





Appendix H): Pseudorandom Frequency Hopping Sequence

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) requirement:

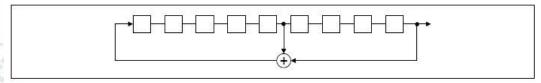
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

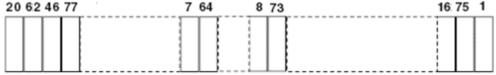
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

- · Number of shift register stages: 9
- Length of pseudo-random sequence: 29 -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.

The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.





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Appendix I): Antenna Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1dBi.







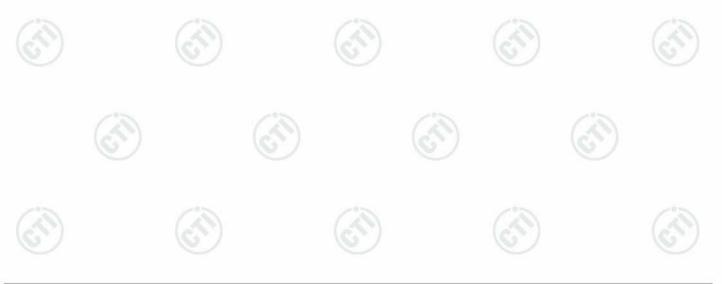
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Appendix J): AC Power Line Conducted Emission

Test Procedure:	Test frequency range :150KHz		onducted in a shield	led room
	2) The EUT was connected to Stabilization Network) which power cables of all other under which was bonded to the graph for the unit being measured multiple power cables to a sexceeded.	AC power source thresh provides a 50Ω/50 nits of the EUT were round reference planed. A multiple socket of single LISN provided to	ough a LISN 1 (Line uH + 5Ω linear imp connected to a sec in the same way a outlet strip was use he rating of the LIS	e Impedance edance. The cond LISN 2, s the LISN 1 d to connect N was not
	3)The tabletop EUT was place reference plane. And for flo horizontal ground reference	or-standing arrangem		•
	4) The test was performed wit EUT shall be 0.4 m from the reference plane was bonde 1 was placed 0.8 m from the ground reference plane for plane. This distance was be All other units of the EUT at LISN 2.	e vertical ground refer to to the horizontal gro the boundary of the u or LISNs mounted o etween the closest po	rence plane. The verbund reference pland init under test and in top of the groundints of the LISN 1 are	rtical ground ne. The LISN bonded to a nd reference and the EUT.
	5) In order to find the maximum of the interface cables must			
	conducted measurement.			
Limit:	(6,5)		(C)	\neg
	Frequency range (MHz)	Limit (c	lΒμV)	
	requeries rainge (iiii iz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	(10)
	5-30	60	50	
	* The limit decreases linearly	with the legarithm of	the frequency in the	

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



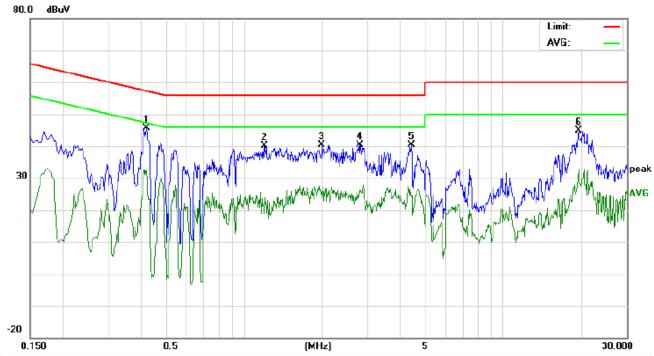








Live line:



No.	Freq.		ding_Le dBuV)	vel	Correct Factor	N	leasuren (dBuV)	NUMBER OF THE PARTY OF THE PART		nit uV)		rgin dB)		
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.4218	35.72	31.40	22.57	9.90	45.62	41.30	32.47	57.41	47.41	-16.11	-14.94	Р	
2	1.2016	30.13	27.40	11.42	10.00	40.13	37.40	21.42	56.00	46.00	-18.60	-24.58	Р	
3	2.0059	30.39	26.00	14.73	10.00	40.39	36.00	24.73	56.00	46.00	-20.00	-21.27	P	
4	2.8220	30.43	26.10	16.09	10.00	40.43	36.10	26.09	56.00	46.00	-19.90	-19.91	Р	
5	4.4378	30.36	25.30	14.04	10.00	40.36	35.30	24.04	56.00	46.00	-20.70	-21.96	Р	
6	19.5536	34.43	30.00	21.84	10.46	44.89	40.46	32.30	60.00	50.00	-19.54	-17.70	P	





































