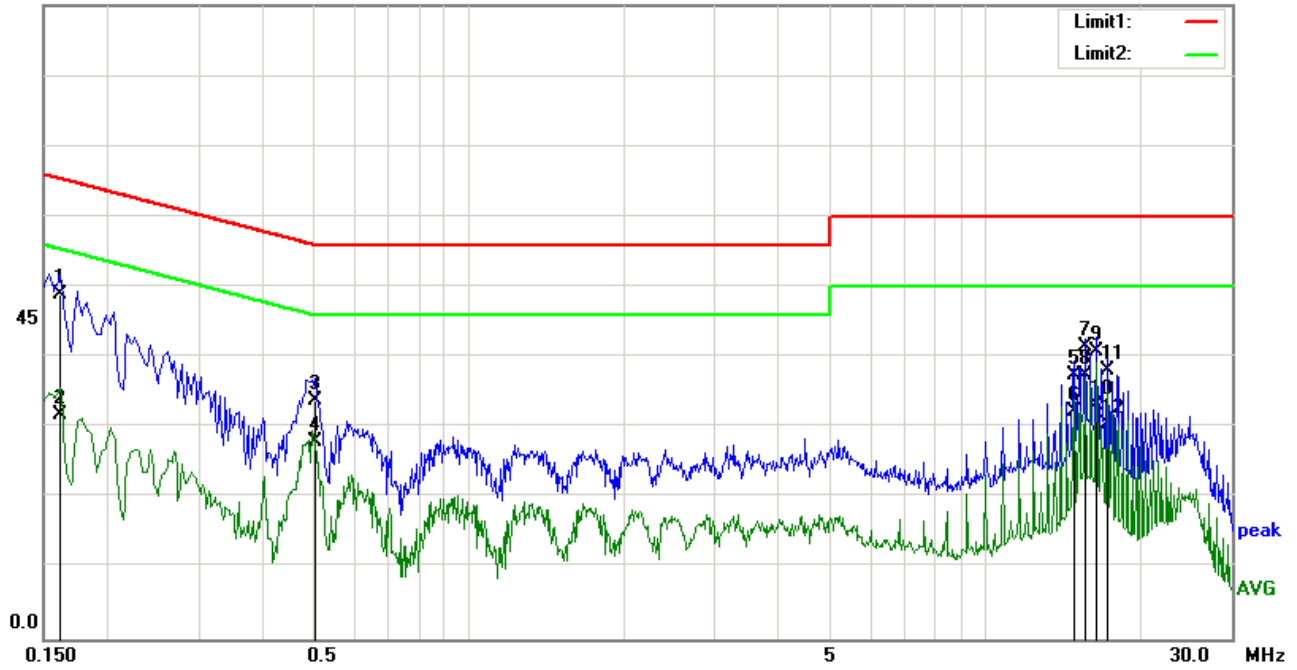


Test Mode : Transmit Mode (Middle Channel)

90.0 dBuV

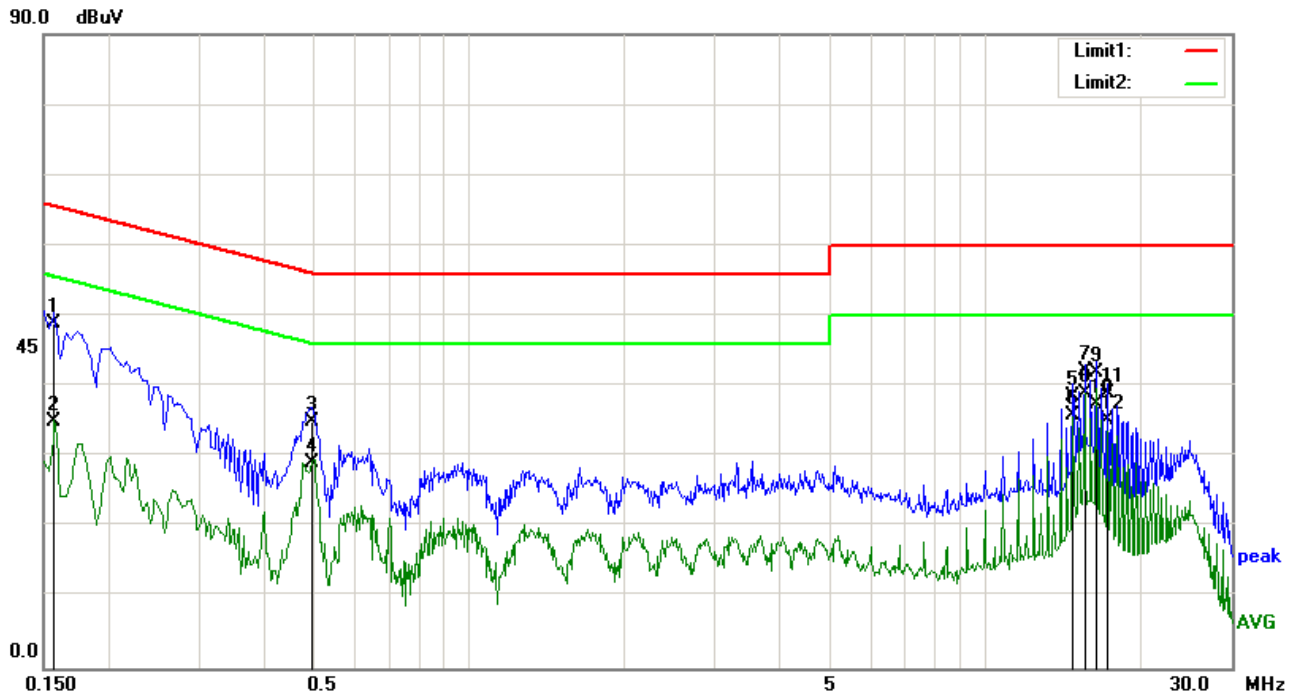


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1620	38.45	QP	0.10	-10.00	0.34	48.89	65.36	-16.47
2	0.1620	21.38	AVG	0.10	-10.00	0.34	31.82	55.36	-23.54
3	0.5060	23.64	QP	0.12	-10.00	0.21	33.97	56.00	-22.03
4	0.5060	17.65	AVG	0.12	-10.00	0.21	27.98	46.00	-18.02
5	14.8300	26.21	QP	0.85	-10.00	0.47	37.53	60.00	-22.47
6	14.8300	21.04	AVG	0.85	-10.00	0.47	32.36	50.00	-17.64
7	15.6340	30.19	QP	0.89	-10.00	0.47	41.55	60.00	-18.45
8	15.6340	26.14	AVG	0.89	-10.00	0.47	37.50	50.00	-12.50
9	16.4340	29.38	QP	0.92	-10.00	0.48	40.78	60.00	-19.22
10	16.4340	21.78	AVG	0.92	-10.00	0.48	33.18	50.00	-16.82
11	17.2340	26.63	QP	0.96	-10.00	0.49	38.08	60.00	-21.92
12	17.2340	19.04	AVG	0.96	-10.00	0.49	30.49	50.00	-19.51

Test Mode :	Transmit Mode (Middle Channel)
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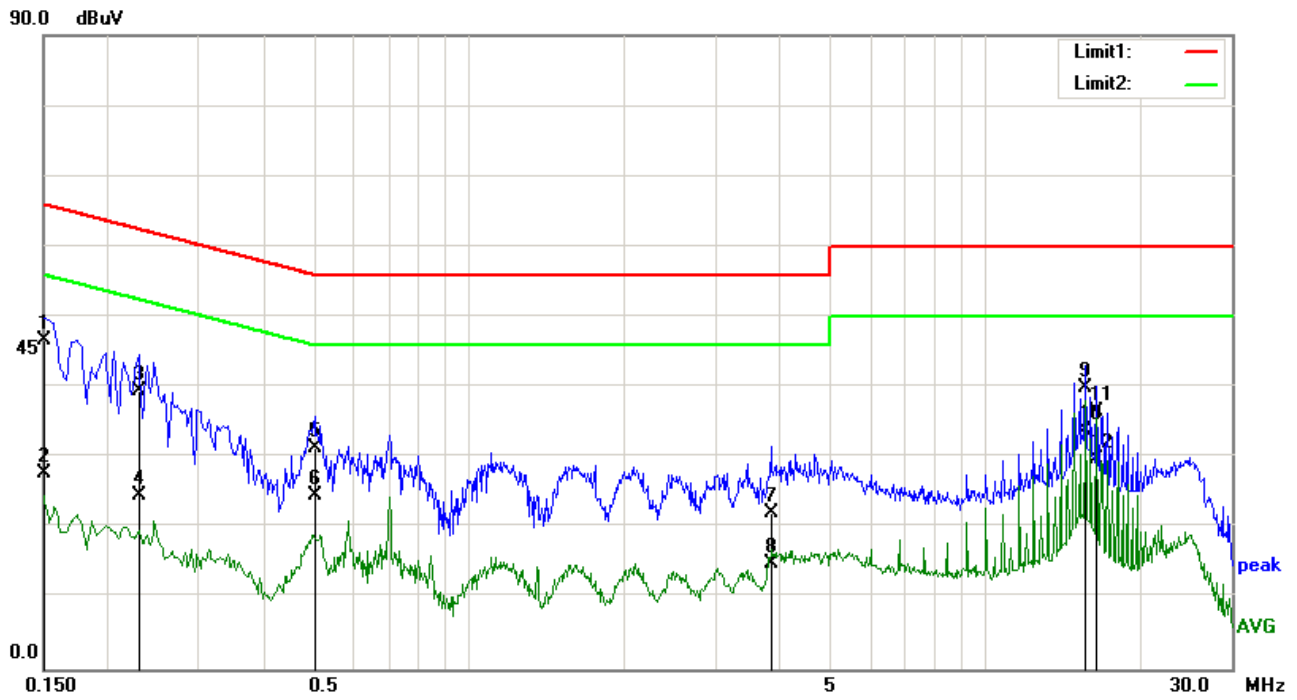


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1580	38.53	QP	0.11	-10.00	0.35	48.99	65.57	-16.58
2	0.1580	24.47	AVG	0.11	-10.00	0.35	34.93	55.57	-20.64
3	0.4980	24.72	QP	0.11	-10.00	0.21	35.04	56.03	-20.99
4	0.4980	18.85	AVG	0.11	-10.00	0.21	29.17	46.03	-16.86
5	14.8220	27.25	QP	0.94	-10.00	0.47	38.66	60.00	-21.34
6	14.8220	24.55	AVG	0.94	-10.00	0.47	35.96	50.00	-14.04
7	15.6180	30.68	QP	0.98	-10.00	0.47	42.13	60.00	-17.87
8	15.6180	27.50	AVG	0.98	-10.00	0.47	38.95	50.00	-11.05
9	16.4260	30.43	QP	1.02	-10.00	0.48	41.93	60.00	-18.07
10	16.4260	25.99	AVG	1.02	-10.00	0.48	37.49	50.00	-12.51
11	17.2260	27.47	QP	1.06	-10.00	0.49	39.02	60.00	-20.98
12	17.2260	23.77	AVG	1.06	-10.00	0.49	35.32	50.00	-14.68

Test Mode : Transmit Mode (Middle Channel)

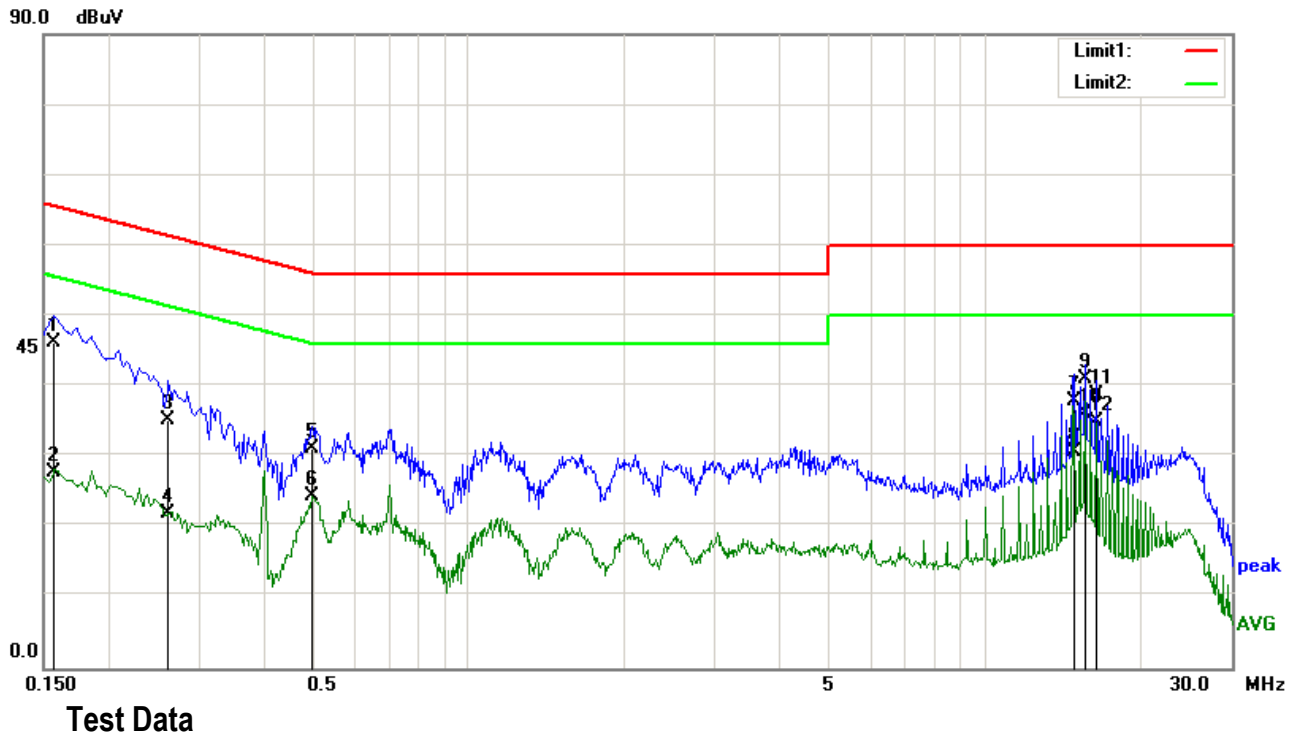


Test Data

Phase Line Plot at 230Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1500	36.27	QP	0.10	-10.00	0.36	46.73	66.00	-19.27
2	0.1500	17.43	AVG	0.10	-10.00	0.36	27.89	56.00	-28.11
3	0.2300	29.25	QP	0.10	-10.00	0.23	39.58	62.45	-22.87
4	0.2300	14.33	AVG	0.10	-10.00	0.23	24.66	52.45	-27.79
5	0.5020	20.96	QP	0.12	-10.00	0.21	31.29	56.00	-24.71
6	0.5020	14.20	AVG	0.12	-10.00	0.21	24.53	46.00	-21.47
7	3.8540	11.66	QP	0.23	-10.00	0.25	22.14	56.00	-33.86
8	3.8540	4.58	AVG	0.23	-10.00	0.25	15.06	46.00	-30.94
9	15.6420	28.50	QP	0.89	-10.00	0.47	39.86	60.00	-20.14
10	15.6420	22.61	AVG	0.89	-10.00	0.47	33.97	50.00	-16.03
11	16.4420	25.17	QP	0.92	-10.00	0.49	36.58	60.00	-23.42
12	16.4420	18.40	AVG	0.92	-10.00	0.49	29.81	50.00	-20.19

