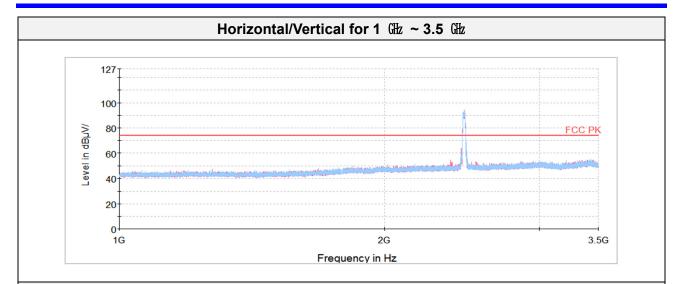
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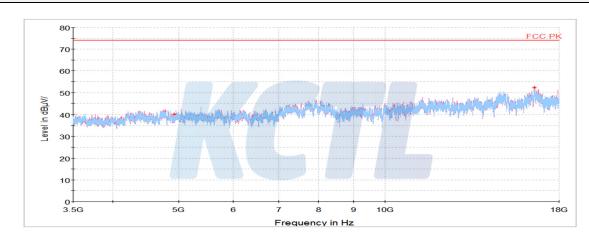
Report No.: KR20-SRF0127-B

Page (62) of (76)

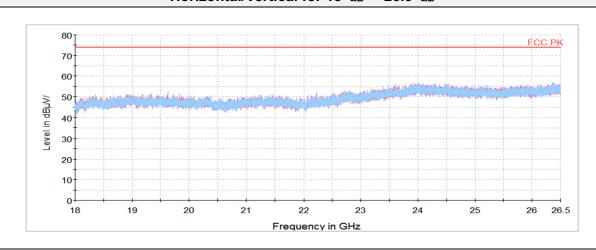








Horizontal/Vertical for 18 @ ~ 26.5 @ 1



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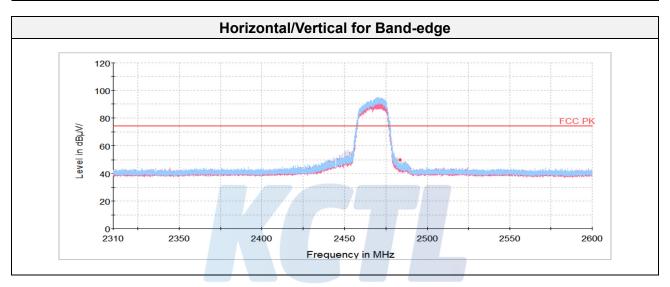
Report No.: KR20-SRF0127-B

Page (63) of (76)



2 467 Mb

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/ m))	(dB(μV/m))	(dB)
	Peak data							
2 483.60 ¹⁾	Н	46.82	32.07	-29.21	-	49.68	74.00	24.32
4 942.30 ¹⁾	Н	63.22	33.98	-54.98	-	42.22	74.00	31.78
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



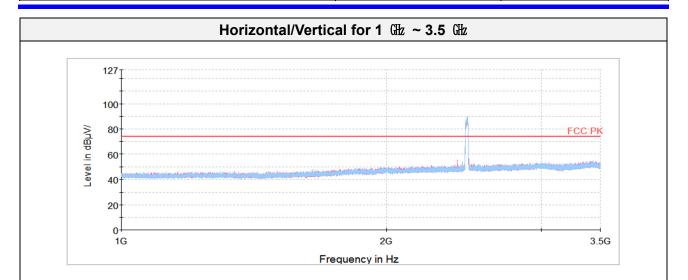
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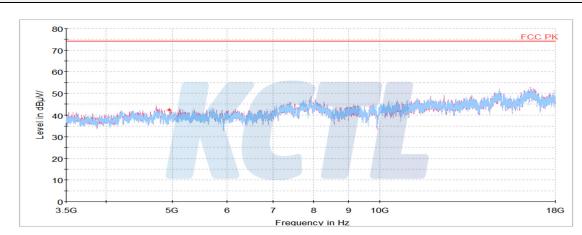
Report No.: KR20-SRF0127-B

Page (64) of (76)

