

FCC Test Report

Report No.: AGC01110230760FR02

FCC ID : 2AOKB-A3135

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: soundcore Motion 300

BRAND NAME: soundcore

MODEL NAME : A3135

APPLICANT: Anker Innovations Limited

DATE OF ISSUE : Sep. 05, 2023

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report	Version	Revise Time	Issued Date	Valid Version	Notes
V	1.0	/	Sep. 05, 2023	Valid	Initial Release

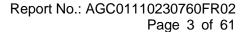




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1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited		
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong		
Manufacturer	Anker Innovations Limited		
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong		
Factory	N/A		
Address	N/A		
Product Designation	soundcore Motion 300		
Brand Name	soundcore		
Test Model	A3135		
Date of receipt of test item	Aug. 01, 2023		
Date of test	Aug. 01, 2023 to Sep. 05, 2023		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By	Cost cheng	
	Cool Cheng (Project Engineer)	Sep. 05, 2023
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Sep. 05, 2023
Approved By	Max Zhang	
	Max Zhang (Authorized Officer)	Sep. 05, 2023



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "soundcore Motion 300". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

O	0.400.011.4.0.400011	
Operation Frequency	2.402 GHz to 2.480GHz	
DE O 40 4 De est	BLE GFSK 1Mbps: 3.991dBm (Max)	
RF Output Power	BLE GFSK 2Mbps: 3.796dBm (Max)	
Bluetooth Version	V5.3	
	BR □GFSK, EDR □π /4-DQPSK, □8DPSK	
Modulation	BLE SGFSK 1Mbps SGFSK 2Mbps	
Number of channels	40 Channels	
Antenna Designation	FPC Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	4.64dBi	
Hardware Version	V5.0A	
Software Version	V1.05	
Power Supply	DC 7.2V by battery or DC 5V by adapter	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402 MHz	
	1	2404 MHz	
2400~2483.5MHz	:	:	
	38	2478 MHz	
	39	2480 MHz	



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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AOKB-A3135** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.



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2.8. DUTY CYCLE

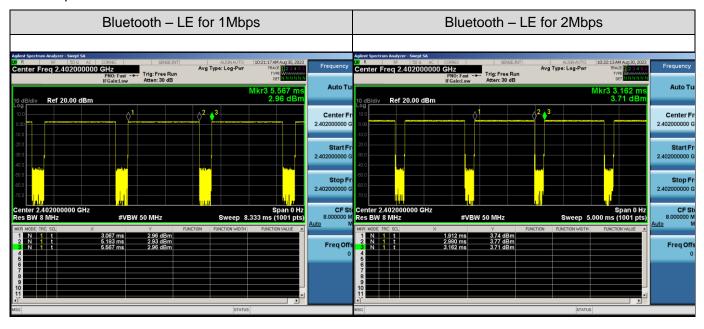
The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(µs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	2116	84.64	0.72	0.47
BLE_2Mbps	1068	85.44	0.68	0.94

Remark:

- 1. Duty Cycle factor = 10 * log (1/ Duty cycle)
- The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value

The test plots as follows:





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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty	
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$	
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$	
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \%$	
Uncertainty of Occupied Channel Bandwidth	U _c = ±2 %	





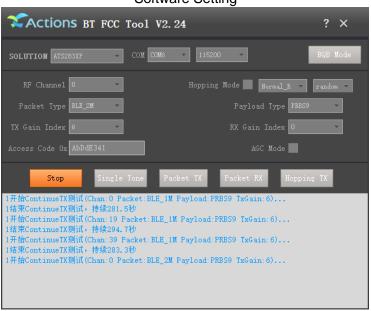
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX_2402_GFSK 1Mbps		
2	Middle channel TX_2440_GFSK 1Mbps		
3	High channel TX_2480_GFSK 1Mbps		
4	Low channel TX_2402_GFSK 2Mbps		
5	Middle channel TX_2440_GFSK 2Mbps		
6	High channel TX_2480_GFSK 2Mbps		

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting



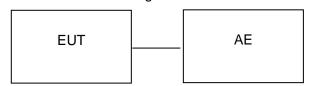


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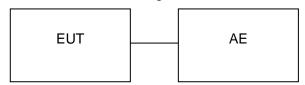
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	soundcore Motion 300	A3135	2AOKB-A3135	EUT
2	Control Box	USB-TTL	N/A	AE
3	Huawei adapter	HW-200325CP0	Input:100-240V 50/60Hz,1.8A Output:5V2A/9V2A/12V2A/15V3A/20 V3.25A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA			

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

1201 2 CON INIZATI OF CONSCIONAL PROPERTY INICONOMICS INCOME.						
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024	
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024	
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A	

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
2.4GHz Filter	EM Electronics	2400-2500	N/A	Mar. 22, 2022	Mar. 21, 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 02, 2022	Sep. 01, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



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7. PEAK OUTPUT POWER

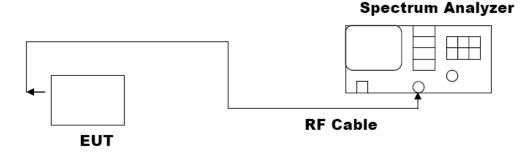
7.1. MEASUREMENT PROCEDURE

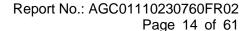
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer.
- 2. RBW ≥ DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP







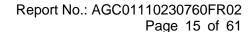
7.3. LIMITS AND MEASUREMENT RESULT

	101 2001 101 101 101 101 101 101 101 101						
Test Data of Conducted Output Power							
Test Mode	Test Mode Test Channel Peak Power Limits (MHz) (dBm) Pass or F						
	2402	3.991	≤30	Pass			
GFSK 1M	2440	3.933	≤30	Pass			
	2480	3.857	≤30	Pass			

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Pass or Fail			
	2402	3.796	≤30	Pass	
GFSK 2M	2440	3.697	≤30	Pass	
	2480	3.591	≤30	Pass	

Test Graphs of Conducted Output Power

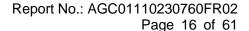














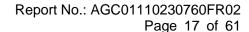
Test Graphs of Conducted Output Power Agilent Spectrum Annays.