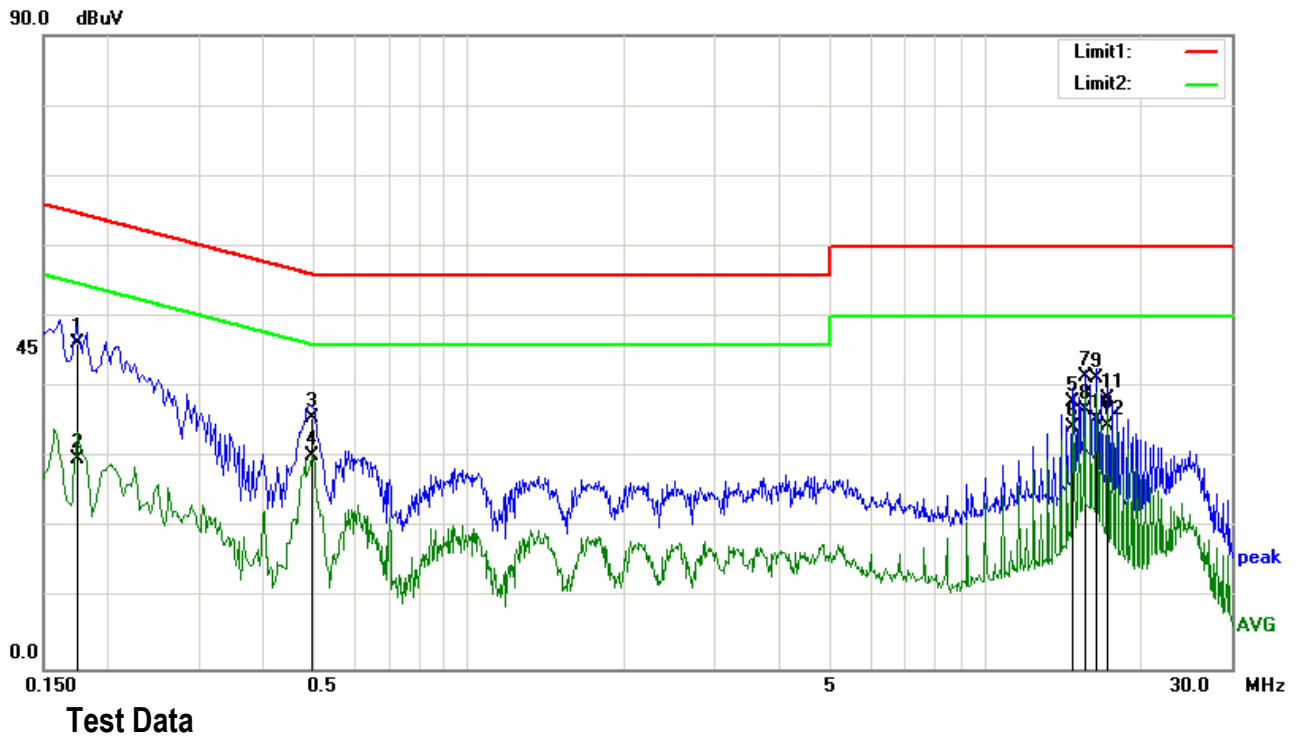
Test Mode :	Transmit Mode (Middle Channel)
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Phase Neutral Plot at 230Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1580	35.82	QP	0.11	-10.00	0.35	46.28	65.57	-19.29
2	0.1580	17.31	AVG	0.11	-10.00	0.35	27.77	55.57	-27.80
3	0.2620	24.83	QP	0.10	-10.00	0.20	35.13	61.37	-26.24
4	0.2620	11.70	AVG	0.10	-10.00	0.20	22.00	51.37	-29.37
5	0.4980	20.84	QP	0.11	-10.00	0.21	31.16	56.03	-24.87
6	0.4980	14.04	AVG	0.11	-10.00	0.21	24.36	46.03	-21.67
7	14.8300	26.52	QP	0.94	-10.00	0.47	37.93	60.00	-22.07
8	14.8300	19.34	AVG	0.94	-10.00	0.47	30.75	50.00	-19.25
9	15.6380	29.72	QP	0.98	-10.00	0.47	41.17	60.00	-18.83
10	15.6380	24.61	AVG	0.98	-10.00	0.47	36.06	50.00	-13.94
11	16.4380	27.28	QP	1.02	-10.00	0.49	38.79	60.00	-21.21
12	16.4380	23.41	AVG	1.02	-10.00	0.49	34.92	50.00	-15.08

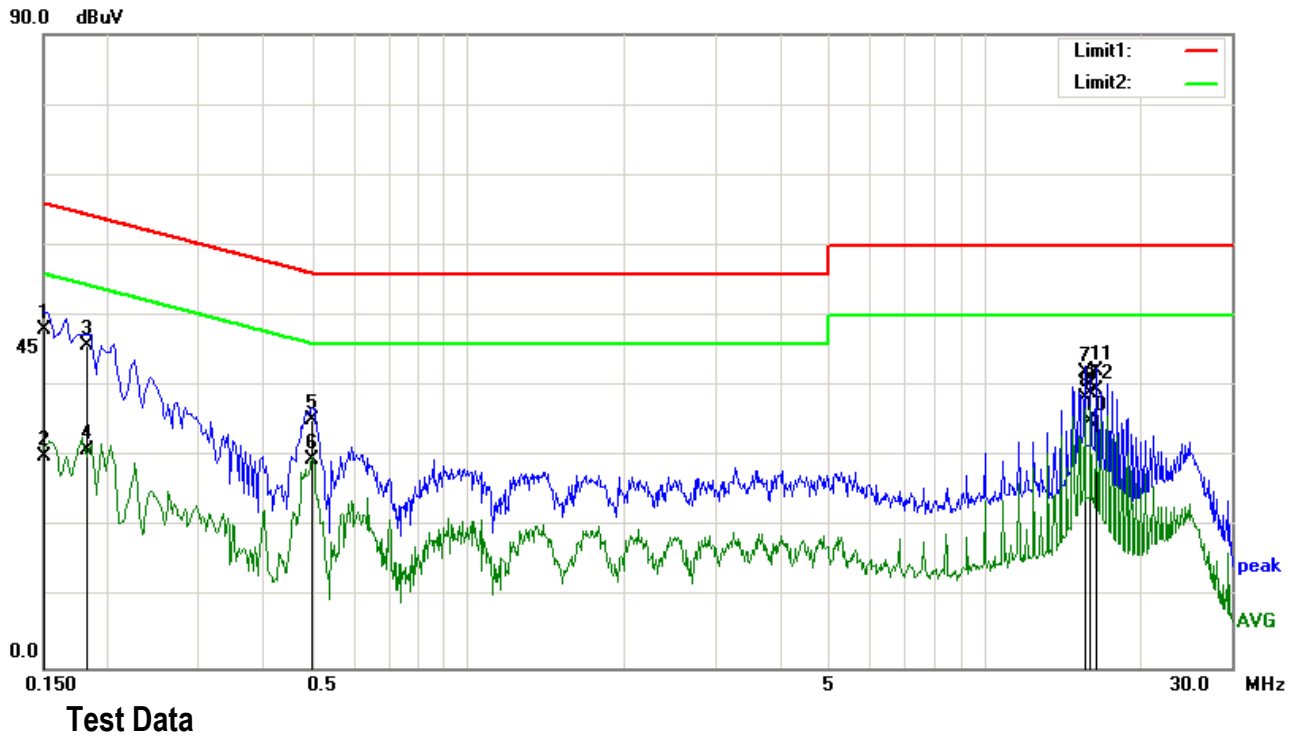
Test Mode :	Transmit Mode (High Channel)
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Phase Line Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1740	35.85	QP	0.10	-10.00	0.32	46.27	64.77	-18.50
2	0.1740	19.30	AVG	0.10	-10.00	0.32	29.72	54.77	-25.05
3	0.4980	25.30	QP	0.12	-10.00	0.21	35.63	56.03	-20.40
4	0.4980	19.89	AVG	0.12	-10.00	0.21	30.22	46.03	-15.81
5	14.8220	26.59	QP	0.85	-10.00	0.47	37.91	60.00	-22.09
6	14.8220	23.09	AVG	0.85	-10.00	0.47	34.41	50.00	-15.59
7	15.6220	30.08	QP	0.89	-10.00	0.47	41.44	60.00	-18.56
8	15.6220	25.45	AVG	0.89	-10.00	0.47	36.81	50.00	-13.19
9	16.4300	29.79	QP	0.92	-10.00	0.48	41.19	60.00	-18.81
10	16.4300	24.04	AVG	0.92	-10.00	0.48	35.44	50.00	-14.56
11	17.2340	26.92	QP	0.96	-10.00	0.49	38.37	60.00	-21.63
12	17.2340	23.01	AVG	0.96	-10.00	0.49	34.46	50.00	-15.54

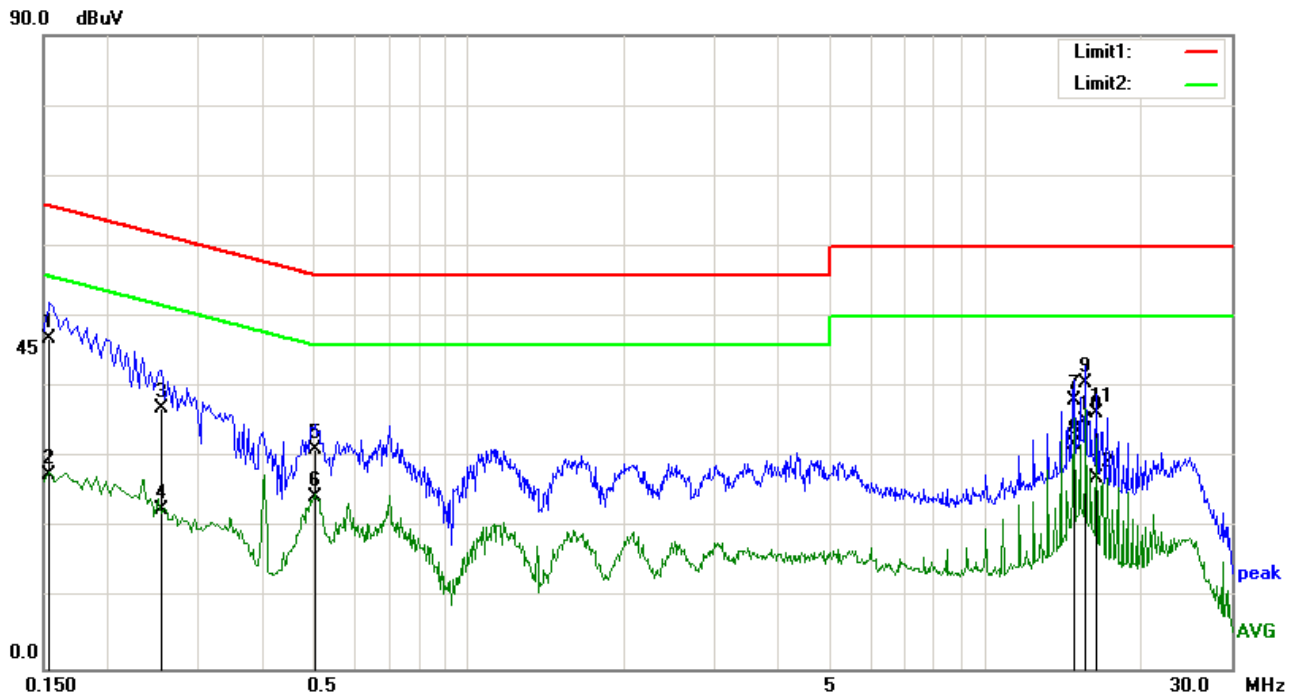
Test Mode : Transmit Mode(High Channel)



Phase Neutral Plot at 120Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1500	37.49	QP	0.11	-10.00	0.36	47.96	66.00	-18.04
2	0.1500	19.47	AVG	0.11	-10.00	0.36	29.94	56.00	-26.06
3	0.1820	35.27	QP	0.10	-10.00	0.31	45.68	64.39	-18.71
4	0.1820	20.53	AVG	0.10	-10.00	0.31	30.94	54.39	-23.45
5	0.4980	24.79	QP	0.11	-10.00	0.21	35.11	56.03	-20.92
6	0.4980	19.35	AVG	0.11	-10.00	0.21	29.67	46.03	-16.36
7	15.6220	30.52	QP	0.98	-10.00	0.47	41.97	60.00	-18.03
8	15.6220	26.93	AVG	0.98	-10.00	0.47	38.38	50.00	-11.62
9	16.0220	27.58	QP	1.00	-10.00	0.48	39.06	60.00	-20.94
10	16.0220	23.46	AVG	1.00	-10.00	0.48	34.94	50.00	-15.06
11	16.4220	30.76	QP	1.02	-10.00	0.48	42.26	60.00	-17.74
12	16.4220	27.90	AVG	1.02	-10.00	0.48	39.40	50.00	-10.60

Test Mode :	Transmit Mode (High Channel)
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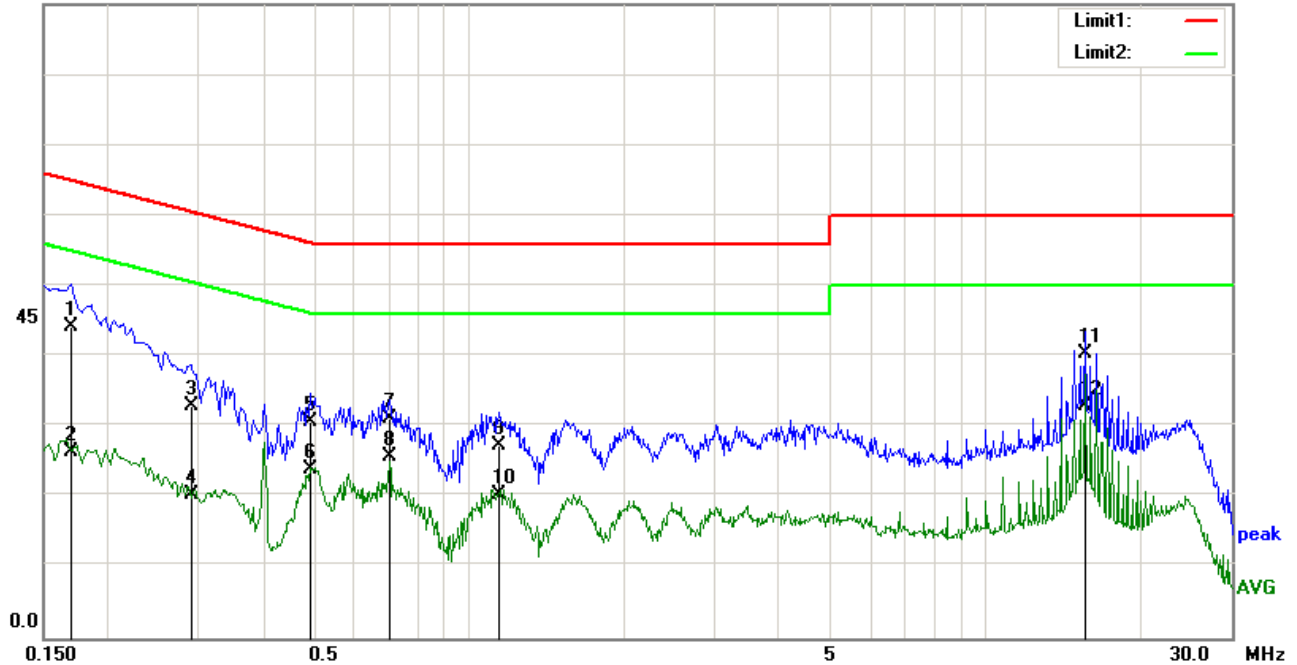
Test Data

