2.400 000 GHz	-39.345 dBm				3 N 1 f	2.390 000 GHz	-59.355 dBm				4 N 1 f	2.310 000 GHz	-59.564 dBm				6 N 1 f	2.399 585 GHz	-38.337 dBm				6						7						8						9						10						11						Frequency Auto Tune Center Freq Start Freq Stop Freq CF Step Auto Freq Offset 0 Hz
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CH78	No hopping mode	 <p>Mkr4 2.483 522 GHz -50.425 dBm</p> <p>Start 2.478000 GHz Stop 2.500000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.133 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MUR MODE TRC SQL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr><td>1 N 1 f</td><td>2.480 024 GHz</td><td>-6.593 dBm</td><td></td><td></td><td></td></tr> <tr><td>2 N 1 f</td><td>2.483 500 GHz</td><td>-51.952 dBm</td><td></td><td></td><td></td></tr> <tr><td>3 N 1 f</td><td>2.500 000 GHz</td><td>-59.320 dBm</td><td></td><td></td><td></td></tr> <tr><td>4 N 1 f</td><td>2.483 522 GHz</td><td>-50.425 dBm</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	MUR MODE TRC SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1 N 1 f	2.480 024 GHz	-6.593 dBm				2 N 1 f	2.483 500 GHz	-51.952 dBm				3 N 1 f	2.500 000 GHz	-59.320 dBm				4 N 1 f	2.483 522 GHz	-50.425 dBm				5						6						7						8						9						10						11						Frequency Auto Tune Center Freq Start Freq Stop Freq CF Step Auto Freq Offset 0 Hz
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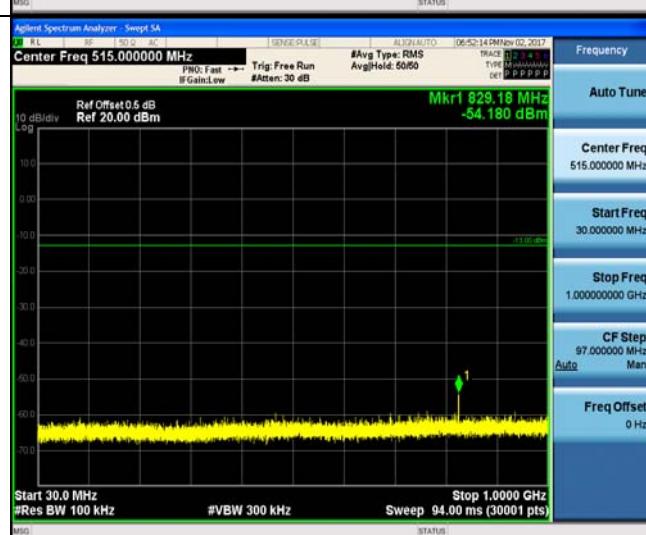


Test Item:	Band edge	Modulation type:	8DPSK																																																																									
CH00	No hopping mode	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.357500000 GHz</p> <p>Start Freq 2.310000000 GHz</p> <p>Stop Freq 2.405000000 GHz</p> <p>CF Step 9.500000 MHz</p> <p>Freq Offset 0 Hz</p>	 <table border="1"> <thead> <tr> <th>MUR MODE</th> <th>TRC SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.401 885 GHz</td><td>4.108 dBm</td></tr> <tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.400 000 GHz</td><td>-34.931 dBm</td></tr> <tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.390 000 GHz</td><td>-60.030 dBm</td></tr> <tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.310 000 GHz</td><td>-61.152 dBm</td></tr> <tr><td>6</td><td>N</td><td>1</td><td>f</td><td>2.399 965 GHz</td><td>-34.931 dBm</td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	MUR MODE	TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.401 885 GHz	4.108 dBm	2	N	1	f	2.400 000 GHz	-34.931 dBm	3	N	1	f	2.390 000 GHz	-60.030 dBm	4	N	1	f	2.310 000 GHz	-61.152 dBm	6	N	1	f	2.399 965 GHz	-34.931 dBm	6						7						8						9						10						11					
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Test Item:	SE	Modulation type:	GFSK
reference level CH00		 <p>Agilent Spectrum Analyzer - Swept SA    Center Freq 2.402000000 GHz    PRO: Fast Trig: Free Run #AvgType: RMS    IFGain:Low #Attenu: 30 dB AvgHold: 100/100    Ref Offset 0.5 dB Mkr1 2.402 03 GHz    Ref 20.50 dBm 5.722 dBm    10 dB/div Log    Center: 2.40200 GHz Span 30.00 MHz    #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)    MSG STATUS</p>	Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.387000000 GHz Stop Freq 2.417000000 GHz CF Step 3.000000 MHz Man Freq Offset 0 Hz
CH00		 <p>Agilent Spectrum Analyzer - Swept SA    Center Freq 515.0000000 MHz    PRO: Fast Trig: Free Run #AvgType: RMS    IFGain:Low #Attenu: 30 dB AvgHold: 50/50    Ref Offset 0.5 dB Mkr1 828.28 MHz    Ref 20.00 dBm -57.209 dBm    10 dB/div Log    Start 30.0 MHz Stop 1.0000 GHz    #Res BW 100 kHz #VBW 300 kHz Sweep 94.00 ms (30001 pts)    MSG STATUS</p>	Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz
		 <p>Agilent Spectrum Analyzer - Swept SA    Center Freq 13.500000000 GHz    PRO: Fast Trig: Free Run #AvgType: RMS    IFGain:Low #Attenu: 30 dB AvgHold: 50/50    Ref Offset 0.5 dB Mkr1 7.206 7 GHz    Ref 20.00 dBm -32.682 dBm    10 dB/div Log    Start 1.00 GHz Stop 26.00 GHz    #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 64.00 ms (30001 pts)    MSG STATUS</p>	Frequency Auto Tune Center Freq 13.500000000 GHz Start Freq 1.000000000 GHz Stop Freq 26.000000000 GHz CF Step 2.500000000 GHz Auto Freq Offset 0 Hz

reference level CH39



CH39

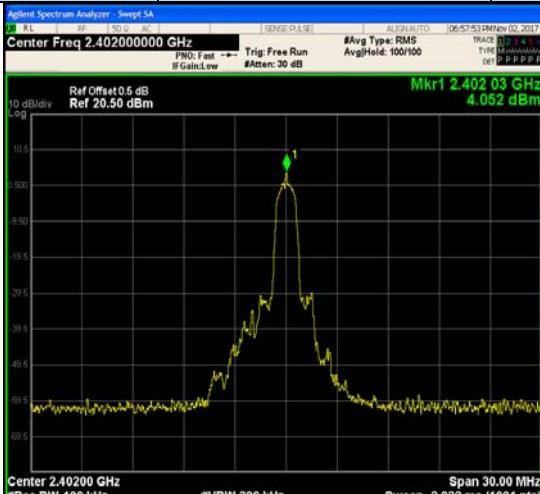
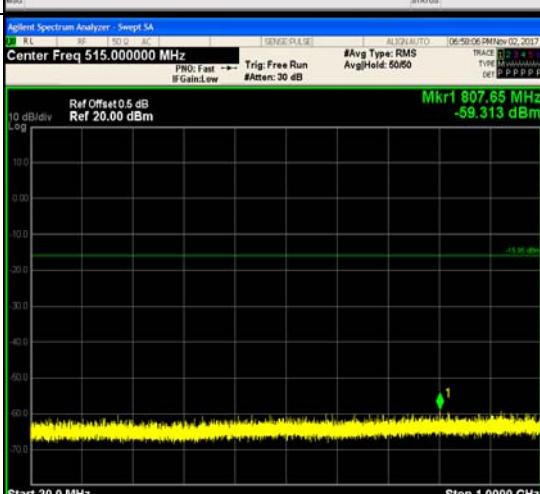


