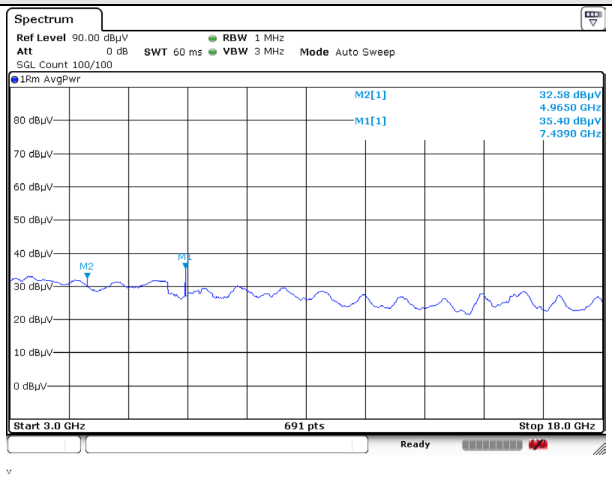
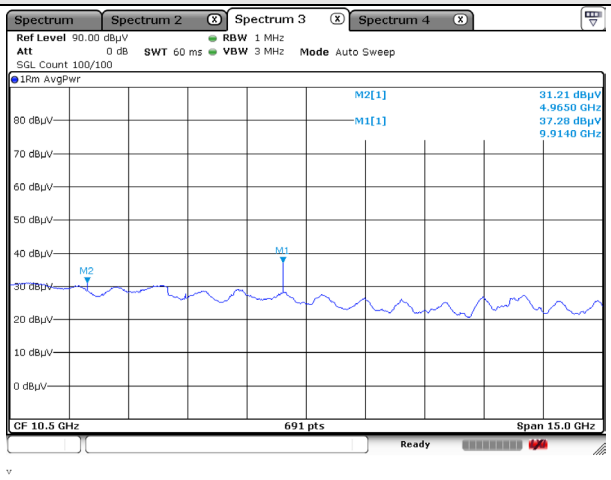
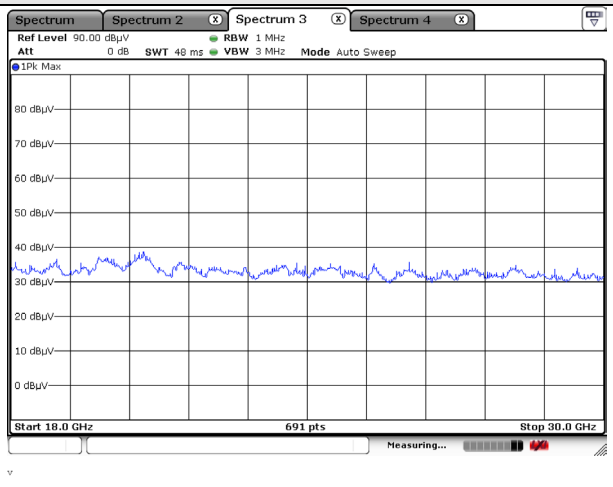
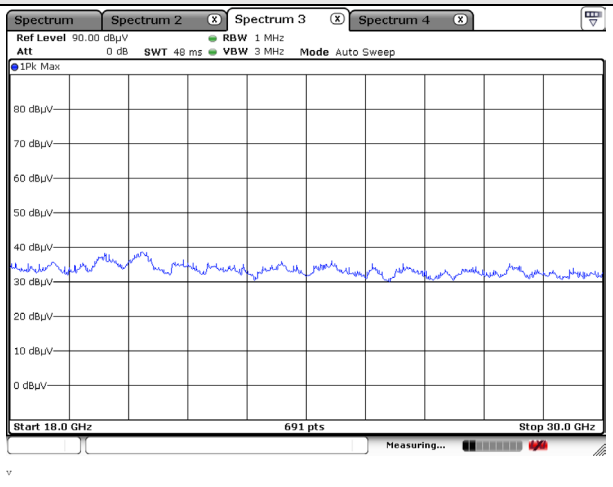
Horizontal // Average for 3 ㎓ to 18 ㎓	Vertical // Average for 3 ㎓ to 18 ㎓
	

Note.
1. Average test would be performed if the peak result were greater than the average limit.

