

Conducted test results

No.1-3399-26-02-03_TR1-A201-R01

September 09, 2026

Test Standard(s)	FCC 15.407 - NI
	ISED RSS247 - NI
	FCC 15.407, ISED RSS247 - NI

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ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3	165
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3	171
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3	175
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NA # Message with SA scan ~ WLAN5Gx a U-NII-3	180
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NA # Message with SA scan ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:16:07
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-1
Information	Ant 136

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110
Message start	20.08.2026 09:16:10
Message	set WLAN5Gx to a_U-NII-1 Frequency [MHz]: 5180 Power setting: 4 Port: EUT2 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:16:21
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5175
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5175 MHz

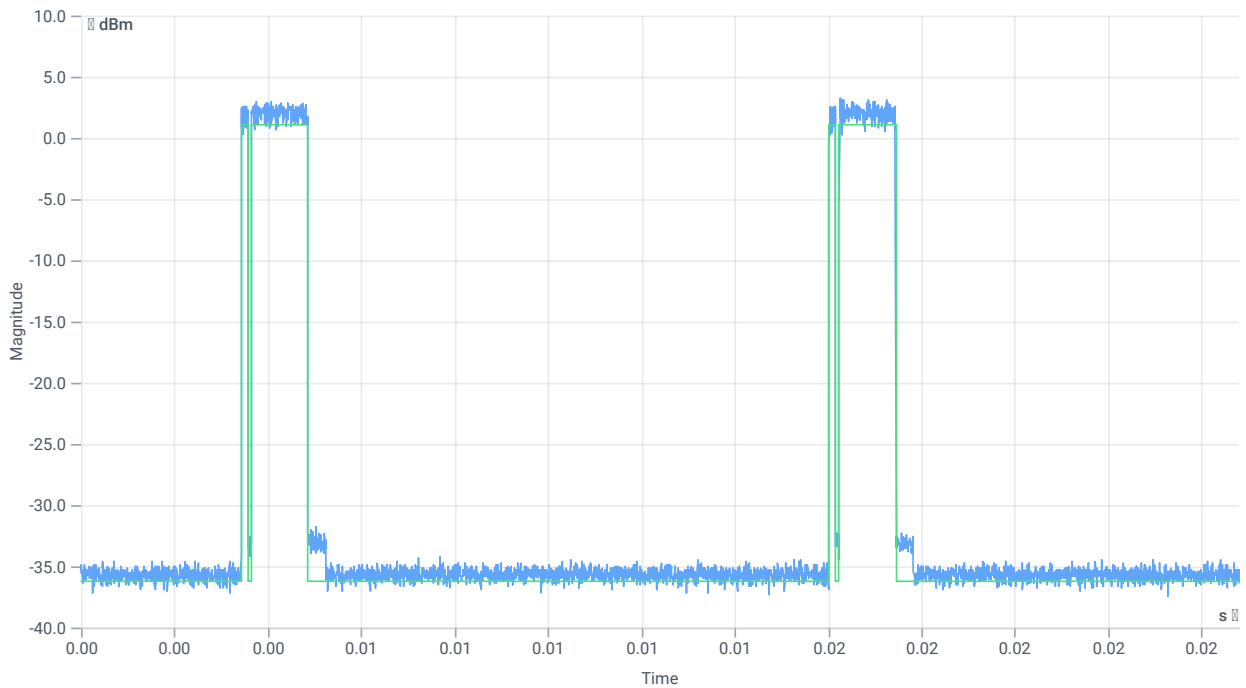
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.57	dBm	INFO
Ref. frequency	---	---	5174.400	MHz	INFO

Evaluation max. duty cycle

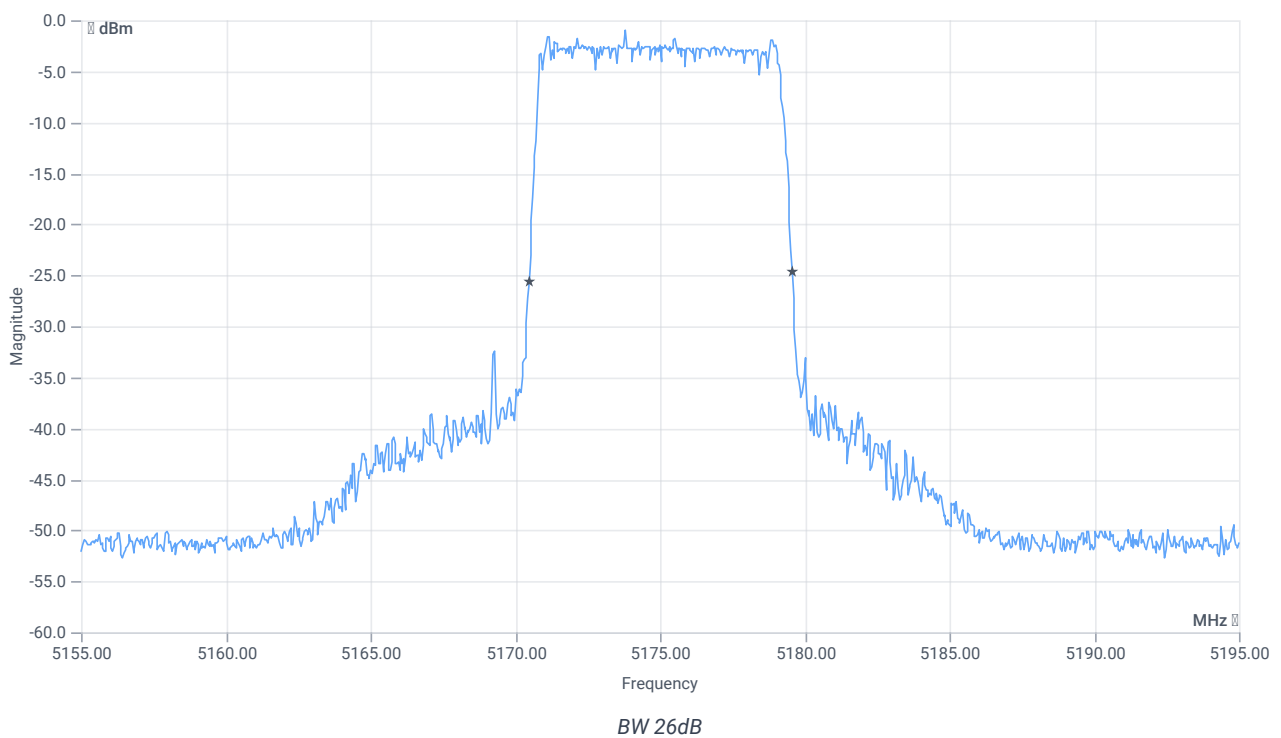
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.02	dBm	INFO
Estimated noise floor	---	---	-36.19	dBm	INFO
Dynamic range (ON - noise)	---	---	37.21	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

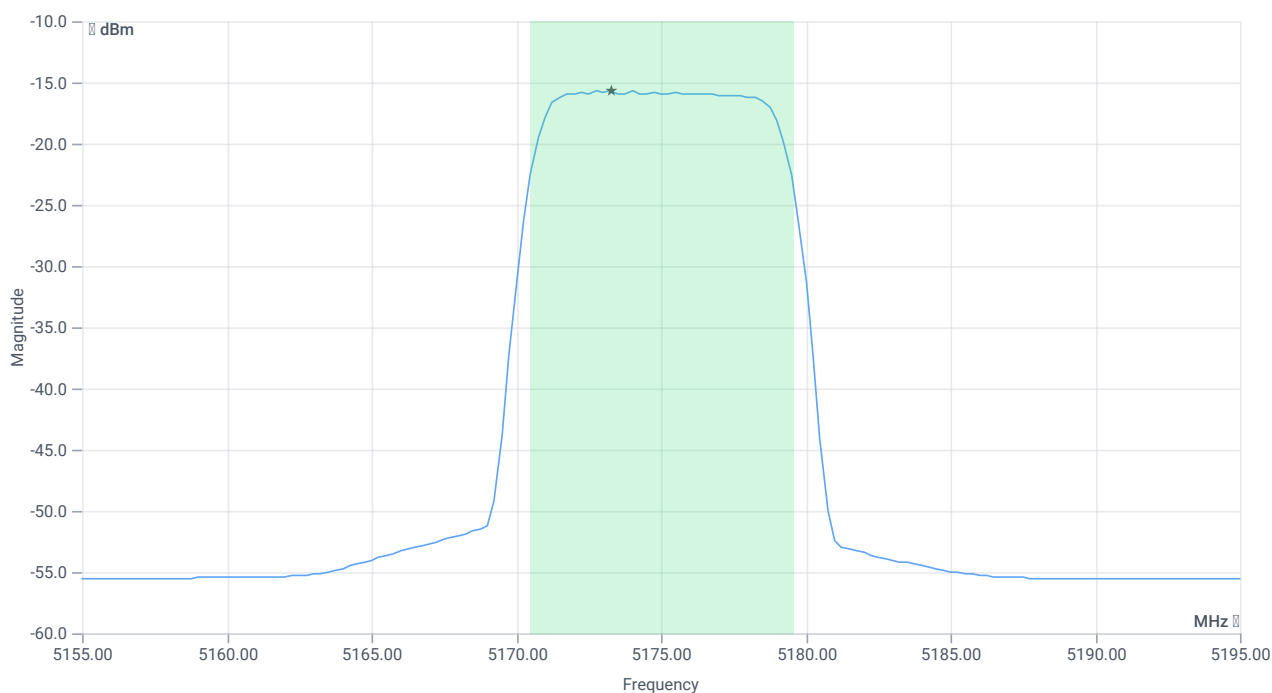
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.08	MHz	INFO
T1 26dB	---	---	5170.4800	MHz	INFO
T2 26dB	---	---	5179.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.57 5.69 25
Start [MHz] Stop [MHz]	5155.000 5195.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-7.08	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	24	3	dBm	PASS
---	----	---	-----	------

LIMIT: 11 dBm + 10 log 9.08

Max output power DC --- corrected cond	N/A	3	dBm	N/A
---	-----	---	-----	-----

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-15.74	dBm/MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Power spectral density DC corrected cond	---	11	-5.66	dBm/MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:18:01
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5175
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5175 MHz

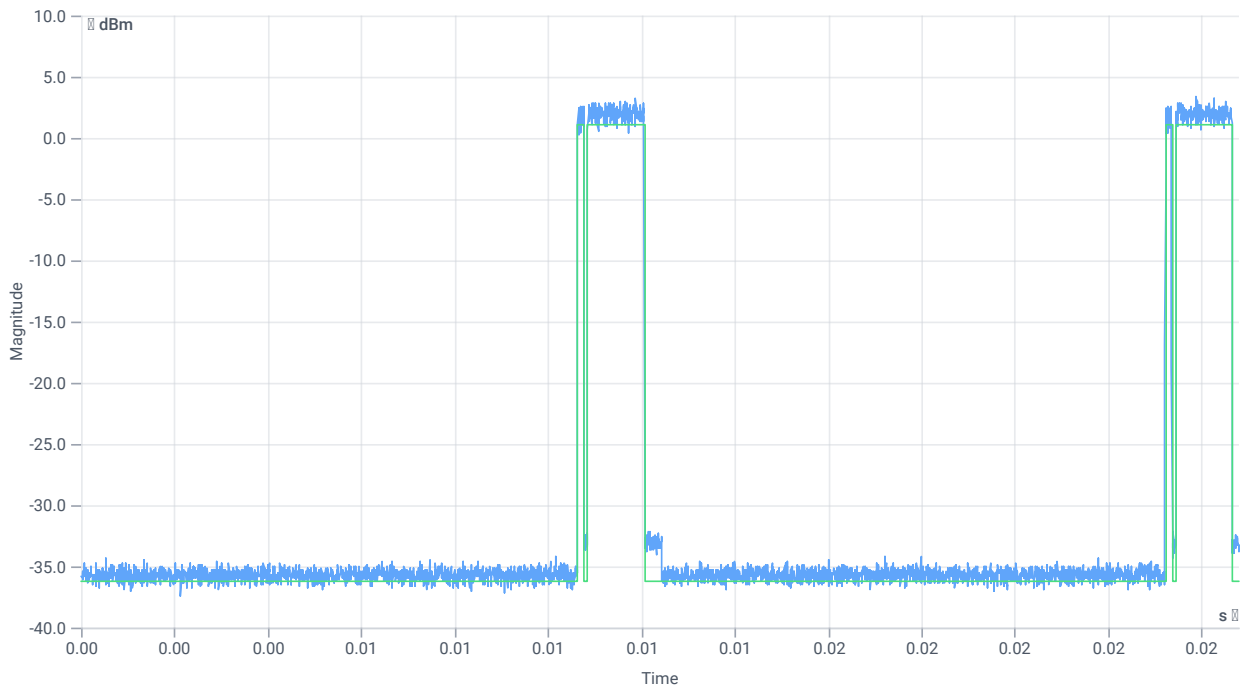
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.57	dBm	INFO
Ref. frequency	---	---	5175.400	MHz	INFO

Evaluation max. duty cycle

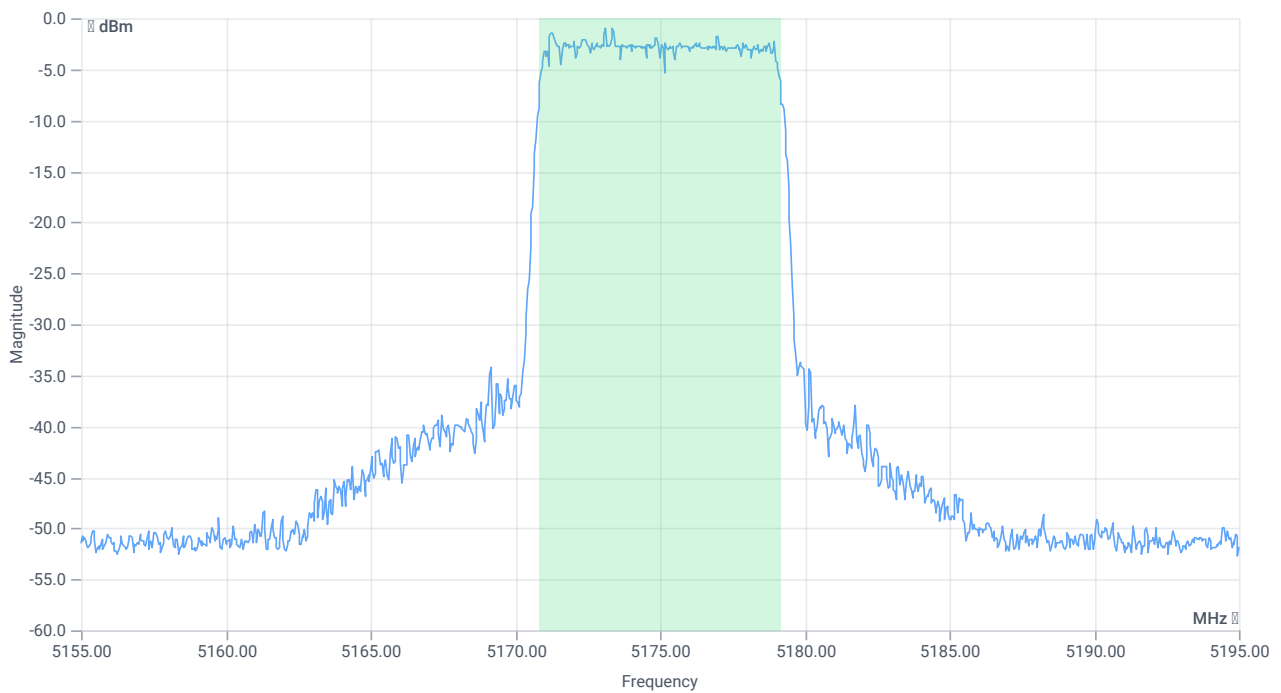
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.04	dBm	INFO
Estimated noise floor	---	---	-36.25	dBm	INFO
Dynamic range (ON - noise)	---	---	37.28	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0977	---	INFO
Duty cycle min	---	---	10.101	dB	INFO
Max TX burst length	---	---	1.2092	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.352	MHz	INFO
T1 99%	---	---	5170.8442	MHz	INFO
T2 99%	---	---	5179.1958	MHz	INFO

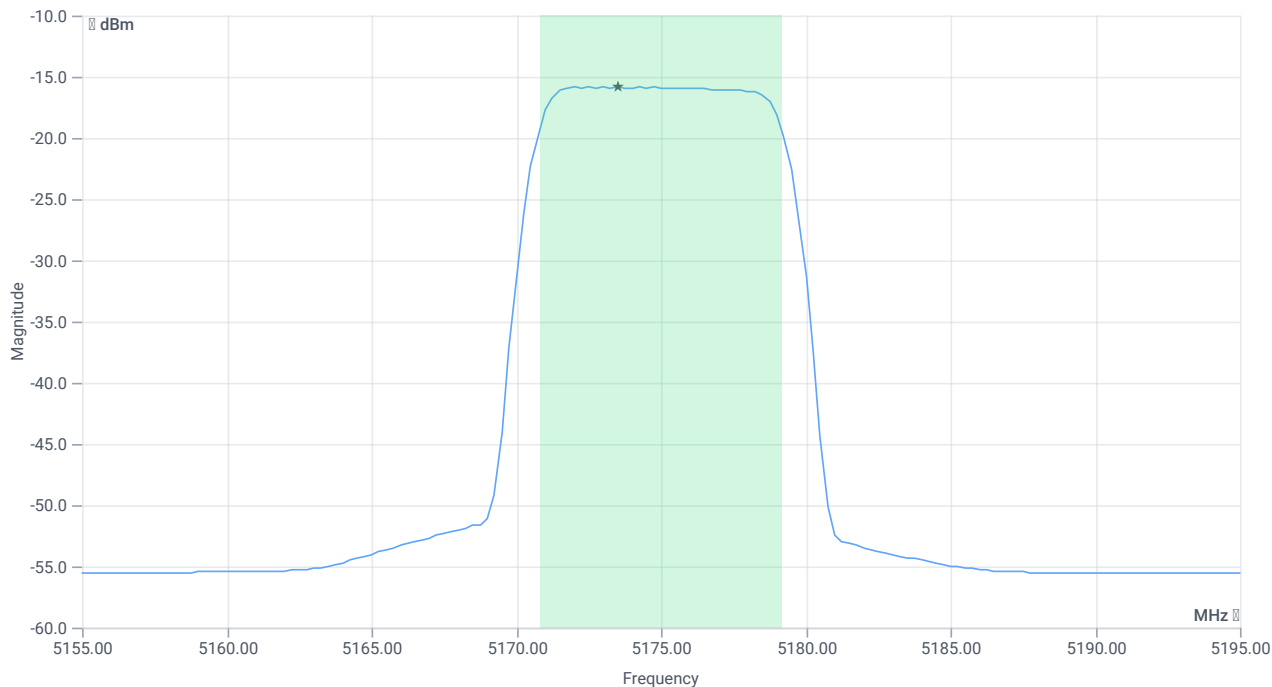
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 6.8 @ 5175 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.57 5.69 25
Start [MHz] Stop [MHz]	5155.000 5195.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-7.22	dBm	INFO
Duty cycle correction	---	---	10.1	dB	INFO
Max output power DC corrected cond	---	---	2.88	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	9.68	dBm	PASS
LIMIT: 10 dBm + 10 log 8.352					
Max output power DC corrected eirp	---	19.22	9.68	dBm	PASS
Power spectral density eirp	---		-8.95	dBm/MHz	INFO
Power spectral density DC corrected eirp	---	10	1.15	dBm/MHz	PASS
LIMIT absolute cond (RSS-247 §6.2.1)					
Max output power DC corrected cond	---	24	2.88	dBm	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:19:39
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5175
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

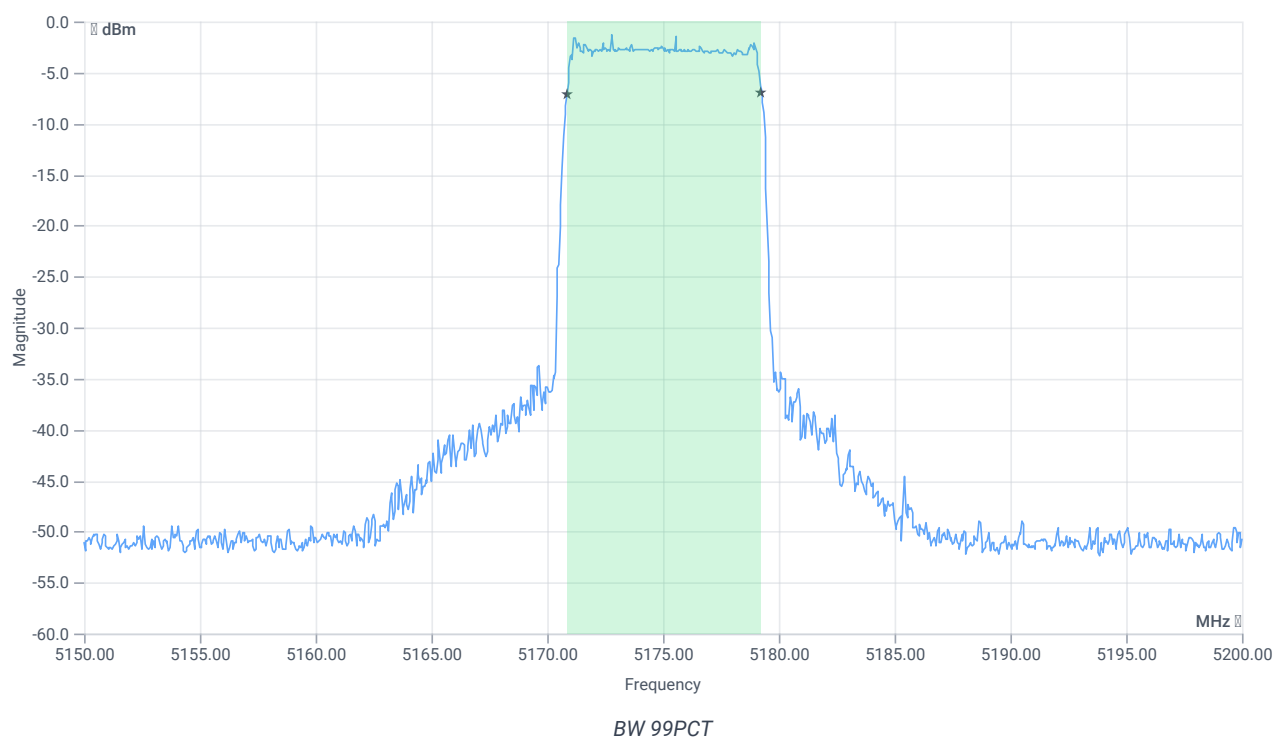
Test at TX 5175 MHz

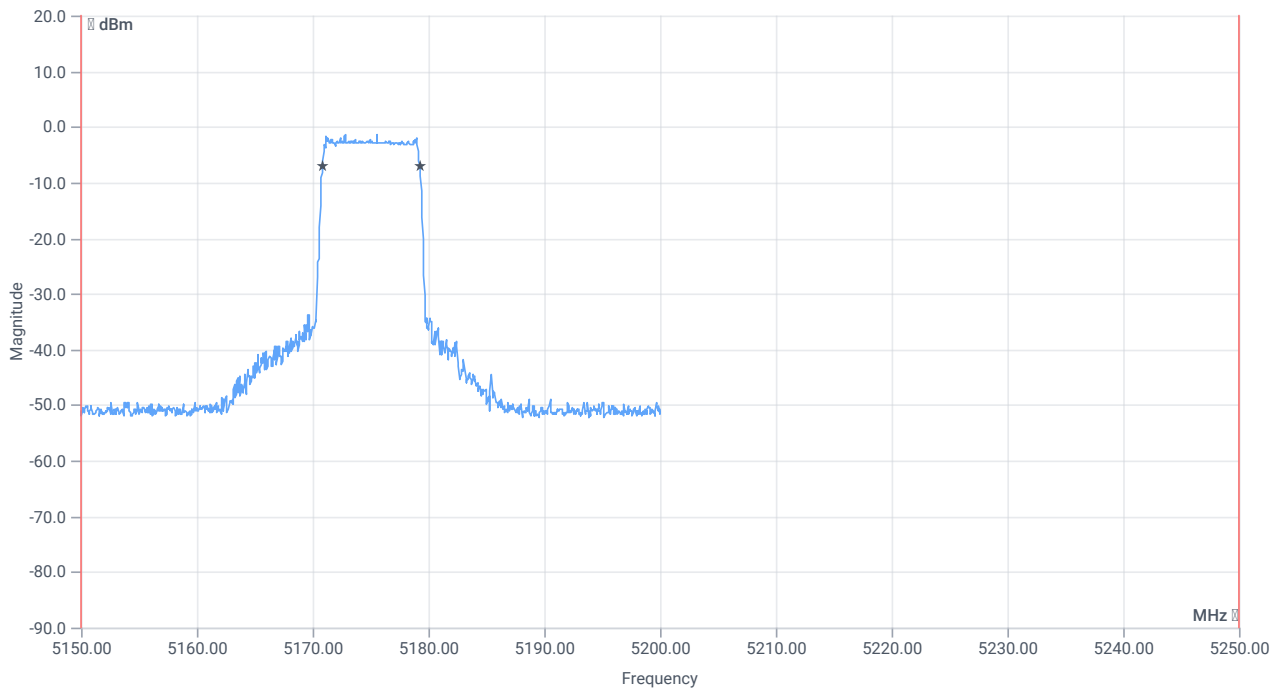
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.82	dBm	INFO
Ref. frequency	---	---	5176.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.82 5.69 25
Start [MHz] Stop [MHz]	5150.000 5200.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

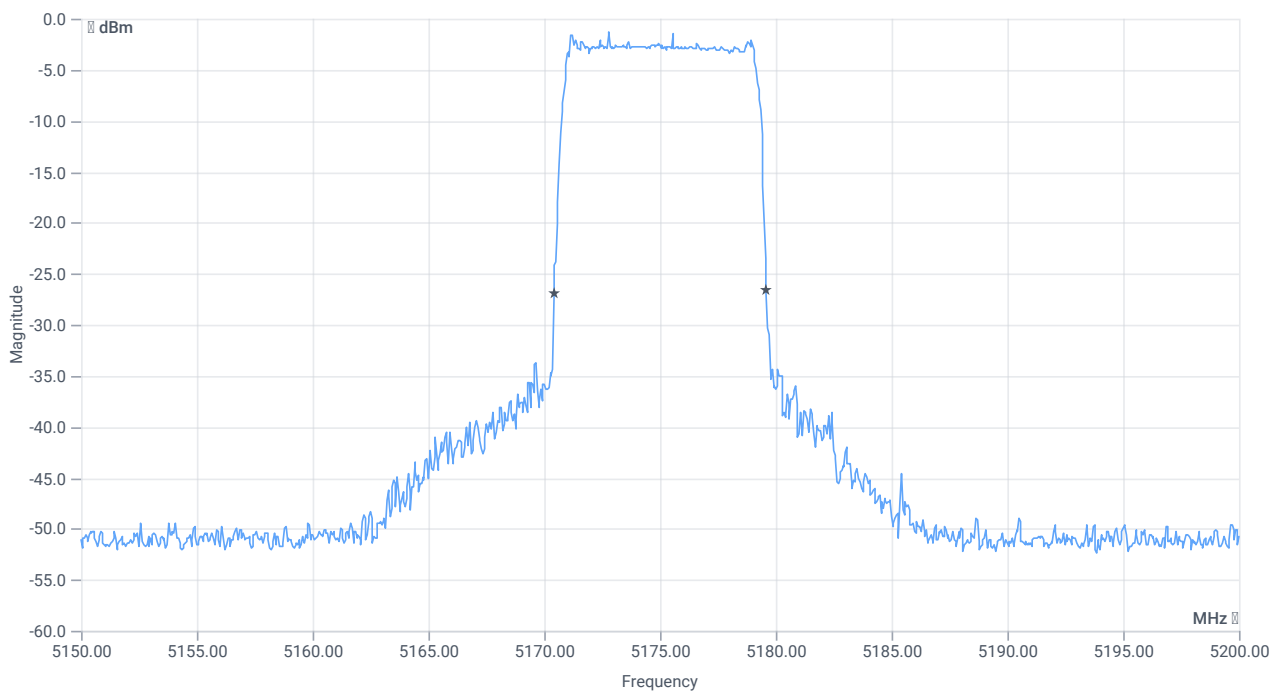




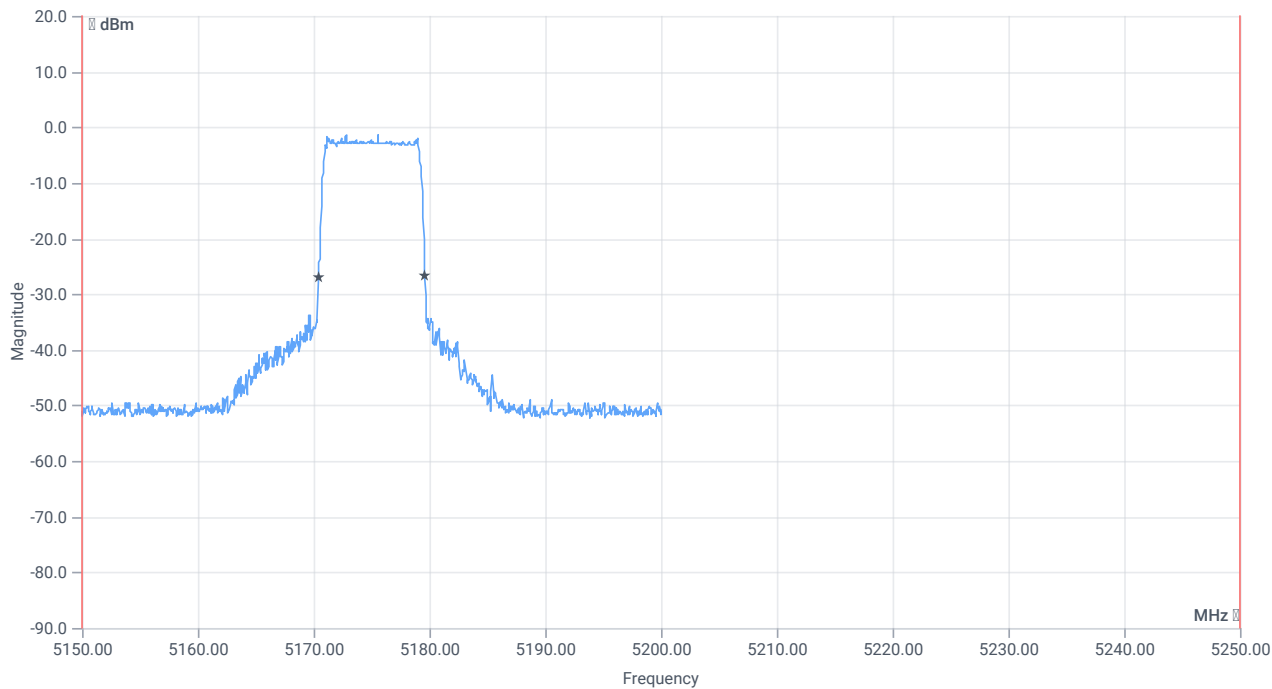
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5150.000000	---	5170.8541	MHz	PASS
T2 99%	---	5250.000000	5179.2458	MHz	PASS



BW 26dB



BW within band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.2	MHz	INFO
T1 26dB	5150.000000	---	5170.4000	MHz	PASS
T2 26dB	---	5250.000000	5179.6000	MHz	PASS

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:20:16
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-1
Information	Ant 136

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110
Message start	20.08.2026 09:20:19
Message	set WLAN5Gx to a_U-NII-1 Frequency [MHz]: 5200 Power setting: 4 Port: EUT2 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:41:10
Ambit temp (test rack) [°C] humidity [rel%]	25.7 45
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5215
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5215 MHz

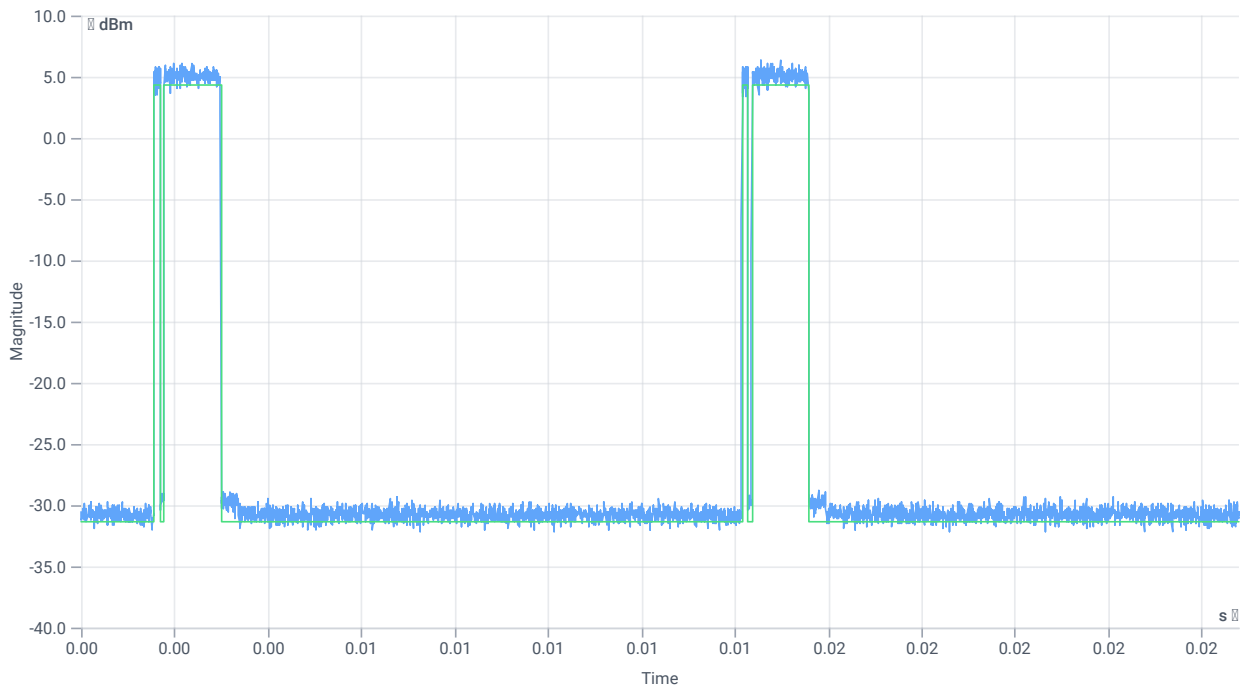
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.94	dBm	INFO
Ref. frequency	---	---	5216.400	MHz	INFO

Evaluation max. duty cycle

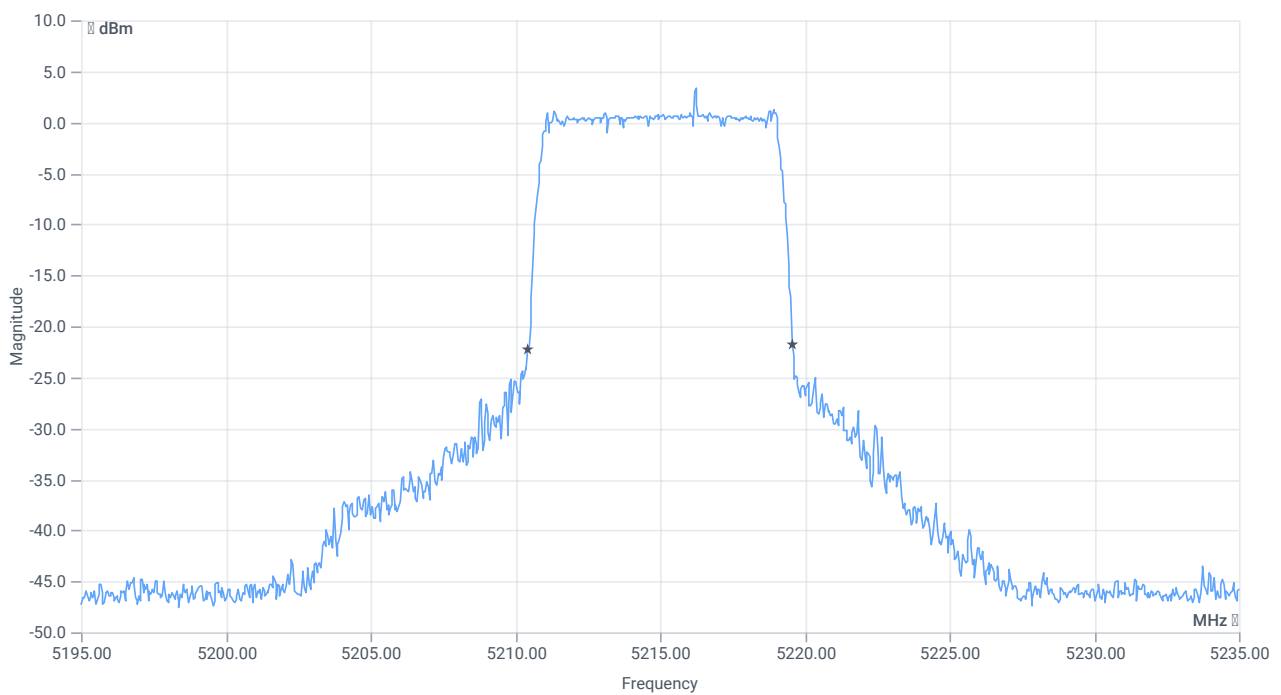
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	4.26	dBm	INFO
Estimated noise floor	---	---	-31.29	dBm	INFO
Dynamic range (ON - noise)	---	---	35.55	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

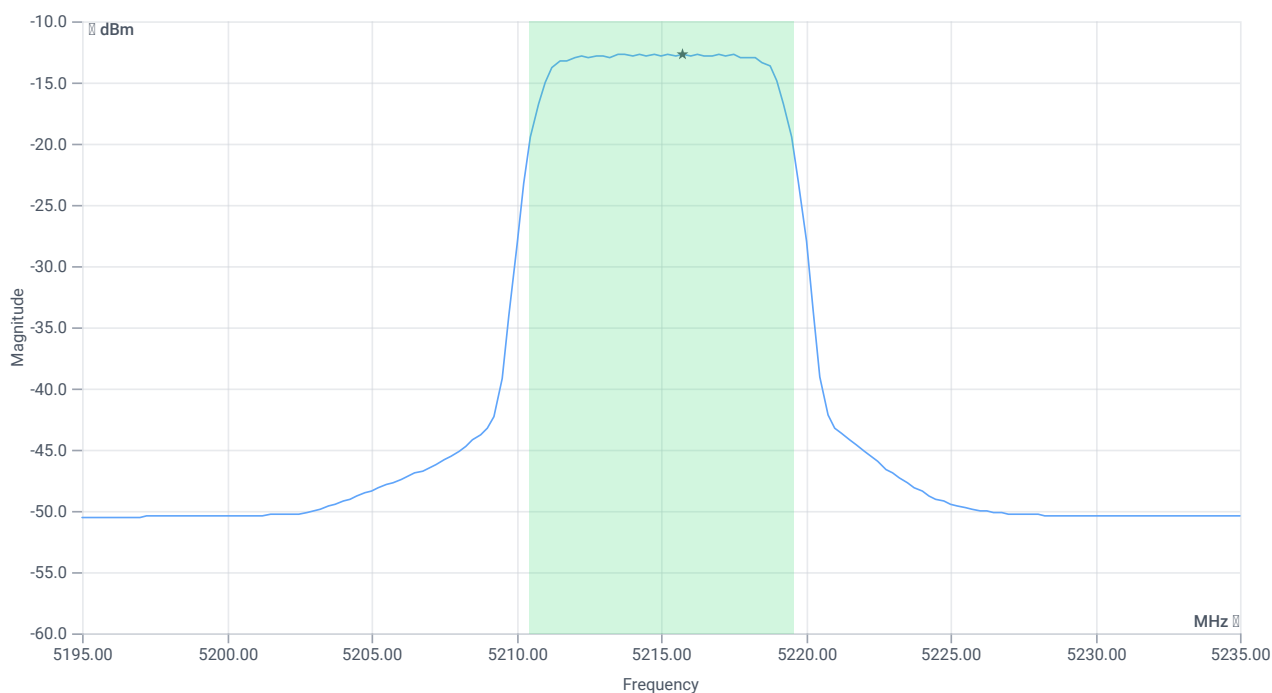
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.12	MHz	INFO
T1 26dB	---	---	5210.4400	MHz	INFO
T2 26dB	---	---	5219.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.94 5.83 30
Start [MHz] Stop [MHz]	5195.000 5235.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-4	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	24	6.08	dBm	PASS
---	----	------	-----	------

LIMIT: 11 dBm + 10 log 9.12

Max output power DC --- corrected cond	N/A	6.08	dBm	N/A
---	-----	------	-----	-----

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-12.67	dBm/MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Power spectral density DC corrected cond	---	11	-2.59	dBm/MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:42:46
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5215
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5215 MHz

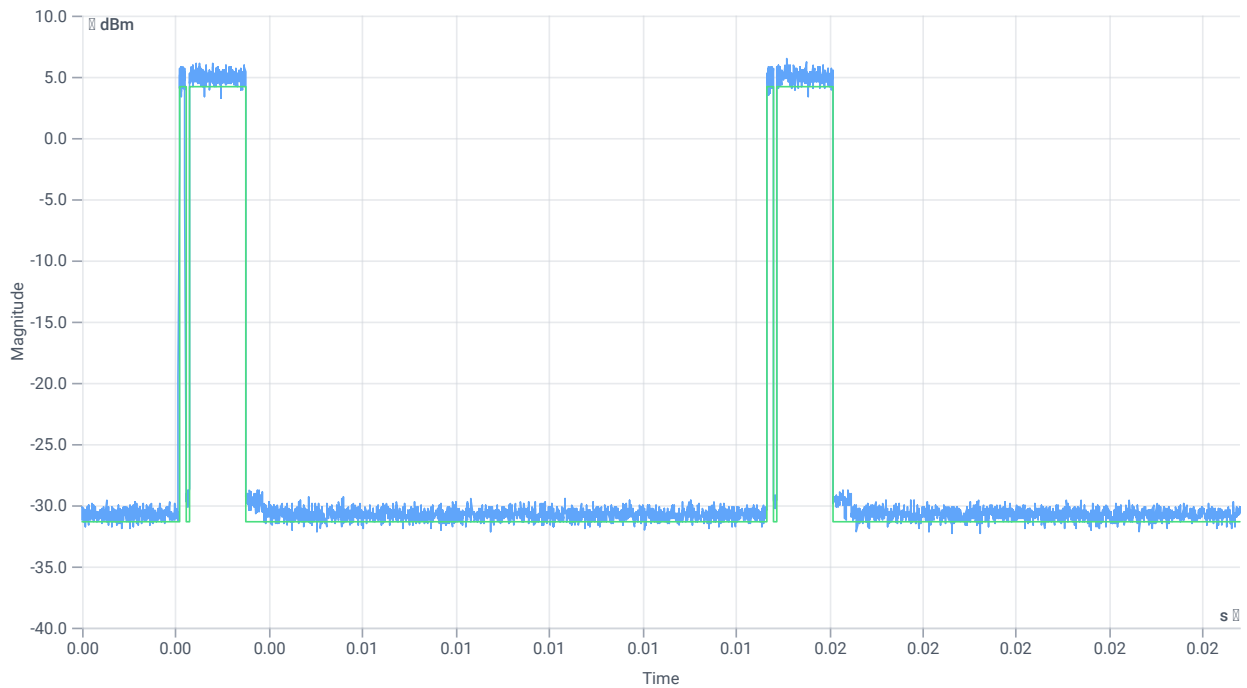
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.80	dBm	INFO
Ref. frequency	---	---	5215.000	MHz	INFO

Evaluation max. duty cycle

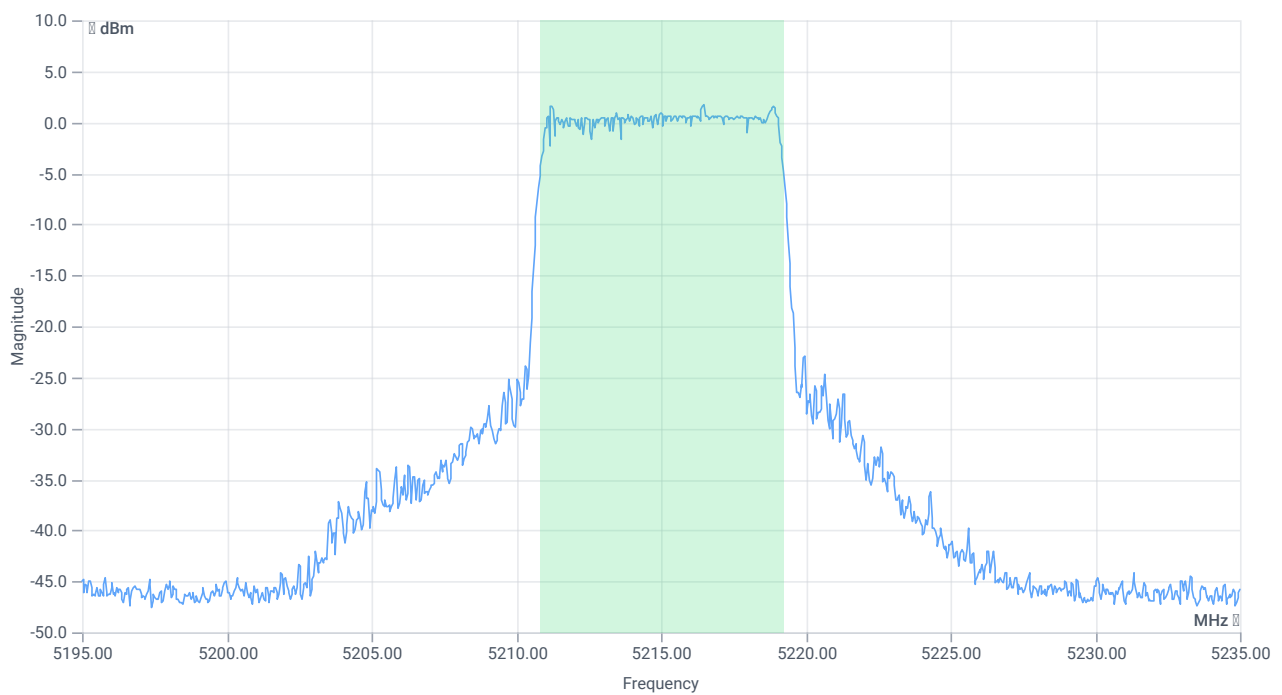
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	4.18	dBm	INFO
Estimated noise floor	---	---	-31.29	dBm	INFO
Dynamic range (ON - noise)	---	---	35.46	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	---	---	5210.8442	MHz	INFO
T2 99%	---	---	5219.2358	MHz	INFO

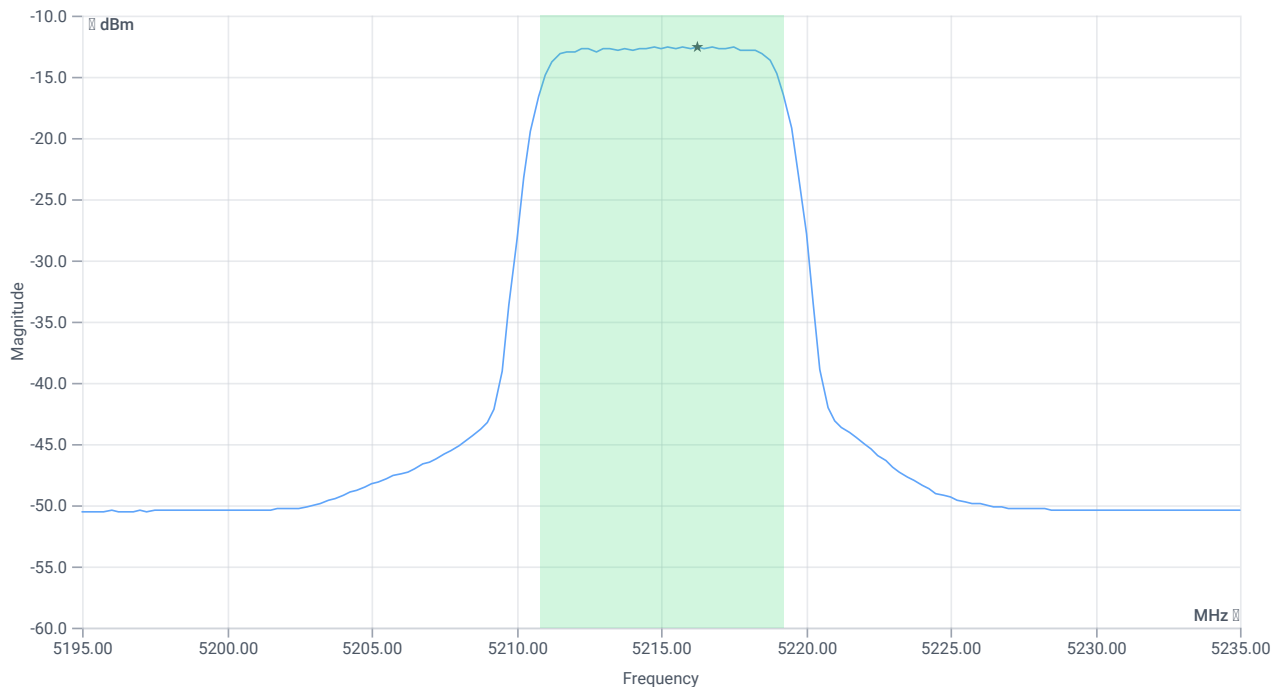
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 6.8 @ 5215 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.80 5.83 30
Start [MHz] Stop [MHz]	5195.000 5235.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-4	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Max output power DC corrected cond	---	---	6.08	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	12.88	dBm	PASS
LIMIT: 10 dBm + 10 log 8.392					
Max output power DC corrected eirp	---	19.24	12.88	dBm	PASS
Power spectral density eirp	---		-5.77	dBm/MHz	INFO
Power spectral density DC corrected eirp	---	10	4.31	dBm/MHz	PASS
LIMIT absolute cond (RSS-247 §6.2.1)					
Max output power DC corrected cond	---	24	6.08	dBm	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:44:20
Ambit temp (test rack) [°C] humidity [rel%]	25.8 45
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5215
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