Phase Line Plot at 230Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1540	36.43	QP	0.10	-10.00	0.35	46.88	65.78	-18.90
2	0.1540	17.17	AVG	0.10	-10.00	0.35	27.62	55.78	-28.16
3	0.2540	26.69	QP	0.10	-10.00	0.20	36.99	61.63	-24.64
4	0.2540	12.21	AVG	0.10	-10.00	0.20	22.51	51.63	-29.12
5	0.5060	20.90	QP	0.12	-10.00	0.21	31.23	56.00	-24.77
6	0.5060	14.17	AVG	0.12	-10.00	0.21	24.50	46.00	-21.50
7	14.8340	26.93	QP	0.85	-10.00	0.47	38.25	60.00	-21.75
8	14.8340	20.60	AVG	0.85	-10.00	0.47	31.92	50.00	-18.08
9	15.6420	29.17	QP	0.89	-10.00	0.47	40.53	60.00	-19.47
10	15.6420	23.85	AVG	0.89	-10.00	0.47	35.21	50.00	-14.79
11	16.4500	24.96	QP	0.92	-10.00	0.49	36.37	60.00	-23.63
12	16.4500	15.73	AVG	0.92	-10.00	0.49	27.14	50.00	-22.86

Test Mode : Transmit Mode(High Channel)

90.0 dBuV



Test Data


Phase Neutral Plot at 230Vac, 60Hz

No.	Frequency (MHz)	Reading (dBuV)	Detector	Lisn/Isn (dB)	Ps_Lmt (dB)	Cab_L (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.1700	33.79	QP	0.11	-10.00	0.33	44.23	64.96	-20.73
2	0.1700	15.92	AVG	0.11	-10.00	0.33	26.36	54.96	-28.60
3	0.2900	22.71	QP	0.10	-10.00	0.20	33.01	60.52	-27.51
4	0.2900	10.07	AVG	0.10	-10.00	0.20	20.37	50.52	-30.15
5	0.4940	20.35	QP	0.11	-10.00	0.21	30.67	56.10	-25.43
6	0.4940	13.68	AVG	0.11	-10.00	0.21	24.00	46.10	-22.10
7	0.7020	20.91	QP	0.12	-10.00	0.20	31.23	56.00	-24.77
8	0.7020	15.42	AVG	0.12	-10.00	0.20	25.74	46.00	-20.26
9	1.1420	17.00	QP	0.14	-10.00	0.20	27.34	56.00	-28.66
10	1.1420	10.07	AVG	0.14	-10.00	0.20	20.41	46.00	-25.59
11	15.6340	29.01	QP	0.98	-10.00	0.47	40.46	60.00	-19.54
12	15.6340	21.52	AVG	0.98	-10.00	0.47	32.97	50.00	-17.03

6.9 Radiated Spurious Emissions & Restricted Band

Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1022mbar
Test date :	June 22, 2017
Tested By :	Trety Lu

Requirement(s):

Spec	Item	Requirement	Applicable	
47CFR§15.205, §15.209, §15.247(d)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges		
		Frequency range (MHz)		Field Strength (µV/m)
		30 – 88		100
		88 – 216		150
		216 960		200
		Above 960		500

Test Setup	
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Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
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Remark	we test 3 modulations, only show GFSK test data in the report
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Test Report No.	17020664-FCC-R1
Page	54 of 84

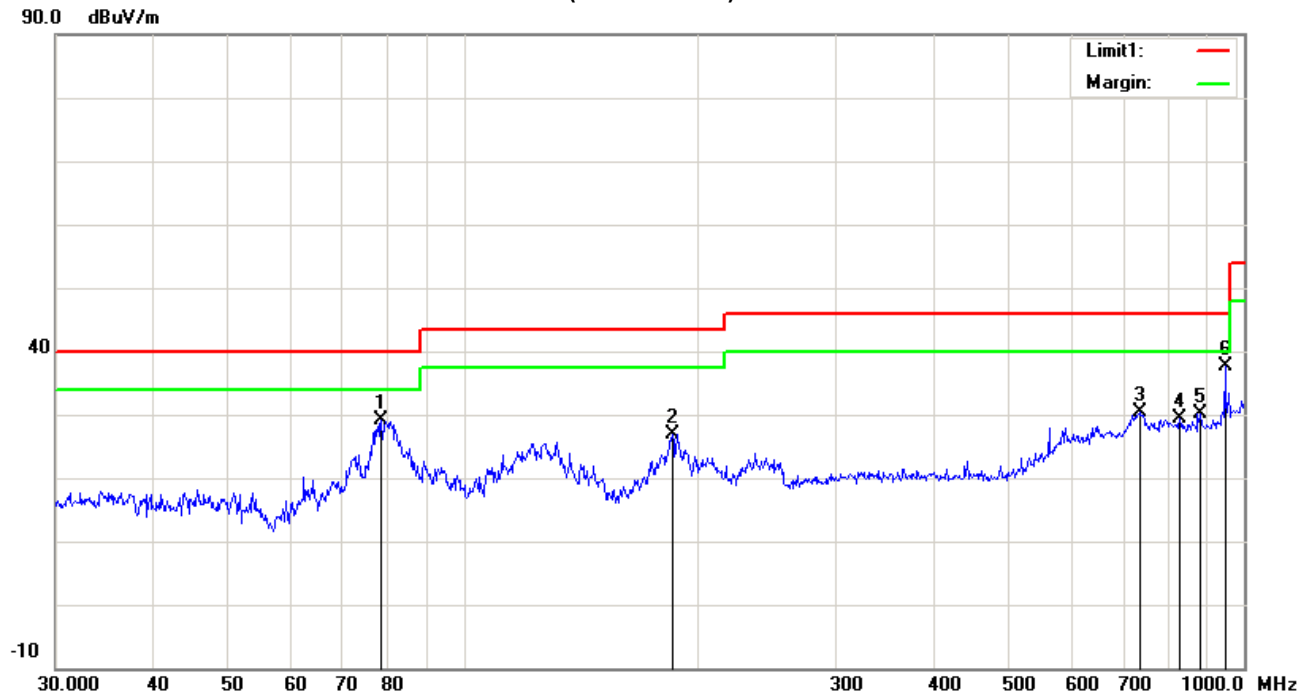
Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail
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Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode:	Transmitting Mode (Low channel)
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(Below 1GHz)



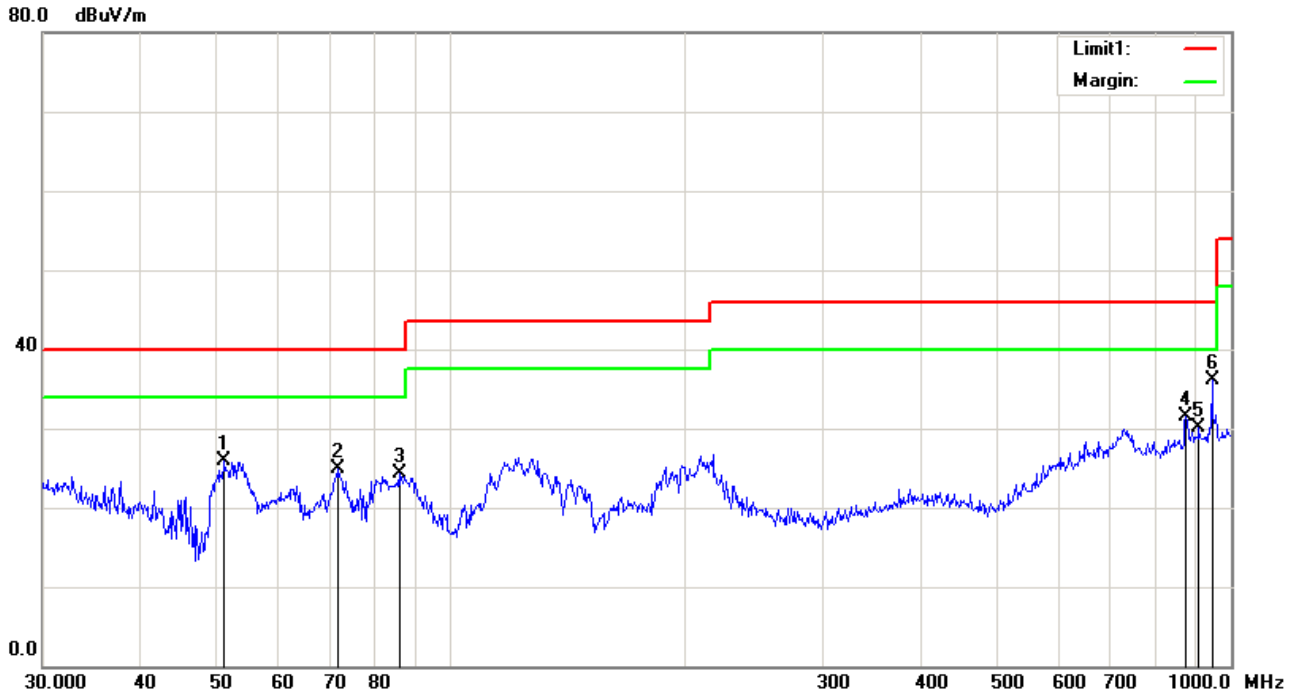
Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	78.4134	65.73	peak	9.72	47.83	1.44	29.06	40.00	-10.94	200	202
2	185.1379	58.68	peak	12.61	46.51	2.19	26.97	43.50	-16.53	200	111
3	737.0714	48.58	peak	22.62	45.21	4.36	30.35	46.00	-15.65	200	343
4	827.4934	47.62	peak	22.92	45.83	4.63	29.34	46.00	-16.66	300	298
5	878.3214	48.51	peak	22.77	45.93	4.79	30.14	46.00	-15.86	200	39
6	945.4399	54.75	peak	23.79	45.95	4.95	37.54	46.00	-8.46	200	29

Test Mode:	Transmitting Mode (Low channel)
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(Below 1GHz)



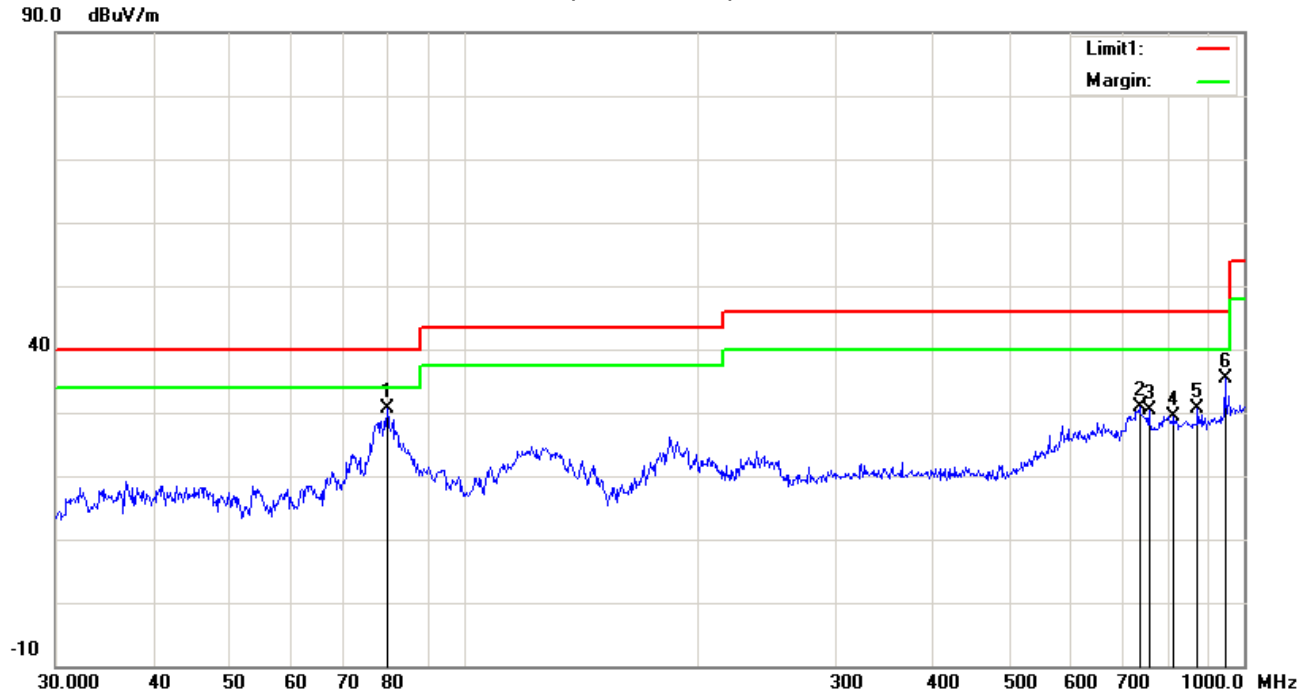
Test Data

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	51.3005	62.19	peak	8.89	46.52	1.26	25.82	40.00	-14.18	100	186
2	71.5806	61.44	peak	9.96	47.90	1.44	24.94	40.00	-15.06	200	331
3	85.8984	61.92	peak	8.32	47.43	1.48	24.29	40.00	-15.71	100	248
4	875.2470	49.63	peak	23.15	46.00	4.78	31.56	46.00	-14.44	200	114
5	909.6667	48.25	peak	23.67	46.63	4.88	30.17	46.00	-15.83	100	270
6	945.4399	53.36	peak	23.65	45.95	4.95	36.01	46.00	-9.99	100	45

Test Mode:	Transmitting Mode (Middle Channel)
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(Below 1GHz)