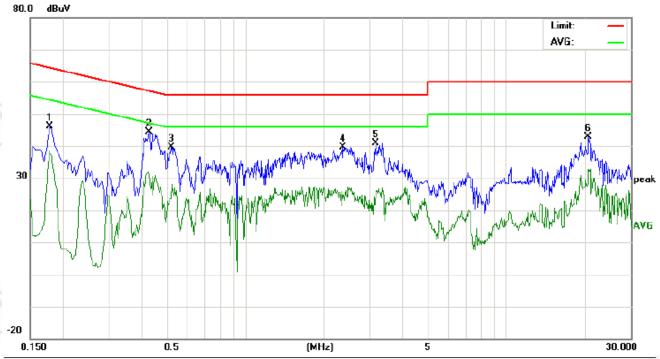








Neutral line:



No.	Freq.		ding_Le dBuV)	vel	Correct Factor	N	leasuren (dBuV)		Lin (dB			rgin dB)		
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1779	36.43	32.40	28.78	9.80	46.23	42.20	38.58	64.58	54.58	-22.38	-16.00	P	
2	0.4299	34.55	31.50	21.28	9.90	44.45	41.40	31.18	57.25	47.25	-15.85	-16.07	Р	
3	0.5220	29.68	24.60	13.73	9.90	39.58	34.50	23.63	56.00	46.00	-21.50	-22.37	P	
4	2.3780	29.67	25.00	14.91	10.00	39.67	35.00	24.91	56.00	46.00	-21.00	-21.09	P	
5	3.1699	30.94	26.30	15.86	10.00	40.94	36.30	25.86	56.00	46.00	-19.70	-20.14	P	
6	20.6060	32.30	28.00	22.45	10.49	42.79	38.49	32.94	60.00	50.00	-21.51	-17.06	P	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





































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Appendix K): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:		Frequency	Detector	RBW	VBW	Remark
Table Colup.		30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
		001VII 12-1 01 12	Peak	1MHz	3MHz	Peak
	-	Above 1GHz	Peak	1MHz	10Hz	Average
•)		(6	1 car	11011 12	10112	Average
Test Procedure:		low 1GHz test proced		16		(6)
	a. b. c. d. e. f.	The EUT was placed at a 3 meter semi-and determine the position. The EUT was set 3 m was mounted on the firm the antenna height is determine the maximum polarizations of the arrivations of the arrivation	echoic camber. The of the highest rate of the highest rate of the field of the field to heights from the field the highest hight highest highest h	ne table wandiation. the interfer neight anter meter to for eld strength make the r was arran 1 meter to 0 degrees to eak Detect eted band of easure any	ence-receinna tower. Four meters Consumers Con	ving antenna, whi above the ground rizontal and vertica ent. worst case and the and the rotatable maximum reading nd Specified
	Ab g. h. i.	Different between about of fully Anechoic Chameter (Above 18GHz b. Test the EUT in the The radiation measur Transmitting mode, a Repeat above proced	ove is the test site mber and change the distance is 1 e lowest channel, ements are perfor and found the X ax	form table meter and the Highermed in X, its position	e 0.8 meter table is 1.5 st channel Y, Z axis p ing which i	to 1.5 meter). cositioning for t is worse case.
Limit:	<u>J.</u>				I	mark
		Frequency 30MHz-88MHz	Limit (dBµV/			eak Value
		88MHz-216MHz	43.5	/	- '\	eak Value
	1 1	JOIVII 12-2 I UIVII 12			· ·	
		216MHz-060MHz	16.0			aak Value
		216MHz-960MHz	46.0		· ·	eak Value
		216MHz-960MHz 960MHz-1GHz	46.0 54.0 54.0)	Quasi-pe	eak Value eak Value je Value

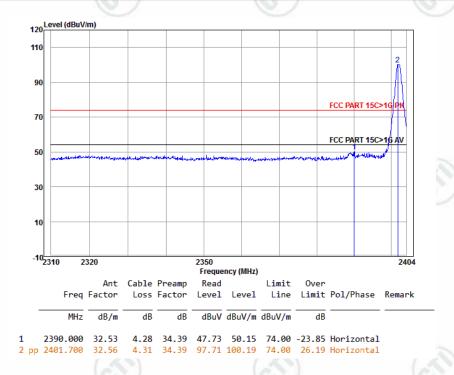




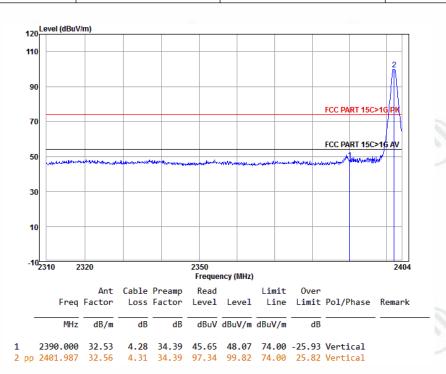
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Test plot as follows:

Worse case mode:	GFSK(1-DH5)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



