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11. Radiated Spurious Emission

11.1 Measurement Limit

FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.



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pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
Clart ~Ctop i requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP



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Quasi-Peak Measurements below 1GHz

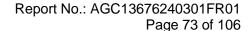
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

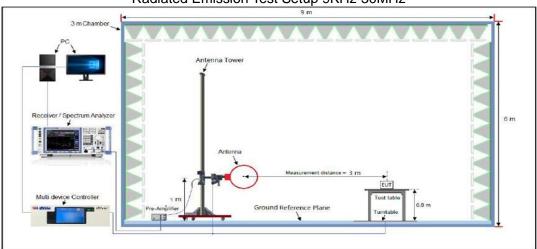
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW setting requirements are as follows:
- 4. If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.
- 5. If the EUT duty cycle is < 98%, set VBW $\ge 1/T$. T is the minimum transmission duration.
- 6. Detector = Peak
- 7. Sweep time = auto
- 8. Trace mode = max hold
- 8. Trace was allowed to stabilize



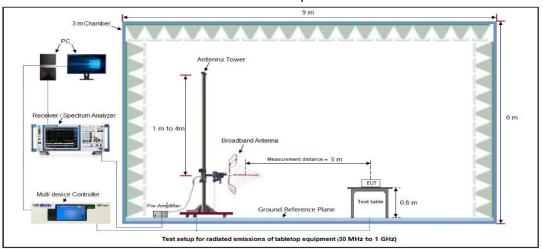


11.3 Measurement Setup (Block Diagram of Configuration)

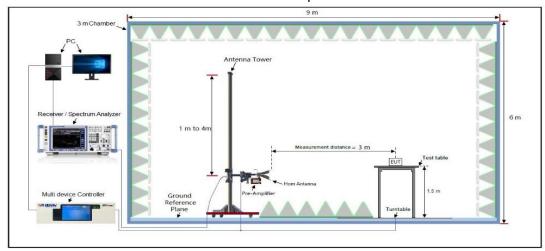
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz





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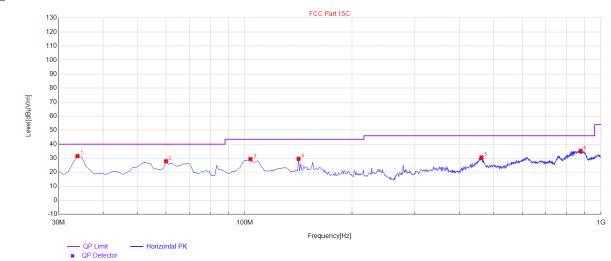
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11.4 Measurement Result

Radiated Emission Below 30MHz

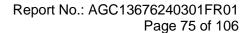
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz								
EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS					
Temperature	25℃	Relative Humidity	55.4%					
Pressure	960hPa	Test Voltage	Normal Voltage					
Test Mode	Mode 3	Antenna Polarity	Horizontal					
130 FCC Part 15C								



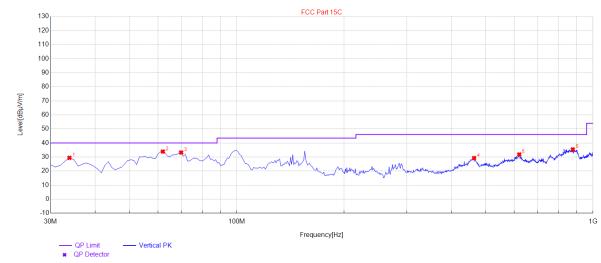
Final Data	ı List	Peak
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NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.88	31.56	12.12	40.00	8.44	100	232	Horizontal
2	60.07	27.87	17.86	40.00	12.13	100	289	Horizontal
3	103.72	29.37	16.88	43.50	14.13	100	1	Horizontal
4	141.55	29.61	16.13	43.50	13.89	100	123	Horizontal
5	461.65	30.58	24.36	46.00	15.42	100	237	Horizontal
6	876.81	35.23	29.44	46.00	10.77	100	244	Horizontal





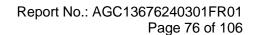
Radiated Emission Test Results at 30MHz-1GHz						
EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS			
Temperature	25 ℃	Relative Humidity	55.4%			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode 3 Antenna Polarity Vertical						