R RF S0 2 AC
Center Freq 2.402000000 GHz

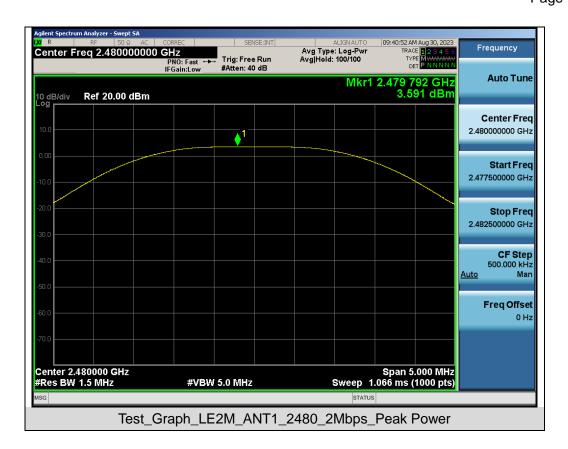
PNO: Fast →
IFGain:Low Frequency Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run #Atten: 40 dB Auto Tune Mkr1 2.401 722 GHz 3.796 dBm Ref 30.00 dBm 0 dB/div Center Freq 2.402000000 GHz **∮**1 Start Fred 2.399500000 GHz Stop Fred 2.404500000 GHz CF Step 500.000 kHz Mar Auto Freq Offset Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz #VBW 5.0 MHz Sweep 1.066 ms (1000 pts) Test_Graph_LE2M_ANT1_2402_2Mbps_Peak Power Frequency Center Freq 2.440000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run PNO: Fast ↔ IFGain:Low **Auto Tune** Mkr1 2.439 767 GHz 3.697 dBm Ref 20.00 dBm 10 dB/div Log Center Freq 2.440000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz CF Step 500.000 kHz Freq Offset 0 Hz Center 2.440000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.066 ms (1000 pts) **#VBW 5.0 MHz**

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Test_Graph_LE2M_ANT1_2440_2Mbps_Peak Power









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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer.
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer.
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

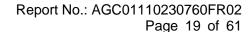
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

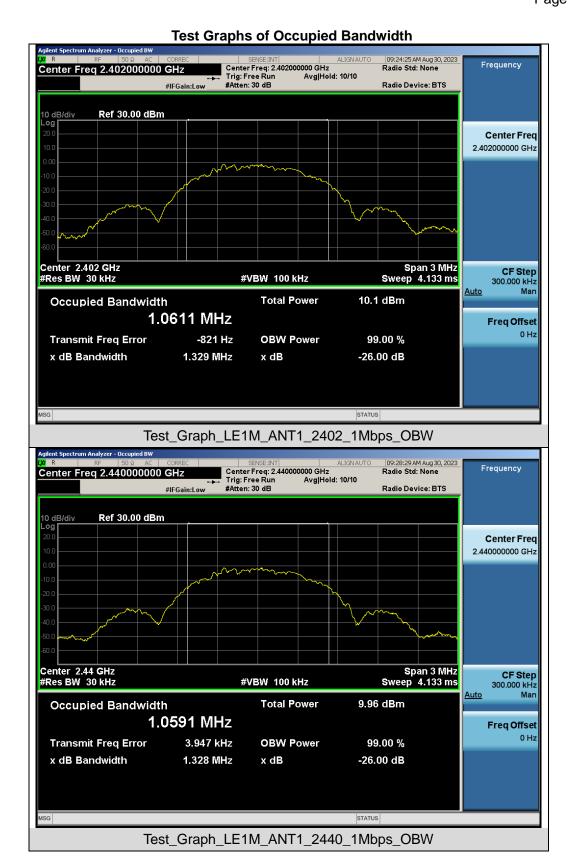
8.3. LIMITS AND MEASUREMENT RESULTS

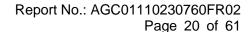
Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel	99% Occupied	-6dB	-6dB Bandwidth	Pass or	
rest wode	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)	Limits (MHz)	Fail	
	2402	1.061	0.718	≥0.5	Pass	
GFSK 1M	2440	1.059	0.717	≥0.5	Pass	
	2480	1.062	0.721	≥0.5	Pass	

Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel	99% Occupied	-6dB	-6dB Bandwidth	Pass or	
lest wode	(MHz)	Bandwidth (MHz)	Bandwidth (MHz)	Limits (MHz)	Fail	
	2402	2.062	1.186	≥0.5	Pass	
GFSK 2M	2440	2.059	1.238	≥0.5	Pass	
	2480	2.062	1.184	≥0.5	Pass	







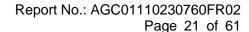








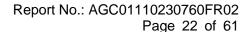
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/







Test_Graph_LE1M_ANT1_2480_1Mbps_DTSBW

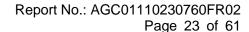




Test Graphs of Occupied Bandwidth 09:34:52 AM Aug 30, 2023 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Center Freq 2.402000000 GHz Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS Ref 30.00 dBm Center Freq 2.402000000 GHz Span 5 MHz Sweep 6.867 ms Center 2.402 GHz #Res BW 30 kHz CF Step 500.000 kHz **#VBW 100 kHz** Mar 9.39 dBm **Total Power** Occupied Bandwidth 2.0617 MHz Freq Offset 0 Hz 4.050 kHz 99.00 % **Transmit Freq Error OBW Power** -26.00 dB x dB Bandwidth 2.520 MHz x dB STATUS Test_Graph_LE2M_ANT1_2402_2Mbps_OBW | 09:38:57 AM Aug 30, 2023 Radio Std: None Frequency Center Freq: 2.440000000 GHz
Trig: Free Run Avg|Ho Center Freg 2.440000000 GHz Avg|Hold:>10/10 Radio Device: BTS Ref 30.00 dBm Center Freq 2.440000000 GHz Center 2.44 GHz #Res BW 30 kHz Span 5 MHz Sweep 6.867 ms CF Step 500.000 kHz **#VBW 100 kHz** Man **Total Power** 9.24 dBm Occupied Bandwidth 2.0590 MHz Freq Offset 8.546 kHz **OBW Power** 99.00 % Transmit Freq Error x dB Bandwidth 2.522 MHz x dB -26.00 dB