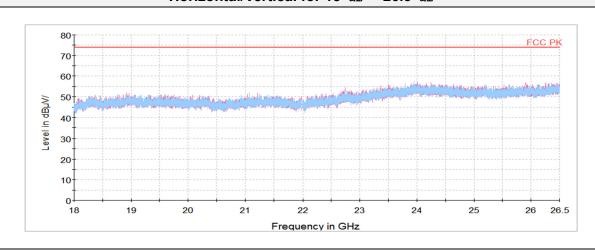








Horizontal/Vertical for 18 础 ~ 26.5 础



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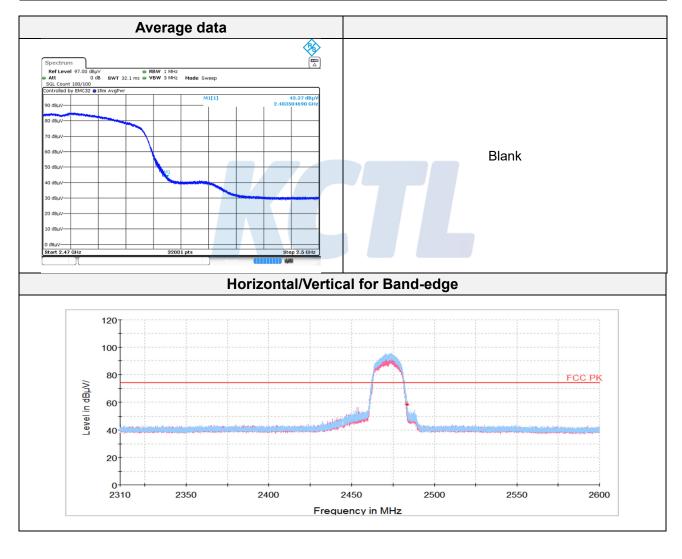
Report No.: KR20-SRF0127-B

Page (65) of (76)



2 472 账

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/ m))	(dB(μV/ m))	(dB)
	Peak data							
2 483.50 ¹⁾	Н	55.45	32.07	-29.21	-	58.31	74.00	15.69
4 943.66 ¹⁾	V	61.15	33.98	-54.96	-	40.17	74.00	33.83
16 545.47	V	57.10	41.55	-45.66	-	52.99	74.00	21.01
Average Data								
2 483.50 ¹⁾	Н	43.37	32.07	-29.21	0.35	46.58	54.00	7.42



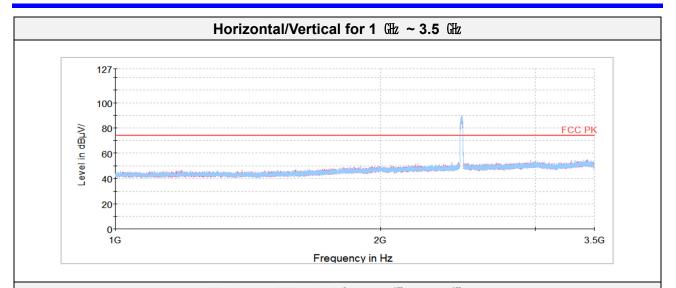
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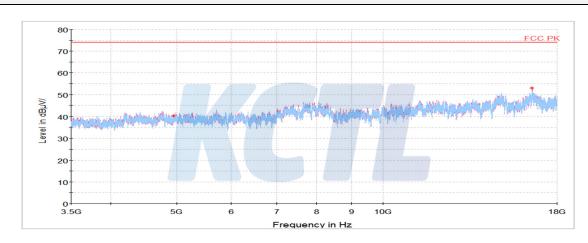
Report No.: KR20-SRF0127-B

Page (66) of (76)

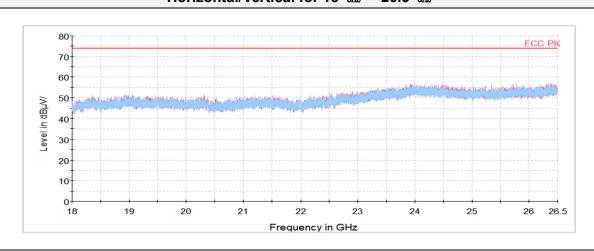








Horizontal/Vertical for 18 ∰ ~ 26.5 ∰



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Report No.: KR20-SRF0127-B

Page (67) of (76)