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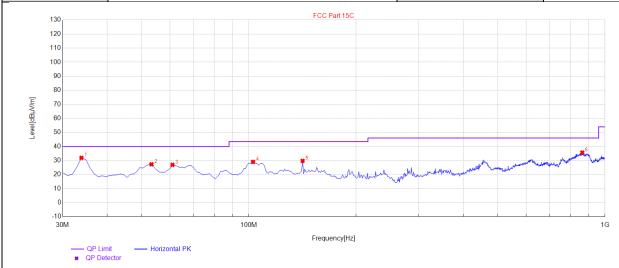
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.88	29.45	12.12	40.00	10.55	100	149	Vertical
2	62.01	33.91	17.23	40.00	6.09	100	140	Vertical
3	69.77	33.21	14.73	40.00	6.79	100	64	Vertical
4	463.59	29.28	23.86	46.00	16.72	100	19	Vertical
5	620.73	31.82	25.82	46.00	14.18	100	246	Vertical
6	877.78	35.40	29.41	46.00	10.60	100	68	Vertical

RESULT: Pass



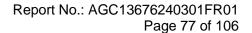


Radiated Emission Test Results at 30MHz-1GHz							
EUT Name BEEBEST Walkie-Talkie FITO Model Name A108OS							
Temperature	25℃	Relative Humidity	55.4%				
Pressure	960hPa	Test Voltage	Normal Voltage				
Test Mode	Mode 6	Antenna Polarity	Horizontal				



Final D)ata	List
---------	------	------

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.88	31.91	12.12	40.00	8.09	100	358	Horizontal
2	53.28	27.30	16.09	40.00	12.70	100	141	Horizontal
3	61.04	26.92	17.54	40.00	13.08	100	239	Horizontal
4	102.75	29.03	16.93	43.50	14.47	100	181	Horizontal
5	141.55	29.79	16.13	43.50	13.71	100	11	Horizontal
6	863.23	35.68	29.90	46.00	10.32	100	153	Horizontal





EUT Name			
	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical
120 110 100 90 80 70 60 50 40 30 20 10 0	100M	My Marine and Marine a	1G

Final	Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	62.01	33.85	17.23	40.00	6.15	100	247	Vertical
2	68.8	32.97	15.04	40.00	7.03	100	117	Vertical
3	83.35	32.53	12.63	40.00	7.47	100	1	Vertical
4	99.84	34.85	17.03	43.50	8.65	100	308	Vertical
5	143.49	33.70	16.37	43.50	9.80	100	359	Vertical
6	884.57	36.26	29.56	46.00	9.74	100	3	Vertical

RESULT: Pass

QP Limit
 QP Detector

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 3/6 are the worst case and recorded in the report.



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Radiated Emissions Test Results for Above 1GHz

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4804.000	50.63	0.08	50.71	74.00	-23.29	peak
4804.000	40.85	0.08	40.93	54.00	-13.07	AVG
7206.000	48.77	2.21	50.98	74.00	-23.02	peak
7206.000	39.26	2.21	41.47	54.00	-12.53	AVG
Remark:						

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	51.41	0.08	51.49	74	-22.51	peak
4804.000	41.15	0.08	41.23	54	-12.77	AVG
7206.000	49.36	2.21	51.57	74	-22.43	peak
7206.000	38.52	2.21	40.73	54	-13.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	50.58	0.08	50.66	74.00	-23.34	peak
4880.000	41.34	0.08	41.42	54.00	-12.58	AVG
7320.000	49.95	2.21	52.16	74.00	-21.84	peak
7320.000	40.74	2.21	42.95	54.00	-11.05	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,
4880.000	52.05	0.08	52.13	74.00	-21.87	peak
4880.000	42.63	0.08	42.71	54.00	-11.29	AVG
7320.000	49.11	2.21	51.32	74.00	-22.68	peak
7320.000	40.21	2.21	42.42	54.00	-11.58	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	51.11	0.22	51.33	74.00	-22.67	peak
4960.000	39.12	0.22	39.34	54.00	-14.66	AVG
7440.000	48.14	2.64	50.78	74.00	-23.22	peak
7440.000	39.33	2.64	41.97	54.00	-12.03	AVG
Pomark:		•		•		

