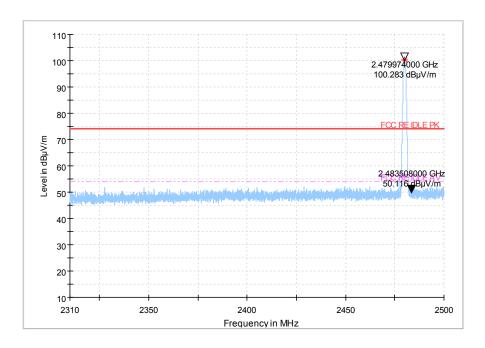


Fig.43 Radiated emission (Power): GFSK, low channel



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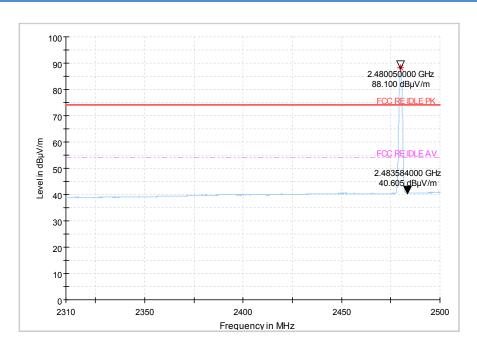


Fig.44 Radiated emission (Power): GFSK, high channel

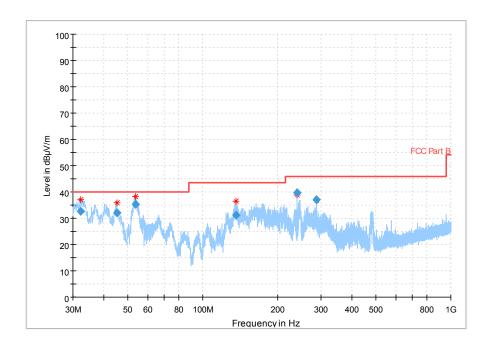


Fig.45 Radiated emission:  $\pi/4$  DQPSK, Ch0, 30MHz~1GHz

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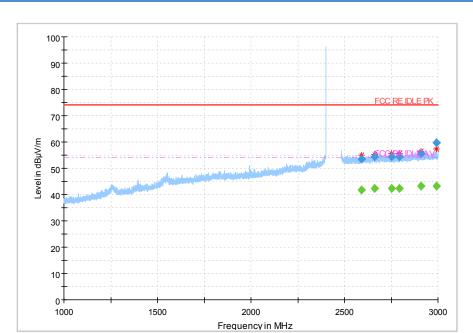


Fig.46 Radiated emission: π/4 DQPSK, Ch0, 1GHz~3GHz

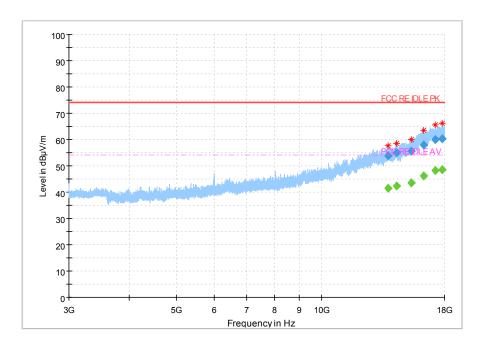
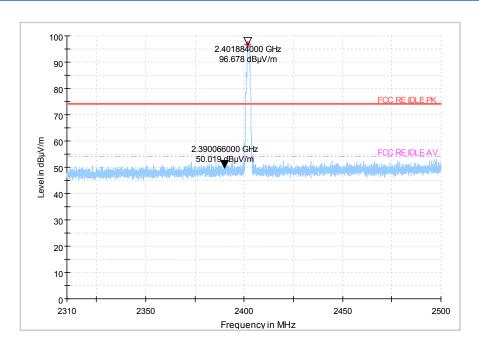


Fig.47 Radiated emission: π/4 DQPSK, Ch0, 3GHz~18GHz

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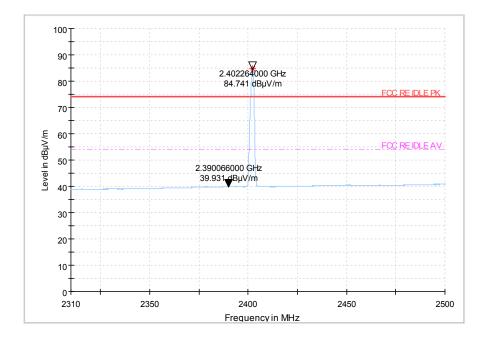
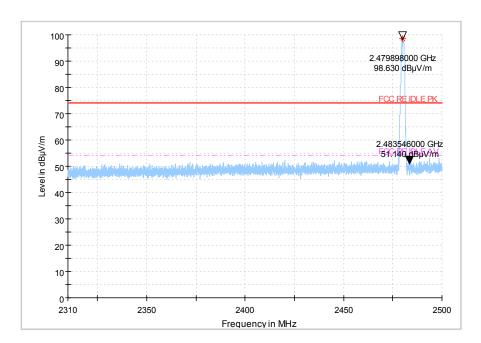


Fig.48 Radiated emission (Power): π/4 DQPSK, low channel





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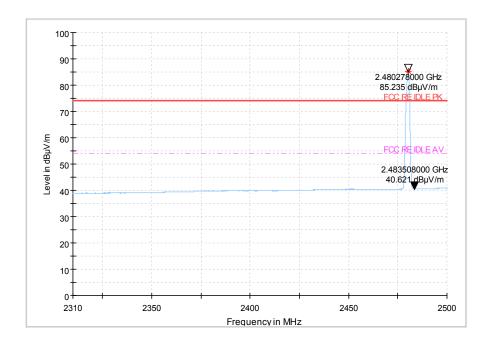
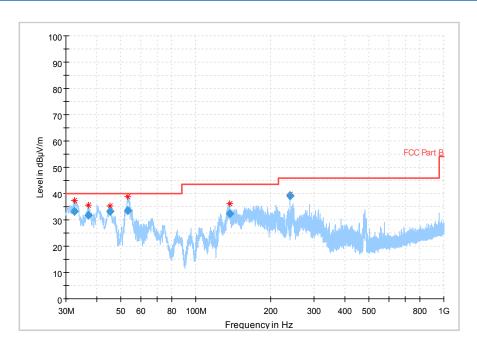