7.5. Conducted Spurious Emission

<u>Test setup</u>	_		_	
EUT		Attenuator		Spectrum analyzer

<u>Limit</u>

According to §15.247(d) and RSS-247(5.5), In any 100 $\,\mathrm{klz}$ bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 $\,\mathrm{dB}$ below that in the 100 $\,\mathrm{klz}$ bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit: 20 dBc

Test procedure

ANSI C63.10-2013 - Section 11.11.3 KDB 558074 D01 v05 - Section 8.5 KDB 662911 D01 v02r01 - section (E)(3)(b)

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW \geq [3 x RBW]
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

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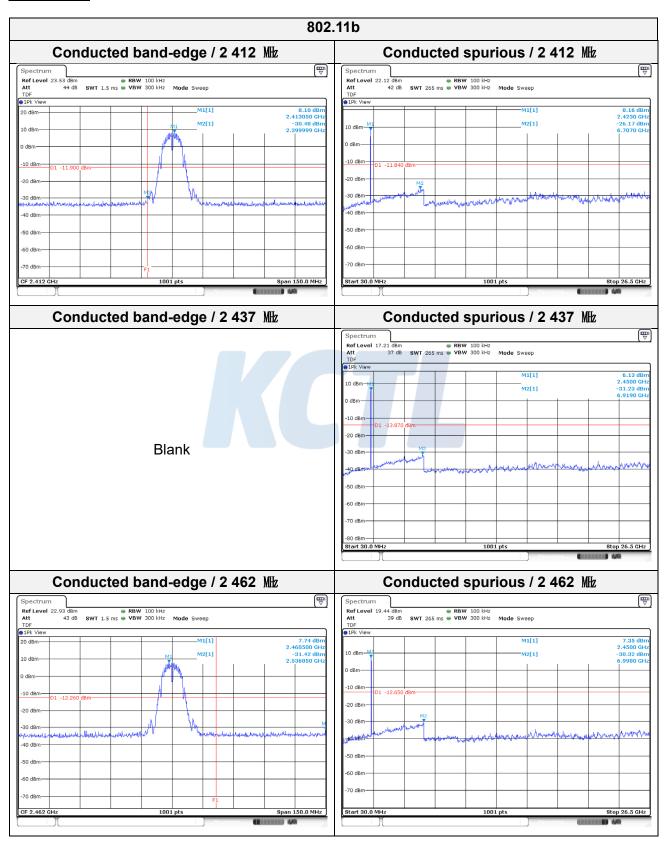
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Report No.: KR20-SRF0127-B

Page (68) of (76)



Test results



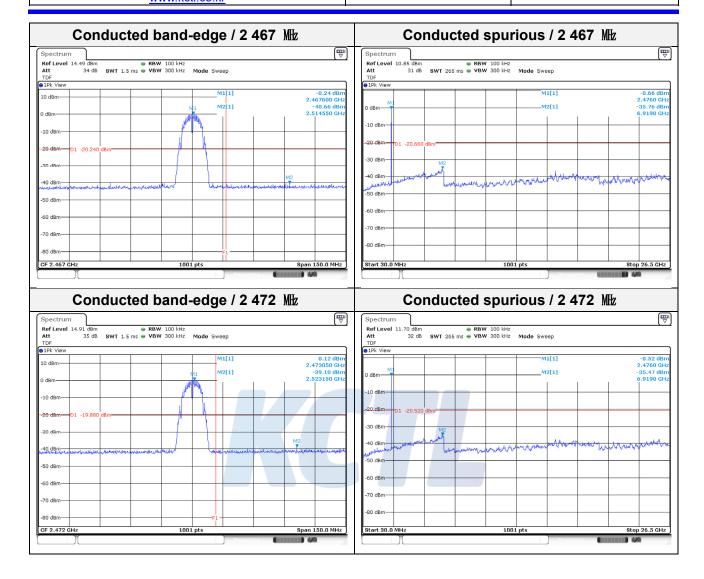
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www.kctl.co.kr

Report No.: KR20-SRF0127-B

Page (69) of (76)