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
4960.000	49.28	0.22	49.5	74.00	-24.5	peak
4960.000	40.85	0.22	41.07	54.00	-12.93	AVG
7440.000	49.71	2.64	52.35	74.00	-21.65	peak
7440.000	39.17	2.64	41.81	54.00	-12.19	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	50.22	0.08	50.30	74.00	-23.70	peak
4804.000	40.78	0.08	40.86	54.00	-13.14	AVG
7206.000	48.96	2.21	51.17	74.00	-22.83	peak
7206.000	37.12	2.21	39.33	54.00	-14.67	AVG
Pemark:						

Remark:
Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.000	51.17	0.08	51.25	74.00	-22.75	peak
4804.000	39.85	0.08	39.93	54.00	-14.07	AVG
7206.000	47.89	2.21	50.10	74.00	-23.90	peak
7206.000	38.15	2.21	40.36	54.00	-13.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4880.000	50.39	0.08	50.47	74.00	-23.53	peak
4880.000	41.85	0.08	41.93	54.00	-12.07	AVG
7320.000	48.96	2.21	51.17	74.00	-22.83	peak
7320.000	41.36	2.21	43.57	54.00	-10.43	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,
4880.000	49.99	0.08	50.07	74.00	-23.93	peak
4880.000	42.31	0.08	42.39	54.00	-11.61	AVG
7320.000	47.85	2.21	50.06	74.00	-23.94	peak
7320.000	40.15	2.21	42.36	54.00	-11.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: Pass



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Radiated Emissions Test Results for Above 1GHz

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	48.99	0.22	49.21	74.00	-24.79	peak
4960.000	41.31	0.22	41.53	54.00	-12.47	AVG
7440.000	47.85	2.64	50.49	74.00	-23.51	peak
7440.000	40.05	2.64	42.69	54.00	-11.31	AVG
Domorki						·

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical

	1			I		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	49.22	0.22	49.44	74.00	-24.56	peak
4960.000	42.03	0.22	42.25	54.00	-11.75	AVG
7440.000	48.14	2.64	50.78	74.00	-23.22	peak
7440.000	39.52	2.64	42.16	54.00	-11.84	AVG
Remark:	-					

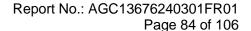
Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: Pass

Note:

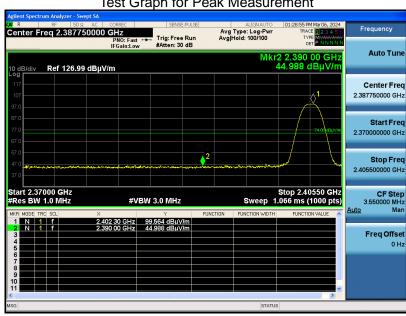
- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.