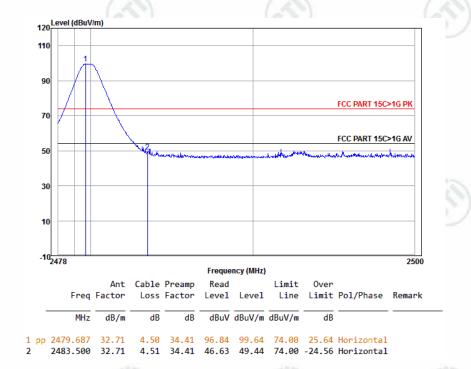
Worse case mode:	GFSK(1-DH5)			
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak	



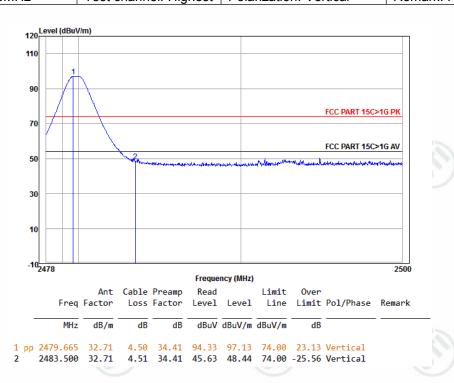


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Worse case mode:	GFSK(1-DH5)			
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak	



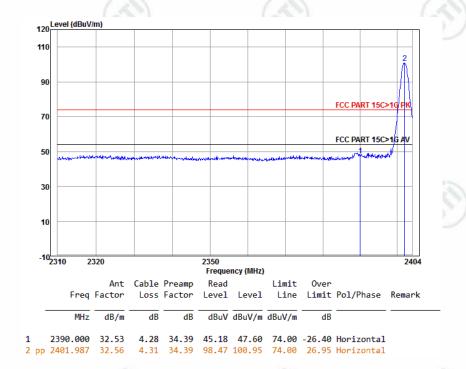
Worse case mode:	GFSK(1-DH5)	(20)	(30)	
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak	



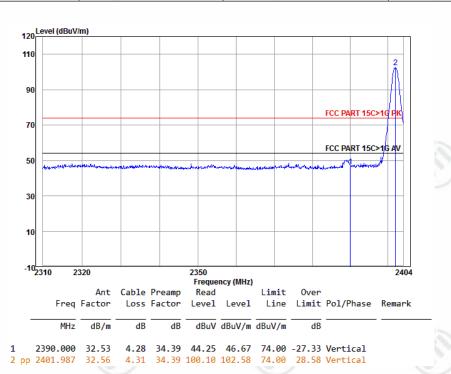


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Worse case mode:	π/4DQPSK(2-DH5)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



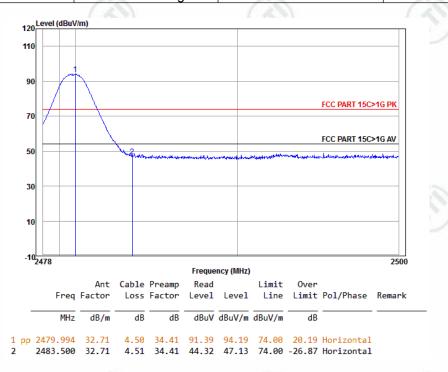
Worse case mode:	π/4DQPSK(2-DH5)	(20)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak	



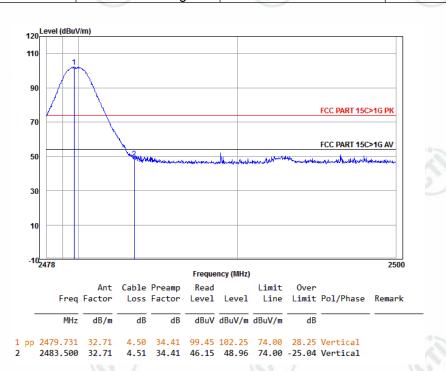


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Worse case mode:	π/4DQPSK(2-DH5)			
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak	



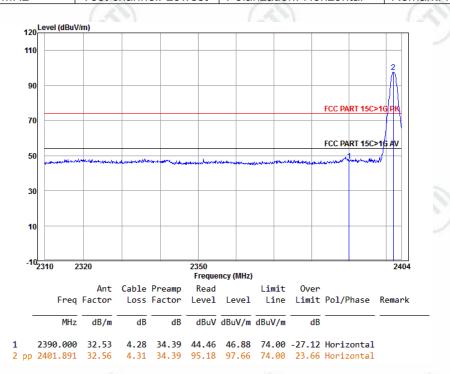
Worse case mode:	π/4DQPSK(2-DH5)			
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak	



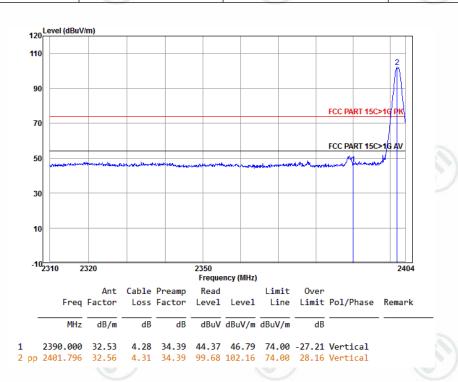


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Worse case mode:	8DPSK(3-DH5)		
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