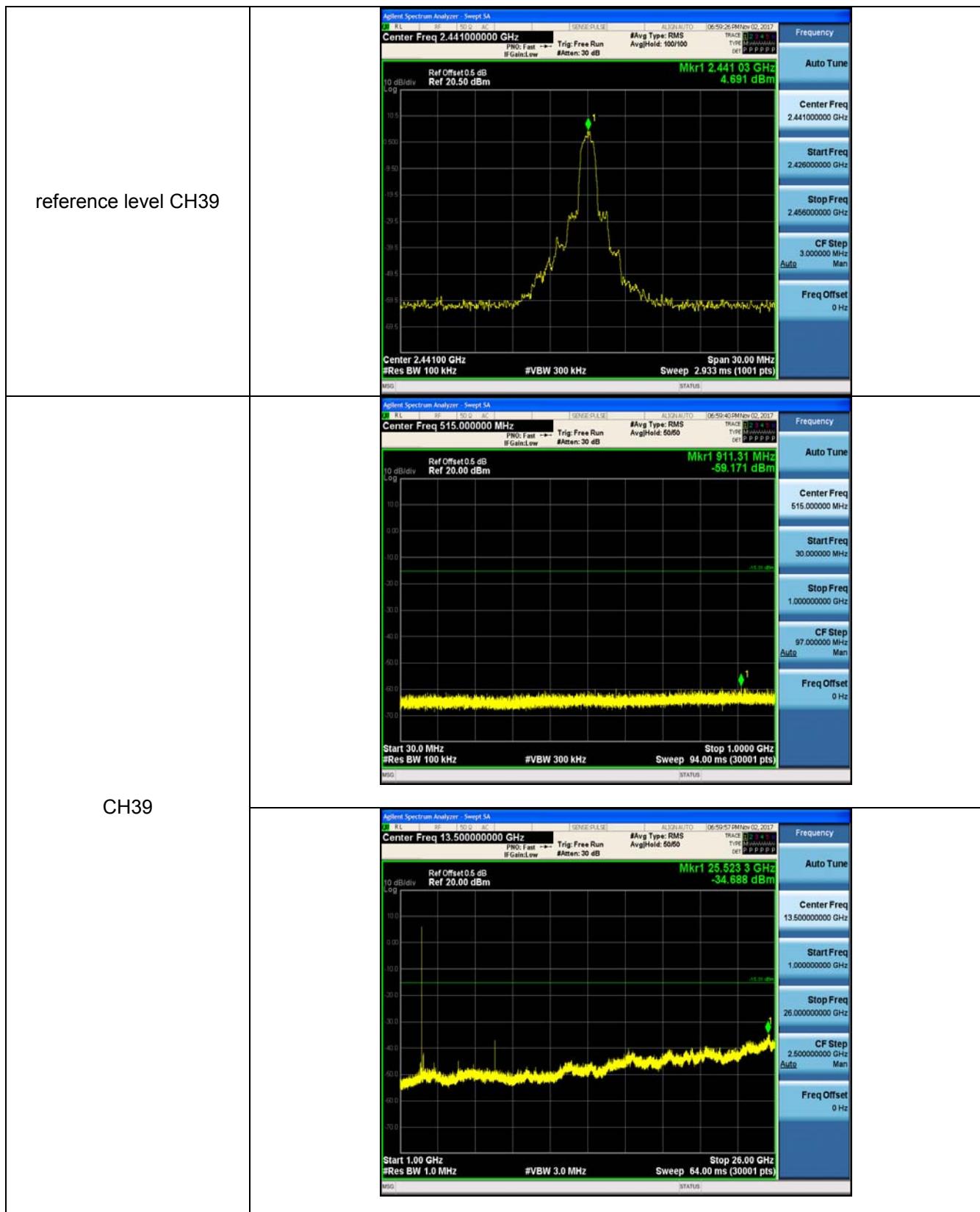
reference level CH78

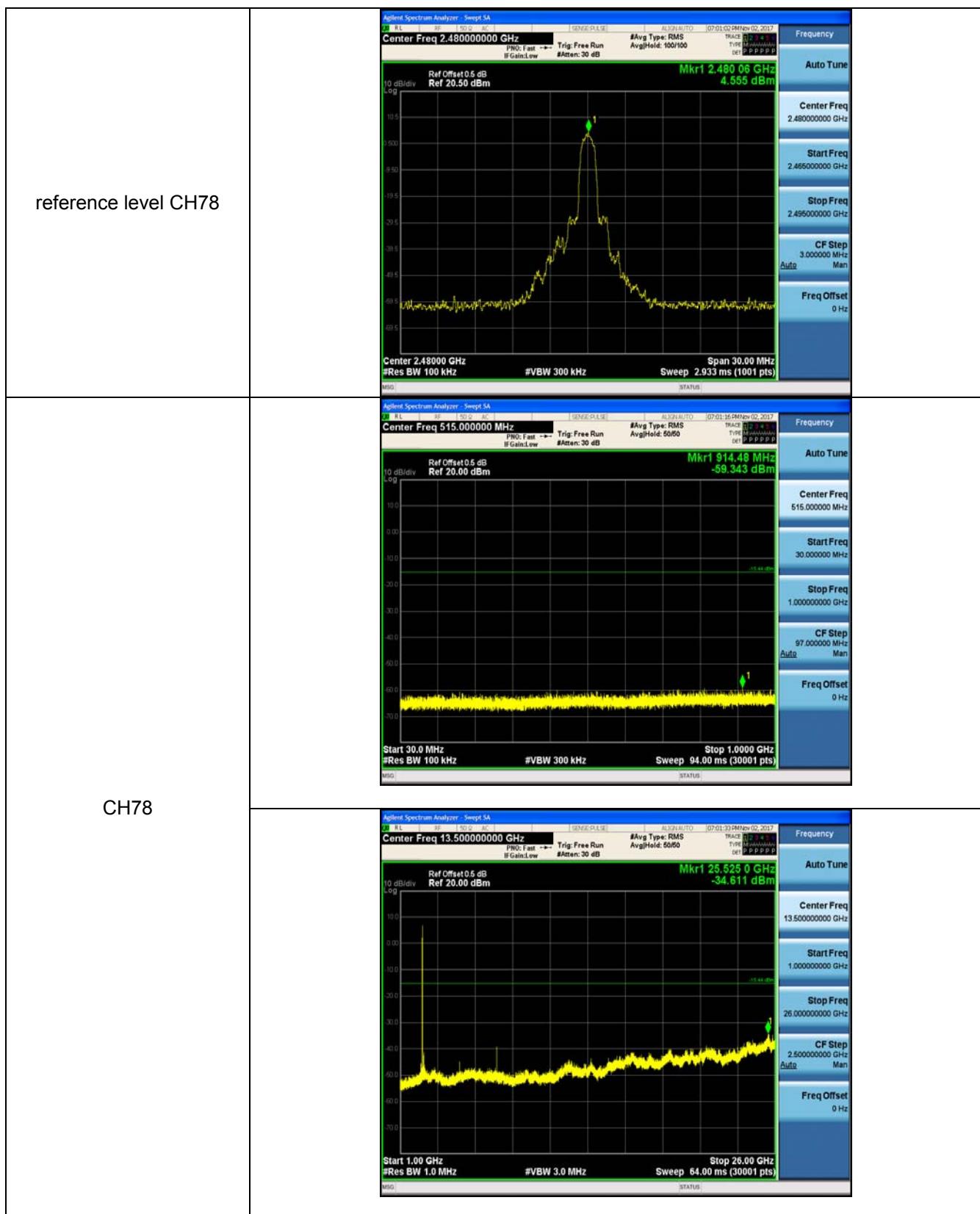