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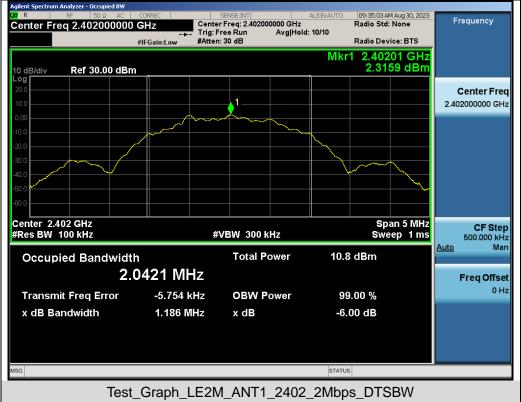
Test_Graph_LE2M_ANT1_2440_2Mbps_OBW



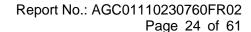








Web: http://www.agccert.com/







Test_Graph_LE2M_ANT1_2480_2Mbps_DTSBW

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer.
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

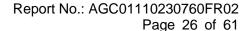
The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

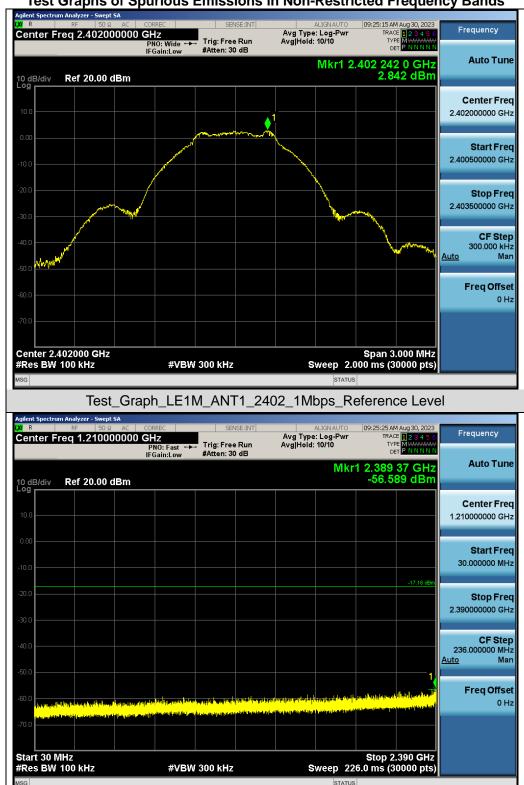
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
And Park In Live	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS			



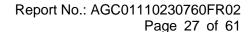


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



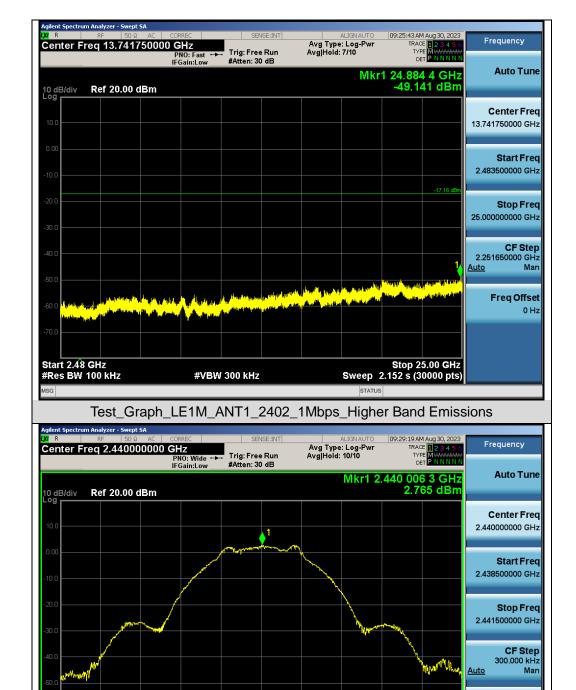
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Test_Graph_LE1M_ANT1_2402_1Mbps_Lower Band Emissions



Freq Offset 0 Hz





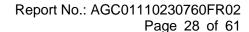
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Test_Graph_LE1M_ANT1_2440_1Mbps_Reference Level

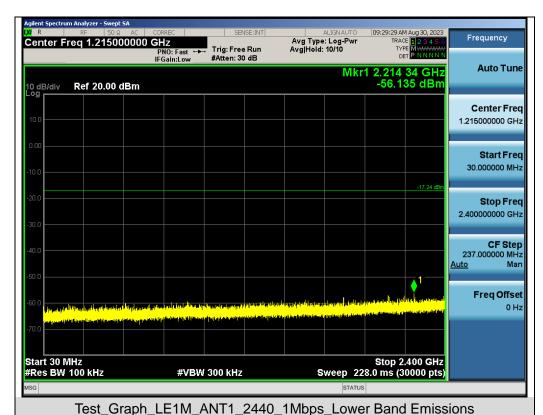
#VBW 300 kHz

Span 3.000 MHz Sweep 2.000 ms (30000 pts)