Test results (18 ㎓ to 30 ㎓) – Worst case

Mode:	LE 1 Mbps
Distance of measurement:	3 meter
Channel:	39 (Worst case)

Horizontal Peak	Vertical Peak
	

Note.
No spurious emission were detected above 18 ㎓.

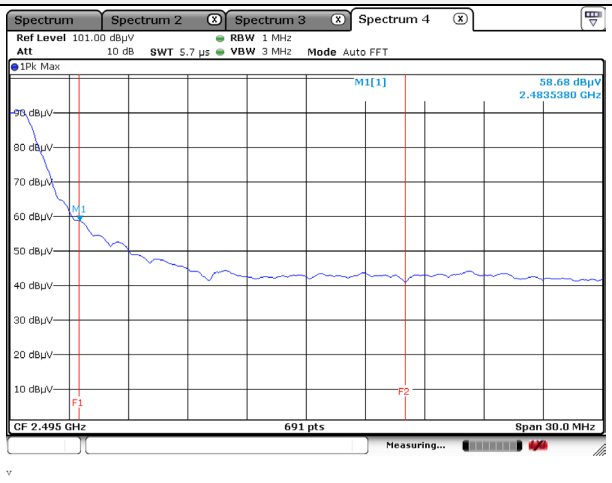
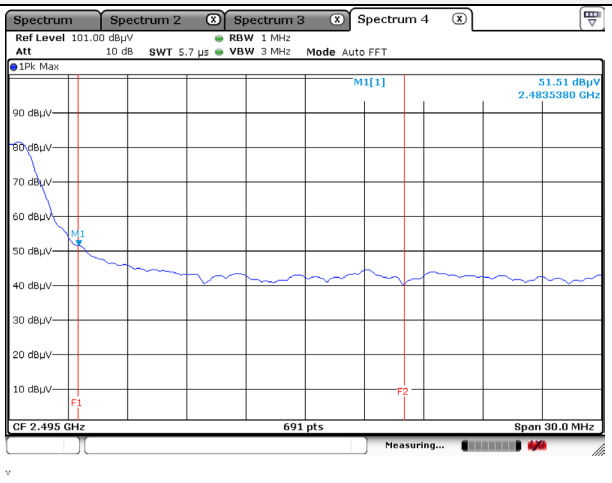
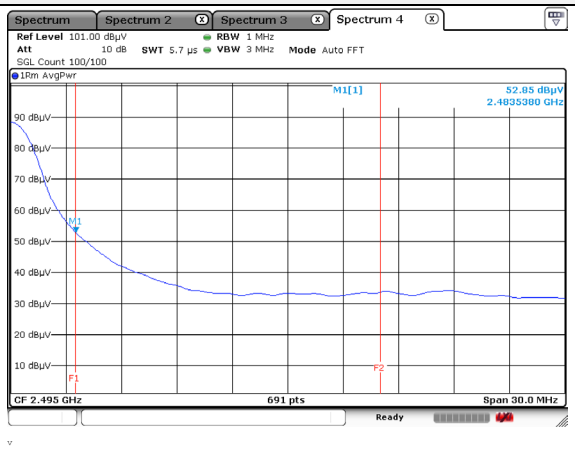
Mode: ZigBee
Distance of measurement: 3 meter
Channel: 26