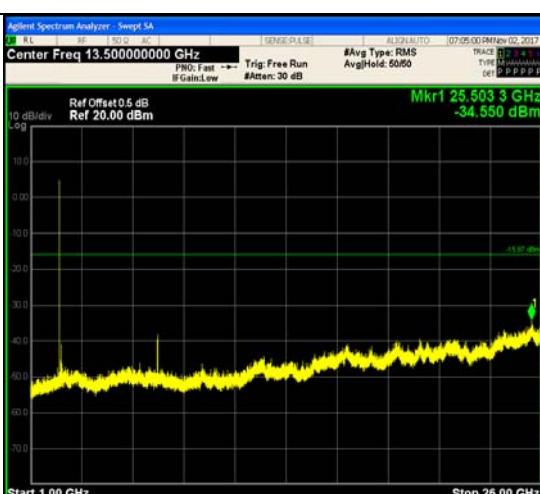
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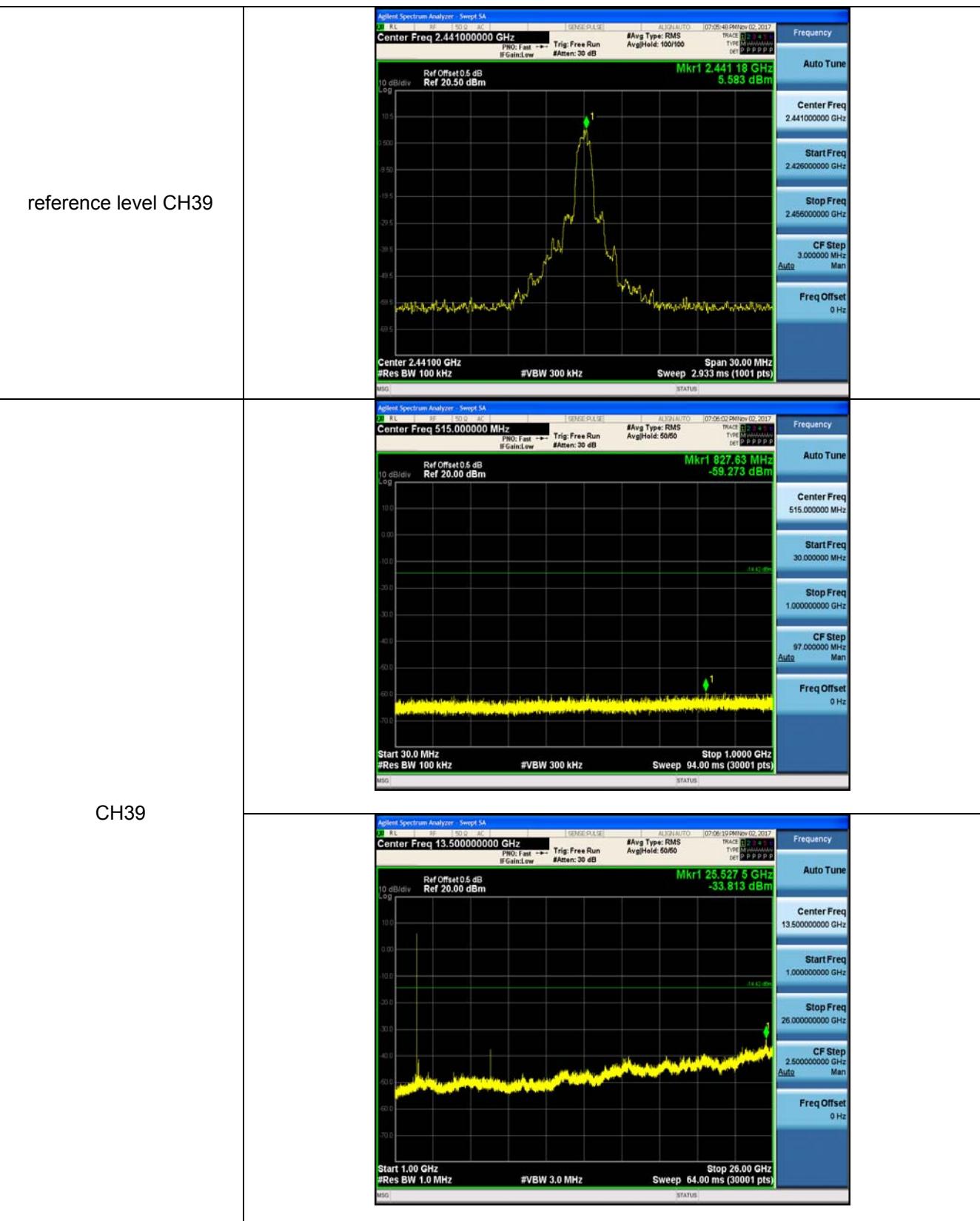