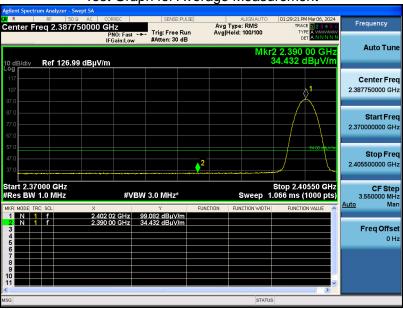


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

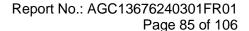
Test Graph for Peak Measurement







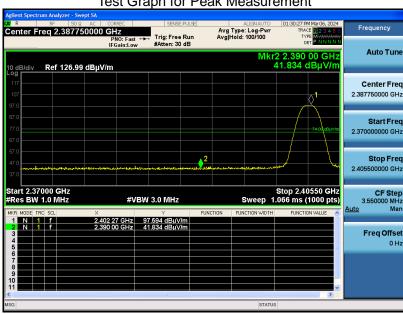
RESULT: Pass



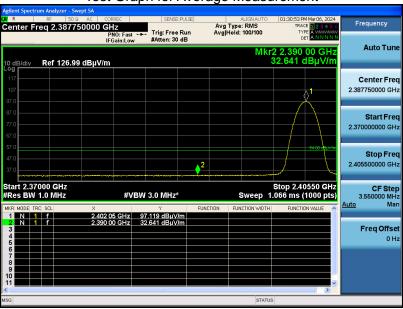


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

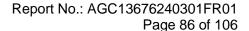
Test Graph for Peak Measurement







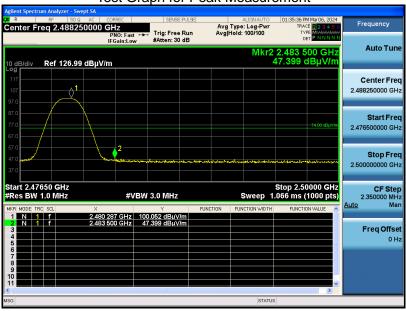
RESULT: Pass



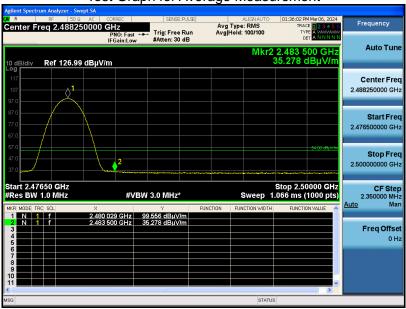


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

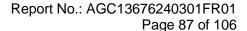
Test Graph for Peak Measurement







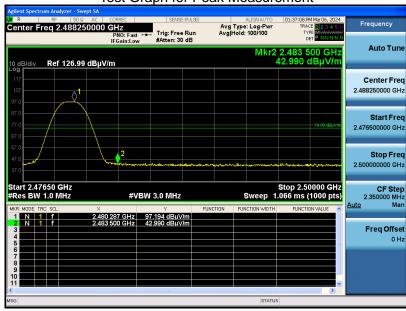
RESULT: Pass



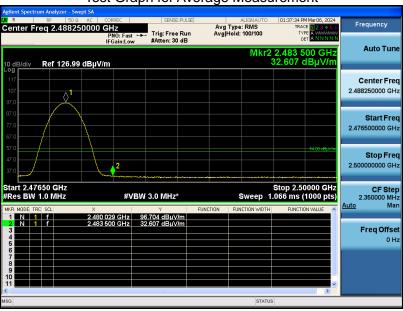


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

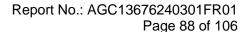
Test Graph for Peak Measurement







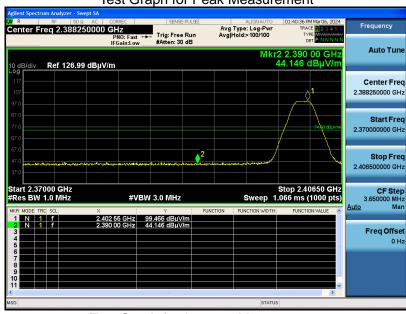
RESULT: Pass



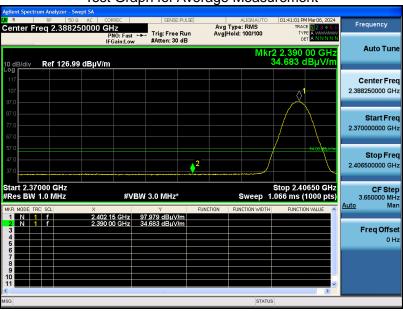


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Horizontal

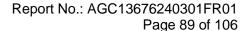
Test Graph for Peak Measurement







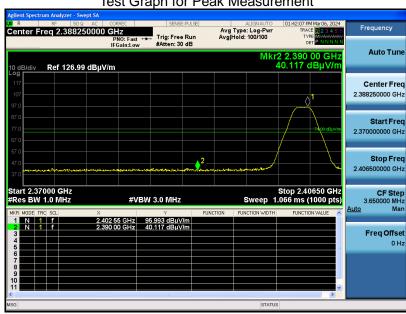
RESULT: Pass



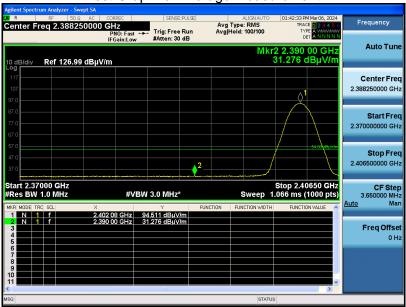


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Vertical

