

TEST REPORT

Application No.: SUCR2609000877AU

Applicant: Hangzhou Jidian Electronic Technology Co., Ltd.

Address of Applicant: No. 108 Tengfei Road, Daicun Town, Xiaoshan District, Hangzhou, Zhejiang, 311200, China

Manufacturer: Hangzhou Jidian Electronic Technology Co., Ltd.

Address of Manufacturer: No. 108 Tengfei Road, Daicun Town, Xiaoshan District, Hangzhou, Zhejiang, 311200, China

Factory: Aptiv Electronics (Suzhou) Co., Ltd.

Address of Factory: (Excluding Building 22) No. 123, Changyang Street, Industrial Park, Suzhou City, 215126 Jiangsu, P. R. China

Equipment Under Test (EUT):

EUT Name: CONTROLLER CORE SUPER COMPUTER

Model No.: CSC31 PRO

Standard(s) : EN 303 345-1 V1.1.1
EN 303 345-3 V1.1.1
EN 303 345-4 V1.1.1

Date of Receipt: 2026-09-08

Date of Test: 2026-09-08 to 2026-09-09

Date of Issue: 2026-09-09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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Revision Record			
Version	Description	Date	Remark
00	Original	2026-09-09	/

Authorized for issue by:				
Prepared By		Nature Shen		
		Nature Shen / Project Manager		
Approved By		Cedar cheng		
		Cedar Cheng/Reviewer		

2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Sensitivity	EN 303 345-1 V1.1.1 EN 303 345-3 V1.1.1 EN 303 345-4 V1.1.1	EN 303 345-1 V1.1.1 Clause 5.3.4	EN 303 345-3 V1.1.1 Clause 4.2 EN 303 345-4 V1.1.1 Clause 4.2	Pass
Receiver adjacent channel selectivity and blocking		EN 303 345-1 V1.1.1 Clause 5.3.5	EN 303 345-3 V1.1.1 Clause 4.3 EN 303 345-4 V1.1.1 Clause 4.3	Pass
Unwanted emissions in the conducted spurious domain		EN 55032: 2015+A11:2020 +A1:2020	EN 303 345-3 V1.1.1 Clause 4.4 EN 303 345-4 V1.1.1 Clause 4.4	Pass
Radiated Spurious Emissions(30MHz- 1GHz)		EN 55032: 2015+A11:2020 +A1:2020	EN 303 345-3 V1.1.1 Clause 4.4 EN 303 345-4 V1.1.1 Clause 4.4	Pass
Radiated Spurious Emissions(Above 1GHz)		EN 55032: 2015+A11:2020 +A1:2020	EN 303 345-3 V1.1.1 Clause 4.4 EN 303 345-4 V1.1.1 Clause 4.4	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V
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Technology:	FM
Frequency band:	87.5MHz-108MHz
Antenna Type:	External Antenna

Technology:	DAB
Frequency band:	174MHz-240MHz
Antenna Type:	External Antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Unwanted emissions in the spurious domain	$\pm 4.8\text{dB}$
2	Sensitivity	$\pm 4.03\text{dB}$
3	Adjacent Channel Selectivity And Blocking	$\pm 4.03\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS Tongfang Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)
Pilot Free Trade Zone

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS Tongfang Technical Services (Suzhou) Co., Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1312)**

SGS Tongfang Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number: 717327

- **ISED (CAB Identifier: CN0120)**

SGS Tongfang Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Sensitivity & Adjacent Channel Selectivity and Blocking					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2026/01/14	2027/01/13
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2025/05/07	2027/05/06
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2025/11/29	2027/11/28
Vector Signal Generator	ROHDE&SCHWARZ	SWB1V100B	SUWI-01-07-02	2026/01/14	2027/01/13
Vector Signal Generator	ROHDE&SCHWARZ	SMB1V100B	SUWI-01-07-05	2026/01/15	2027/01/14
AUDIO ANALYZER	ROHDE&SCHWARZ	UPV	SUWI-01-54-01	2025/11/21	2027/11/20
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2026/02/11	2027/02/10

Unwanted emissions in the spurious domain					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2026/06/09	2029/06/08
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2026/01/14	2027/01/13
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2025/05/07	2027/05/06
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2026/01/14	2027/01/13
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2026/02/11	2027/02/10
Spectrum Analyzere	Keysighte	N9020A	SUWI-01-02-06	2025/11/20	2026/11/19

6 Radio Spectrum Matter Test Results

6.1 Sensitivity

Test Requirement	EN 303 345-3 V1.1.1 Clause 4.2
	EN 303 345-4 V1.1.1 Clause 4.2
Test Method:	EN 303 345-1 V1.1.1 Clause 5.3.4

Limit:

For FM:

The audio impairment criteria relevant for these tests is that the audio SNR ≥ 40 dBQ ref $\pm 60,8$ kHz deviation, and that there shall be 10 seconds of audio with no subjective impairments.