Fig.49 Radiated emission (Power): π/4 DQPSK, high channel



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Fig.50 Radiated emission: 8DPSK, Ch0, 30MHz~1GHz

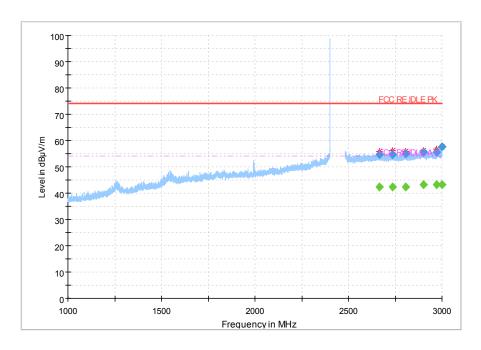
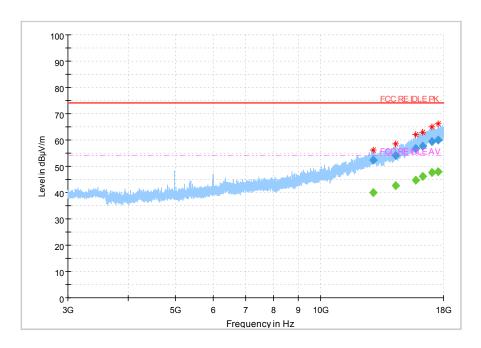


Fig.51 Radiated emission: 8DPSK, Ch0, 1GHz~3GHz

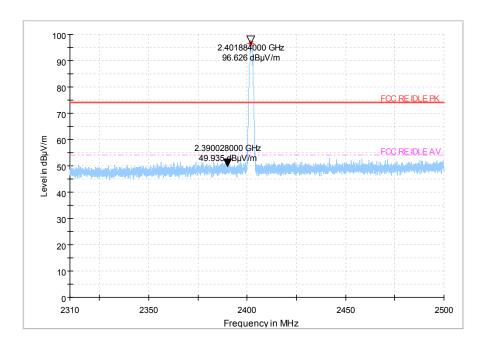




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Fig.52 Radiated emission: 8DPSK, Ch0, 3GHz~18GHz





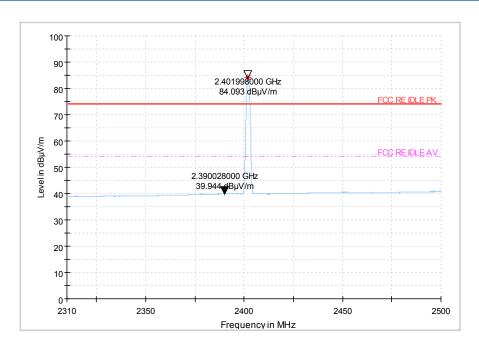
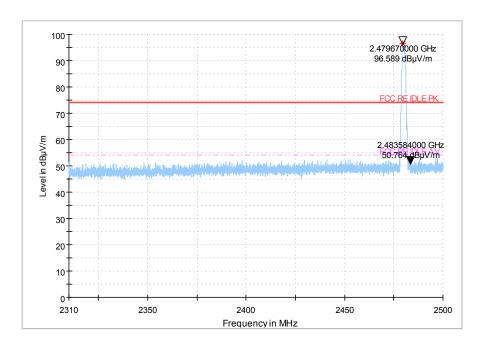


Fig.53 Radiated emission (Power): 8DPSK, low channel



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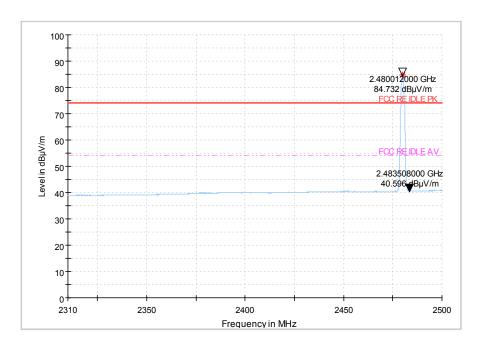


Fig.54 Radiated emission (Power): 8DPSK, high channel

### T3521

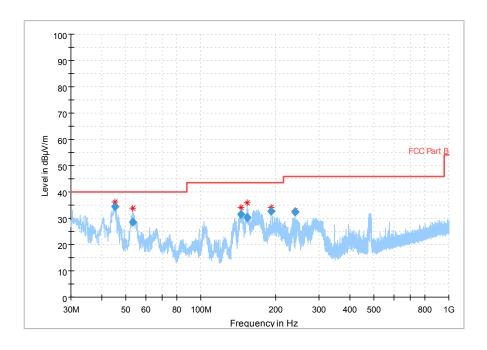


Fig.55 Radiated emission: GFSK, Ch0, 30MHz~1GHz

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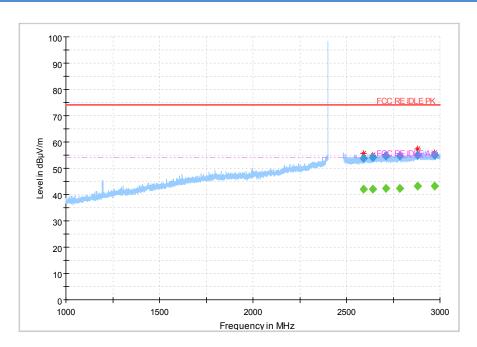