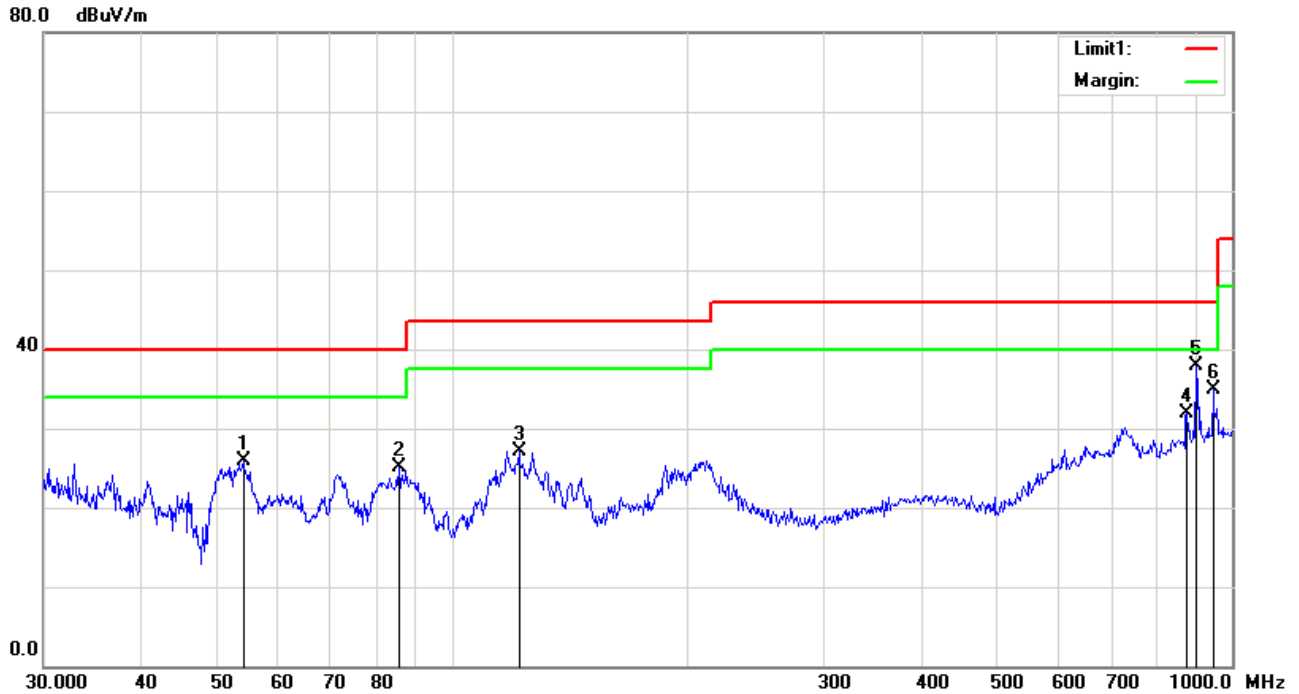
Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	79.8003	67.45	peak	9.55	47.78	1.44	30.66	40.00	-9.34	300	207
2	734.4913	49.27	peak	22.61	45.29	4.35	30.94	46.00	-15.06	200	305
3	755.3873	48.11	peak	22.73	44.98	4.41	30.27	46.00	-15.73	200	341
4	813.1116	47.83	peak	22.96	45.88	4.59	29.50	46.00	-16.50	200	349
5	872.1832	49.20	peak	22.78	46.06	4.77	30.69	46.00	-15.31	300	132
6	945.4399	52.47	peak	23.79	45.95	4.95	35.26	46.00	-10.74	200	251

Test Mode:	Transmitting Mode (Middle Channel)
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(Below 1GHz)



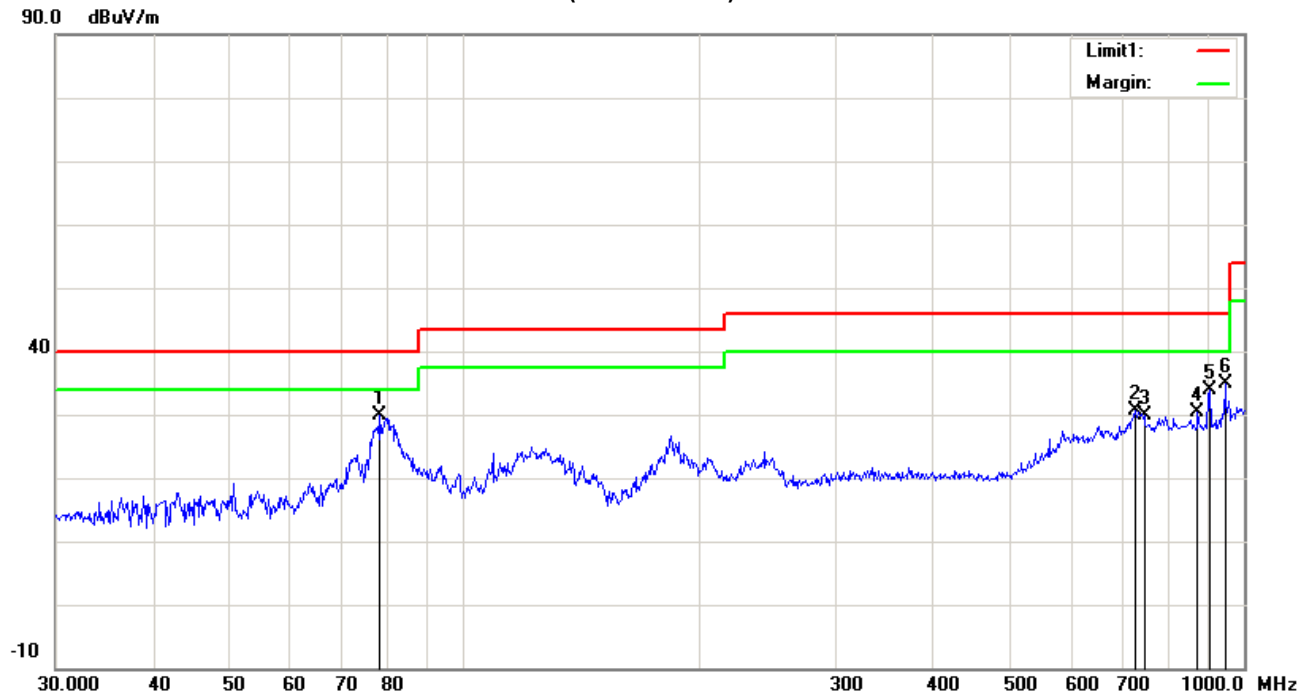
Test Data

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	54.0711	62.64	peak	8.56	46.65	1.27	25.82	40.00	-14.18	100	209
2	85.5977	62.89	peak	8.27	47.46	1.47	25.17	40.00	-14.83	100	260
3	121.9755	56.02	peak	15.94	46.71	1.80	27.05	43.50	-16.45	100	115
4	875.2470	50.02	peak	23.15	46.00	4.78	31.95	46.00	-14.05	100	234
5	900.1474	56.06	peak	23.67	46.64	4.86	37.95	46.00	-8.05	200	359
6	945.4399	52.26	peak	23.65	45.95	4.95	34.91	46.00	-11.09	200	355

Test Mode:	Transmitting Mode (High Channel)
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(Below 1GHz)



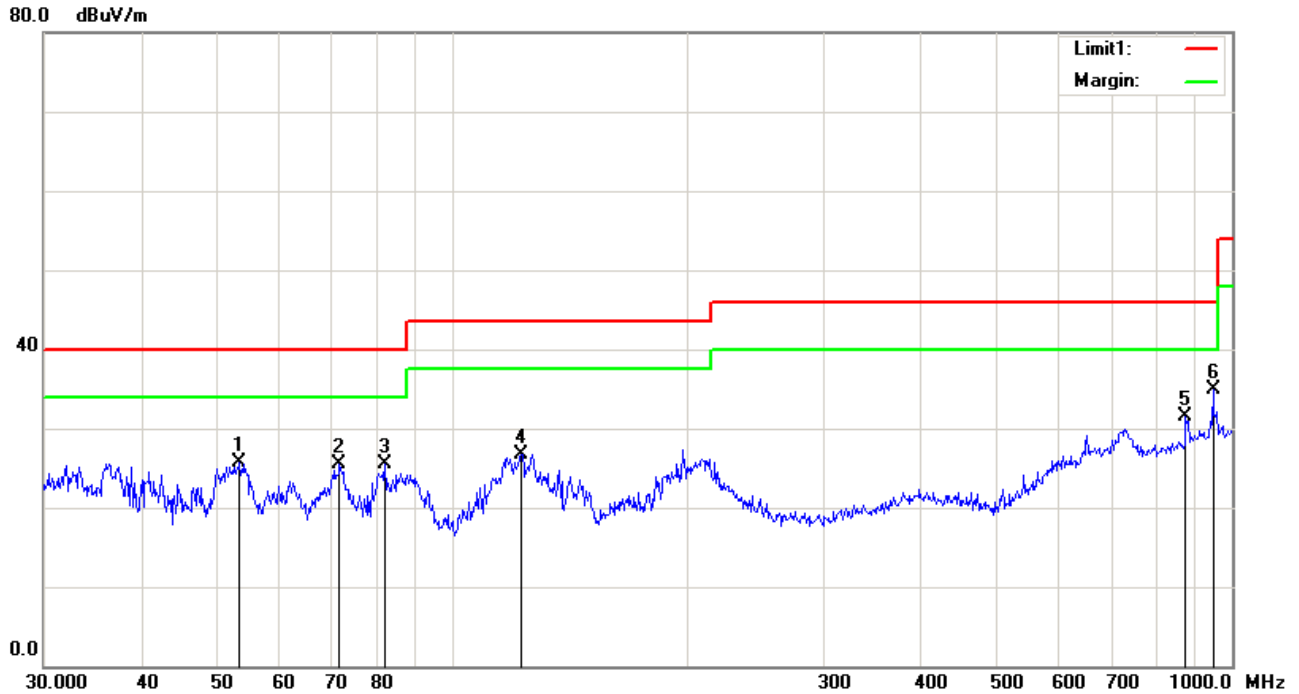
Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	78.1389	66.46	peak	9.75	47.84	1.44	29.81	40.00	-10.19	200	184
2	724.2611	49.27	peak	22.55	45.63	4.32	30.51	46.00	-15.49	232	360
3	744.8661	47.81	peak	22.67	45.07	4.38	29.79	46.00	-16.21	200	124
4	872.1832	48.80	peak	22.78	46.06	4.77	30.29	46.00	-15.71	200	286
5	903.3094	52.75	peak	22.78	46.64	4.87	33.76	46.00	-12.24	200	354
6	945.4399	52.19	peak	23.79	45.95	4.95	34.98	46.00	-11.02	300	266

Test Mode: Transmitting Mode (High Channel)

(Below 1GHz)



Test Data

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	53.5052	62.35	peak	8.63	46.63	1.26	25.61	40.00	-14.39	100	125
2	71.8320	62.12	peak	9.88	47.91	1.44	25.53	40.00	-14.47	200	0
3	82.0706	64.03	peak	7.69	47.67	1.45	25.50	40.00	-14.50	200	278
4	122.8340	55.66	peak	15.99	46.77	1.80	26.68	43.50	-16.82	100	260
5	872.1832	49.69	peak	23.08	46.06	4.77	31.48	46.00	-14.52	200	7
6	945.4399	52.25	peak	23.65	45.95	4.95	34.90	46.00	-11.10	200	43

Test Mode:	Transmitting Mode (Low channel)
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(Above 1GHz)

Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA G (dB)	Cab L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	4910.000	69.32	peak	33.40	53.81	5.96	54.87	74.00	-19.13	100	338
2	7392.000	57.29	peak	34.93	54.94	7.25	44.53	74.00	-29.47	100	344
3	10520.000	53.12	peak	38.59	53.04	9.36	48.03	74.00	-25.97	100	353
4	12951.000	52.27	peak	40.43	51.91	9.64	50.43	74.00	-23.57	100	114
5	13937.000	53.74	peak	42.04	52.12	9.09	52.75	74.00	-21.25	100	156
6	15518.000	53.51	peak	39.46	50.08	10.18	53.07	74.00	-20.93	100	181

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA G (dB)	Cab L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	4825.000	57.05	peak	33.22	53.43	6.08	42.92	74.00	-31.08	100	0
2	6355.000	56.42	peak	33.97	52.38	5.84	43.85	74.00	-30.15	100	65
3	8633.000	55.85	peak	34.55	54.02	8.29	44.67	74.00	-29.33	100	126
4	11047.000	55.17	peak	38.42	53.22	9.56	49.93	74.00	-24.07	100	0
5	13903.000	54.59	peak	42.00	52.11	9.11	53.59	74.00	-20.41	100	144
6	15569.000	54.16	peak	39.33	50.28	10.21	53.42	74.00	-20.58	100	256

Test Mode:	Transmitting Mode (Middle channel)
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(Above 1GHz)

Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA G (dB)	Cab L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	4876.000	56.37	peak	33.33	53.66	6.00	42.04	74.00	-31.96	100	318
2	7477.000	54.64	peak	35.06	54.82	7.38	42.26	74.00	-31.74	100	345
3	10690.000	53.23	peak	38.52	53.11	9.41	48.05	74.00	-25.95	100	321
4	13104.000	53.64	peak	40.73	51.84	9.60	52.13	74.00	-21.87	100	360
5	15705.000	53.69	peak	39.01	50.82	10.28	52.16	74.00	-21.84	100	333
6	17031.000	53.91	peak	40.19	57.17	11.21	48.14	74.00	-25.86	100	336

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA G (dB)	Cab L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	4842.000	56.72	peak	33.25	53.51	6.05	42.51	74.00	-31.49	100	30
2	7970.000	55.91	peak	36.51	54.74	7.82	45.50	74.00	-28.50	100	157
3	10333.000	54.96	peak	38.63	53.39	9.31	49.51	74.00	-24.49	100	142
4	13104.000	53.77	peak	40.73	51.84	9.60	52.26	74.00	-21.74	100	151
5	14328.000	53.87	peak	41.58	52.44	9.27	52.28	74.00	-21.72	100	308
6	15535.000	53.67	peak	39.42	50.15	10.19	53.13	74.00	-20.87	100	63

Test Mode:	Transmitting Mode (High Channel)
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(Above 1GHz)

Test Data

Horizontal Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA G (dB)	Cab L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	3006.000	59.40	peak	31.55	52.81	4.45	42.59	74.00	-31.41	100	115
2	4706.000	57.58	peak	32.95	52.90	6.13	43.76	74.00	-30.24	200	12
3	5947.000	55.85	peak	33.41	51.52	5.91	43.65	74.00	-30.35	200	11
4	7987.000	55.82	peak	36.56	54.74	7.84	45.48	74.00	-28.52	100	318
5	11030.000	55.91	peak	38.41	53.22	9.54	50.64	74.00	-23.36	200	24
6	13886.000	55.06	peak	41.99	52.11	9.12	54.06	74.00	-19.94	100	291

Vertical Polarity Plot @3m

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Ant F (dB/m)	PA G (dB)	Cab L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	5998.000	55.07	peak	33.40	51.29	5.85	43.03	74.00	-30.97	100	359
2	8089.000	55.23	peak	36.16	54.56	7.95	44.78	74.00	-29.22	200	63
3	10146.000	55.77	peak	38.67	53.79	9.27	49.92	74.00	-24.08	100	269
4	11557.000	55.56	peak	38.59	53.24	10.08	50.99	74.00	-23.01	100	157
5	13784.000	54.28	peak	41.88	52.08	9.20	53.28	74.00	-20.72	200	93
6	15637.000	53.51	peak	39.17	50.55	10.25	52.38	74.00	-21.62	100	257

Note:

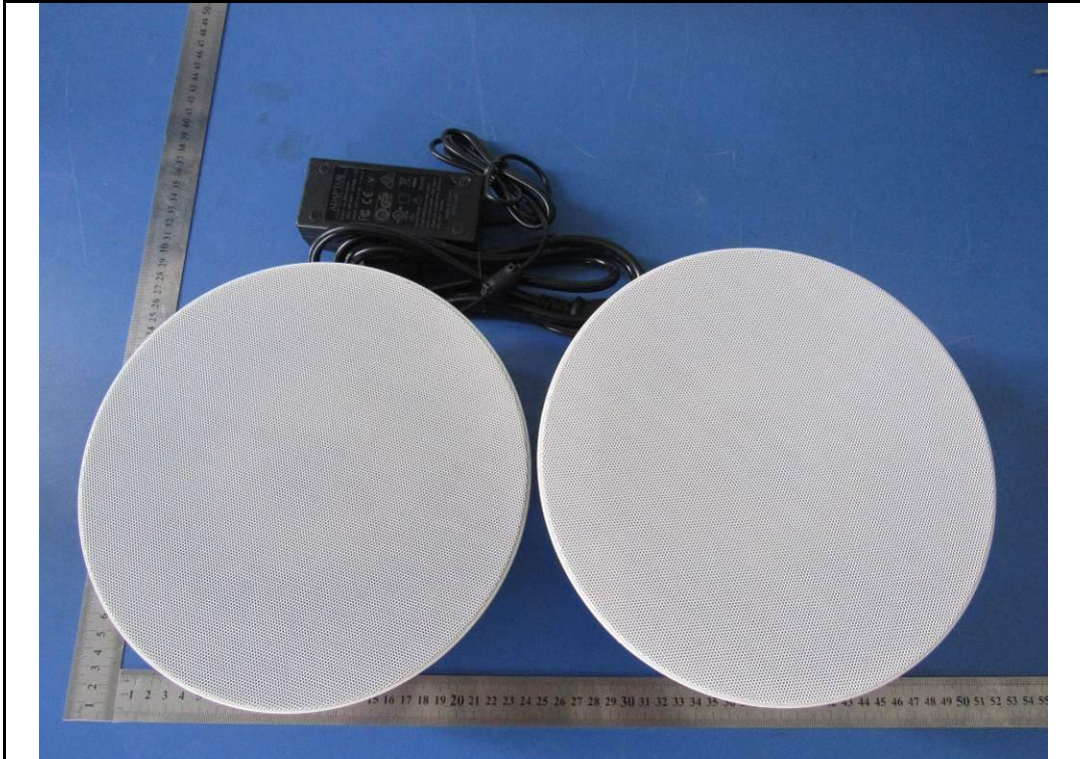
- 1, The testing has been conformed to 10*2480MHz=24,800MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted Emissions					
R&S EMI Test Receiver	ESPI3	101216	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
V-LISN	ESH3-Z5	838979/005	05/15/2017	05/14/2018	<input checked="" type="checkbox"/>
SIEMIC EZ_EMC Conducted Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	<input checked="" type="checkbox"/>
RF conducted test					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
Radiated Emissions					
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
R&S EMI Receiver	ESPI3	101216	05/03/2017	05/02/2018	<input checked="" type="checkbox"/>
Antenna (30MHz~6GHz)	JB6	A121411	10/20/2016	10/20/2017	<input checked="" type="checkbox"/>
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2016	10/08/2017	<input checked="" type="checkbox"/>
Agilent Pre-Amplifier	8449B	N/A	10/20/2016	10/20/2017	<input checked="" type="checkbox"/>
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/20/2016	10/20/2017	<input checked="" type="checkbox"/>
SIEMIC EZ_EMC Radiated Emissions software	Ver.ICP-03A1	N/A	N/A	N/A	<input checked="" type="checkbox"/>