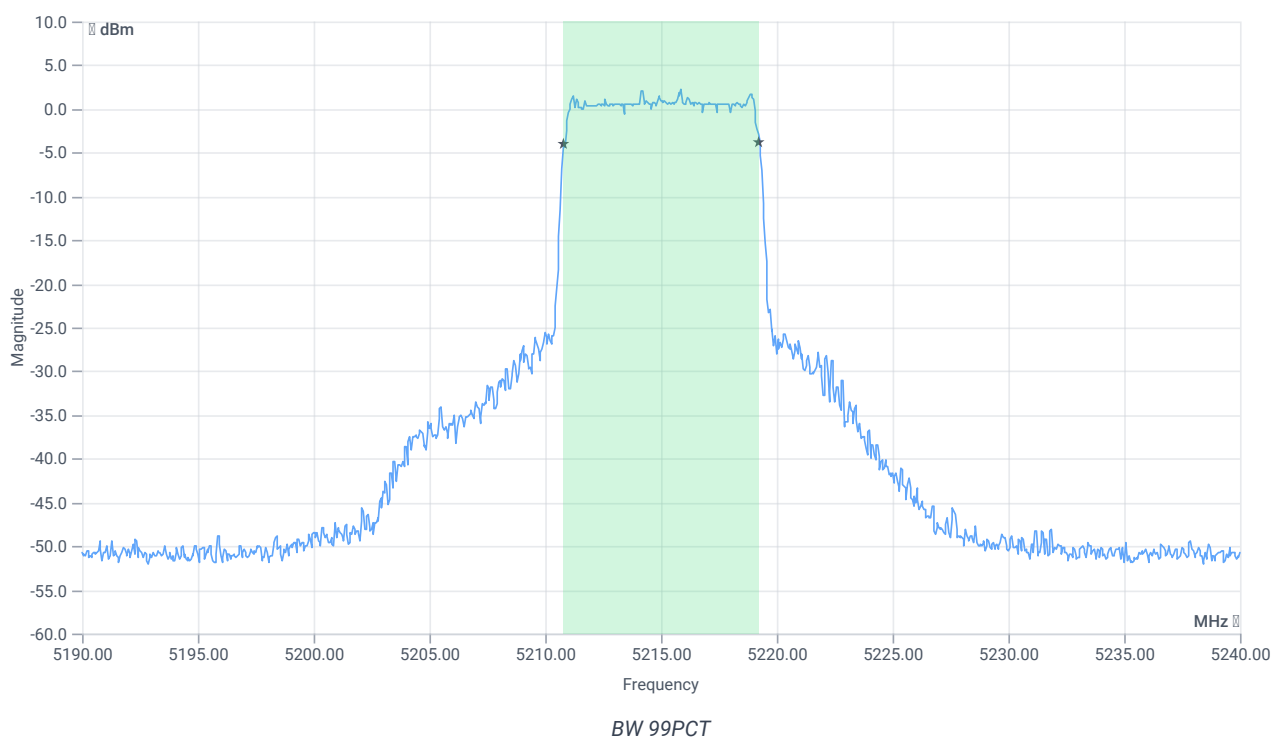
Test at TX 5215 MHz

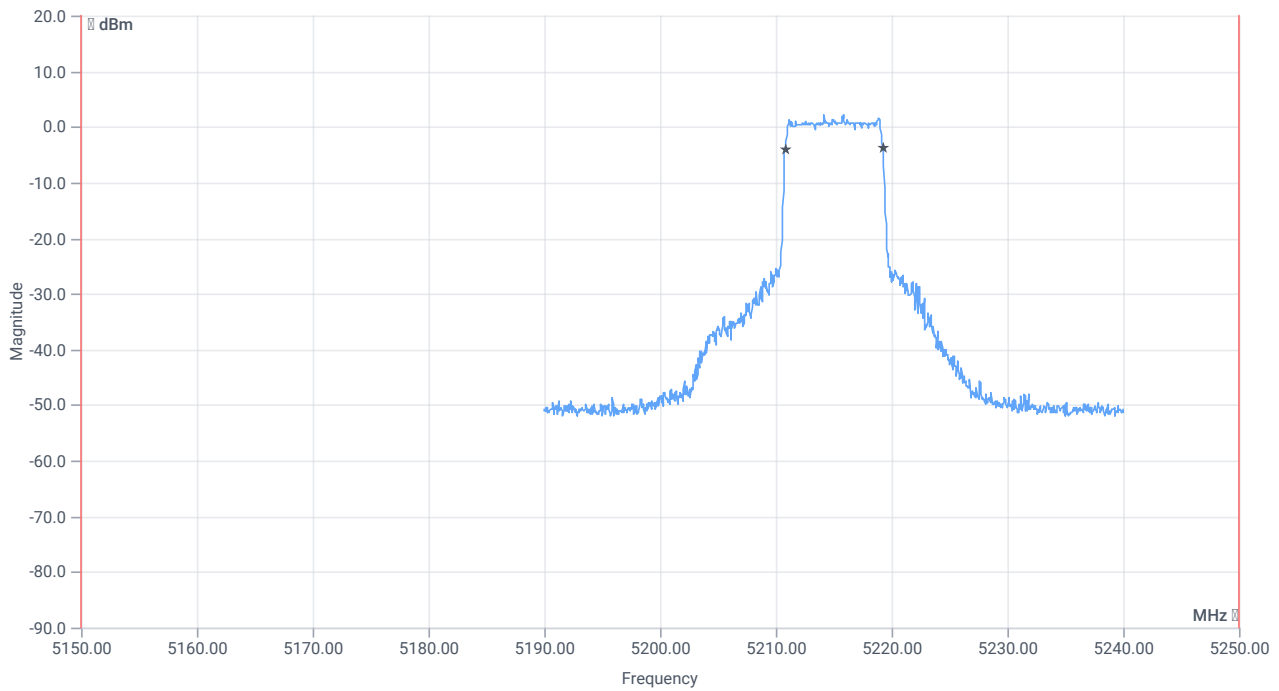
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.99	dBm	INFO
Ref. frequency	---	---	5214.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.99 5.83 25
Start [MHz] Stop [MHz]	5190.000 5240.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

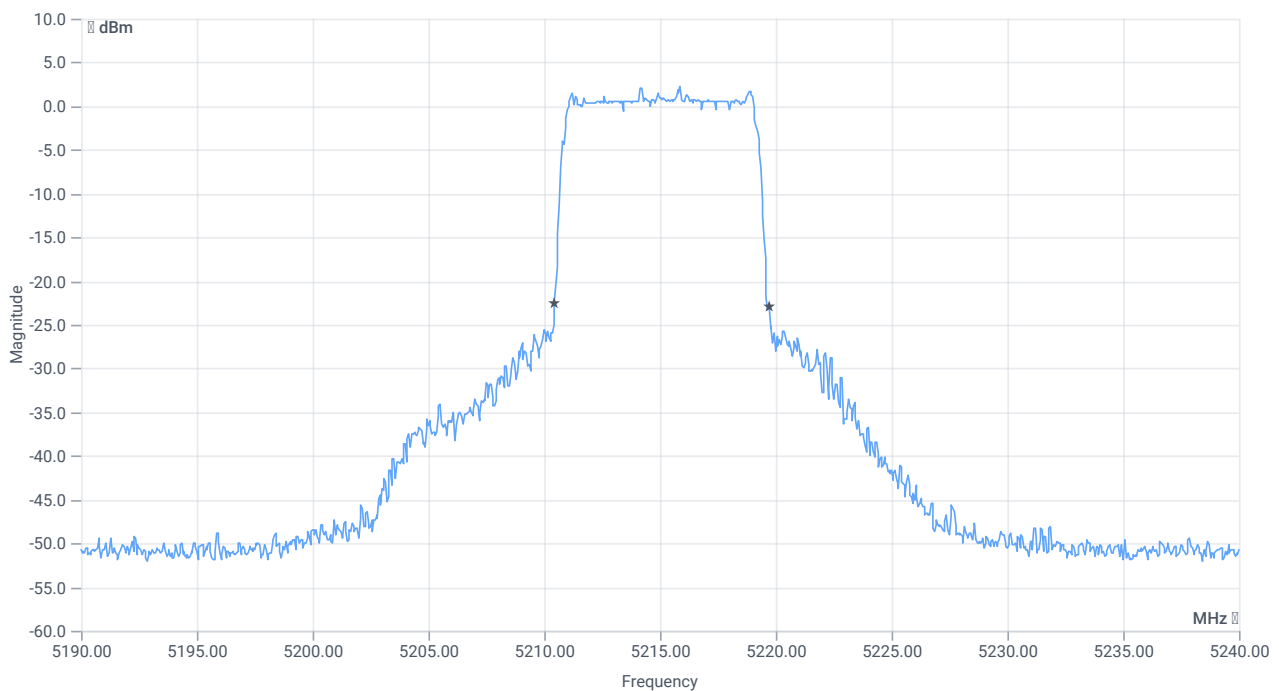




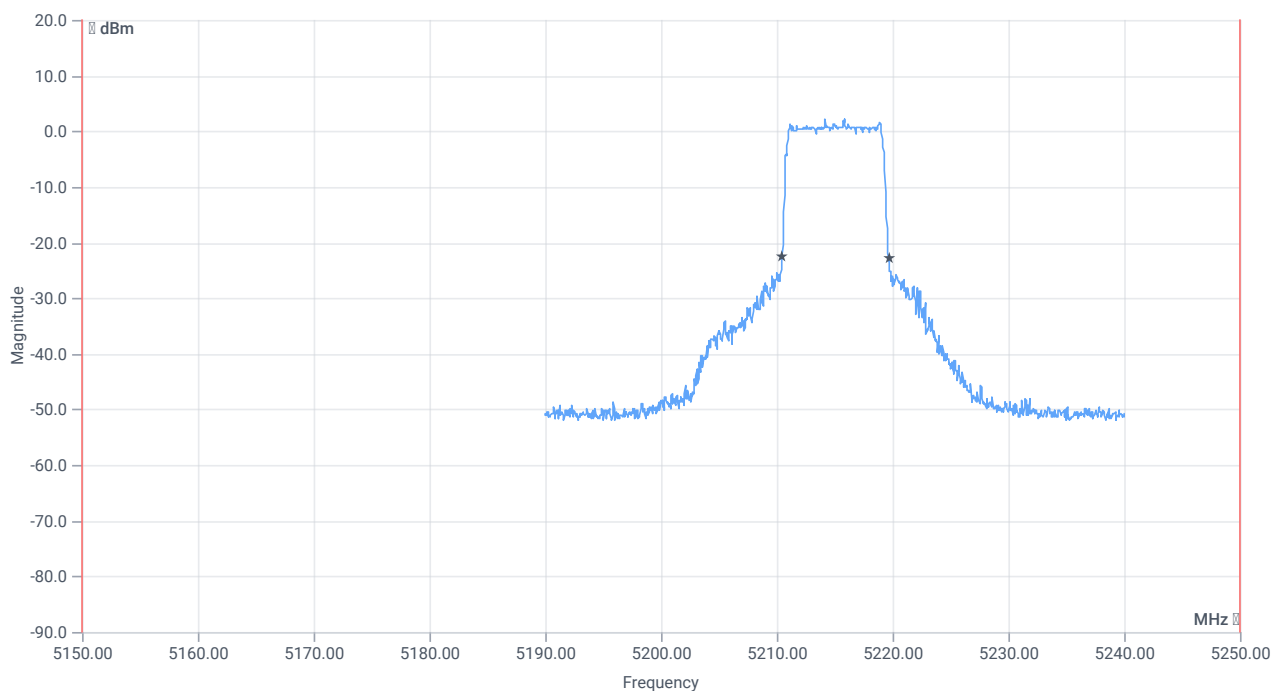
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.442	MHz	INFO
T1 99%	5150.000000	---	5210.8042	MHz	PASS
T2 99%	---	5250.000000	5219.2458	MHz	PASS



BW 26dB



BW within band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.25	MHz	INFO
T1 26dB	5150.000000	---	5210.4500	MHz	PASS
T2 26dB	---	5250.000000	5219.7000	MHz	PASS

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:44:51
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-1
Information	Ant 136

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110
Message start	20.08.2026 09:44:53
Message	set WLAN5Gx to a_U-NII-1 Frequency [MHz]: 5240 Power setting: 4 Port: EUT2 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:51:01
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5245
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5245 MHz

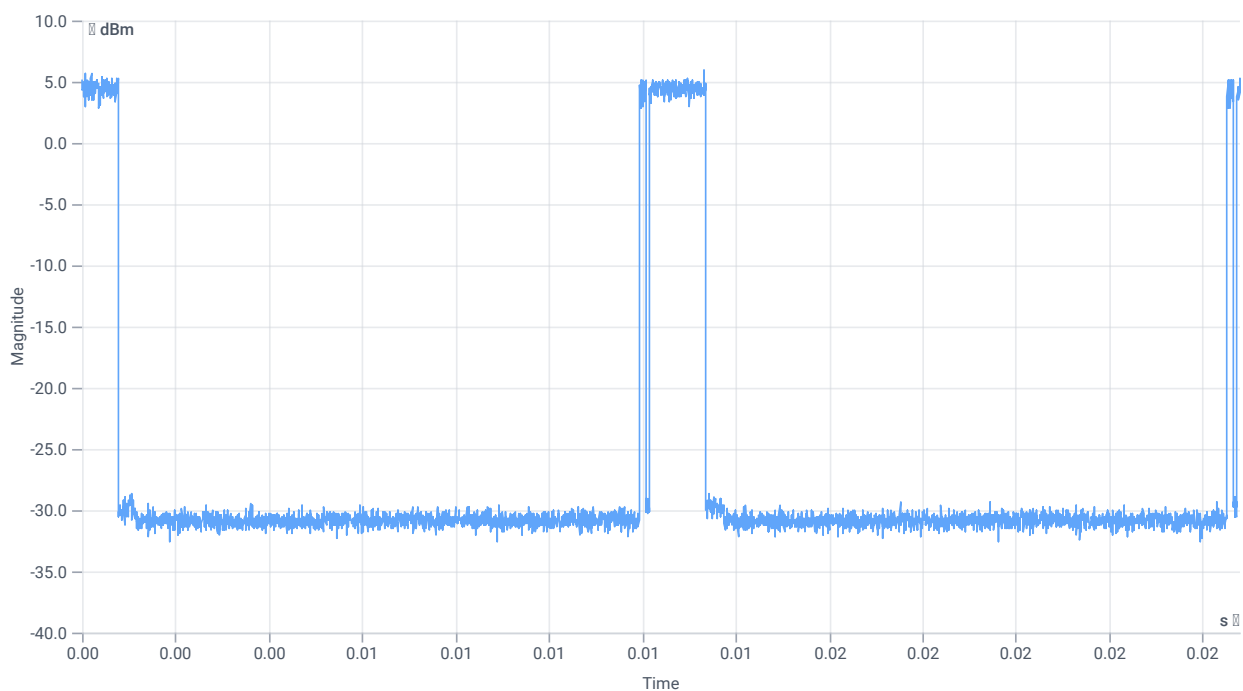
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.25	dBm	INFO
Ref. frequency	---	---	5245.800	MHz	INFO

Evaluation max. duty cycle

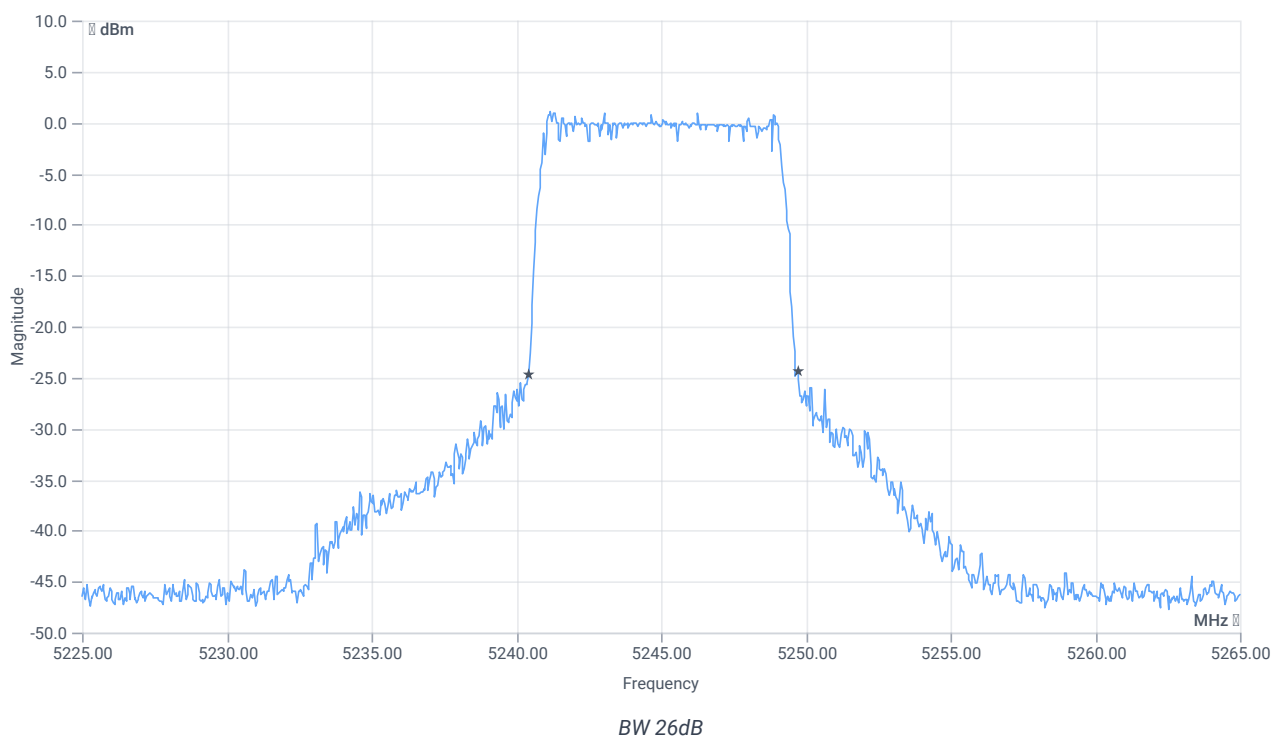
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Continuous / no burst structure (dynamic < 10 dB) - duty cycle = 1 (0 dB)	---	---	---	---	INFO
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Dynamic range (ON - noise)	---	---	2.14	dB	INFO
Estimated ON level	---	---	-29.25	dBm	INFO
Estimated noise floor	---	---	-31.39	dBm	INFO
Duty cycle min	---	---	0	dB	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



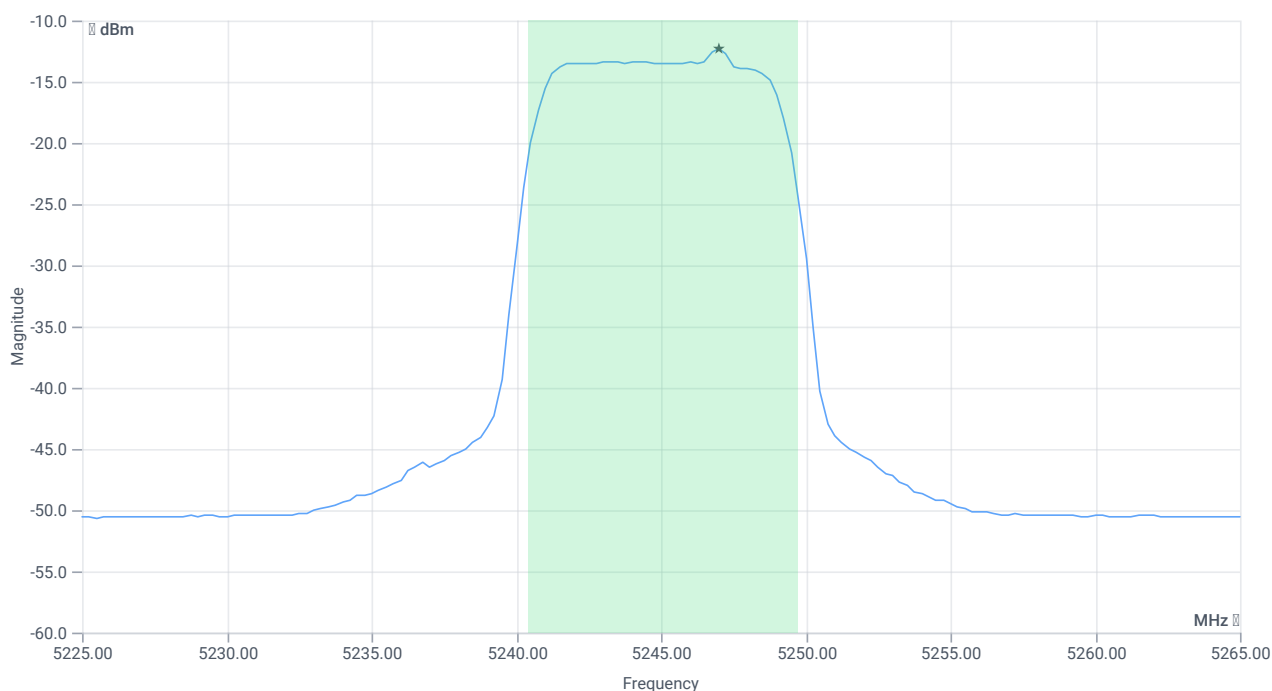
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.28	MHz	INFO
T1 26dB	---	---	5240.4400	MHz	INFO
T2 26dB	---	---	5249.7200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.25 5.71 30
Start [MHz] Stop [MHz]	5225.000 5265.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	2000 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-4.59	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	-4.59	dBm	PASS
LIMIT: 11 dBm + 10 log 9.28					
Max output power DC corrected cond	---	N/A	-4.59	dBm	N/A

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-12.32	dBm/MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-12.32	dBm/MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:51:34
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5245
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5245 MHz

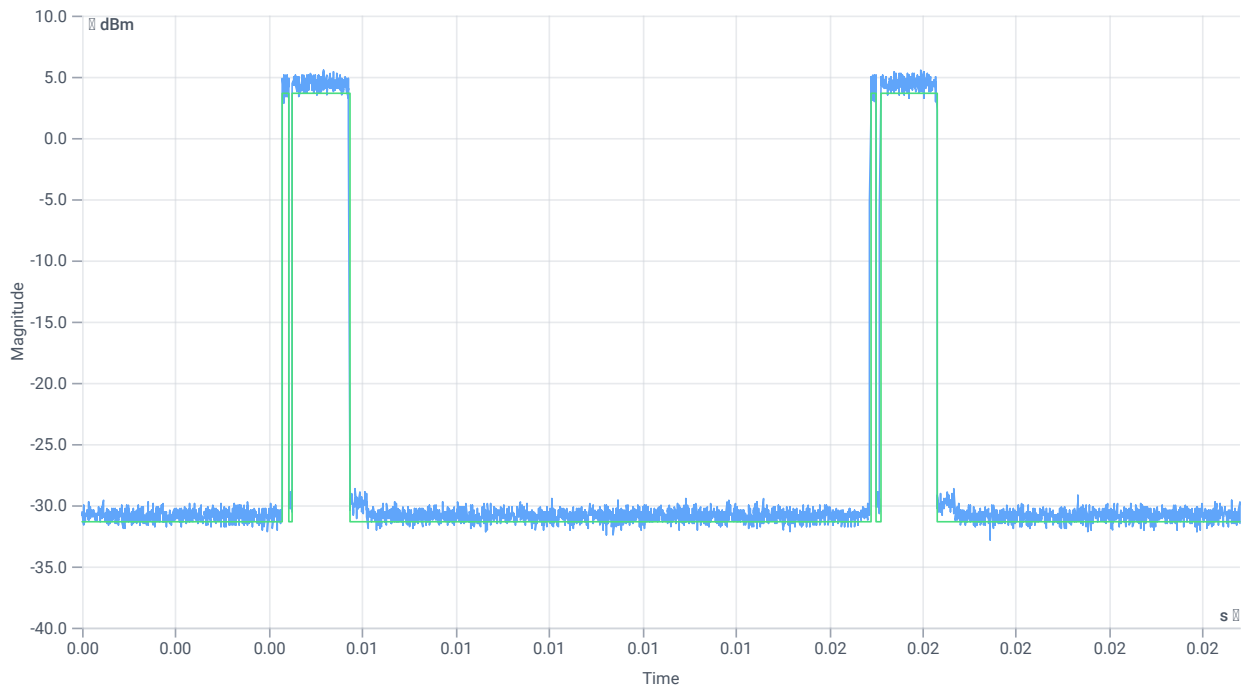
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.19	dBm	INFO
Ref. frequency	---	---	5244.400	MHz	INFO

Evaluation max. duty cycle

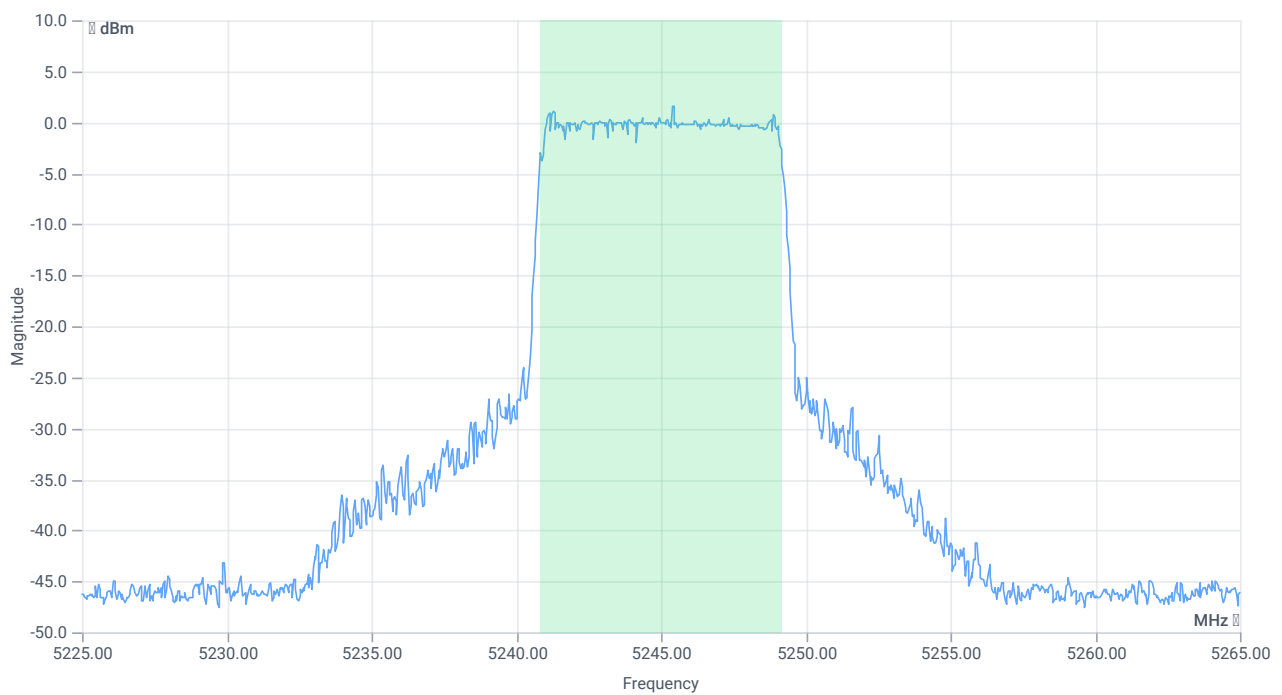
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	3.61	dBm	INFO
Estimated noise floor	---	---	-31.39	dBm	INFO
Dynamic range (ON - noise)	---	---	35	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	---	---	5240.8042	MHz	INFO
T2 99%	---	---	5249.1958	MHz	INFO

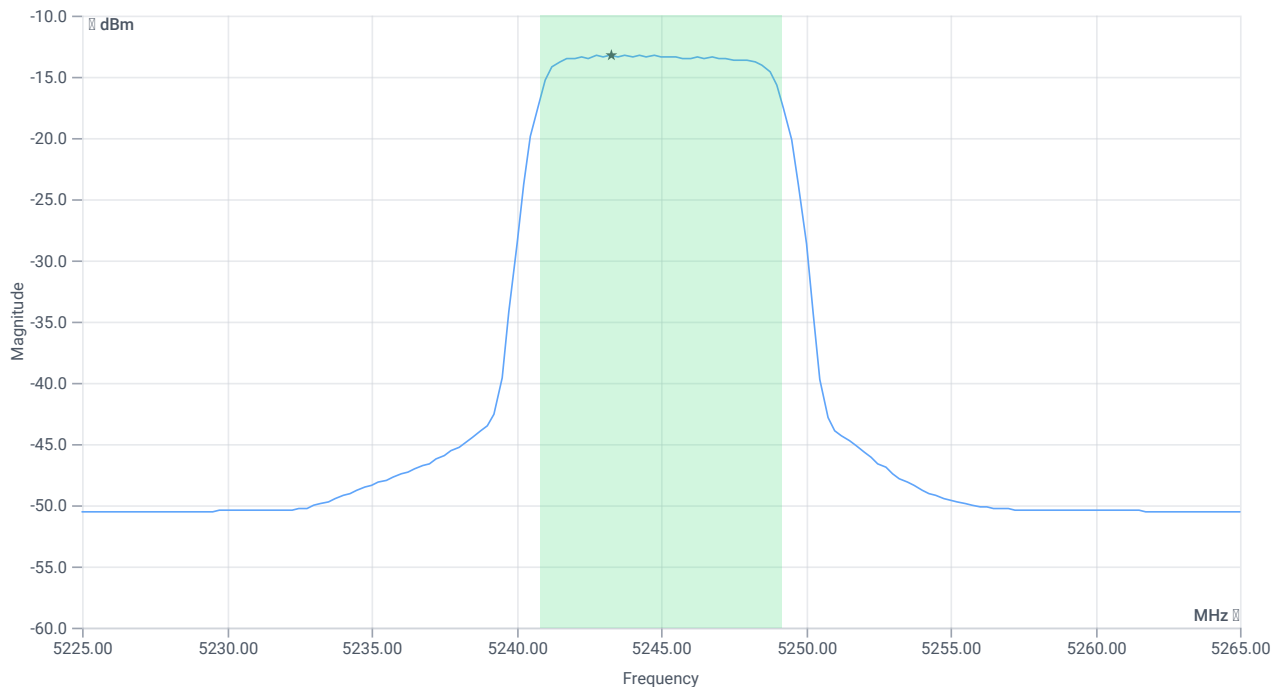
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 6.8 @ 5245 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.19 5.71 30
Start [MHz] Stop [MHz]	5225.000 5265.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-4.72	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Max output power DC corrected cond	---	---	5.36	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	12.16	dBm	PASS
LIMIT: 10 dBm + 10 log 8.392					
Max output power DC corrected eirp	---	19.24	12.16	dBm	PASS
Power spectral density eirp	---		-6.46	dBm/MHz	INFO
Power spectral density DC corrected eirp	---	10	3.62	dBm/MHz	PASS
LIMIT absolute cond (RSS-247 §6.2.1)					
Max output power DC corrected cond	---	24	5.36	dBm	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:53:08
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-1
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5245
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

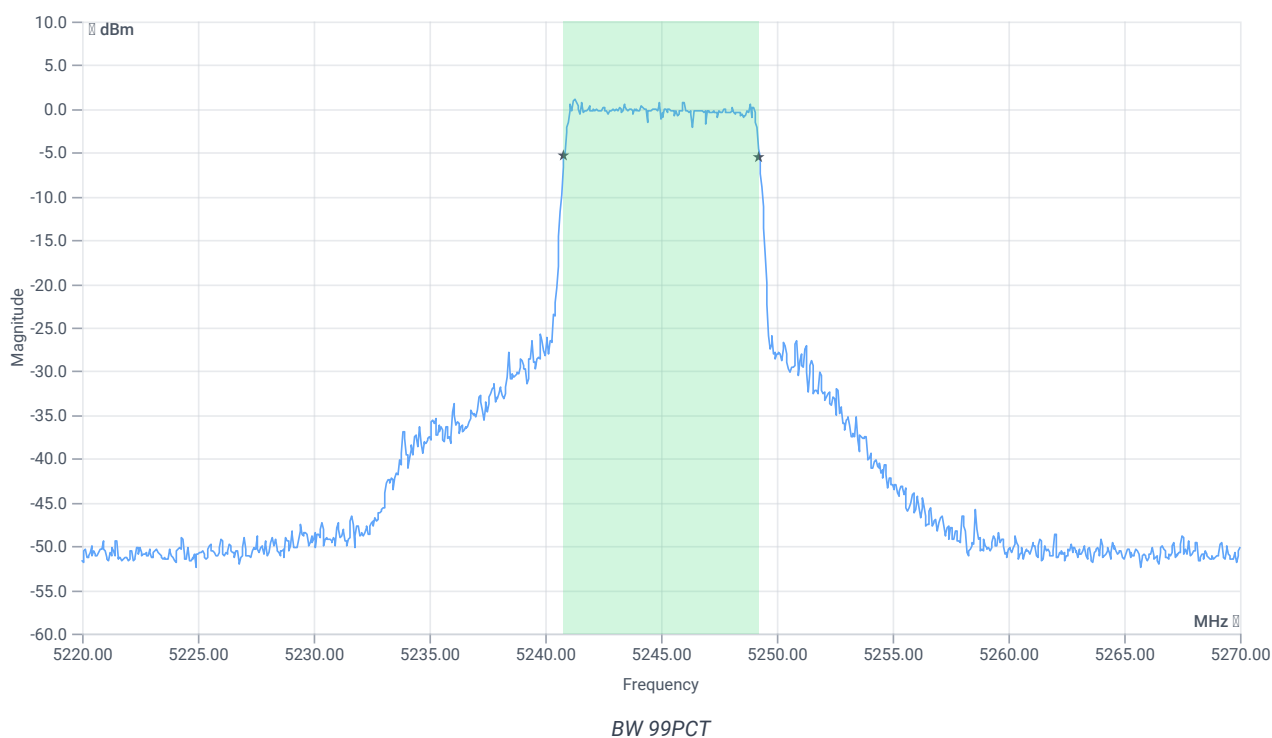
Test at TX 5245 MHz

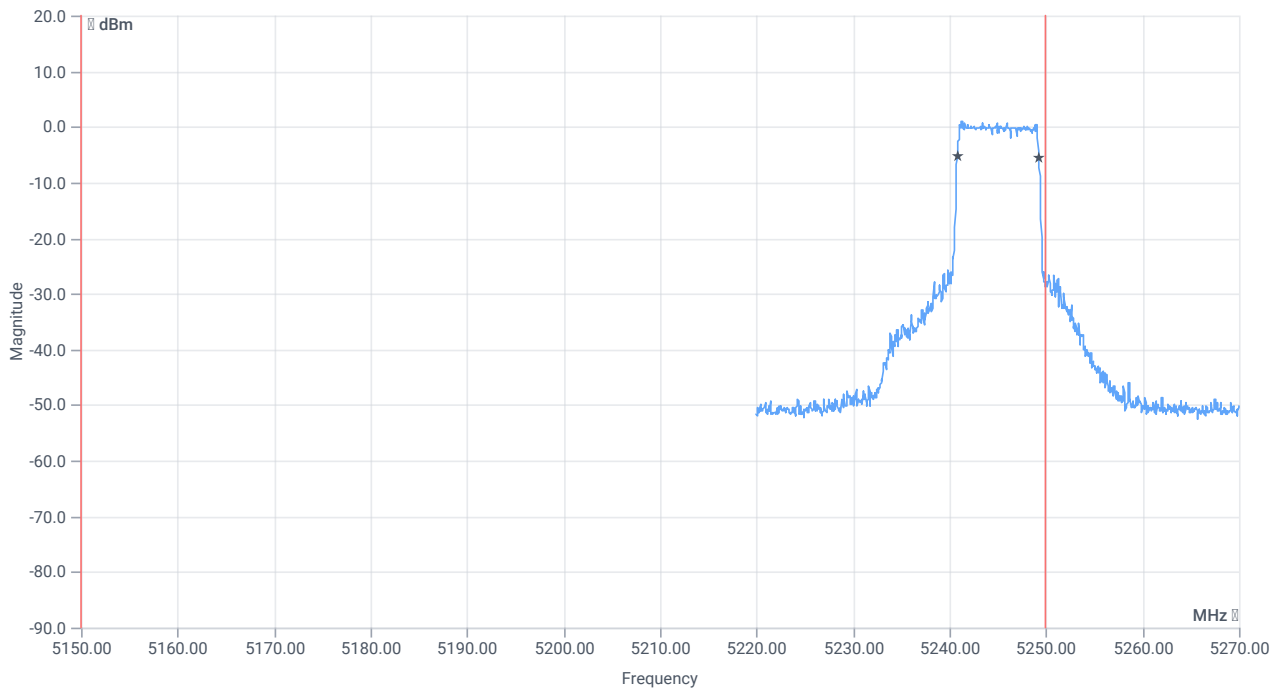
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.21	dBm	INFO
Ref. frequency	---	---	5241.600	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.21 5.71 25
Start [MHz] Stop [MHz]	5220.000 5270.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

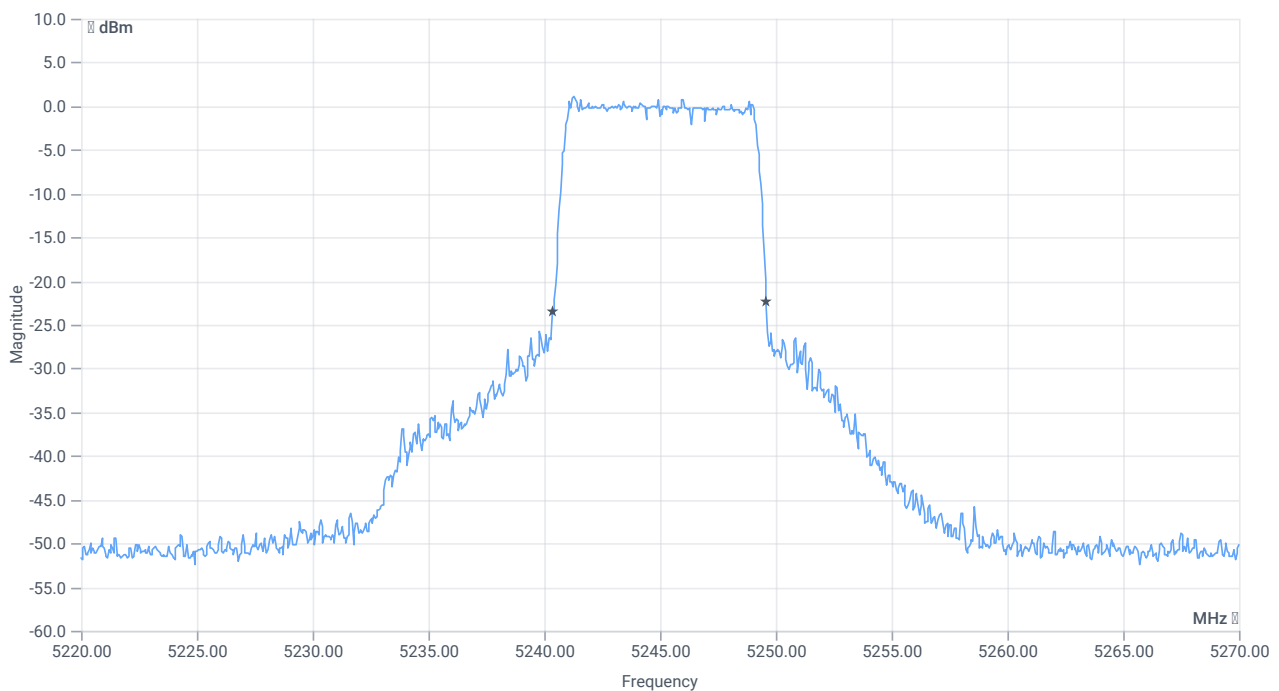




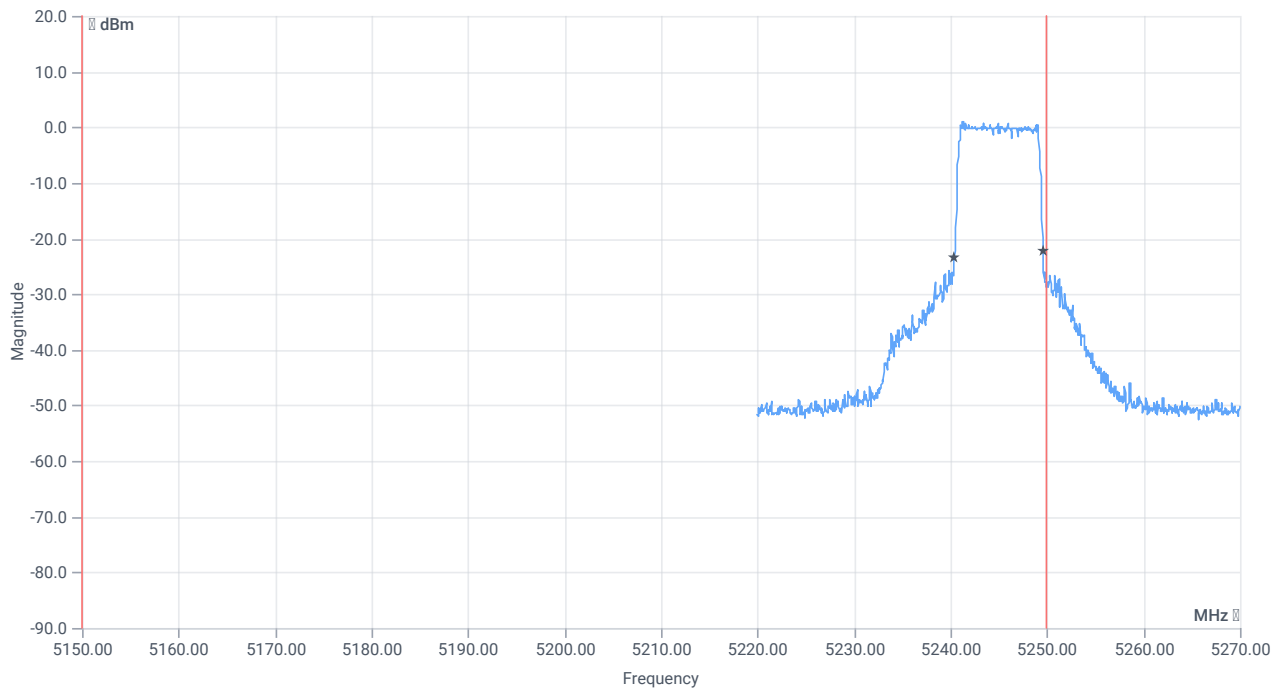
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.442	MHz	INFO
T1 99%	5150.000000	---	5240.8042	MHz	PASS
T2 99%	---	5250.000000	5249.2458	MHz	PASS



BW 26dB



BW within band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.25	MHz	INFO
T1 26dB	5150.000000	---	5240.3500	MHz	PASS
T2 26dB	---	5250.000000	5249.6000	MHz	PASS

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:18:14
Ambit temp (test rack) [°C] humidity [rel%]	26.1 43
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-3
Information	Ant 136

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110
Message start	20.08.2026 11:18:16
Message	set WLAN5Gx to a_U-NII-3 Frequency [MHz]: 5745 Power setting: 4 Port: EUT1 Ant 136

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:18:24
Ambit temp (test rack) [°C] humidity [rel%]	26.1 43
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5730 MHz

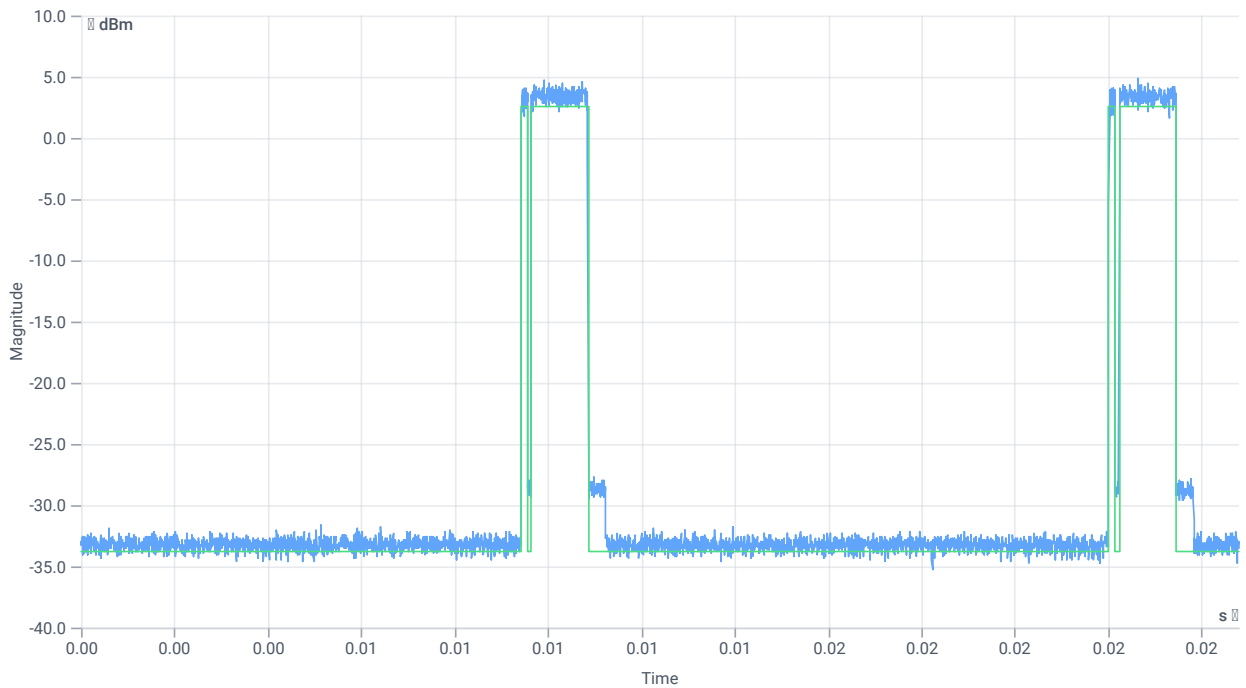
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.08	dBm	INFO
Ref. frequency	---	---	5730.600	MHz	INFO

Evaluation max. duty cycle

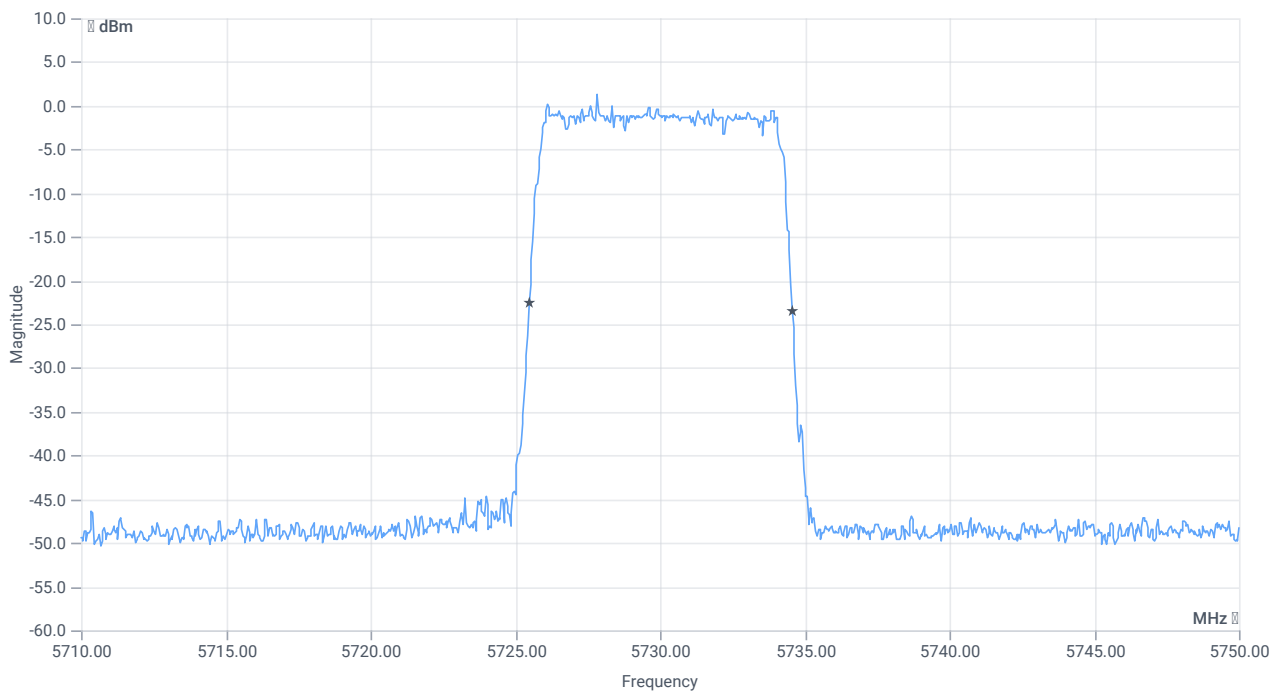
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	2.56	dBm	INFO
Estimated noise floor	---	---	-33.79	dBm	INFO
Dynamic range (ON - noise)	---	---	36.36	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

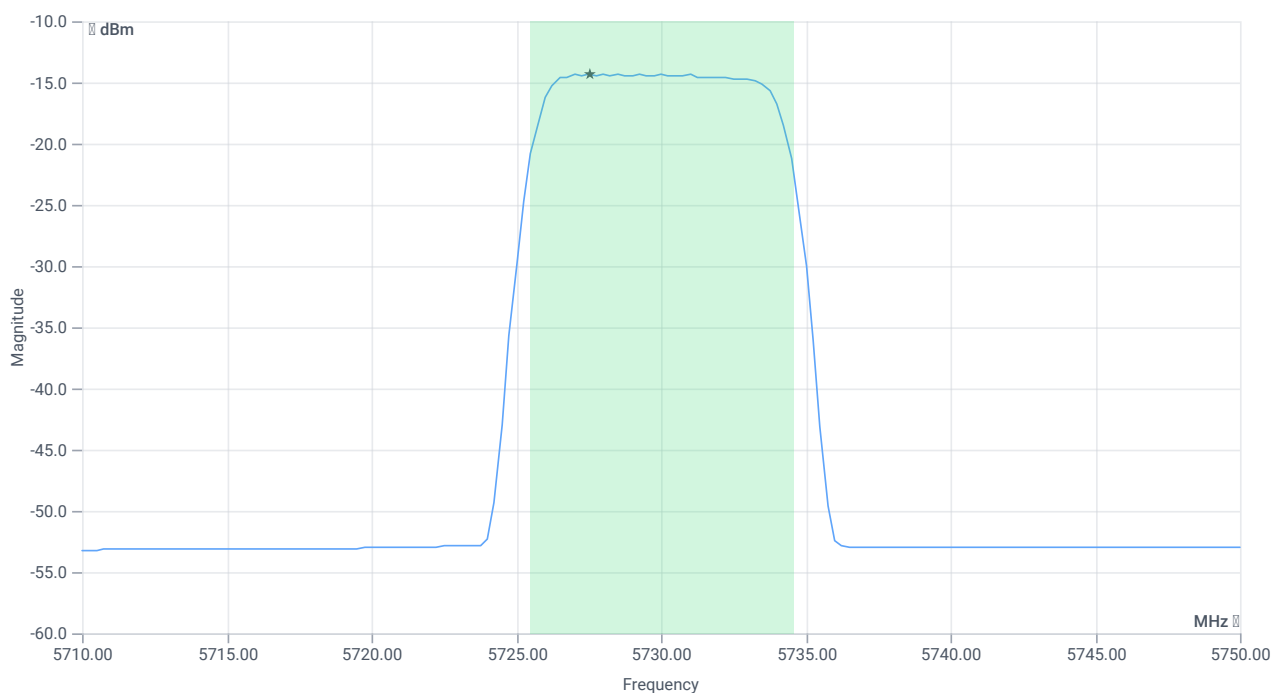
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.08	MHz	INFO
T1 26dB	---	---	5725.4800	MHz	INFO
T2 26dB	---	---	5734.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.08 6.12 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-5.65	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	30	4.43	dBm	PASS
---	----	------	-----	------