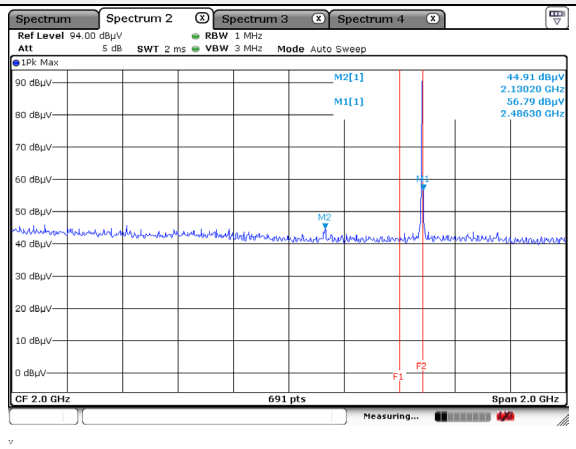
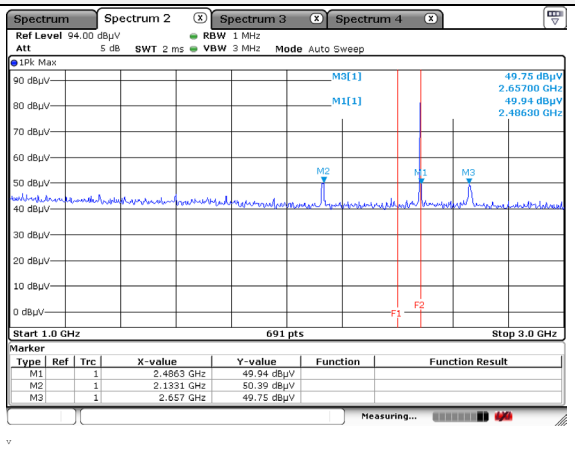
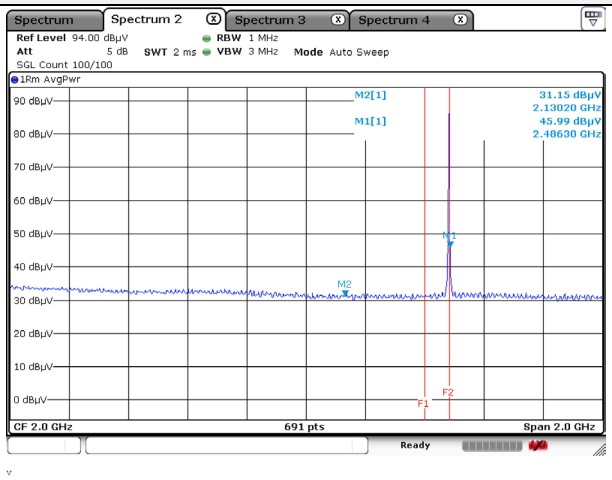
- **Spurious**