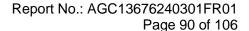
Test Graph for Peak Measurement







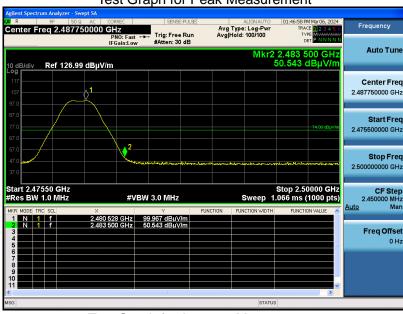
RESULT: Pass





EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Horizontal

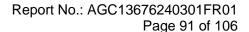
Test Graph for Peak Measurement







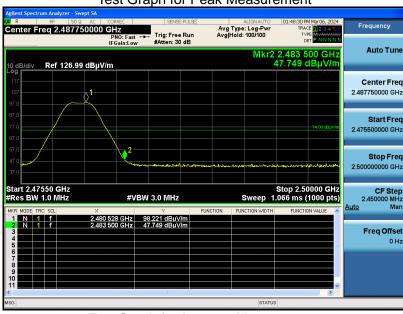
RESULT: Pass



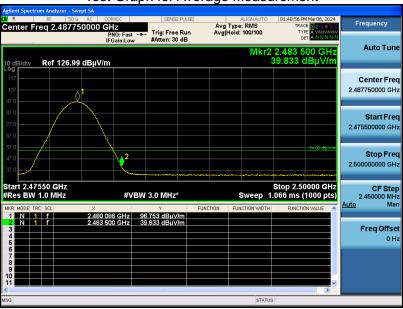


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical

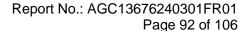
Test Graph for Peak Measurement







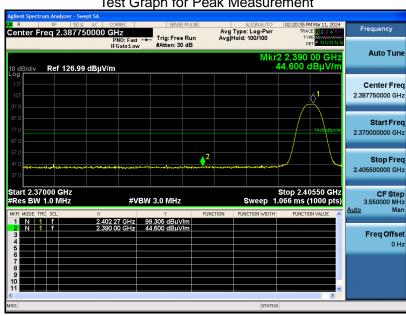
RESULT: Pass



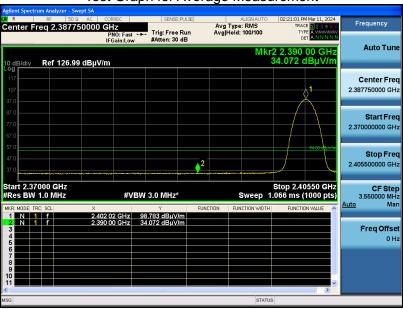


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Horizontal

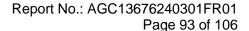
Test Graph for Peak Measurement







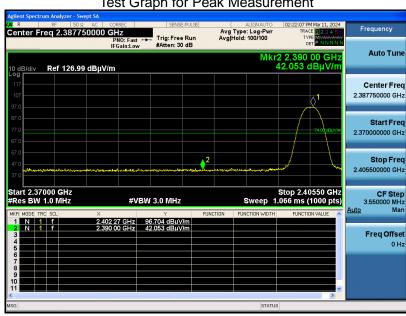
RESULT: Pass



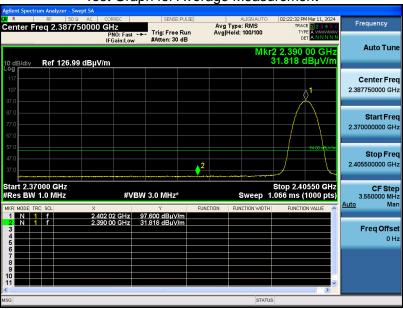


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Vertical

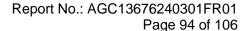
Test Graph for Peak Measurement







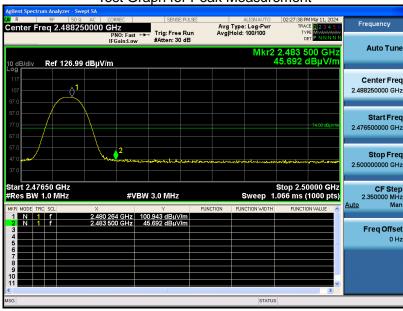
RESULT: Pass



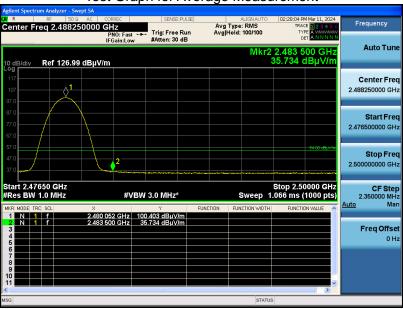


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Horizontal

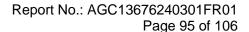
Test Graph for Peak Measurement