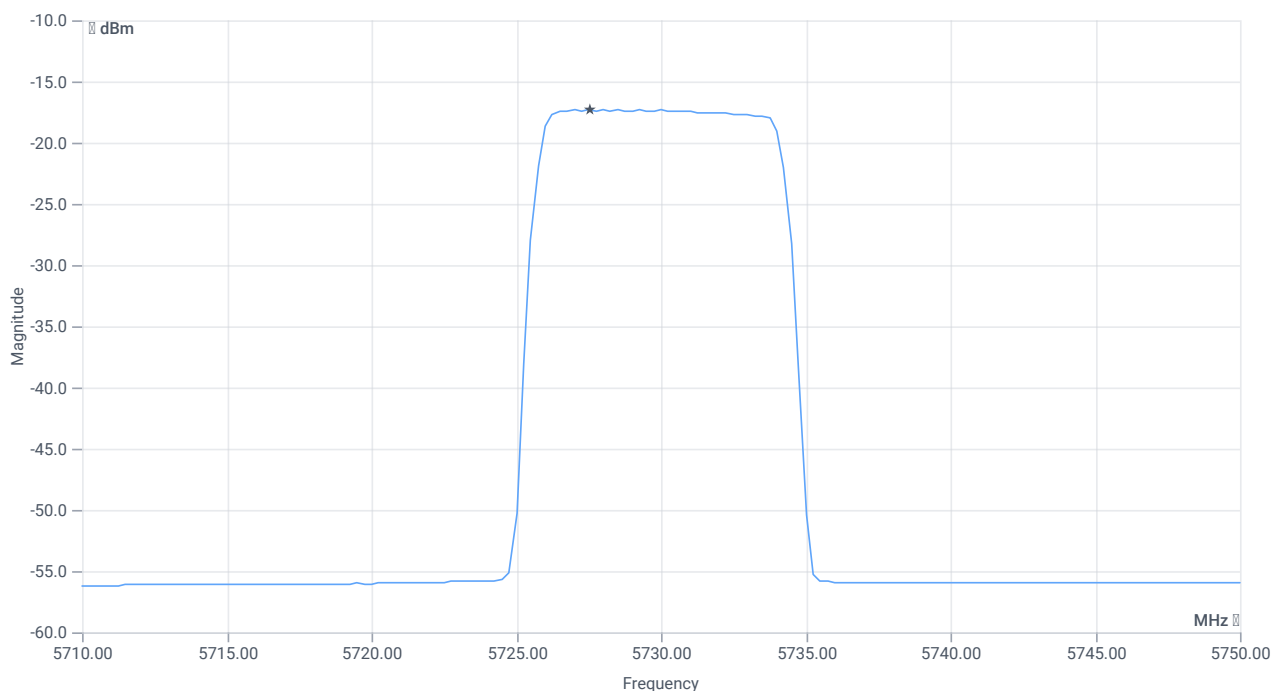
LIMIT: 11 dBm + 10 log 9.08

Max output power DC --- corrected cond	N/A	4.43	dBm	N/A
---	-----	------	-----	-----

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.08 6.12 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-17.28	dBm/0.5MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Power spectral density DC corrected cond	--	30	-7.2	dBm/0.5MHz	PASS
--	----	----	------	------------	------

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:21:03
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5730 MHz

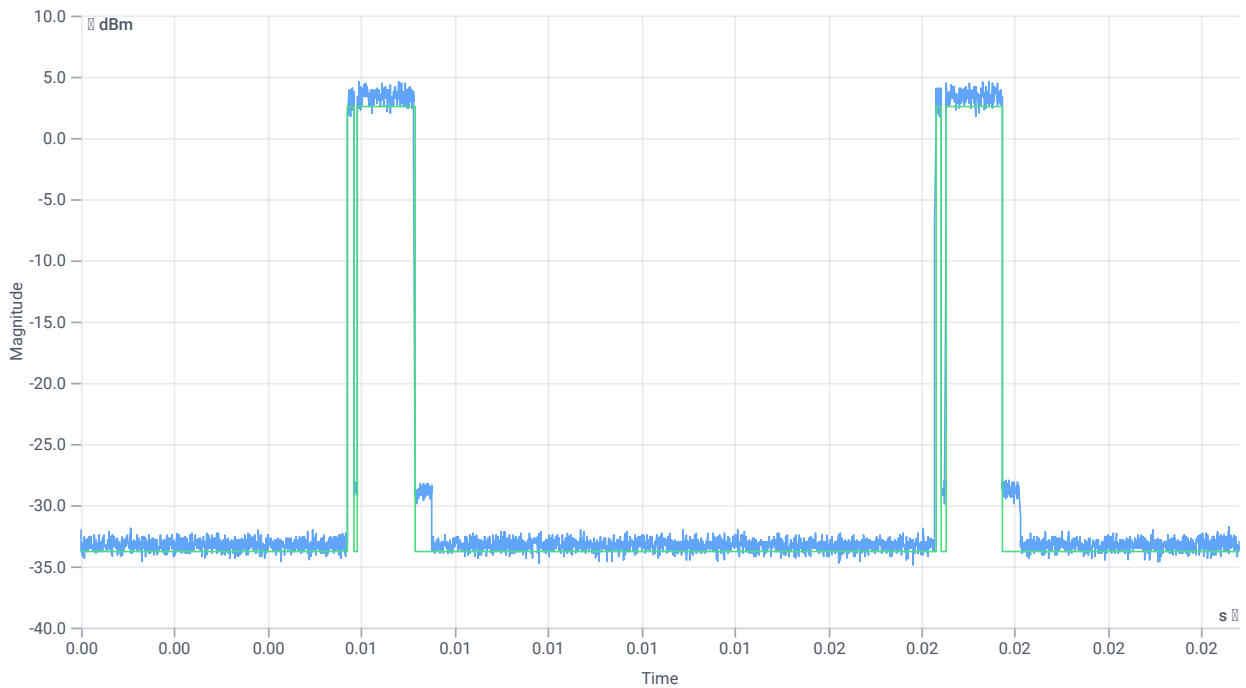
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.05	dBm	INFO
Ref. frequency	---	---	5729.400	MHz	INFO

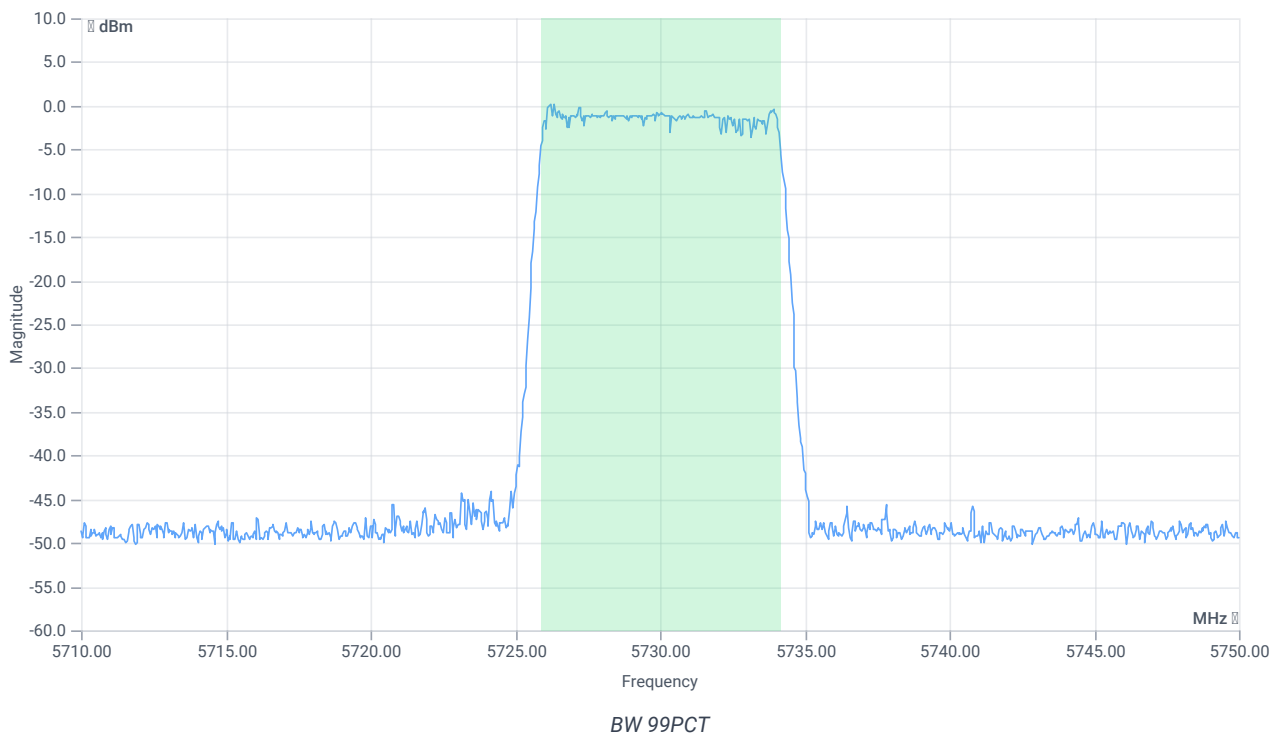
Evaluation max. duty cycle

DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	2.51	dBm	INFO
Estimated noise floor	---	---	-33.79	dBm	INFO
Dynamic range (ON - noise)	---	---	36.3	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.312	MHz	INFO
T1 99%	---	---	5725.8841	MHz	INFO
T2 99%	---	---	5734.1958	MHz	INFO

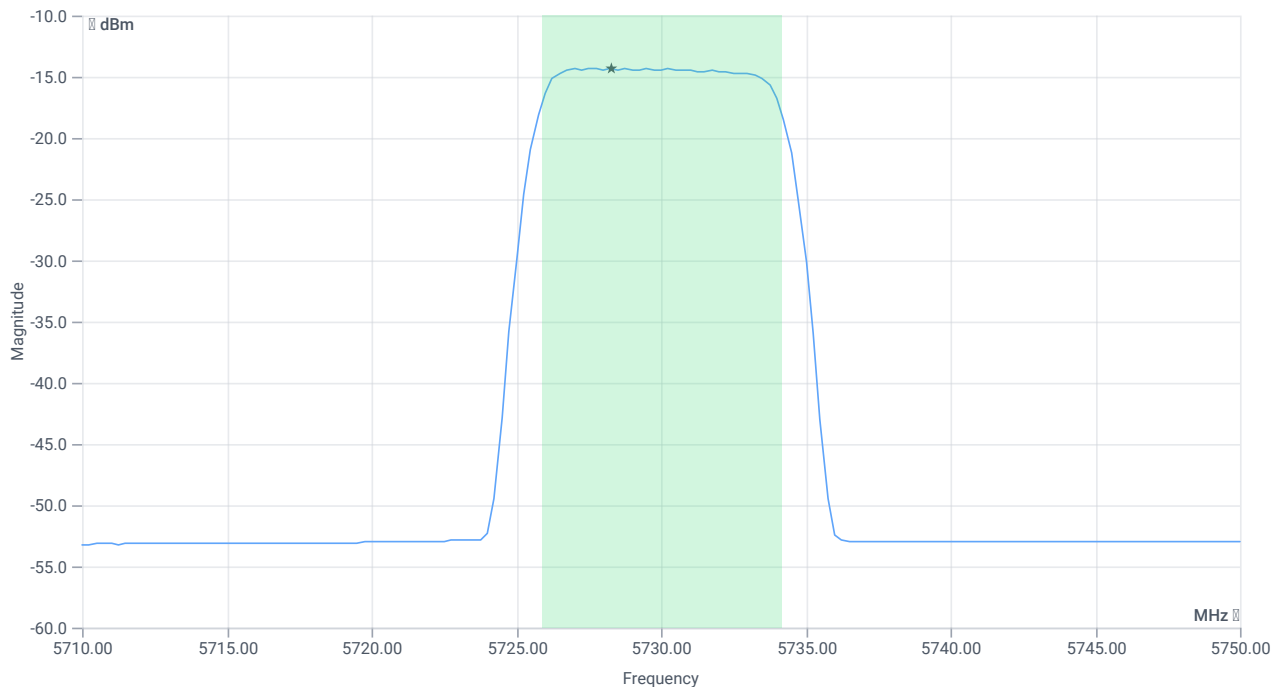
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 5.8 @ 5730 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.05 6.12 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

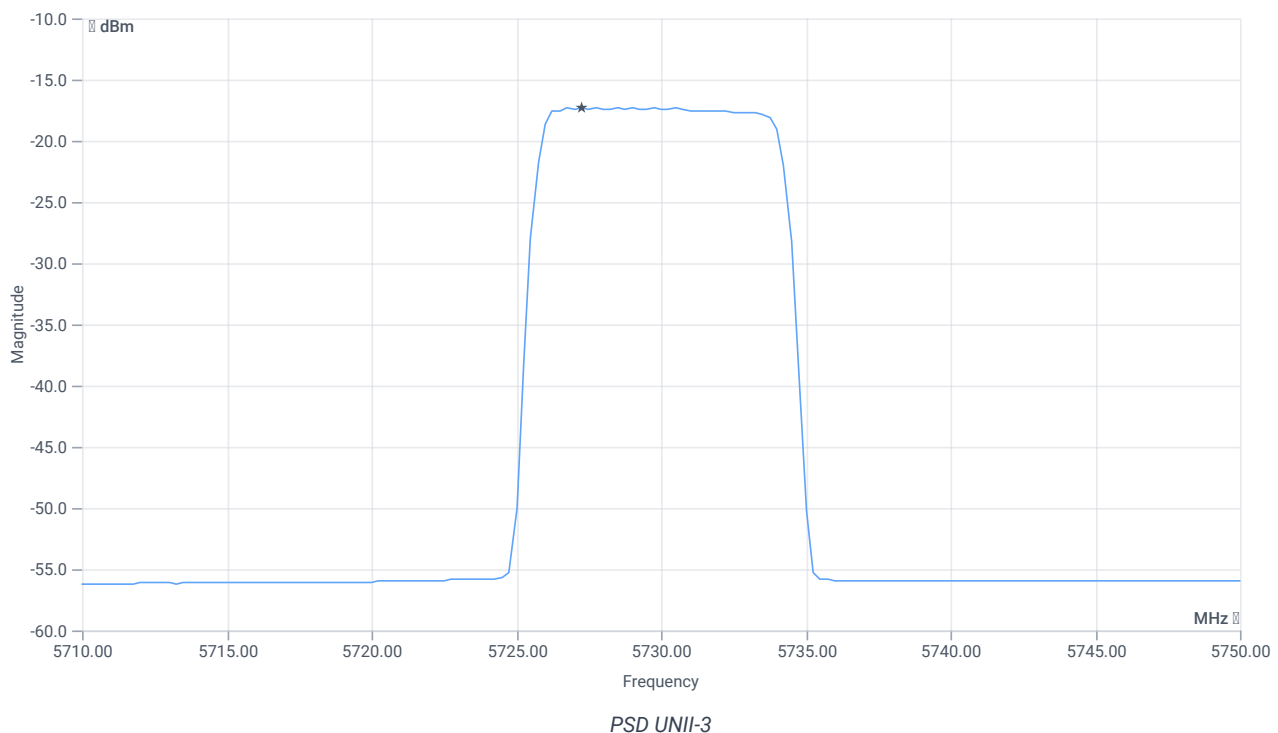
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-5.78	dBm	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty cycle correction	---	---	10.08	dB	INFO
LIMIT absolute cond					
Max output power DC corrected cond	---	30	4.3	dBm	PASS
Antenna gain applied			5.8	dBi	INFO
LIMIT absolute eirp (RSS-247 §6.2.4)					
Max output power DC corrected eirp	---	36	10.1	dBm	PASS

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.05 6.12 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density cond	---		-17.29	dBm/0.5MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density DC corrected cond	--	30	-7.21	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:23:44
Ambit temp (test rack) [°C] humidity [rel%]	26.2 42
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5730 MHz

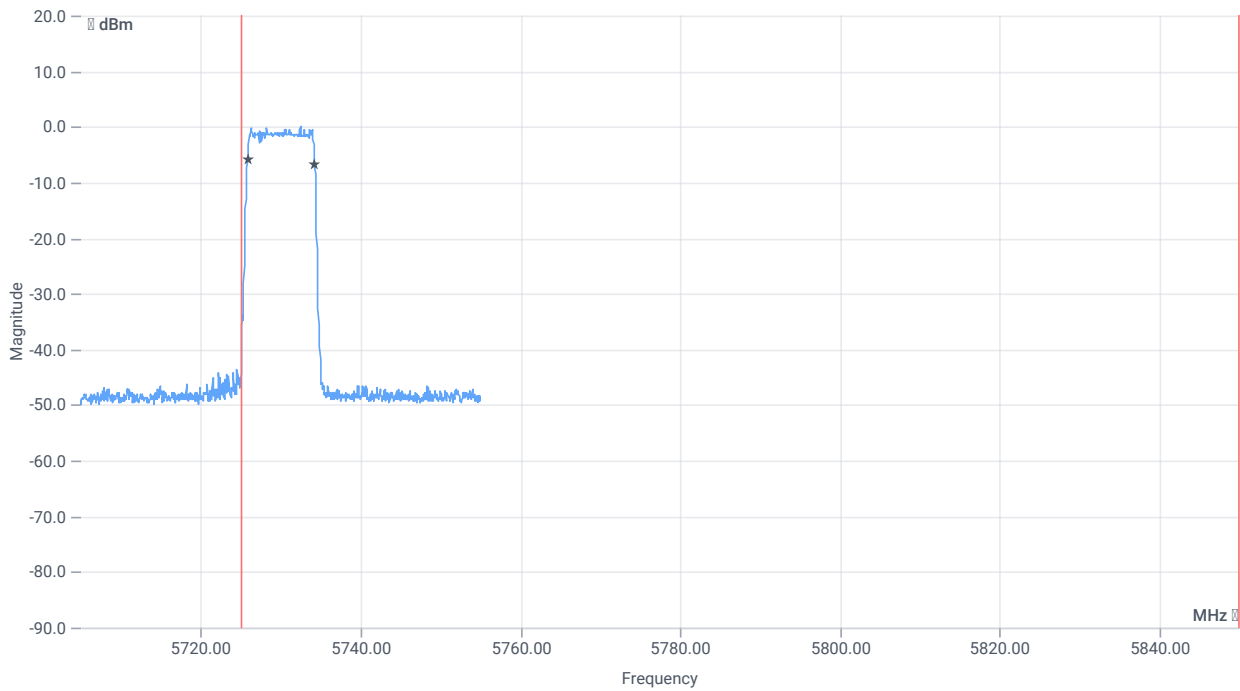
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.04	dBm	INFO
Ref. frequency	---	---	5730.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.04 6.12 25
Start [MHz] Stop [MHz]	5705.000 5755.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

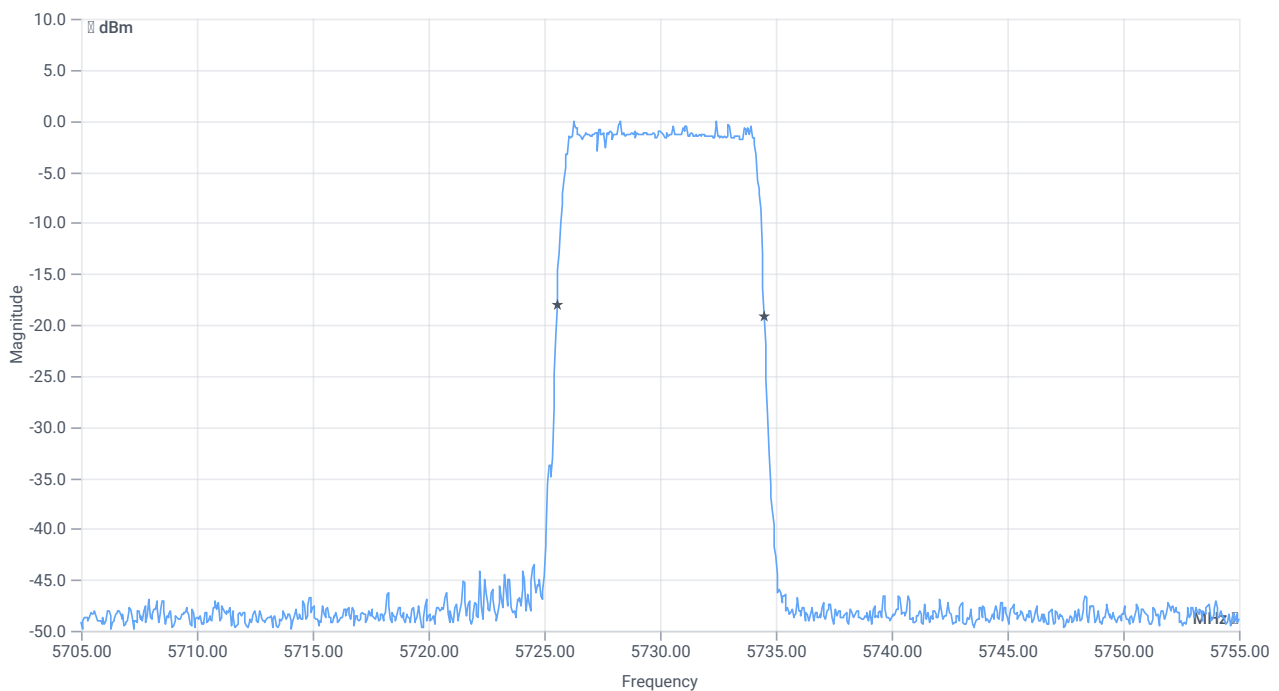




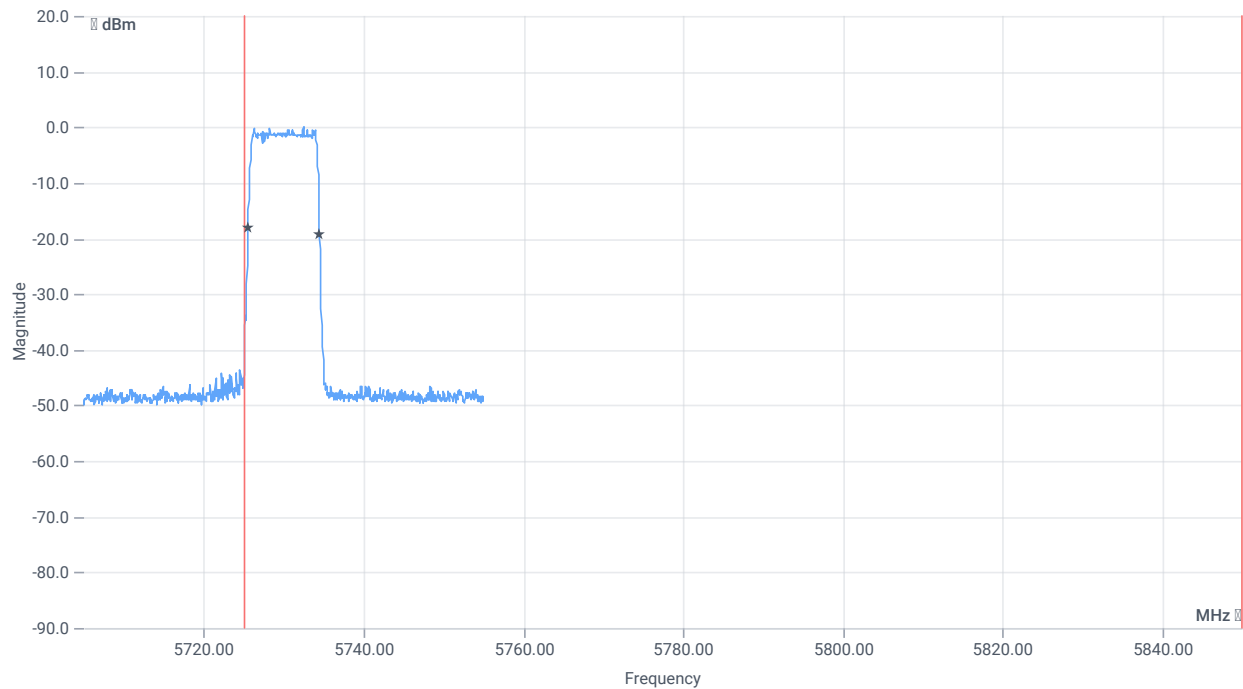
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5725.000000	---	5725.8541	MHz	PASS
T2 99%	---	5850.000000	5734.2458	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	8.95	MHz	INFO
T1 20dB	5725.000000	---	5725.5500	MHz	PASS
T2 20dB	---	5850.000000	5734.5000	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:24:15
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min emission BW - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

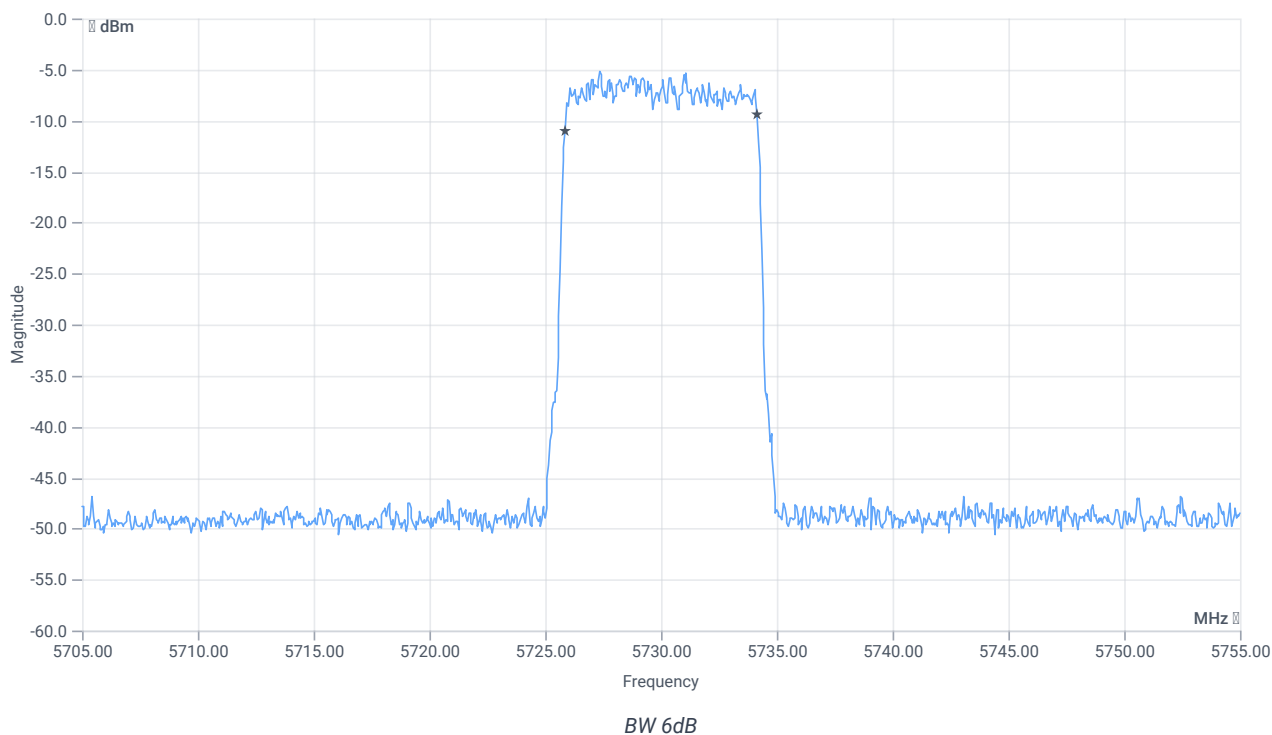
Test at TX 5730 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.46	dBm	INFO
Ref. frequency	---	---	5727.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.46 6.12 30
Start [MHz] Stop [MHz]	5705.000 5755.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	8.3	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:24:59
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5730 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

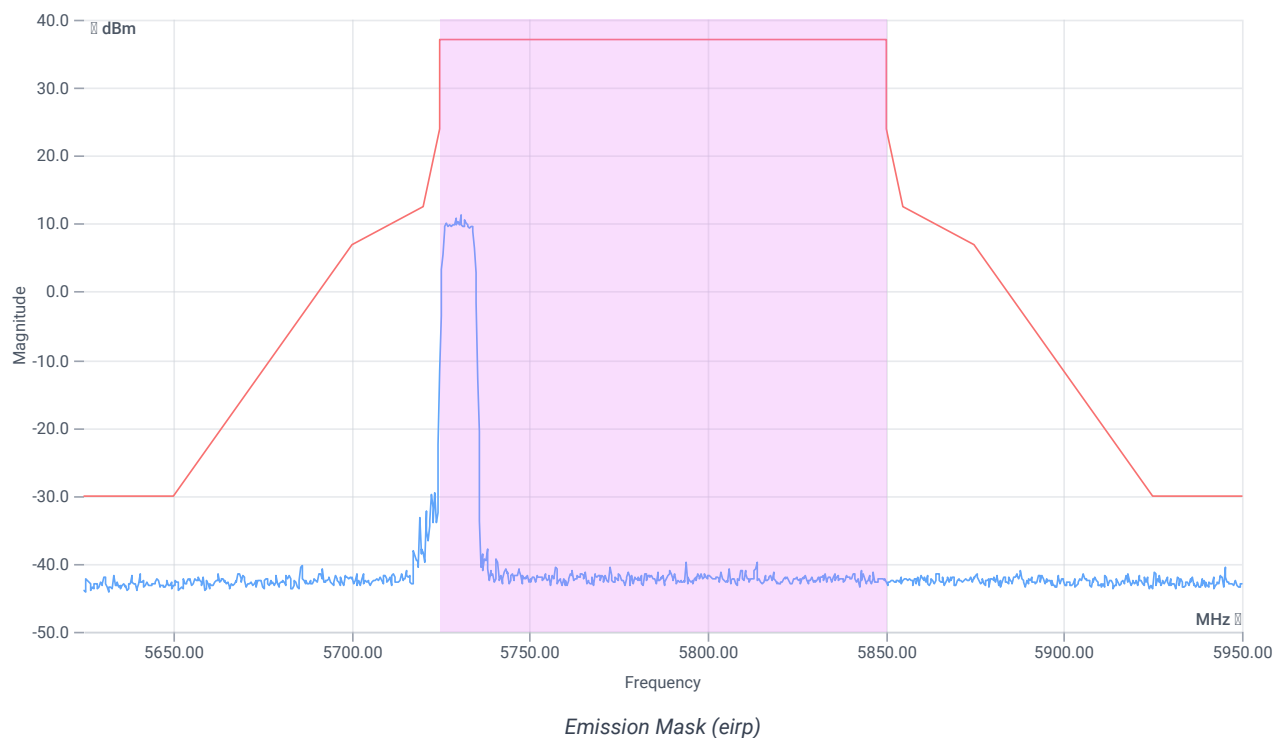
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.16	dBm	INFO
Ref. frequency	---	---	5730.200	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	5.8 / max found in range 5625 to 5950 MHz
--------------------------------	---

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.16 6.12 20
Start [MHz] Stop [MHz]	5625.000 5950.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
cetecom advanced GmbH Untertürkheimer Str. 6-10, 66117 Saarbrücken					Document No. 1-3399-26-02-03_TR1-A201-R01 Release 1 - Page 69 of 223

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:25:35
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-3
Information	Ant 136

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110
Message start	20.08.2026 11:25:37
Message	set WLAN5Gx to a_U-NII-3 Frequency [MHz]: 5785 Power setting: 4 Port: EUT1 Ant 136

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:26:44
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5775
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5775 MHz

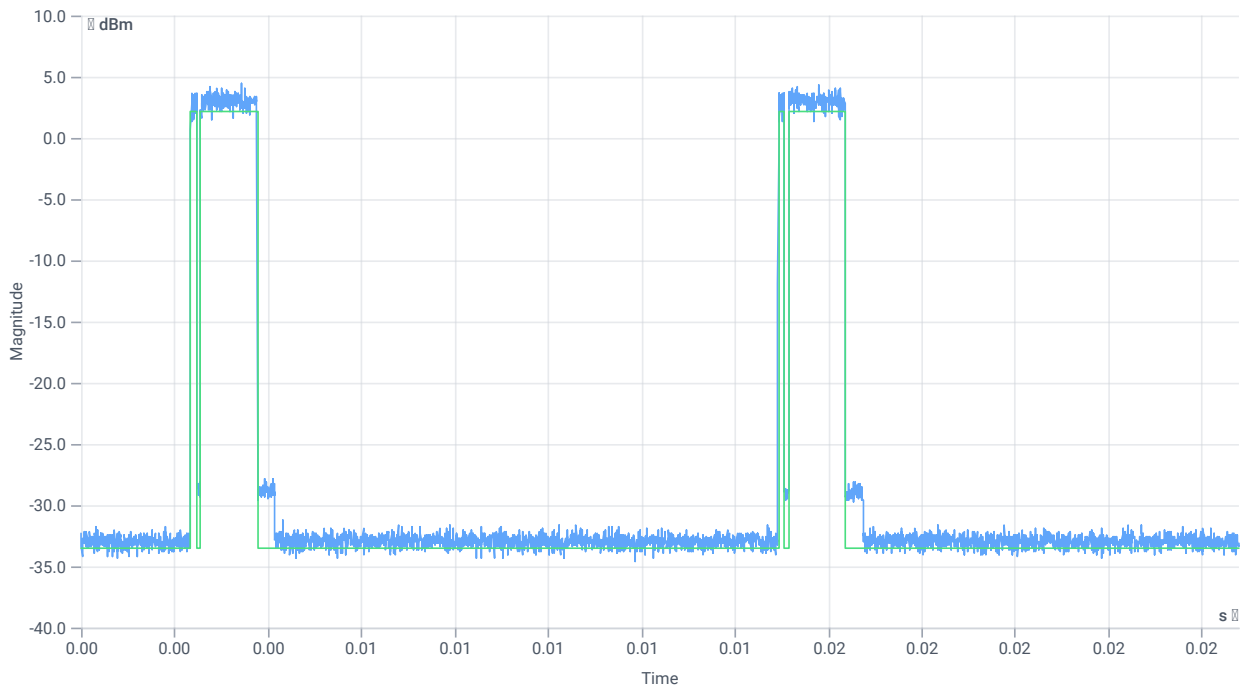
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.56	dBm	INFO
Ref. frequency	---	---	5776.800	MHz	INFO

Evaluation max. duty cycle

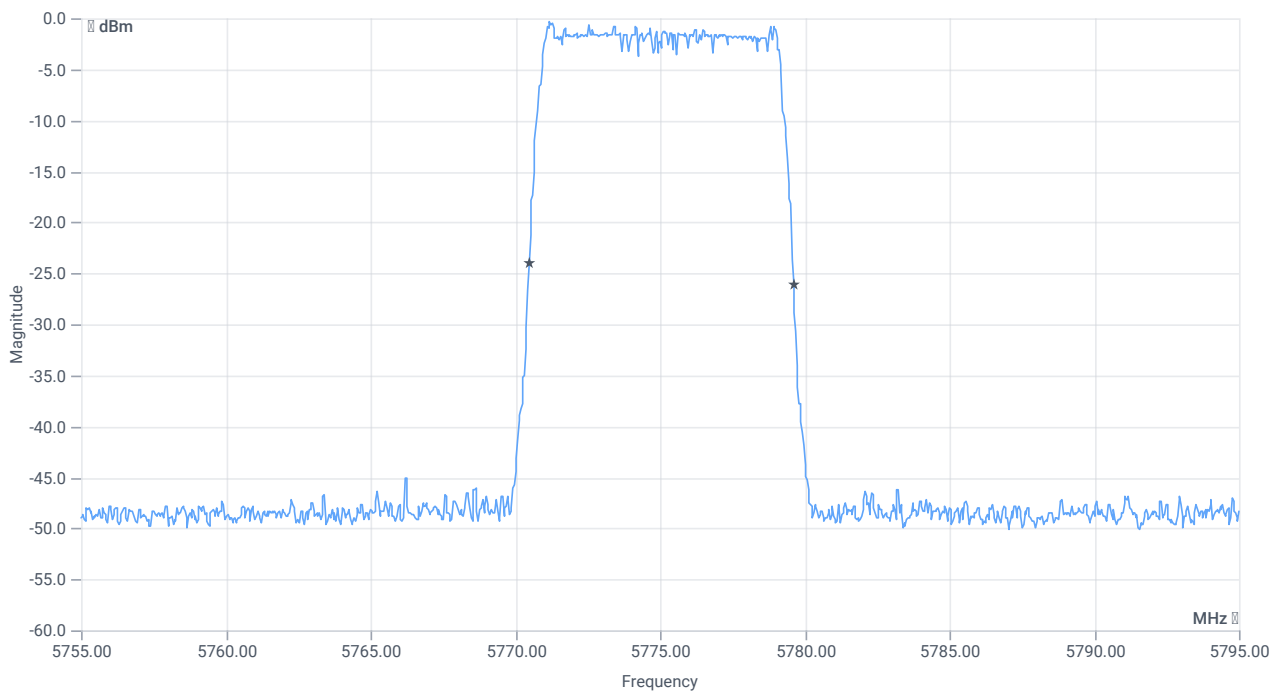
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	2.16	dBm	INFO
Estimated noise floor	---	---	-33.5	dBm	INFO
Dynamic range (ON - noise)	---	---	35.66	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6471	---	INFO
Duty cycle max	---	---	1.89	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

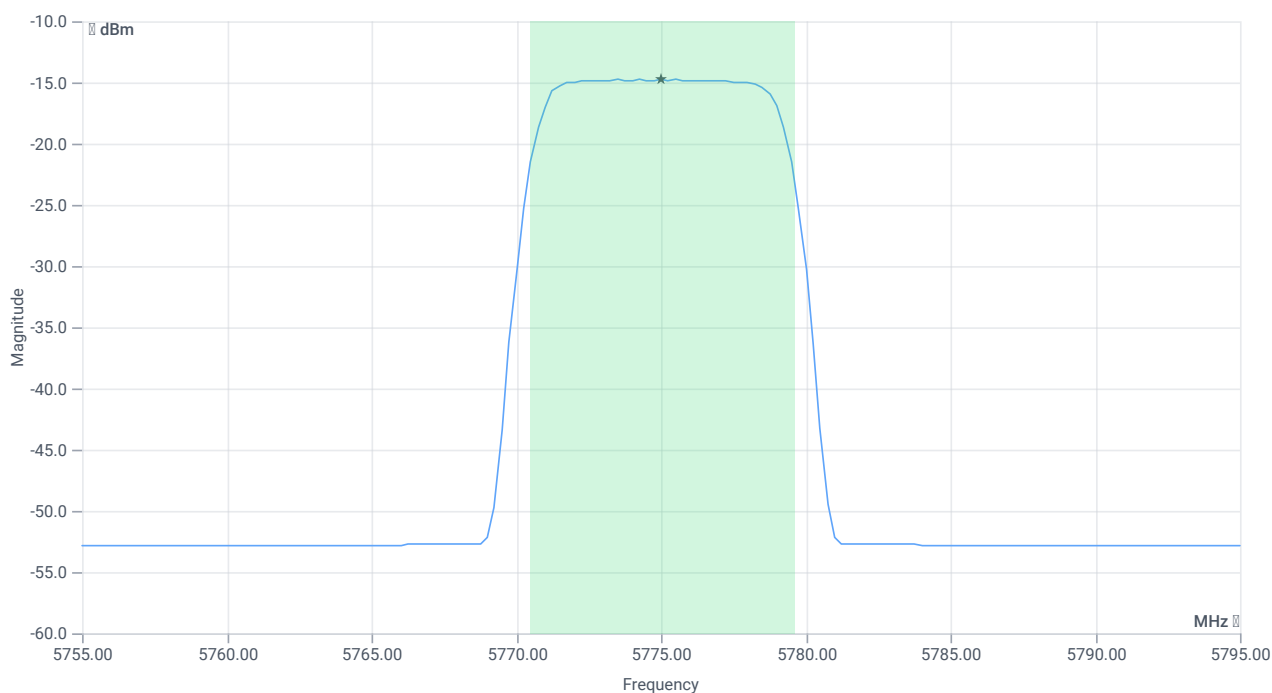
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.12	MHz	INFO
T1 26dB	---	---	5770.4800	MHz	INFO
T2 26dB	---	---	5779.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.56 6.18 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-6.03	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

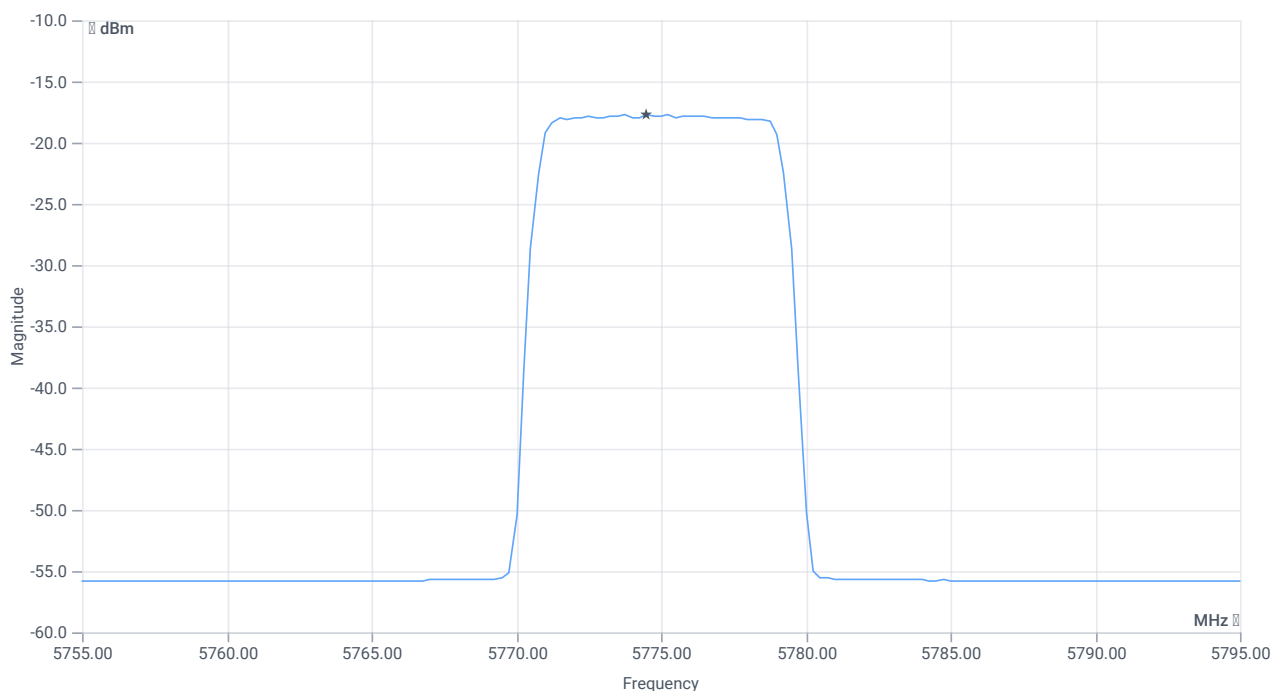
CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	30	4.05	dBm	PASS
LIMIT: 11 dBm + 10 log 9.12				
Max output power DC --- corrected cond	N/A	4.05	dBm	N/A

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.56 6.18 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-17.74	dBm/0.5MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Power spectral density DC corrected cond	--	30	-7.66	dBm/0.5MHz	PASS

Verdict
PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:29:24
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5775 MHz

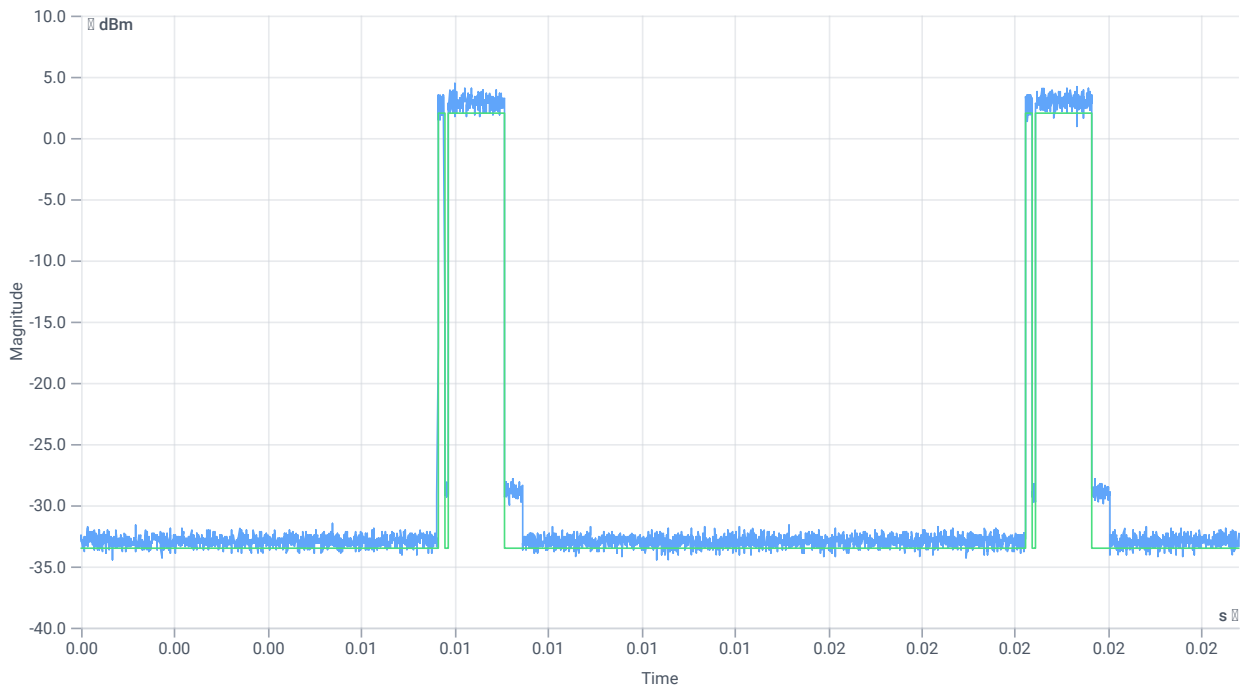
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.15	dBm	INFO
Ref. frequency	---	---	5771.800	MHz	INFO

Evaluation max. duty cycle

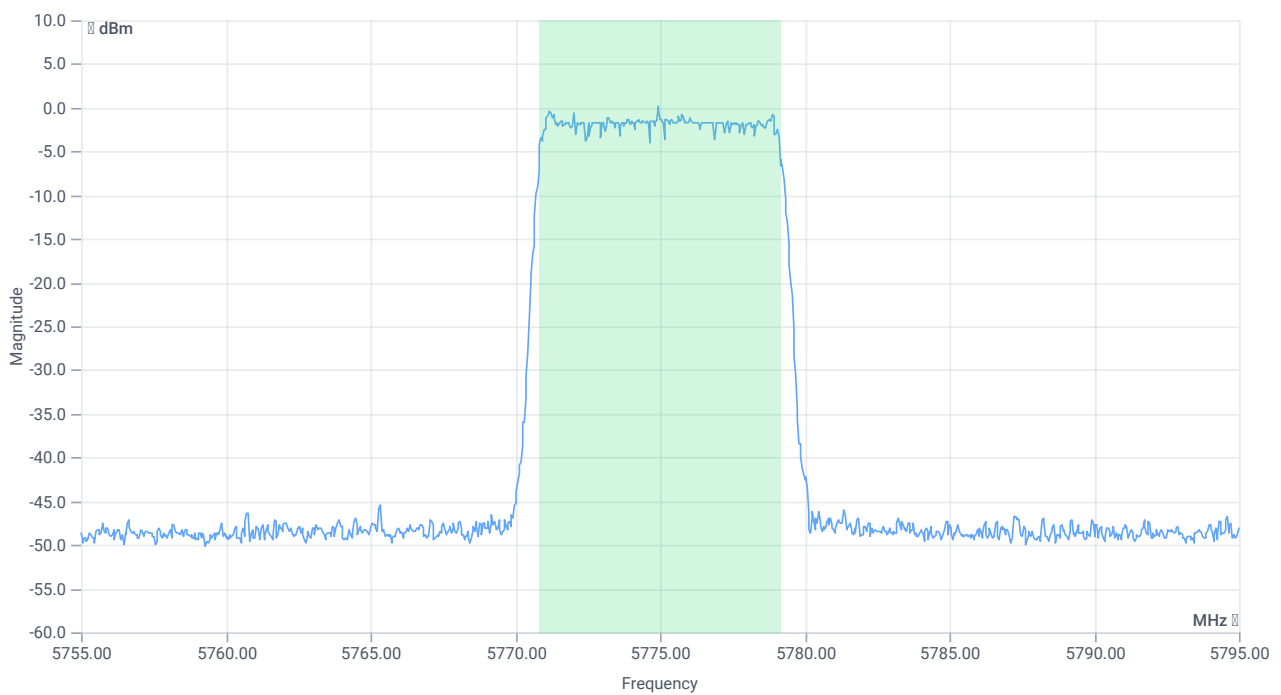
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	2.06	dBm	INFO
Estimated noise floor	---	---	-33.46	dBm	INFO
Dynamic range (ON - noise)	---	---	35.53	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.352	MHz	INFO
T1 99%	---	---	5770.8442	MHz	INFO
T2 99%	---	---	5779.1958	MHz	INFO