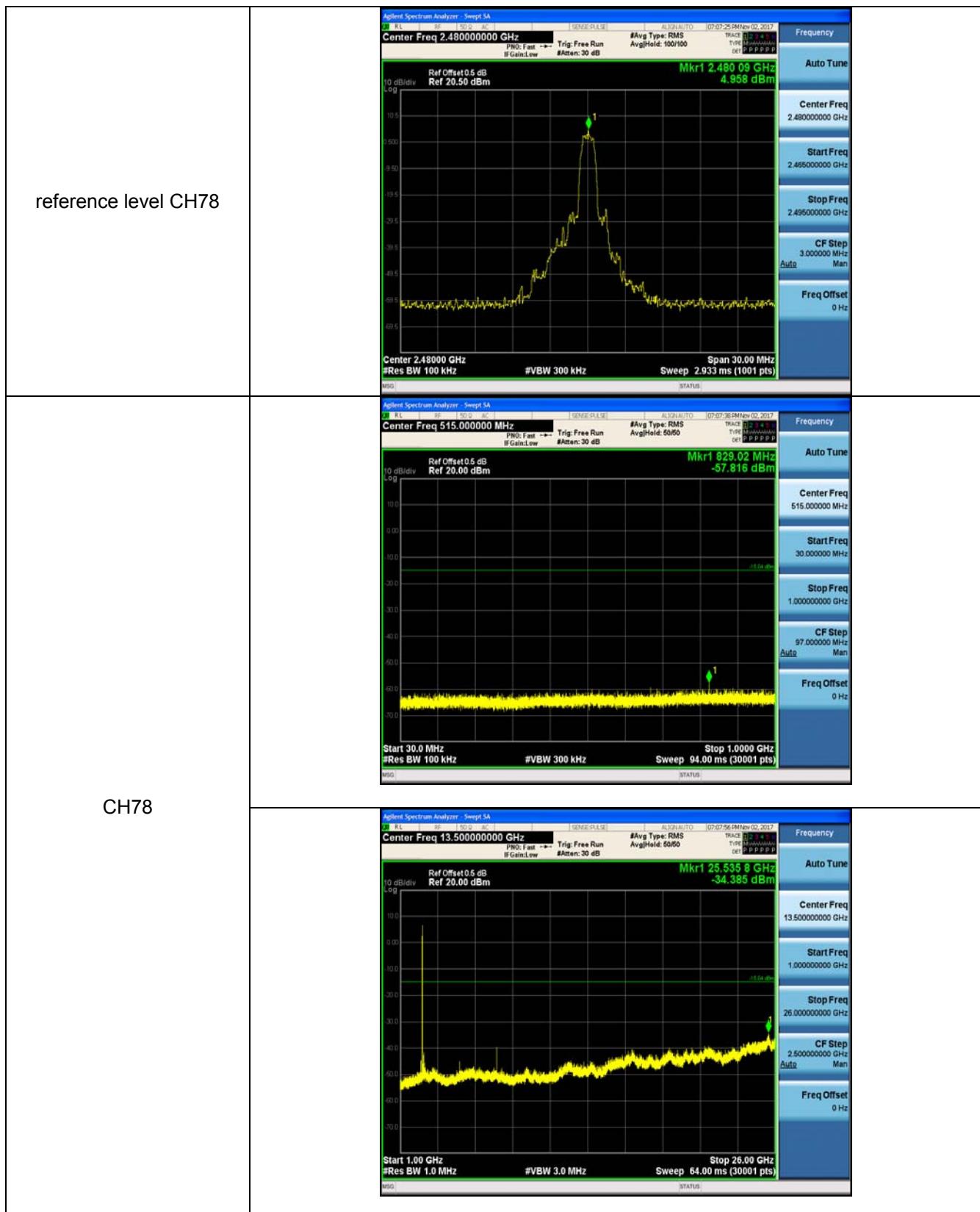
Test Item:	SE	Modulation type:	π/4DQPSK
reference level CH00			<p>Frequency Auto Tune</p> <p>Center Freq 2.40200000 GHz</p> <p>Start Freq 2.38700000 GHz</p> <p>Stop Freq 2.41700000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
CH00			<p>Frequency Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
			<p>Frequency Auto Tune</p> <p>Center Freq 13.50000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 26.00000000 GHz</p> <p>CF Step 2.50000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p>





Test Item:	SE	Modulation type:	8DPSK
reference level CH00		 <p>Agilent Spectrum Analyzer - Swept SA  Center Freq 2.402000000 GHz  Ref Offset 0.5 dB  Ref 20.50 dBm  10 dB/div  #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)  Mkr1 2.402 03 GHz 4.033 dBm</p>	Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.387000000 GHz Stop Freq 2.417000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
CH00		 <p>Agilent Spectrum Analyzer - Swept SA  Center Freq 515.0000000 MHz  Ref Offset 0.5 dB  Ref 20.00 dBm  10 dB/div  Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 94.00 ms (30001 pts)  Mkr1 870.31 MHz -58.690 dBm</p>	Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz
		 <p>Agilent Spectrum Analyzer - Swept SA  Center Freq 13.500000000 GHz  Ref Offset 0.5 dB  Ref 20.00 dBm  10 dB/div  Start 1.00 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 64.00 ms (30001 pts)  Mkr1 25.503 3 GHz -34.550 dBm</p>	Frequency Auto Tune Center Freq 13.500000000 GHz Start Freq 1.000000000 GHz Stop Freq 26.000000000 GHz CF Step 2.500000000 GHz Auto Man Freq Offset 0 Hz





## 5.11. Spurious Emissions (radiated)

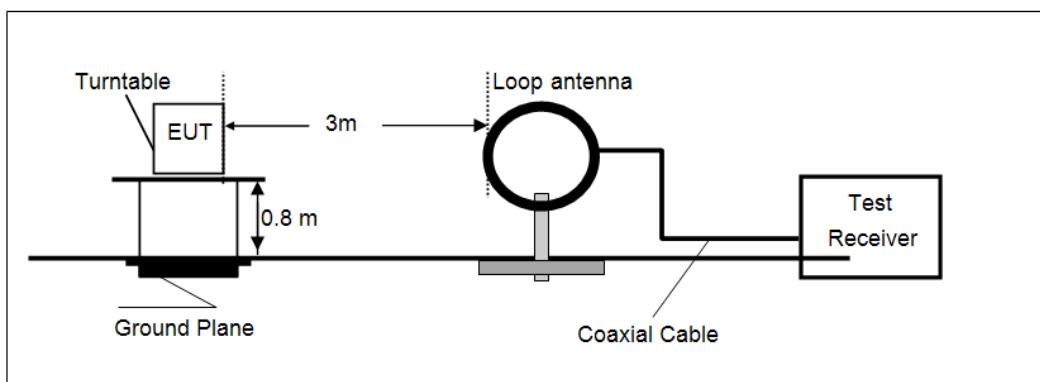
### LIMIT

#### FCC CFR Title 47 Part 15 Subpart C Section 15.209

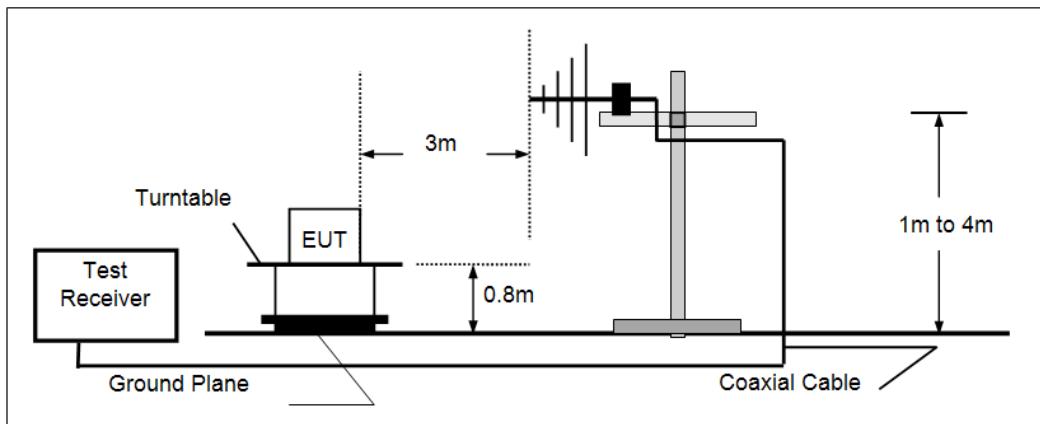
Frequency	Limit (dB <sub>V</sub> /m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

