

TEST REPORT

Eurofins KCTL Co..Ltd.

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea

TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr

Report No.: KR23-SRF0239-B Page(1) of (19)



1. Client

Name

: Samsung Electronics Co., Ltd.

Address

: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,

Rep. of Korea

Date of Receipt : 2023-09-05

2. Use of Report

: Certification

3. Name of Product / Model

: Tablet PC / SM-X300

4. Manufacturer / Country of Origin: Samsung Electronics Co., Ltd. / Vietnam

5. FCC ID

: A3LSMX300

6. Date of Test

: 2023-10-23 to 2023-11-08

7. Location of Test : ■ Permanent Testing Lab □ On Site Testing

(Address:65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

8. Test method used: FCC Part 15 Subpart C, 15.247

9. Test Result

: Refer to the test result in the test report

Tested by

Technical Manager

Affirmation

Name: Sunghyun Yoon (Six

Name: Seungyong Kim

2023-12-01

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guara ntee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co., Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2023-11-14	Originally issued	-
2023-11-24	Updated	7
2023-12-01	Updated	7

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Note. The report No. KR23-SRF0239-A is superseded by the report No. KR23-SRF0239-B.

General remarks for test reports	
Statement concerning the uncertainty of the measurement systems used for the tests	
(may be required by the product standard or client)	
Internal procedure used for type testing through which traceability of the measurir has been established:	ng uncertainty
Procedure number, issue date and title: Calculations leading to the reported values are on file with the testing laboratory that conducted the testing laboratory that the testing laboratory that conducted the testing laboratory that laboratory the laboratory the laboratory than laboratory the laboratory that laboratory the laboratory the laboratory than laboratory the laboratory that laboratory the laboratory than laboratory the laboratory that lab	sting.
Statement not required by the standard or client used for type testing	

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1. General information

Client : Samsung Electronics Co., Ltd.

Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Manufacturer : Samsung Electronics Co., Ltd.

Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Factory : Samsung Electronics Vietnam Thai Nguyen Co., Ltd

Address : Yen Binh Industrial Park, Dong Tien Ward, Pho Yen Town, Thai Nguyen Province,

Vietnam

Laboratory : Eurofins KCTL Co.,Ltd.

Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132

VCCI Registration No.: R-20080, G-20078, C-20059, T-20056

CAB Identifier: KR0040 ISED Number: 8035A KOLAS No.: KT231

2. Device information

Equipment under test : Tablet PC Model : SM-X300

Modulation technique : Bluetooth(BDR/EDR) : GFSK, $\pi/4$ DQPSK, 8DPSK

Number of channels : 79 ch

Power source : DC 3.85 V

Antenna specification : Antenna 1 : LDS Antenna

Antenna gain : -4.00 dBi

Frequency range : 2 402 Mb ~ 2 480 Mb (BDR/EDR)

Software version : X300.001 Hardware version : REV1.0

Test device serial No. : Conducted : R32W9001LQT

Radiated: R32W9001L0M

Operation temperature : 0 $^{\circ}$ C \sim 35 $^{\circ}$ C

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2.1. Frequency/channel operations

This device contains the following capabilities: WLAN (11a/b/g/n/ac/ax), Bluetooth (BDR/EDR/BLE), NFC, Digitizer

Ch.	Frequency (Mb)
00	2 402
·	
39	2 441
·	
78	2 480

Table 2.1-1. Bluetooth(BDR/EDR) mode

15.247 Requirements for Bluetooth transmitter:

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - 1) This system is hopping pseudo-randomly.
 - 2) Each frequency is used equally on the average by each transmitter.
 - 3) The receiver input bandwidths that match the hopping channel bandwidths of their corresponding transmitters
 - 4) The receiver shifts frequencies in synchronization with the transmitted signals.
- 15.247(g): The system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this Section 15.247 should the transmitter be presented with a continuous data (or information) stream.
- 15.247(h): The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

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Antenna requirement

Requirement of FCC part section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The transmitter has permanently attached LDS Antenna (Internal antenna) on board.
- The EUT Complies with the requirement of §15.203, §15.247.