Table 1: FM configuration

Parameter	FM signals		AM signal
	Wanted	Unwanted	Blocking
Audio modulation	1 kHz tone	Weighted noise Recommendation ITU-R BS.559-2 [3], clause 1, band- limited to 15 kHz (see note 1)	1 kHz tone
Other modulation parameters	$\pm 60,8$ kHz peak deviation	15,9 kHz RMS deviation (see note 2)	80 % depth
Pilot tone	None	None	
NOTE 1: The filter shall have a cut-off frequency of 15 kHz and a minimum roll-off of 60 dB/octave.			
NOTE 2: This is equivalent to a quasi-peak deviation of 34,8 kHz and has pre-emphasis enabled. The quasi-peak level measurement is defined by Recommendation ITU-R BS.641 [i.5], clause 5; with pre-emphasis disabled the quasi-peak deviation is 32 kHz (14,5 kHz RMS).			

Table 2: FM sensitivity requirements

De-modulation	Tuned frequency band	Wanted signal centre frequency (MHz)	Required sensitivity limit	
			Conducted (dBm)	Radiated (dB μ V/m)
FM	VHF band II	98	-90	50 (see note)
NOTE: For products with an integral antenna, the requirement is relaxed to 67 dB μ V/m.				

For DAB:

The audio impairment criterion relevant for these tests is clean audio: that is 10 seconds of audio without impairments.

Table 1: DAB configuration

Parameter	DAB signals		AM signal Blocking
	Wanted	Unwanted	
Audio modulation	Service label: "Sine+" 1 kHz tone at a level of -3 dBFS mono, 128 kbit/s AAC, EEP-3A	Any DAB ensemble without the "Sine+" service	1 kHz tone
Other modulation parameters	DAB signal to ETSI EN 300 401 [2], clause 15	DAB signal to ETSI EN 300 401 [2], clause 15	80 % depth

NOTE: Level is defined in accordance with AES17 [i.5].

Table 2: DAB sensitivity requirements

De-modulation	Tuned frequency band	Wanted signal centre frequency (MHz)	Required sensitivity limit	
			Conducted (dBm)	Radiated (dB _μ V/m)
DAB	VHF band III	202,928	-94	37 (see note)

NOTE: For products with an integral antenna, the requirement is relaxed to 50 dB_μV/m.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

Humidity: 48.5 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	FM mode
Final test	02	DAB mode

6.1.3 Measurement Procedure and Data

- 1) The 'unwanted' signal generator remains switched off for the duration of the test.
- 2) The 'wanted' signal generator is set to the required modulation method and test configuration as specified in clause 4.2.3, and to the frequency specified in clause 4.2.4. The signal level is adjusted to provide the level, as measured at specified in clause 4.2.4 plus 30 dB.
- 3) The receiver is tuned to the frequency of the 'wanted' signal generator. For a receiver without a digital frequency display, the receiver shall be tuned for optimum THD+N (ie. as it would be tuned by a user for best quality). The receiver's audio level shall be set so as to provide clean 1 kHz audio tone at the audio output (that is less than 10 % total harmonic distortion) but of sufficient level to drive the measurement device.
- 4) The level of the 'wanted' signal generator is adjusted to provide the level, as measured at specified in clause 4.2.4.
- 5) The audio output, measured using the measurement device, is recorded as the signal level, S.
- 6) The modulating audio signal for the 'wanted' signal generator is removed. The audio output, measured using the measurement device, is recorded as the noise level, N.
- 7) If the impairment criteria given in clause 4.2.4 are met then the receiver has passed the test.

The above test procedure is just applicable for AM and FM, Steps 5 and 6 are not applicable for DAB and DRM receivers.