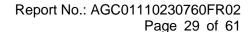
Center 2.440000 GHz #Res BW 100 kHz







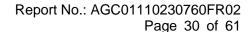










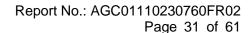




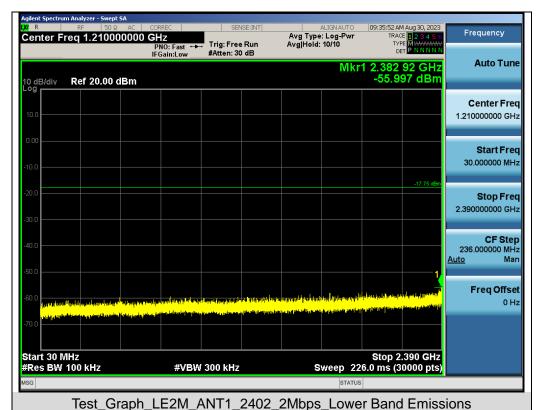


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands









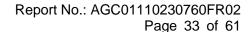






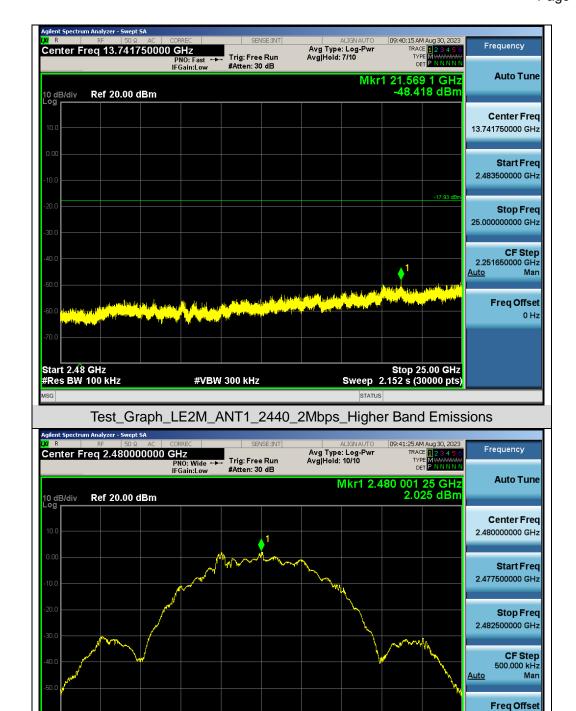


09:39:57 AM Aug 30, 2023 Avg Type: Log-Pwi Avg|Hold: 10/10 Frequency Center Freq 1.215000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low **Auto Tune** Mkr1 2.355 44 GHz -57.094 dBm 10 dB/div Ref 20.00 dBm Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Frea 2.400000000 GHz **CF Step** 237.000000 MHz Man Freq Offset 0 Hz Start 30 MHz #Res BW 100 kHz Stop 2.400 GHz Sweep 228.0 ms (30000 pts) #VBW 300 kHz Test_Graph_LE2M_ANT1_2440_2Mbps_Lower Band Emissions



0 Hz





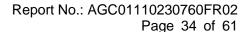
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Test_Graph_LE2M_ANT1_2480_2Mbps_Reference Level

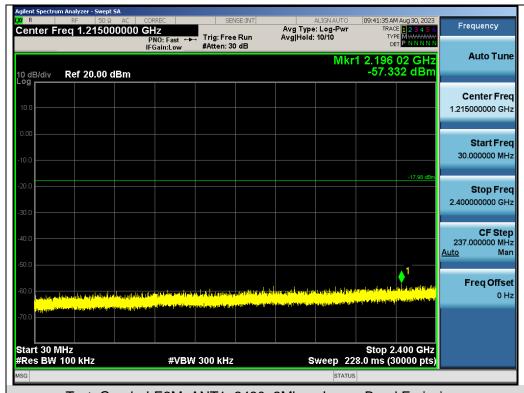
#VBW 300 kHz

Span 5.000 MHz Sweep 2.000 ms (30000 pts)

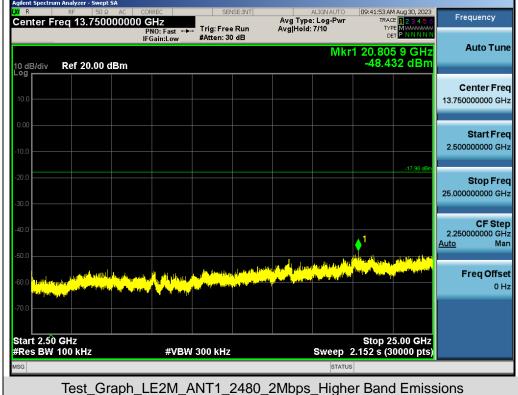
Center 2.480000 GHz #Res BW 100 kHz

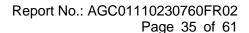




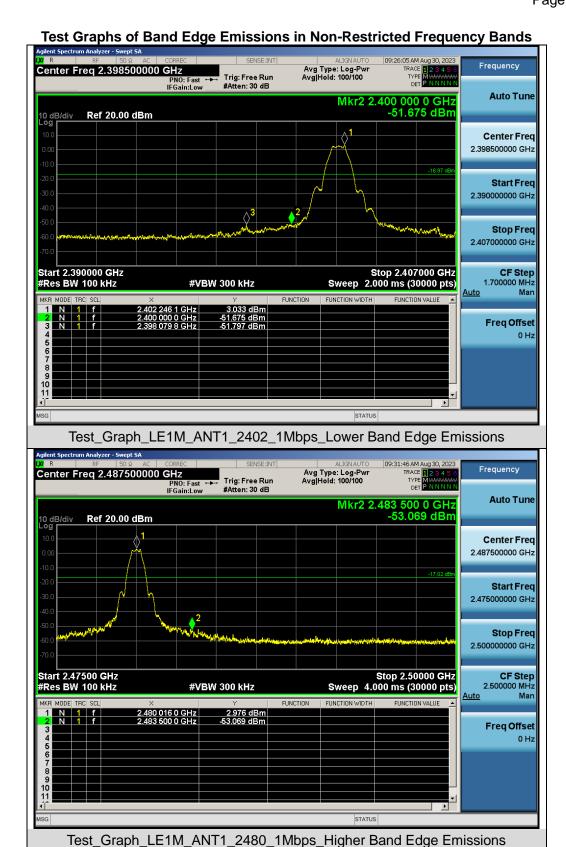


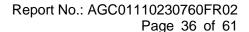
Test_Graph_LE2M_ANT1_2480_2Mbps_Lower Band Emissions













Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands :32 AM Aug 30, 2023 Frequency Center Freq 2.398500000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.400 000 0 GHz -29.457 dBm Ref 20.00 dBm Center Freq 2.398500000 GHz Start Freq 2.390000000 GHz Stop Freq 2.407000000 GHz **CF Step** 1.700000 MHz Start 2.390000 GHz #Res BW 100 kHz Stop 2.407000 GHz Sweep 2.000 ms (30000 pts) **#VBW** 300 kHz Man FUNCTION FUNCTION WIDTH 2.402 013 2 GHz 2.400 000 0 GHz 2.694 dBm -29.457 dBm Freq Offset 0 Hz Test_Graph_LE2M_ANT1_2402_2Mbps_Lower Band Edge Emissions 09:42:15 AM Aug 30, 2023 Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 Center Freq 2.487500000 GHz Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.483 500 0 GHz -55.134 dBm Ref 20.00 dBm Center Freq 2.487500000 GHz Start Freq 2.475000000 GHz Stop Freq 2.500000000 GHz Stop 2.50000 GHz Sweep 4.000 ms (30000 pts) **CF Step** 2.500000 MHz Start 2.47500 GHz #Res BW 100 kHz #VBW 300 kHz Man FUNCTION FUNCTION WIDTH 2.228 dBm -55.134 dBm Freq Offset

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Test_Graph_LE2M_ANT1_2480_2Mbps_Higher Band Edge Emissions



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer.
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

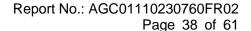
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density						
Test Mode Test Channel Power density Limit (MHz) (dBm/3kHz) F						
	2402	-11.810	≤8	Pass		
GFSK 1M	2440	-11.868	≤8	Pass		
	2480	-11.899	≤8	Pass		

Test Data of Conducted Output Power Spectral Density							
Test Mode	Test Channel (MHz)	Pass or Fail					
	2402	-15.066	≤8	Pass			
GFSK 2M	2440	-15.356	≤8	Pass			
	2480	-15.455	≤8	Pass			





Test Graphs of Conducted Output Power Spectral Density 09:25:04 AM Aug 30, 2023 Frequency Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB PNO: Wide ↔ IFGain:Low Auto Tune Mkr1 2.402 082 5 GHz -11.810 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.402000000 GHz Start Freq 2.401461500 GHz morphilippe man source of the programment mmh Stop Freq 2.402538500 GHz CF Step 107.700 kHz Freq Offset 0 Hz Center 2.4020000 GHz #Res BW 3.0 kHz Span 1.077 MHz Sweep 113.6 ms (1000 pts) #VBW 10 kHz Test_Graph_LE1M_ANT1_2402_1Mbps_PSD 09:29:08 AM Aug 30, 2023 Frequency Avg Type: Log-Pwr Avg|Hold: 96/100 Center Freq 2.440000000 GHz PNO: Wide +-- Trig: Free Run IFGain:Low #Atten: 30 dB **Auto Tune** Mkr1 2.440 086 7 GHz -11.868 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.440000000 GHz Start Freq 2.439462250 GHz Mary mary plant was proposed and a second Warner broken harry Stop Freq 2.440537750 GHz CF Step 107.550 kHz Man Freq Offset

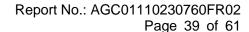
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Test_Graph_LE1M_ANT1_2440_1Mbps_PSD

#VBW 10 kHz

Span 1.076 MHz Sweep 113.4 ms (1000 pts)

Center 2.4400000 GHz #Res BW 3.0 kHz





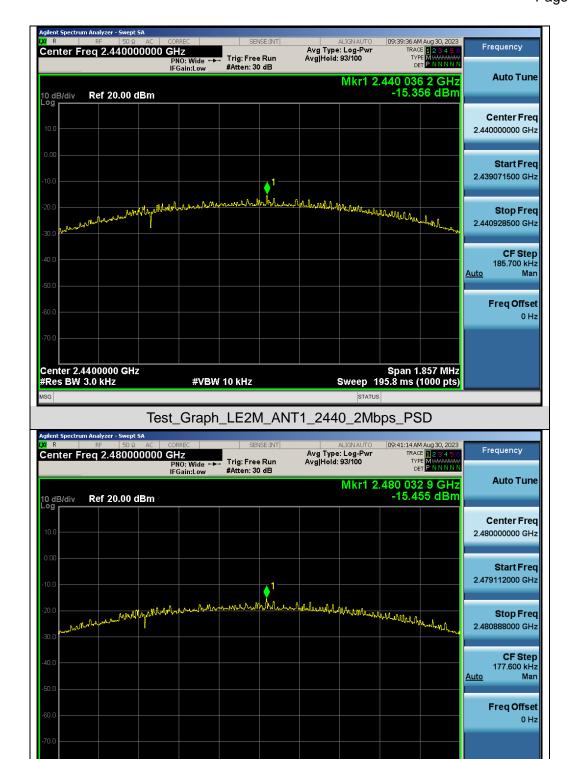












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Test_Graph_LE2M_ANT1_2480_2Mbps_PSD

#VBW 10 kHz

Span 1.776 MHz Sweep 187.3 ms (1000 pts)

Center 2.4800000 GHz #Res BW 3.0 kHz

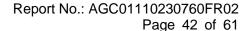


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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

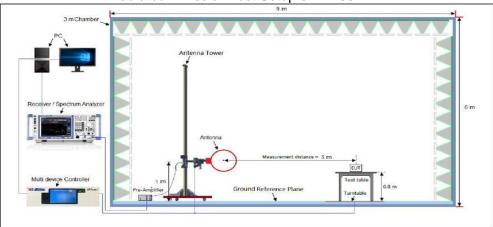
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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.
- 5. 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. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the 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.