Fig.56 Radiated emission: GFSK, Ch0, 1GHz~3GHz

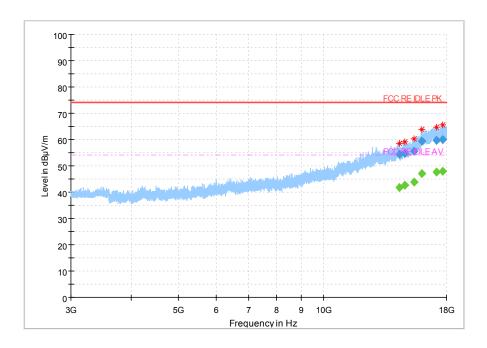
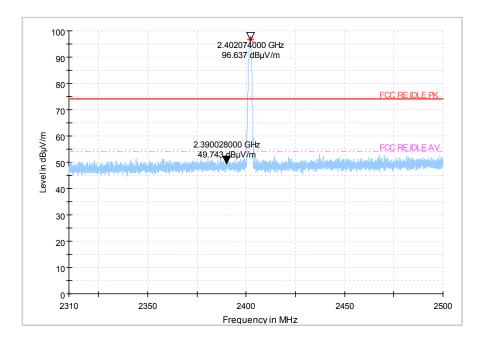


Fig.57 Radiated emission: GFSK, Ch0, 3GHz~18GHz

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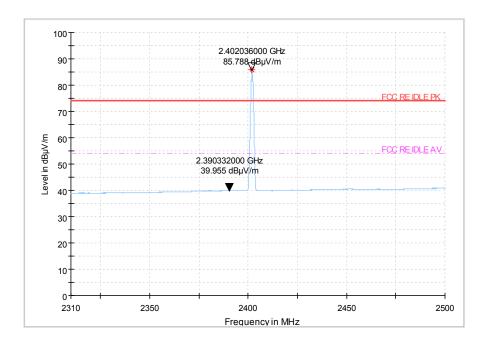
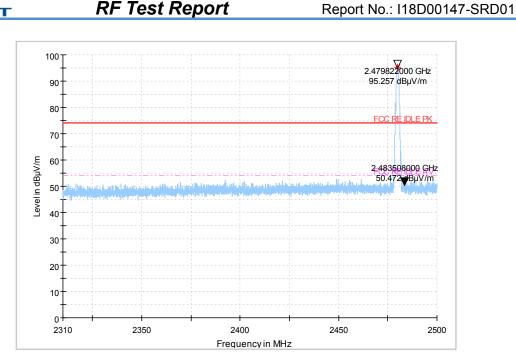


Fig.58 Radiated emission (Power): GFSK, low channel





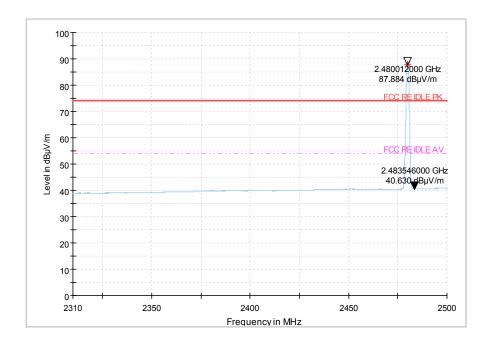


Fig.59 Radiated emission (Power): GFSK, high channel

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T3522

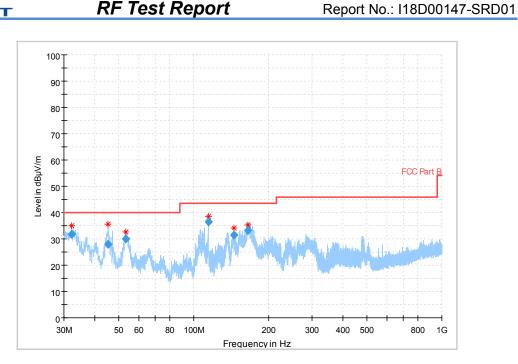


Fig.60 Radiated emission: GFSK, Ch0, 30MHz~1GHz

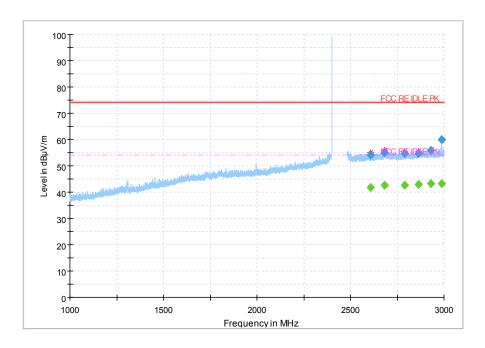
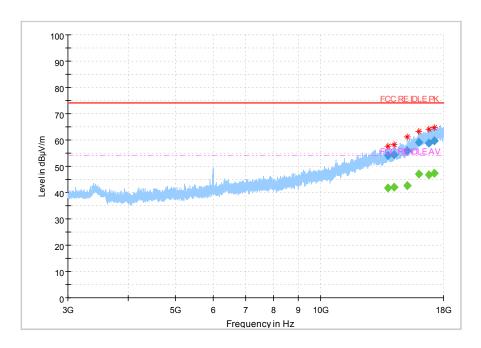


Fig.61 Radiated emission: GFSK, Ch0, 1GHz~3GHz

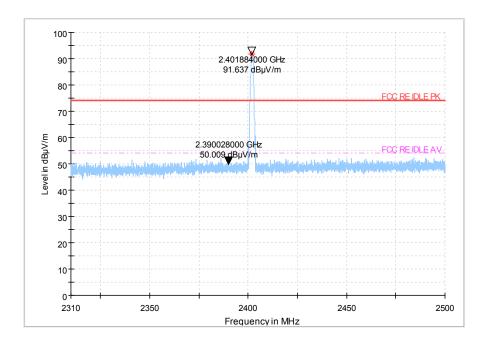




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Fig.62 Radiated emission: GFSK, Ch0, 3GHz~18GHz