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



The Whole of EUT - Front View



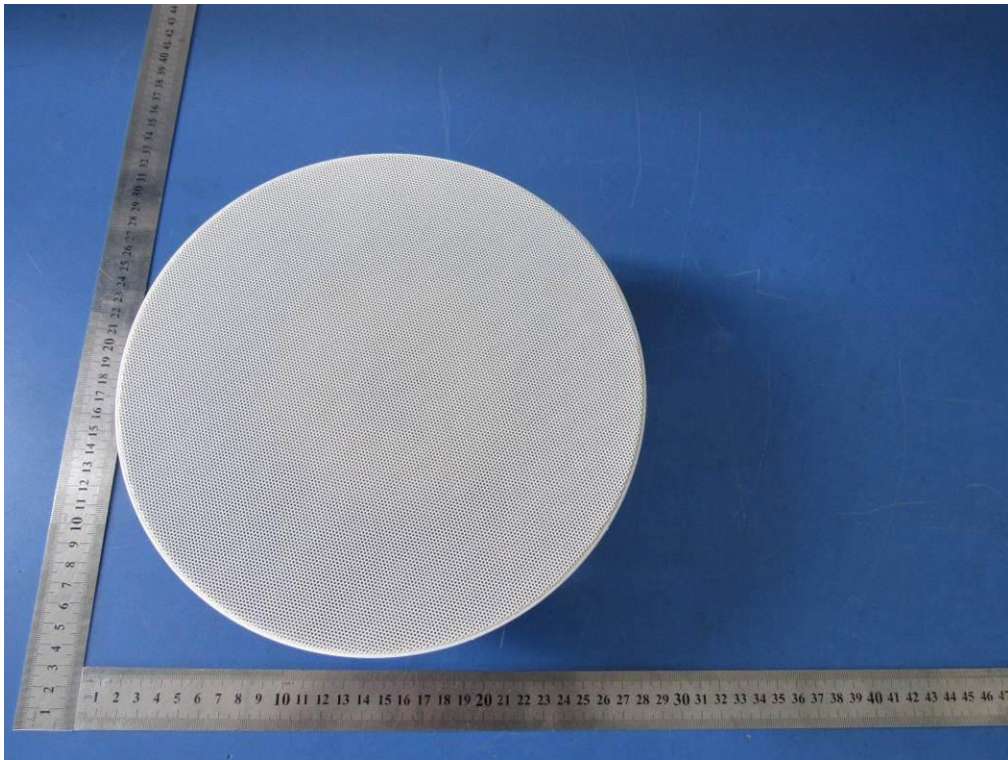
The Whole of EUT – Bottom View



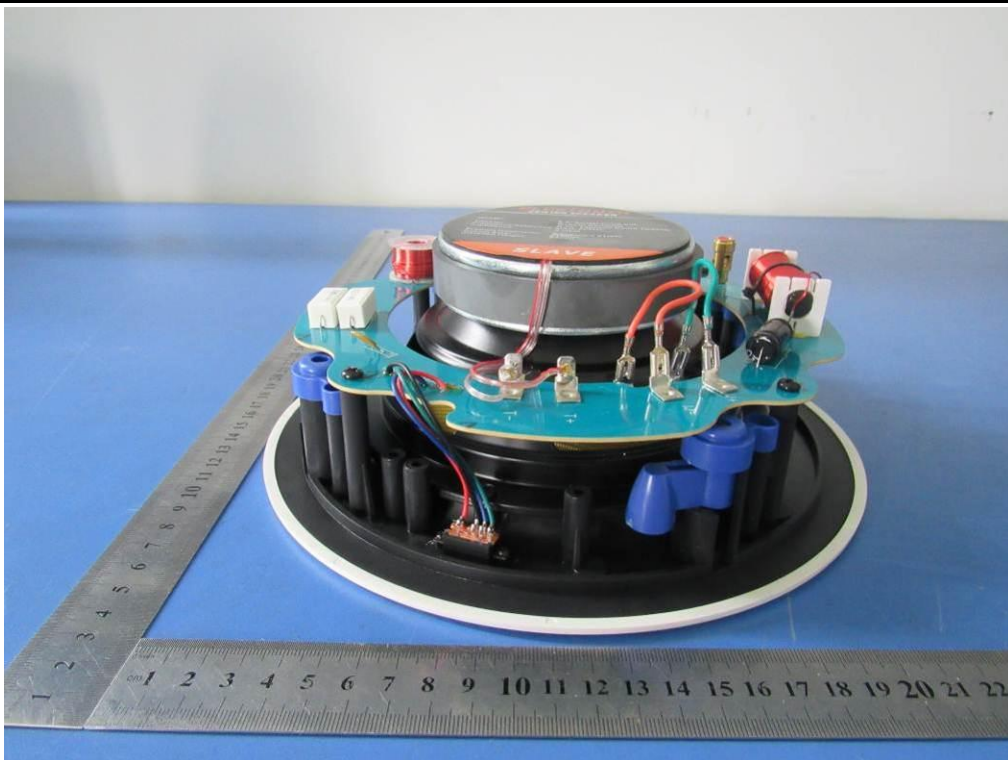
EUT Adapter - Front View



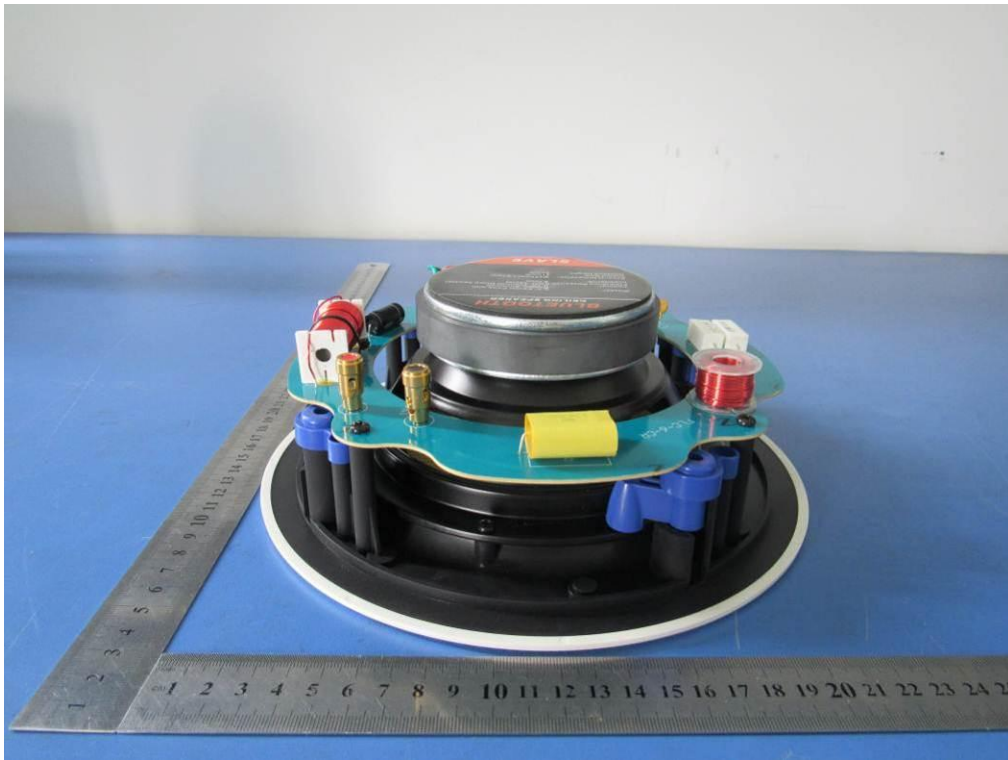
Slave Part - Top View



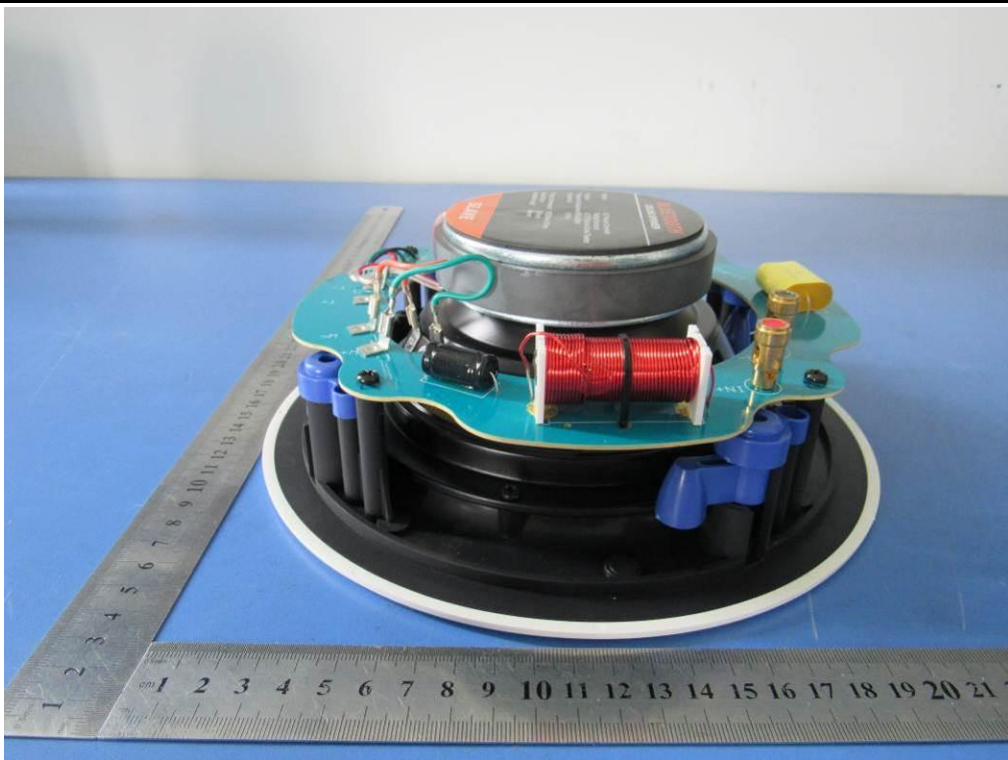
Slave Part - Bottom View



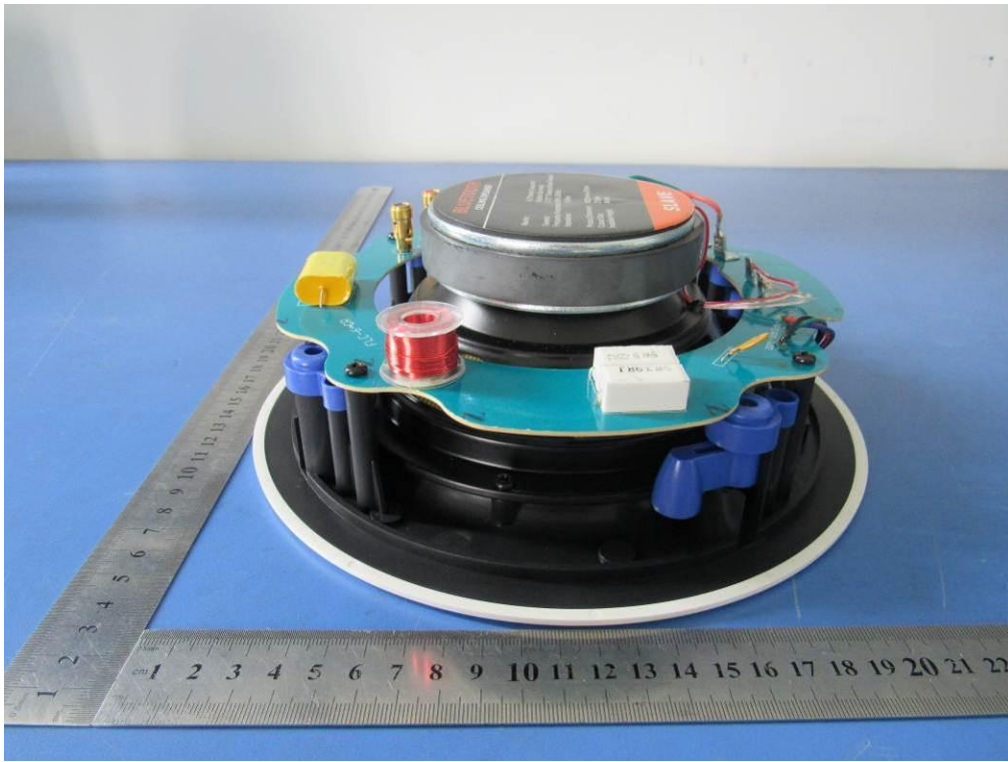
Slave Part - Front View



Slave Part - Rear View



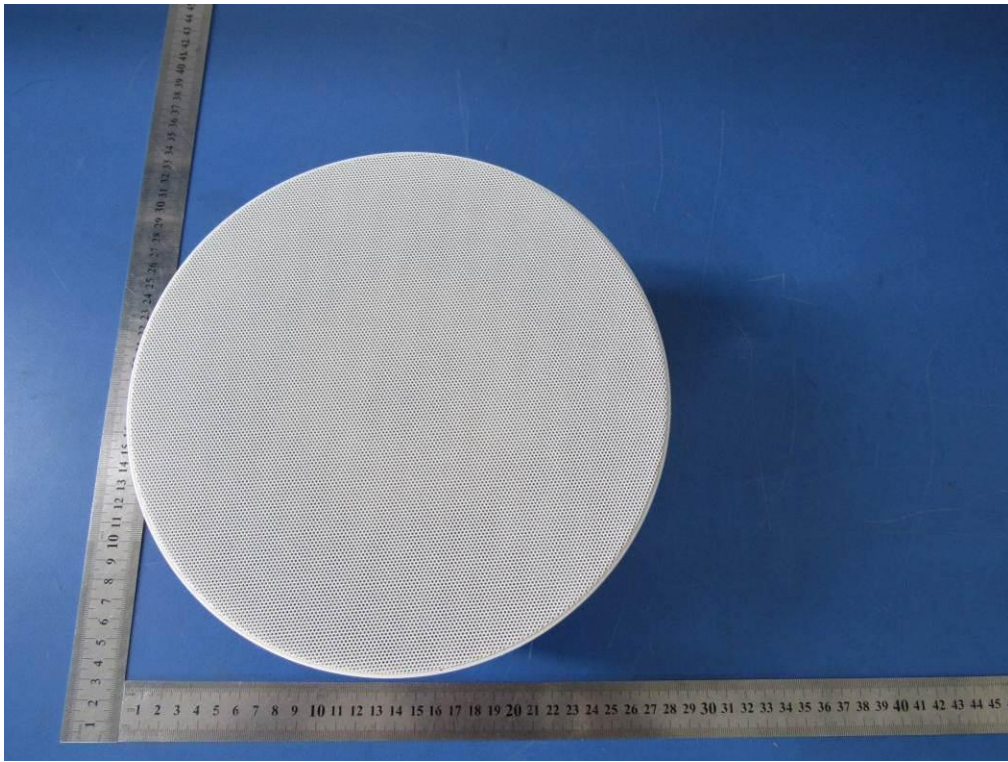