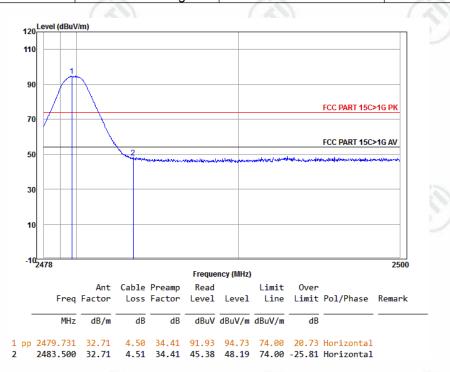
Worse case mode:	8DPSK(3-DH5)			
Frequency: 2390.0MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak	



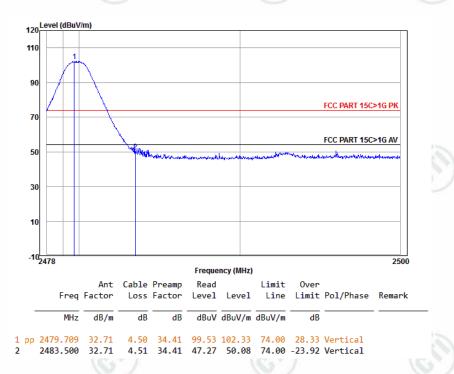


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Worse case mode:	8DPSK(3-DH5)		
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak



Worse case mode:	8DPSK(3-DH5)			
Frequency: 2483.5MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak	



Note:

1) Through Pre-scan transmitter mode with all kind of modulation and all kind of data type, find the 1-DH5 of data type is the worse case of GFSK modulation type, the 2-DH5 of data type is the worse case of $\pi/4DQPSK$ modulation type, the 3-DH5 of data type is the worse case of 8DPSKmodulation type in transmitter mode.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor









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Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor































































































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Appendix L): Radiated Spurious Emissions

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 4011	Peak	1MHz	3MHz	Peak
Above 1GHz	Peak	1MHz	10Hz	Average

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	- /	- N	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



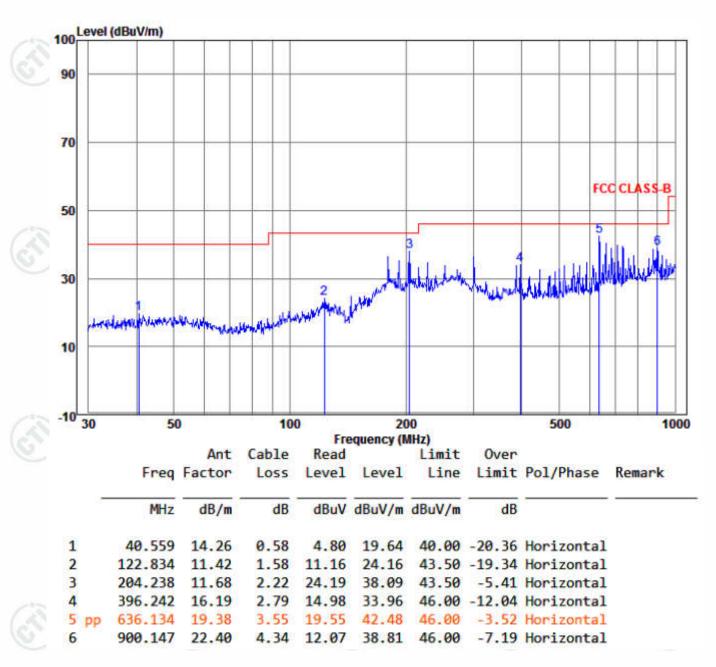


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Radiated Spurious Emissions test Data:

Radiated Emission below 1GHz

30MHz~1GHz (QP)	(2)	
Test mode:	Transmitting	Horizontal



















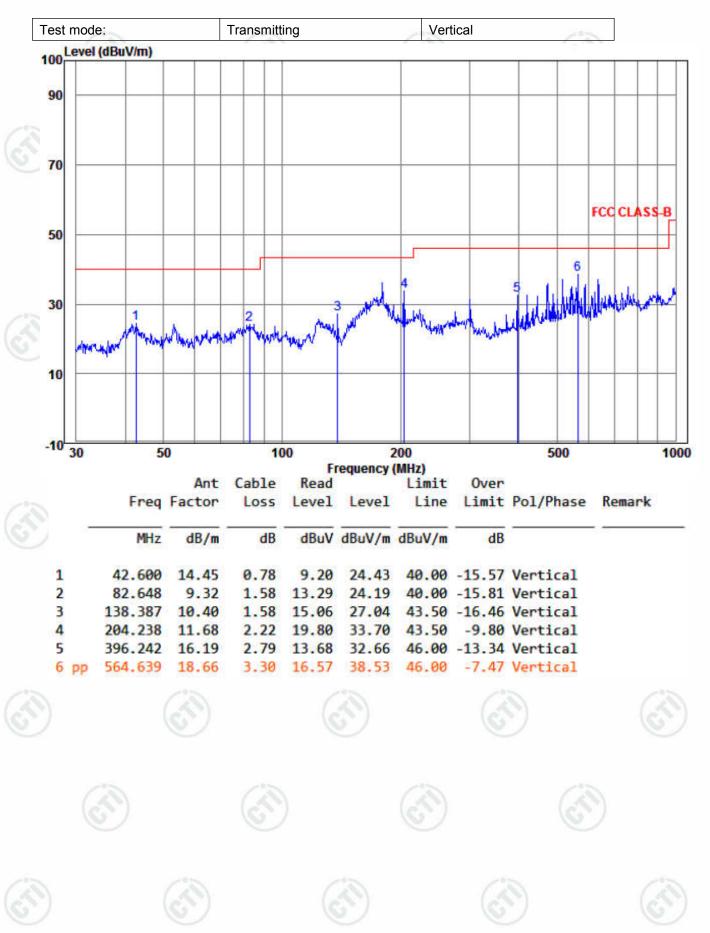














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Transmitter Emission above 1GHz

Worse case	mode:	GFSK(1-DI	H5)	Test char	nnel:	Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1235.257	30.31	2.56	34.93	44.96	42.90	74	-31.10	Pass	H
1800.416	31.40	3.08	34.44	44.18	44.22	74	-29.78	Pass	Н
3445.704	33.21	5.53	34.55	41.97	46.16	74	-27.84	Pass	Н
4804.000	34.69	5.11	34.35	41.42	46.87	74	-27.13	Pass	Н
7206.000	36.42	6.66	34.90	40.70	48.88	74	-25.12	Pass	Н
9608.000	37.88	7.73	35.08	37.35	47.88	74	-26.12	Pass	Н
1156.150	30.12	2.46	35.01	45.03	42.60	74	-31.40	Pass	V
1938.352	31.61	3.19	34.34	44.24	44.70	74	-29.30	Pass	V
2957.654	33.53	5.54	34.49	43.09	47.67	74	-26.33	Pass	V
4804.000	34.69	5.11	34.35	42.21	47.66	74	-26.34	Pass	V
7206.000	36.42	6.66	34.90	40.88	49.06	74	-24.94	Pass	V
9608.000	37.88	7.73	35.08	36.89	47.42	74	-26.58	Pass	V

Worse case	mode:	GFSK(1-D	H5)	Test char	nnel:	Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1153.210	30.11	2.46	35.01	44.45	42.01	74	-31.99	Pass	~°±
1800.416	31.40	3.08	34.44	45.11	45.15	74	-28.85	Pass	(H)
2942.635	33.51	5.51	34.49	43.90	48.43	74	-25.57	Pass	H
4882.000	34.85	5.08	34.33	42.00	47.60	74	-26.40	Pass	Н
7323.000	36.43	6.77	34.90	39.87	48.17	74	-25.83	Pass	Н
9764.000	38.05	7.60	35.05	37.95	48.55	74	-25.45	Pass	Н
1303.086	30.46	2.63	34.86	44.70	42.93	74	-31.07	Pass	V
2092.175	31.91	3.50	34.32	43.30	44.39	74	-29.61	Pass	V
3128.013	33.48	5.59	34.51	44.40	48.96	74	-25.04	Pass	V
4882.000	34.85	5.08	34.33	41.46	47.06	74	-26.94	Pass	V
7323.000	36.43	6.77	34.90	41.15	49.45	74	-24.55	Pass	V
9764.000	38.05	7.60	35.05	38.55	49.15	74	-24.85	Pass	V















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Worse case	mode:	GFSK(1-DI	H5)	Test chann	nel:	Highest	Highest Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1257.465	30.36	2.58	34.90	48.02	46.06	74	-27.94	Pass	Н
1741.812	31.30	3.04	34.48	45.32	45.18	74	-28.82	Pass	Н
3728.625	33.00	5.48	34.58	45.02	48.92	74	-25.08	Pass	H
4960.000	35.02	5.05	34.31	41.83	47.59	74	-26.41	Pass	H
7440.000	36.45	6.88	34.90	40.34	48.77	74	-25.23	Pass	Н
9920.000	38.22	7.47	35.02	38.26	48.93	74	-25.07	Pass	Н
1232.117	30.30	2.55	34.93	43.80	41.72	74	-32.28	Pass	V
1655.354	31.15	2.97	34.55	44.15	43.72	74	-30.28	Pass	V
3072.770	33.53	5.61	34.51	44.19	48.82	74	-25.18	Pass	V
4960.000	35.02	5.05	34.31	40.98	46.74	74	-27.26	Pass	V
7440.000	36.45	6.88	34.90	39.89	48.32	74	-25.68	Pass	V
9920.000	38.22	7.47	35.02	37.53	48.20	74	-25.80	Pass	V