### TEST CONFIGURATION

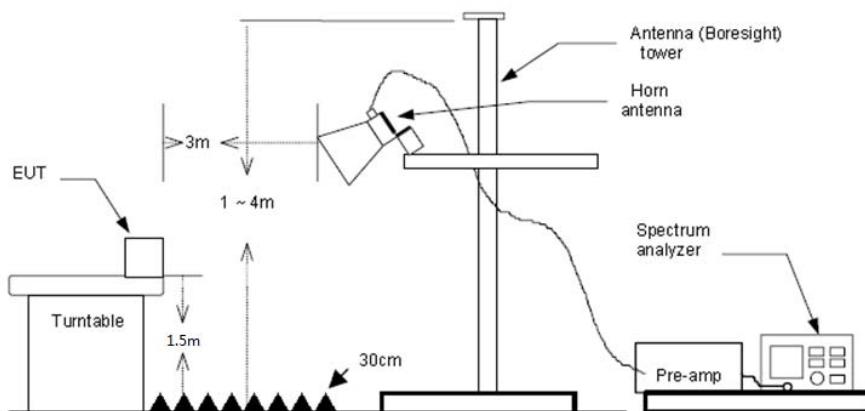
- Below 30 MHz



- 30 MHz ~1000 MHz



- Above 1 GHz



### TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz, RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) Above 1 GHz, RBW=1 MHz, VBW=3 MHz Peak detector for Peak value  
RBW=1 MHz, VBW=10 Hz Peak detector for Average value.

### TEST MODE:

Please refer to the clause 3.3

### TEST RESULTS

Passed       Not Applicable

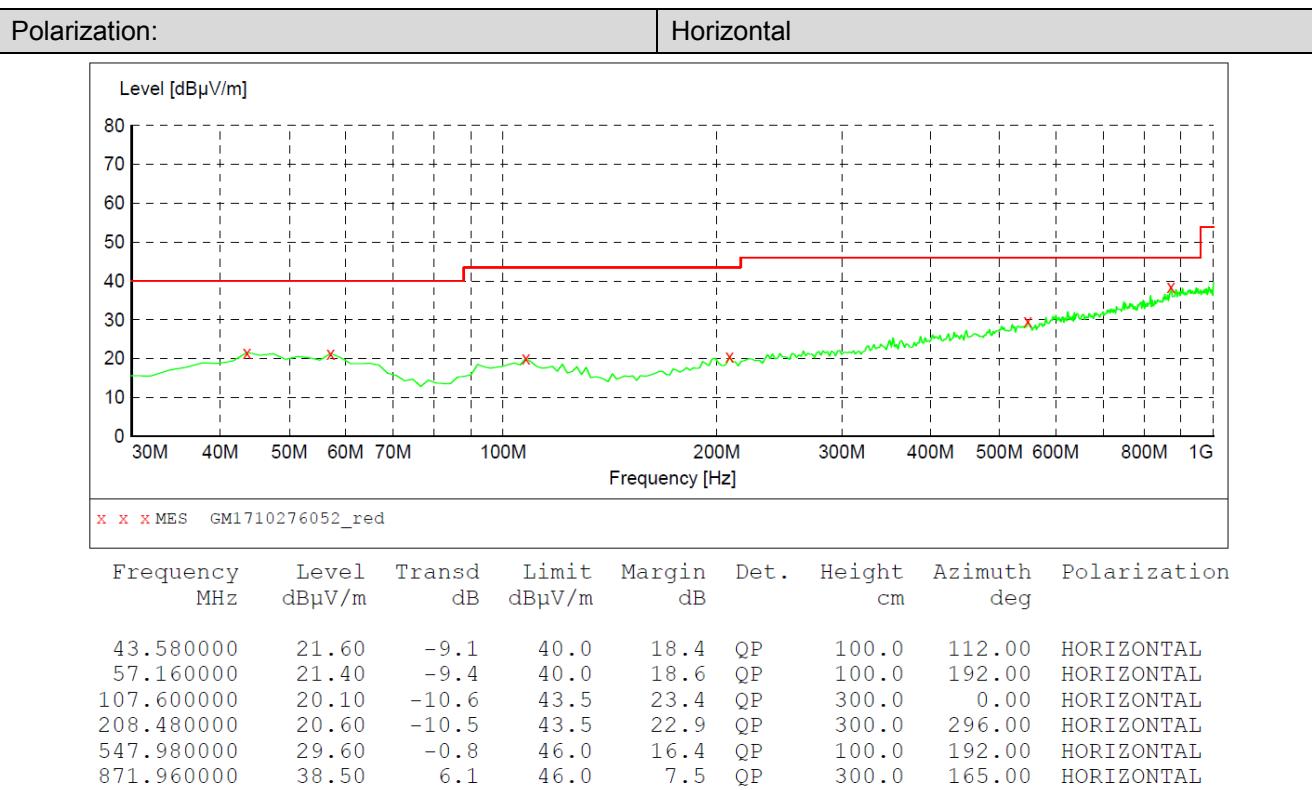
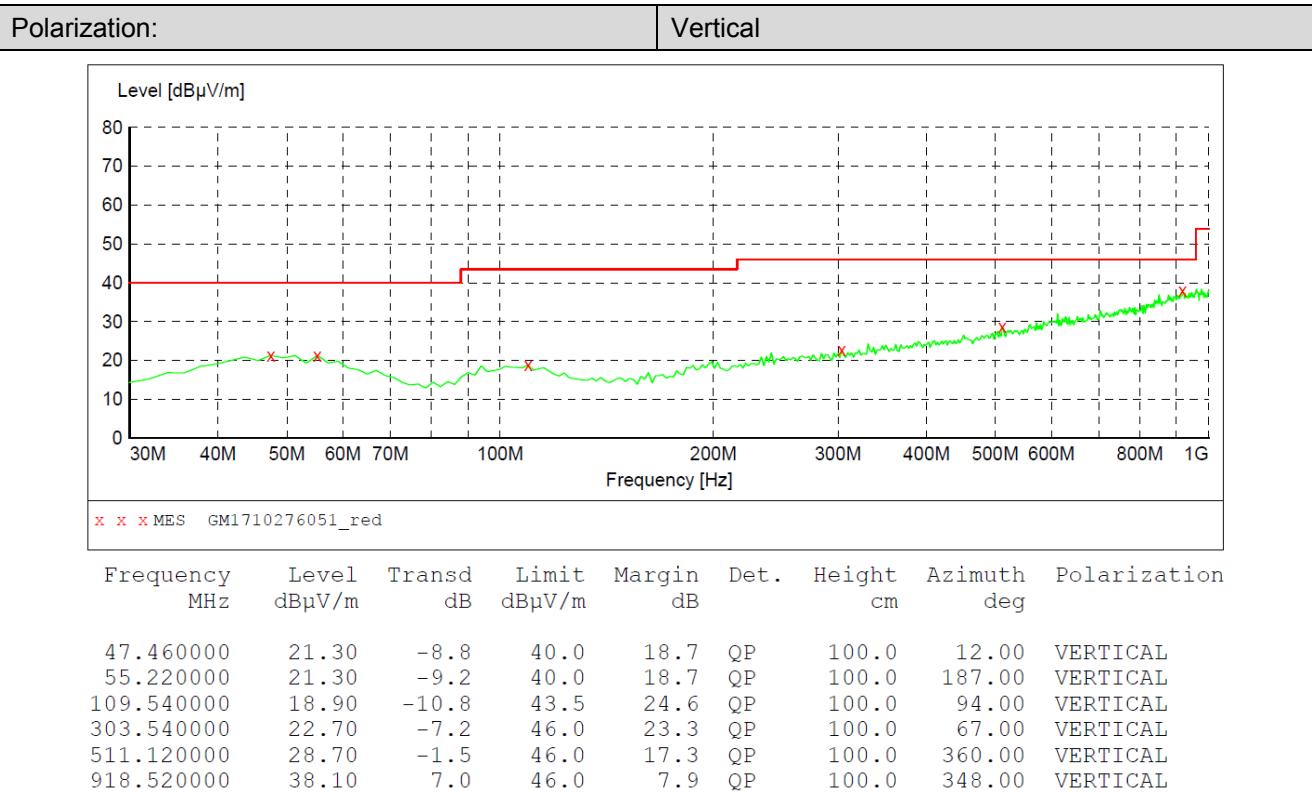
#### Note:

- 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.
- 3) Below 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation High channel which it was worst case, so only the worst case's data on the test report.
- 4) Above 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report
- 5) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

#### ➤ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

## &gt; 30 MHz ~ 1 GHz



## &gt; Above 1 GHz

CH00 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1724.17	48.40	25.25	5.81	36.98	42.48	74.00	-31.52	Vertical	Peak
3552.58	40.49	29.16	8.20	38.34	39.51	74.00	-34.49	Vertical	
4809.50	56.03	31.58	9.55	36.93	60.23	74.00	-13.77	Vertical	
7209.02	42.58	36.21	11.87	35.07	55.59	74.00	-18.41	Vertical	
4809.50	27.72	31.58	9.55	36.93	31.92	54.00	-22.08	Vertical	Average
7209.02	26.03	36.21	11.87	35.07	39.04	54.00	-14.96	Vertical	
1340.089	43.66	26.08	4.9	36.49	38.15	74.00	-35.85	Horizontal	
4809.499	54.5	31.58	9.55	36.93	58.7	74.00	-15.3	Horizontal	Peak
6140.854	40.62	32.66	10.91	35.34	48.85	74.00	-25.15	Horizontal	
7209.015	45.32	36.21	11.87	35.07	58.33	74.00	-15.67	Horizontal	
4809.498	42.85	31.58	9.55	36.93	47.05	54.00	-6.95	Horizontal	
7209.016	18.91	36.21	11.87	35.07	31.92	54.00	-22.08	Horizontal	Average

CH39 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1299.773	46.1	26.2	4.83	36.52	40.61	74.00	-33.39	Vertical	Peak
1795.839	42.52	25.39	5.95	37.13	36.73	74.00	-37.27	Vertical	
4883.519	44.63	31.43	9.59	36.73	48.92	74.00	-25.08	Vertical	
7319.964	42.27	36.3	11.99	34.92	55.64	74.00	-18.36	Vertical	
4883.518	39.93	31.43	9.59	36.73	44.22	54.00	-9.78	Vertical	Average
7319.965	27.05	36.3	11.99	34.92	40.42	54.00	-13.58	Vertical	
1346.93	47.54	26.06	4.91	36.49	42.02	74.00	-31.98	Horizontal	
4181.16	42.63	29.98	8.92	37.69	43.84	74.00	-30.16	Horizontal	Peak
4883.52	59.23	31.43	9.59	36.73	63.52	74.00	-10.48	Horizontal	
7319.96	44.45	36.30	11.99	34.92	57.82	74.00	-16.18	Horizontal	
7319.96	25.92	36.30	11.99	34.92	39.29	54.00	-14.71	Horizontal	Average
4883.52	36.13	31.43	9.59	36.73	40.42	54.00	-13.58	Horizontal	

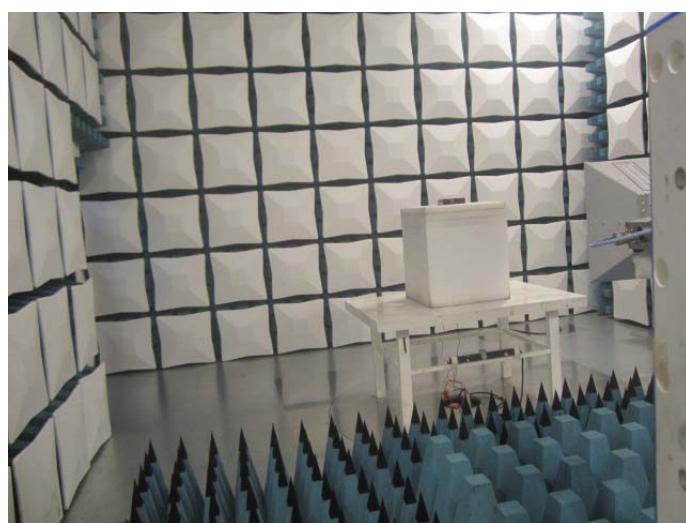
CH78 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2081.55	44.55	26.63	6.34	37.32	40.20	74.00	-33.80	Vertical	Peak
3192.37	41.69	28.80	7.71	38.20	40.00	74.00	-34.00	Vertical	
4958.68	54.77	31.46	9.64	36.52	59.35	74.00	-14.65	Vertical	
7451.57	42.92	36.20	12.24	34.86	56.50	74.00	-17.50	Vertical	
4958.68	38.54	31.46	9.64	36.52	43.12	54.00	-10.88	Vertical	Average
7451.57	31.11	36.20	12.24	34.86	44.69	54.00	-9.31	Vertical	
1795.84	47.24	25.39	5.95	37.13	41.45	74.00	-32.55	Horizontal	
3963.52	36.18	29.70	8.73	38.13	36.48	74.00	-37.52	Horizontal	Peak
4958.68	56.60	31.46	9.64	36.52	61.18	74.00	-12.82	Horizontal	
7451.57	43.48	36.20	12.24	34.86	57.06	74.00	-16.94	Horizontal	
4958.68	37.94	31.46	9.64	36.52	42.52	54.00	-11.48	Horizontal	Average
7451.57	23.66	36.20	12.24	34.86	37.24	54.00	-16.76	Horizontal	

➤ Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54dBuV/m), this data is the too weak instrument of signal is unable to test. The emission levels of other frequencies are very lower than the limit and not show in test report.