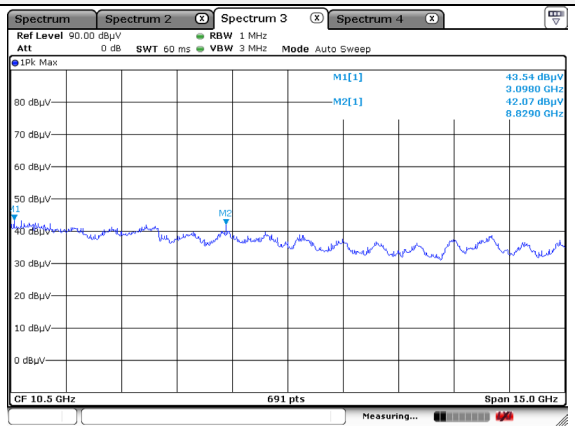
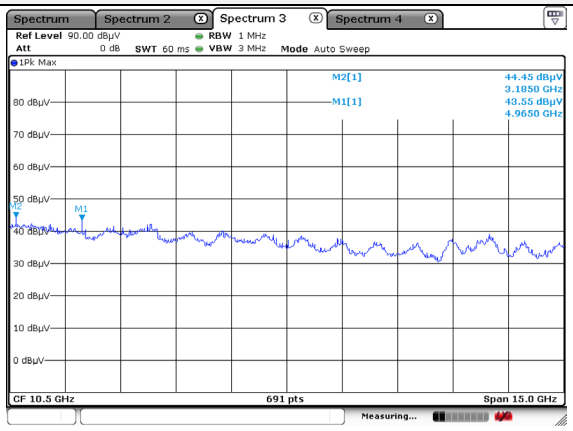
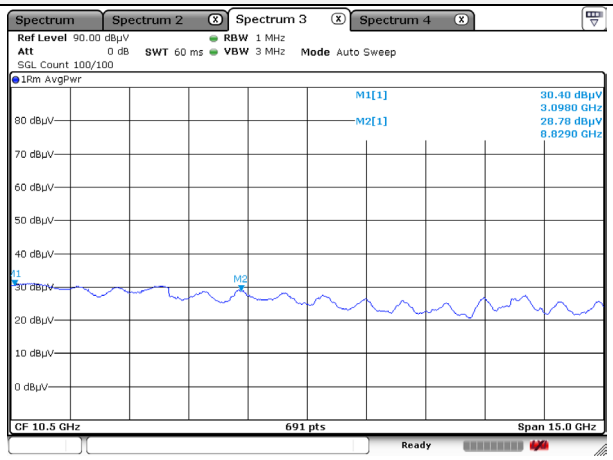
Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
2 130.20	44.91	Peak	H	-1.98	-	42.93	74.00	31.07
2 486.30	56.79	Peak	H	-1.67	-	55.12	74.00	18.88
2 130.20	31.15	Average	H	-1.98	-	29.17	54.00	24.83
2 486.30	45.99	Average	H	-1.67	-	44.32	54.00	9.68
2 133.10	50.39	Peak	V	-1.98	-	48.41	74.00	25.59
2 486.30	49.94	Peak	V	-1.67	-	48.27	74.00	25.73
2 657.00	49.75	Peak	V	-1.11	-	48.64	74.00	25.36

- **Band edge**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
2 483.54	58.68	Peak	H	-1.67	-	57.01	74.00	16.99
2 483.54	52.85	Average	H	-1.67	-	51.18	54.00	2.82
2 483.54	51.51	Peak	V	-1.67	-	49.84	74.00	24.16

Restricted band // Horizontal // Peak	Restricted band // Vertical // Peak
	
Restricted band // Horizontal // Average	**N/A**
	**N/A**

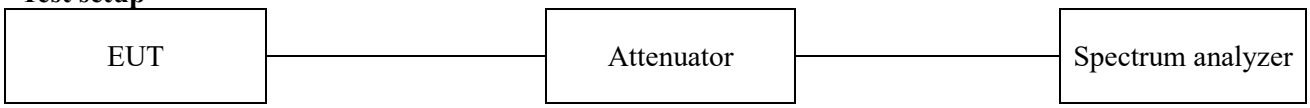
Horizontal // Peak for 1 ㎓ to 3 ㎓	Vertical // Peak for 1 ㎓ to 3 ㎓
	
Horizontal // Average for 1 ㎓ to 3 ㎓	**N/A**
	N/A

Horizontal // Peak for 3 ㎓ to 18 ㎓	Vertical // Peak for 3 ㎓ to 18 ㎓
	
Horizontal // Average for 3 ㎓ to 18 ㎓	**N/A**
	**N/A**

Note.
1. Average test would be performed if the peak result were greater than the average limit.

3.5. Conducted spurious emissions & band edge

Test setup



Test procedure

Band edge

ANSI C63.10-2013 - Section 11.11

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Set the RBW = 100 ㎑
4. Set the VBW = [3 × RBW].
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow trace to fully stabilize.