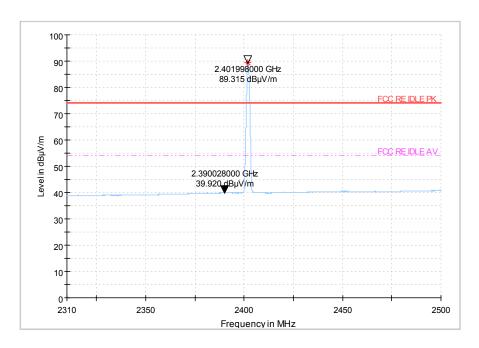
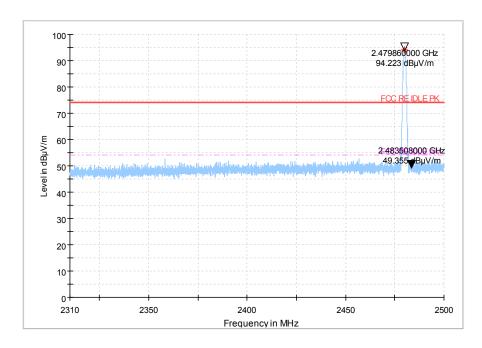


Fig.63 Radiated emission (Power): GFSK, low channel



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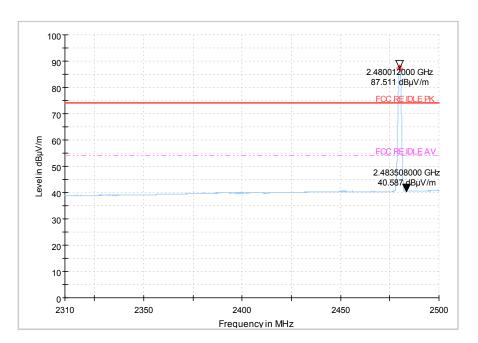
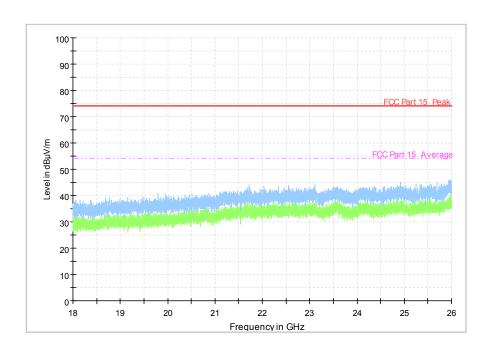


Fig.64 Radiated emission (Power): GFSK, high channel



ALL Channel 18GHz~26GHz

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6.5. Time Of Occupancy (Dwell Time)

#### 6.5.1 Measurement Limit:

Standard	Limit (ms)
FCC 47CFR Part 15.247 (a) (1) (iii)	< 400

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### 6.5.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.4

- 1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit maximum power.
- 3. Set the spectrum analyzer as step 4 to step 8.
- 4. Span: Zero span, centered on a hopping channel.
- 5. RBW shall be  $\leq$  channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- 6. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to showtwo successive hops on a channel.
- 7. Detector function: Peak.
- 8. Trace: Max hold.
- 9. Use the marker-delta function, and record it.

### 6.5.3 Measurement Result

#### For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
DIV	Fig.65	00.40	0	
	DH1	Fig.66	36.48	Р
D110	DU2	Fig.67	194.21	Р
39	39 DH3	Fig.68		
	DUE	Fig.69	244.02	D
DH5	Fig.70	241.92	Р	

### For $\pi/4$ DQPSK

Channel	Packet	Dwell Time (ms)	Conclusion	
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	2014	Fig.71	65.66	Р
	2DH1	Fig.72		
39	2DH3	Fig.73	199.10	Р
		Fig.74		
	2015	Fig.75	241.02	Р
	2DH5	Fig.76	241.92	

### For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
	Fig.77	65.00	5	
	3DH1	Fig.78 65.28	05.20	Р
20	39 3DH3 Fig.80	100.10	Б	
39		Fig.80	199.10	Р
	20115	Fig.81	252.44	D
3DH5	Fig.82	253.44	Р	

**Conclusion: PASS** Test graphs as below:

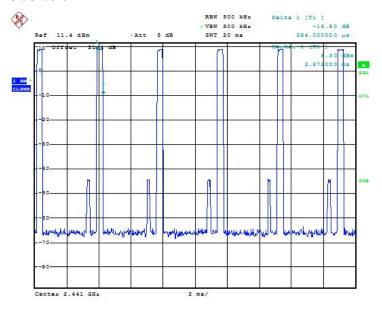
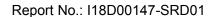


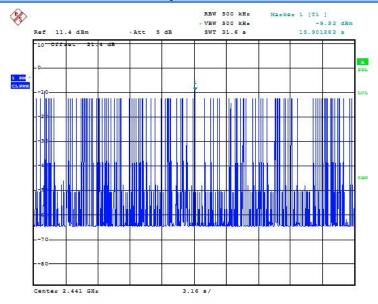
Fig.65 Time of occupancy (Dwell Time): Ch39, Packet DH1

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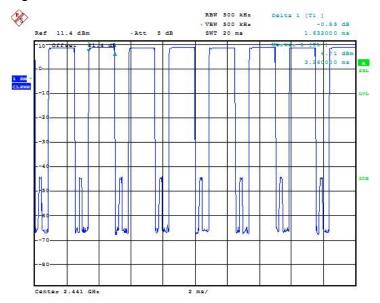
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Date: 10.SEP.2018 09:24:40