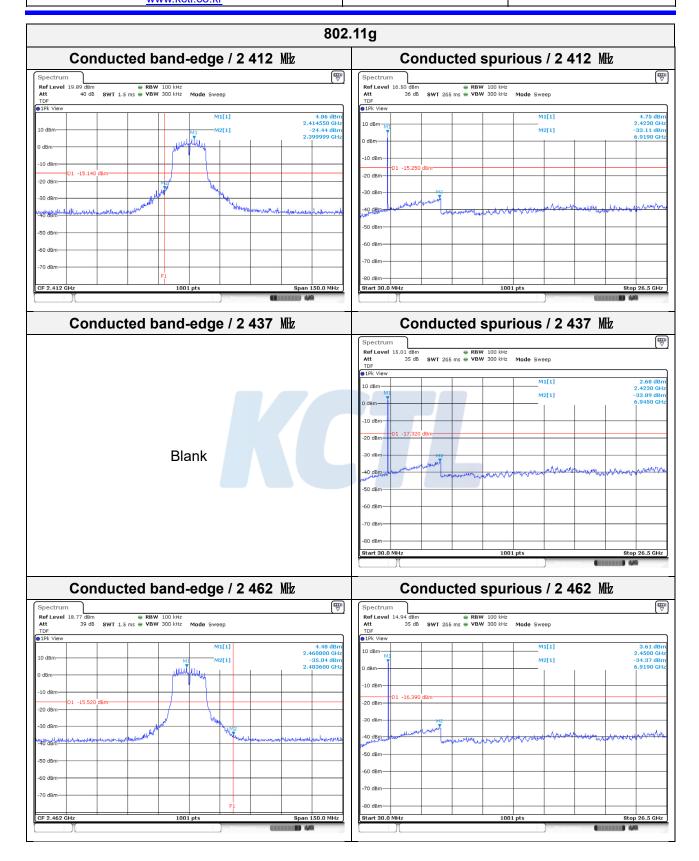
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Report No.: KR20-SRF0127-B

Page (70) of (76)





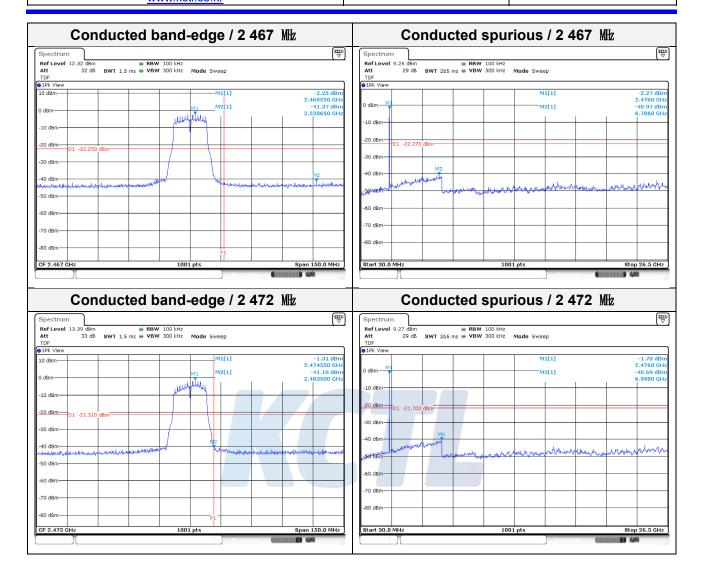
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Report No.: KR20-SRF0127-B

Page (71) of (76)