Sensitivity

Modulation	Frequency (MHz)	S(dBm)	N(dBm)	SNR(≥ 40 dBQ)	Result
FM	98	-22.48	-67.58	45.10	Pass (Clean Audio) ¹
DAB	202,928	/	/	Clean Audio	Pass (Clean Audio) ²

Remark: 1: Clean audio is defined as 10 seconds of audio with no subjective impairments (e.g. clicks resulting from FM threshold effects).

2: Clean audio is defined as 10 seconds of audio with no subjective impairments (e.g. muting, clicks, warbles or squeaks).

6.2 Adjacent channel selectivity and blocking

Test Requirement EN 303 345-3 V1.1.1 Clause 4.3
EN 303 345-4 V1.1.1 Clause 4.3
Test Method: EN 303 345-1 V1.1.1 Clause 5.3.5

Limit:

For FM:

The audio impairment criteria relevant for these tests is that the audio SNR ≥ 40 dBQ ref $\pm 60,8$ kHz deviation, and that there shall be 10 seconds of audio with no subjective impairments.

Table 3: Channel spacing for adjacent channel selectivity and blocking

Demodulation	Tuned frequency band	Unwanted frequency (N = 2, 3, 4)	Unwanted frequency (blocking)
FM	VHF band II	$\pm N \times 100$ kHz	± 800 kHz

Table 4: Adjacent channel selectivity and blocking requirements

De-modulation (see note 1)	Tuned frequency band	C Wanted signal centre frequency (MHz)	C Wanted signal level		Required I/C ratio (see notes 2 and 3)			
			Conducted (dBm)	Radiated (dB μ V/m)	N = 2 (dB)	N = 3 (dB)	N = 4 (dB)	Blocking (dB)
FM (built-in or integral antenna)	VHF band II	98	n/a	56 (see note 4)	-15	-3	8	20
FM (external antenna)	VHF band II	98	-84	n/a	3	17	30	30

NOTE 1: The ACS and blocking requirements are currently separated into different limits for radiated and conducted testing methods. These limits are likely to be unified in a future revision of the present document. Users of the present document should consult frequently the latest list published in the Official Journal of the European Union.

NOTE 2: The frequency of the interferer shall be calculated using the channel spacing data in table 3 for each of the 6 defined adjacent channels $N = \{-4, -3, -2, +2, +3, +4\}$ and the two blocking offsets. Each row of table 4 thus defines 8 individual tests.

NOTE 3: The minimum level of I for the relevant level of impairment is calculated by adding the I/C ratio to the wanted C level.

NOTE 4: The wanted signal level for receivers with integral antenna is 73 dB μ V/m.

For DAB:

The audio impairment criterion relevant for these tests is clean audio: that is 10 seconds of audio without impairments.

Table 3: Channel spacing for adjacent channel selectivity and blocking

Demodulation	Tuned frequency band	Unwanted frequency (N = 1, 2, 3)	Unwanted frequency (blocking)
DAB	VHF band III	$\pm N \times 1\,712\text{ kHz}$	$\pm 12\text{ MHz}$

Table 4: Adjacent channel selectivity and blocking requirements

De-modulation	Tuned frequency band	C Wanted signal centre frequency (MHz)	C Wanted signal level		Required I/C ratio (see notes 1 and 2)			
			Conducted (dBm)	Radiated (dB _μ V/m)	N = 1 (dB)	N = 2 (dB)	N = 3 (dB)	Blocking (dB)
DAB	VHF band III	202,928	-70	61	35	40	45	40
NOTE 1: The frequency of the interferer shall be calculated using the channel spacing data in table 3 for each of the 6 defined adjacent channels $N = \{-3, -2, -1, +1, +2, +3\}$ and the two blocking offsets. Each row of table 4 thus defines 8 individual tests.								
NOTE 2: The minimum level of I for the relevant level of impairment is calculated by adding the I/C ratio to the wanted C level.								

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

Humidity: 48.5 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	FM mode
Final test	02	DAB mode

6.2.3 Measurement Procedure and Data

1) The 'wanted' signal generator is set to the required modulation method and test configuration as specified in clause 4.2.3, and to the frequency specified in clause 4.2.5. The signal level is adjusted to provide the level, as measured at specified in clause 4.2.5, with the 'unwanted' generator switched off.

2) The 'unwanted' signal generator is set to the required modulation method and test configuration as specified in clause 4.2.3, and to the frequency calculated from the wanted signal centre frequency and the required offset specified in clause 4.2.5. The signal level is adjusted to provide the level, as measured at specified in clause 4.2.5, with the 'wanted' generator switched off. For the blocking test only, the audio modulation of the 'unwanted' signal shall be removed whilst measuring the level

3) The 'wanted' signal generator is switched back on.