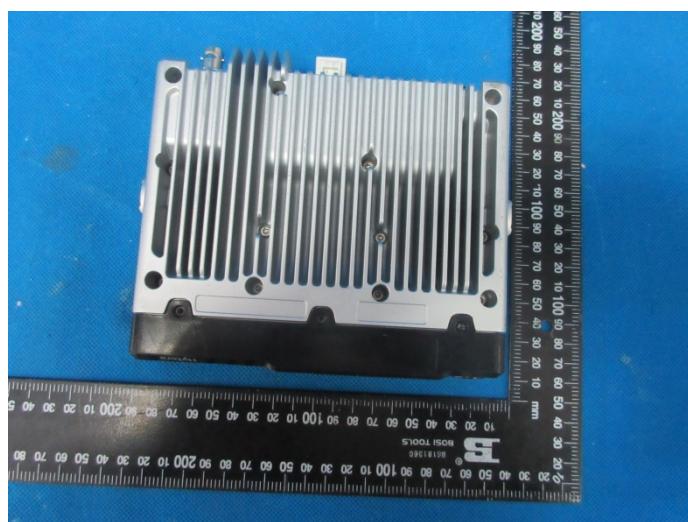
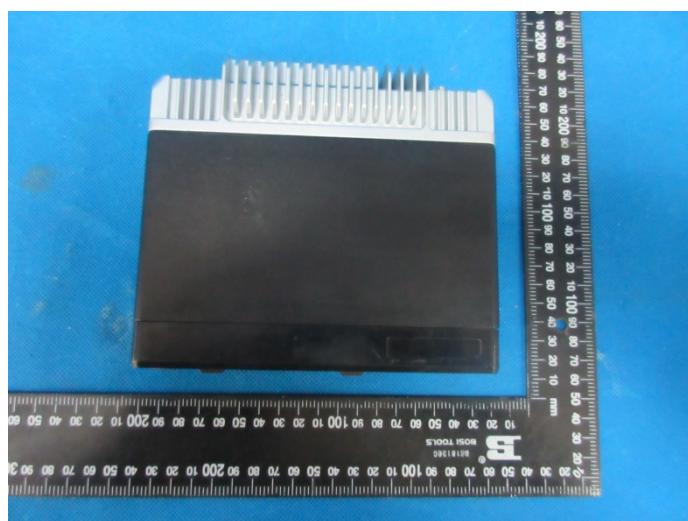
## 6. TEST SETUP PHOTOS

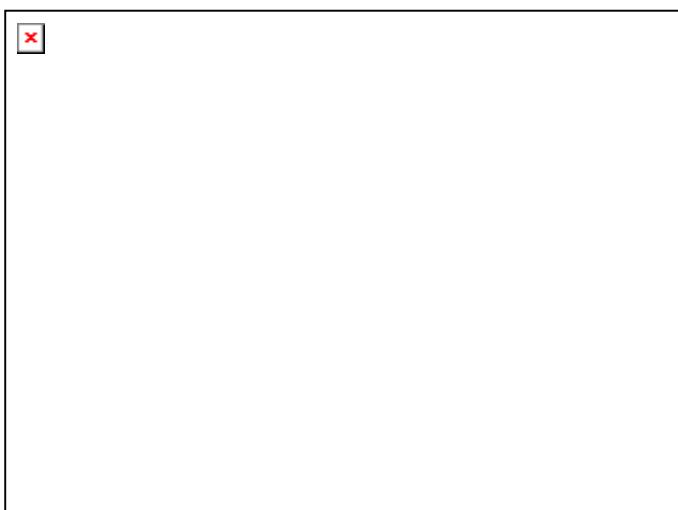
Radiated Emission:

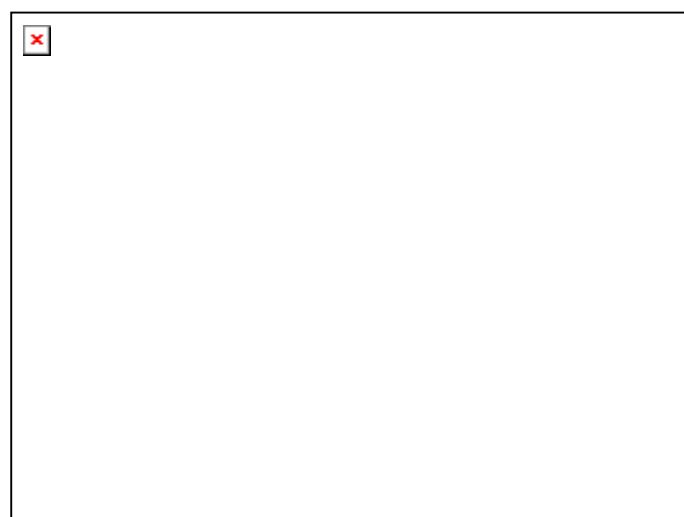


## 7. EXTERANAL AND INTERNAL PHOTOS

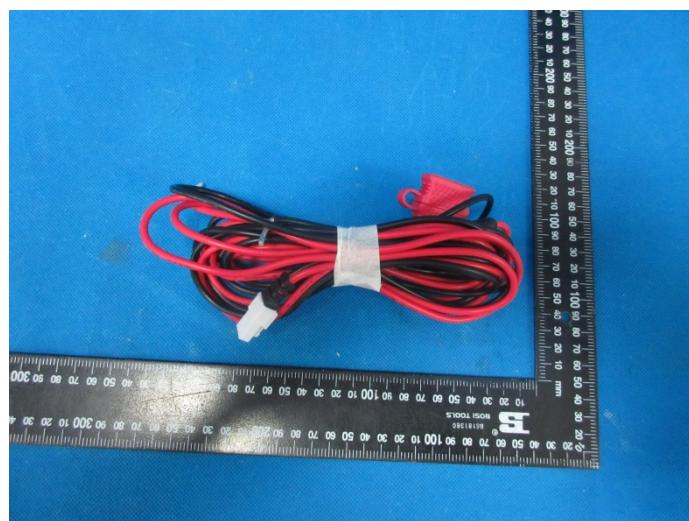
### External Photos of the EUT

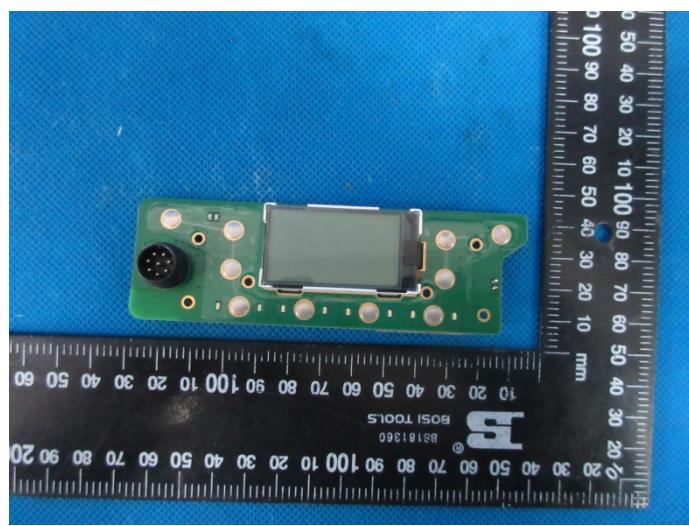
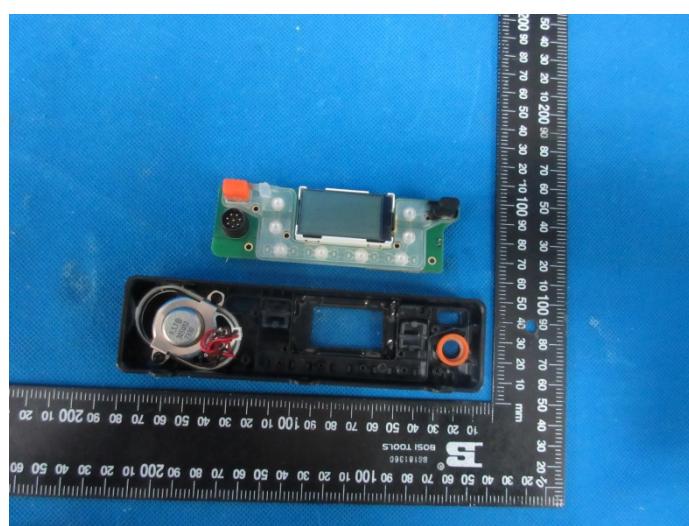