Out of band emissions

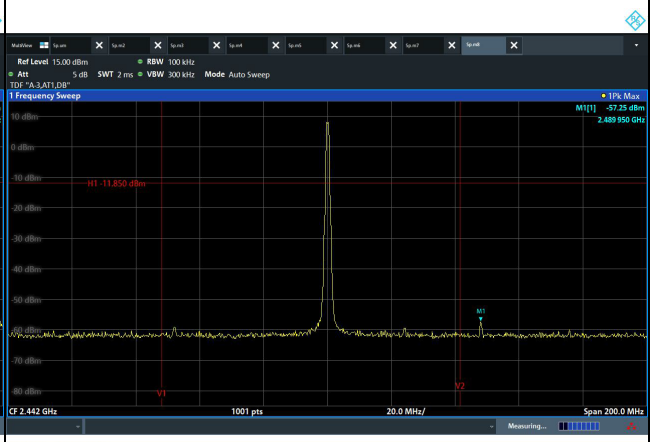
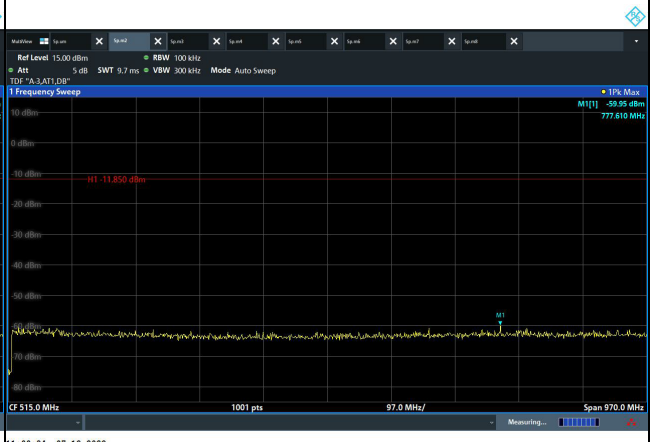
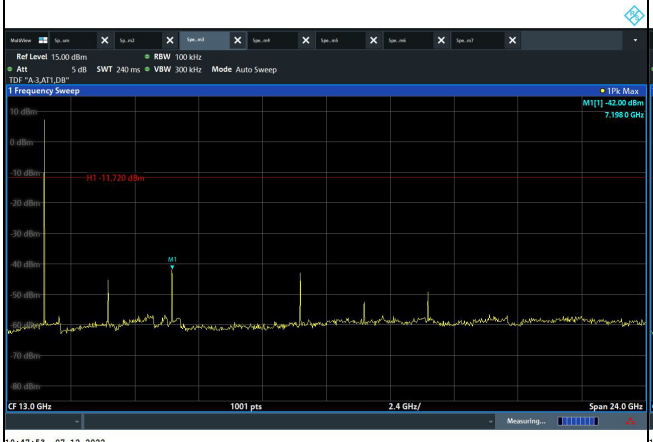
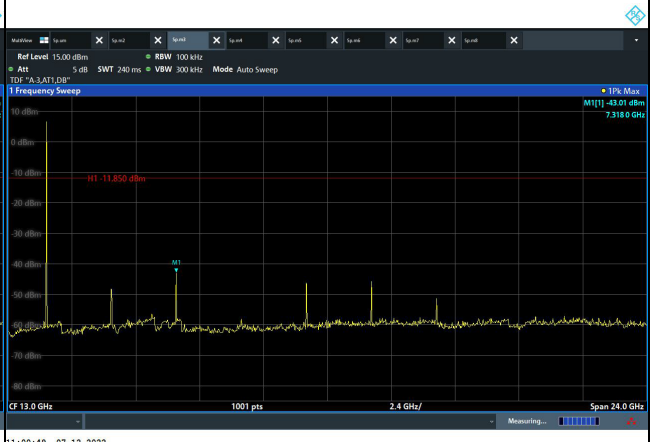
ANSI C63.10-2013 - Section 11.11