4) The receiver is tuned to the frequency of the 'wanted' signal generator. For a receiver without a digital frequency display, the receiver shall be tuned for optimum THD+N (ie. as it would be tuned by a user for best

quality). The receiver's audio level shall be set so as to provide clean 1 kHz audio tone at the audio output (that is less than 10 % total harmonic distortion) but of sufficient level to drive the measurement device.

5) The audio output, measured using the measurement device, is recorded as the signal level.

6) The modulating audio signal for the 'wanted' signal generator is removed. The audio output, measured using the measurement device, is recorded as the noise level, N.

7) If the impairment criteria given in clause 4.2.5 are met then the receiver has passed the test.

The above test procedure is just applicable for AM and FM, Steps 5 and 6 are not applicable for DAB and DRM receivers.

FM mode:

Unwanted Frequency(MHz)	S(dBm)	N(dBm)	SNR	Limit	Result
Adjacent channel and selectivity test					
97.6	-17.94	-63.35	45.41	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
97.7	-18.08	-63.77	45.69	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
97.8	-18.52	-63.80	45.28	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
98.2	-18.35	-63.73	45.38	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
98.3	-18.23	-62.58	44.35	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
98.4	-18.93	-62.88	43.95	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
Blocking test					
97.2	-23.93	-68.97	45.04	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹
98.8	-23.53	-68.41	44.88	$\geq 40\text{dBQ}$	Pass (Clean Audio) ¹

DAB mode:

Unwanted Frequency(MHz)	Limit	Result
Adjacent channel and selectivity test		
197.792	Clean Audio	Pass (Clean Audio) ²
199.504	Clean Audio	Pass (Clean Audio) ²
201.216	Clean Audio	Pass (Clean Audio) ²
204.640	Clean Audio	Pass (Clean Audio) ²
206.352	Clean Audio	Pass (Clean Audio) ²
208.064	Clean Audio	Pass (Clean Audio) ²
Blocking test		
190.928	Clean Audio	Pass (Clean Audio) ²
214.928	Clean Audio	Pass (Clean Audio) ²

Remark: 1: Clean audio is defined as 10 seconds of audio with no subjective impairments (e.g. clicks resulting from FM threshold effects).

2: Clean audio is defined as 10 seconds of audio with no subjective impairments (e.g. muting, clicks, warbles or squeaks).

6.3 Unwanted emissions in the Conducted spurious domain

Test Requirement: EN 303 345-3 V1.1.1 Clause 4.4

EN 303 345-4 V1.1.1 Clause 4.4

Test Method: EN 55032:2015+A1:2020

Limit:

The limits for conducted spurious domain emissions are specified in EN 55032 [4], tables A.13.

Table A.13 – Requirements for conducted differential voltage emissions from Class B equipment

Applicable to						
1. TV broadcast receiver tuner ports (3.1.8) with an accessible connector						
2. RF modulator output ports (3.1.29)						
3. FM broadcast receiver tuner ports (3.1.8) with an accessible connector						
Table clause	Frequency range MHz	Detector type/ bandwidth	Class B limits dB(μV) 75 Ω			Applicability
			Other	Local Oscillator Fundamental	Local Oscillator Harmonics	
A13.1	30 to 950	For frequencies ≤1 GHz	46	46	46	See ^a
	950 to 2 150		46	54	54	
A13.2	950 to 2 150	Quasi Peak/ 120 kHz	46	54	54	See ^b
A13.3	30 to 300		46	54	50	See ^c
	300 to 1 000				52	
A13.4	30 to 300	For frequencies ≥1 GHz	46	66	59	See ^d
	300 to 1 000				52	
A13.5	30 to 950	Peak/ 1 MHz	46	76	46	See ^e
	950 to 2 150			n/a	54	

^a Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers.

^b Tuner units (not the LNB) for satellite signal reception.

^c Frequency modulation audio receivers and PC tuner cards.

^d Frequency modulation car radios.

^e Applicable to EUTs with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports. Limits specified for the LO are for the RF modulator carrier signal and harmonics.

The term 'other' refers to all emissions other than the fundamental and the harmonics of the LO.

The measurement shall cover the entire frequency range.

The EUT shall be tuned in accordance with Table B.3 and clause C.4.2.1.