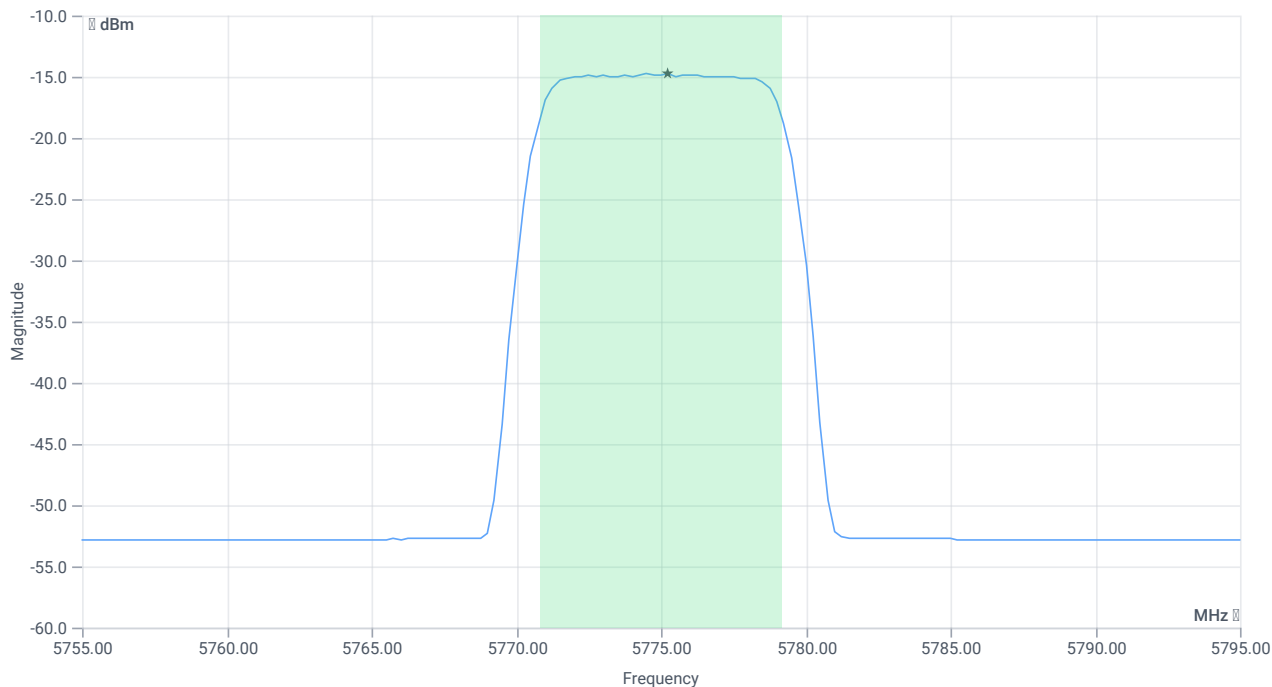
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 5.8 @ 5775 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.15 6.18 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

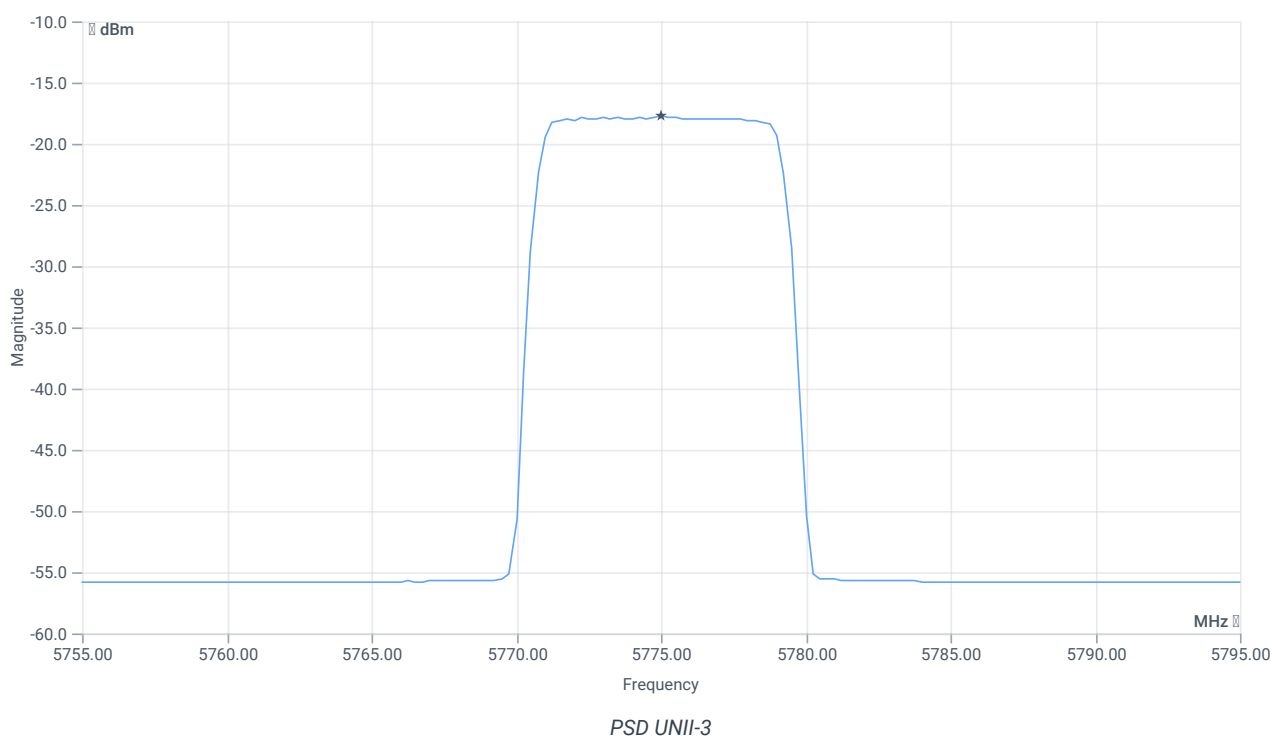
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-6.24	dBm	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty cycle correction	---	---	10.08	dB	INFO
LIMIT absolute cond					
Max output power DC corrected cond	---	30	3.84	dBm	PASS
Antenna gain applied			5.8	dBi	INFO
LIMIT absolute eirp (RSS-247 §6.2.4)					
Max output power DC corrected eirp	---	36	9.64	dBm	PASS

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.15 6.18 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density cond	---		-17.74	dBm/0.5MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density DC corrected cond	--	30	-7.66	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:32:03
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

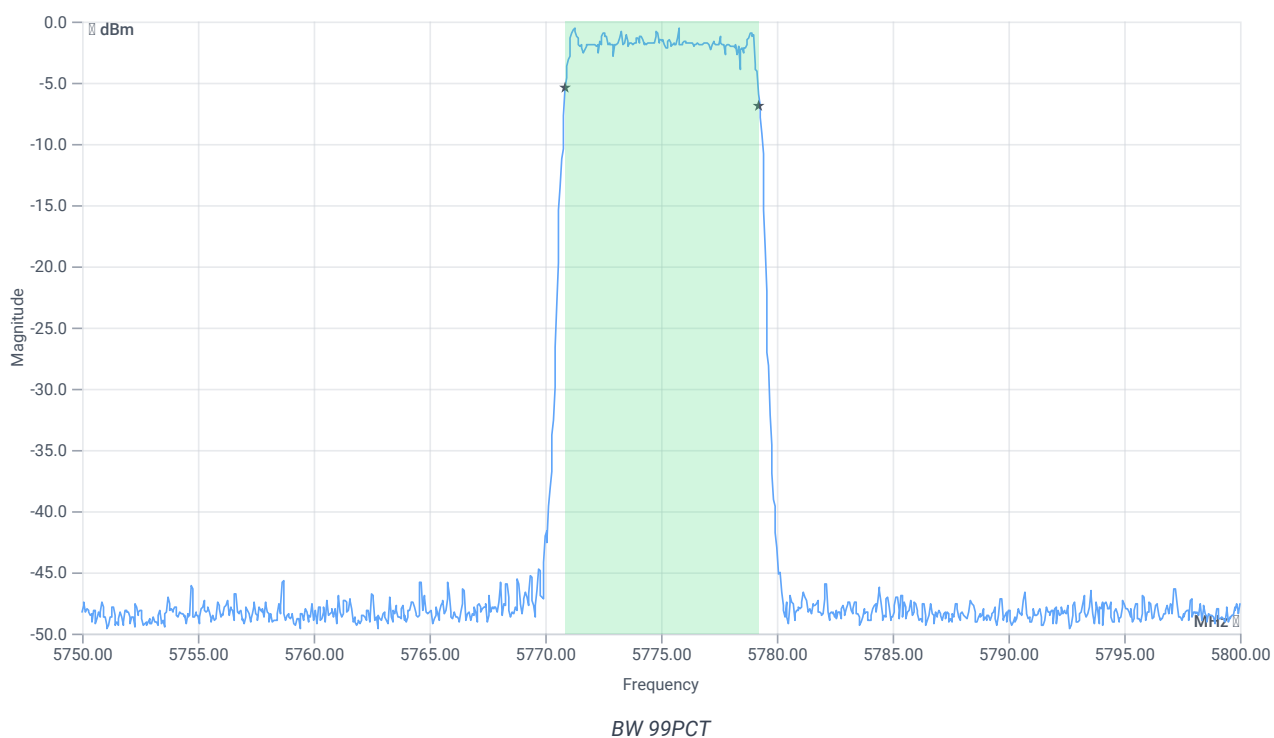
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.58	dBm	INFO
Ref. frequency	---	---	5776.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.58 6.18 25
Start [MHz] Stop [MHz]	5750.000 5800.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

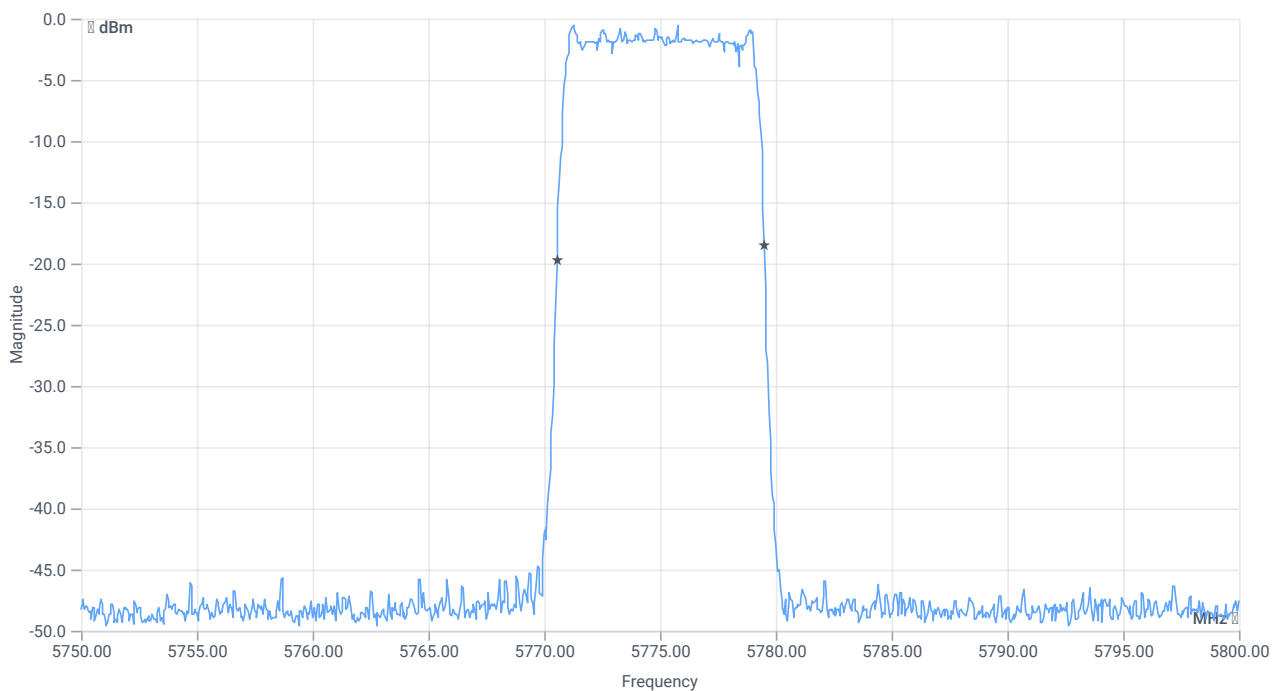




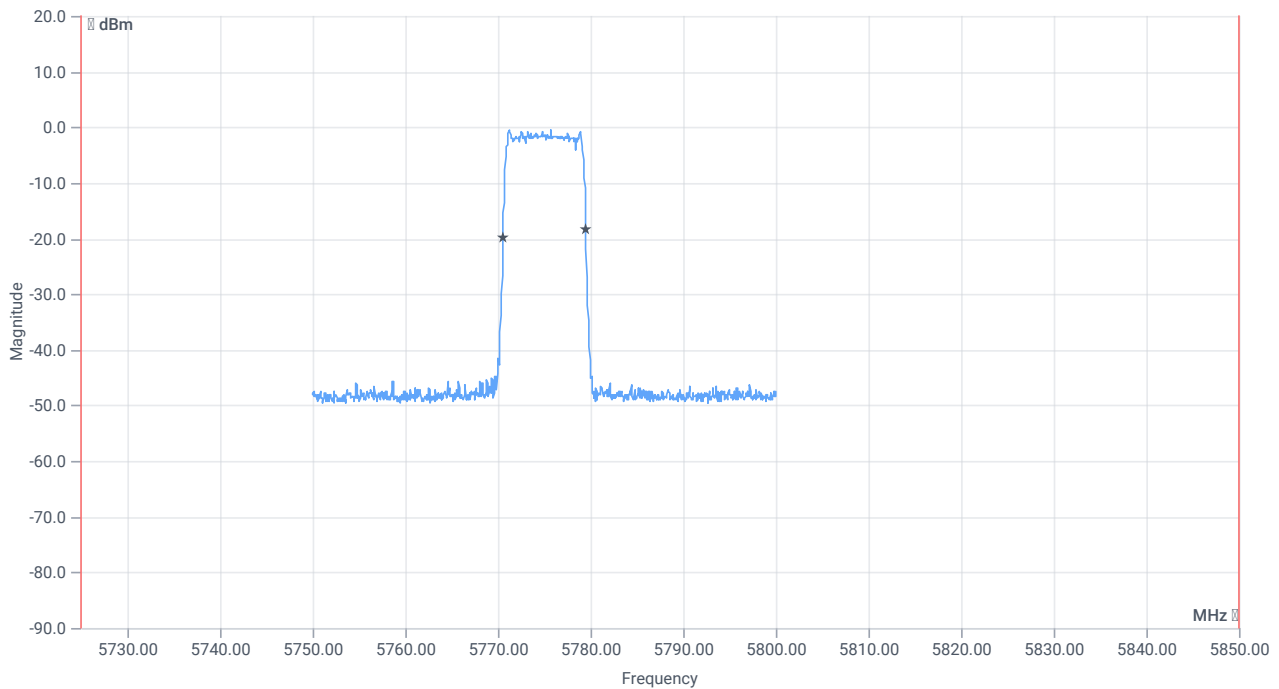
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5725.000000	---	5770.8541	MHz	PASS
T2 99%	---	5850.000000	5779.2458	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	8.95	MHz	INFO
T1 20dB	5725.000000	---	5770.5500	MHz	PASS
T2 20dB	---	5850.000000	5779.5000	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:32:34
Ambit temp (test rack) [°C] humidity [rel%]	26.1 42
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min emission BW - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

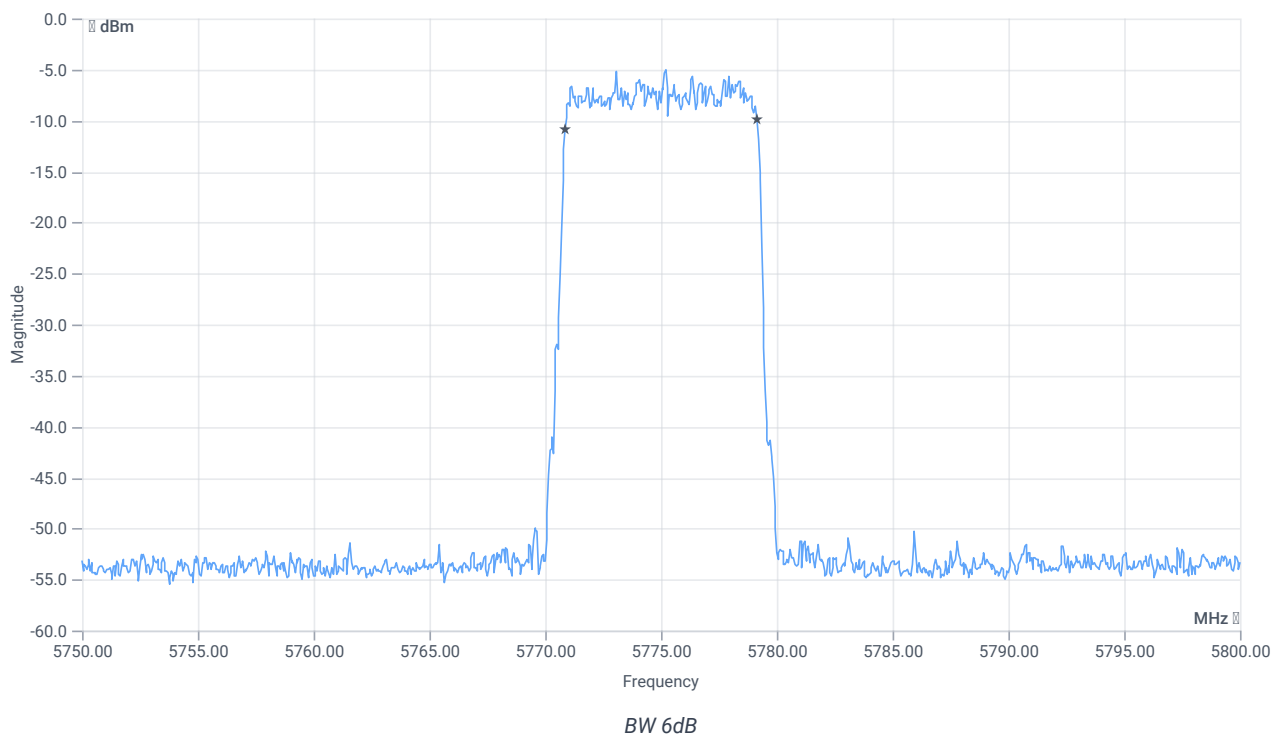
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.79	dBm	INFO
Ref. frequency	---	---	5778.600	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.79 6.18 25
Start [MHz] Stop [MHz]	5750.000 5800.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	8.3	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:33:25
Ambit temp (test rack) [°C] humidity [rel%]	26.2 41
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5775 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

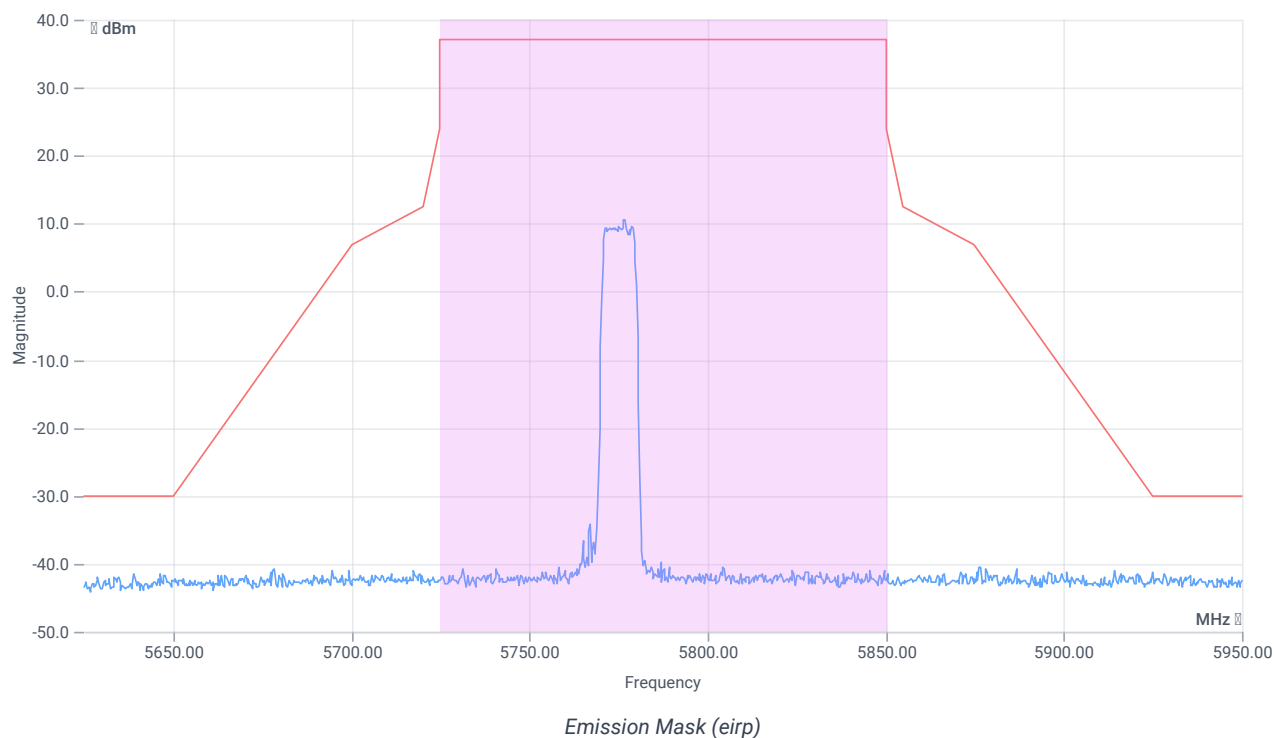
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.58	dBm	INFO
Ref. frequency	---	---	5777.200	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	5.8 / max found in range 5625 to 5950 MHz
--------------------------------	---

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.58 6.18 20
Start [MHz] Stop [MHz]	5625.000 5950.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
cetecom advanced GmbH Untertürkheimer Str. 6-10, 66117 Saarbrücken			Document No. 1-3399-26-02-03_TR1-A201-R01 Release 1 - Page 91 of 223		

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:34:01
Ambit temp (test rack) [°C] humidity [rel%]	26.1 41
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-3
Information	Ant 136

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110
Message start	20.08.2026 11:34:03
Message	set WLAN5Gx to a_U-NII-3 Frequency [MHz]: 5825 Power setting: 4 Port: EUT1 Ant 136

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:35:09
Ambit temp (test rack) [°C] humidity [rel%]	26.1 41
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5820 MHz

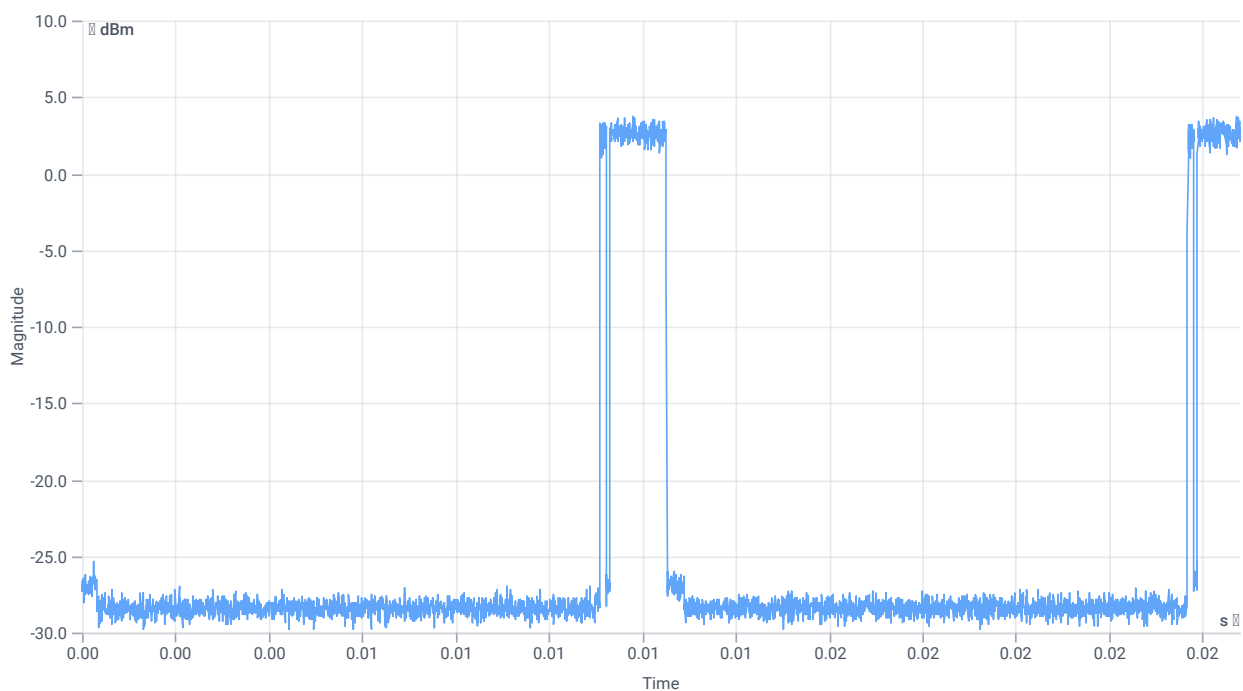
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.18	dBm	INFO
Ref. frequency	---	---	5821.600	MHz	INFO

Evaluation max. duty cycle

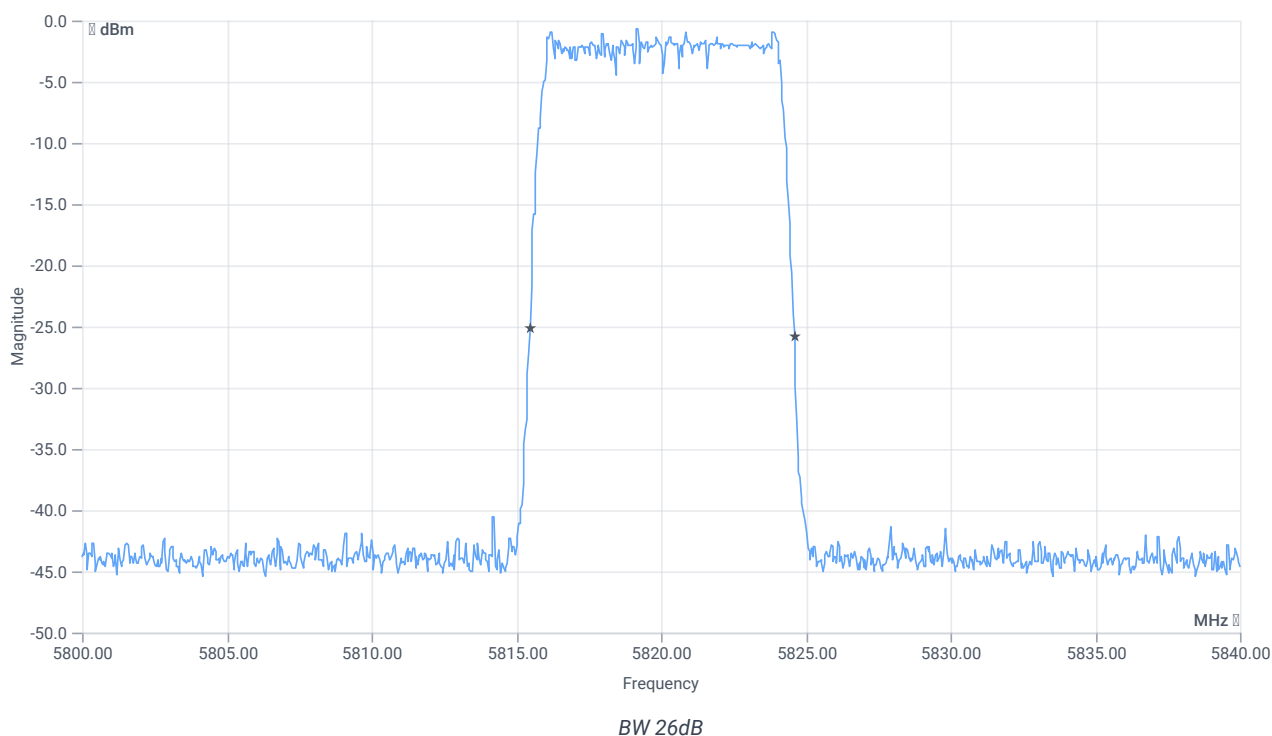
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Continuous / no burst structure (dynamic < 10 dB) - duty cycle = 1 (0 dB)	---	---	---	---	INFO
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Dynamic range (ON - noise)	---	---	2.73	dB	INFO
Estimated ON level	---	---	-26.2	dBm	INFO
Estimated noise floor	---	---	-28.93	dBm	INFO
Duty cycle min	---	---	0	dB	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



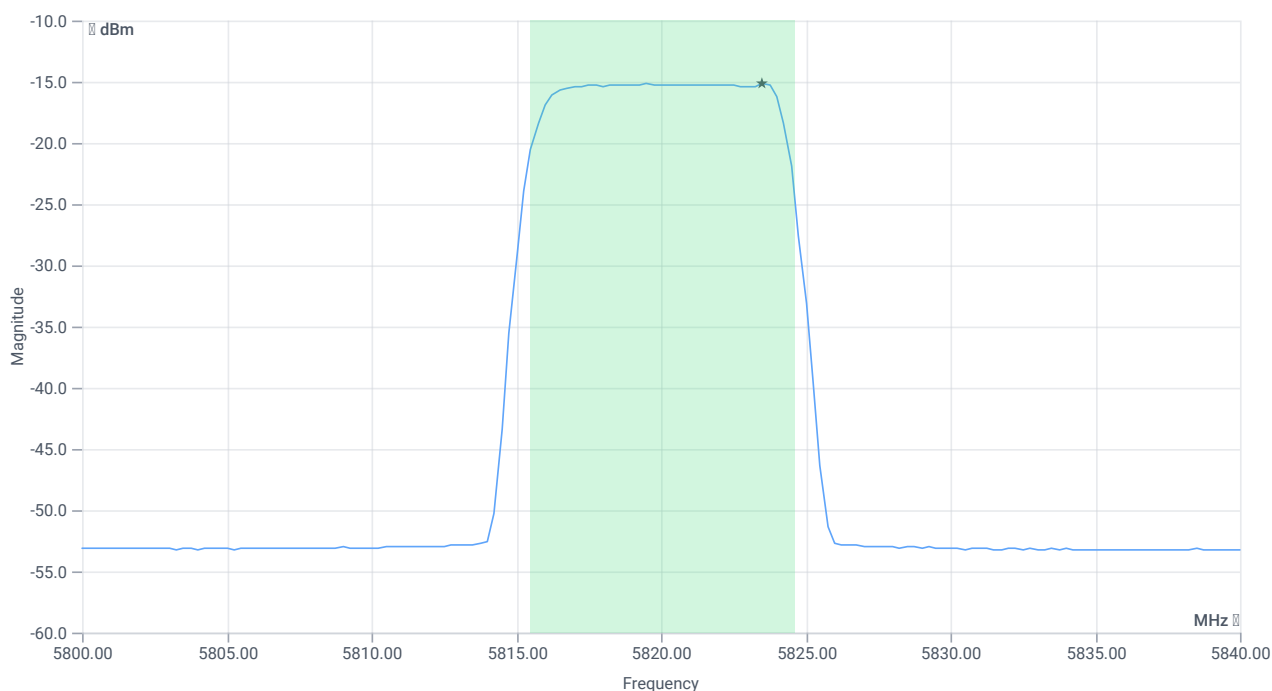
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.12	MHz	INFO
T1 26dB	---	---	5815.4800	MHz	INFO
T2 26dB	---	---	5824.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.18 5.86 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	2000 1 161 SWE



Max OP and PSD

RESULT

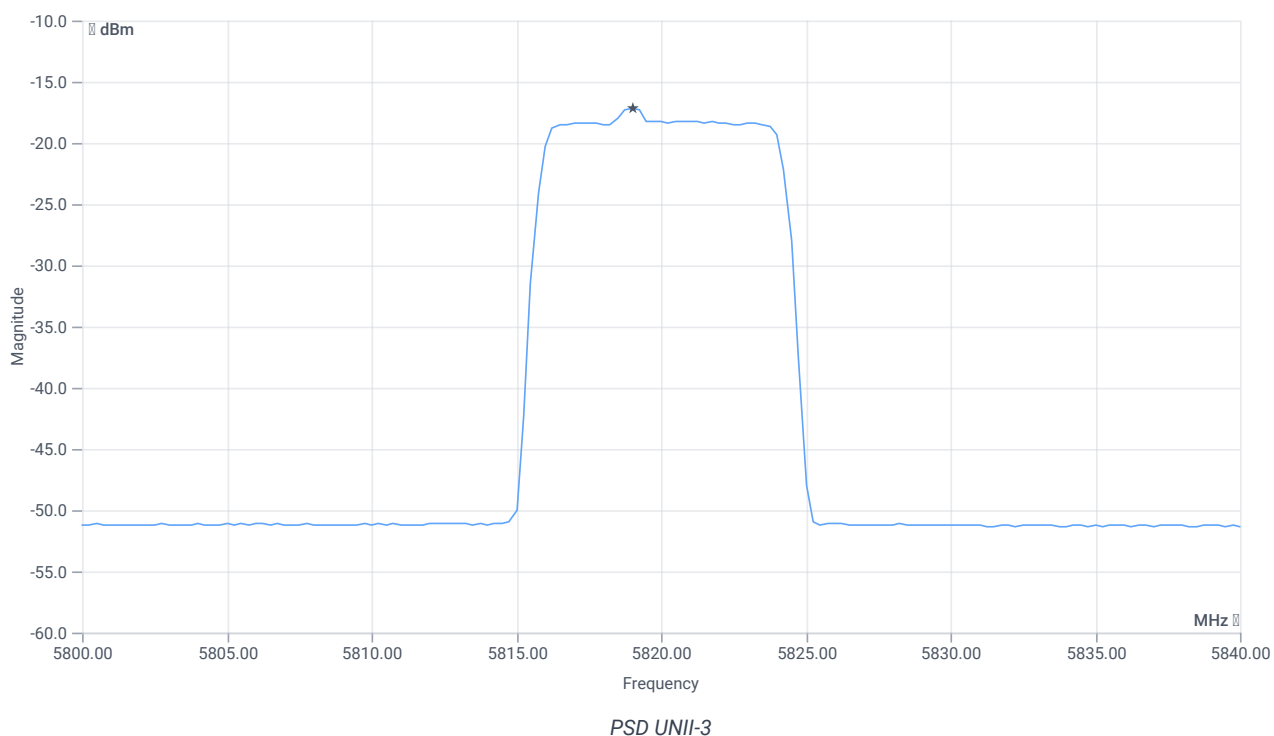
CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-6.34	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	-6.34	dBm	PASS
LIMIT: 11 dBm + 10 log 9.12					
Max output power DC corrected cond	---	N/A	-6.34	dBm	N/A

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.18 5.86 30
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	2000 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-17.13	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-17.13	dBm/0.5MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:35:47
Ambit temp (test rack) [°C] humidity [rel%]	26.1 41
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5820 MHz

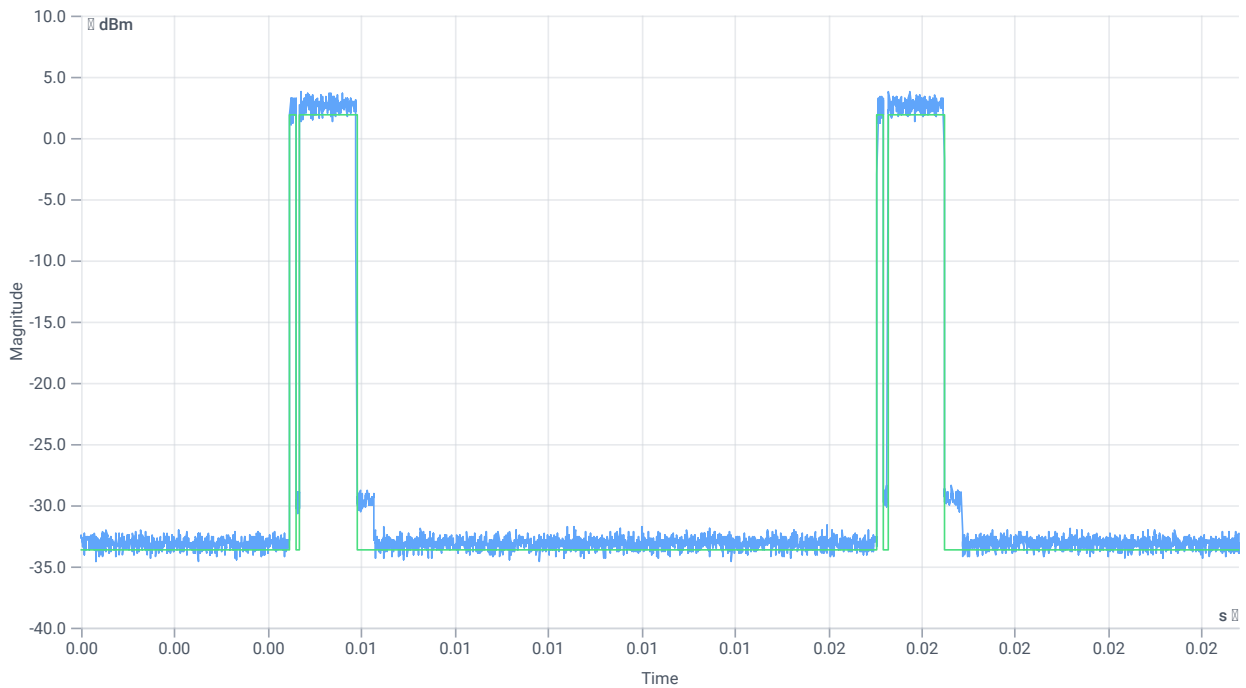
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.31	dBm	INFO
Ref. frequency	---	---	5818.600	MHz	INFO

Evaluation max. duty cycle

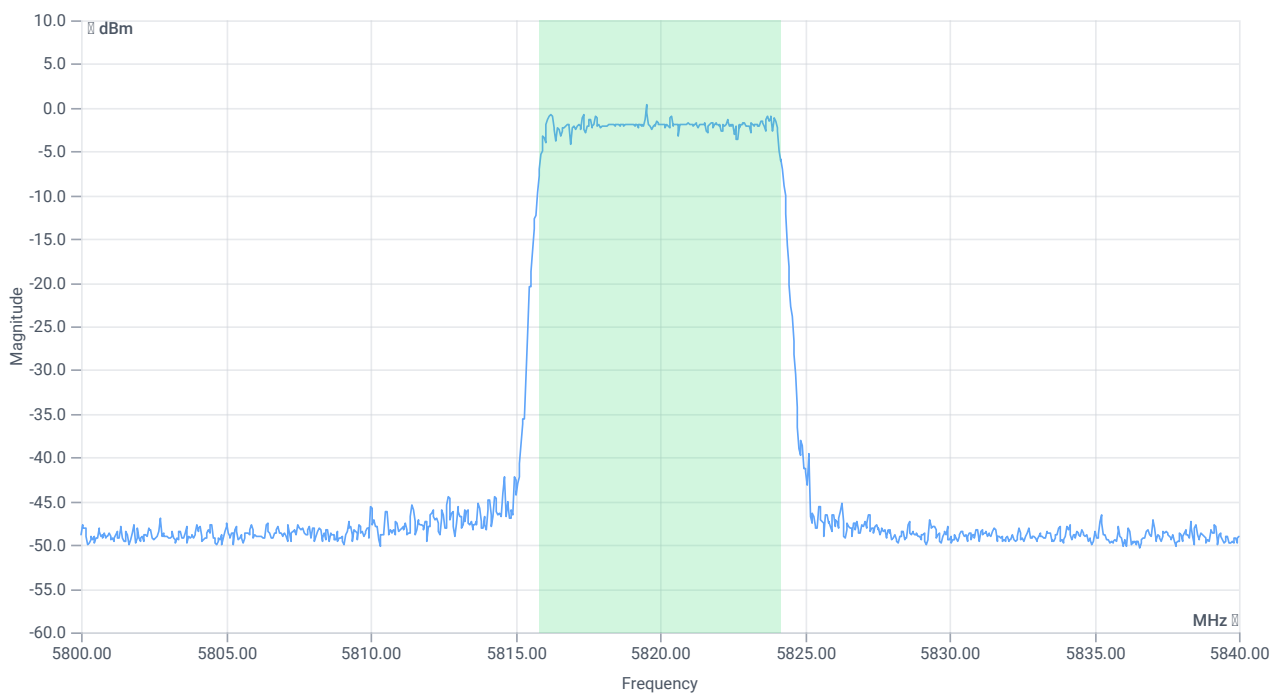
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.84	dBm	INFO
Estimated noise floor	---	---	-33.67	dBm	INFO
Dynamic range (ON - noise)	---	---	35.51	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.352	MHz	INFO
T1 99%	---	---	5815.8442	MHz	INFO
T2 99%	---	---	5824.1958	MHz	INFO

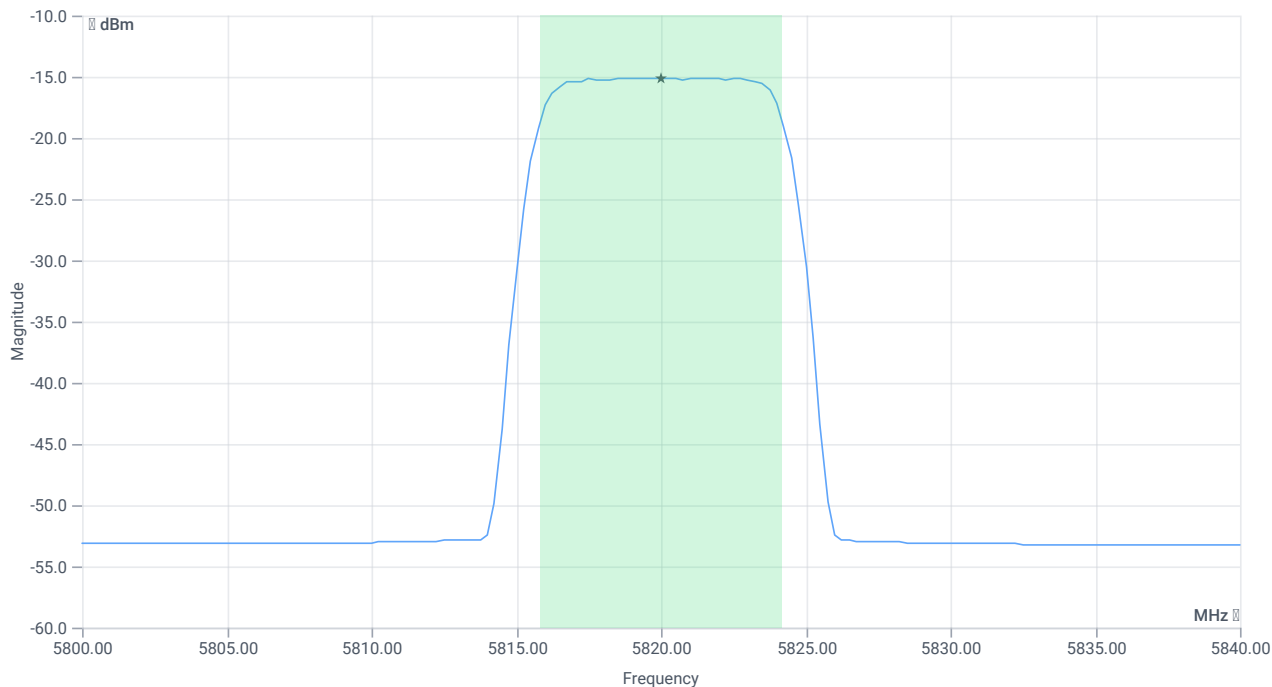
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 5.8 @ 5820 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.31 5.86 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

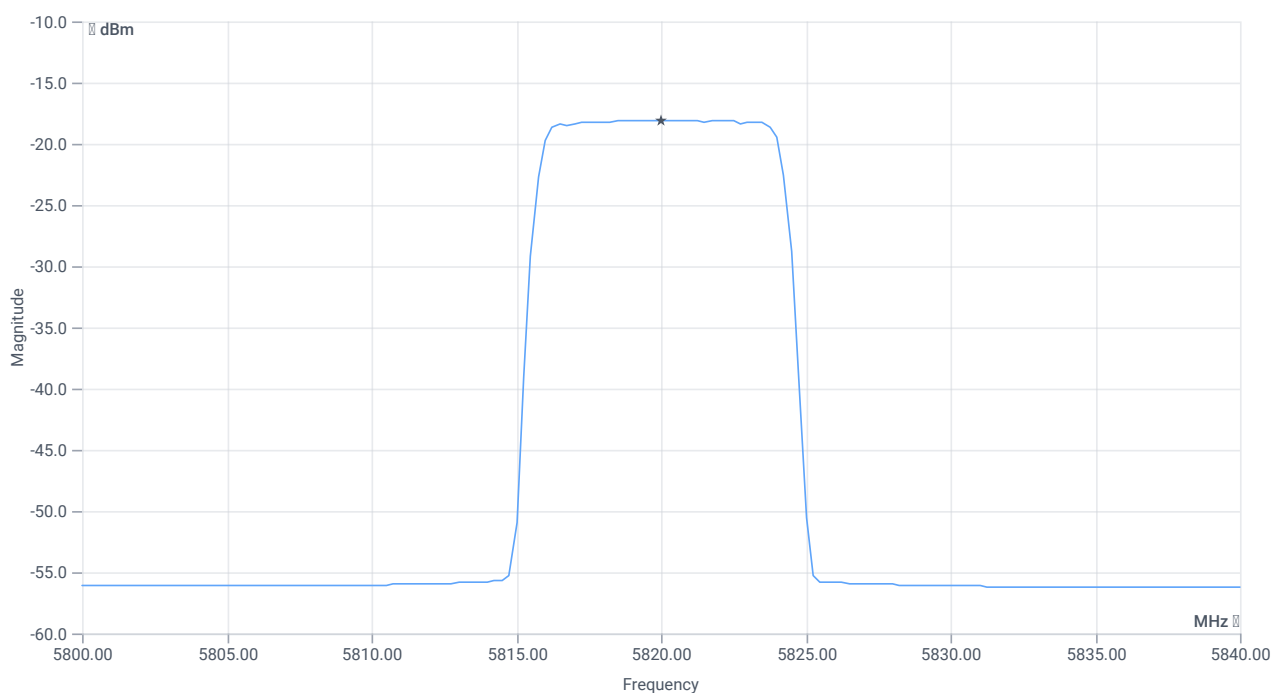
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-6.48	dBm	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty cycle correction	---	---	10.08	dB	INFO
LIMIT absolute cond					
Max output power DC corrected cond	---	30	3.6	dBm	PASS
Antenna gain applied			5.8	dBi	INFO
LIMIT absolute eirp (RSS-247 §6.2.4)					
Max output power DC corrected eirp	---	36	9.4	dBm	PASS

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.31 5.86 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density cond	---		-18.08	dBm/0.5MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density DC corrected cond	--	30	-8	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:38:27
Ambit temp (test rack) [°C] humidity [rel%]	26.2 40
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

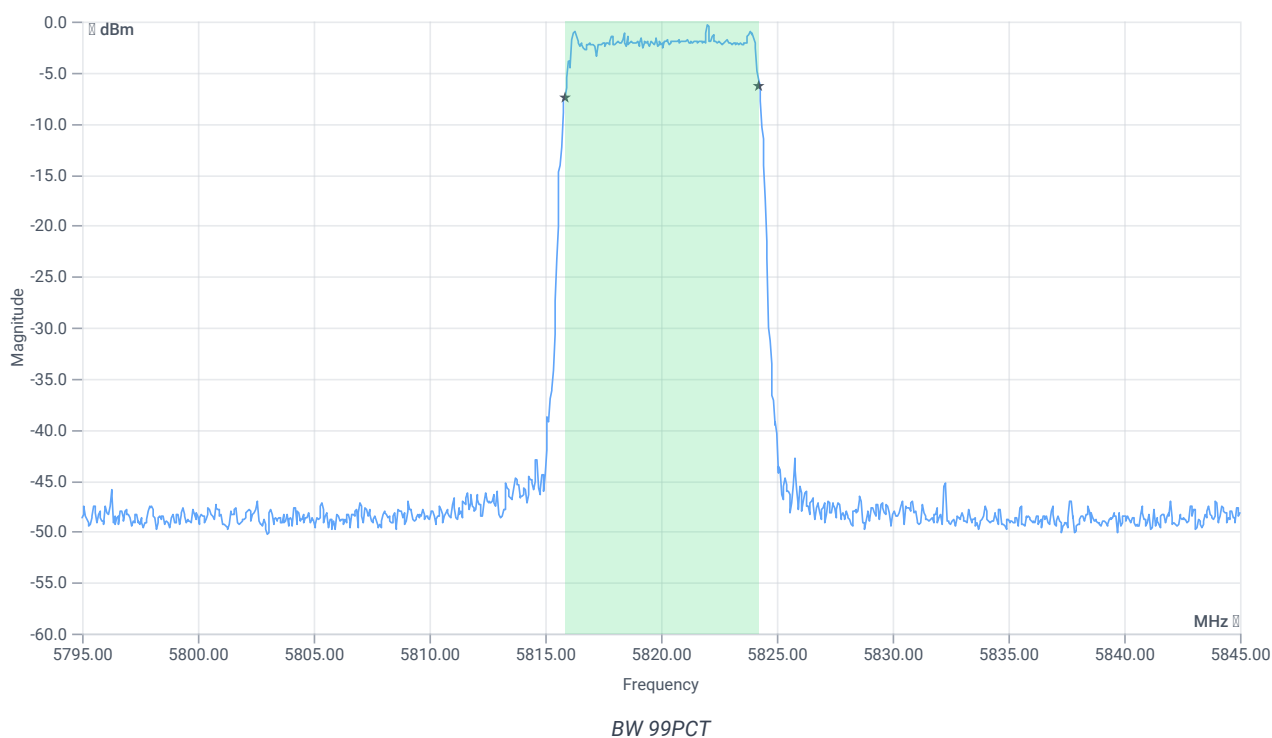
Test at TX 5820 MHz

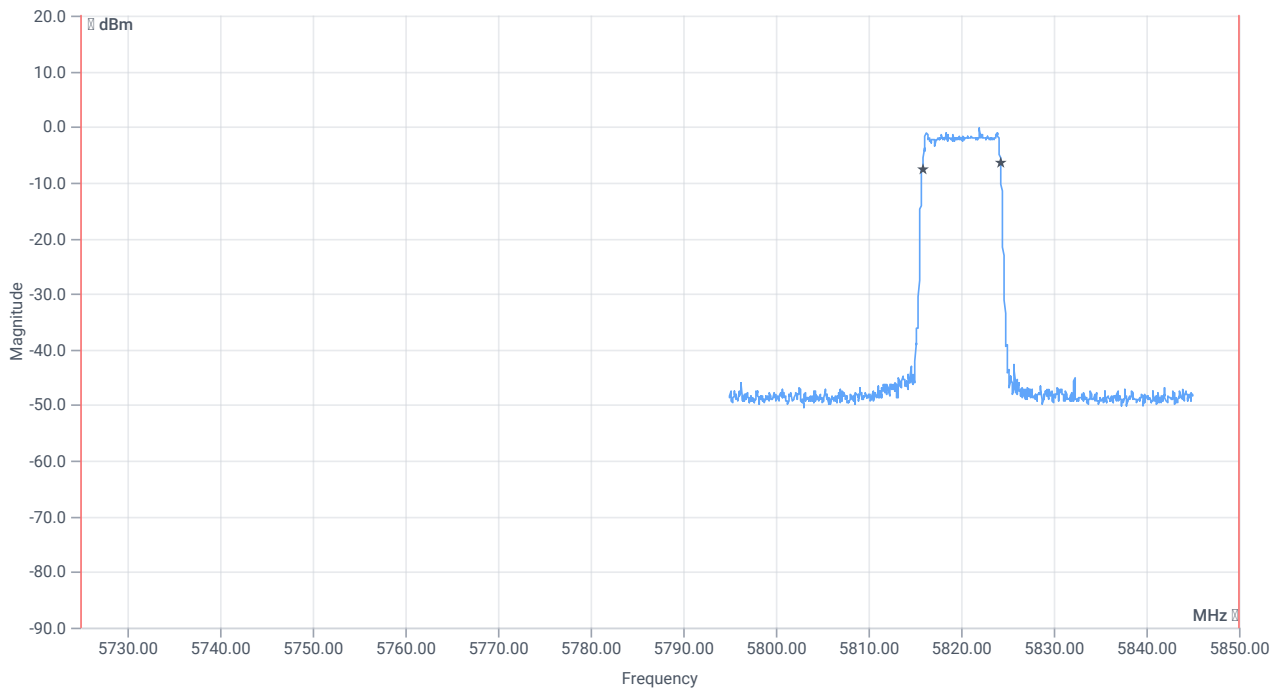
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.38	dBm	INFO
Ref. frequency	---	---	5819.600	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.38 5.86 25
Start [MHz] Stop [MHz]	5795.000 5845.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