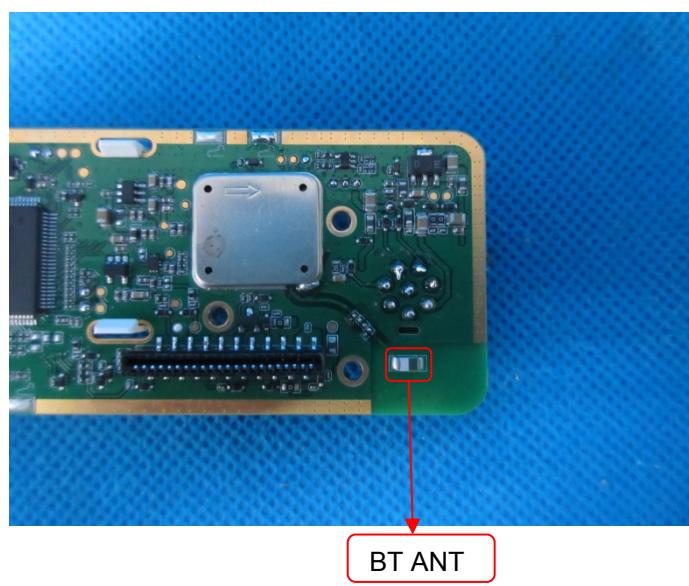


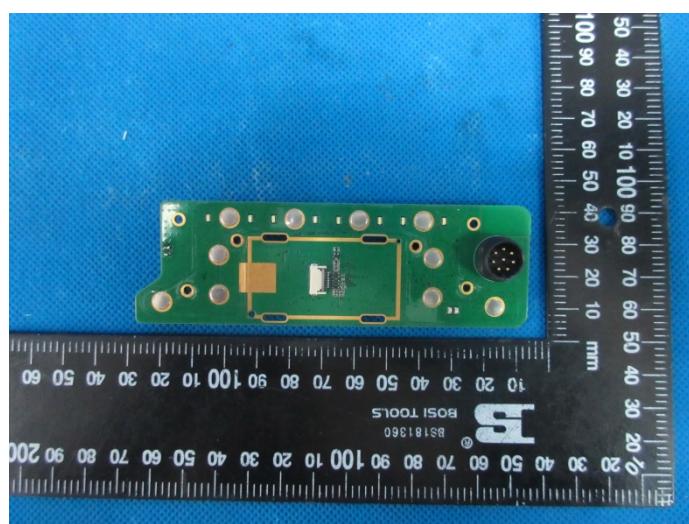
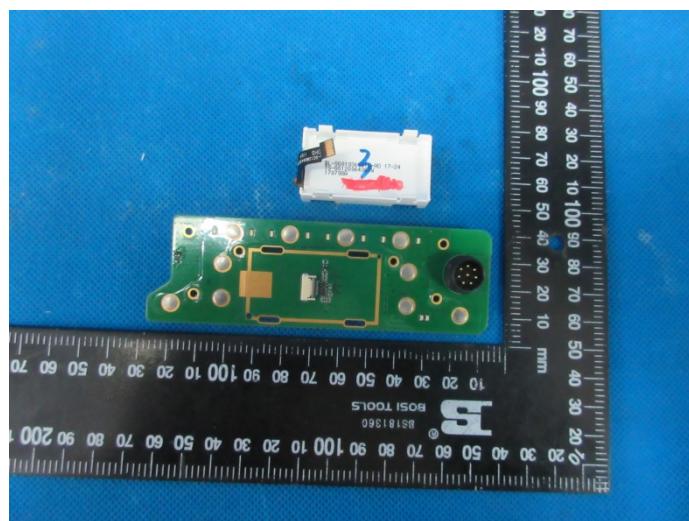


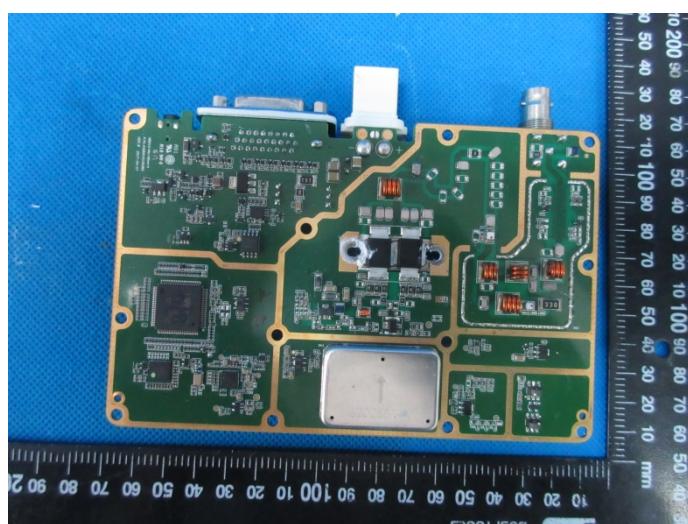
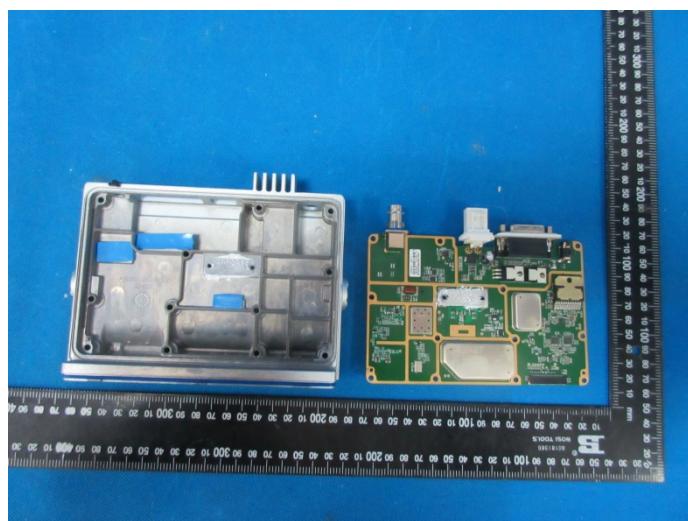




**Internal Photos of the EUT**









-----End of Report-----