Fig.66 Number of Transmissions Measurement: Ch39, Packet DH1

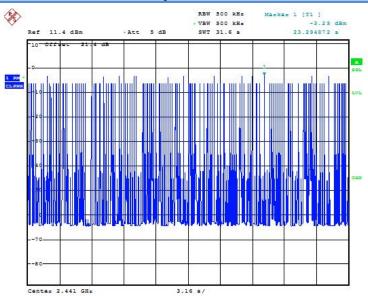


Date: 10.SEP.2018 09:25:08

Fig.67 Time of occupancy (Dwell Time): Ch39, Packet DH3

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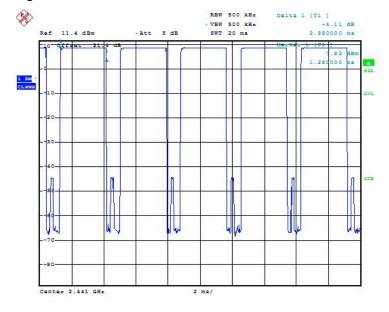
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Fig.68 Number of Transmissions Measurement: Ch39, Packet DH3

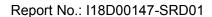


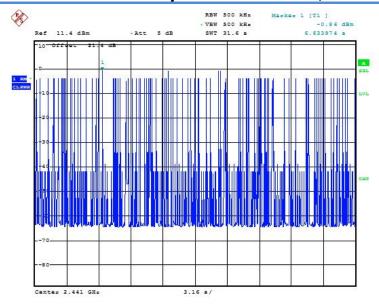
Date: 10.SEP.2018 09:26:38

Fig.69 Time of occupancy (Dwell Time): Ch39, Packet DH5

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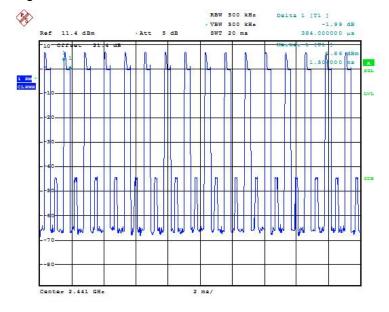
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Fig.70 Number of Transmissions Measurement: Ch39, Packet DH5

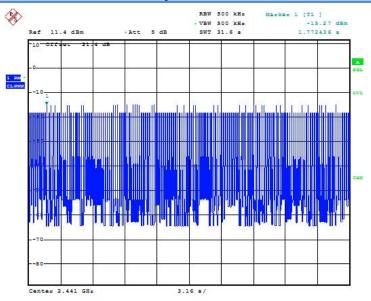


Date: 10.SEP.2018 09:28:07

Fig.71 Time of occupancy (Dwell Time): Ch39, Packet 2-DH1

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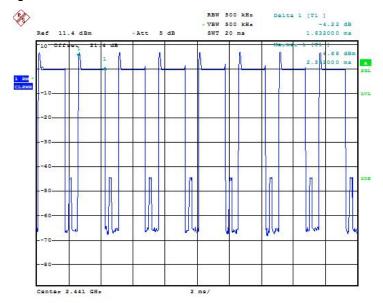
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Date: 10.SEP.2018 09:29:09

Fig.72 Number of Transmissions Measurement: Ch39, Packet 2-DH1

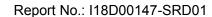


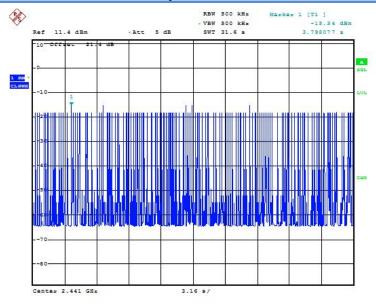
Date: 10.SEP.2018 09:29:38

Fig.73 Time of occupancy (Dwell Time): Ch39,Packet 2-DH3

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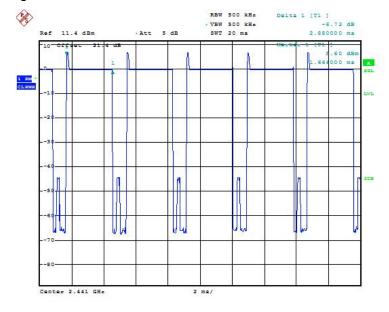
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Fig.74 Number of Transmissions Measurement: Ch39, Packet 2-DH3

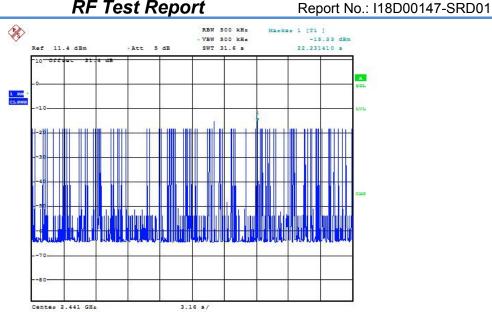


Date: 10.SEP.2018 09:31:08

Fig.75 Time of occupancy (Dwell Time): Ch39, Packet 2-DH5

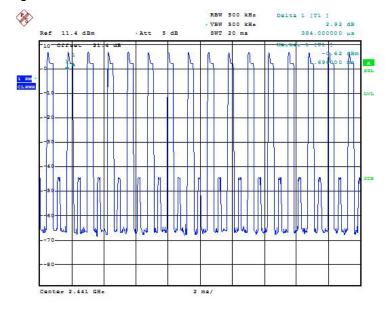
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Fig.76 Number of Transmissions Measurement: Ch39, Packet 2-DH5

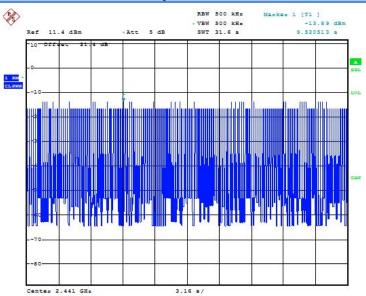


Date: 10.SEP.2018 09:32:38

Fig.77 Time of occupancy (Dwell Time): Ch39,Packet 3-DH1

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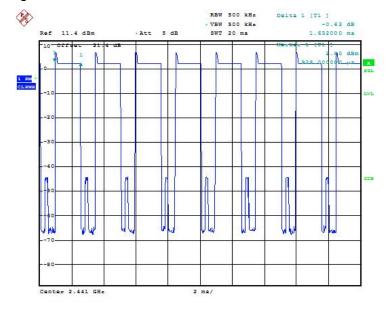
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Fig.78 Number of Transmissions Measurement: Ch39, Packet 3-DH1