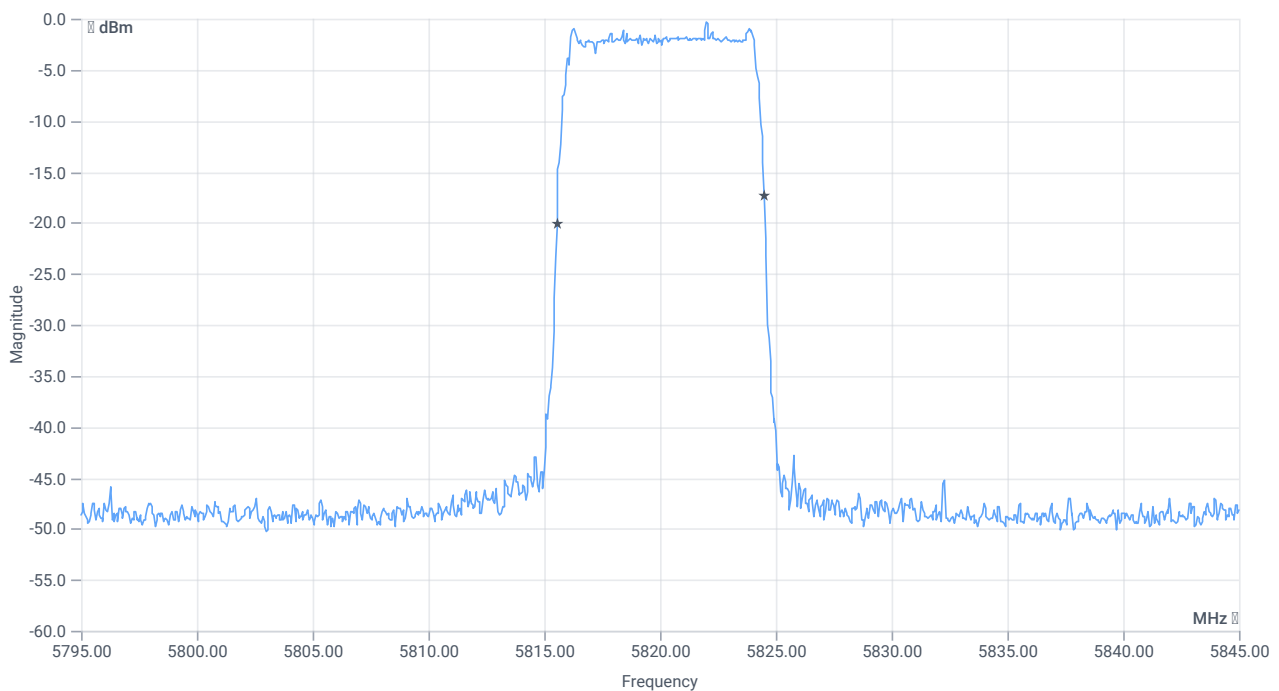




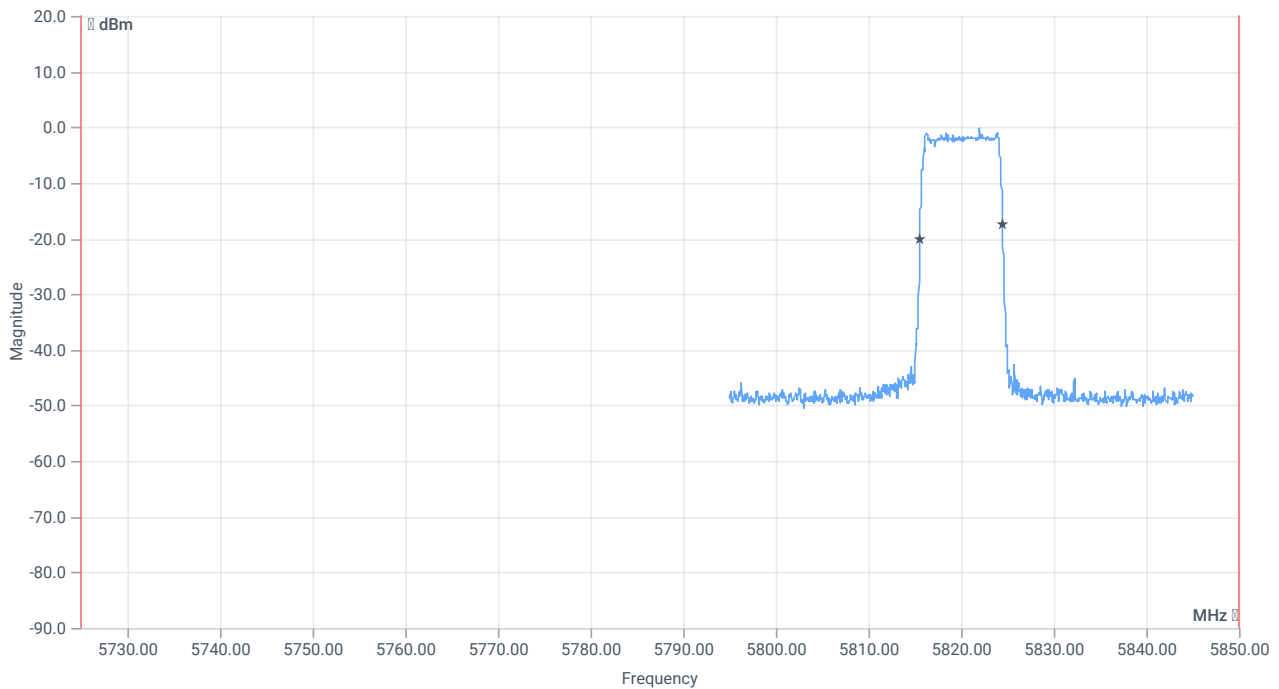
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5725.000000	---	5815.8541	MHz	PASS
T2 99%	---	5850.000000	5824.2458	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	8.95	MHz	INFO
T1 20dB	5725.000000	---	5815.5500	MHz	PASS
T2 20dB	---	5850.000000	5824.5000	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:38:58
Ambit temp (test rack) [°C] humidity [rel%]	26.2 40
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min emission BW - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

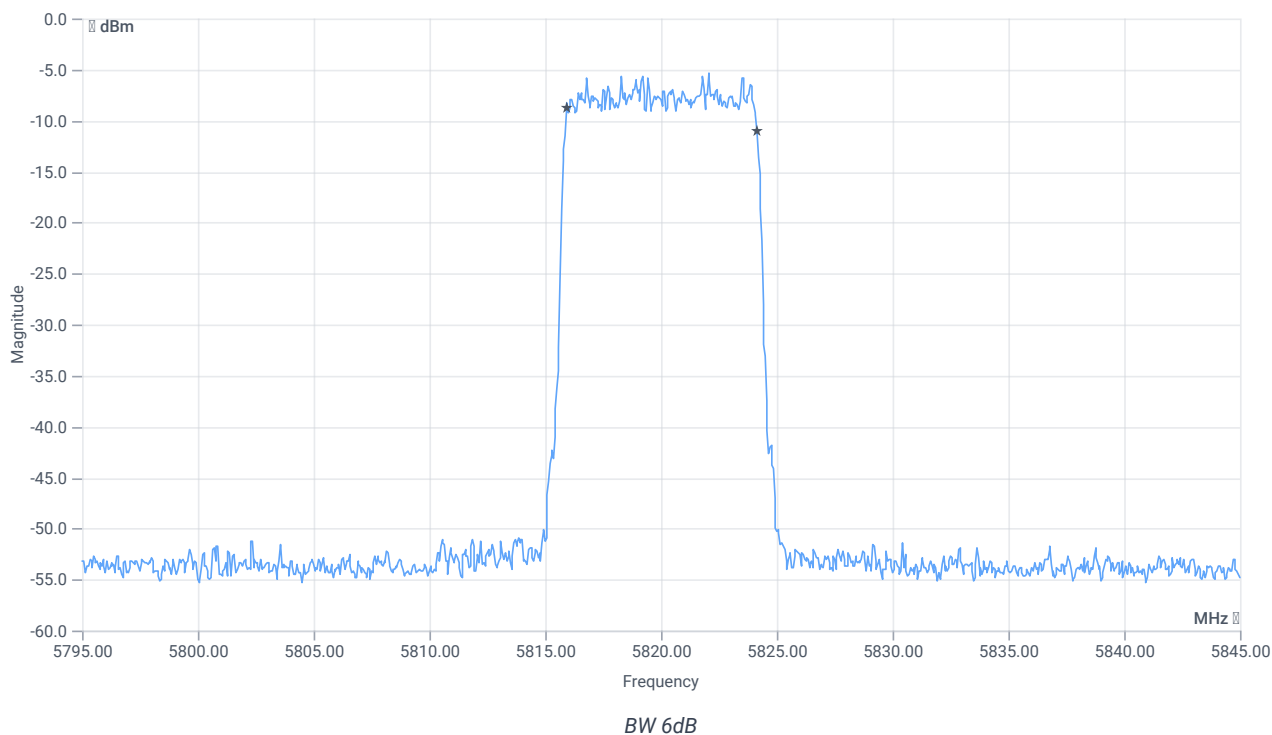
Test at TX 5820 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.70	dBm	INFO
Ref. frequency	---	---	5817.200	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.70 5.86 25
Start [MHz] Stop [MHz]	5795.000 5845.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	8.25	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:39:37
Ambit temp (test rack) [°C] humidity [rel%]	26.2 40
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a U-NII-3
Information	Ant 136

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/
Switch bits	00000001:00000001:00000000:00000110

Test at TX 5820 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

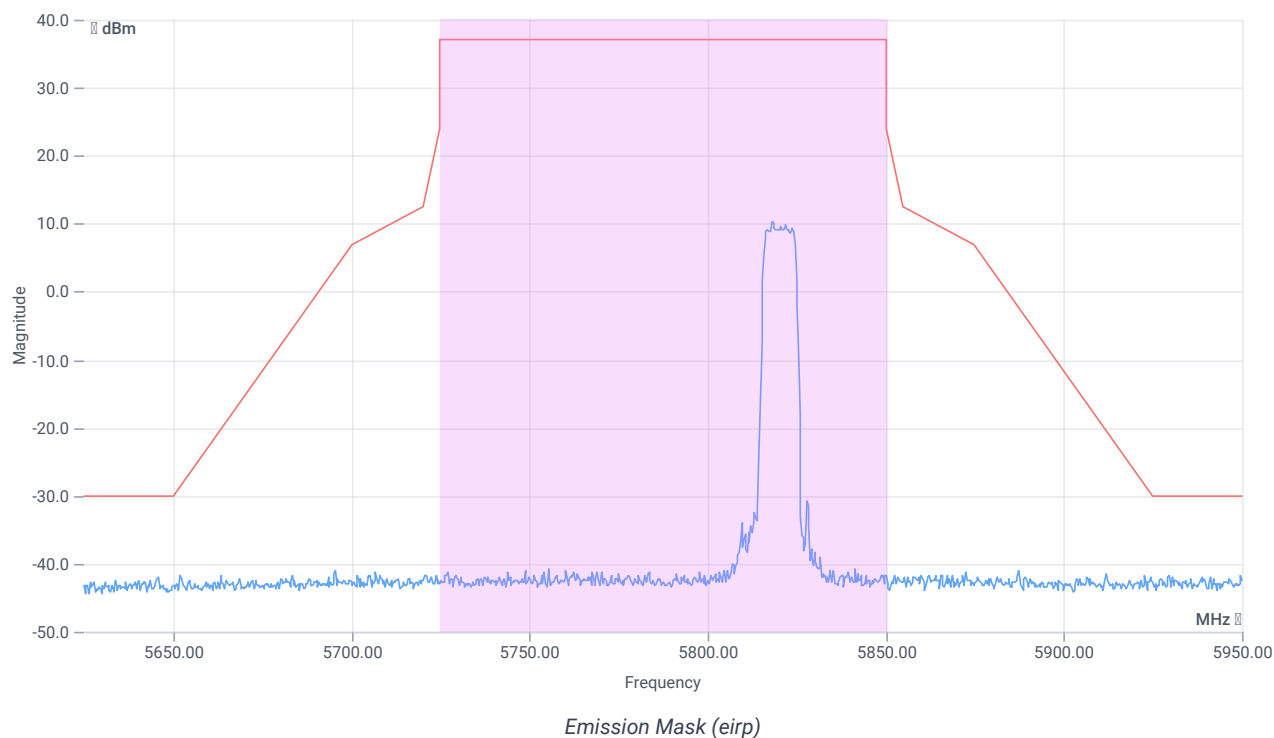
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.32	dBm	INFO
Ref. frequency	---	---	5816.400	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	5.8 / max found in range 5625 to 5950 MHz
--------------------------------	---

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.32 5.86 20
Start [MHz] Stop [MHz]	5625.000 5950.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
cetecom advanced GmbH Untertürkheimer Str. 6-10, 66117 Saarbrücken					
Document No. 1-3399-26-02-03_TR1-A201-R01 Release 1 - Page 112 of 223					

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:57:47
Ambit temp (test rack) [°C] humidity [rel%]	25.8 45
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-1
Information	Ant 17

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110
Message start	20.08.2026 09:57:49
Message	set WLAN5Gx to a_U-NII-1 Frequency [MHz]: 5180 Power setting: 4 Port: EUT2 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:58:13
Ambit temp (test rack) [°C] humidity [rel%]	25.8 45
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5175
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5175 MHz

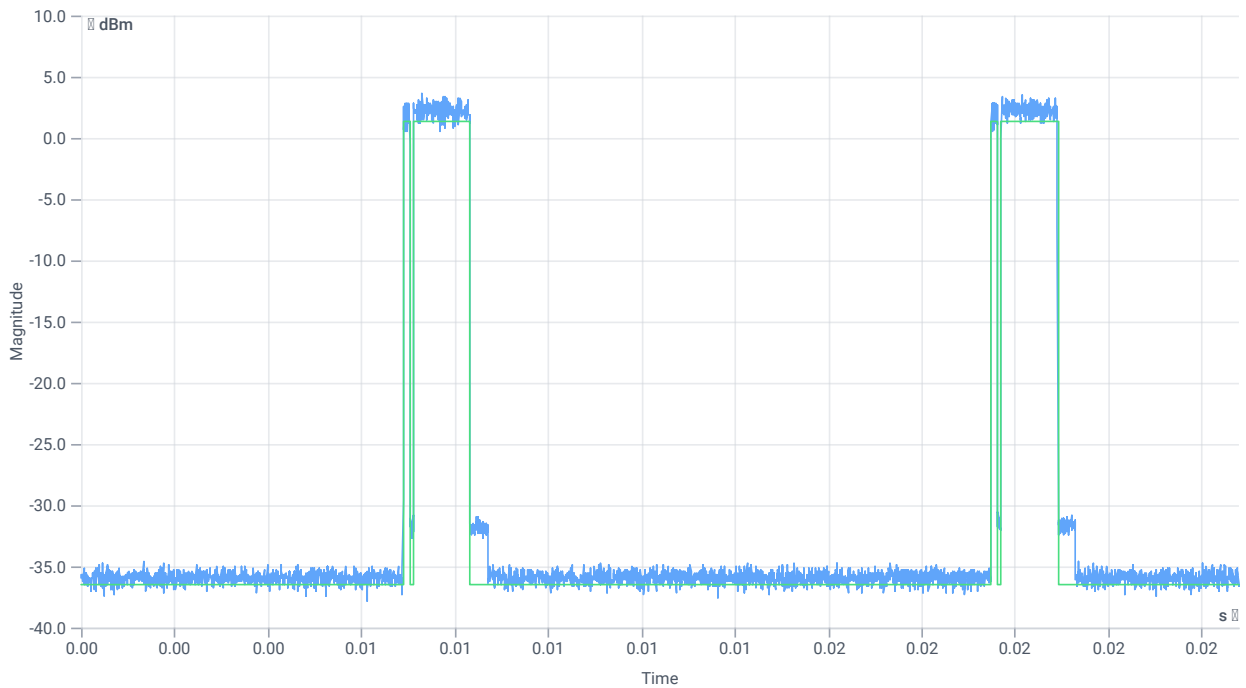
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.09	dBm	INFO
Ref. frequency	---	---	5174.800	MHz	INFO

Evaluation max. duty cycle

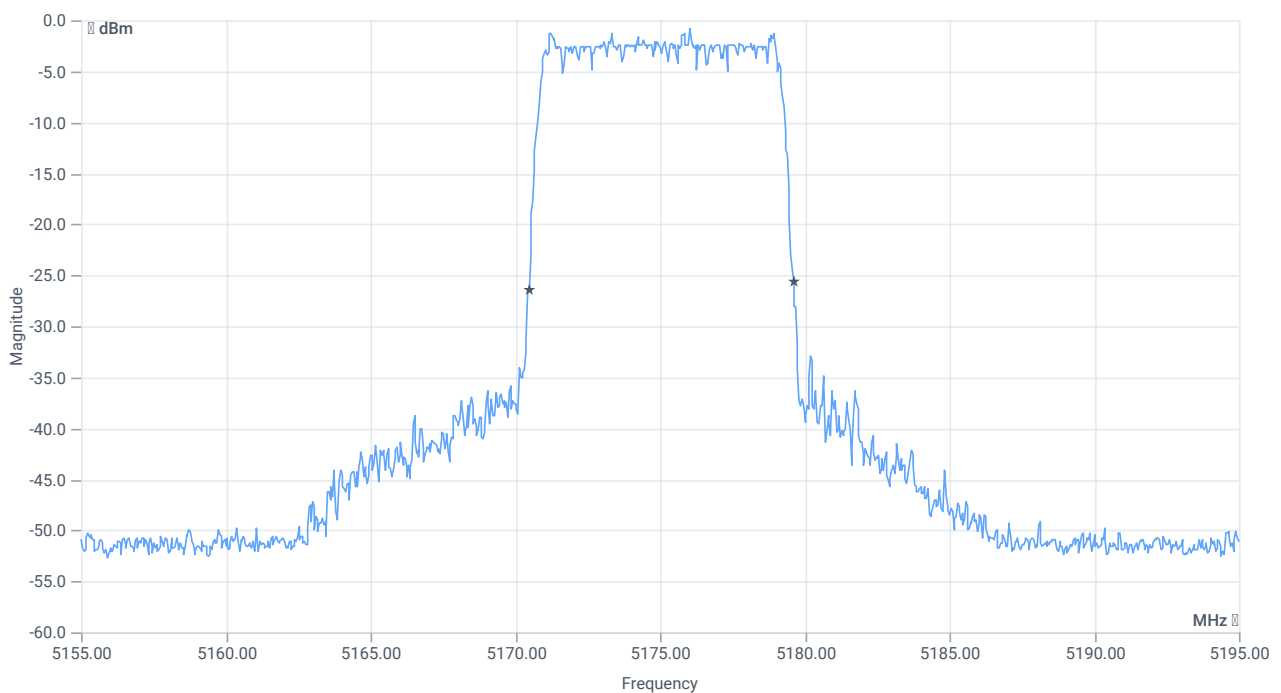
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.32	dBm	INFO
Estimated noise floor	---	---	-36.49	dBm	INFO
Dynamic range (ON - noise)	---	---	37.8	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6286	---	INFO
Duty cycle max	---	---	2.016	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0977	---	INFO
Duty cycle min	---	---	10.101	dB	INFO
Max TX burst length	---	---	1.2092	ms	INFO
Min gap length	---	---	0.0806	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

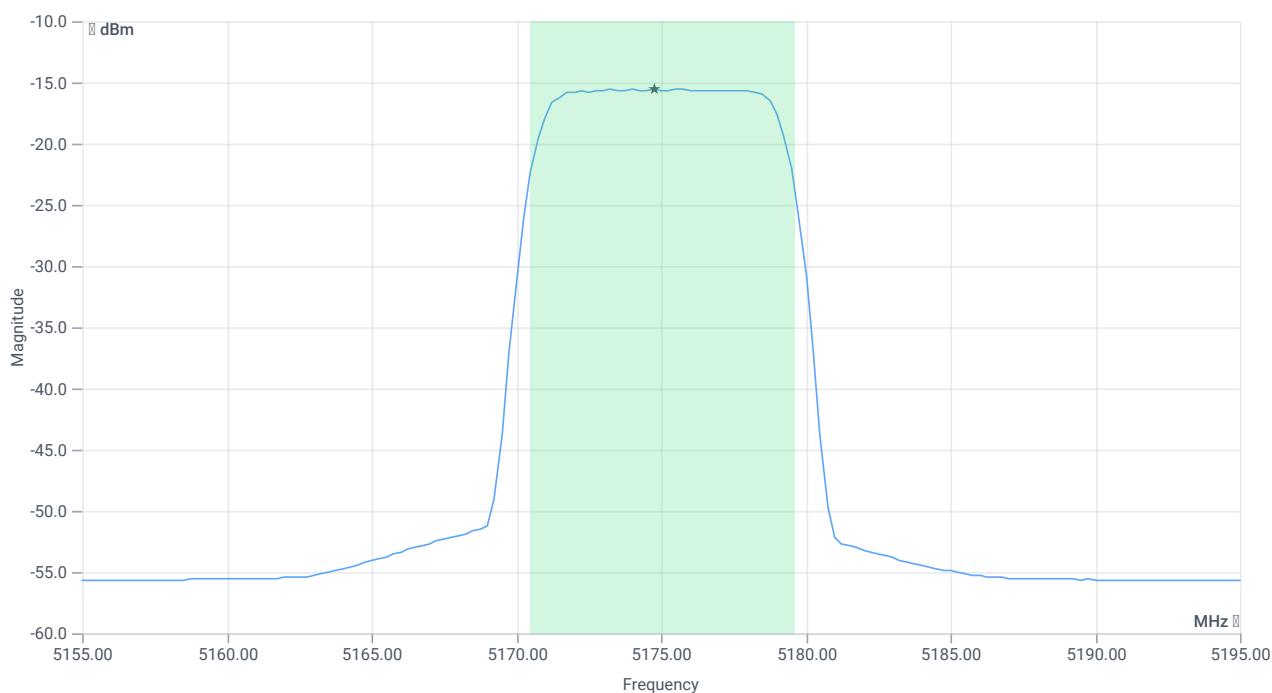
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.12	MHz	INFO
T1 26dB	---	---	5170.4800	MHz	INFO
T2 26dB	---	---	5179.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.09 5.55 25
Start [MHz] Stop [MHz]	5155.000 5195.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-6.81	dBm	INFO
Duty cycle correction	---	---	10.1	dB	INFO

LIMIT absolute:

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	24	3.29	dBm	PASS
---	----	------	-----	------

LIMIT: 11 dBm + 10 log 9.12

Max output power DC --- corrected cond	N/A	3.29	dBm	N/A
---	-----	------	-----	-----

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-15.55	dBm/MHz	INFO
Duty cycle correction	---	---	10.1	dB	INFO
Power spectral density DC corrected cond	---	11	-5.45	dBm/MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 09:59:51
Ambit temp (test rack) [°C] humidity [rel%]	25.8 45
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5175
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5175 MHz

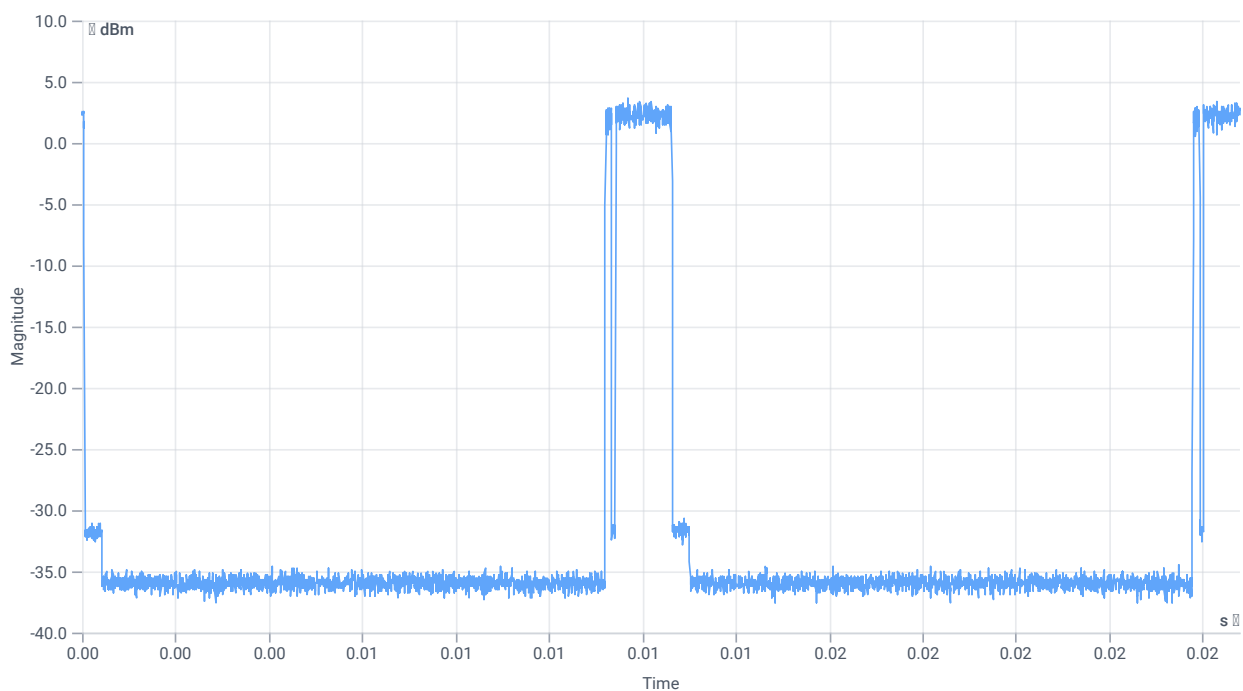
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.94	dBm	INFO
Ref. frequency	---	---	5174.800	MHz	INFO

Evaluation max. duty cycle

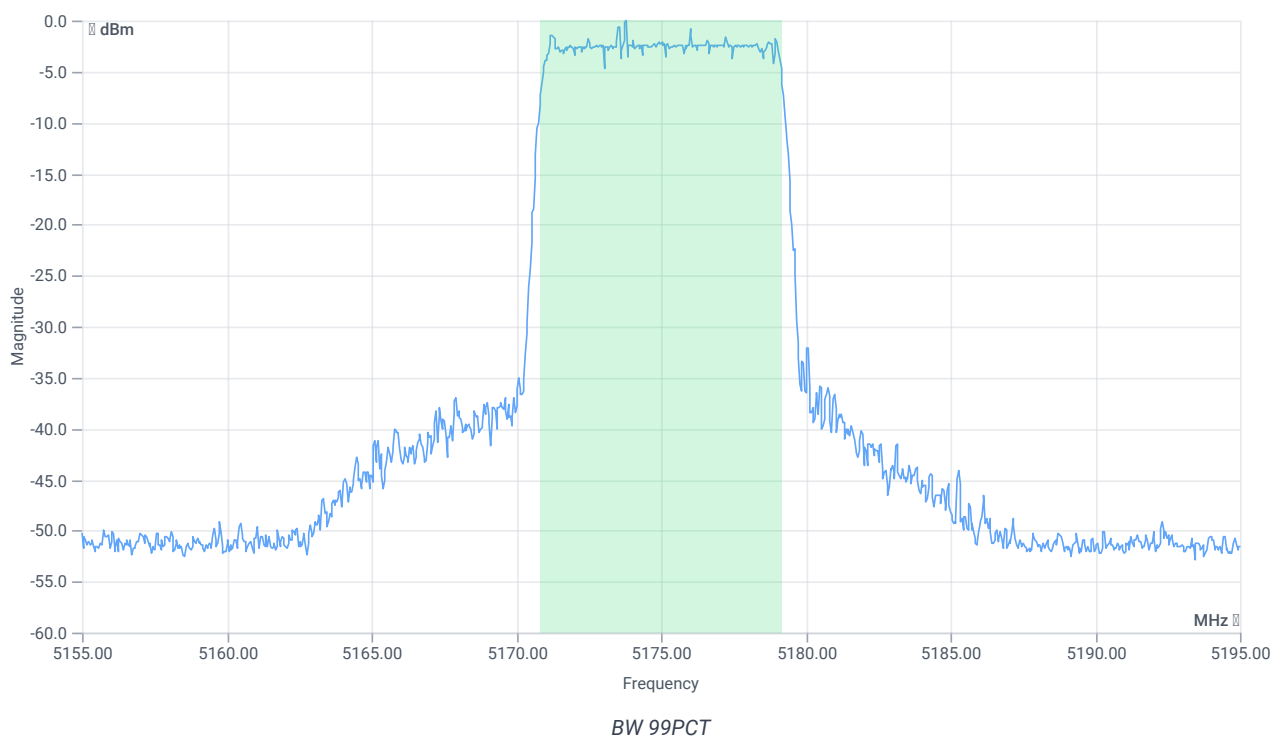
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Continuous / no burst structure (dynamic < 10 dB) - duty cycle = 1 (0 dB)	---	---	---	---	INFO
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Dynamic range (ON - noise)	---	---	5.21	dB	INFO
Estimated ON level	---	---	-31.29	dBm	INFO
Estimated noise floor	---	---	-36.5	dBm	INFO
Duty cycle min	---	---	0	dB	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.352	MHz	INFO
T1 99%	---	---	5170.8442	MHz	INFO
T2 99%	---	---	5179.1958	MHz	INFO

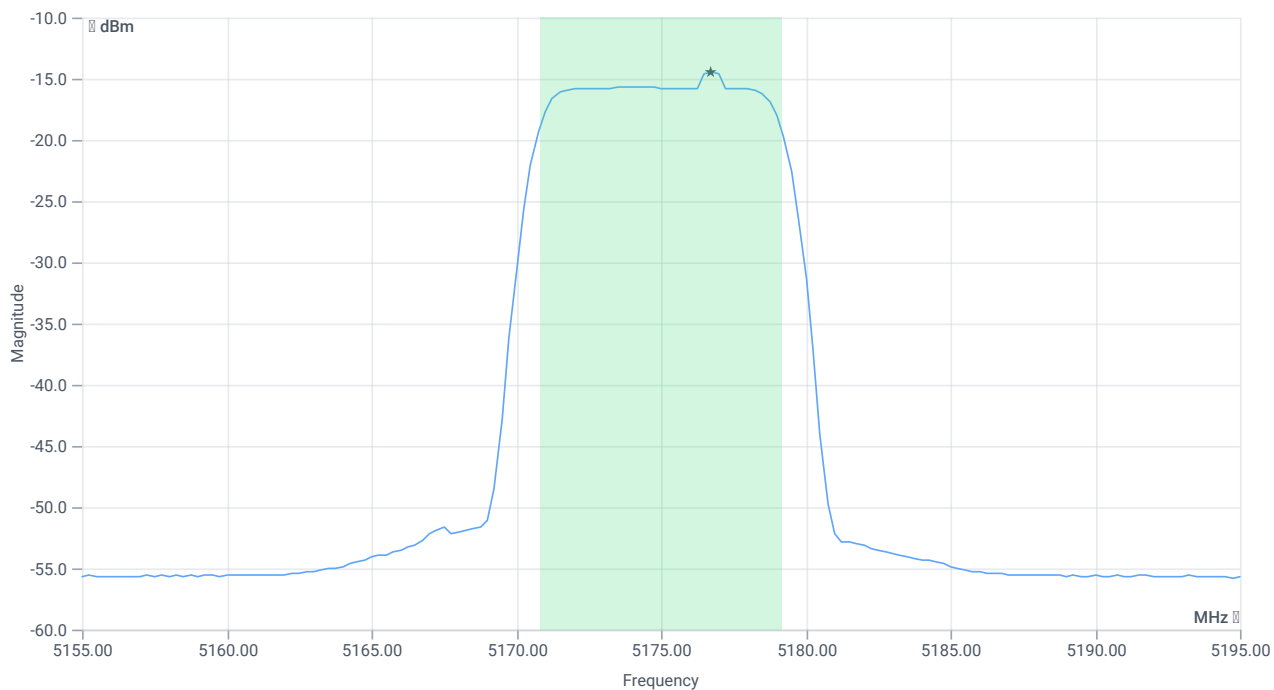
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 6.8 @ 5175 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.94 5.55 25
Start [MHz] Stop [MHz]	5155.000 5195.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	2000 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					
Max output power cond	---	---	-6.94	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
Max output power DC corrected cond	---	---	-6.94	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	-0.14	dBm	PASS
LIMIT: 10 dBm + 10 log 8.352					
Max output power DC corrected eirp	---	19.22	-0.14	dBm	PASS
Power spectral density eirp	---		-7.61	dBm/MHz	INFO
Power spectral density DC corrected eirp	---	10	-7.61	dBm/MHz	PASS
LIMIT absolute cond (RSS-247 §6.2.1)					
Max output power DC corrected cond	---	24	-6.94	dBm	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:00:28
Ambit temp (test rack) [°C] humidity [rel%]	25.7 46
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5175
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

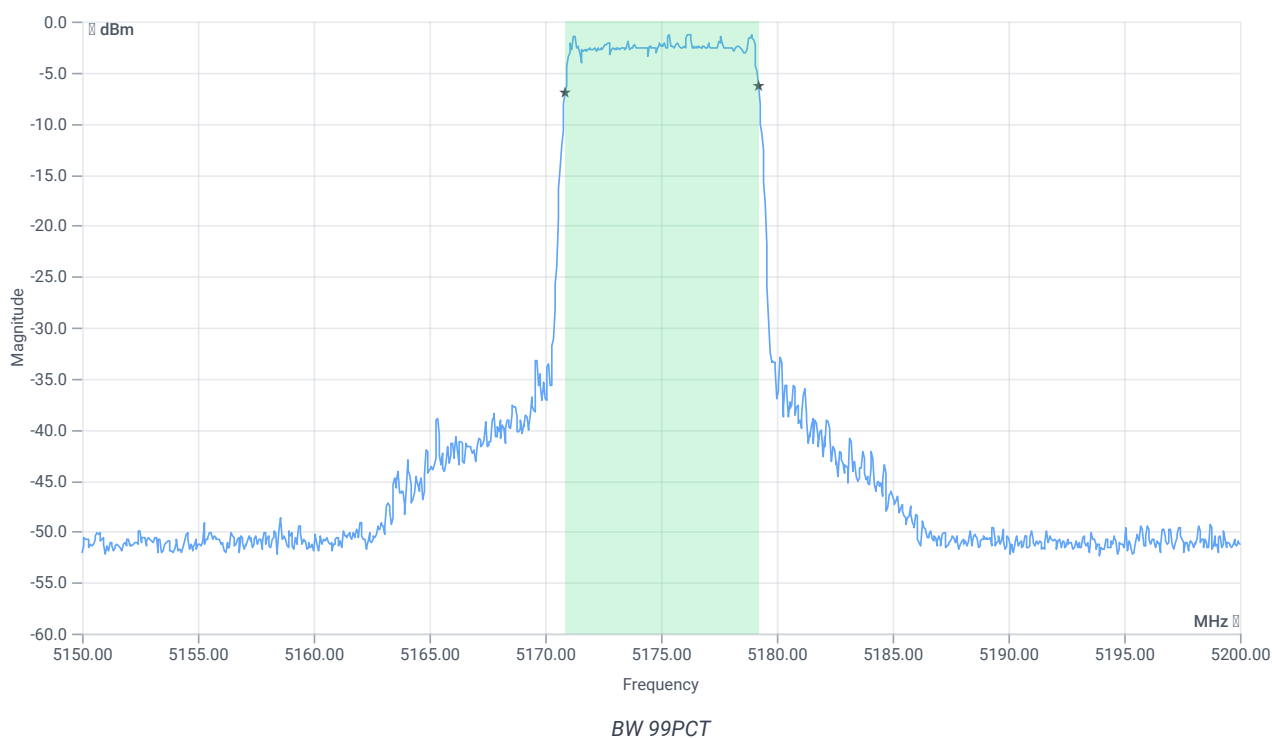
Test at TX 5175 MHz

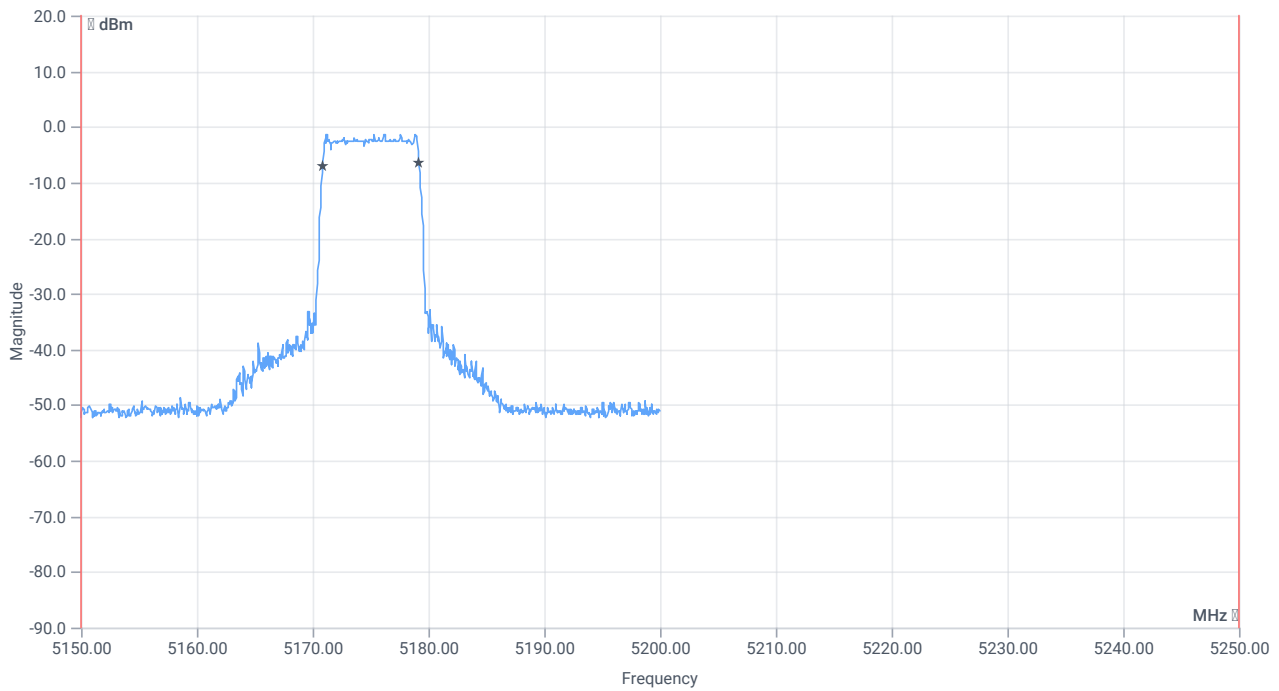
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.53	dBm	INFO
Ref. frequency	---	---	5177.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.53 5.55 25
Start [MHz] Stop [MHz]	5150.000 5200.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

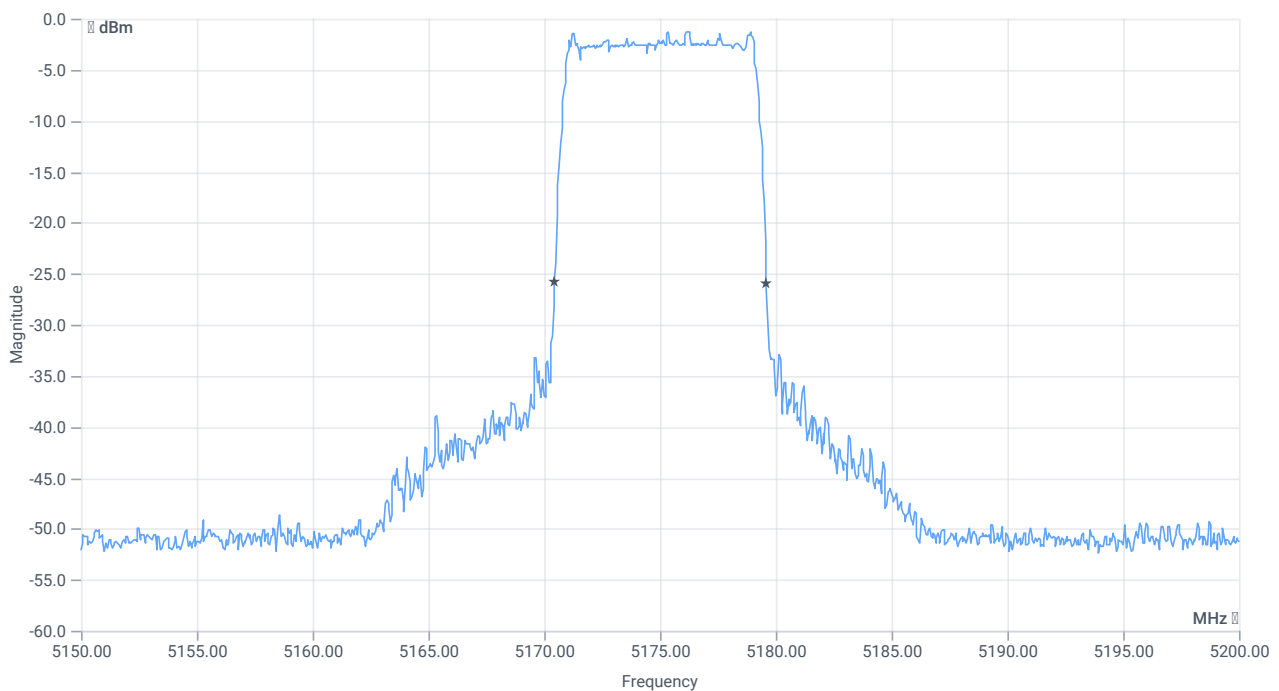




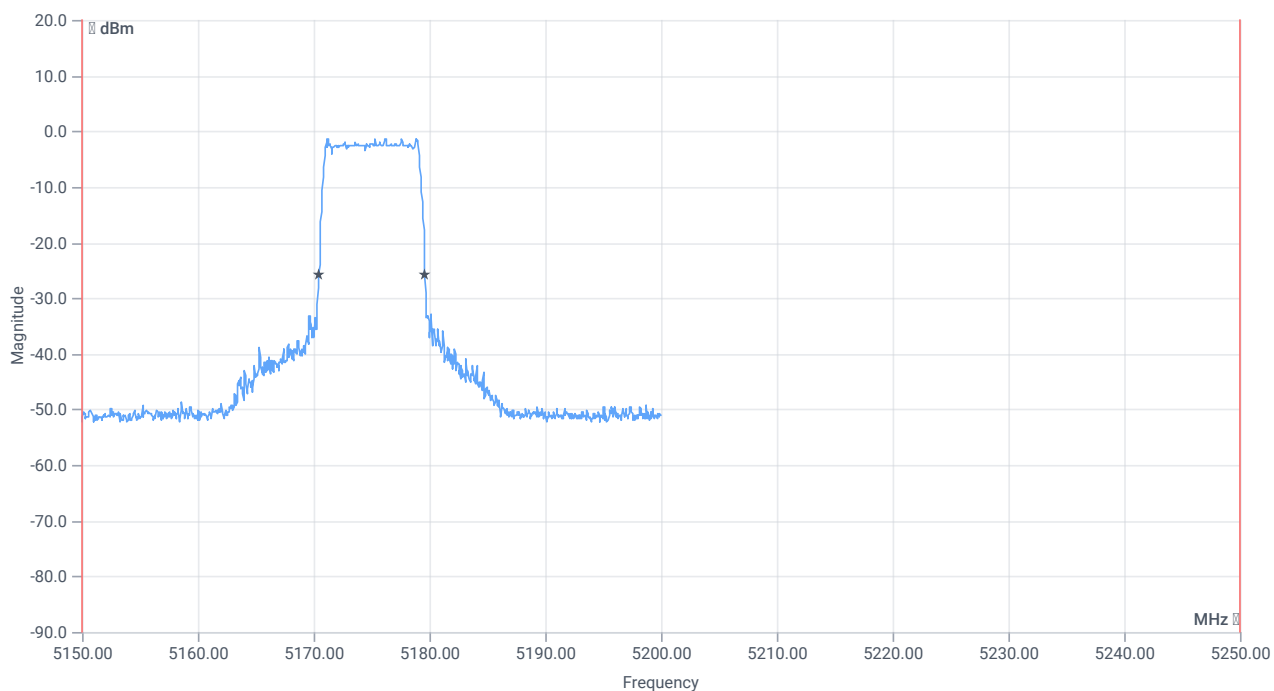
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.342	MHz	INFO
T1 99%	5150.000000	---	5170.8541	MHz	PASS
T2 99%	---	5250.000000	5179.1958	MHz	PASS



BW 26dB



BW within band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.15	MHz	INFO
T1 26dB	5150.000000	---	5170.4500	MHz	PASS
T2 26dB	---	5250.000000	5179.6000	MHz	PASS

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:01:06
Ambit temp (test rack) [°C] humidity [rel%]	25.8 46
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-1
Information	Ant 17

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110
Message start	20.08.2026 10:01:08
Message	set WLAN5Gx to a_U-NII-1 Frequency [MHz]: 5200 Power setting: 4 Port: EUT2 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:38:02
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5215
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5215 MHz

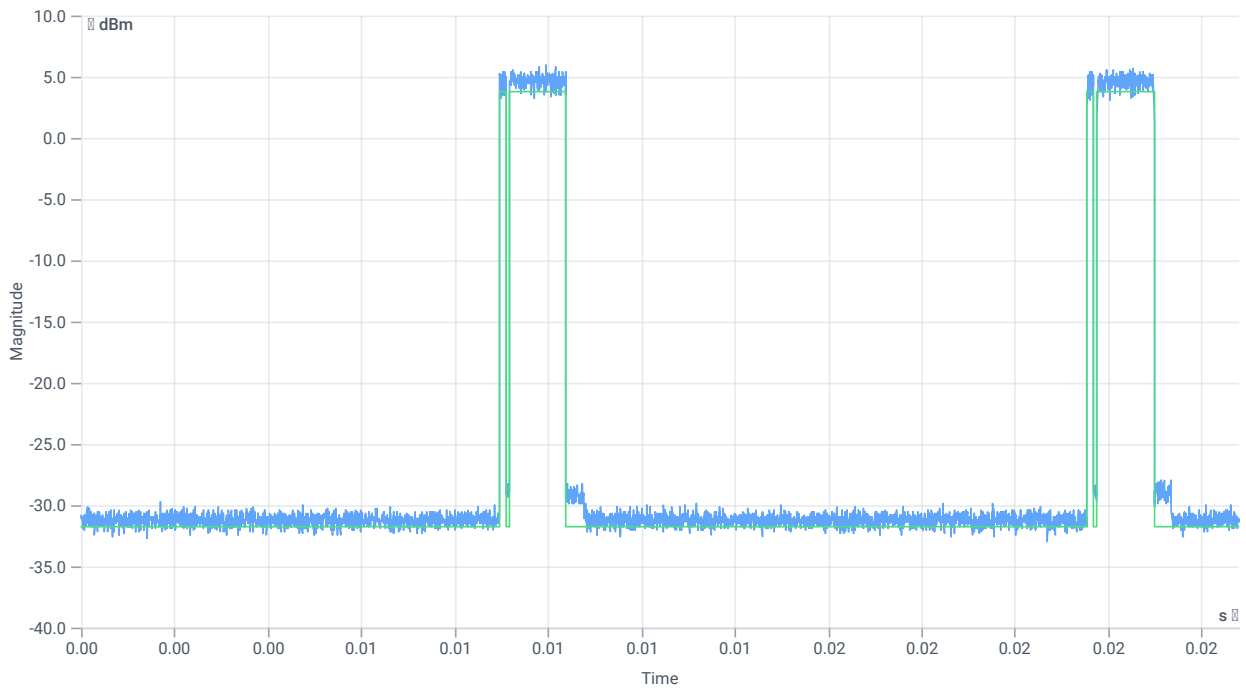
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.38	dBm	INFO
Ref. frequency	---	---	5212.200	MHz	INFO

Evaluation max. duty cycle

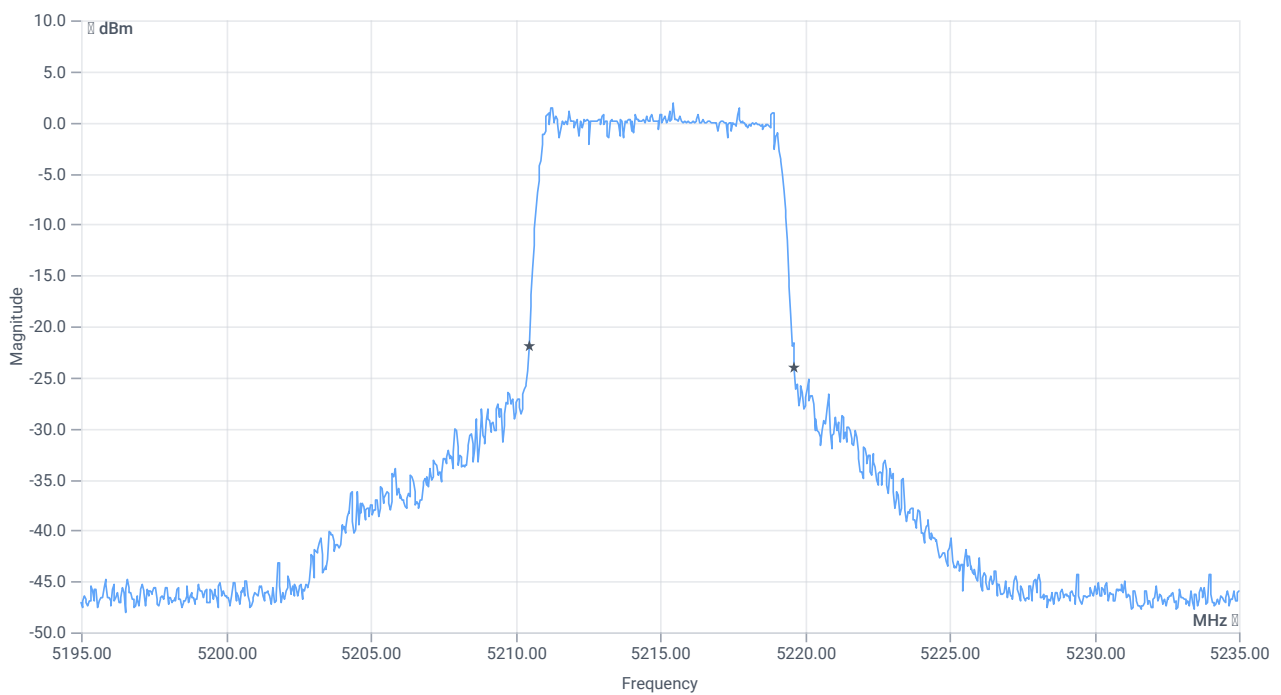
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	3.76	dBm	INFO
Estimated noise floor	---	---	-31.76	dBm	INFO
Dynamic range (ON - noise)	---	---	35.51	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