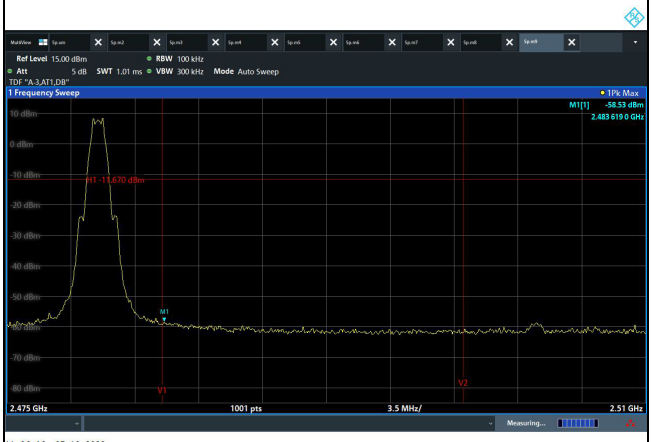
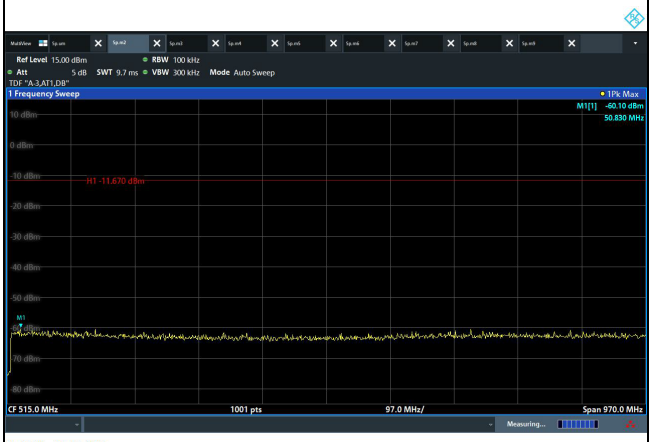
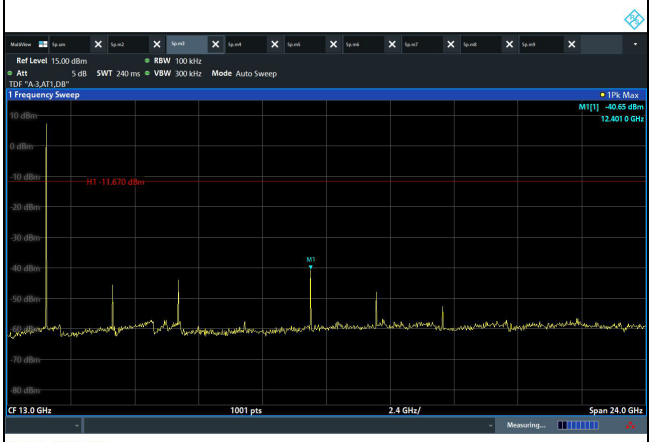
1. Start frequency was set to 30 ㎒ and stop frequency was set to 25 ㎓ for 2.4 ㎓ frequencies and 40 ㎓ for 5 ㎓ frequencies
2. Set the RBW = 100 ㎑
3. Set the VBW = [3 × RBW].
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Allow trace to fully stabilize.