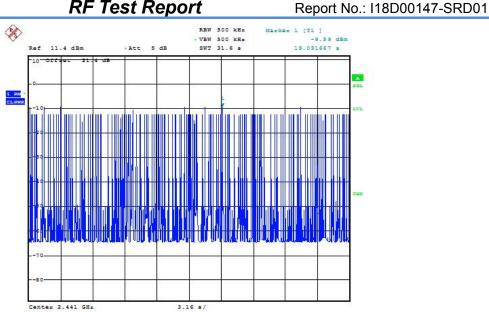


Date: 10.SEP.2018 09:34:07

Fig.79 Time of occupancy (Dwell Time): Ch39,Packet 3-DH3

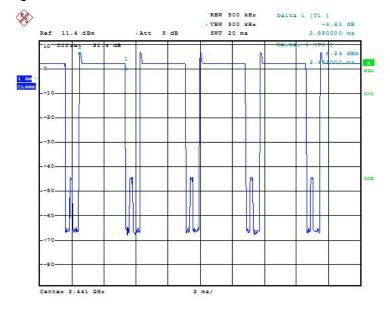
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Fig.80 Number of Transmissions Measurement: Ch39, Packet 3-DH3

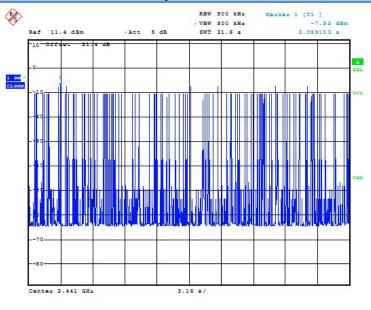


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Fig.81 Time of occupancy (Dwell Time): Ch39, Packet 3-DH5

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Fig.82 Number of Transmissions Measurement: Ch39, Packet 3-DH5

### 6.6. 20dB Bandwidth

#### 6.6.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a) (1)	N/A

### 6.6.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.7

- 1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit maximum power.
- 3. Set the spectrum analyzer as step 4 to step 7.
- 4. Span: two or five times of OBW
- 5. RBW= 1% to 5% of the OBW; VBW is approximately three times of RBW; Max Hold.
- 6. Select the max peak, and N DB DOWN=20dB.
- 7. Record the results.

#### **Measurement Result:**

### For GFSK

Channel	20dB Bandwidth (MHz)		Conclusion
0	Fig.83	1.034	Р

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39	Fig.84	1.034	Р
78	Fig.85	1.034	Р

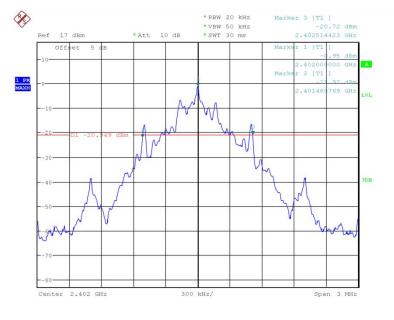
### For $\pi/4$ DQPSK

Channel	20dB Bandwidth (MHz)		Conclusion
0	Fig.86	1.183	Р
39	Fig.87	1.178	Р
78	Fig.88	1.183	Р

### For 8DPSK

Channel	20dB Bandwidth (MHz)		Conclusion
0	Fig.89	1.163	Р
39	Fig.90	1.173	Р
78	Fig.91	1.173	Р

## **Conclusion: PASS** Test graphs as below:



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Fig.83 20dB Bandwidth: GFSK, Ch0



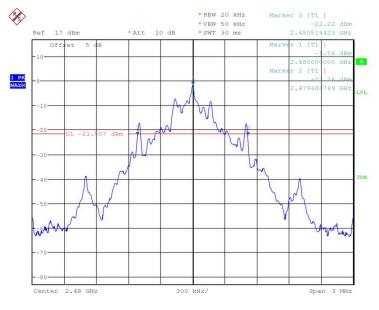
300 kHz/

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Center 2.441 GHz

Fig.84 20dB Bandwidth: GFSK, Ch39

Span 3 MHz

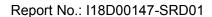


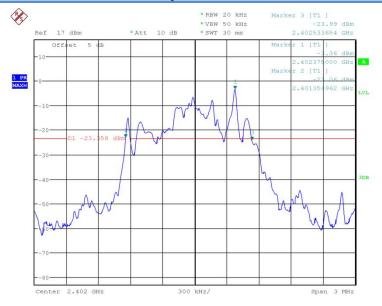
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Fig.85 20dB Bandwidth: GFSK, Ch78

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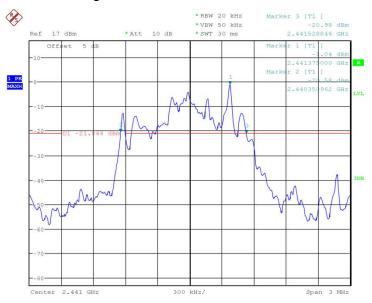
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Fig.86 20dB Bandwidth: π/4 DQPSK, Ch0



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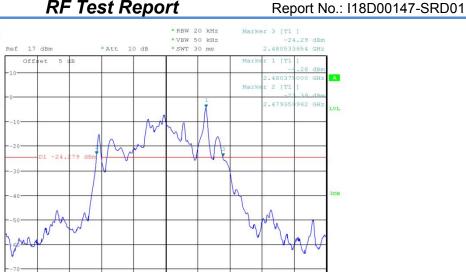
Fig.87 20dB Bandwidth:  $\pi/4$  DQPSK, Ch39