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4. Introduction

This report referenced from the FCC ID: A3LSMX306B

Based on their similarity, the FCC Part 15C (equipment class: DSS) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v02r01.

And the applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID.

4.1 Difference

The FCC ID: A3LSMX300 share the same enclosure and circuit board as FCC ID: A3LSMX306B. The WIFI/BT/BLE antenna and surrounding circuitry and layout are identical between these two units.

As for all bands, they have been verified and the parent model test results under FCC ID: A3LSMX306B shall remain representative of FCC ID: A3LSMX300.

Note. The difference between the parent and variant is that the RF circuit for GSM/WCDMA/LTE/NR bands in the parent model SM-X306B is removed from the variant model SM-X300.

4.2 Spot check verification data (Band-edge & Spurious emission)

Test band	Test item	Channel		Measured frequency	Measured frequency SM-X306B (dBμV)		SM-X300 (dBµV)		Deviation (dB)		Deviation (%)	
bana	Item	mode		(MHz)	Avg	Peak	Avg	Peak	Avg	Peak	Avg	Peak
	Band edge	DH-1	78	2 483.5 ~ 2 500	34.29	58.42	34.38	57.92	0.09	-0.50	1.04	-5.59
DT	RSE	DH-1	0	7 228.43	-	46.53	-	44.37	-	-2.16	-	-22.02
ВТ	Band edge	3DH-1	78	2 483.5 ~ 2 500	37.26	55.82	36.88	56.52	-0.38	0.70	-4.28	8.39
	RSE	3⊔⊓-1	78	7 374.40	-	46.32	-	44.92	-	-1.40	-	-14.89

Notes:

- FCC ID: A3LSMX300 have been verified the performance as for Bluetooth identical with the FCC ID: A3LSMX306B.
- 2. Comparison of two models, the variant model emissions do not exceed the parent model emissions by more than 25% in linear units and all measurements are below FCC technical limits. Deviation (%) = |Spot check data − Reference data| / |Reference data| ≤ 0.25 (25 %)
- 3. Data reuse is based on KDB 484596 D01 v02r01 and has been approved via FCC KDB inquiry.

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4.3 Reference Detail

Reference application that contains the reused reference data in the individual test reports.

Equipment	Reference	Application	Reference Test	Exhibit	Variant Test	Data
Class	FCC ID	Туре	report Number	Type	Report Number	Re-used
			KR23-SRF0224	Test	KR23-SRF0241	All
			(802.11b/g/n)	report	KN23-3KF0241	All
DTS	A3LSMX306B	Original	KR23-SRF0226	Test	KR23-SRF0243	All
סוט	ASLSIVIASUUD	SLSIVIA300B Original	(802.11ax)	report	NR23-3RFU243	ΔII
			KR23-SRF0223	Test	KR23-SRF0240	All
			(Bluetooth LE)	report	MN23-3111 0240	ΛII
DSS	A3LSMX306B	Original	KR23-SRF0222	Test	KR23-SRF0239	All
DSS	ASLSIVIASUUD	Original	(Bluetooth)	report	KKZ3-SKFUZ39	All
			KR23-SRF0225	Test	KR23-SRF0242	All
NII	A3LSMX306B	B Original	(802.11a/n/ac)	report	NN20-ORFU242	All
INII			KR23-SRF0227	Test	ND33 SDE0344	ΔII
			(802.11ax)	report	KR23-SRF0244	All



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Summary of tests

FCC Part section(s)	Parameter	Test Condition	Test results
15.205(a),	Spurious emission	Dadiated	Pass
15.209(a)	Band-edge, restricted band	Radiated	Pass

Notes:

- 1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2. According to exploratory test no any obvious emission were detected from 9 klb to 30 Mlb. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- 3. EUT was investigated in three orthogonal orientations X, Y and Z. it was determined that **Z** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **Z** orientation.
- 4. All configurations have been performed (Stand-alone, Stand-alone with TA, With accessories). Worst case: Stand-alone
- 5. The maximum production power and tolerance are not impacted by the change. So only spotcheck test was done against the worst case from the original model.
- 6. The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2013
 - KDB 558074 D01 v05r02
- 7. The worst-case data rate were: BDR Packet type DH-1 EDR Packet type 3DH-1

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Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of k=2 to indicated a 95 % level of confidence. The measurement data shown herein meets of exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (\pm)		
Radiated spurious emissions	1 000 MHz ~ 18 000 MHz	4.7 dB	



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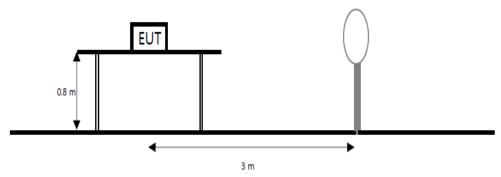


7 Test results

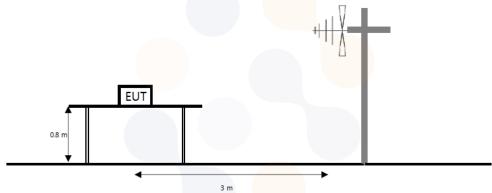
7.1. Radiated spurious emissions & band edge

Test setup

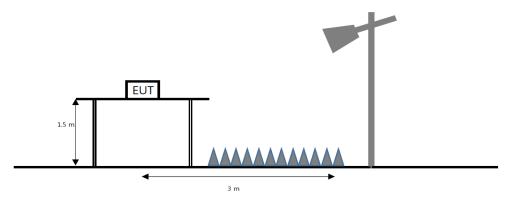
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 Mb to 1 Gb emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 $\mbox{ }$ to the tenth harmonic of the highest fundamental frequency or to 40 $\mbox{ }$ emissions, whichever is lower.



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Limit

According to section 15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (胚)	Field strength (μ̄V/m)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

^{**}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 Mb, 76–88 Mb, 174–216 Mb or 470–806 Mb. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section15.231 and 15.241.

According to section 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399 <mark>.9 - 410</mark>	4.5 - 5.15
0.495 - 0.505	16.694 75 - 1 6.695 2 5	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 <mark>– 1 240</mark>	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 – 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 – 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 – 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 – 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 – 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 – 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525	2 483.5 – 2 500	17.7 - 21.4
8.376 25 - 8.386 75	25	2 690 – 2 900	22.01 - 23.12
8.414 25 - 8.414 75	156.7 - 156.9	3 260 – 3 267	23.6 - 24.0
12.29 - 12.293	162.012 5 - 167.17	3 332 – 3 339	31.2 - 31.8
12.519 75 - 12.520 25	167.72 - 173.2	3 345.8 – 3 358	36.43 - 36.5
12.576 75 - 12.577 25	240 - 285	3 600 – 4 400	Above 38.6
13.36 - 13.41	322 - 335.4		

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 Mb, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1 000 Mb, compliance with the emission limits in section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in section 15.35 apply to these measurements.

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Test procedure

ANSI C63.10-2013

Test settings

Peak field strength measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in table
- 3. VBW ≥ (3×RBW)
- 4. Detector = peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Allow sweeps to continue until the trace stabilizes

Table. RBW as a function of frequency

Frequency	RBW	
9 kHz to 150 kHz	200 Hz to 300 Hz	
0.15 Mb to 30 Mb	9 kHz to 10 kHz	
30 Mb to 1 000 Mb	100 kHz to 120 kHz	
> 1 000 MHz	1 MHz	

Average field strength measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1 Mbz
- 3. VBW = 1/T ≥ 1 Hz
- 4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
- 5. Detector = peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Trace was allowed to run for at least 50 times(1/duty cycle) traces