Slave Part - Right View



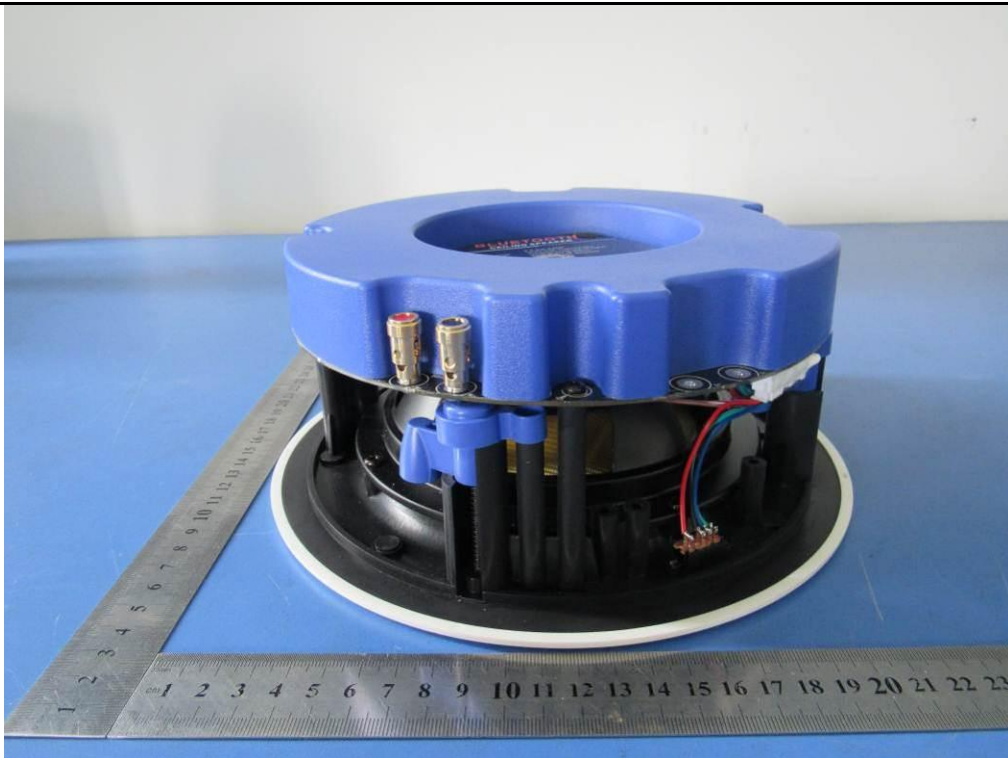
Slave Part - Left View



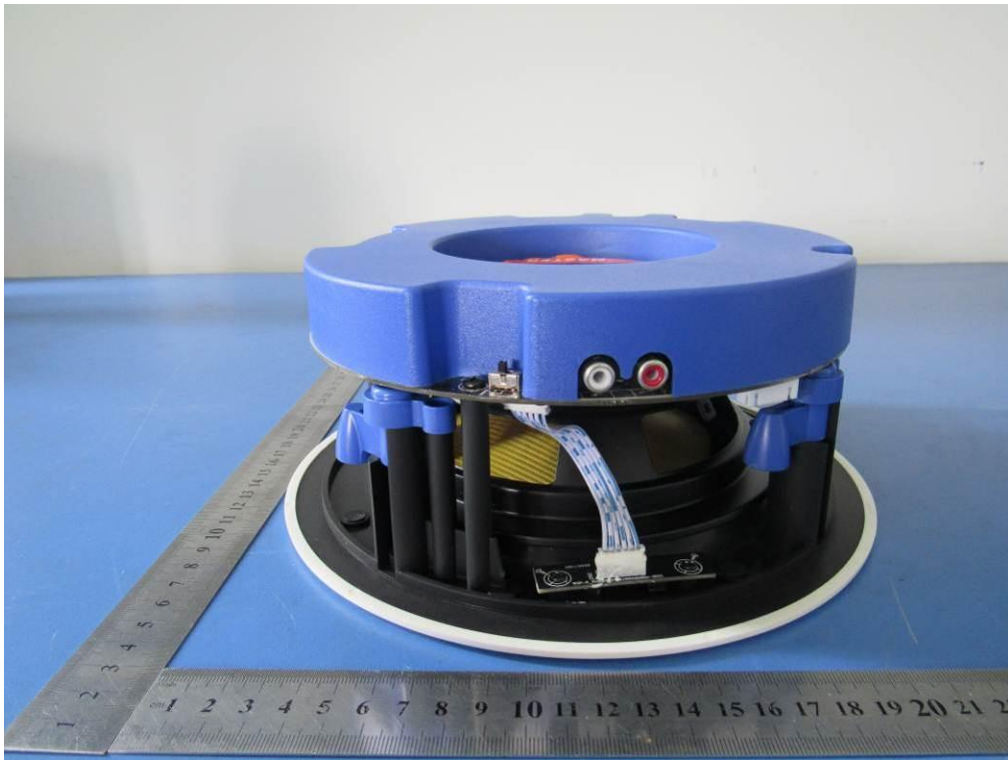
Master Part - Top View



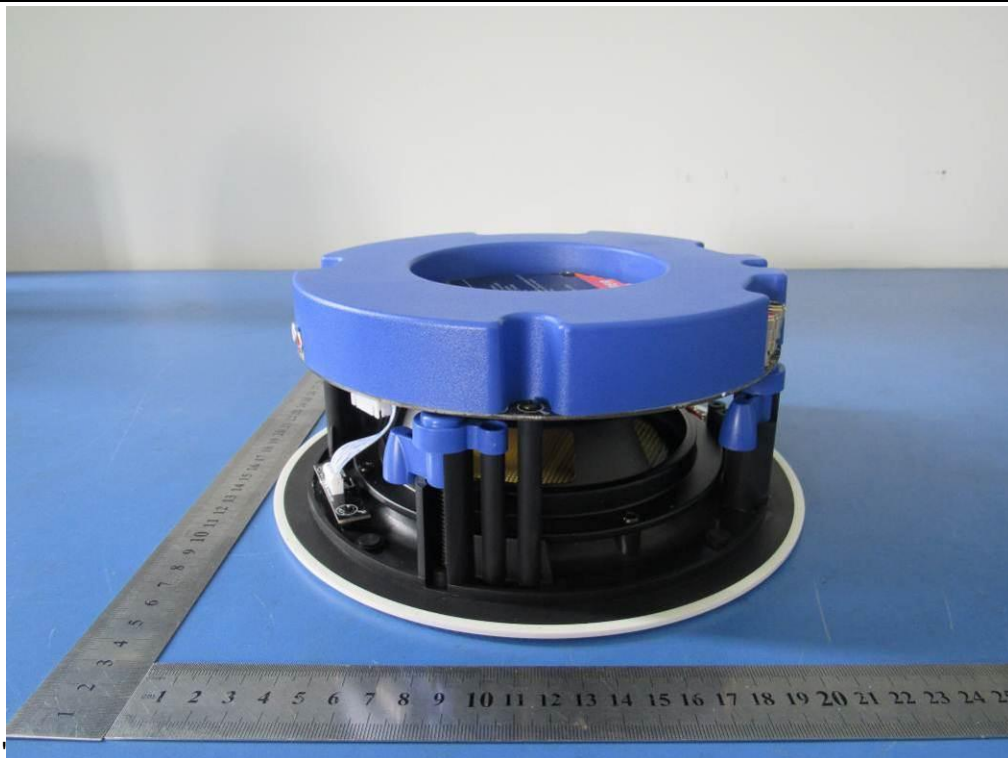
Master Part - Bottom View



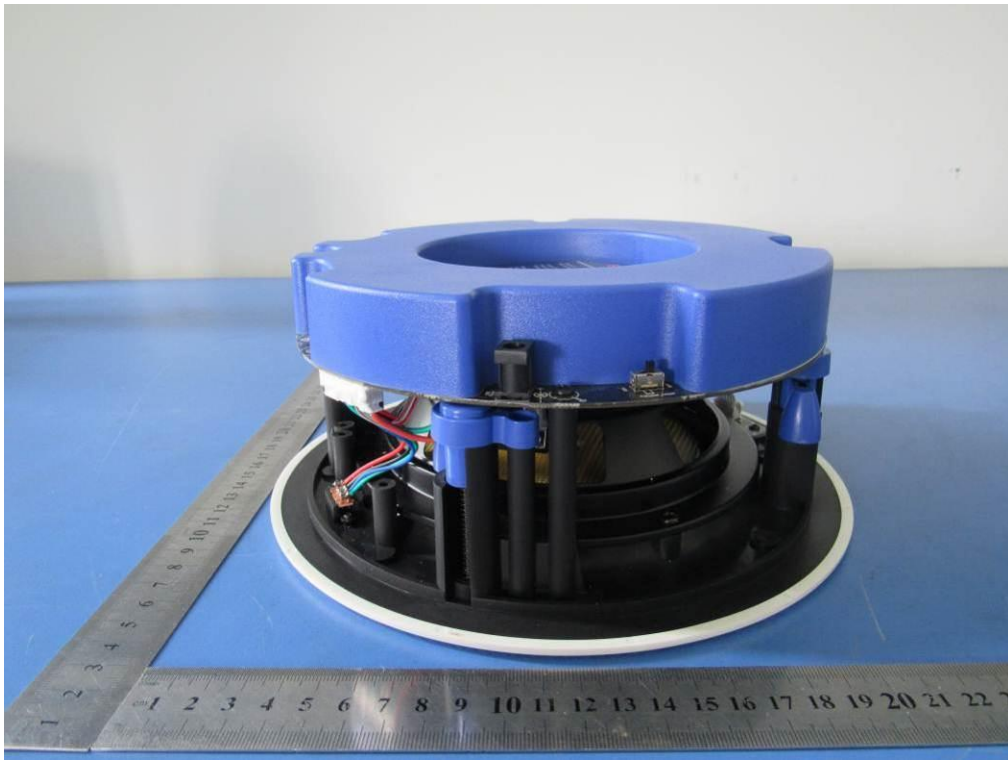
Master Part – Front View



Master Part – Rear View



Master Part – Left View

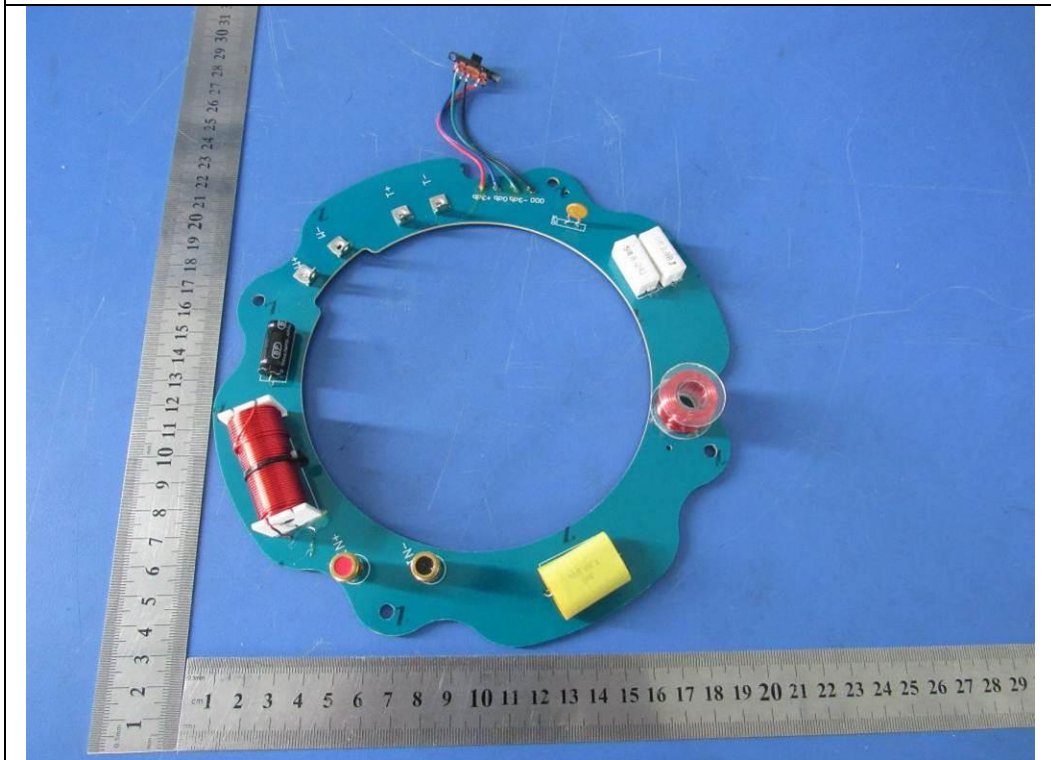


Master Part – Right View

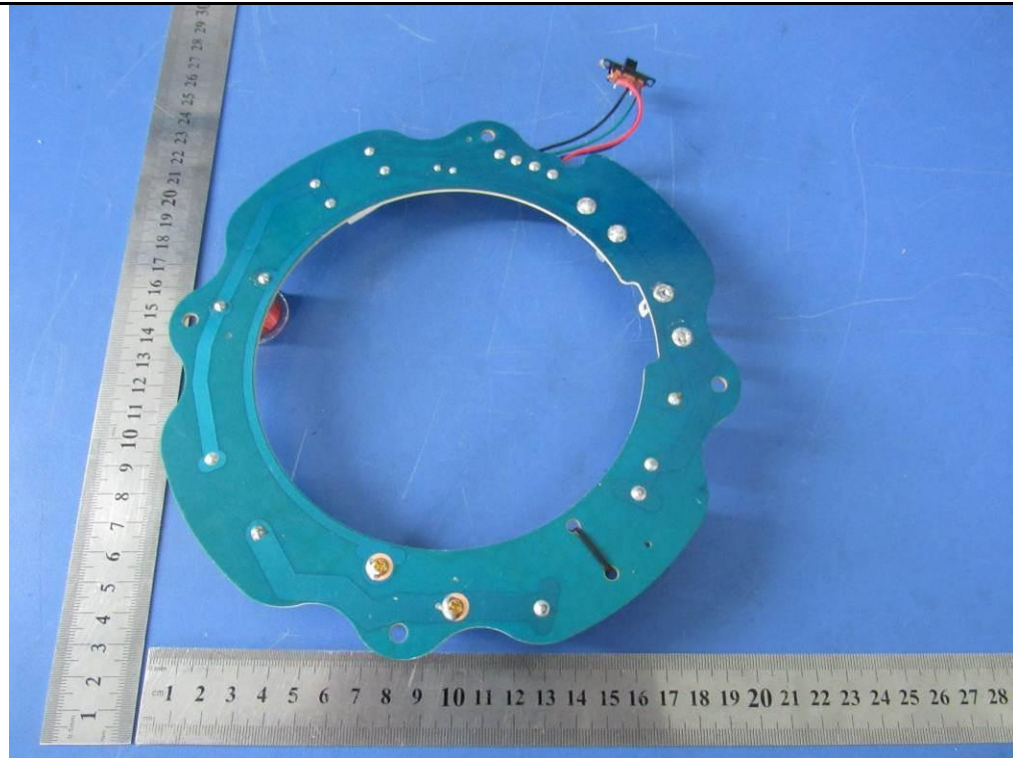
Annex B.ii. Photograph: EUT Internal Photo