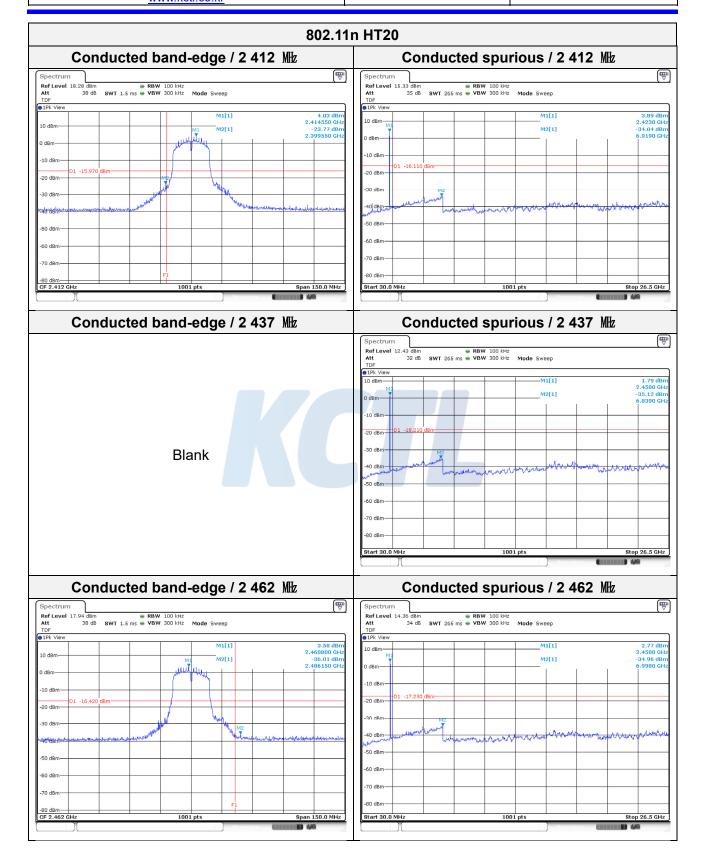
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Report No.: KR20-SRF0127-B

Page (72) of (76)





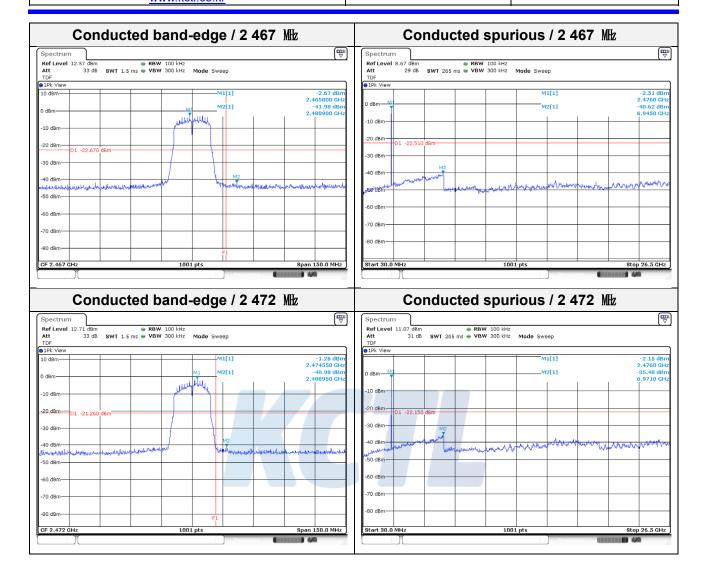
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Report No.: KR20-SRF0127-B

Page (73) of (76)





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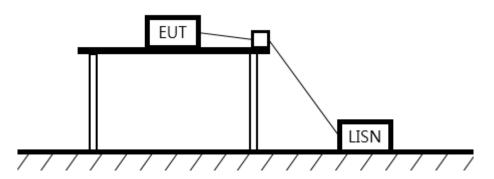
Report No.: KR20-SRF0127-B

Page (74) of (76)



7.6. AC Conducted emission

Test setup



Limit

According to 15.207(a) and RSS-Gen(8.8) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 kHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Fraguency of Emission (Mk)	Conducted limit (dBµV/m)			
Frequency of Emission (舱)	Quasi-peak	Average		
0.15 – 0.50	66 - 56*	56 - 46*		
0.50 - 5.00	56	46		
5.00 – 30.0	60	50		

Measurement procedure

- 1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
- 2. Each current-carrying conductor of the EUT power cord was individually connected through a $50\Omega/50\mu H$ LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
- 3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
- 4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
- 5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 klb or to quasi-peak and average within a bandwidth of 9 klb. The EUT was in transmitting mode during the measurements.