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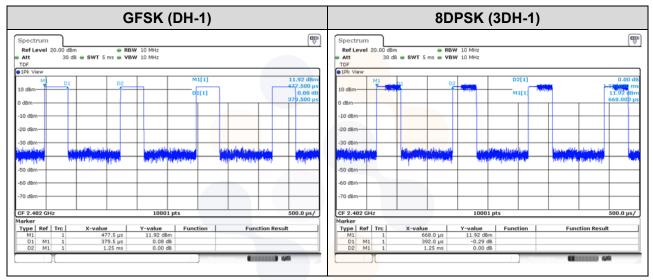


Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 № for Peak detection and frequency above 1 №. The resolution bandwidth of test receiver/spectrum analyzer is 1 № and the video bandwidth is 3 №(≥1/T) for Average detection (AV) at frequency above 1 №.

According to ANSI C63.10-2013, for average measurement during radiation test, Reduced VBW shall be greater than [1/(minimum transmitter on time)] and no less than 1 Hz.

Test mode	Period (ms)	On time (ms)	Reduced VBW (Hz)
GFSK	1.250 0	0.379 5	2 635.046
8DPSK	1.250 0	0.392 0	2 551.020



2. f < 30 Mb, extrapolation factor of 40 dB/decade of distance. F_d = 40log(D_m/Ds) f ≥ 30 Mb, extrapolation factor of 20 dB/decade of distance. F_d = 20log(D_m/Ds) Where:

F_d= Distance factor in dB

D_m= Measurement distance in meters

D_s= Specification distance in meters

- 3. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or F_d(dB)
- 4. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
- 5. Average test would be performed if the peak result were greater than the average limit.
- 6. 1) means restricted band.
- 7. Above 1 @ the worst results between two antenna polarizations (H and V) were documented in the test report.
- 8. Below 30 Mb frequency range, In order to search for the worst result, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported. when the emission level was higher than 20 dB of the limit, then the following statement shall be made: "No spurious emissions were detected within 20 dB of the limit."

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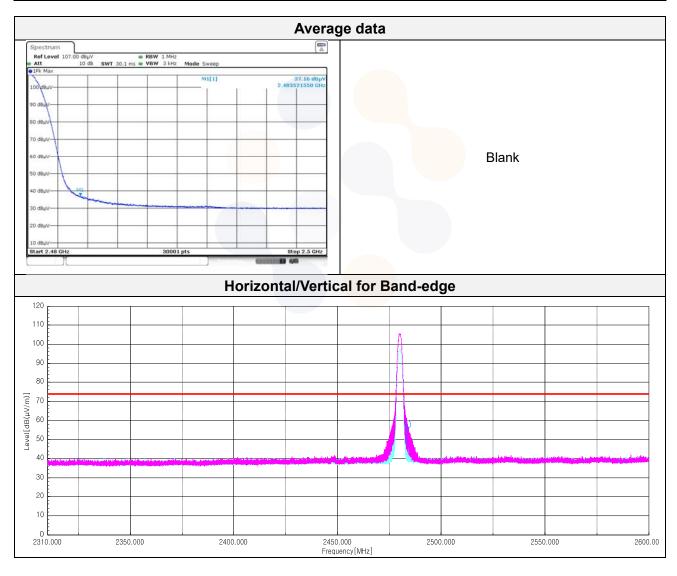


Spot-check Test results

GFSK / Band-edge

Highest Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/ m))	(dB)
Peak data								
2 483.521)	Н	60.70	27.70	-30.48	-	57.92	74.00	16.08
Average Data								
2 483.52 ¹⁾	Н	37.16	27.70	-30.48	-	34.38	54.00	19.62



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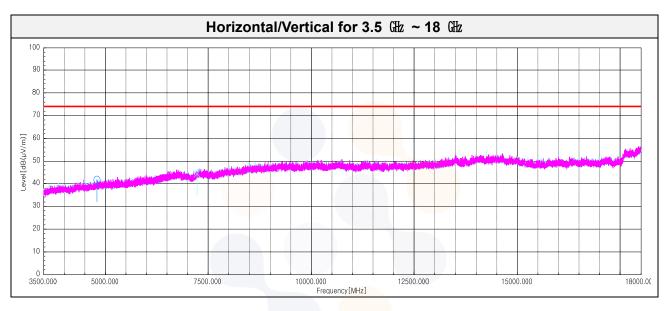
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GFSK / Harmonic