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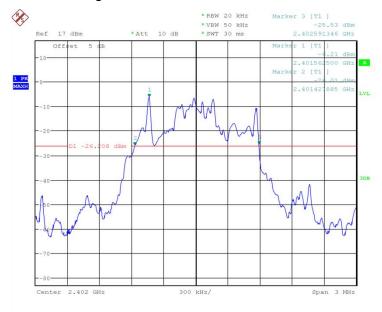
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Center 2.48 GHz

Fig.88 20dB Bandwidth:  $\pi/4$  DQPSK, Ch78

Span 3 MHz

300 kHz/

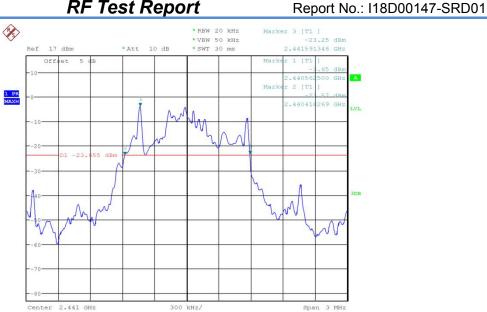


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Fig.89 20dB Bandwidth: 8DPSK, Ch0

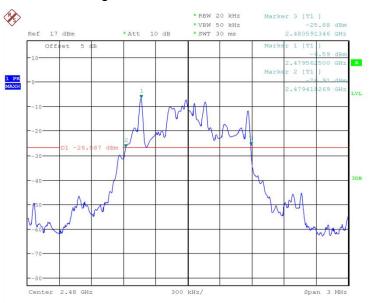
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Fig.90 20dB Bandwidth: 8DPSK, Ch39



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Fig.91 20dB Bandwidth: 8DPSK, Ch78

### 6.7. Carrier Frequency Separation

### **6.7.1 Measurement Limit:**

Standard	Limit (KHz)

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FCC 47 CFR Part 15.247 (a) (1)

Over 25KHz or (2/3)\*20dB bandwidth

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### 6.7.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.2.

- 1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit in hopping mode.
- 3. Span: Wide enough to capture the peaks of two adjacent channels.
- 4. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 5. Video (or average) bandwidth (VBW) ≥ RBW.
- 6. Sweep: Auto.
- 7. Detector function: Peak.
- 8. Trace: Max hold.
- 9. Allow the trace to stabilize.

### 6.7.3 Measurement Result:

#### For GFSK

Channel	Carrier separation (KHz)		Conclusion
39	Fig.92	1004.8077	Р

### For $\pi/4$ DQPSK

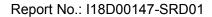
Channel	Carrier sepa	Conclusion	
39	Fig.93	1009.6154	Р

### For 8DPSK

Channel	Carrier sepa	Conclusion	
39	Fig.94	1009.6154	Р

Conclusion: PASS
Test graphs as below:

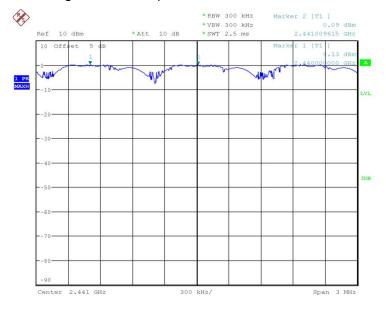
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Fig.92 Carrier separation measurement: GFSK, Ch39



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Fig.93 Carrier separation measurement: π/4 DQPSK, Ch39

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Fig.94 Carrier separation measurement: 8DPSK, Ch39

### 6.8. Number Of Hopping Channels

#### 6.8.1 Measurement Limit:

Standard	Limit		
FCC 47 CFR Part 15.247 (a)(1)(iii)	At least 15 non-overlapping channels		

### 6.8.2 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.3.

- 1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit in hopping mode.
- 3. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 4. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 5. VBW  $\geq$  RBW.
- 6. Sweep: Auto.
- 7. Detector function: Peak.
- 8. Trace: Max hold.
- 9. Allow the trace to stabilize.
- 10. Record the test rsults.



### 6.8.3 Measurement Result:

### For GFSK

Channel	Number of hop	Conclusion	
0~39	Fig.95	70	Р
40~78	Fig.96	79	Р

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### For π/4 DQPSK

Channel	Number of hop	Conclusion	
0~39	Fig.97	70	Р
40~78	Fig.98	79	Р

### For 8DPSK

Channel	Number of hop	Conclusion	
0~39	Fig.99	70	Р
40~78	Fig.100	79	Р

Conclusion: PASS
Test graphs as below:

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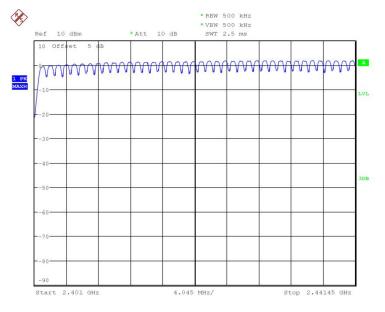
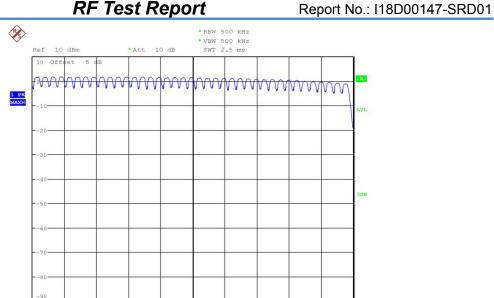


Fig.95 Number of hopping frequency: GFSK, Ch0~39

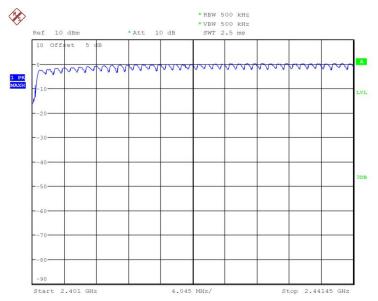


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Start 2.44145 GHz

Fig.96 Number of hopping frequency: GFSK, Ch40~78

Stop 2.481 GHz

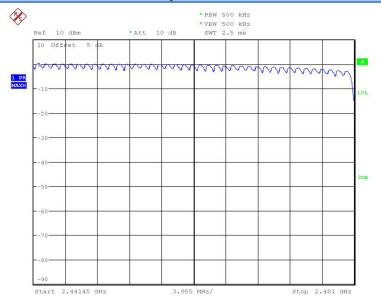


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Fig.97 Number of hopping frequency:  $\pi/4$  DQPSK, Ch0~39