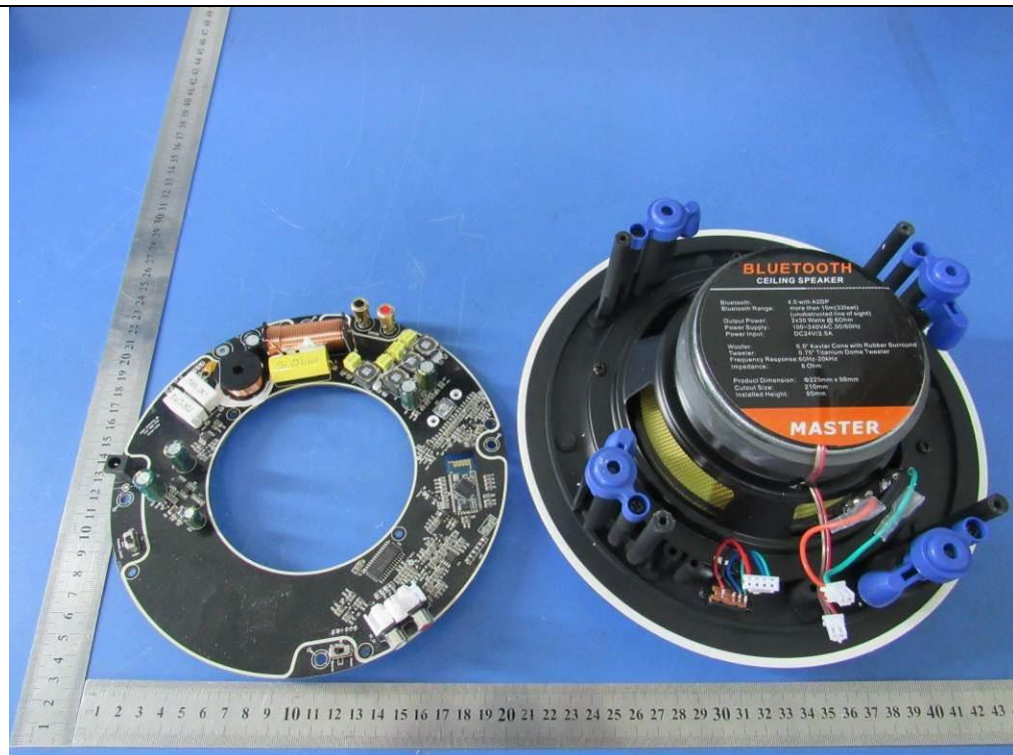
Slave Part – Uncover Front View



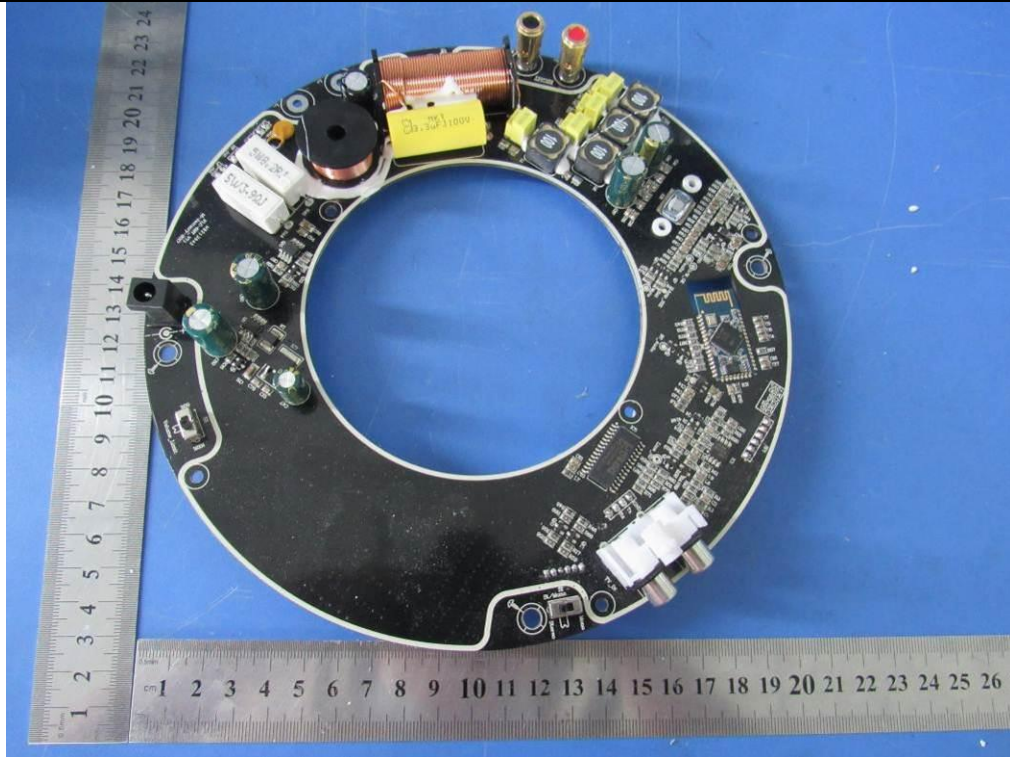
Slave Part - PCB Front View



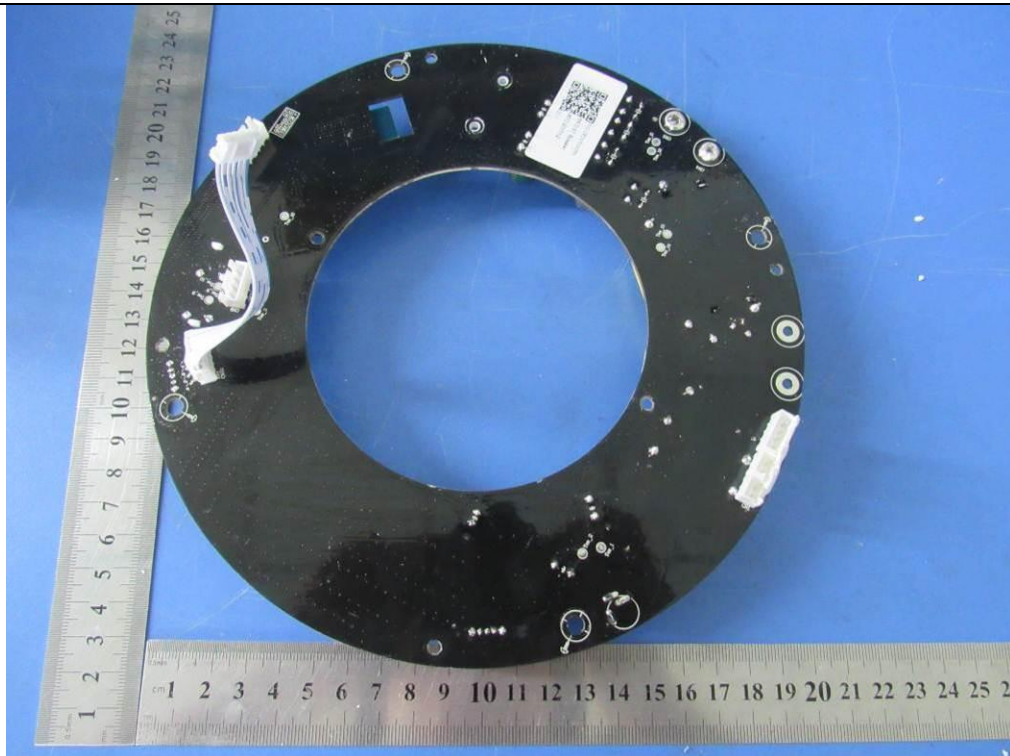
Slave Part - PCB Rear View



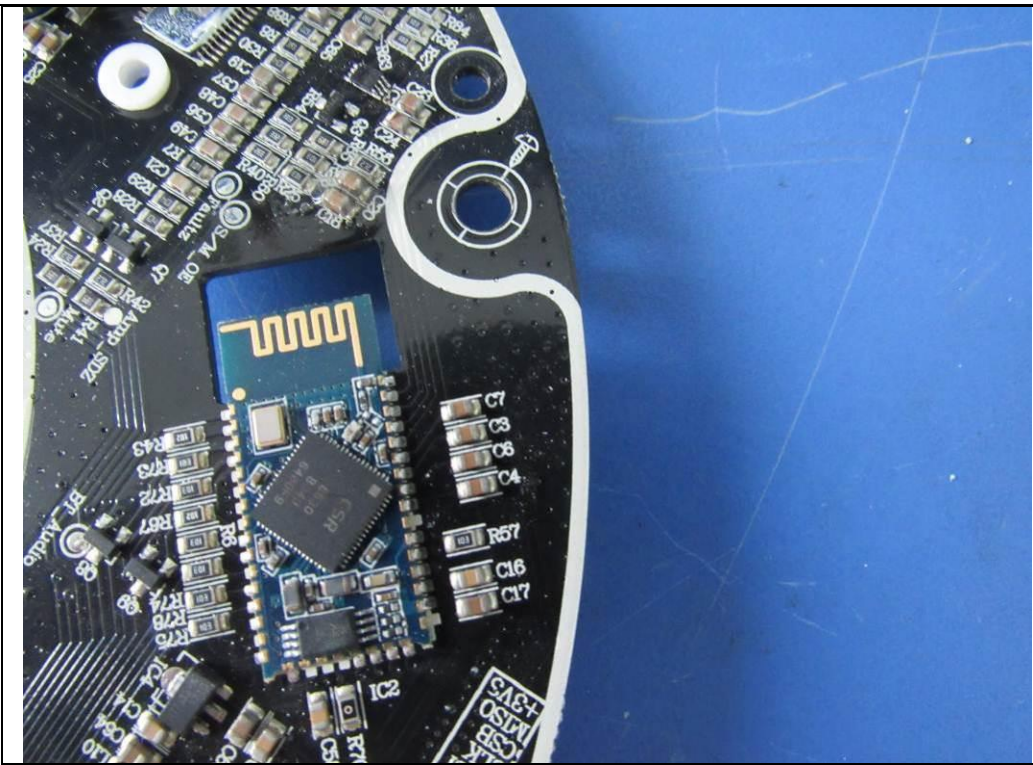
Master Part – Uncover Front View



Master Part - PCB Front View



Master Part - PCB Rear View

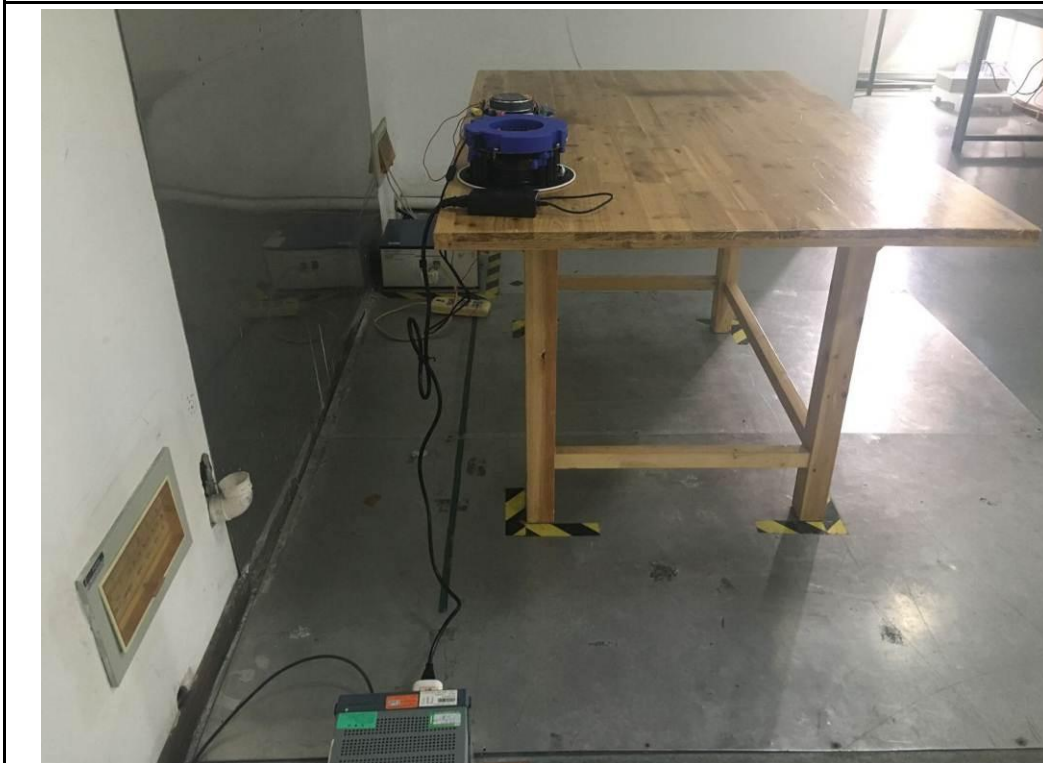


Master Part - Module Front View

Annex B.iii. Photograph: Test Setup Photo



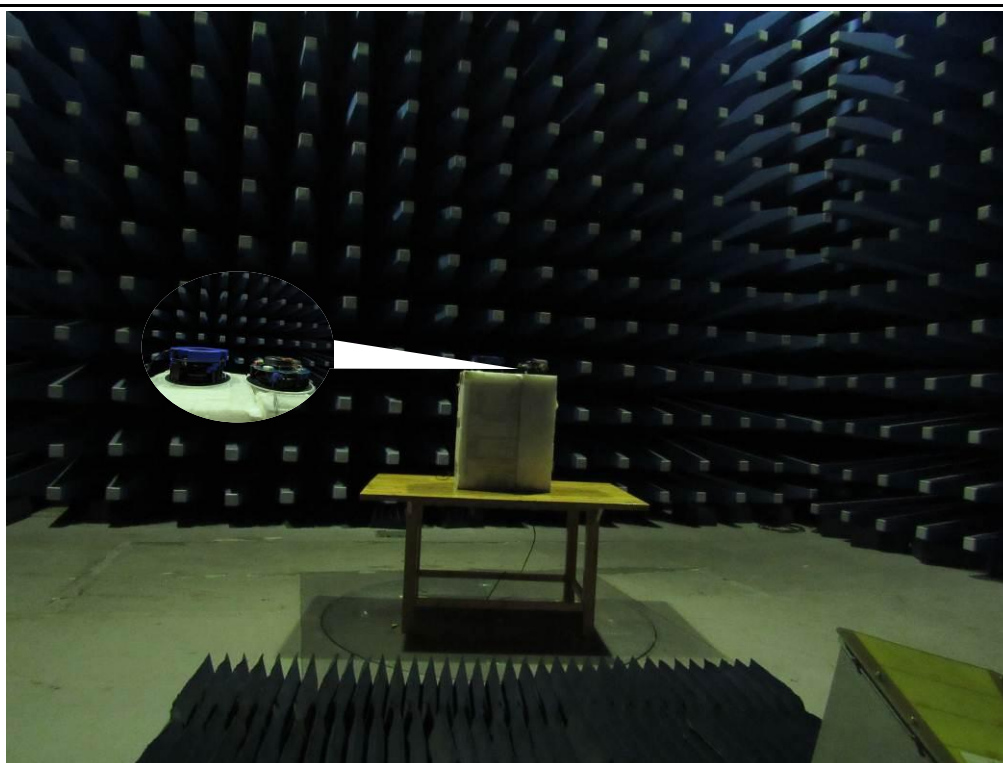
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

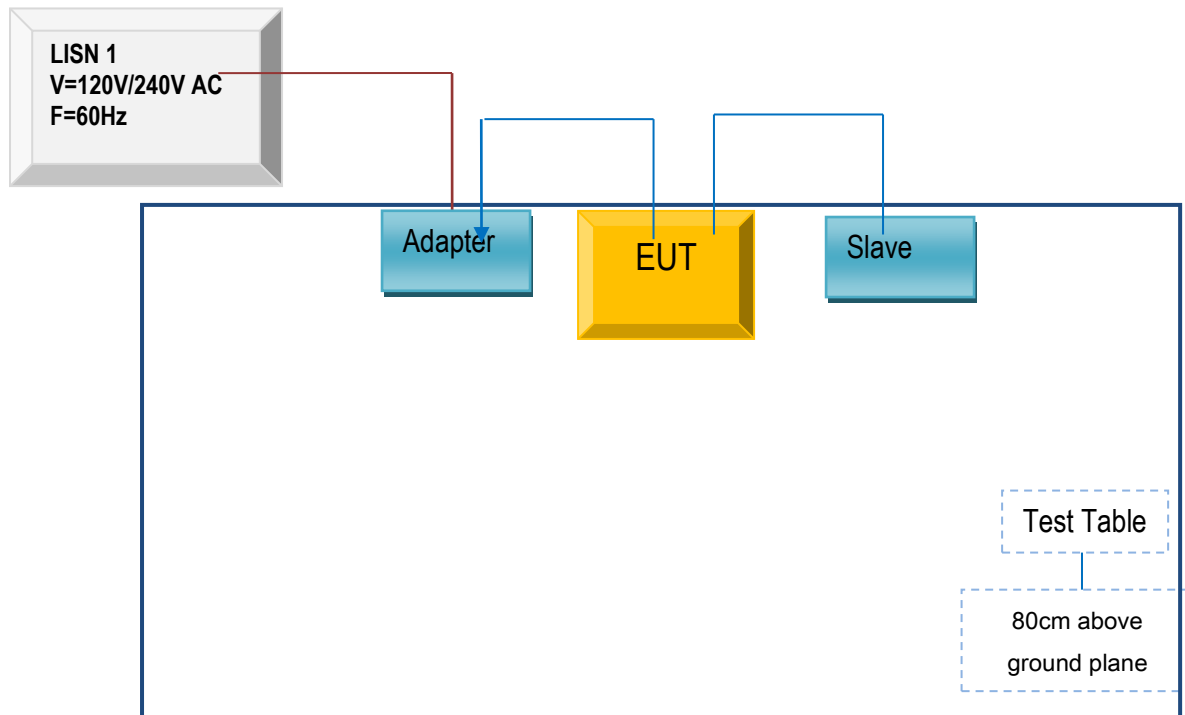


Radiated Spurious Emissions Test Setup Above 1GHz

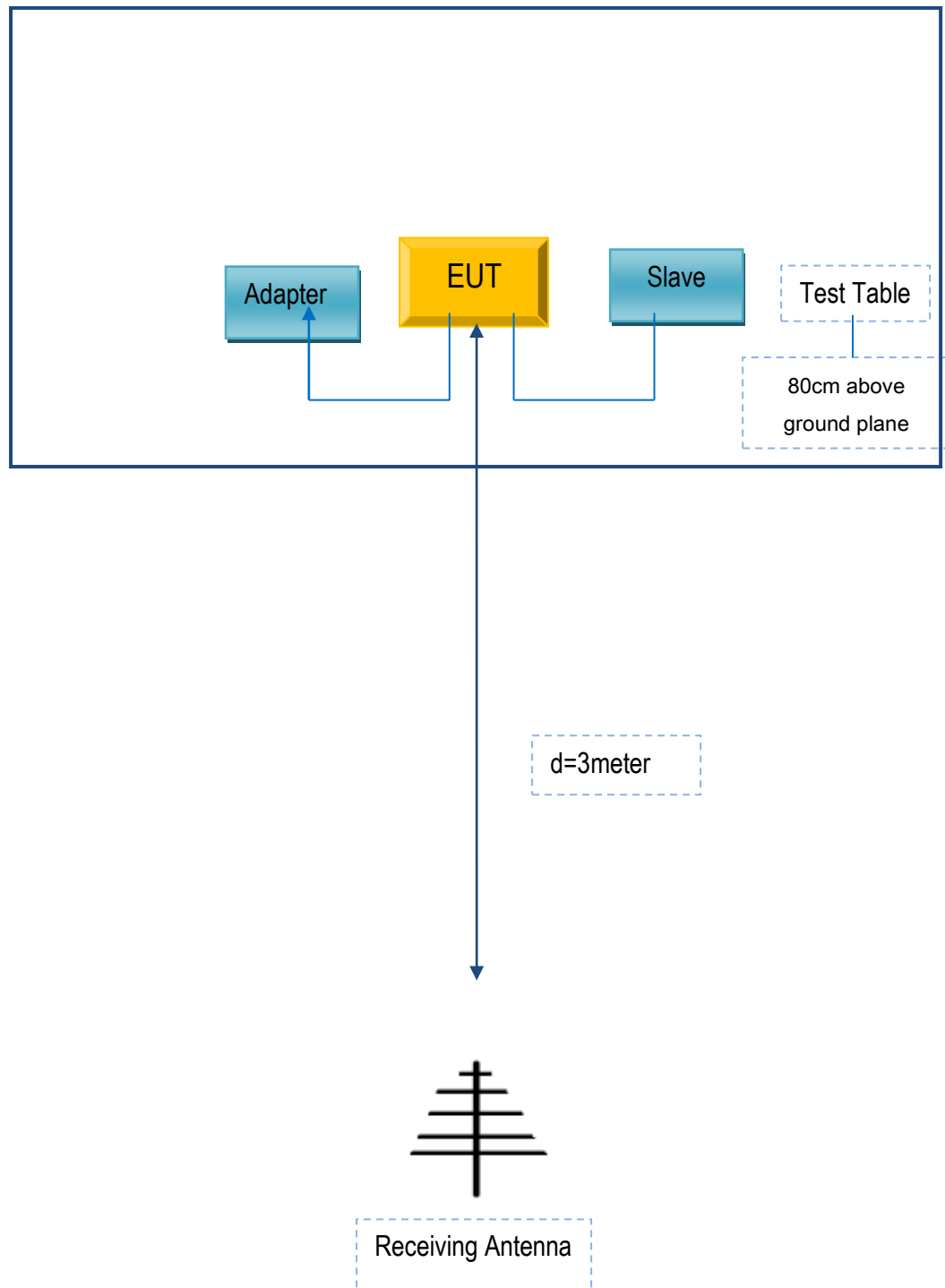
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.i. TEST SET UP BLOCK

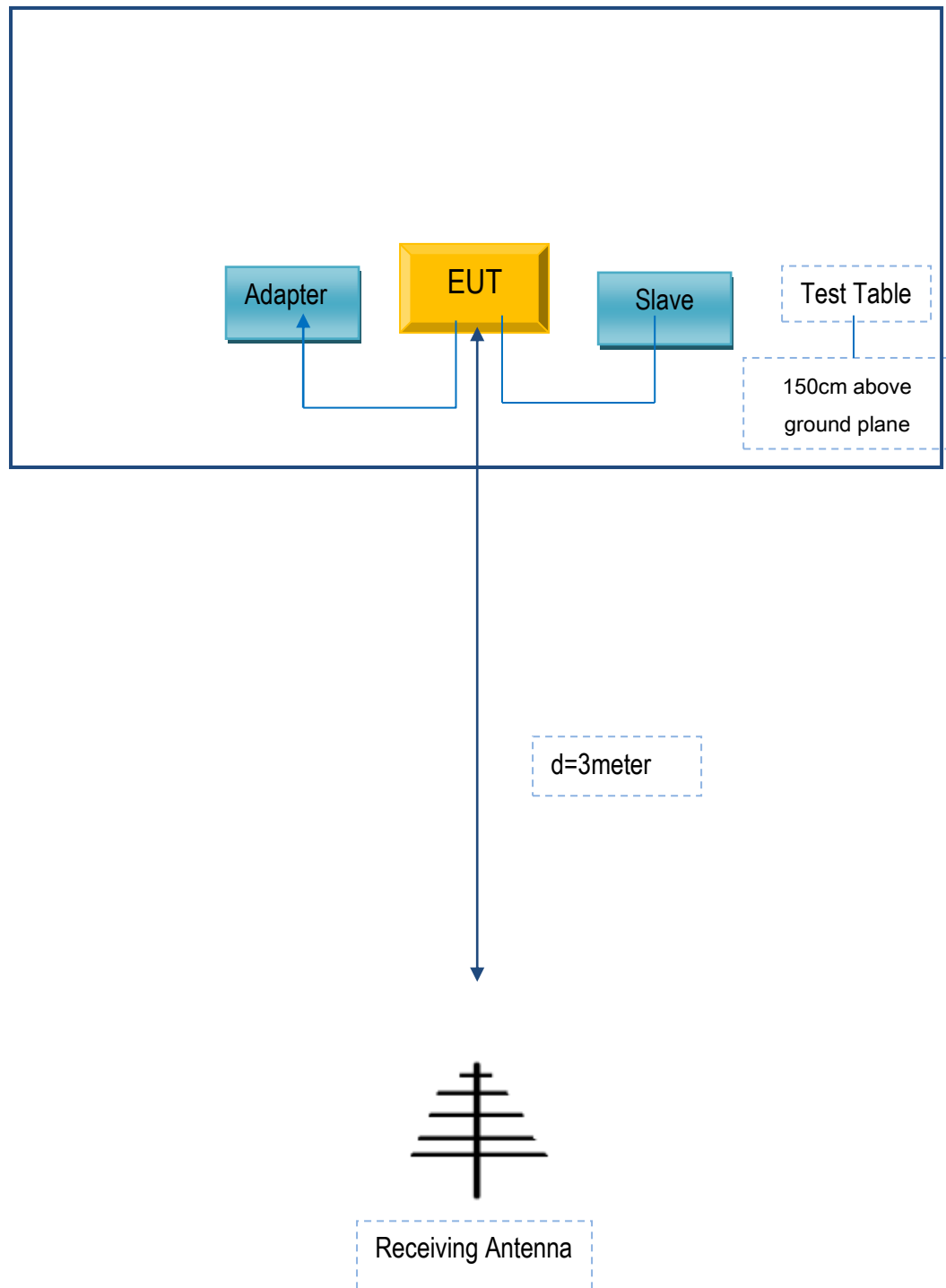
Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions (Below 1GHz) .



Block Configuration Diagram for Radiated Emissions (Above 1GHz) .



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
N/A	N/A	N/A	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	YK84201153021

Test Report No.	17020664-FCC-R1
Page	83 of 84

Annex D. User Manual / Block Diagram / Schematics / Partlist

See attachment

Annex E. DECLARATION OF SIMILARITY

Ningbo Lumiaudio Electronic Technology LTD

Statement

Model number: FLC-6BTS; 24760; FLC-6BT

We hereby state that these models are identical in interior structure, electrical circuits and components, and just model names different. FLC-6BTS (24760) has been added a passive speaker (adjust the volume).

FCC ID:2AKKHFLC

Your assistance on this matter is highly appreciated.
Sincerely,

Signature:



Company Name: Ningbo Lumiaudio Electronic Technology LTD

Date:2017-06-27