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C

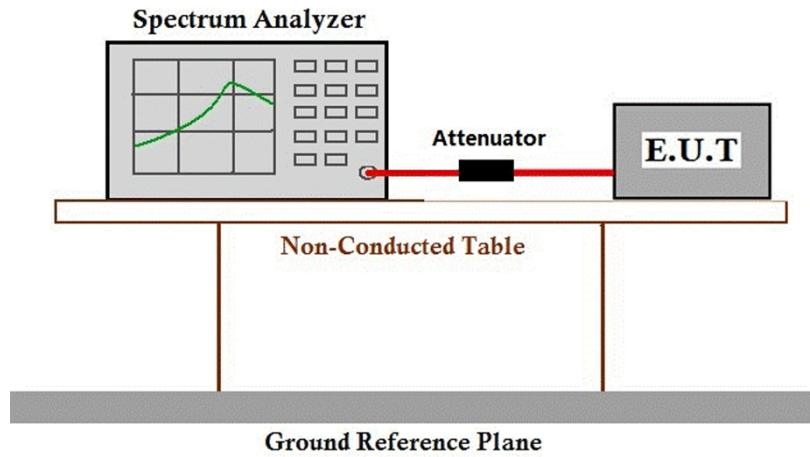
Humidity: 48.5 % RH

Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	FM mode
Final test	02	DAB mode

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Level=Read Level + Cable Loss



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FM mode:
30MHz-1GHz

No.	Frequency	Reading	Cable	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Loos(dB)	(dBuV)	(dBuV)	(dB)	
1	35.34	21.68	0.41	22.09	46.00	-23.91	QP
2	77.77	21.36	0.48	21.84	46.00	-24.16	QP
3	159.01	20.74	0.53	21.27	46.00	-24.73	QP
4	282.93	21.65	0.56	22.21	46.00	-23.79	QP
5	426.97	23.39	0.62	24.01	46.00	-21.99	QP
6	780.54	23.50	0.69	24.19	46.00	-21.81	QP

DAB mode:
30MHz-1GHz

No.	Frequency	Reading	Cable	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Loos(dB)	(dBuV)	(dBuV)	(dB)	
1	35.58	21.02	0.41	21.43	46.00	-24.57	QP
2	88.69	22.22	0.48	22.70	46.00	-23.30	QP
3	159.98	20.70	0.53	21.23	46.00	-24.77	QP
4	240.01	23.09	0.55	23.64	46.00	-22.36	QP
5	508.94	24.18	0.64	24.82	46.00	-21.18	QP
6	867.84	24.07	0.72	24.79	46.00	-21.21	QP



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1GHz-2.15GHz

No.	Frequency (MHz)	Reading (dBuV)	Cable Loos(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2511.25	32.09	1.15	33.24	46.00	-12.76	peak
2	4520.00	32.77	1.48	34.25	46.00	-11.75	peak
3	5513.75	33.53	1.56	35.09	46.00	-10.91	peak

6.4 Radiated Spurious Emissions(30MHz-1GHz)

Test Requirement: EN 303 345-1 V1.1.1
EN 303 345-3 V1.1.1
EN 303 345-4 V1.1.1
Test Method: EN 55032: 2015+A11:2020+A1:2020
Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dB(μ V/m) At 10m	dB(μ V/m) At 3m
30MHz-300MHz	50dB(μ V) Fundamental	60dB(μ V) Fundamental
30MHz-300MHz	42dB(μ V) Harmonics	52dB(μ V) Harmonics
300MHz-1000MHz	50dB(μ V) Fundamental	60dB(μ V) Fundamental
300MHz-1000MHz	46dB(μ V) Harmonics	56dB(μ V) Harmonics
30MHz-230MHz	30dB(μ V) Other	40dB(μ V) Other
230MHz-1000MHz	37dB(μ V) Other	47dB(μ V) Other
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz	
*Decreases with the logarithm of the frequency.		