Worse case	mode:	π/4DQPSk	((2-DH5)	Test char	inel:	Lowest	Remark: Po	eak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1165.013	30.14	2.47	35.00	44.75	42.36	74	-31.64	Pass	Н
1795.839	31.39	3.08	34.44	43.94	43.97	74	-30.03	Pass	Н
3160.026	33.46	5.59	34.52	44.02	48.55	74	-25.45	Pass	Н
4804.000	34.69	5.11	34.35	42.33	47.78	74	-26.22	Pass	H
7206.000	36.42	6.66	34.90	40.87	49.05	74	-24.95	Pass	©н′
9608.000	37.88	7.73	35.08	38.01	48.54	74	-25.46	Pass	Н
1132.844	30.06	2.43	35.04	45.72	43.17	74	-30.83	Pass	V
1832.785	31.45	3.11	34.41	44.68	44.83	74	-29.17	Pass	V
3216.838	33.41	5.58	34.52	44.98	49.45	74	-24.55	Pass	V
4804.000	34.69	5.11	34.35	42.96	48.41	74	-25.59	Pass	V
7206.000	36.42	6.66	34.90	41.15	49.33	74	-24.67	Pass	V
9608.000	37.88	7.73	35.08	37.93	48.46	74	-25.54	Pass	V















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Worse case mode: π/4DQPS			((2-DH5)	Test char	nnel:	Middle Remark: Peak			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1204.210	30.24	2.52	34.96	45.96	43.76	74	-30.24	Pass	Н
1659.574	31.16	2.97	34.54	43.50	43.09	74	-30.91	Pass	Н
3472.118	33.19	5.53	34.55	43.59	47.76	74	-26.24	Pass	Н
4882.000	34.85	5.08	34.33	42.28	47.88	74	-26.12	Pass	(H
7323.000	36.43	6.77	34.90	40.63	48.93	74	-25.07	Pass	Н
9764.000	38.05	7.60	35.05	37.42	48.02	74	-25.98	Pass	Н
1296.469	30.45	2.62	34.86	44.02	42.23	74	-31.77	Pass	V
1923.606	31.59	3.18	34.35	44.04	44.46	74	-29.54	Pass	V
3376.244	33.27	5.55	34.54	43.17	47.45	74	-26.55	Pass	V
4882.000	34.85	5.08	34.33	41.87	47.47	74	-26.53	Pass	V
7323.000	36.43	6.77	34.90	40.90	49.20	74	-24.80	Pass	V
9764.000	38.05	7.60	35.05	37.45	48.05	74	-25.95	Pass	V

Worse case	mode:	π/4DQPSk	((2-DH5)	Test char	nel:	Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1176.935	30.17	2.49	34.99	44.18	41.85	74	-32.15	Pass	Н
1818.842	31.43	3.10	34.42	44.52	44.63	74	-29.37	Pass	Н
3579.815	33.11	5.51	34.56	43.32	47.38	74	-26.62	Pass	Н
4960.000	35.02	5.05	34.31	41.29	47.05	74	-26.95	Pass	H
7440.000	36.45	6.88	34.90	41.17	49.60	74	-24.40	Pass	©н′
9920.000	38.22	7.47	35.02	38.20	48.87	74	-25.13	Pass	Н
1216.534	30.27	2.53	34.95	44.46	42.31	74	-31.69	Pass	V
1759.638	31.33	3.05	34.47	43.52	43.43	74	-30.57	Pass	V
3428.206	33.23	5.54	34.55	41.99	46.21	74	-27.79	Pass	V
4960.000	35.02	5.05	34.31	42.88	48.64	74	-25.36	Pass	V
7440.000	36.45	6.88	34.90	40.02	48.45	74	-25.55	Pass	V
9920.000	38.22	7.47	35.02	37.98	48.65	74	-25.35	Pass	V





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Worse case	mode:	8DPSK(3-0	DH5)	Test char	nnel:	Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1388.708	30.65	2.72	34.77	44.40	43.00	74	-31.00	Pass	Н
1837.456	31.46	3.11	34.41	44.56	44.72	74	-29.28	Pass	Н
3266.346	33.36	5.57	34.53	44.24	48.64	74	-25.36	Pass	C H
4804.000	34.69	5.11	34.35	42.31	47.76	74	-26.24	Pass	H
7206.000	36.42	6.66	34.90	39.93	48.11	74	-25.89	Pass	Н
9608.000	37.88	7.73	35.08	37.27	47.80	74	-26.20	Pass	Н
1260.670	30.37	2.58	34.90	48.90	46.95	74	-27.05	Pass	V
1617.862	31.09	2.93	34.58	46.37	45.81	74	-28.19	Pass	V
3283.018	33.35	5.56	34.53	43.85	48.23	74	-25.77	Pass	V
4804.000	34.69	5.11	34.35	42.61	48.06	74	-25.94	Pass	V
7206.000	36.42	6.66	34.90	40.93	49.11	74	-24.89	Pass	V
9608.000	37.88	7.73	35.08	37.74	48.27	74	-25.73	Pass	V