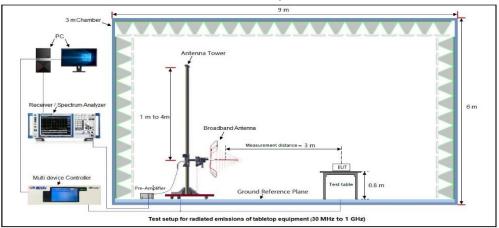


11.2. TEST SETUP

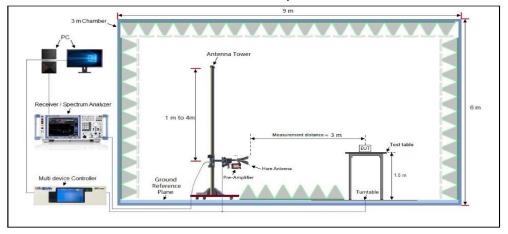
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz





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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

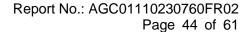
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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

11.4. TEST RESULT

Radiated emission below 30MHz

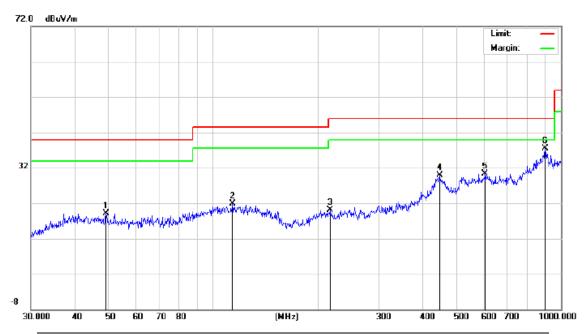
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.





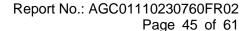
Radiated emission from 30MHz to 1000MHz

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



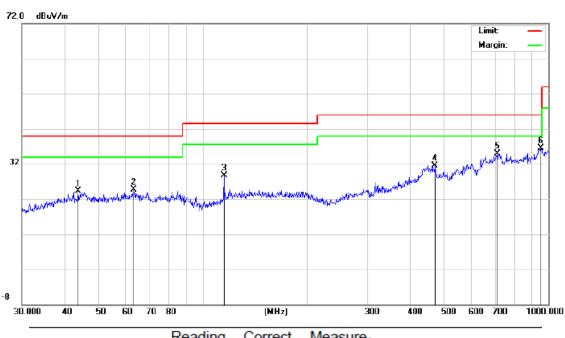
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		49.3594	5.79	13.24	19.03	40.00	-20.97	peak
2	1	114.1137	5.66	16.34	22.00	43.50	-21.50	peak
3	2	216.7828	5.73	14.42	20.15	46.00	-25.85	peak
4	4	147.9821	5.13	24.82	29.95	46.00	-16.05	peak
5	6	605.6592	5.09	25.13	30.22	46.00	-15.78	peak
6	* (900.1473	5.80	31.78	37.58	46.00	-8.42	peak

RESULT: PASS





EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		43.6584	7.27	16.94	24.21	40.00	-15.79	peak
2		63.3132	7.65	17.07	24.72	40.00	-15.28	peak
3		115.3205	11.88	16.88	28.76	43.50	-14.74	peak
4		470.5232	7.02	24.46	31.48	46.00	-14.52	peak
5		711.6734	6.46	28.51	34.97	46.00	-11.03	peak
6	*	952.0937	6.05	30.52	36.57	46.00	-9.43	peak

RESULT: PASS

- 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.



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Radiated emission above 1GHz

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	43.85	0.08	43.93	74	-30.07	peak
4804.000	35.36	0.08	35.44	54	-18.56	AVG
7206.000	38.95	2.21	41.16	74	-32.84	peak
7206.000	31.59	2.21	33.8	54	-20.2	AVG
		_				

Remark:

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

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.74	0.08	44.82	74	-29.18	peak
4804.000	34.45	0.08	34.53	54	-19.47	AVG
7206.000	38.36	2.21	40.57	74	-33.43	peak
7206.000	30.19	2.21	32.4	54	-21.6	AVG

Remark:

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



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EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	44.52	0.14	44.66	74	-29.34	peak
4880.000	34.63	0.14	34.77	54	-19.23	AVG
7320.000	39.81	2.36	42.17	74	-31.83	peak
7320.000	31.47	2.36	33.83	54	-20.17	AVG
Remark:						
- 1 ^ 1	Ft O.bl					

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

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	45.39	0.14	45.53	74	-28.47	peak
4880.000	36.45	0.14	36.59	54	-17.41	AVG
7320.000	40.74	2.36	43.1	74	-30.9	peak
7320.000	32.51	2.36	34.87	54	-19.13	AVG

Remark:

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



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EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	44.59	0.22	44.81	74	-29.19	peak
4960.000	35.41	0.22	35.63	54	-18.37	AVG
7440.000	38.36	2.64	41	74	-33	peak
7440.000	29.25	2.64	31.89	54	-22.11	AVG
Remark:						

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

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	42.78	0.22	43	74	-31	peak
4960.000	34.26	0.22	34.48	54	-19.52	AVG
7440.000	38.59	2.64	41.23	74	-32.77	peak
7440.000	29.36	2.64	32	54	-22	AVG
Remark:	emark:					

-

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.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