Lowest Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/ m))	(dB(μV/m))	(dB)
Peak data								
7 225.53	V	51.50	37.15	-44.28	-	44.37	74.00	29.63
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



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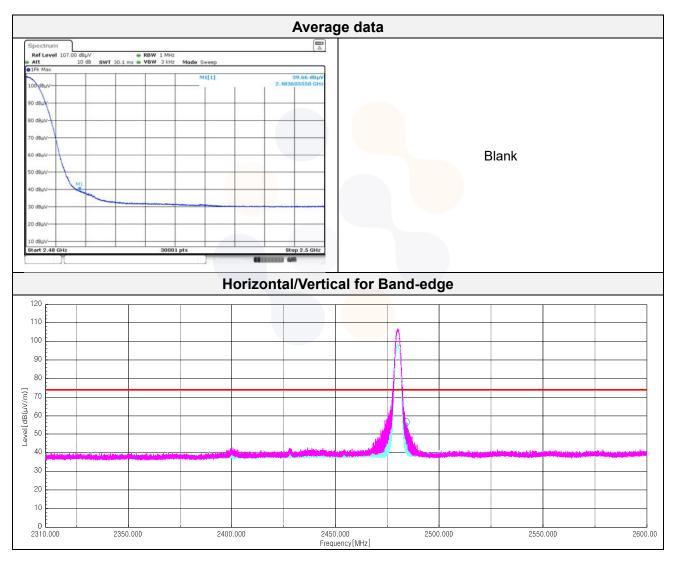
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8DPSK / Band-edge

Highest Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/ m))	(dB(μV/ m))	(dB)
Peak data								
2 483.61 ¹⁾	Н	59.30	27.70	-30.48	-	56.52	74.00	17.48
Average Data								
2 483.611)	Н	39.66	27.70	-30.48	-	36.88	54.00	17.12



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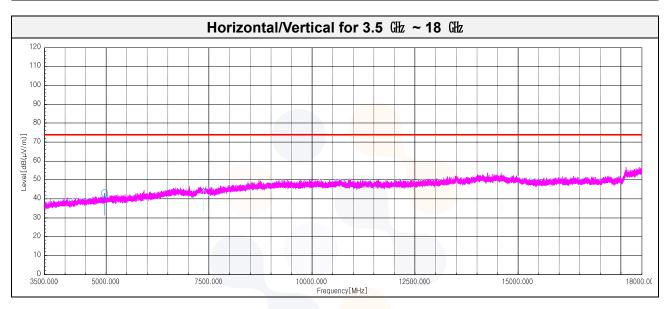
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8DPSK / Harmonic

Highest Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
7 373.43 ¹⁾	V	52.00	36.95	-44.03	-	44.92	74.00	29.08
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



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8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date	
Signal Generator	R&S	SMB100A	176206	24.01.19	
Vector Signal Generator	R&S	SMBV100A	257566	24.07.04	
Spectrum Analyzer	R&S	FSVA40	101575	24.06.19	
Bluetooth Tester	TESCOM	TC-3000B	3000B640056	24.01.19	
Broadband PreAmplifier	SCHWARZBECK	BBV9718D	57	24.03.17	
Low Noise Amplifier	TESTEK	TK-PA18H	220124-L	24.10.12	
Horn Antenna	SCHWARZBECK	BBHA9120D	2763	24.10.18	
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000- 18000-40SS	SN58	24.10.16	
Controller	INNCO SYSTEMS	CO3000	1441/54370322/P	-	
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	-	-	
Turn Device	INNCO SYSTEMS	DS1200-S-1t	-	-	

End of test report