Worse case mode:		8DPSK(3-DH5)		Test channel:		Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1207.279	30.24	2.52	34.96	44.90	42.70	74	-31.30	Pass	Н
1768.619	31.35	3.06	34.46	44.64	44.59	74	-29.41	Pass	Н
3160.026	33.46	5.59	34.52	44.20	48.73	74	-25.27	Pass	- Н
4882.000	34.85	5.08	34.33	42.52	48.12	74	-25.88	Pass	H)
7323.000	36.43	6.77	34.90	39.98	48.28	74	-25.72	Pass	Н
9764.000	38.05	7.60	35.05	38.14	48.74	74	-25.26	Pass	Н
1219.635	30.27	2.54	34.94	45.17	43.04	74	-30.96	Pass	V
1933.424	31.60	3.18	34.34	44.55	44.99	74	-29.01	Pass	V
3653.463	33.05	5.50	34.57	43.21	47.19	74	-26.81	Pass	V
4882.000	34.85	5.08	34.33	43.11	48.71	74	-25.29	Pass	V
7323.000	36.43	6.77	34.90	41.30	49.60	74	-24.40	Pass	V
9764.000	38.05	7.60	35.05	37.53	48.13	74	-25.87	Pass	V















Worse case	mode:	8DPSK(3-D	DH5)	Test char	nnel:	Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1107.186	29.99	2.40	35.07	44.78	42.10	74	-31.90	Pass	Н
1973.201	31.66	3.21	34.32	43.30	43.85	74	-30.15	Pass	Н
3973.622	32.82	5.44	34.60	41.73	45.39	74	-28.61	Pass	H
4960.000	35.02	5.05	34.31	40.03	45.79	74	-28.21	Pass	H
7440.000	36.45	6.88	34.90	39.10	47.53	74	-26.47	Pass	Н
9920.000	38.22	7.47	35.02	36.65	47.32	74	-26.68	Pass	Н
1198.095	30.22	2.51	34.97	48.42	46.18	74	-27.82	Pass	V
1630.264	31.11	2.94	34.57	43.34	42.82	74	-31.18	Pass	V
3653.463	33.05	5.50	34.57	42.25	46.23	74	-27.77	Pass	V
4960.000	35.02	5.05	34.31	40.64	46.40	74	-27.60	Pass	V
7440.000	36.45	6.88	34.90	39.06	47.49	74	-26.51	Pass	V
9920.000	38.22	7.47	35.02	36.68	47.35	74	-26.65	Pass	V

Note:

- 1) Pre-scan transmitting mode with all kind of modulation and all kind of data type, find the 1-DH5 of data type is the worse case of GFSK modulation type, the 2-DH5 of data type is the worse case of $\pi/4DQPSK$ modulation type, the 3-DH5 of data type is the worse case of 8DPSKmodulation type in transmitter mode.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

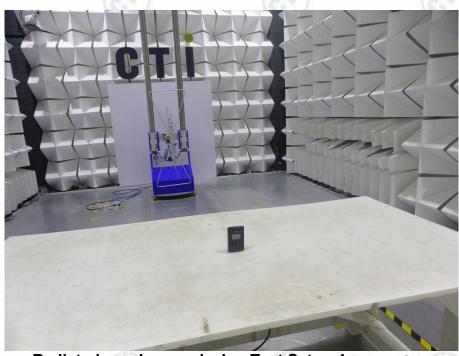




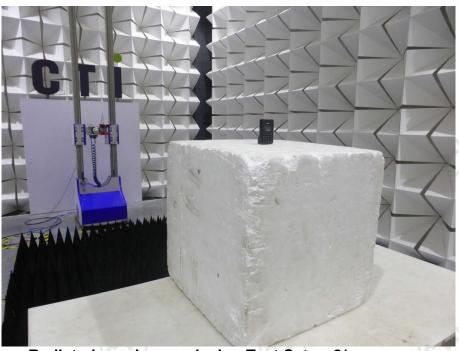
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PHOTOGRAPHS OF TEST SETUP

Test mode No.: WisePad 2



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)



















Report No.: EED32I00208213







Conducted Emissions Test Setup

























































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PHOTOGRAPHS OF EUT Constructional Details