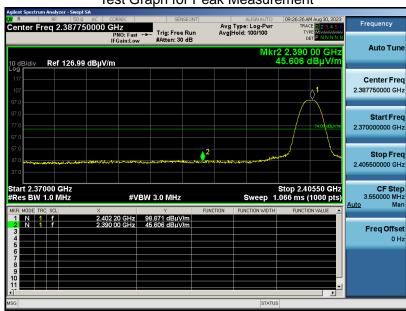


BLE GFSK 1Mbps:

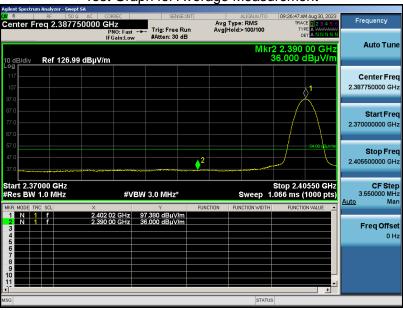
Test result for band edge emission at restricted bands

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

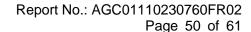
Test Graph for Peak Measurement







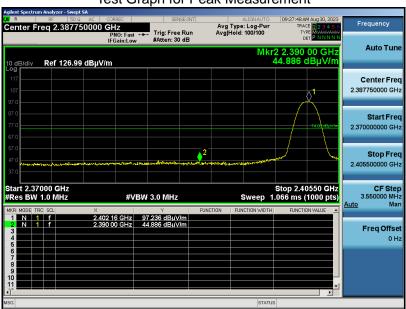
RESULT: PASS



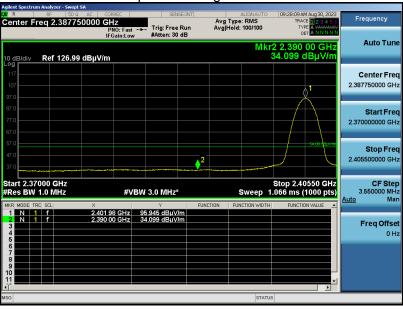


EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

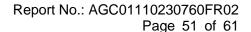
Test Graph for Peak Measurement







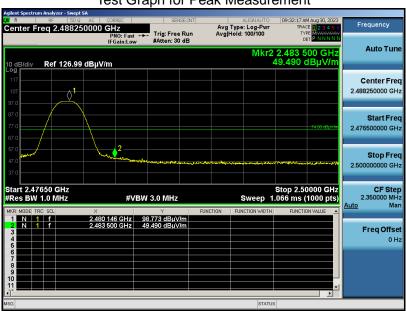
RESULT: PASS



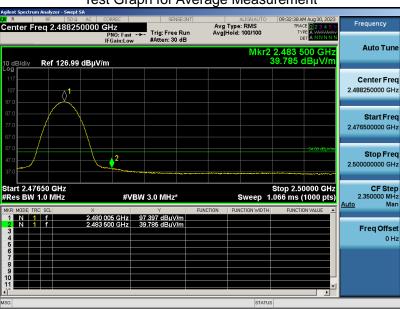


EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

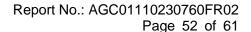
Test Graph for Peak Measurement







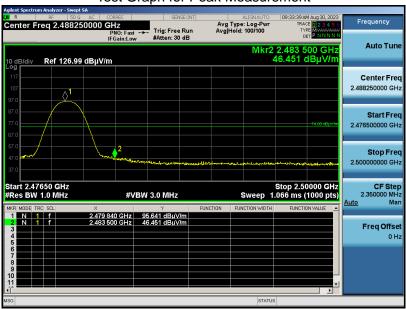
RESULT: PASS



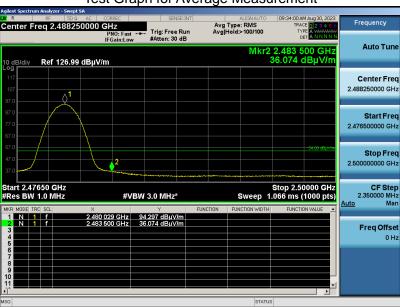


EUT soundcore Motion 300 **Model Name** A3135 25° C **Temperature Relative Humidity** 55.4% 960hPa Normal Voltage **Pressure Test Voltage Test Mode** Mode 3 **Antenna** Vertical

Test Graph for Peak Measurement







RESULT: PASS

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

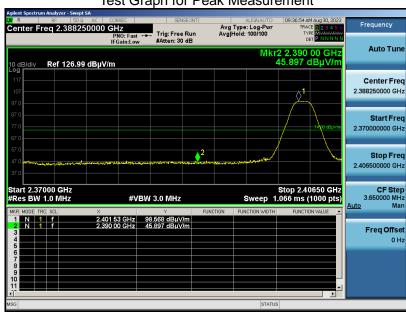


BLE GFSK 2Mbps:

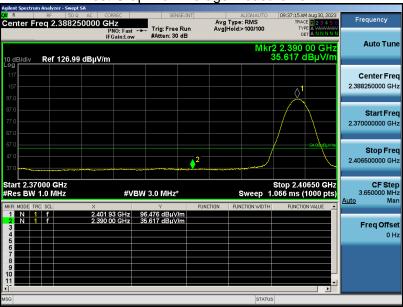
Test result for band edge emission at restricted bands

EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

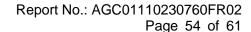
Test Graph for Peak Measurement







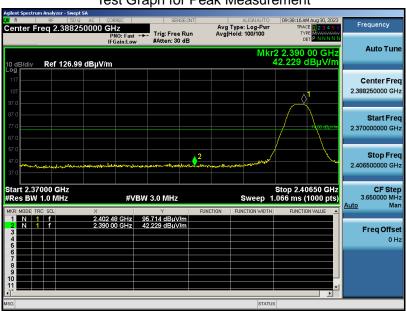
RESULT: PASS



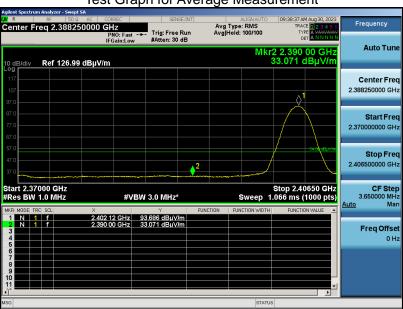


EUT Model Name A3135 soundcore Motion 300 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 4 **Antenna** Vertical