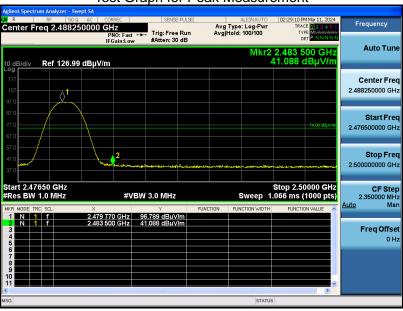
RESULT: Pass



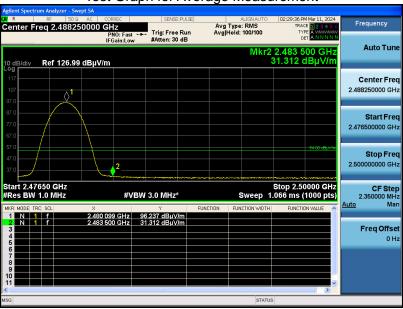


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Vertical

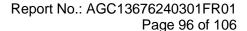
Test Graph for Peak Measurement







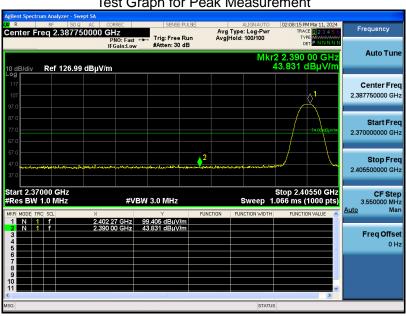
RESULT: Pass



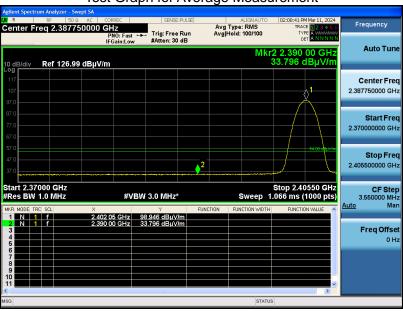


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Horizontal

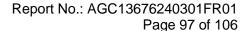
Test Graph for Peak Measurement







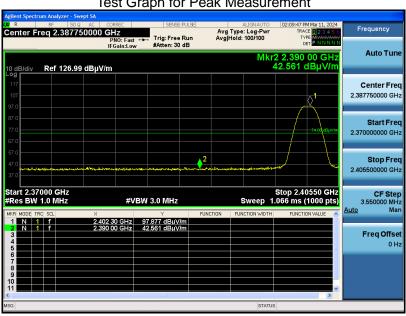
RESULT: Pass



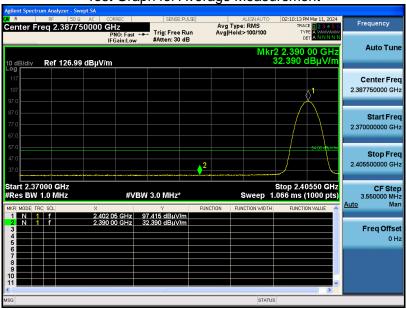


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Vertical

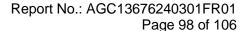
Test Graph for Peak Measurement







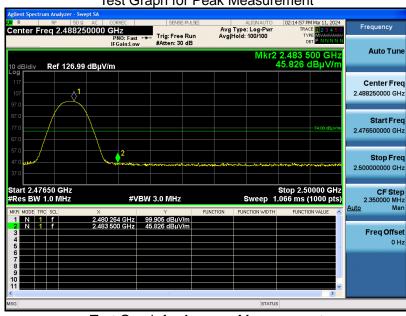
RESULT: Pass



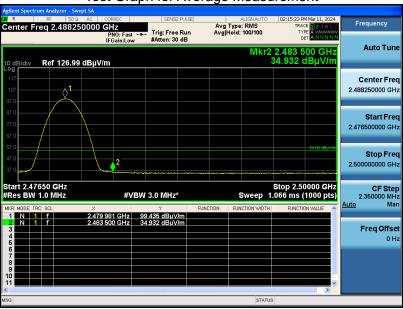


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Horizontal

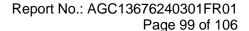
Test Graph for Peak Measurement







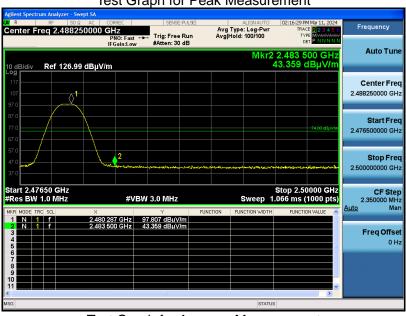
RESULT: Pass



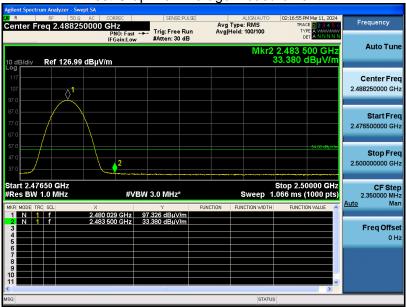


EUT Name	BEEBEST Walkie-Talkie FITO	Model Name	A108OS
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Vertical

Test Graph for Peak Measurement







RESULT: Pass

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