Test model No.: WisePad 2



View of Product-1



View of Product-2



View of Product-3



View of Product-4



View of Product-5



View of Product-6







View of Product-7



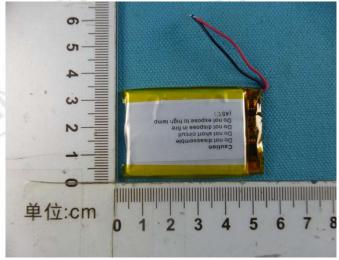
View of Product-8



View of Product-9



View of Product-10



View of Product-11



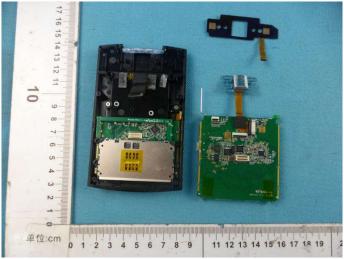
View of Product-12



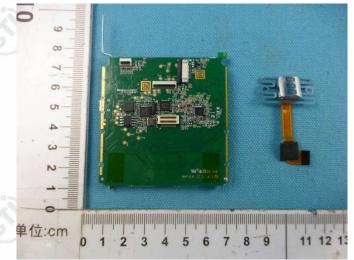




View of Product-13



View of Product-14



View of Product-15



View of Product-16



View of Product-17

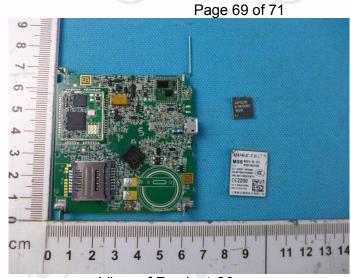


View of Product-18

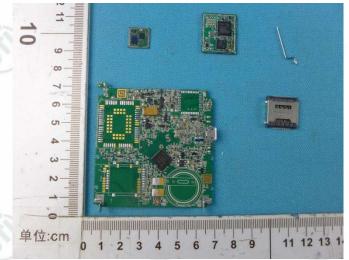




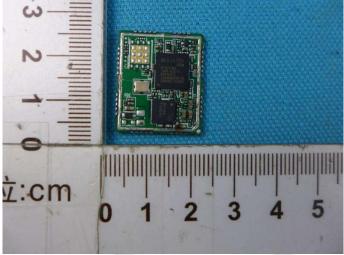
View of Product-19



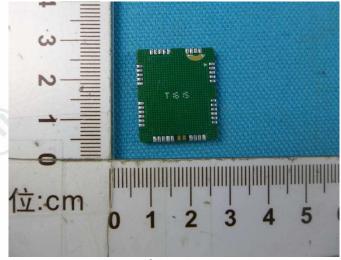
View of Product-20



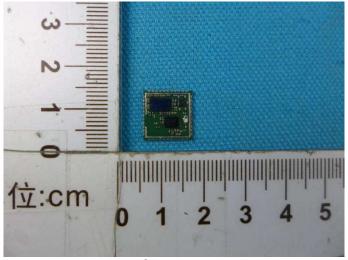
View of Product-21



View of Product-22



View of Product-23



View of Product-24





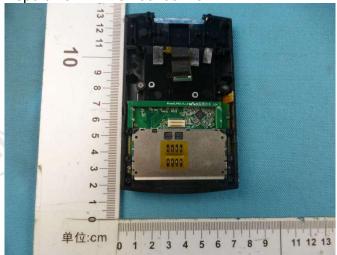




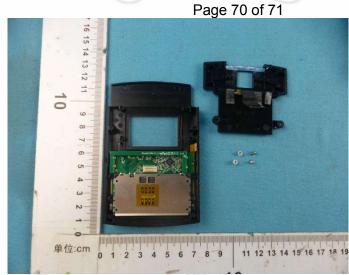








View of Product-25



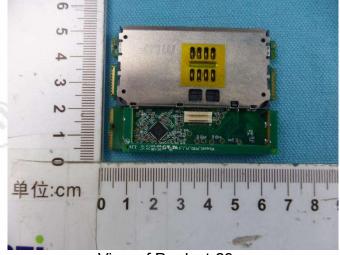
View of Product-26



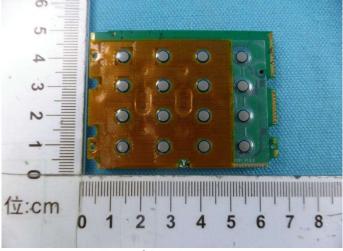
View of Product-27



View of Product-28



View of Product-29



View of Product-30



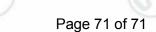


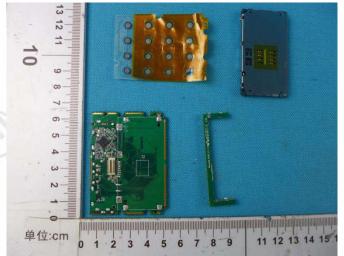








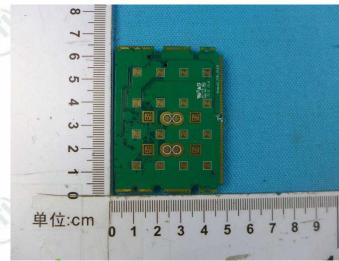




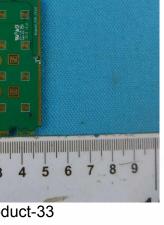
单位:cm

View of Product-31

View of Product-32



View of Product-33





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