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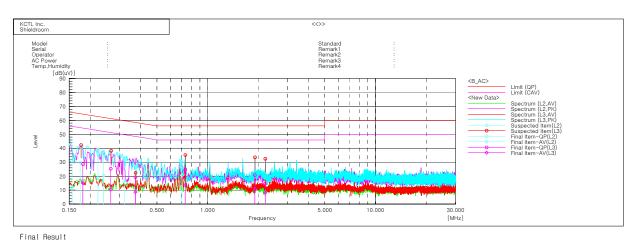
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Report No.: KR20-SRF0127-B

Page (75) of (76)



Test results - Worst case: : 802.11 g mode/ 2 462 №



- L2 Phase --. Frequency Reading CAV [dB(uV)] 2.0 7.0 8.8 10.7 6.6 10.5 Limit QP [dB(uV)] 65.7 64.7 62.7 62.1 59.7 56.0 Margin QP [dB] 34.4 34.9 25.9 25.6 27.6 29.2 Margin CAV [dB] 43.5 37.4 33.9 31.5 33.1 25.3 Reading QP Result OP Result CAV Limit AV QP [dB(uV)] 21.1 19.5 26.8 26.6 22.1 16.6 [dB] 10.2 10.3 10.0 9.9 10.0 10.2 QP [dB(uV)] 31.3 29.8 36.8 36.5 32.1 26.8 CAV [dB(uV)] 12.2 17.3 18.8 20.6 16.6 20.7 AV [dB(uV)] 55.7 54.7 52.7 52.1 49.7 46.0 [MHz] [MHz] 0.15602 0.17459 0.22281 0.24082 0.31938 0.70198 - L3 Phase Reading CAV [dB(uV)] 4.7 0.5 -1.6 3.4 0.8 -2.2 Result CAV [dB(uV)] 15.0 10.4 8.5 13.6 11.1 8.1 Limit AV [dB(uV)] 54.5 51.3 48.5 46.0 46.0 Margin CAV [dB] 39.5 40.9 40.0 32.4 34.9 37.9 Frequency Reading QP Result OP [MHz] 0.18076 0.26535 0.37223 0.73583 1.91184 2.20874 QP [dB(uV)] 18.4 15.5 9.2 14.6 10.5 4.3 [dB] 10.3 9.9 10.1 10.2 10.3 10.3 QP [dB(uV)] 28.7 25.4 19.3 24.8 20.8 14.6 QP [dB(uV)] 64.5 61.3 58.5 56.0 56.0 56.0

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Report No.: KR20-SRF0127-B

Page (76) of (76)



8. Measurement equipment

or moderation	one oquipinone			
Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV40	100988	21.01.03
Spectrum Analyzer	R&S	FSV30	100806	20.07.30
EMI TEST RECEIVER	R&S	ESCI7	100732	20.08.22
Pulse Power Sensor	ANRITSU	MA2411B	1726174	20.07.31
Pulse Power Meter	ANRITSU	ML2495A	1608009	20.07.31
DC Power Supply	AGILENT	E3632A	MY51220373	20.07.30
Bi-Log Antenna	TESEQ	CBL 6112D	37876	20.07.20
Amplifier	SONOMA INSTRUMENT	310N	284608	20.08.22
COAXIAL FIXED ATTENUATOR	Agilent	8491B-003	2708A18758	22.04.23
Directional Bridge	AGILENT	86205A	MY31400127	21.01.21
Horn antenna	ETS.lindgren	3117	155787	20.10.24
Horn antenna	ETS.lindgren	3116	00086632	21.02.17
Attenuator	API Inmet	40AH2W-10	10	20.08.01
Broadband PreAmplifier	SCHWARZBECK	BBV9718	216	20.07.30
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800 -22-10P	2031196	21.02.12
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33-8P	2000996	21.01.22
LOOP Antenna	R&S	HFH2-Z2	100355	20.08.24
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	DT2000	79	-
Antenna Mast	Antenna Mast Innco Systems		303	-
Turn Table	urn Table Innco Systems		79	-
Highpass Filter	WT	WT-A1698-HS	WT160411001	21.05.11*
TWO-LINE V - NETWORK	R&S	ENV216	101358	20.10.02
EMI TEST RECEIVER R&S		ESCI	100001	20.08.22
Vector Signal R&S Generator		SMBV100A	257566	20.07.16
Signal Generator	R&S	SMR40	100007	21.04.08

^{*}The equipment was used after finished calibration.

End of test report