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12. AC Power Line Conducted Emission Test

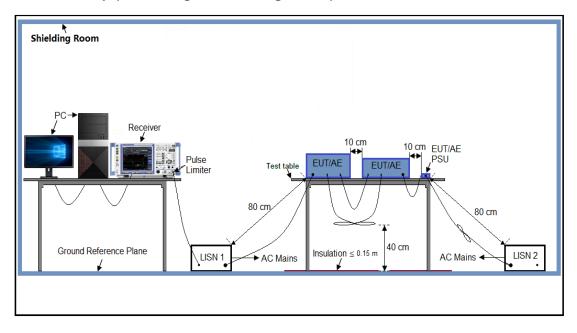
12.1 Measurement Limit

Francis	Maximum RF Line Voltage				
Frequency	Q.P. (dBµV)	Average (dBμV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 Measurement Setup (Block Diagram of Configuration)





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12.3 Preliminary Procedure of Line Conducted Emission Test

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

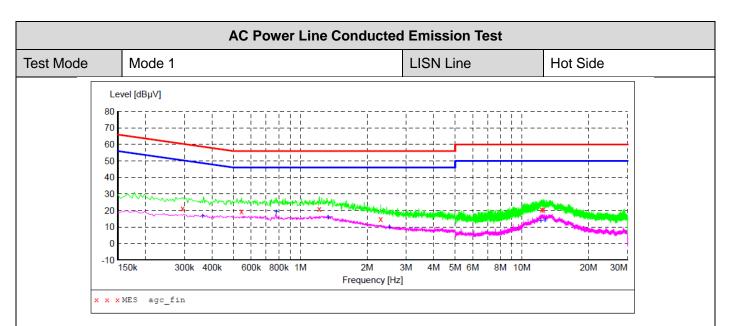
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- The test data of the worst case condition(s) was reported on the Summary Data page.

12.5 Measurement Results





MEASUREMENT RESULT: "agc fin"

2024/3/6 11 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.294000 0.542000 1.218000 2.306000	21.20 19.60 21.10 14.70	6.1 6.2 6.2 6.3	60 56 56 56	39.2 36.4 34.9 41.3	QP QP	L1 L1 L1 L1
12.310000 12.498000	20.70 20.50	6.8 6.8	60 60	39.3 39.5	QP QP	L1 L1

MEASUREMENT RESULT: "agc fin2"

2024/3/6 11:14 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.362000 0.778000 1.334000 2.522000 12.194000 12.702000	16.50 19.00 15.90 9.60 13.70 14.10	6.1 6.2 6.2 6.3 6.8	49 46 46 46 50		AV AV AV AV AV	L1 L1 L1 L1 L1