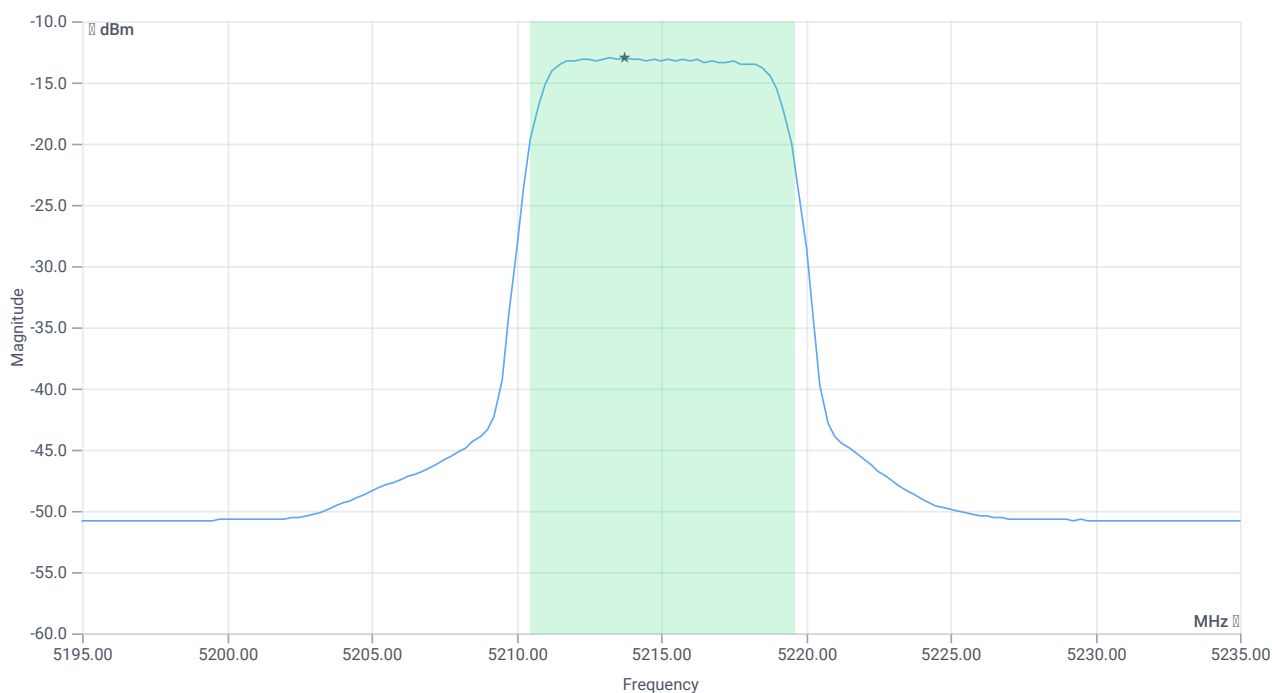
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.16	MHz	INFO
T1 26dB	---	---	5210.4800	MHz	INFO
T2 26dB	---	---	5219.6400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.38 5.46 30
Start [MHz] Stop [MHz]	5195.000 5235.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-4.37	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	24	5.71	dBm	PASS
---	----	------	-----	------

LIMIT: 11 dBm + 10 log 9.16

Max output power DC --- corrected cond	N/A	5.71	dBm	N/A
---	-----	------	-----	-----

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-13.02	dBm/MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Power spectral density DC corrected cond	---	11	-2.94	dBm/MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:39:38
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5215
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5215 MHz

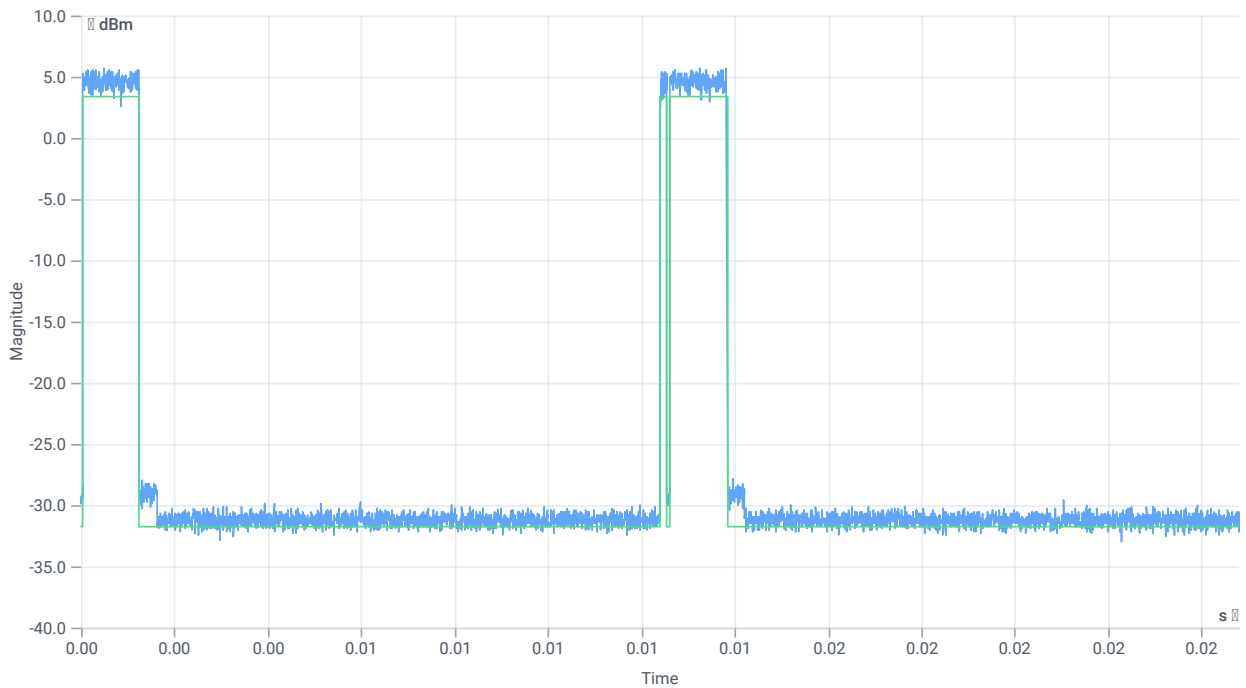
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.42	dBm	INFO
Ref. frequency	---	---	5212.800	MHz	INFO

Evaluation max. duty cycle

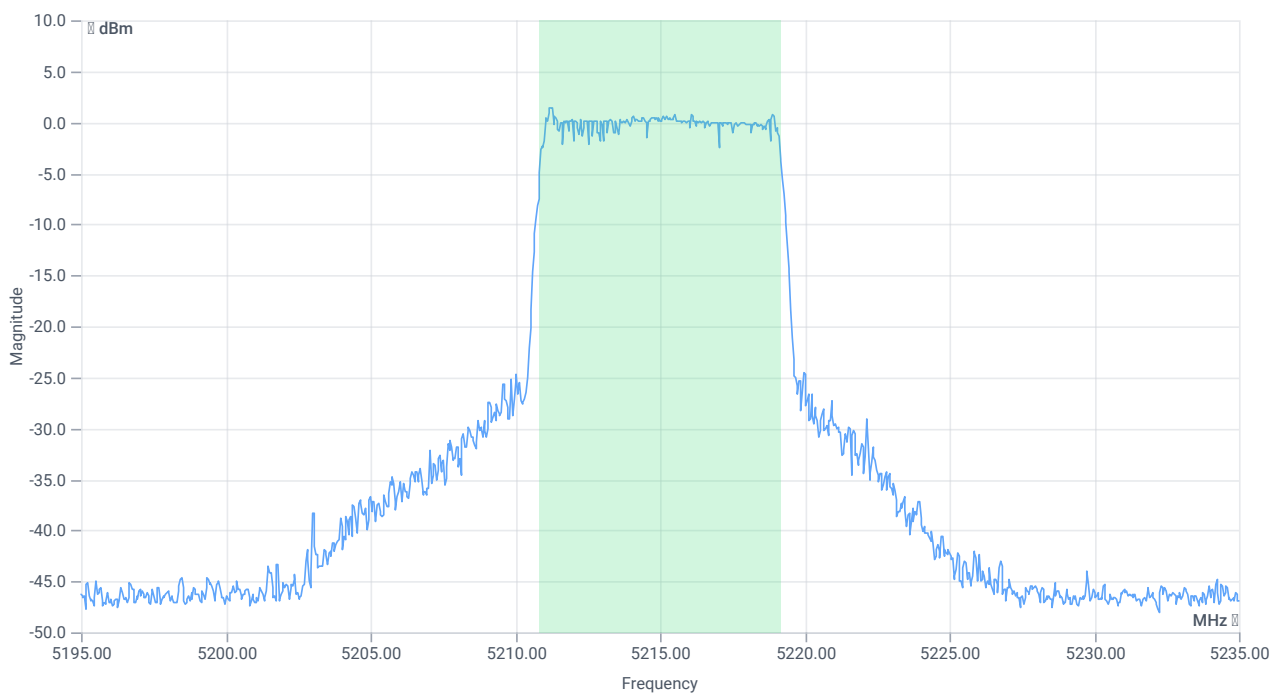
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	2	---	INFO
Estimated ON level	---	---	3.36	dBm	INFO
Estimated noise floor	---	---	-31.75	dBm	INFO
Dynamic range (ON - noise)	---	---	35.11	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6471	---	INFO
Duty cycle max	---	---	1.89	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.352	MHz	INFO
T1 99%	---	---	5210.8442	MHz	INFO
T2 99%	---	---	5219.1958	MHz	INFO

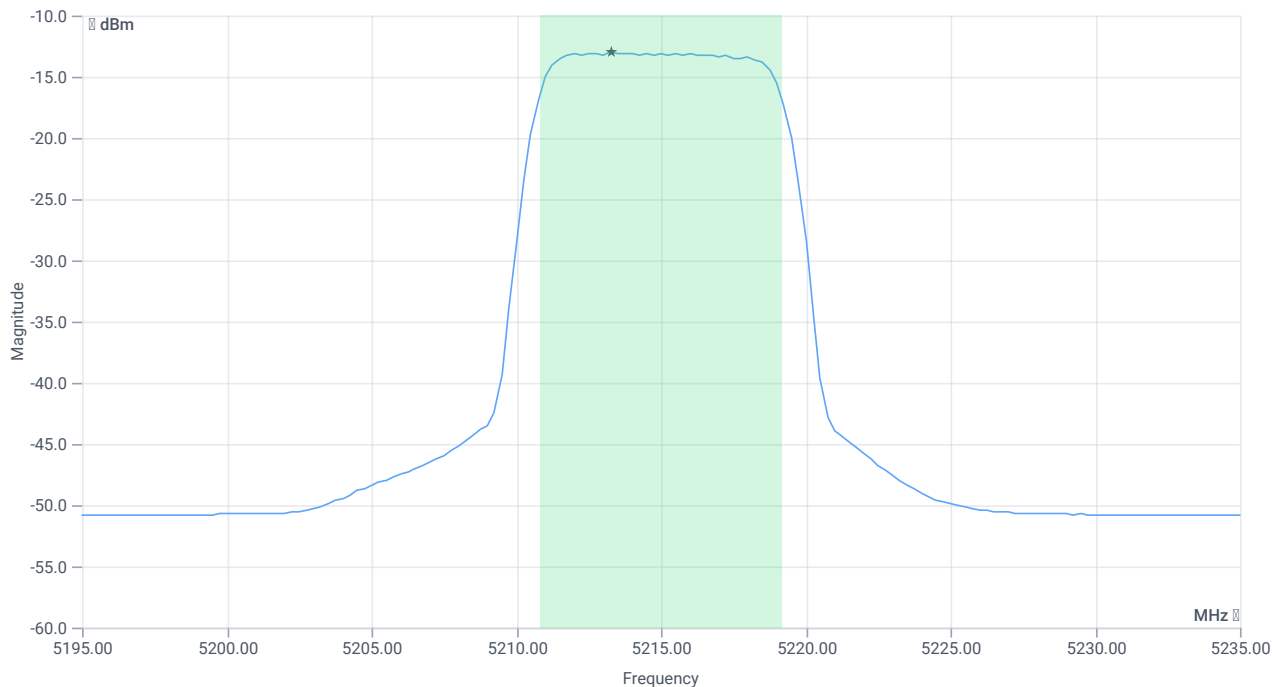
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 6.8 @ 5215 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.42 5.46 30
Start [MHz] Stop [MHz]	5195.000 5235.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-4.5	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Max output power DC corrected cond	---	---	5.58	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	12.38	dBm	PASS
LIMIT: 10 dBm + 10 log 8.352					
Max output power DC corrected eirp	---	19.22	12.38	dBm	PASS
Power spectral density eirp	---		-6.23	dBm/MHz	INFO
Power spectral density DC corrected eirp	---	10	3.85	dBm/MHz	PASS
LIMIT absolute cond (RSS-247 §6.2.1)					
Max output power DC corrected cond	---	24	5.58	dBm	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:41:12
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5215
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

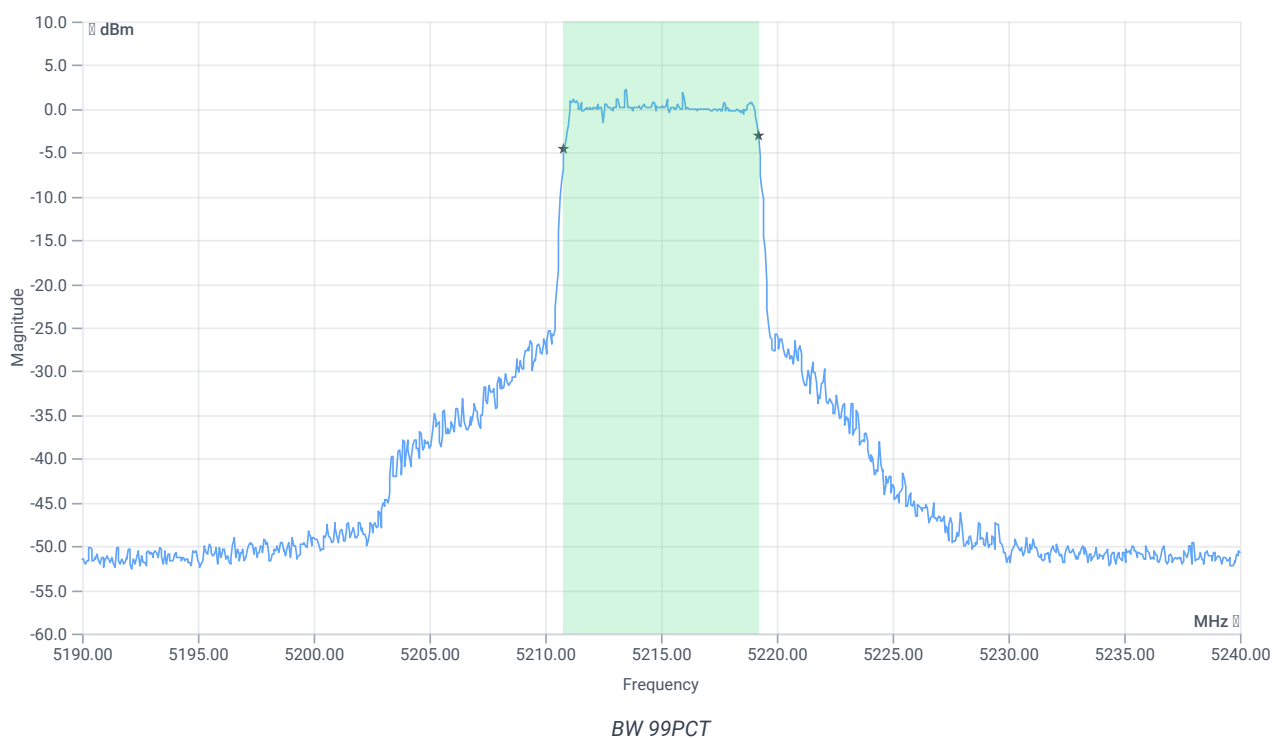
Test at TX 5215 MHz

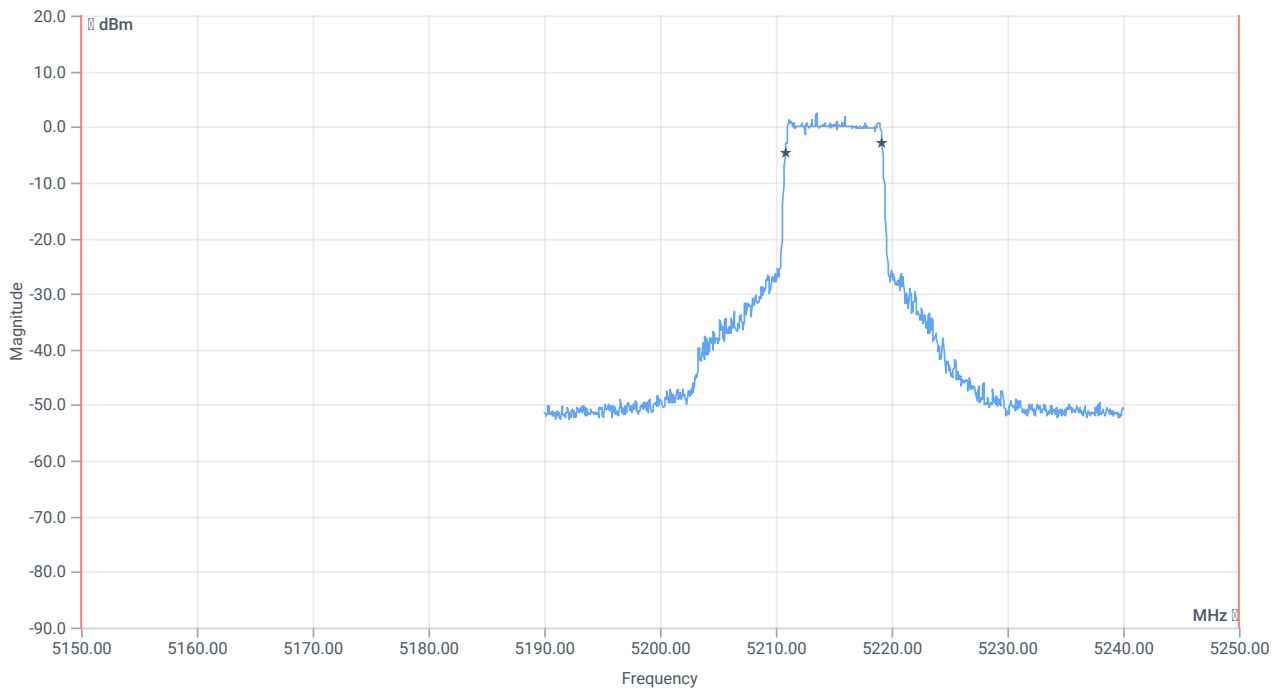
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.61	dBm	INFO
Ref. frequency	---	---	5215.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.61 5.46 25
Start [MHz] Stop [MHz]	5190.000 5240.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

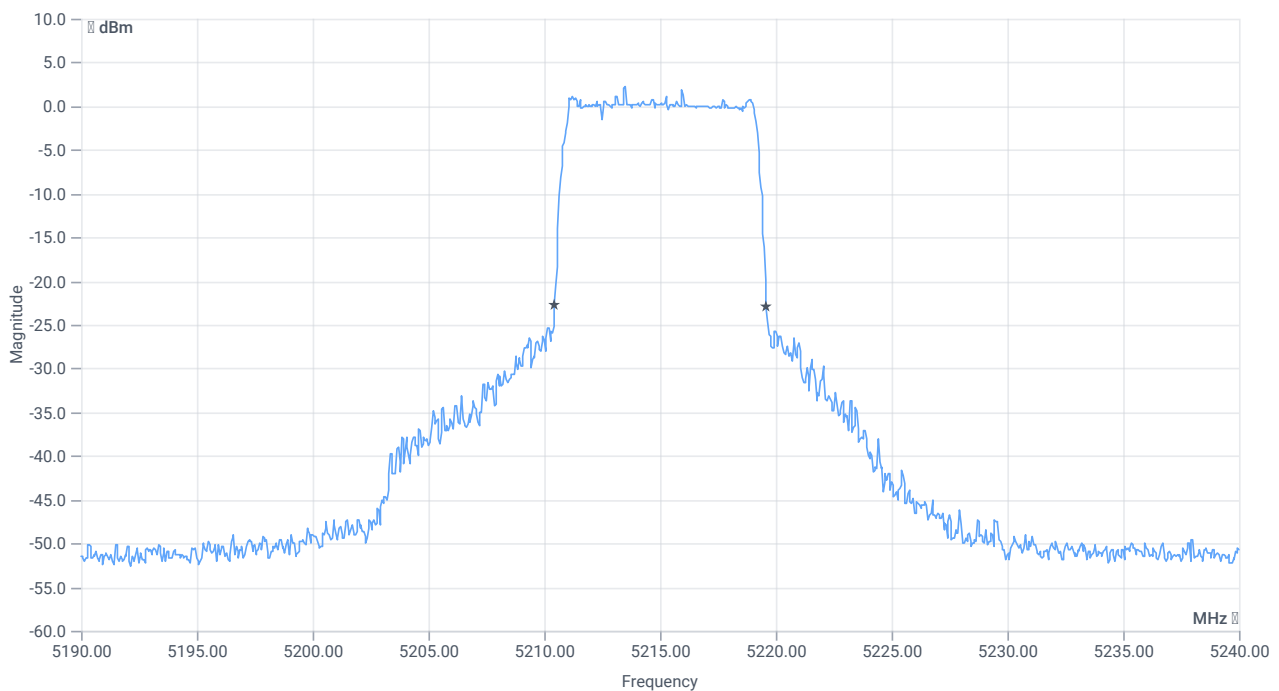




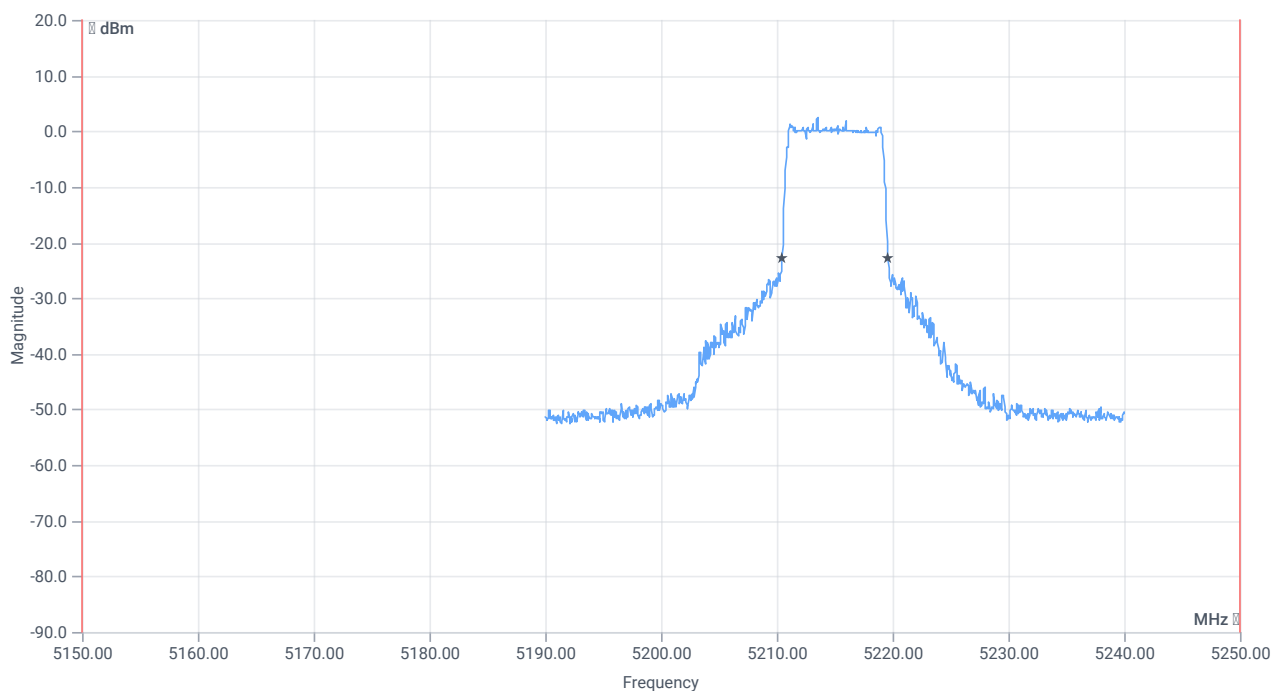
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5150.000000	---	5210.8042	MHz	PASS
T2 99%	---	5250.000000	5219.1958	MHz	PASS



BW 26dB



BW within band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.15	MHz	INFO
T1 26dB	5150.000000	---	5210.4500	MHz	PASS
T2 26dB	---	5250.000000	5219.6000	MHz	PASS

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:41:44
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-1
Information	Ant 17

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110
Message start	20.08.2026 10:41:46
Message	set WLAN5Gx to a_U-NII-1 Frequency [MHz]: 5240 Power setting: 4 Port: EUT2 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:43:07
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5245
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5245 MHz

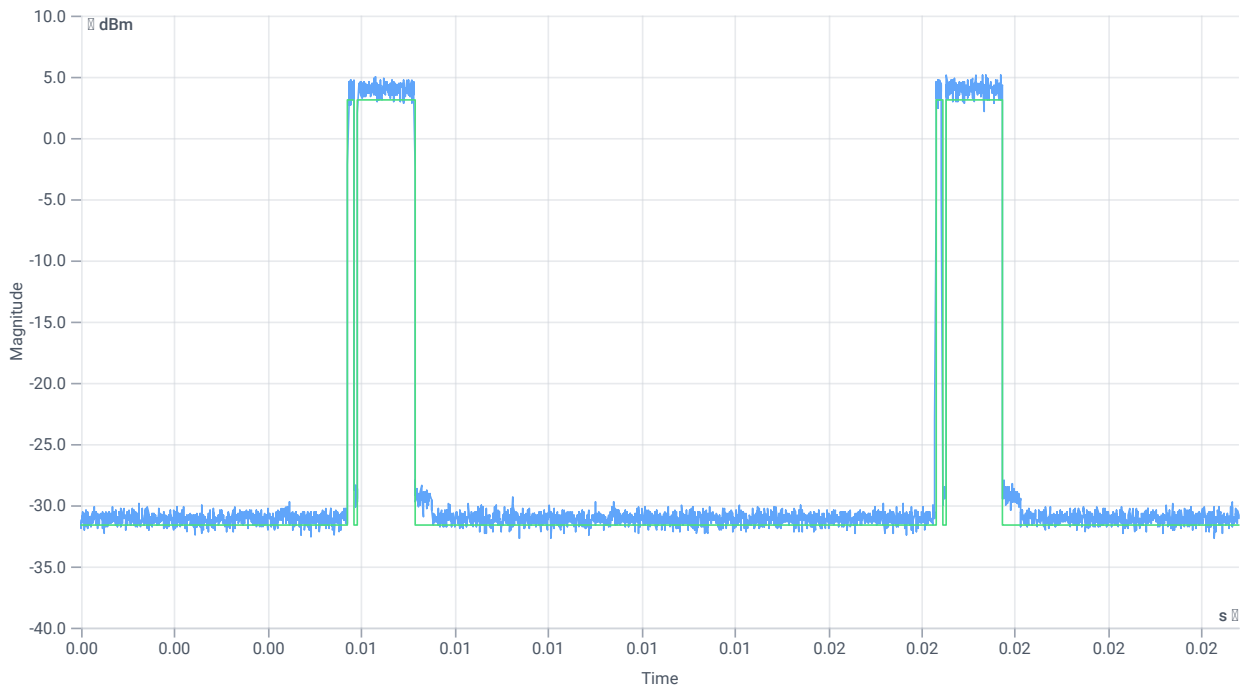
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.82	dBm	INFO
Ref. frequency	---	---	5246.000	MHz	INFO

Evaluation max. duty cycle

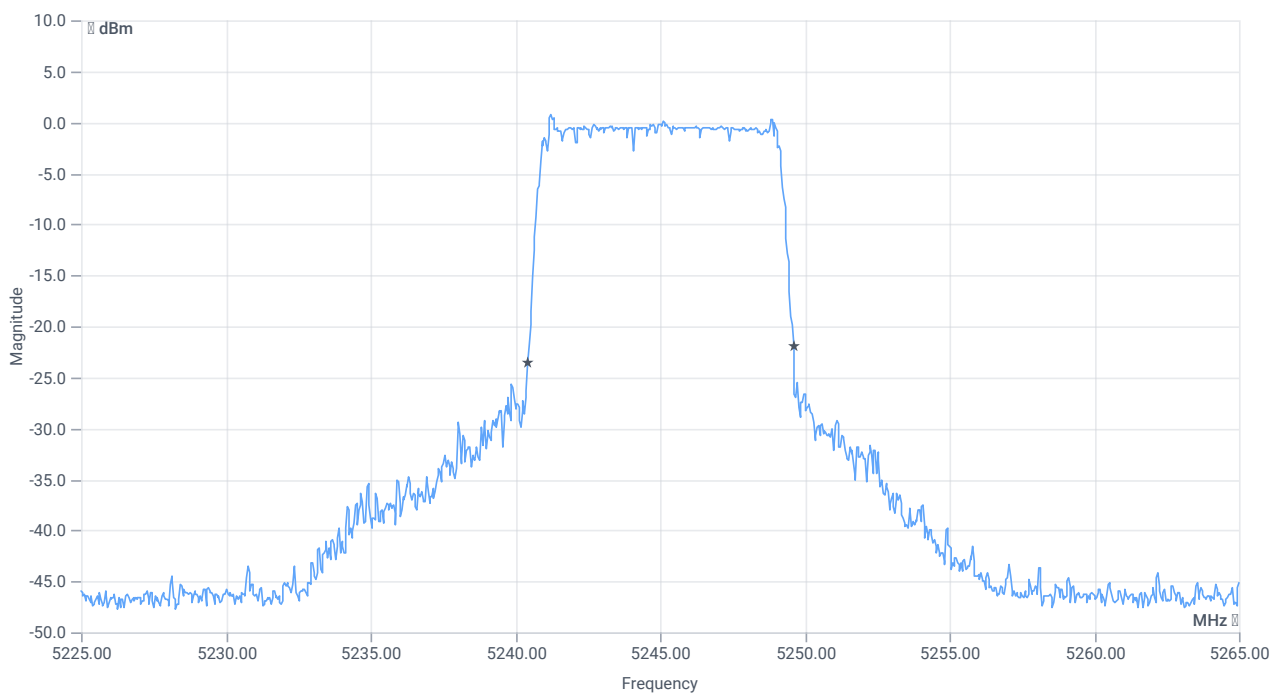
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	3.12	dBm	INFO
Estimated noise floor	---	---	-31.64	dBm	INFO
Dynamic range (ON - noise)	---	---	34.75	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

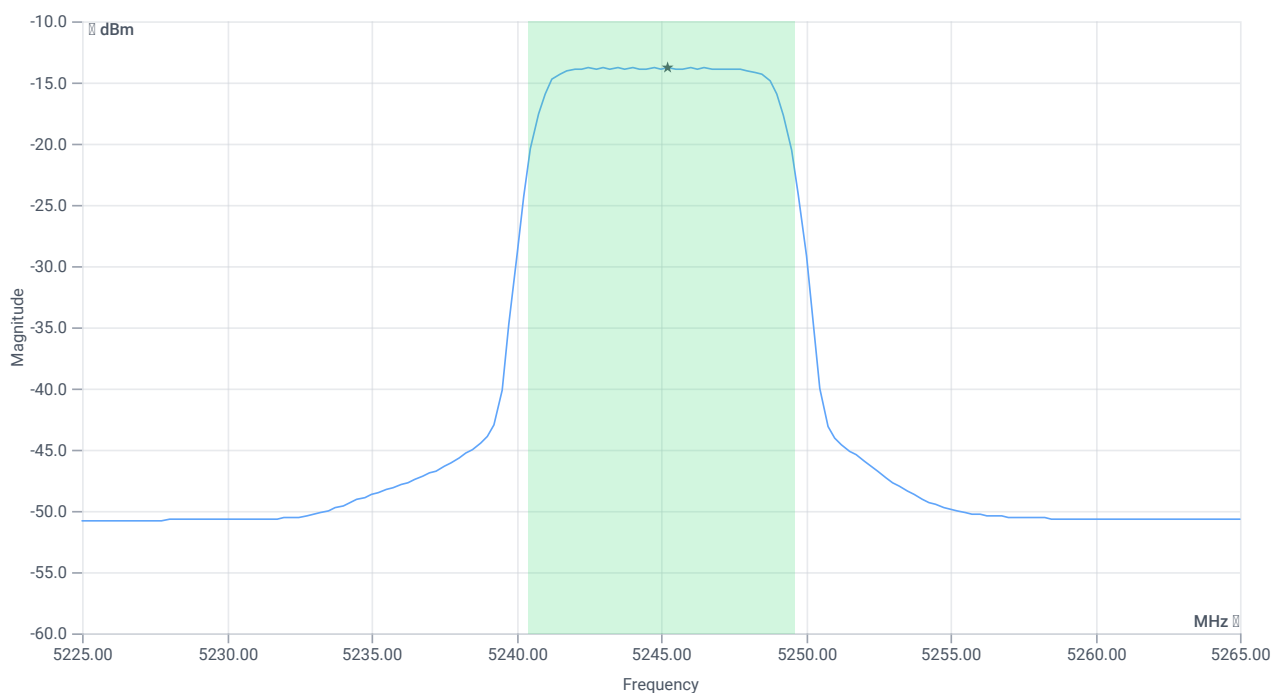
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.16	MHz	INFO
T1 26dB	---	---	5240.4400	MHz	INFO
T2 26dB	---	---	5249.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.82 5.51 30
Start [MHz] Stop [MHz]	5225.000 5265.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-5.03	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	24	5.05	dBm	PASS
---	----	------	-----	------

LIMIT: 11 dBm + 10 log 9.16

Max output power DC --- corrected cond	N/A	5.05	dBm	N/A
---	-----	------	-----	-----

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-13.73	dBm/MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Power spectral density DC corrected cond	---	11	-3.65	dBm/MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:44:41
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5245
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5245 MHz

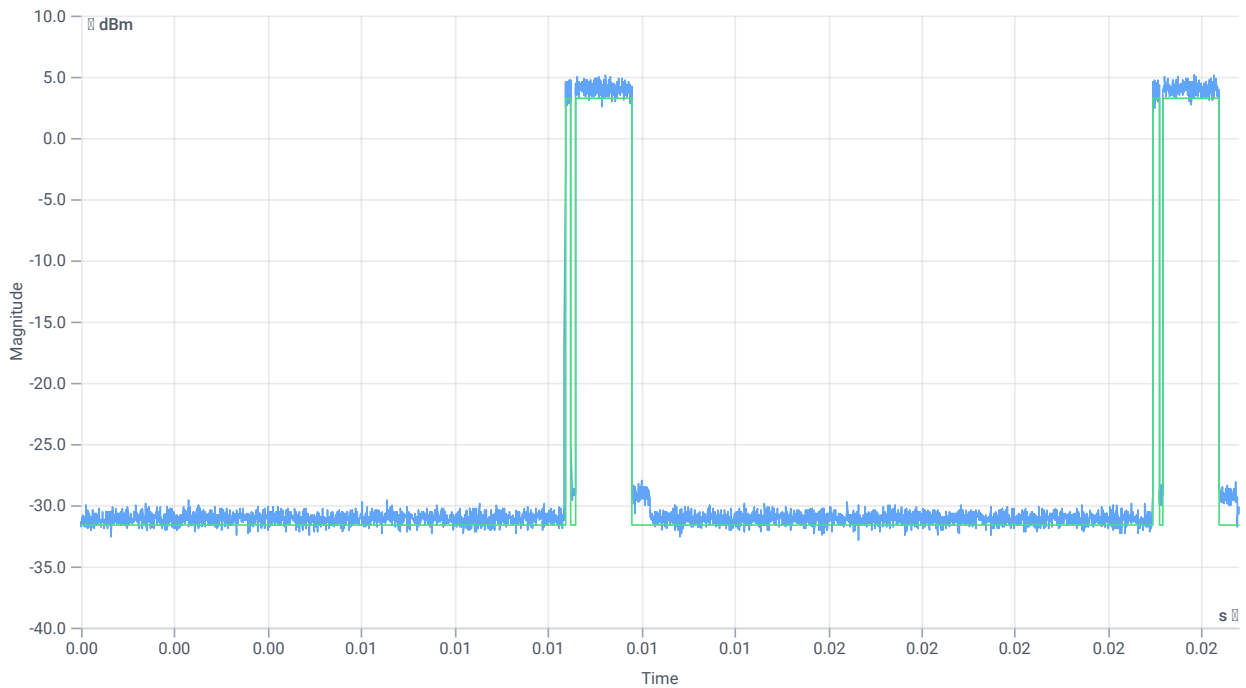
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.86	dBm	INFO
Ref. frequency	---	---	5248.400	MHz	INFO

Evaluation max. duty cycle

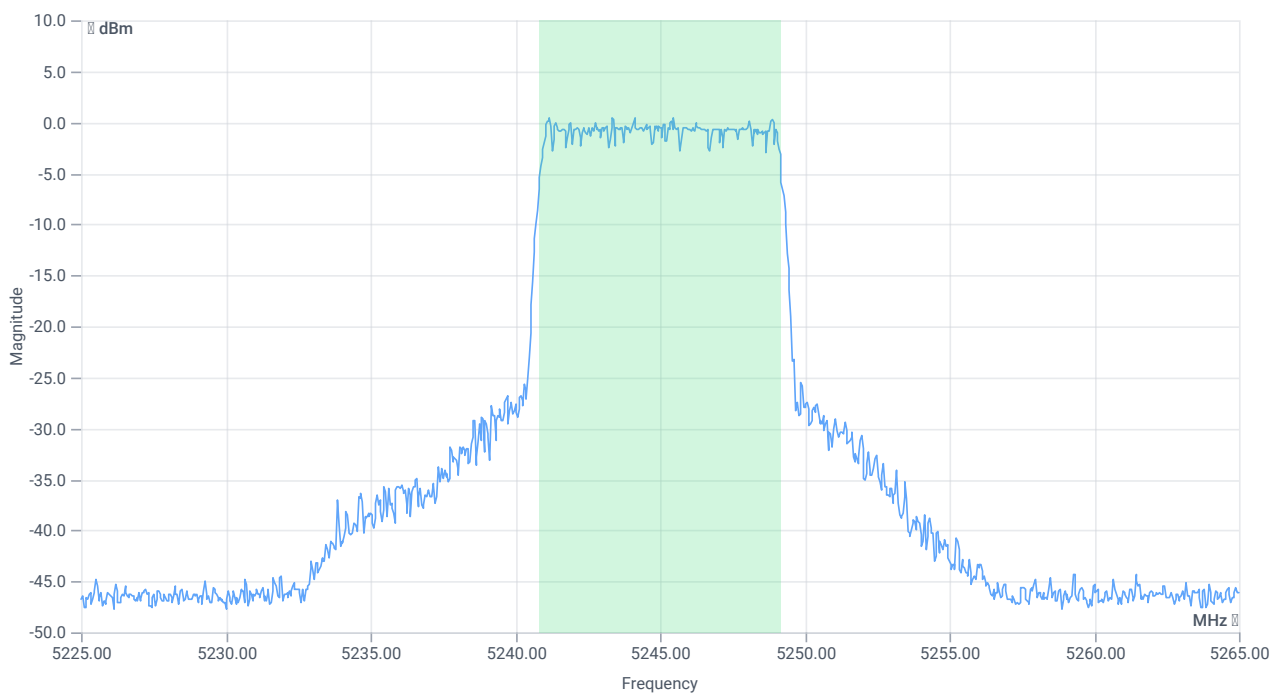
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	3.22	dBm	INFO
Estimated noise floor	---	---	-31.62	dBm	INFO
Dynamic range (ON - noise)	---	---	34.84	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.352	MHz	INFO
T1 99%	---	---	5240.8442	MHz	INFO
T2 99%	---	---	5249.1958	MHz	INFO

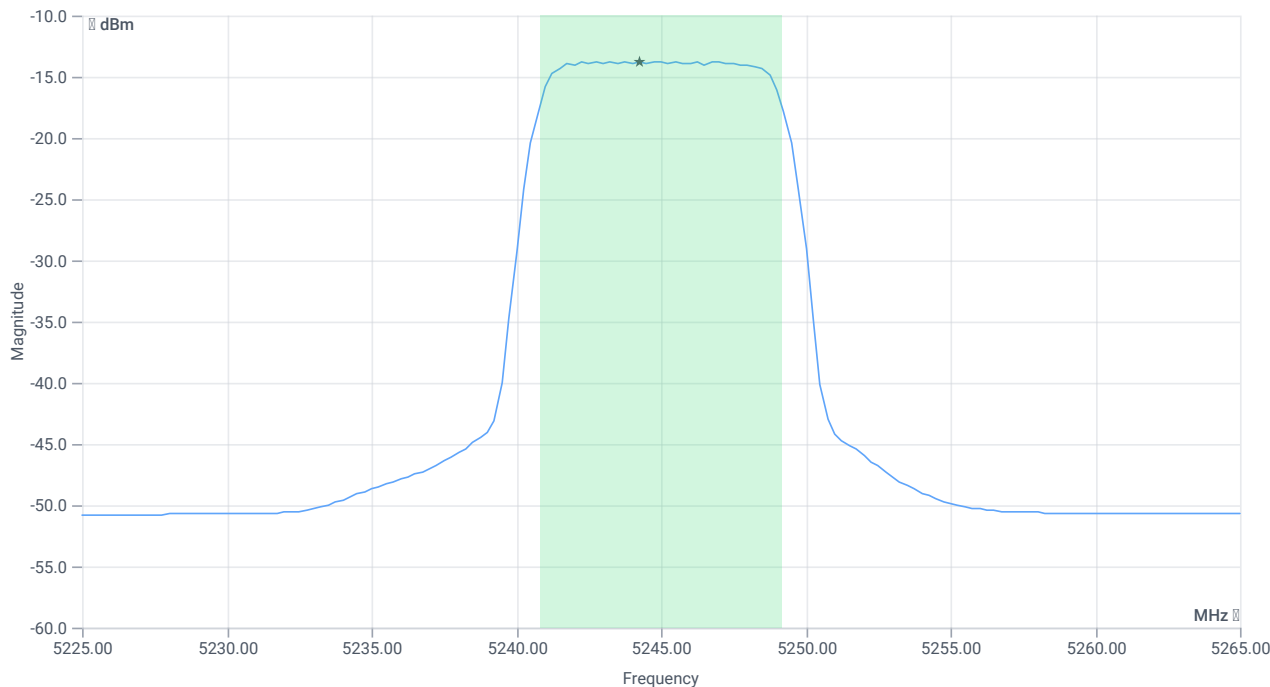
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 6.8 @ 5245 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.86 5.51 30
Start [MHz] Stop [MHz]	5225.000 5265.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-5.17	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO
Max output power DC corrected cond	---	---	4.91	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	11.71	dBm	PASS
LIMIT: 10 dBm + 10 log 8.352					
Max output power DC corrected eirp	---	19.22	11.71	dBm	PASS
Power spectral density eirp	---		-6.94	dBm/MHz	INFO
Power spectral density DC corrected eirp	---	10	3.14	dBm/MHz	PASS
LIMIT absolute cond (RSS-247 §6.2.1)					
Max output power DC corrected cond	---	24	4.91	dBm	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-1

References

TC start	20.08.2026 10:46:15
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-1
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5245
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

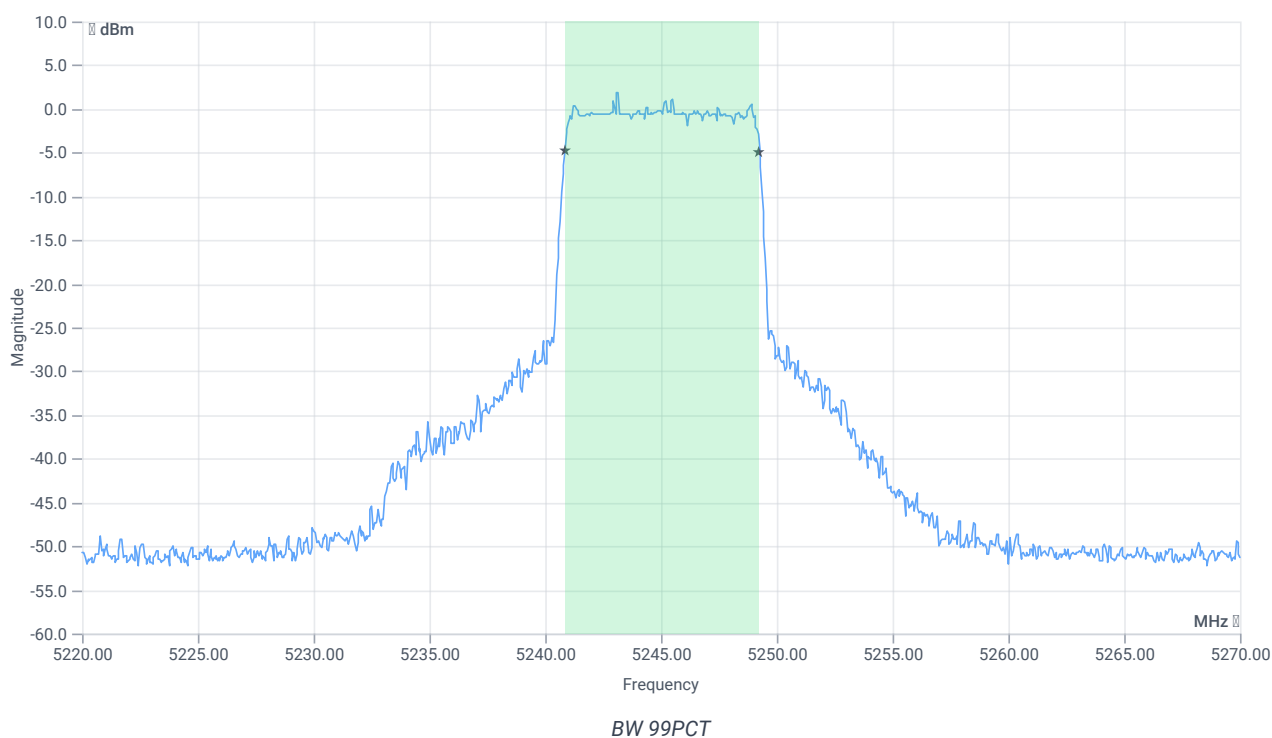
Test at TX 5245 MHz

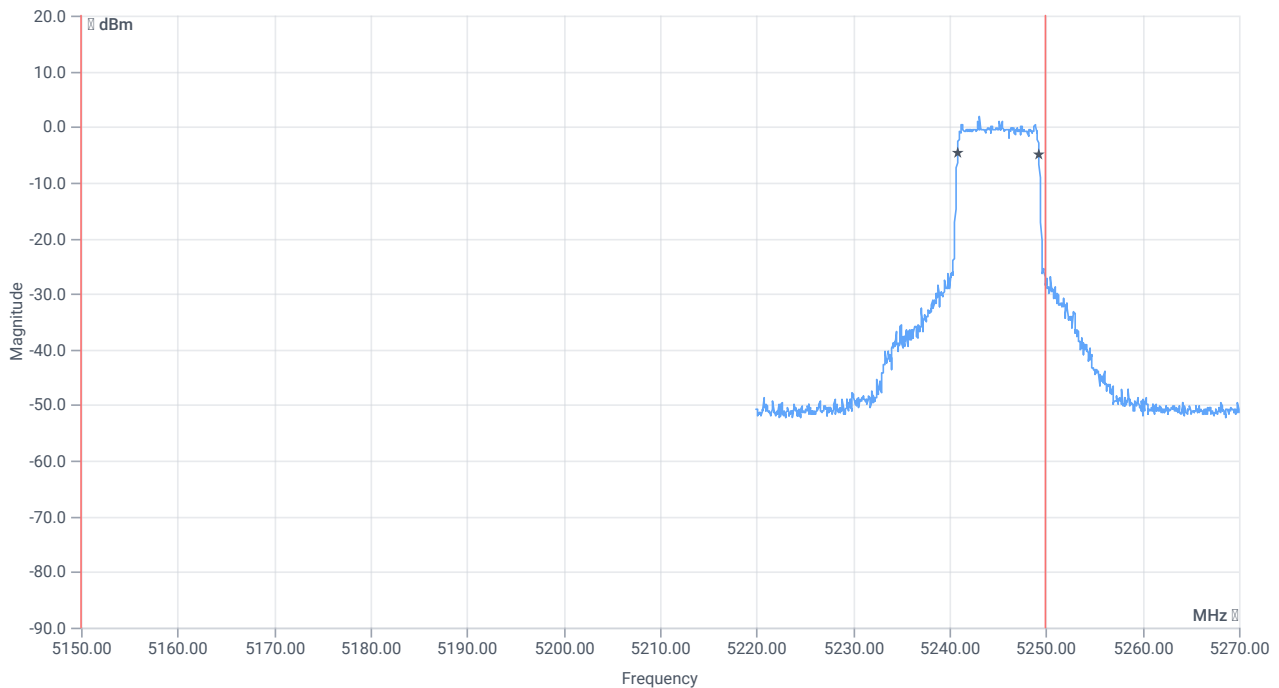
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.50	dBm	INFO
Ref. frequency	---	---	5242.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.50 5.51 25
Start [MHz] Stop [MHz]	5220.000 5270.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