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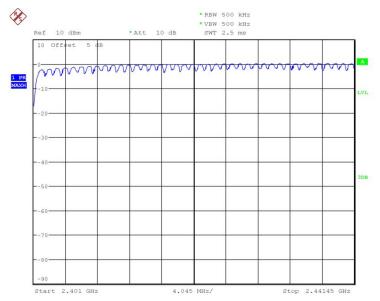
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Fig.98 Number of hopping frequency: π/4 DQPSK, Ch40~78

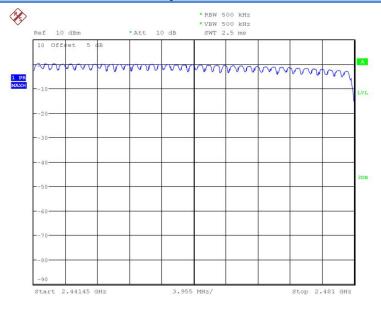


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Fig.99 Number of hopping frequency: 8DPSK, Ch0~39

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Fig. 100 Number of hopping frequency: 8DPSK, Ch40~78

#### 6.9. AC Powerline Conducted Emission

#### Method of Measurement: See ANSI C63.10-2013-clause 6.2

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a

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non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

### **Test Condition:**

Voltage (V)	Frequency (Hz)		
120	60		

### **Measurement Result and limit:**

(Quasi-peak-average Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) With charger	Conclusion
			ВТ	
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	Fig.101	Р
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### **Conclusion: Pass**

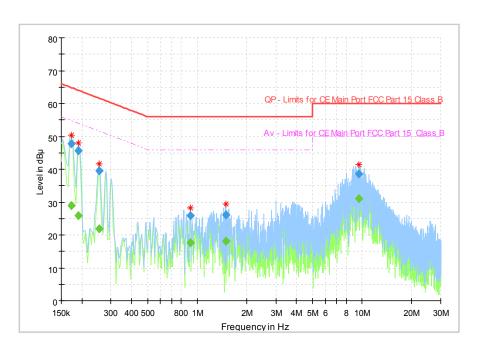


Fig.101 AC Powerline Conducted Emission

Frequency	QuasiPeak	Average	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(MHz)	(dB μ V)	(dB $\mu$ V)	(dB μ	(dB)	Time	(kHz)			(dB)

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0.172388		29.02	54.84	25.82	1000.0	9.000	L1	ON	9.7
0.172388	47.77		64.84	17.07	1000.0	9.000	L1	ON	9.7
0.191044		25.94	53.99	28.05	1000.0	9.000	L1	ON	9.7
0.191044	45.53		63.99	18.46	1000.0	9.000	L1	ON	9.7
0.254475	39.63		61.61	21.98	1000.0	9.000	N	ON	9.7
0.254475		22.00	51.61	29.61	1000.0	9.000	N	ON	9.7
0.907444		17.58	46.00	28.42	1000.0	9.000	N	ON	9.7
0.907444	25.88		56.00	30.12	1000.0	9.000	N	ON	9.7
1.485788		18.06	46.00	27.94	1000.0	9.000	N	ON	9.7
1.485788	26.03		56.00	29.97	1000.0	9.000	N	ON	9.7
9.560212	38.60		60.00	21.40	1000.0	9.000	L1	ON	9.8
9.560212		31.09	50.00	18.91	1000.0	9.000	L1	ON	9.8

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## 7. Test Equipment and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

### Conducted test system

No.	Equipmen Model		Serial	Manufactur	Calibration	Cal.interval	
140.	t	Wiodei	Number	er	date	Jai.iiitei vai	
1	Vector	FSQ26	101091	Rohde&Sch	2018-05-11	1 Year	
	Signal	1 3020	101091	warz	2010-03-11		
2	DC Power	ZUP60-14	LOC-220Z0	TDL-Lambd	2018-05-11	1 Voor	
	Supply	20700-14	06	а	2016-05-11	1 Year	
3	Bluetooth	CBT32	100785	Rohde&Sch	2018-05-11	1 Year	
L°	Tester	CDISZ	100765	warz	2010-05-11	i icai	

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## Radiated emission test system

No.	Equipment	Model	Serial Number	Manufactu rer	Calibration date	Cal.interval
1	Universal Radio Communication Tester	CMU20 0	123123	R&S	2018-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2018-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9 163	VULB916 3-515	Schwarzbe ck	2017-02-25	3 Year
4	Double- ridged Waveguide Antenna	ETS-31 17	0013589 0	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV21 6	101380	R&S	2018-05-11	1 Year

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### **Anechoic chamber**

Fully anechoic chamber by Frankonia German.

### 8. Test Environment

**Shielding Room1** (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

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Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Telative Hammary	Will. – 20 76, Wax. – 10 76
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5

**Control room** did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =30 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 k
Ground system resistance	< 0.5

**Fully-anechoic chamber1** (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 k
Ground system resistance	< 0.5
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

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## **ANNEX A.** Deviations from Prescribed Test Methods

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No deviation from Prescribed Test Methods.

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### **ANNEX B.** Accreditation Certificate



# **Accredited Laboratory**

A2LA has accredited

### EAST CHINA INSTITUTE OF TELECOMMUNICATIONS

Shanghai, People's Republic of China

for technical competence in the field of

### **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 15th day of March 2017.

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President and CEO For the Accreditation Council Certificate Number 3682.01 Valid to February 28, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

\*\*\*\*\*\*\*END OF REPORT\*\*\*\*\*\*\*

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