RESULT: Pass

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t Mode	Mode 1		LISN	Line	Neutral Side
Le	/el [dΒμV]		•		
80 г		,,,-,-,-,-,-			
70					
60					
50					
40		_	i i i		
30		! _ ! _ ! _ ! _ ! _ ! _ !			! !!
20	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
10			X		
0					
₋₁₀ L	i i				i
1 10	50k 300k	400k 600k 800k 1M	2M 3M 4N Frequency [Hz]	I 5M 6M 8M 10M	20M 30M

MEASUREMENT RESULT: "agc_fin"

2024/3/6 11 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.322000 0.774000 1.478000 2.806000 2.890000 13.502000	21.10 25.70 19.70 14.30 14.30 21.00	6.1 6.2 6.3 6.3 6.8	60 56 56 56 56	38.6 30.3 36.3 41.7 41.7 39.0	QP QP QP QP QP QP	N N N N N

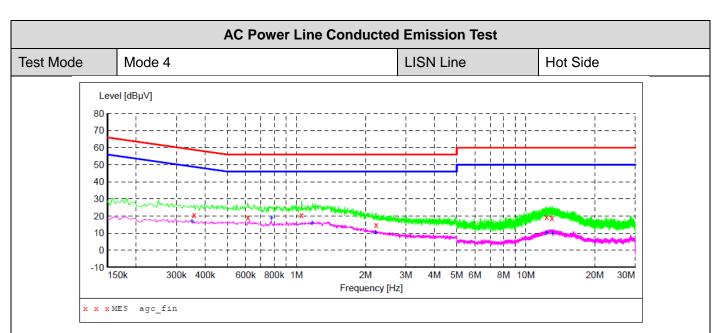
MEASUREMENT RESULT: "agc_fin2"

2024/3/6 11:17 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line
0.362000	16.70	6.1	49	32.0	AV	N
0.778000	20.20	6.2	46	25.8	AV	N
1.314000	16.10	6.2	46	29.9	AV	N
2.138000	11.40	6.2	46	34.6	AV	N
12.258000	11.90	6.8	50	38.1	AV	N
12.778000	12.80	6.8	50	37.2	AV	N

RESULT: PASS

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MEASUREMENT RESULT: "agc_fin"

2024/3/6 11	:26					
Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line
0.358000	20.40	6.1	59	38.4	QP	L1
0.614000	19.20	6.2	56	36.8	QP	L1
1.054000	20.50	6.2	56	35.5	QP	L1
2.226000	14.80	6.3	56	41.2	QP	L1
12.314000	19.50	6.8	60	40.5	QP	L1
13.014000	18.80	6.8	60	41.2	OP	T.1

MEASUREMENT RESULT: "agc fin2"

2024/3/6 11:26 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.350000 0.778000 1.170000 2.210000 12.314000	16.80 18.90 15.70 10.60 10.00 9.60	6.1 6.2 6.2 6.3 6.8	49 46 46 46 50	32.2 27.1 30.3 35.4 40.0 40.4	AV AV AV AV	L1 L1 L1 L1 L1

RESULT: Pass

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Level [dBµV] 80 70 60 50 40 30	lode	Mode 4	LISN Line	Neutral Side
70	Le	el [dBµV]		
	70 - 60 - 50 - 40 -			

MEASUREMENT RESULT: "agc fin"

2024/3/6 11:20 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.334000	20.80	6.1	59	38.6	QP	N
0.790000	23.50	6.2	56	32.5	QP	N
1.198000	21.20	6.2	56	34.8	QP	N
2.238000	15.80	6.3	56	40.2	QP	N
13.286000	20.60	6.8	60	39.4	QP	N
16.350000	17.60	6.9	60	42.4	QP	N

MEASUREMENT RESULT: "agc fin2"

2024/3/6 11:20 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.346000	16.60	6.1	49	32.5	AV	N
0.774000	19.50	6.2	46	26.5	AV	N
1.082000	15.60	6.2	46	30.4	AV	N
2.218000	11.10	6.3	46	34.9	AV	N
12.194000	10.70	6.8	50	39.3	AV	N
13.458000	11.80	6.8	50	38.2	AV	N

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC13676240301AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC13676240301AP02

----End of Report----



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- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.