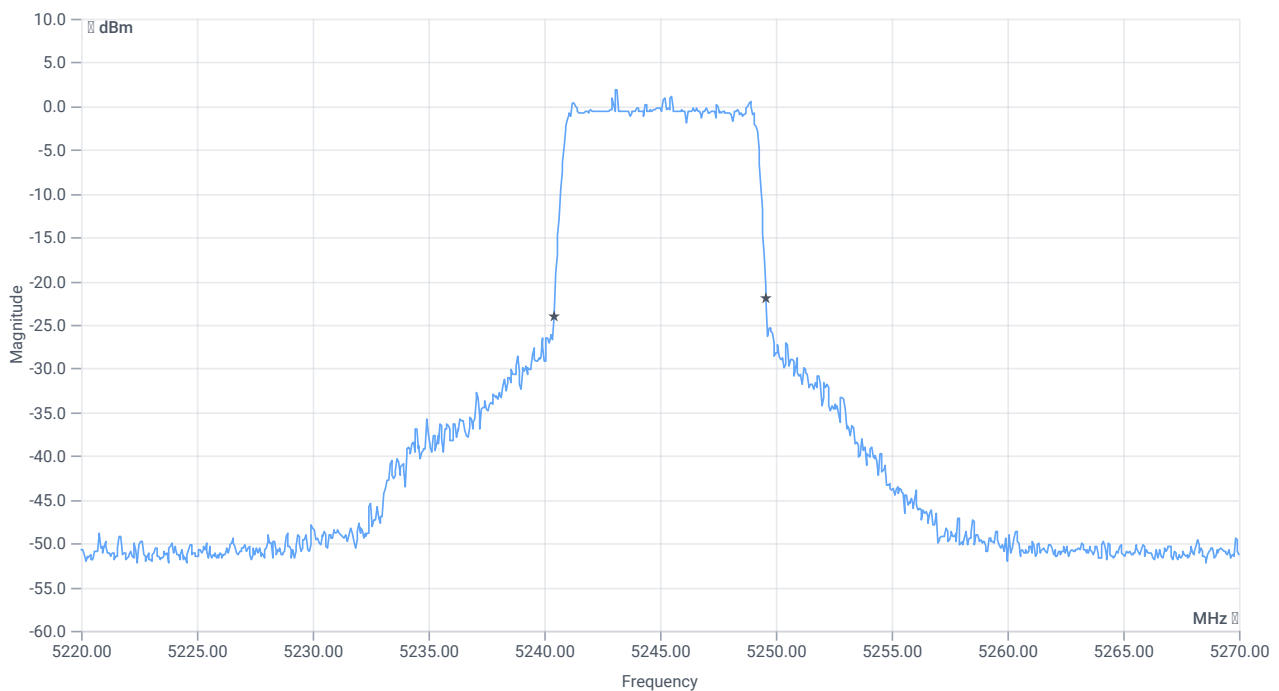




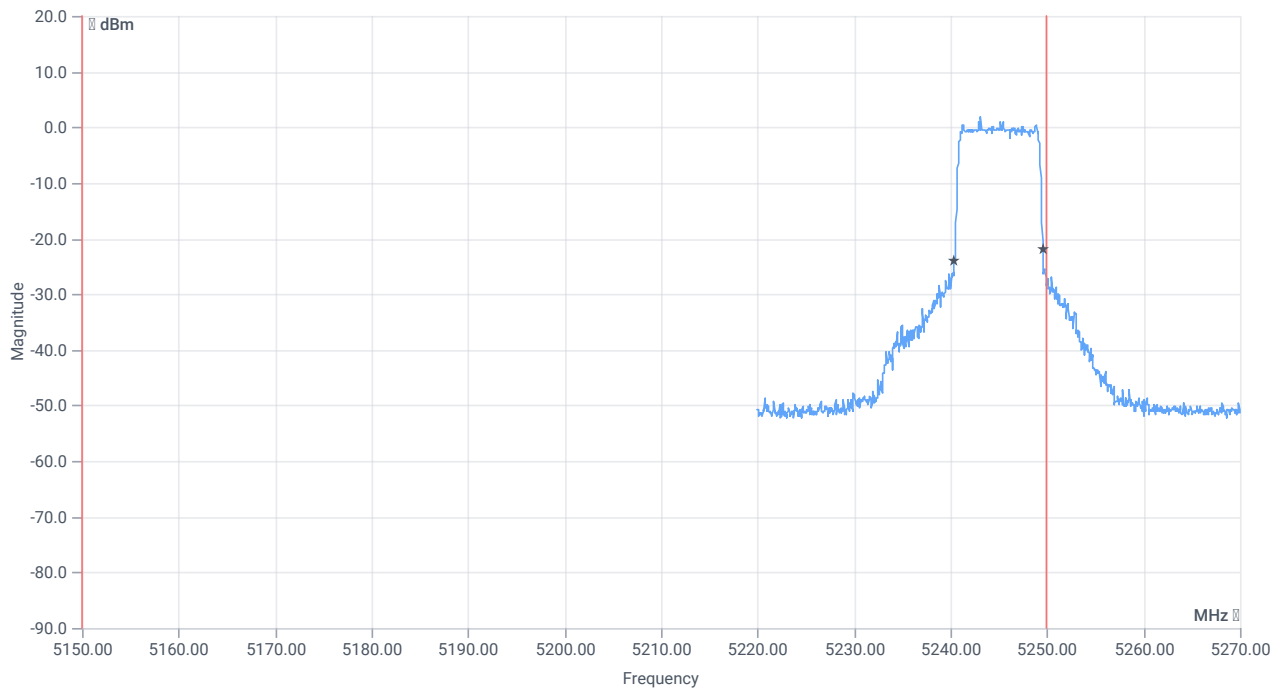
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5150.000000	---	5240.8541	MHz	PASS
T2 99%	---	5250.000000	5249.2458	MHz	PASS



BW 26dB



BW within band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.2	MHz	INFO
T1 26dB	5150.000000	---	5240.4000	MHz	PASS
T2 26dB	---	5250.000000	5249.6000	MHz	PASS

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:48:06
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-3
Information	Ant 17

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110
Message start	20.08.2026 10:48:09
Message	set WLAN5Gx to a_U-NII-3 Frequency [MHz]: 5745 Power setting: 4 Port: EUT1 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:50:48
Ambit temp (test rack) [°C] humidity [rel%]	26.0 45
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5730 MHz

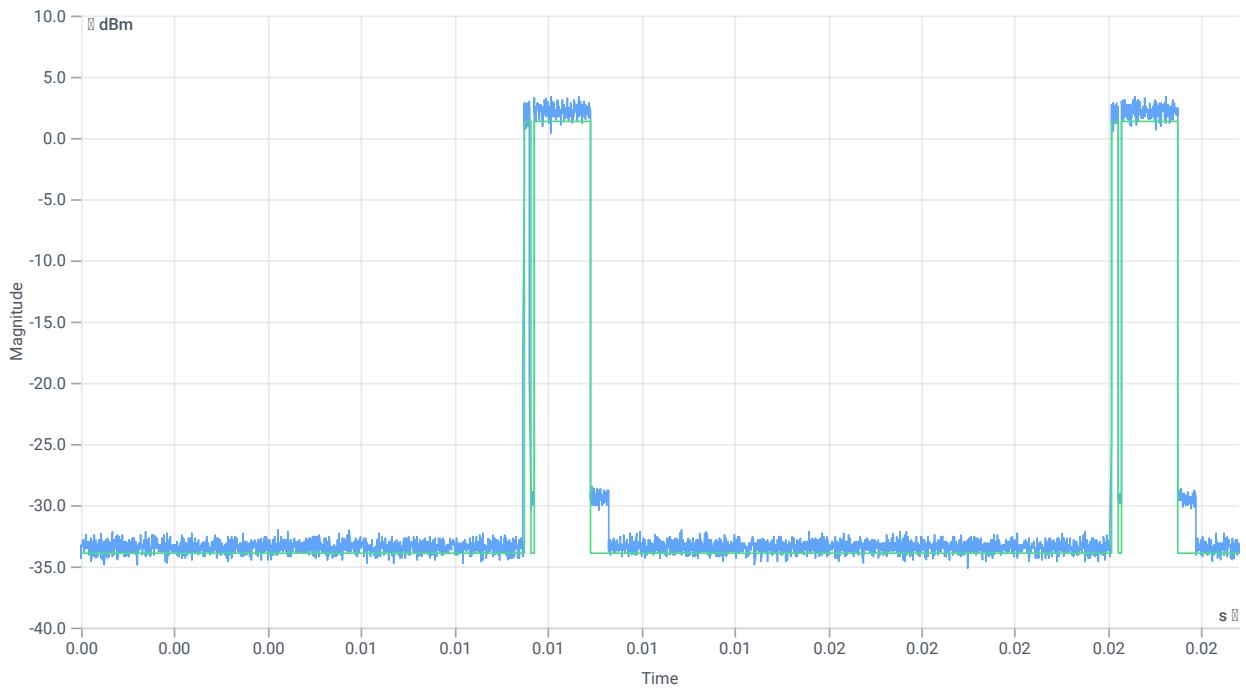
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.98	dBm	INFO
Ref. frequency	---	---	5729.800	MHz	INFO

Evaluation max. duty cycle

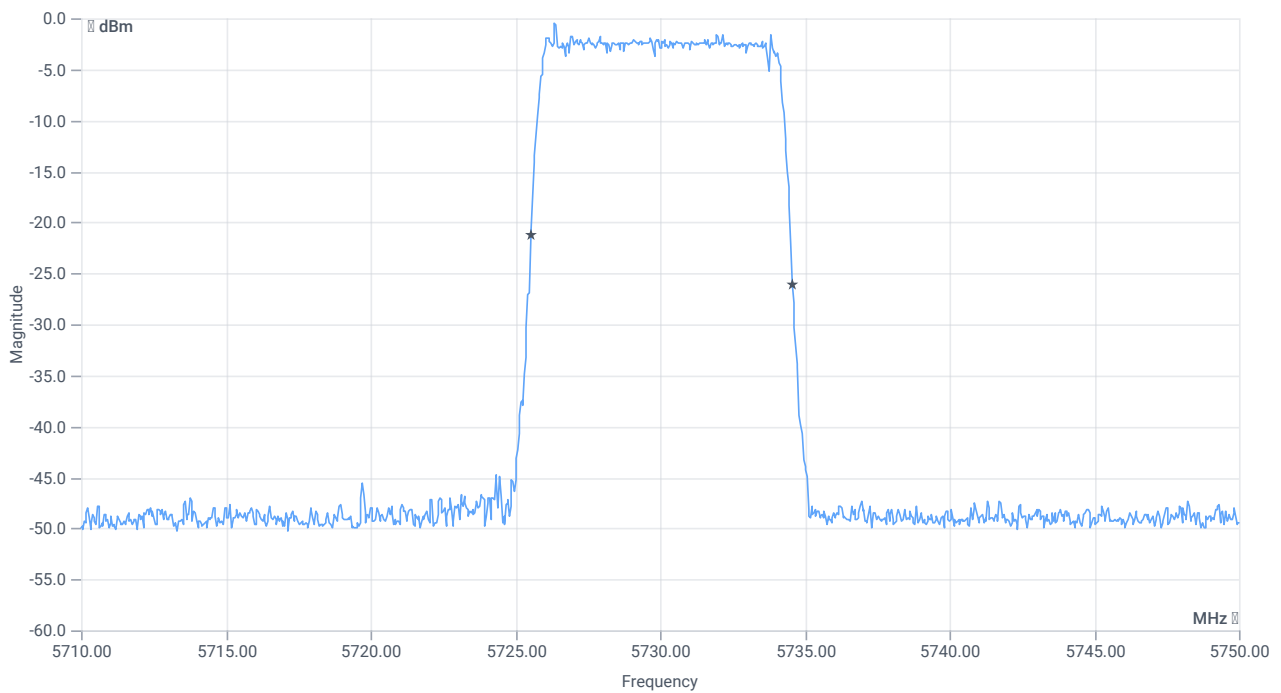
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.3	dBm	INFO
Estimated noise floor	---	---	-33.96	dBm	INFO
Dynamic range (ON - noise)	---	---	35.26	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

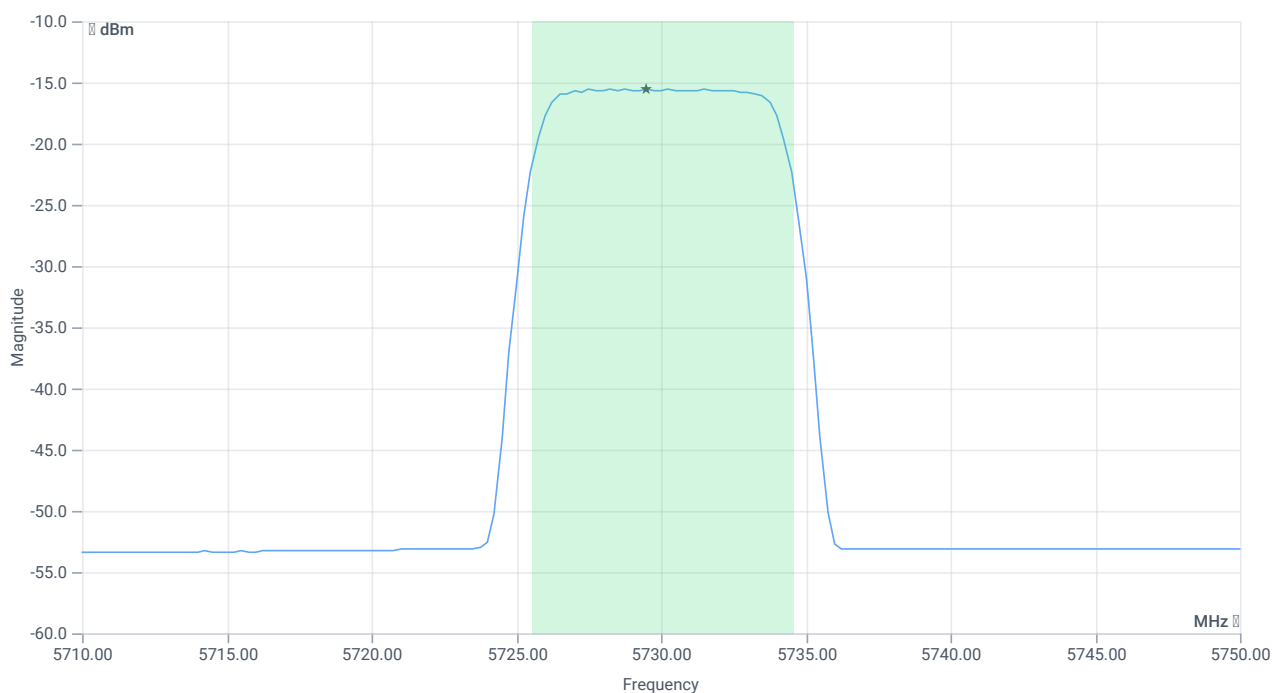
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.04	MHz	INFO
T1 26dB	---	---	5725.5200	MHz	INFO
T2 26dB	---	---	5734.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.98 5.94 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-6.84	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

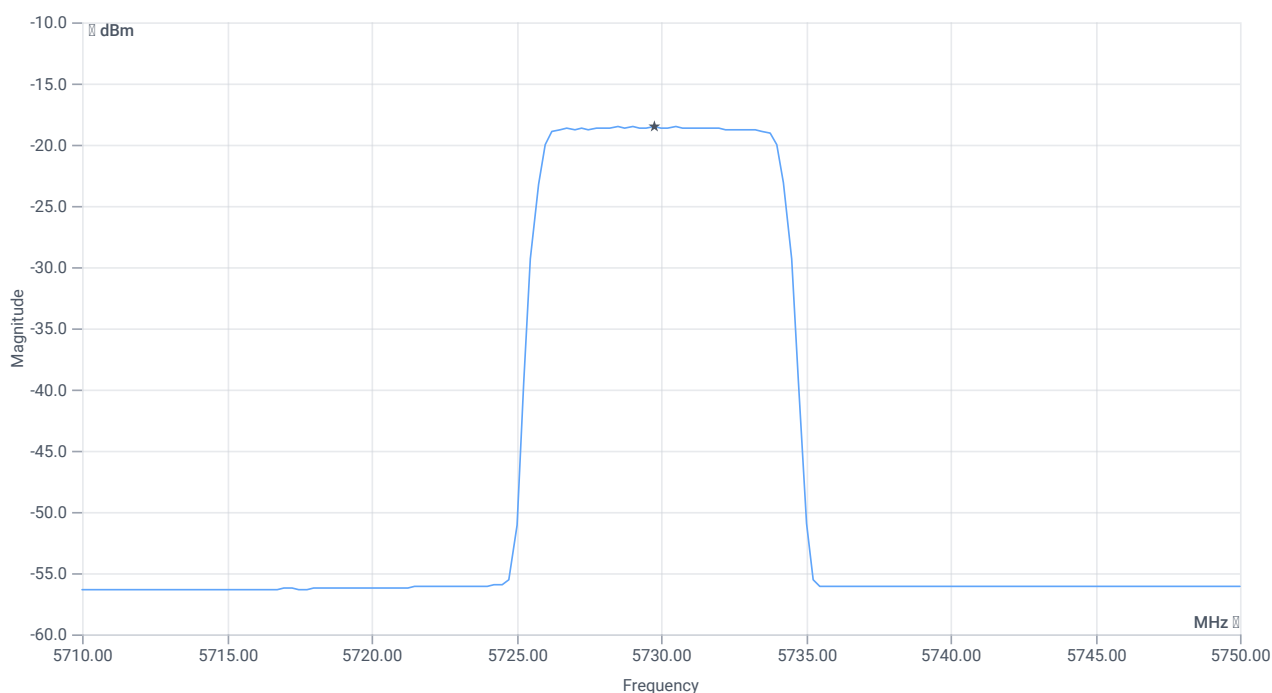
CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	30	3.24	dBm	PASS
LIMIT: 11 dBm + 10 log 9.04				
Max output power DC --- corrected cond	N/A	3.24	dBm	N/A

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.98 5.94 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-18.48	dBm/0.5MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Power spectral density DC corrected cond	--	30	-8.4	dBm/0.5MHz	PASS
--	----	----	------	------------	------

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:53:29
Ambit temp (test rack) [°C] humidity [rel%]	26.1 44
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5730 MHz

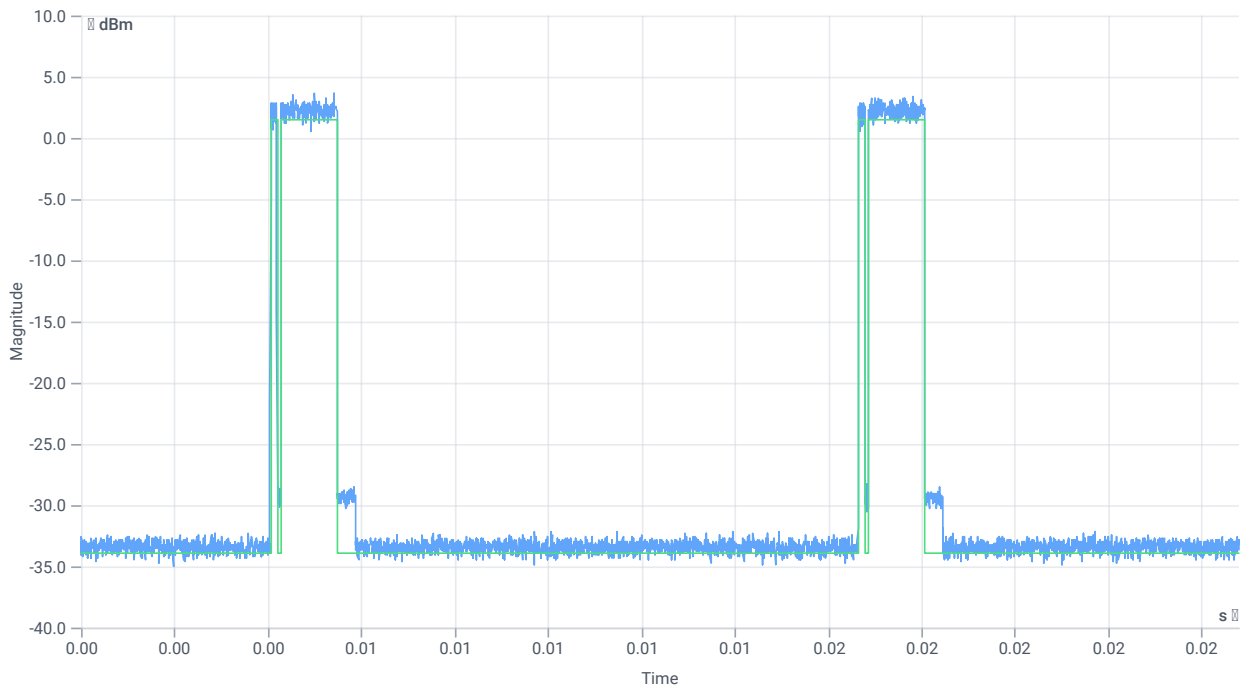
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.98	dBm	INFO
Ref. frequency	---	---	5730.800	MHz	INFO

Evaluation max. duty cycle

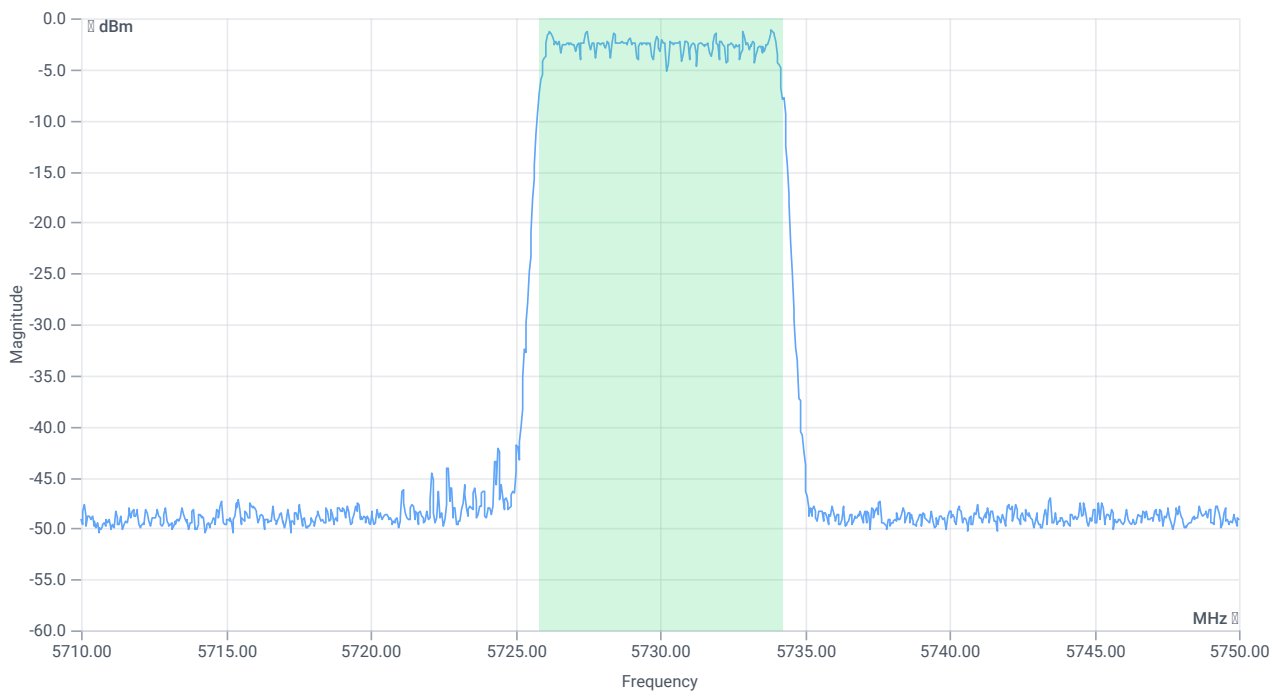
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.43	dBm	INFO
Estimated noise floor	---	---	-33.98	dBm	INFO
Dynamic range (ON - noise)	---	---	35.41	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	---	---	5725.8442	MHz	INFO
T2 99%	---	---	5734.2358	MHz	INFO

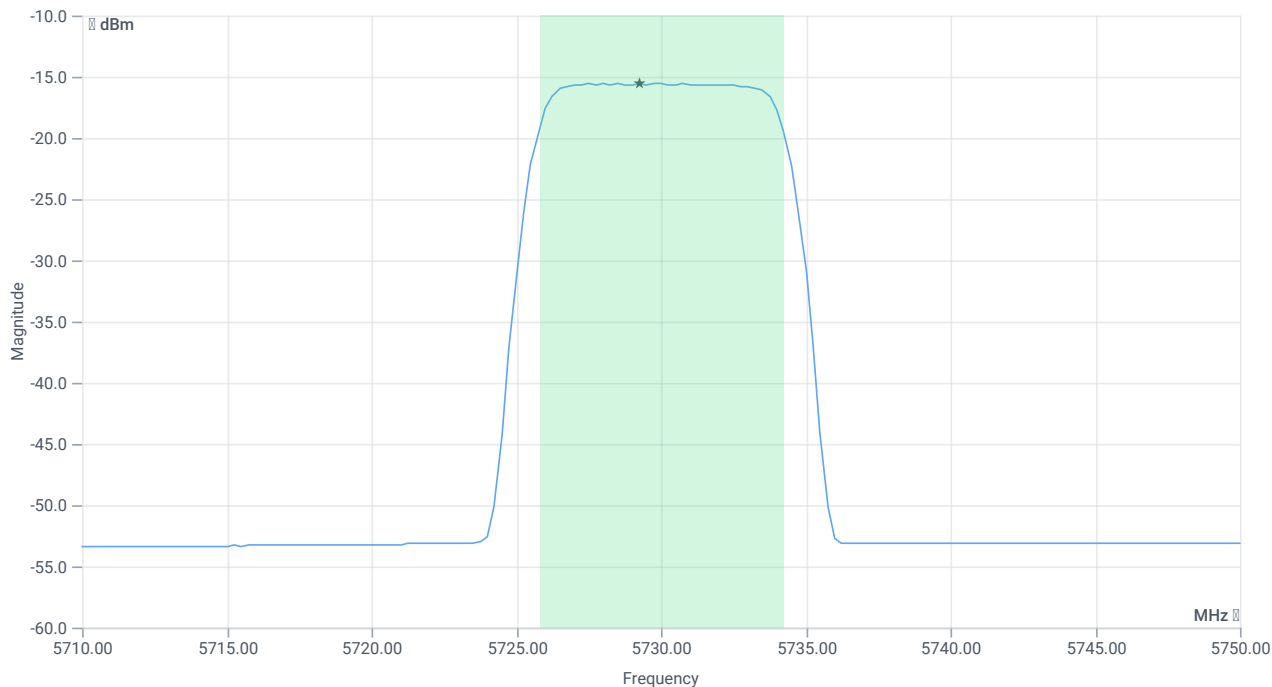
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 5.8 @ 5730 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.98 5.94 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

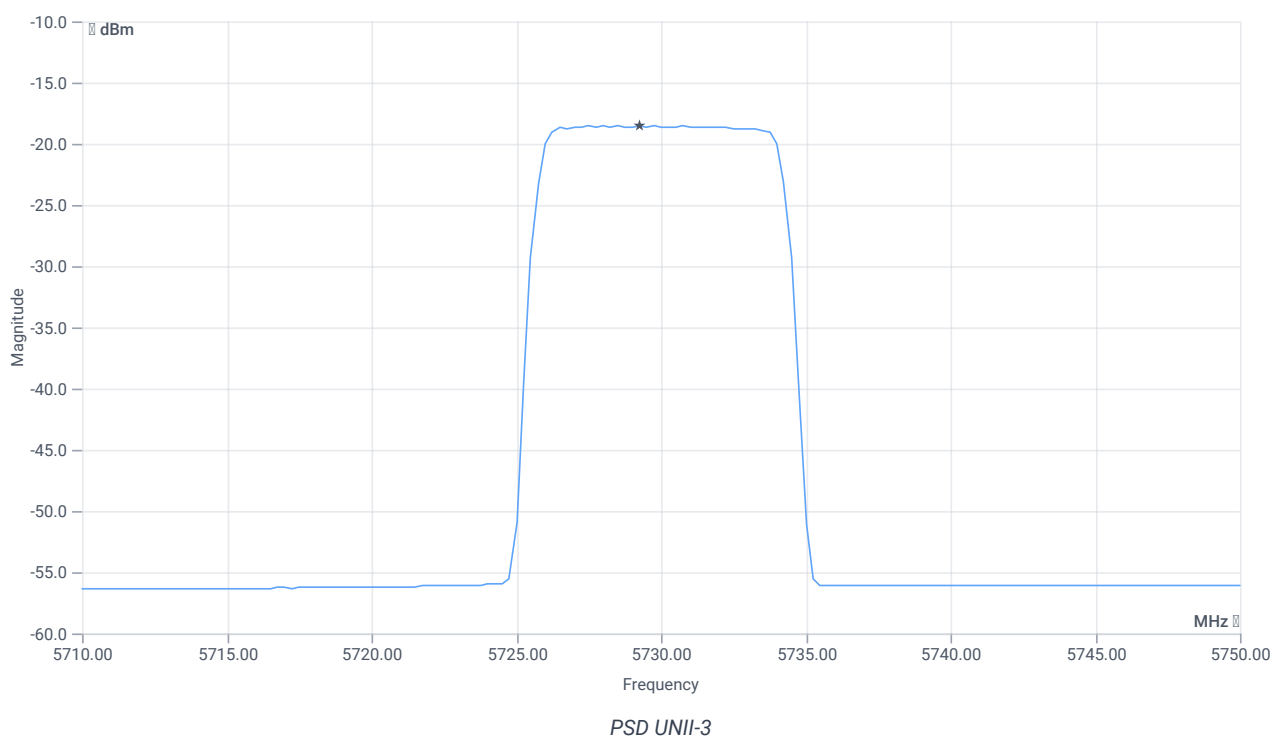
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-6.94	dBm	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty cycle correction	---	---	10.08	dB	INFO
LIMIT absolute cond					
Max output power DC corrected cond	---	30	3.14	dBm	PASS
Antenna gain applied			5.8	dBi	INFO
LIMIT absolute eirp (RSS-247 §6.2.4)					
Max output power DC corrected eirp	---	36	8.94	dBm	PASS

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.98 5.94 25
Start [MHz] Stop [MHz]	5710.000 5750.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density cond	---		-18.5	dBm/0.5MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density DC corrected cond	--	30	-8.42	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:56:08
Ambit temp (test rack) [°C] humidity [rel%]	26.1 44
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5730 MHz

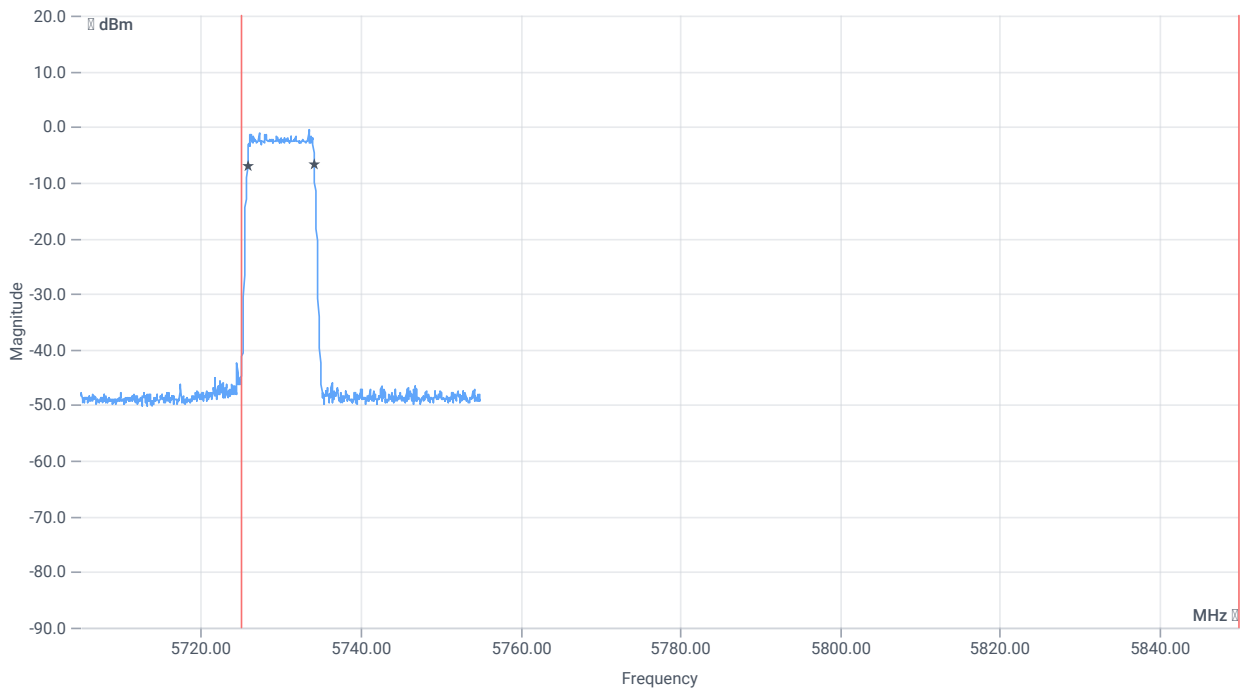
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.96	dBm	INFO
Ref. frequency	---	---	5731.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.96 5.94 25
Start [MHz] Stop [MHz]	5705.000 5755.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

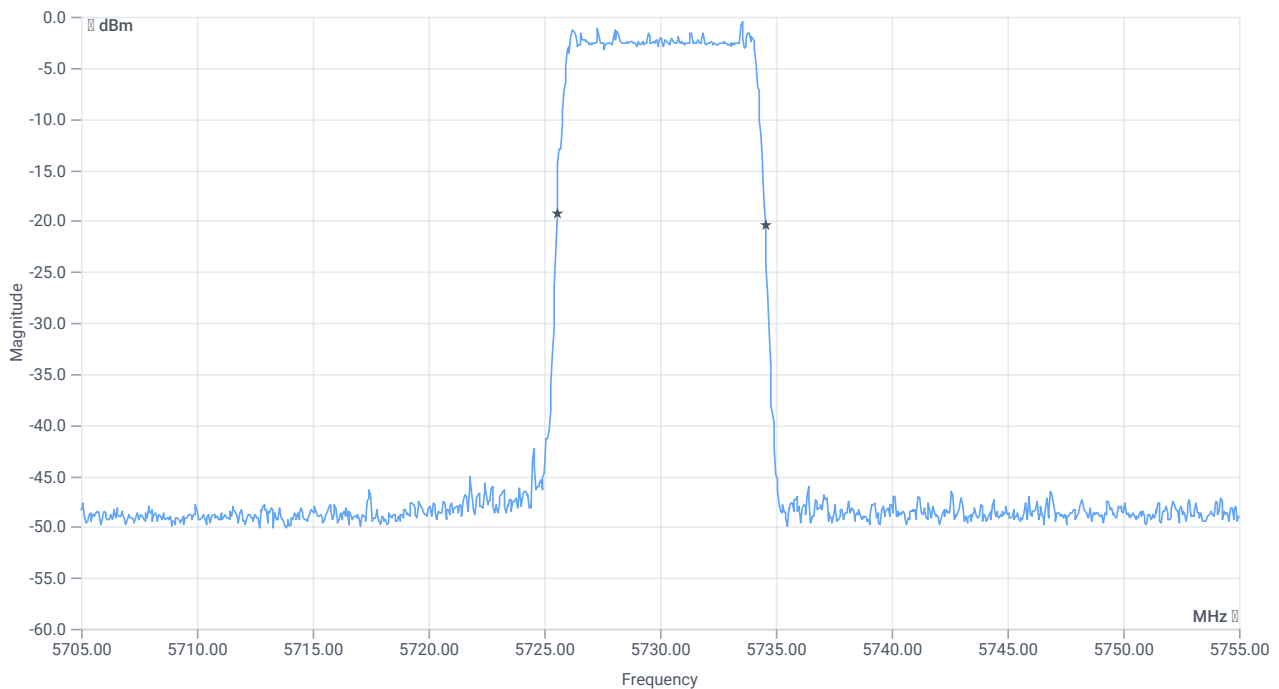




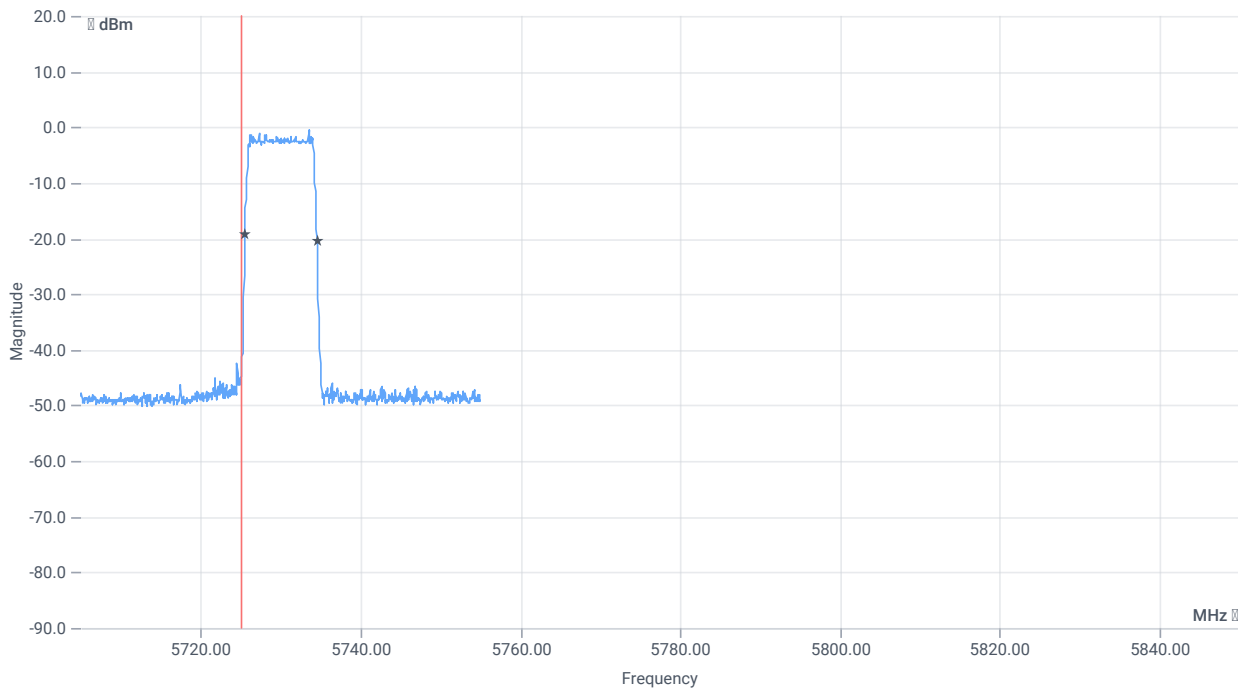
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.342	MHz	INFO
T1 99%	5725.000000	---	5725.8541	MHz	PASS
T2 99%	---	5850.000000	5734.1958	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	9	MHz	INFO
T1 20dB	5725.000000	---	5725.5500	MHz	PASS
T2 20dB	---	5850.000000	5734.5500	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:56:39
Ambit temp (test rack) [°C] humidity [rel%]	26.1 44
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min emission BW - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

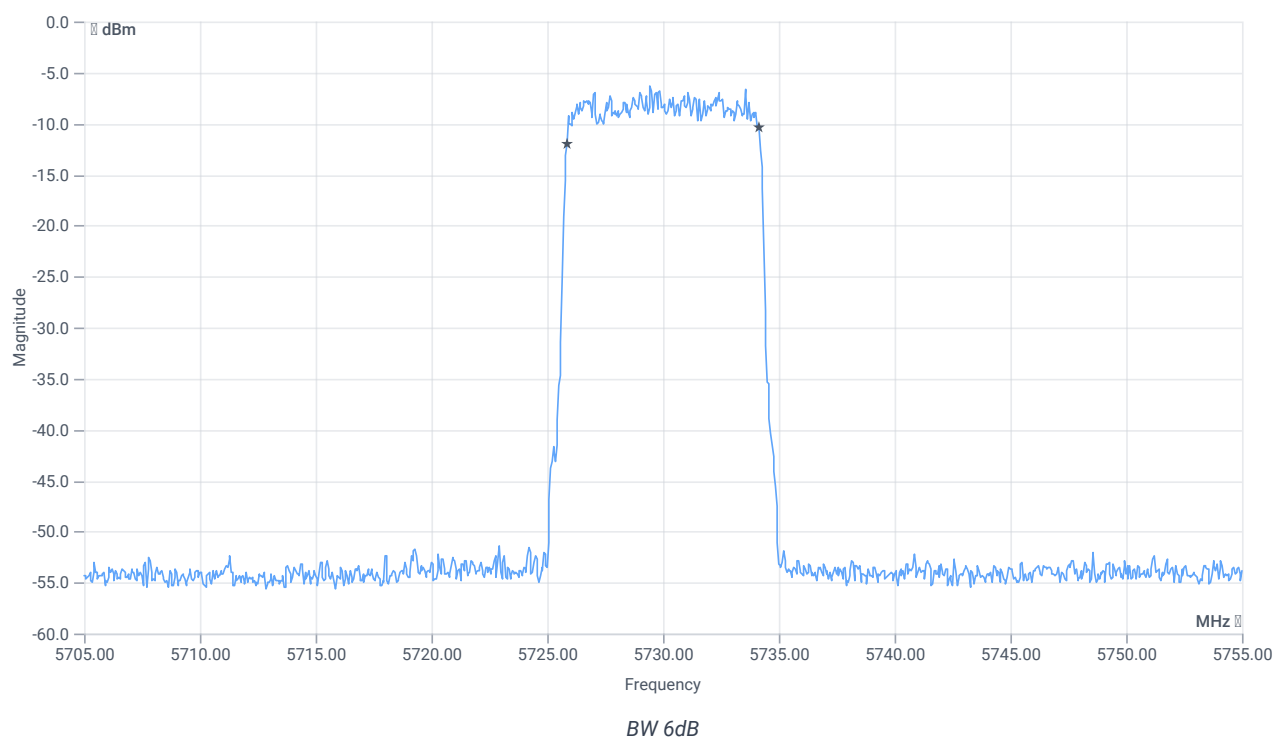
Test at TX 5730 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.90	dBm	INFO
Ref. frequency	---	---	5730.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.90 5.94 25
Start [MHz] Stop [MHz]	5705.000 5755.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	8.3	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:57:22
Ambit temp (test rack) [°C] humidity [rel%]	26.1 44
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5730
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5730 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

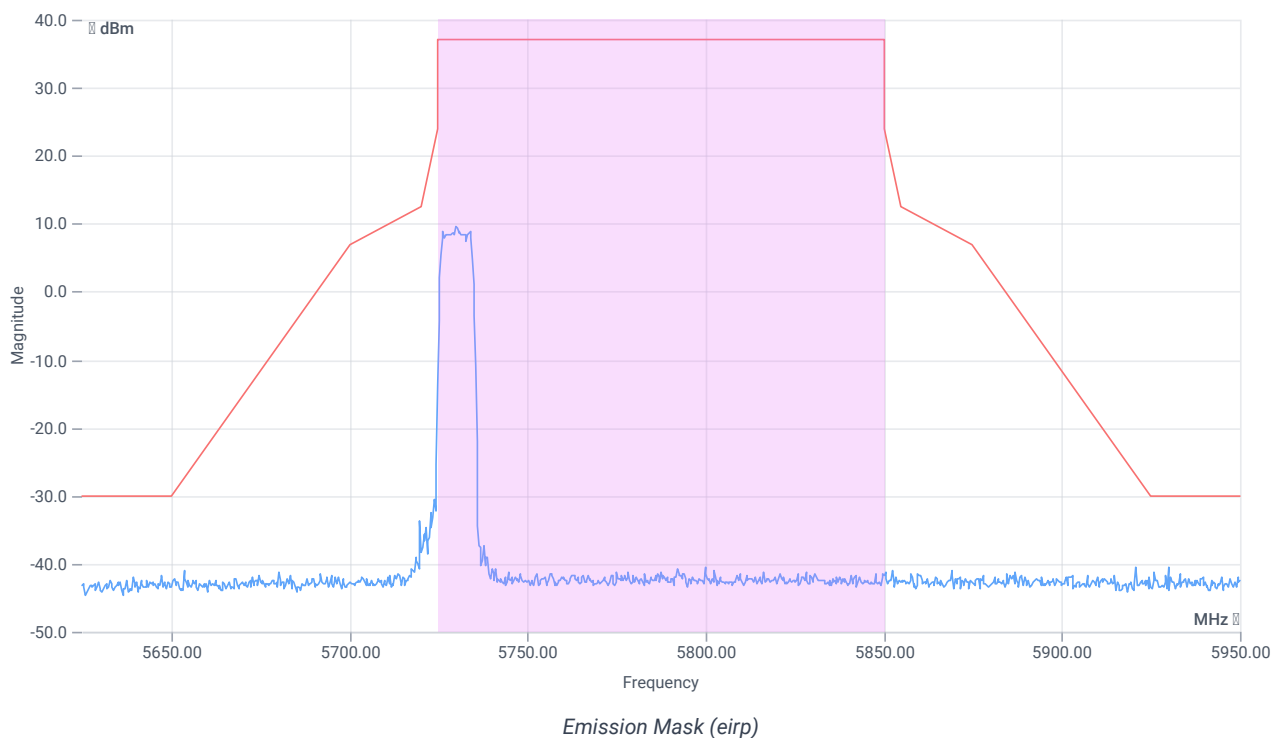
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.75	dBm	INFO
Ref. frequency	---	---	5730.000	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	5.8 / max found in range 5625 to 5950 MHz
--------------------------------	---

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.75 5.94 20
Start [MHz] Stop [MHz]	5625.000 5950.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
cetecom advanced GmbH Untertürkheimer Str. 6-10, 66117 Saarbrücken			Document No. 1-3399-26-02-03_TR1-A201-R01 Release 1 - Page 178 of 223		

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:57:58
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-3
Information	Ant 17

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110
Message start	20.08.2026 10:58:01
Message	set WLAN5Gx to a_U-NII-3 Frequency [MHz]: 5785 Power setting: 4 Port: EUT1 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 10:59:54
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5775
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5775 MHz

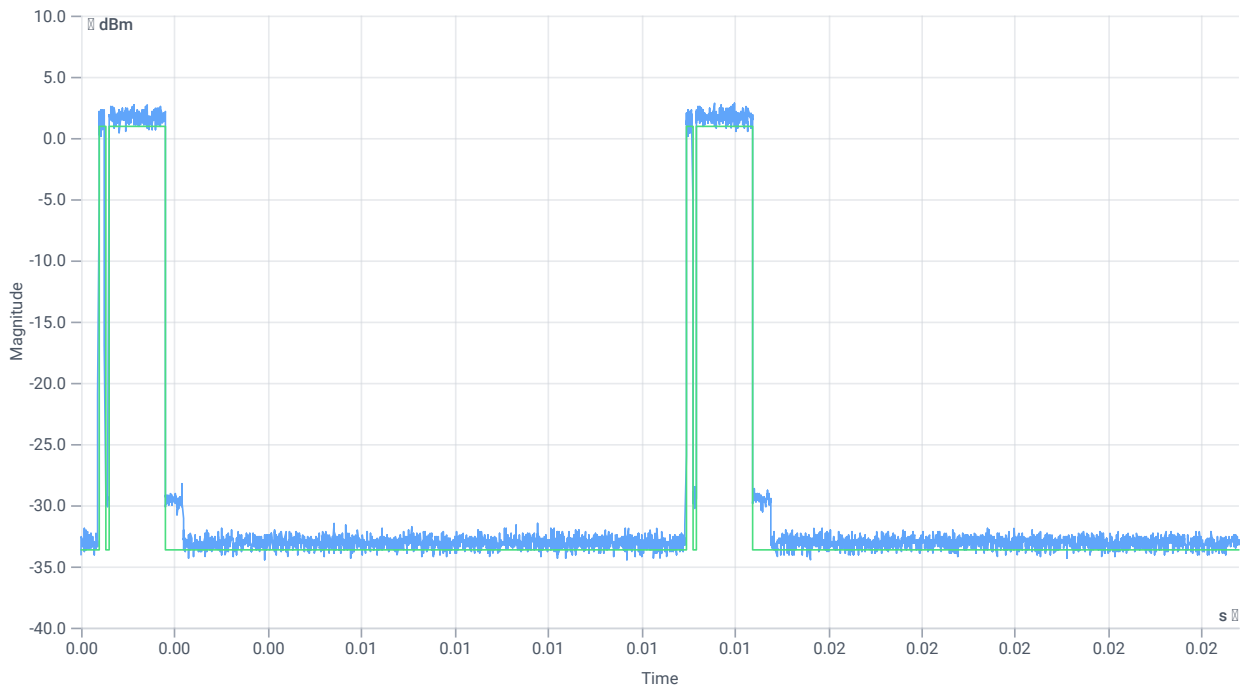
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.15	dBm	INFO
Ref. frequency	---	---	5774.200	MHz	INFO

Evaluation max. duty cycle

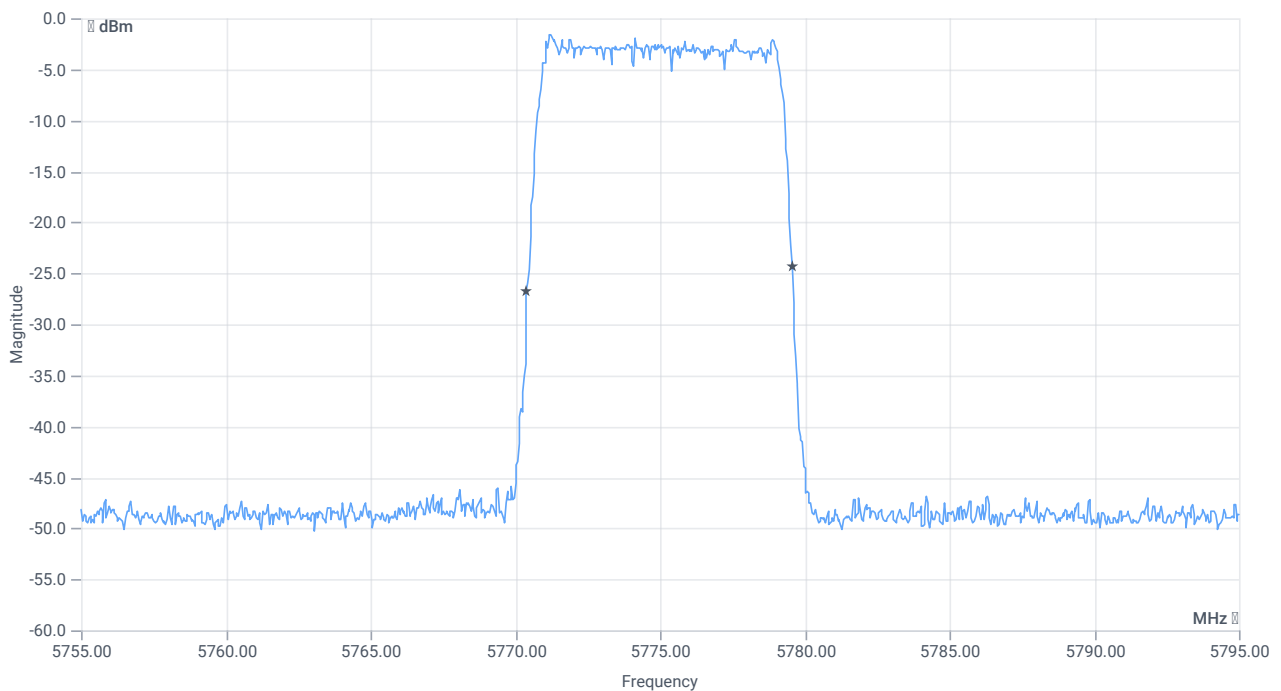
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	0.91	dBm	INFO
Estimated noise floor	---	---	-33.6	dBm	INFO
Dynamic range (ON - noise)	---	---	34.51	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