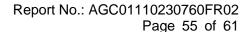
Test Graph for Peak Measurement







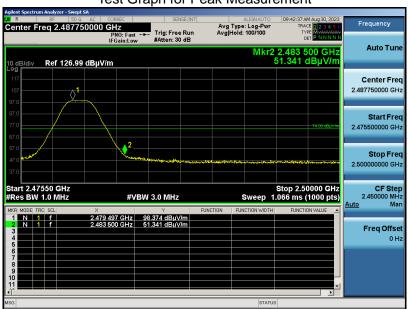
RESULT: PASS

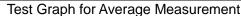


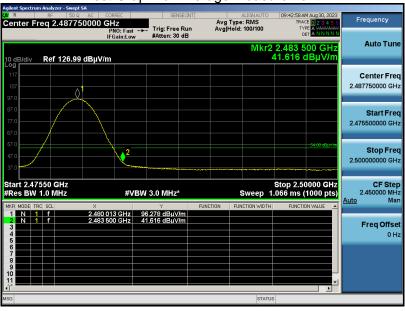


EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

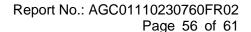
Test Graph for Peak Measurement







RESULT: PASS



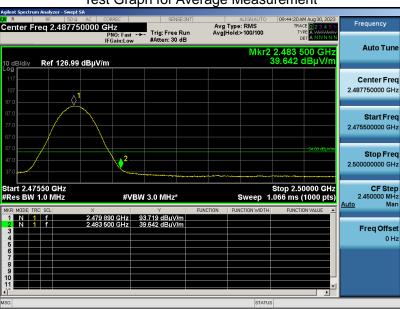


EUT	soundcore Motion 300	Model Name	A3135
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

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. LINE CONDUCTED EMISSION TEST

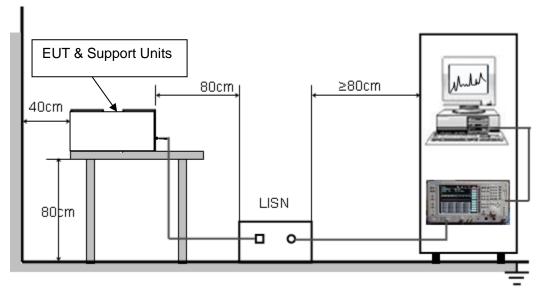
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francisco	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
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. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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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.

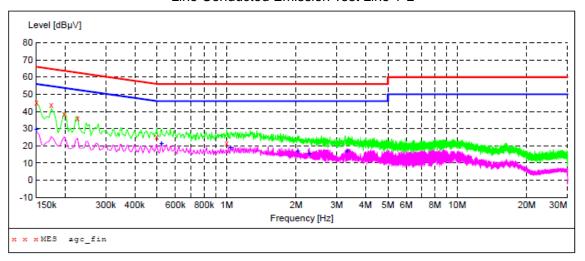
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

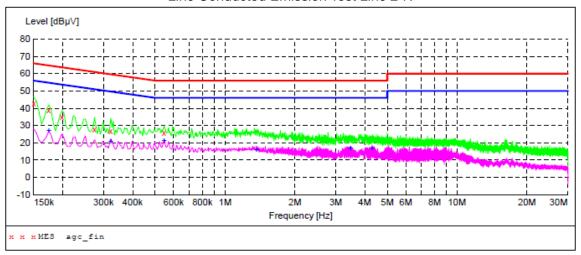
2023/8/2 21:17 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000 0.174000 0.198000 0.226000 0.498000 1.002000	45.30 43.80 38.50 35.90 25.30 21.50	6.1 6.1 6.1 6.1 6.2	66 65 64 63 56 56	20.7 21.0 25.2 26.7 30.7 34.5	QP QP QP QP QP QP	L1 L1 L1 L1 L1

MEASUREMENT RESULT: "agc fin2"

2023/8/2 23	1:17					
Frequency MH:	•	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.15000	0 29.90	6.1	56	26.1	AV	L1
0.52200	0 21.70	6.2	46	24.3	AV	L1
1.04200	0 19.30	6.2	46	26.7	AV	L1
2.03400	0 16.90	6.2	46	29.1	AV	L1
2.28200	0 15.60	6.3	46	30.4	AV	L1
3.32600	0 17.20	6.3	46	28.8	AV	L1



Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2023/8/2 Freque			Transd dB	Limit dBµV	Margin dB	Detector	Line
0.15	0000	42.70	6.1	66		QP	N
0.17	4000	38.70	6.1	65	26.1	QP	N
0.19	8000	35.20	6.1	64		QP	N
0.27	4000	28.00	6.1	61	33.0	QP	N
0.32	2000	26.80	6.1	60	32.9	QP	N
0.54	6000	26.00	6.2	56	30.0	QP	N

MEASUREMENT RESULT: "agc fin2"

-			Transd dB	Limit dBµV	Margin dB	Detector	Line
0.174	000	27.30	6.1	55	27.5	AV	N
0.322	000	21.00	6.1	50	28.7	AV	N
0.546	000	21.60	6.2	46	24.4	AV	N
1.366	000	16.40	6.2	46	29.6	AV	N
3.474	000	17.30	6.3	46	28.7	AV	N
4.294	000	17.00	6.3	46	29.0	AV	N

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110230760AP02

APPENDIX B: PHOTOGRAPHS OF EUT Refer to the Report No.: AGC01110230760AP03

----END OF REPORT----



Conditions of Issuance of Test Reports

- 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").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 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.