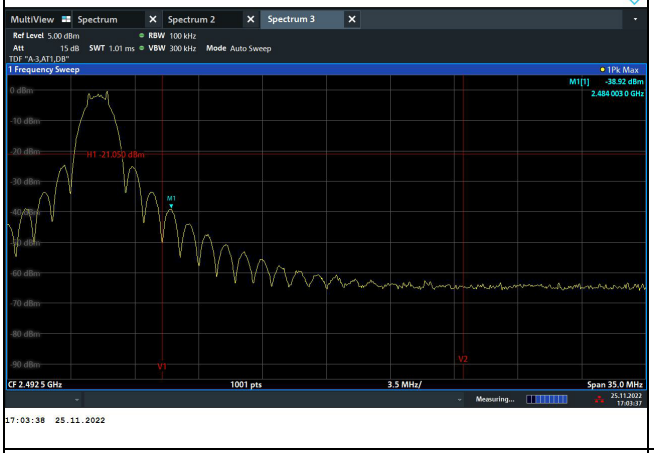
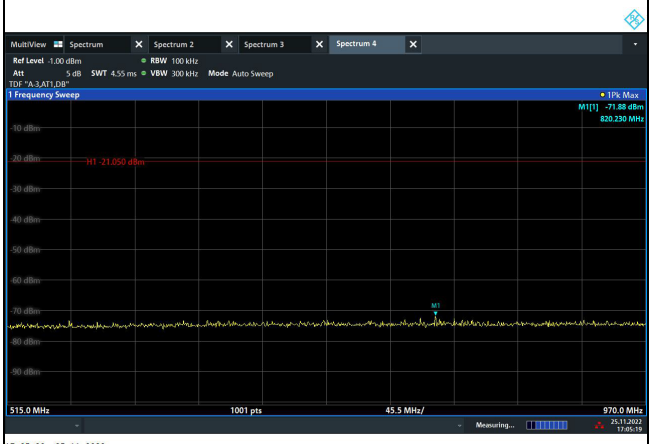
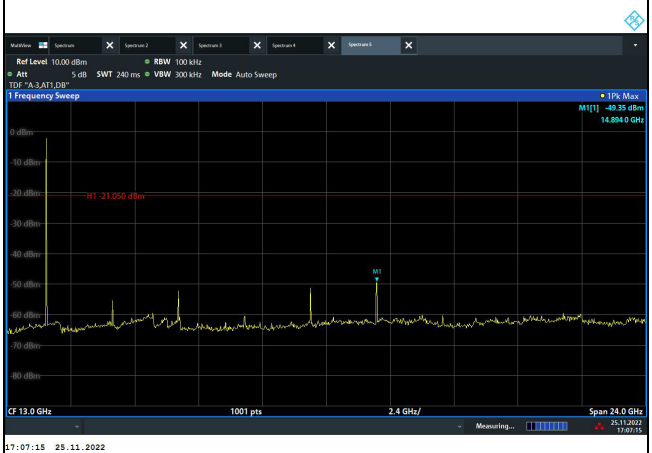
Limit

According to 15.247(d), in any 100 ㎑ bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 ㏈ below that in the 100 ㎑ 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 limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval , as permitted under paragraph(b)(3) of this section , the attenuation required under this paragraph shall be 30 ㏈ instead of 20 ㏈. Attenuation below the general limits specified in section 15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section 15.205(a), must also comply the radiated emission limits specified in section 15.209(a) (see section 15.205(c))

Test results

LE 1M	
2402 MHz	2442 MHz
	
	
	

LE 1M	
2480 MHz	-
	N/A
	N/A
	N/A

ZigBee	
2 480 MHz	
	N/A
	N/A
	N/A

Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum Analyzer	R&S	FSV40	101002	1 year	2023.01.13
Spectrum Analyzer	R&S	FSV3030	101800	1 year	2023.04.04
ATTENUATOR	Mini-Circuits	BW-S10-2W263+	1	1 year	2023.01.17
Power Meter	Anritsu	ML2495A	1438001	1 year	2023.01.13
Pulse Power Sensor	Anritsu	MA2411B	1339205	1 year	2023.01.13
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2023.04.27
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2023.01.14
BAND REJECT FILTER	MICRO-TRONICS	BRM50702	G272	1 year	2023.01.14
Attenuator	HUBER+SUHNER	6806.17.A	-	1 year	2022.11.19
Loop Antenna	Schwarzbeck	FMZB1513	225	2 years	2023.03.18
Horn Antenna	A.H	SAS-571	414	1 year	2023.01.18
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2023.01.20
TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	714	2 years	2024.04.19
Amplifier	SONOMA INSTRUMENT	310N	401123	1 year	2023.06.02
PREAMPLIFIER	HP	8449B	3008A00538	1 year	2023.06.02
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2023.01.17
DC POWER SUPPLY	AGILENT	6632B	MY43004114	1 year	2023.06.17
EMI Test Receiver	R&S	ESU26	100552	1 year	2023.03.31

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	15ND530-GX50K	311QCFT567147