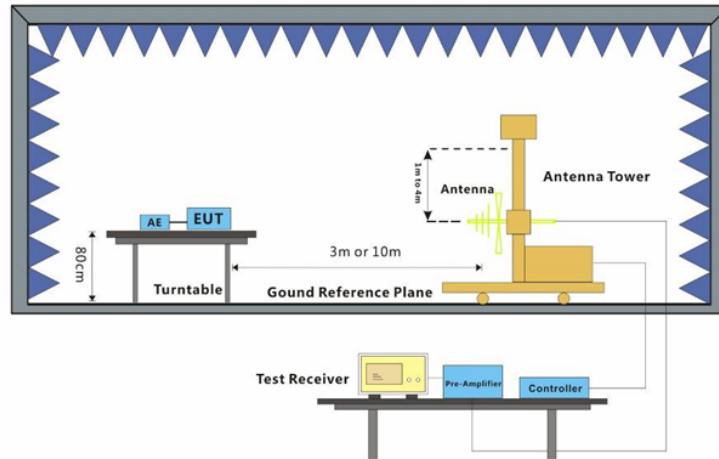
6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 24.5 °C Humidity: 48.2 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	FM mode
Pre-scan	02	DAB mode

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

Remark2: All models have been tested, and the report only reflects the worst data.



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Test Mode: 01; Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.1525	42.88	17.11	-32.50	27.49	40.00	12.51	Horizontal
2	72.4375	48.65	7.79	-32.06	24.38	40.00	15.62	Horizontal
3	156.3425	34.79	10.80	-31.45	14.14	40.00	25.86	Horizontal
4	432.065	29.34	17.54	-30.44	16.44	47.00	30.56	Horizontal
5	767.685	28.71	22.25	-29.50	21.46	47.00	25.54	Horizontal
6	953.925	29.21	22.96	-29.03	23.14	47.00	23.86	Horizontal

Test Mode: 01; Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.6975	41.46	17.99	-32.52	26.93	40.00	13.07	Vertical
2	73.165	48.87	7.93	-32.05	24.75	40.00	15.25	Vertical
3	109.7825	37.28	12.78	-31.78	18.28	40.00	21.72	Vertical
4	406.1175	33.18	16.84	-30.56	19.46	47.00	27.54	Vertical
5	721.125	33.40	21.86	-29.70	25.56	47.00	21.44	Vertical
6	906.88	29.85	23.25	-29.08	24.02	47.00	22.98	Vertical

6.5 Radiated Spurious Emissions(Above 1GHz)

Test Requirement: EN 303 345-1 V1.1.1

EN 303 345-3 V1.1.1

EN 303 345-4 V1.1.1

Test Method: EN 55032: 2015+A11:2020+A1:2020

Measurement Distance: 3m

Limit:

Frequency range(MHz)	Radiated emissions limit(dBμV/m)	
	Peak	Average
1000-6000	74	54
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 6000MHz		

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

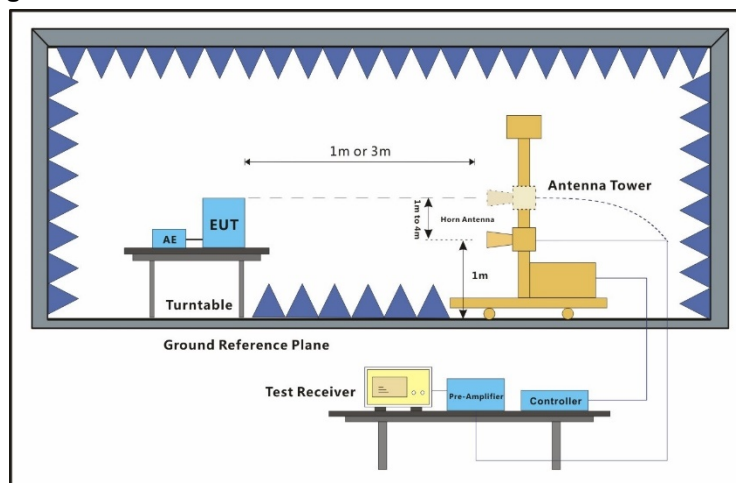
Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	FM mode
Pre-scan	02	DAB mode

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamplifier Factor

Remark2: All models have been tested, and the report only reflects the worst data.



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Test Mode: 01; Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3247.5	62.07	28.10	-52.76	37.41	74.00	36.59	Horizontal
2	4808.75	59.18	31.48	-48.97	41.69	74.00	32.31	Horizontal
3	5953.75	58.36	32.92	-47.89	43.39	74.00	30.61	Horizontal

Test Mode: 01; Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2520	62.54	26.80	-53.23	36.11	74.00	37.89	Vertical
2	3555	60.91	28.67	-51.83	37.75	74.00	36.25	Vertical
3	5996.25	57.91	33.09	-48.09	42.91	74.00	31.09	Vertical



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7 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2605001225AU

- End of the Report -