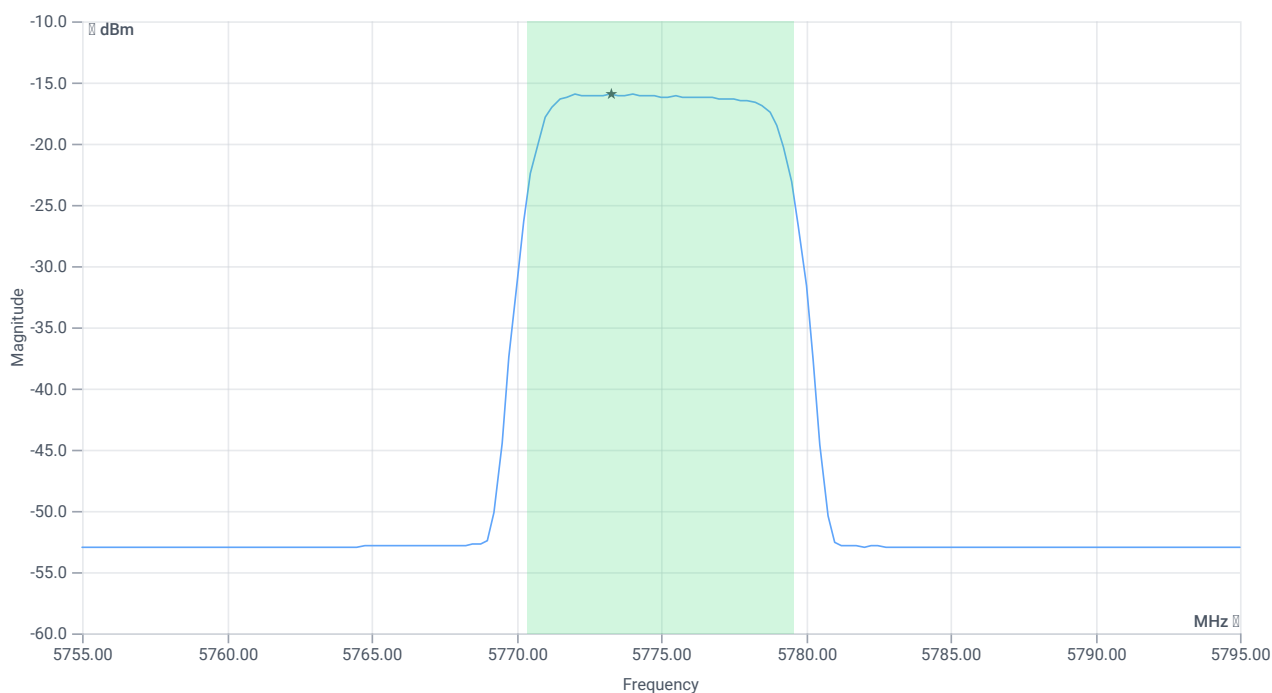
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.16	MHz	INFO
T1 26dB	---	---	5770.4000	MHz	INFO
T2 26dB	---	---	5779.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.15 6.06 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-7.34	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

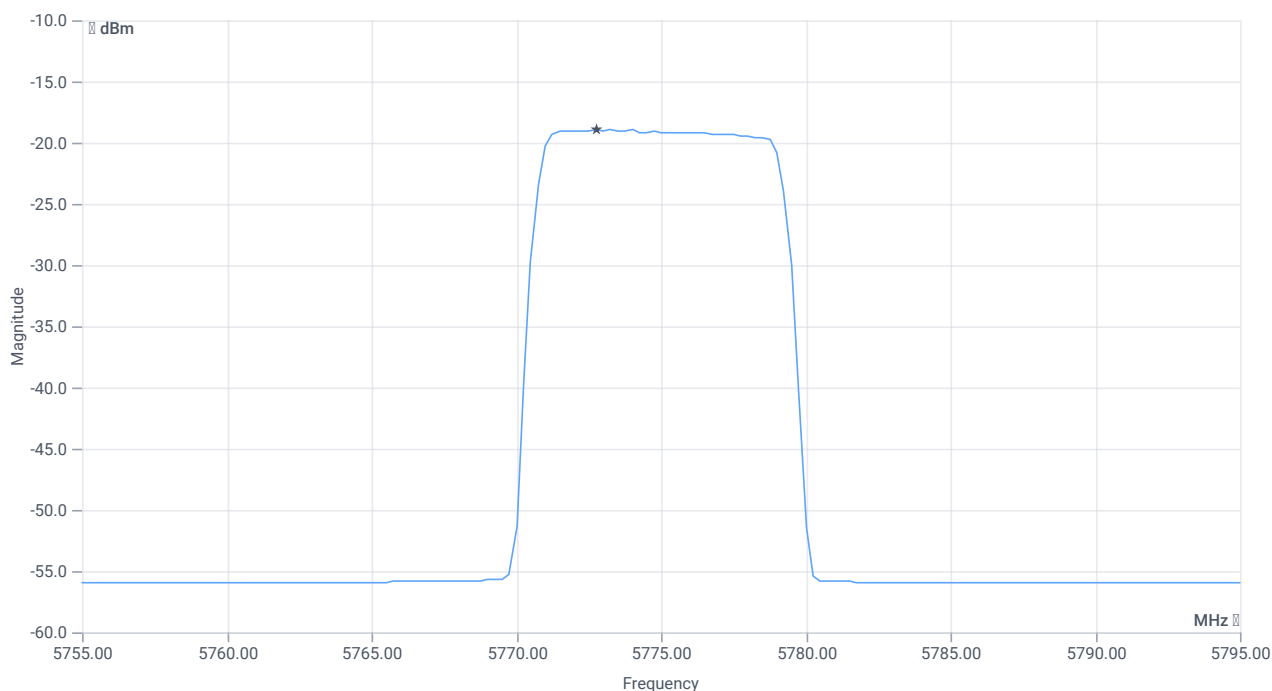
CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	30	2.74	dBm	PASS
LIMIT: 11 dBm + 10 log 9.16				
Max output power DC --- corrected cond	N/A	2.74	dBm	N/A

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.15 6.06 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-18.92	dBm/0.5MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Power spectral density DC corrected cond	--	30	-8.84	dBm/0.5MHz	PASS
--	----	----	-------	------------	------

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:02:33
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5775 MHz

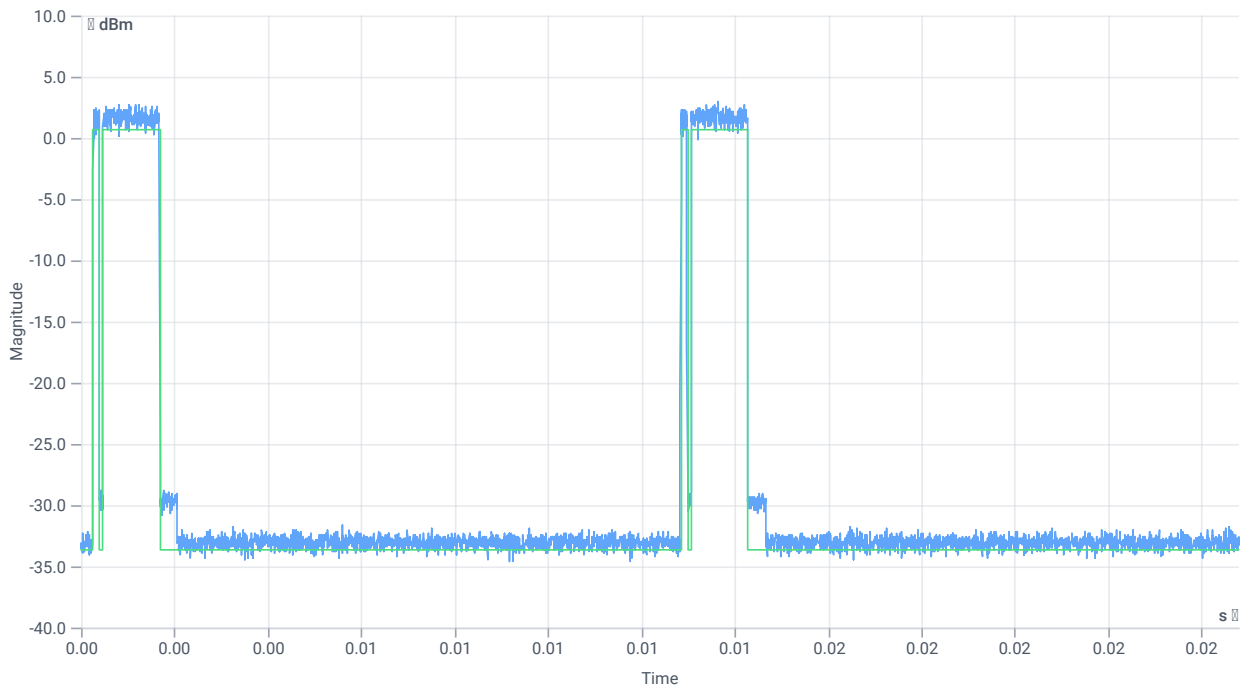
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.30	dBm	INFO
Ref. frequency	---	---	5775.000	MHz	INFO

Evaluation max. duty cycle

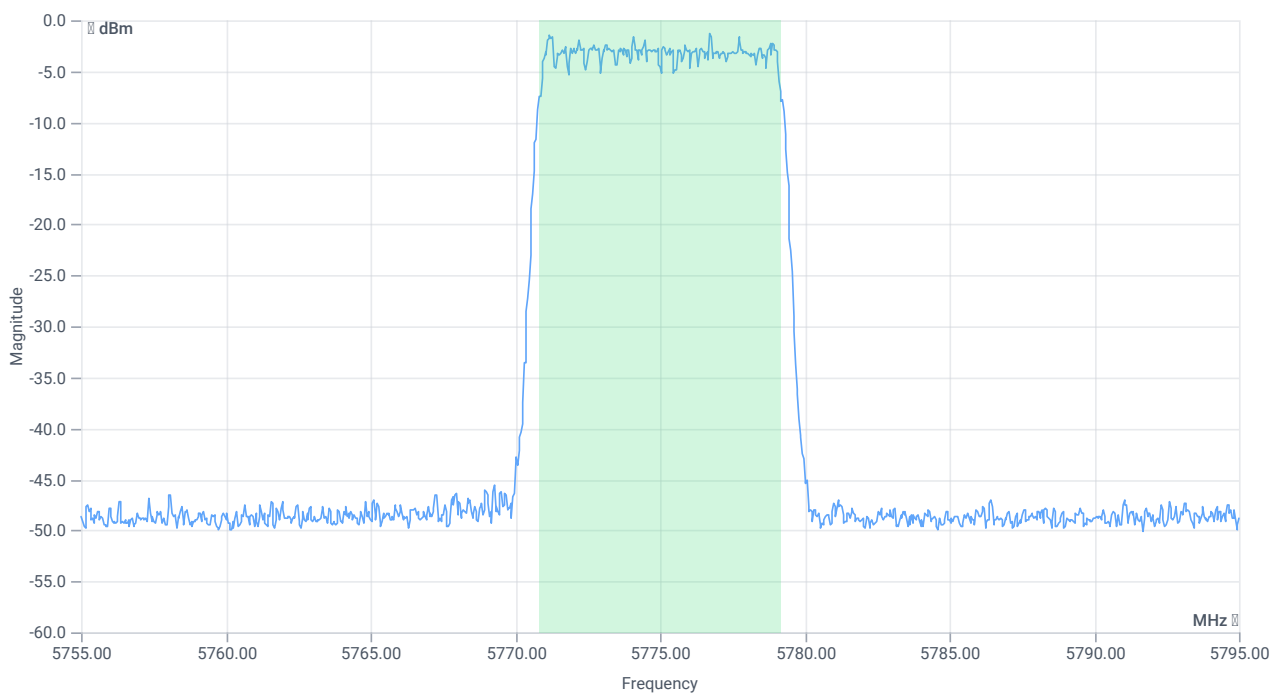
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	0.74	dBm	INFO
Estimated noise floor	---	---	-33.6	dBm	INFO
Dynamic range (ON - noise)	---	---	34.33	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0977	---	INFO
Duty cycle min	---	---	10.101	dB	INFO
Max TX burst length	---	---	1.2092	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1623	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	---	---	5770.8042	MHz	INFO
T2 99%	---	---	5779.1958	MHz	INFO

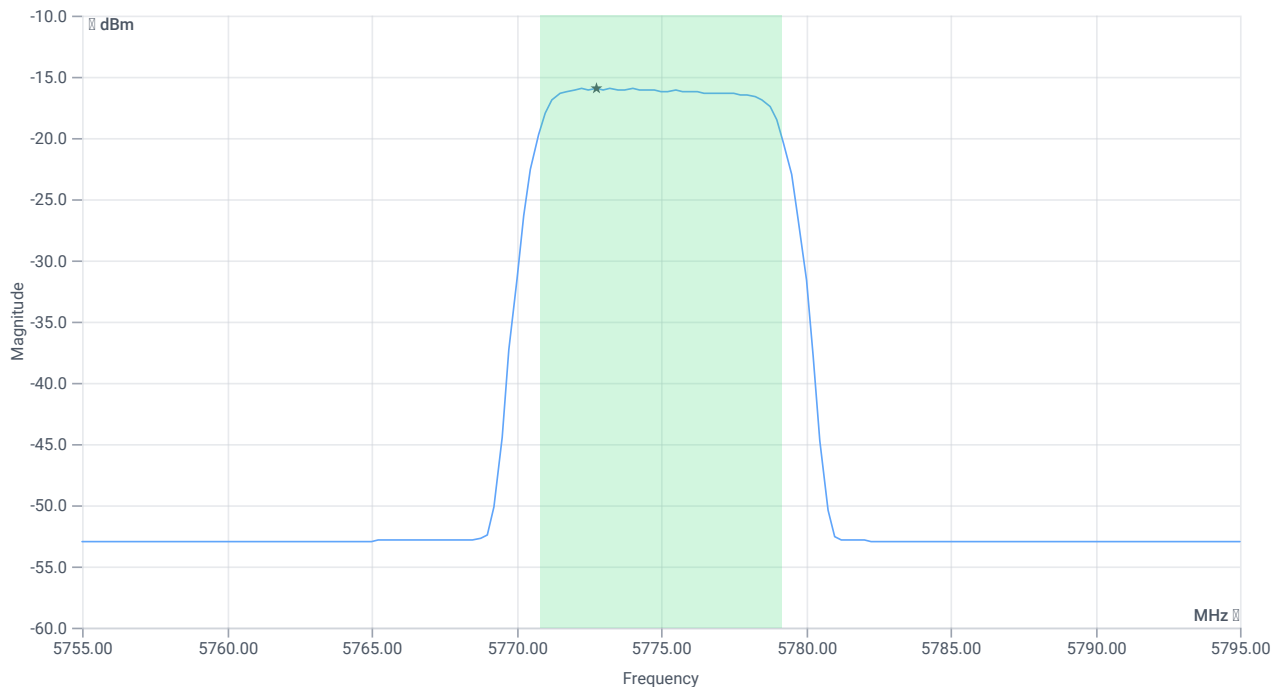
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 5.8 @ 5775 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.30 6.06 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

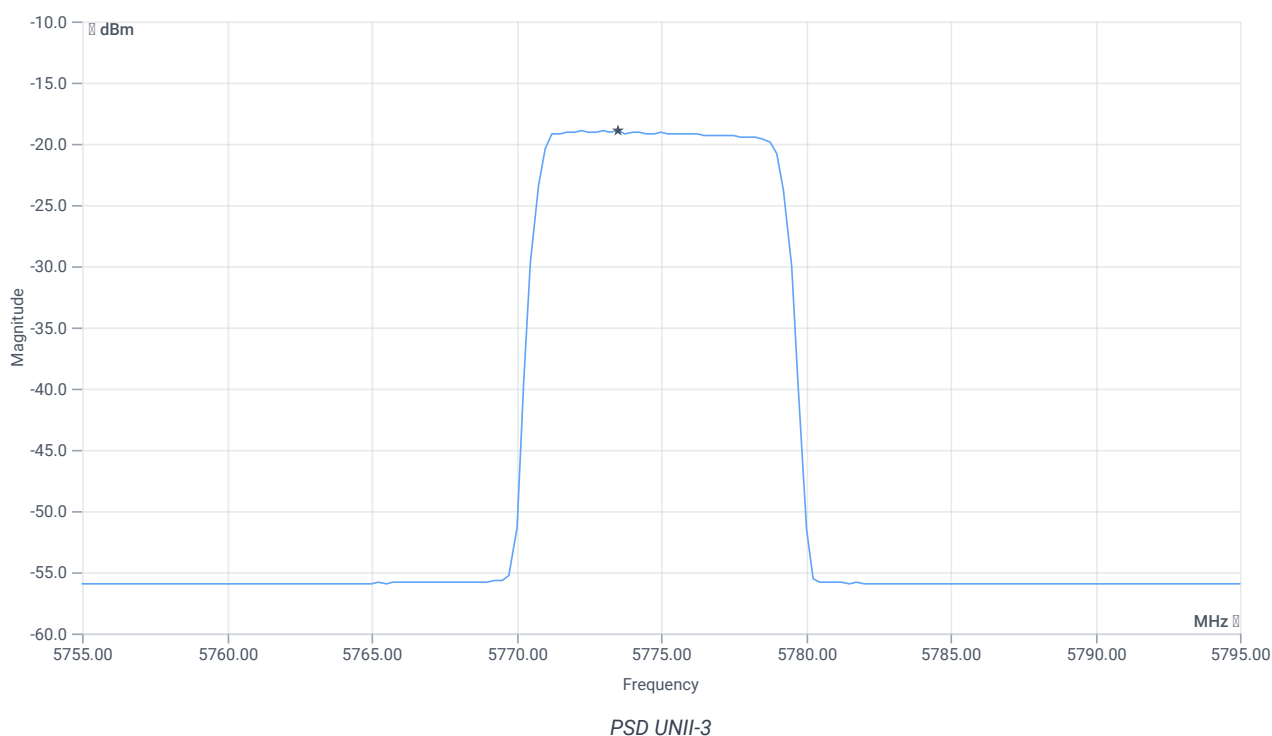
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-7.47	dBm	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty cycle correction	---	---	10.1	dB	INFO
LIMIT absolute cond					
Max output power DC corrected cond	---	30	2.63	dBm	PASS
Antenna gain applied			5.8	dBi	INFO
LIMIT absolute eirp (RSS-247 §6.2.4)					
Max output power DC corrected eirp	---	36	8.43	dBm	PASS

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.30 6.06 25
Start [MHz] Stop [MHz]	5755.000 5795.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density cond	---		-18.96	dBm/0.5MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density DC corrected cond	--	30	-8.86	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:05:13
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5775 MHz

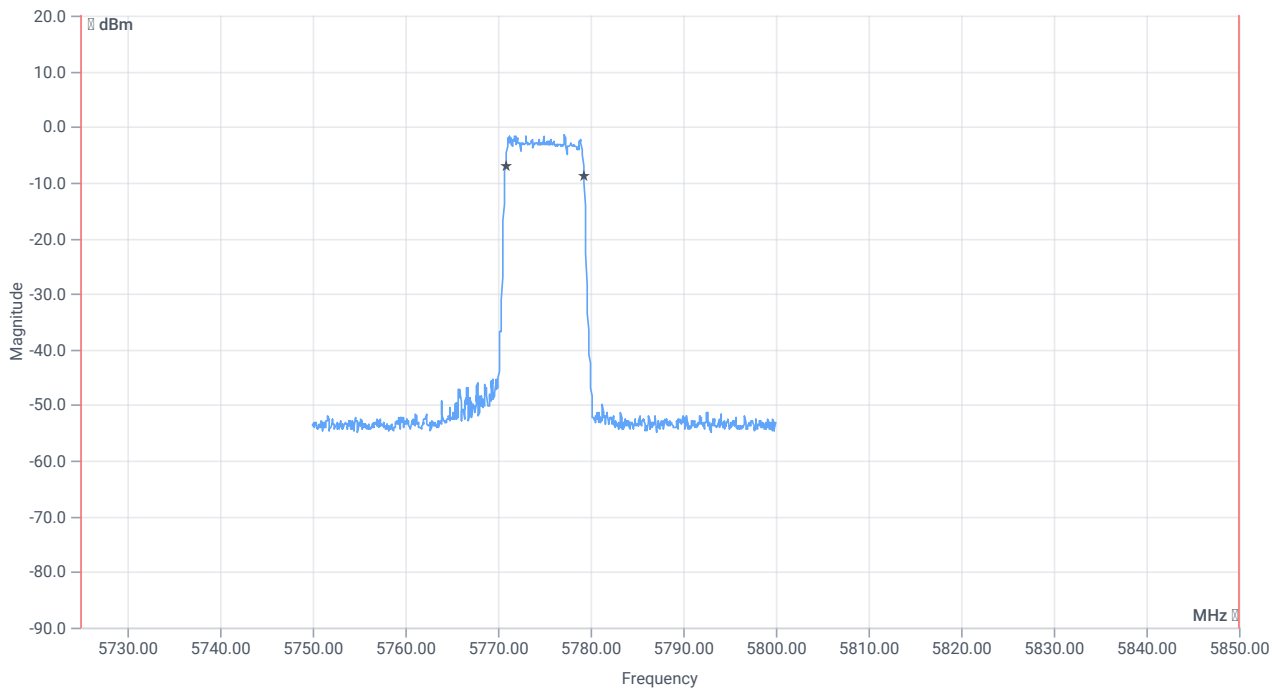
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.21	dBm	INFO
Ref. frequency	---	---	5772.600	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.21 6.06 20
Start [MHz] Stop [MHz]	5750.000 5800.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE

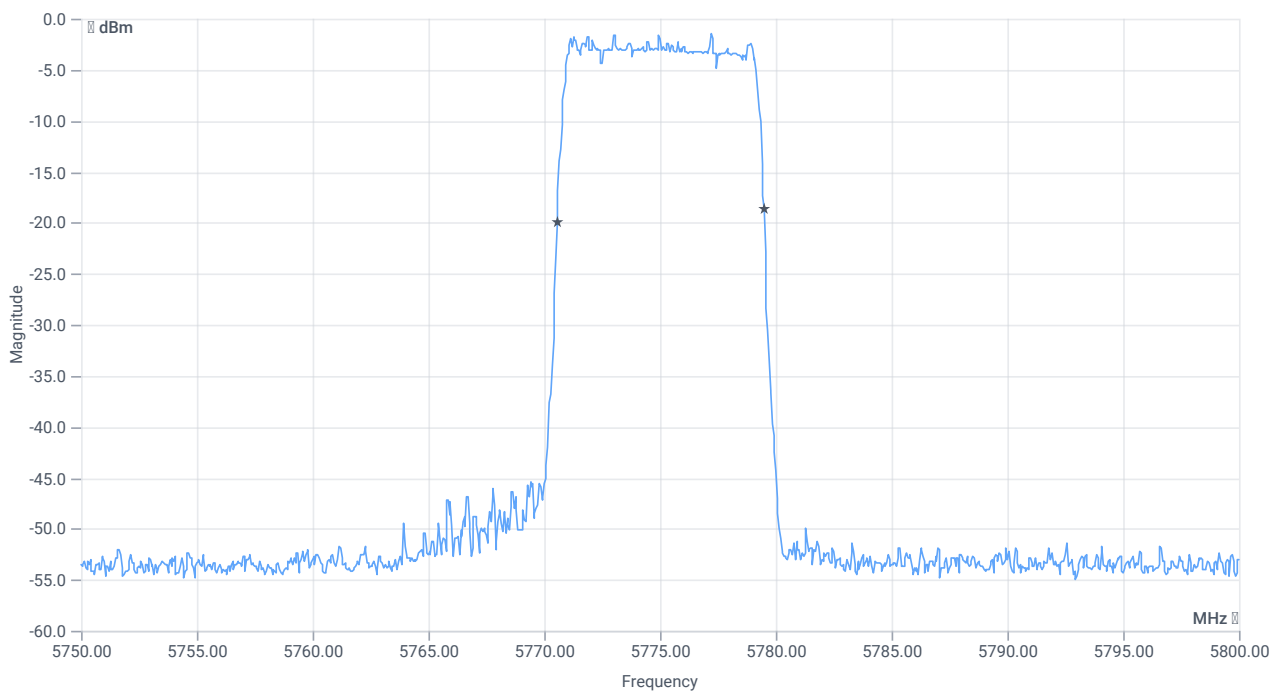




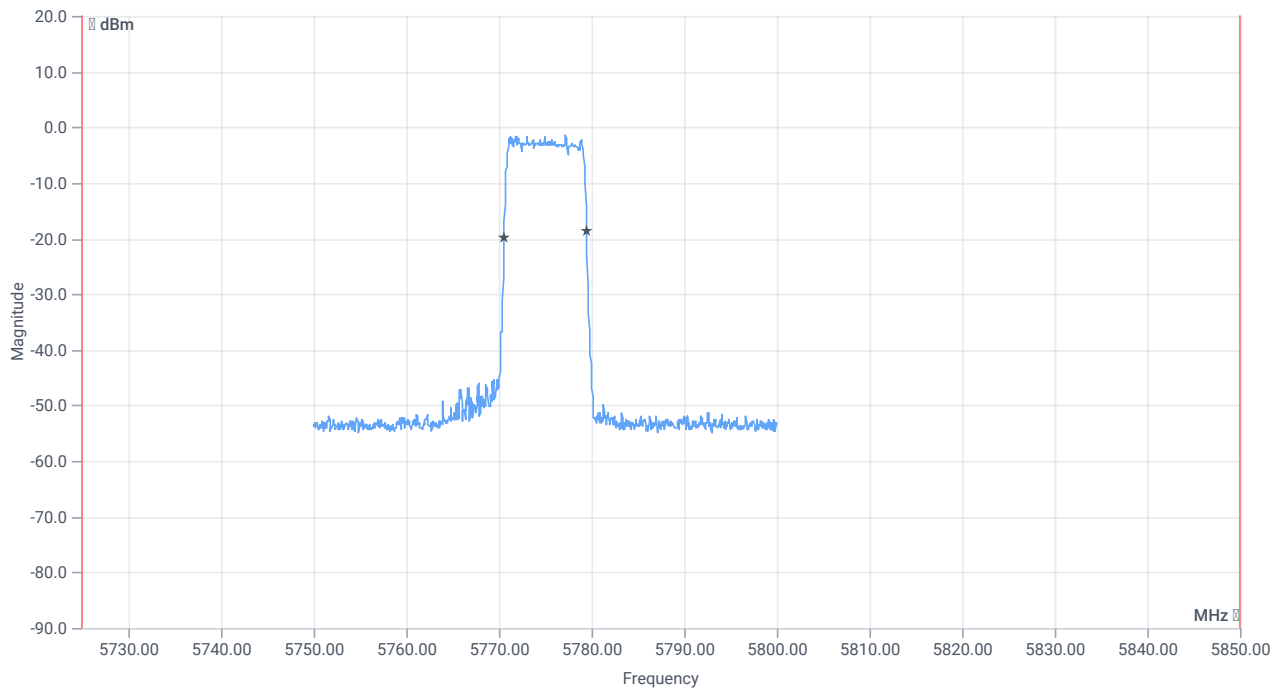
BW within band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5725.000000	---	5770.8541	MHz	PASS
T2 99%	---	5850.000000	5779.2458	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	8.95	MHz	INFO
T1 20dB	5725.000000	---	5770.5500	MHz	PASS
T2 20dB	---	5850.000000	5779.5000	MHz	PASS

Verdict
PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:05:45
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min emission BW - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

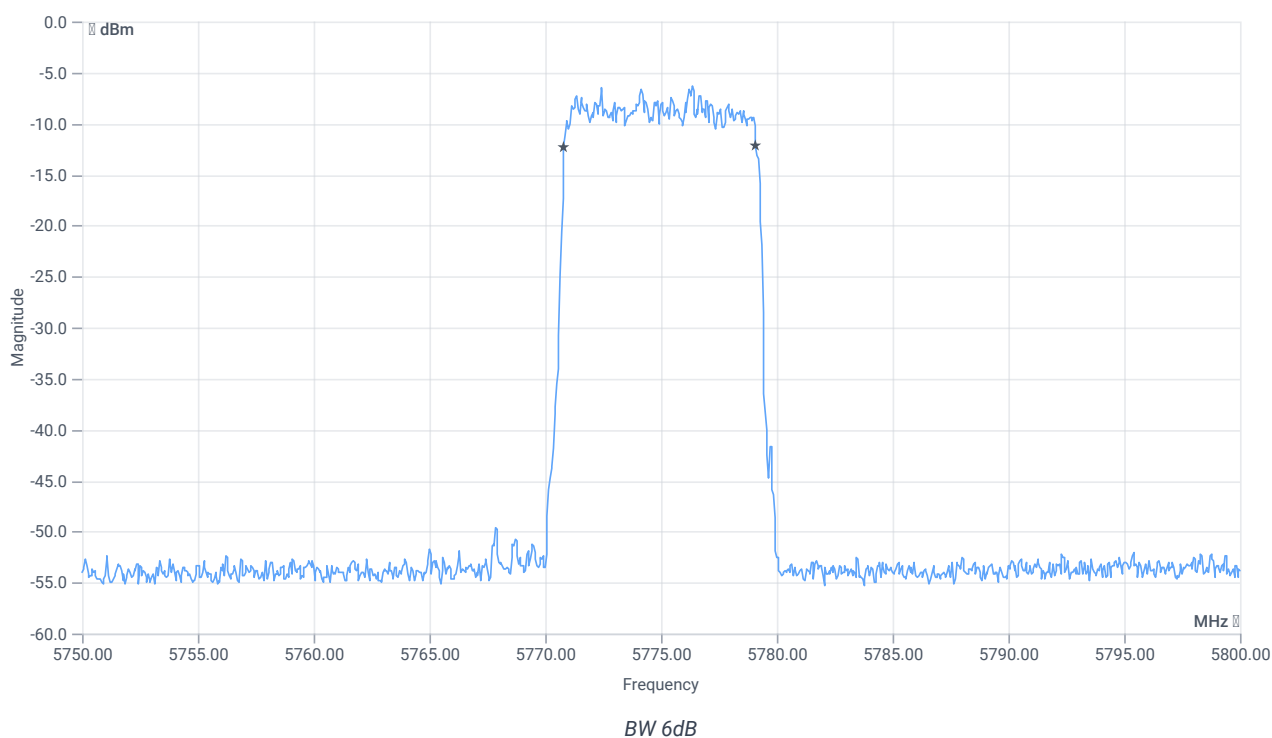
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.61	dBm	INFO
Ref. frequency	---	---	5771.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.61 6.06 25
Start [MHz] Stop [MHz]	5750.000 5800.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	8.3	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:06:35
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5775 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

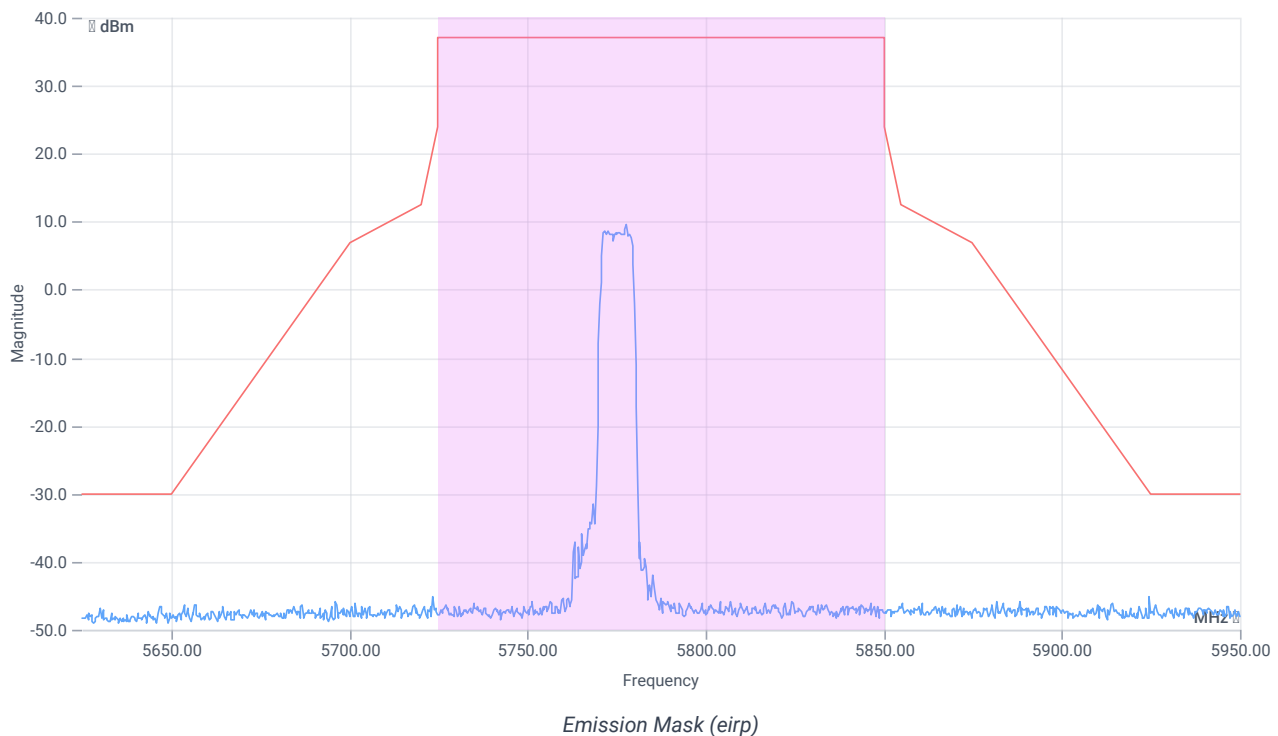
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.40	dBm	INFO
Ref. frequency	---	---	5774.600	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	5.8 / max found in range 5625 to 5950 MHz
--------------------------------	---

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.40 6.06 15
Start [MHz] Stop [MHz]	5625.000 5950.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
cetecom advanced GmbH Untertürkheimer Str. 6-10, 66117 Saarbrücken			Document No. 1-3399-26-02-03_TR1-A201-R01 Release 1 - Page 200 of 223		

Verdict

PASS

NA # Message with SA scan ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:07:11
Ambit temp (test rack) [°C] humidity [rel%]	26.0 44
System version	6.1.0.0
Standard Version	NA NI
Method	
Description	Message SA - WLAN5Gx a U-NII-3
Information	Ant 17

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110
Message start	20.08.2026 11:07:14
Message	set WLAN5Gx to a_U-NII-3 Frequency [MHz]: 5825 Power setting: 4 Port: EUT1 Ant 17

Verdict

INFO

FCC 15.407 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:08:30
Ambit temp (test rack) [°C] humidity [rel%]	26.0 43
System version	6.1.0.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5820 MHz

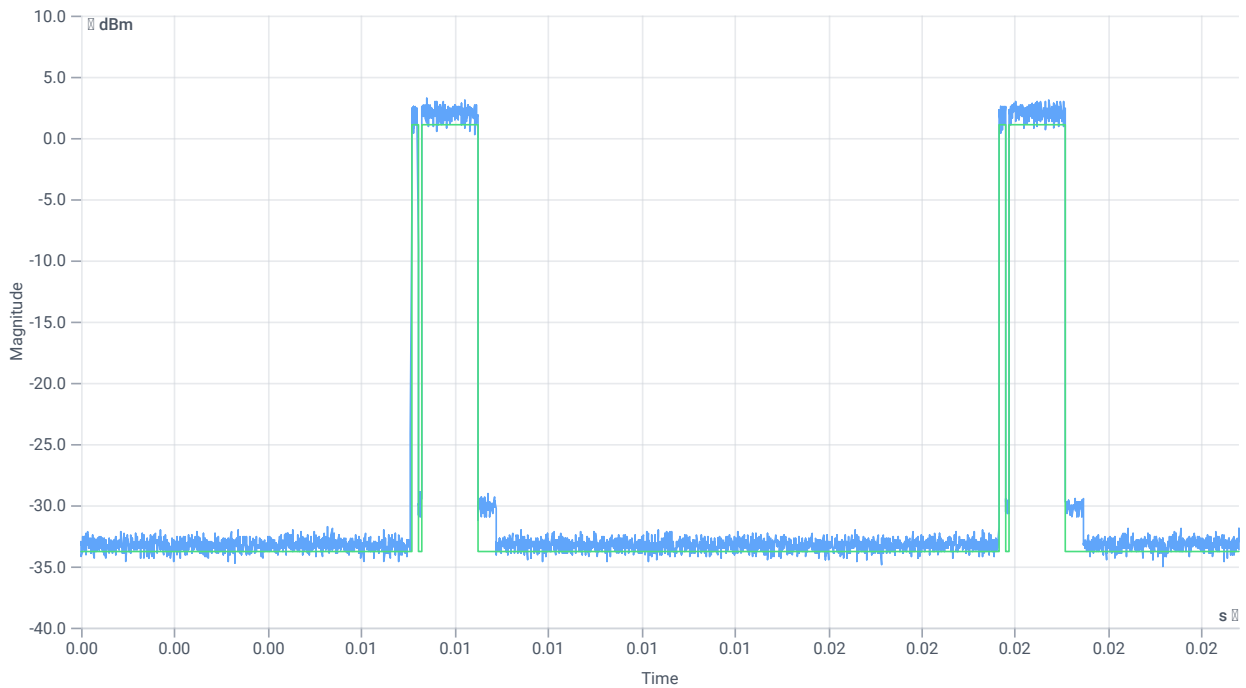
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.63	dBm	INFO
Ref. frequency	---	---	5820.400	MHz	INFO

Evaluation max. duty cycle

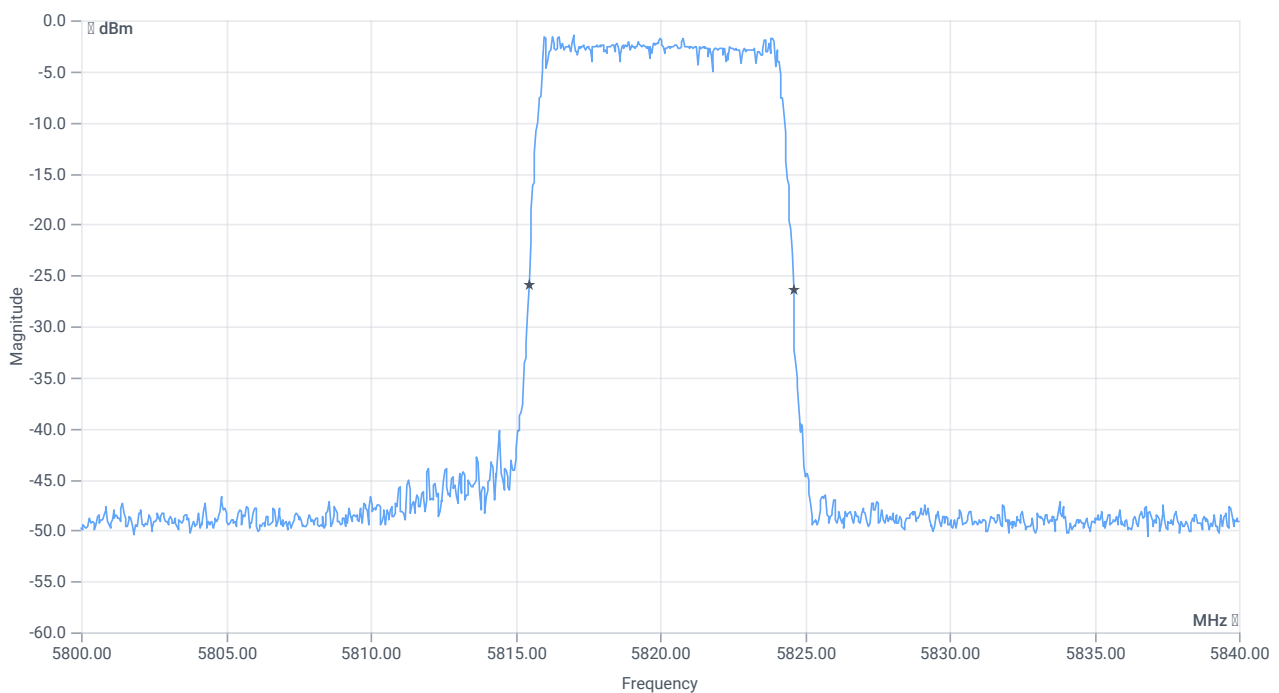
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.09	dBm	INFO
Estimated noise floor	---	---	-33.79	dBm	INFO
Dynamic range (ON - noise)	---	---	34.88	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.1622	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

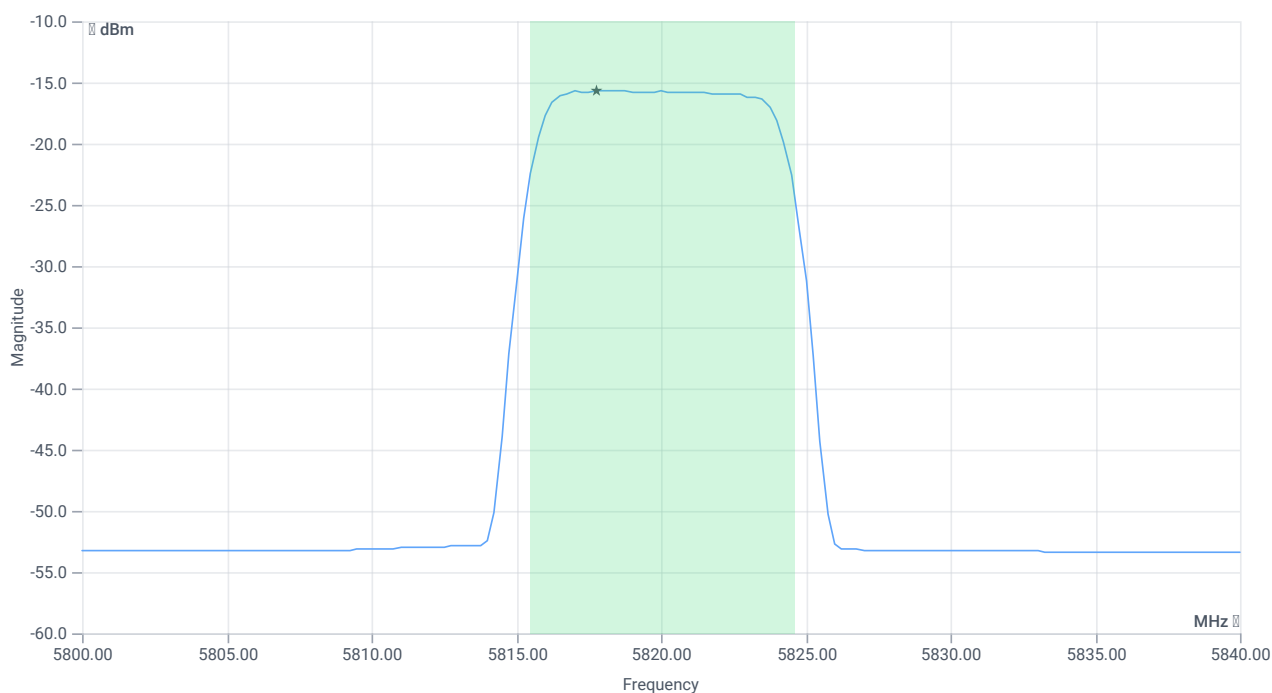
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	9.12	MHz	INFO
T1 26dB	---	---	5815.4800	MHz	INFO
T2 26dB	---	---	5824.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.63 5.74 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	-6.99	dBm	INFO
Duty cycle correction	---	---	10.08	dB	INFO

LIMIT absolute:

RESULT

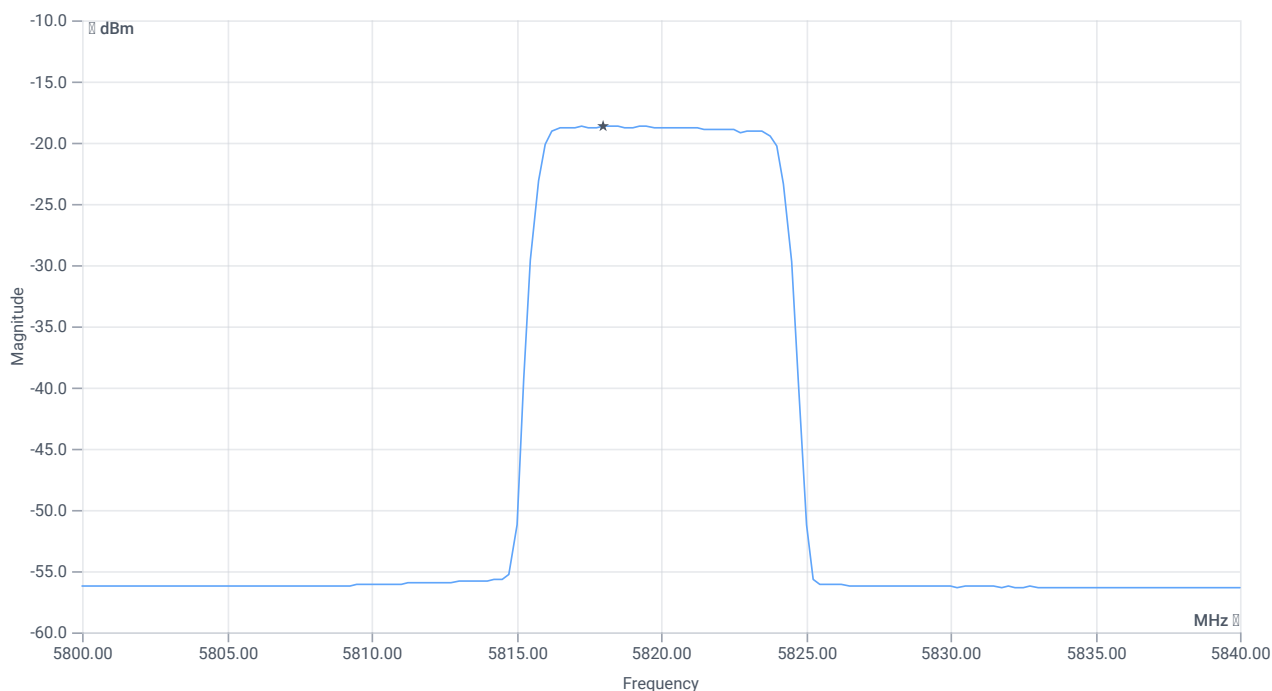
CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Max output power DC --- corrected cond	30	3.09	dBm	PASS
LIMIT: 11 dBm + 10 log 9.12				
Max output power DC --- corrected cond	N/A	3.09	dBm	N/A

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.63 5.74 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-18.68	dBm/0.5MHz	INFO
Duty cycle correction	---	---	10.08	dB	INFO

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Power spectral density DC corrected cond	--	30	-8.6	dBm/0.5MHz	PASS
--	----	----	------	------------	------

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:11:09
Ambit temp (test rack) [°C] humidity [rel%]	26.1 43
System version	6.1.0.0
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max OP & PSD - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5820 MHz

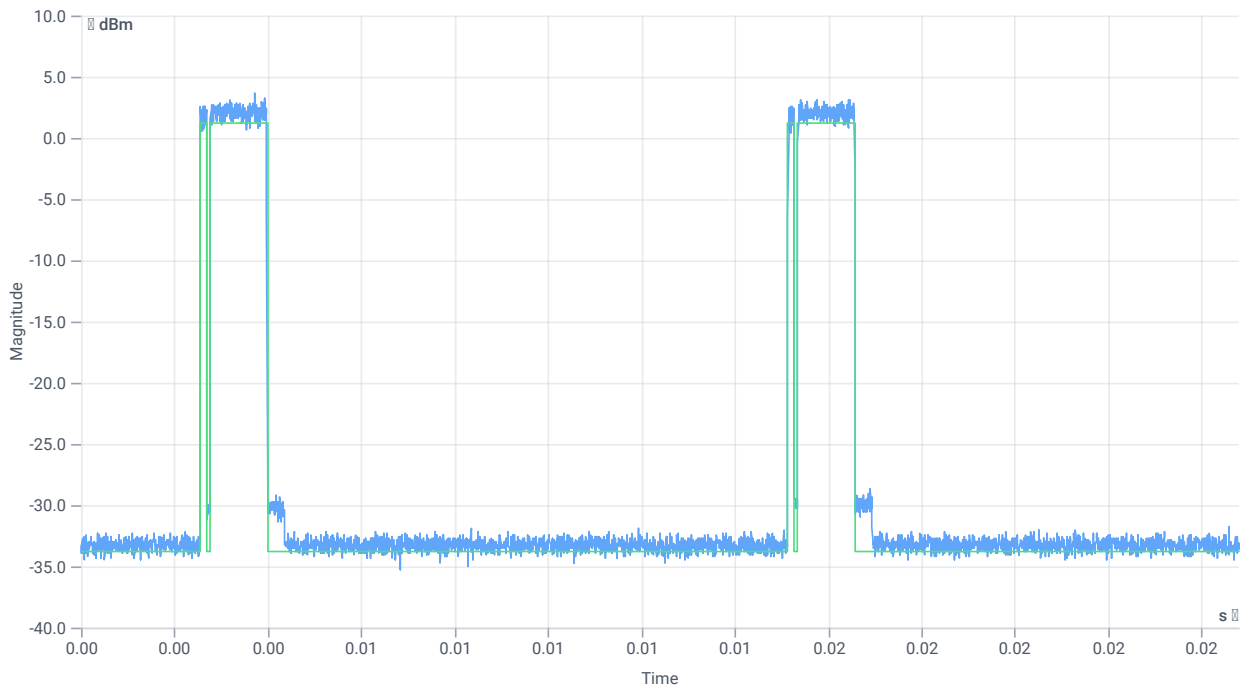
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.72	dBm	INFO
Ref. frequency	---	---	5819.600	MHz	INFO

Evaluation max. duty cycle

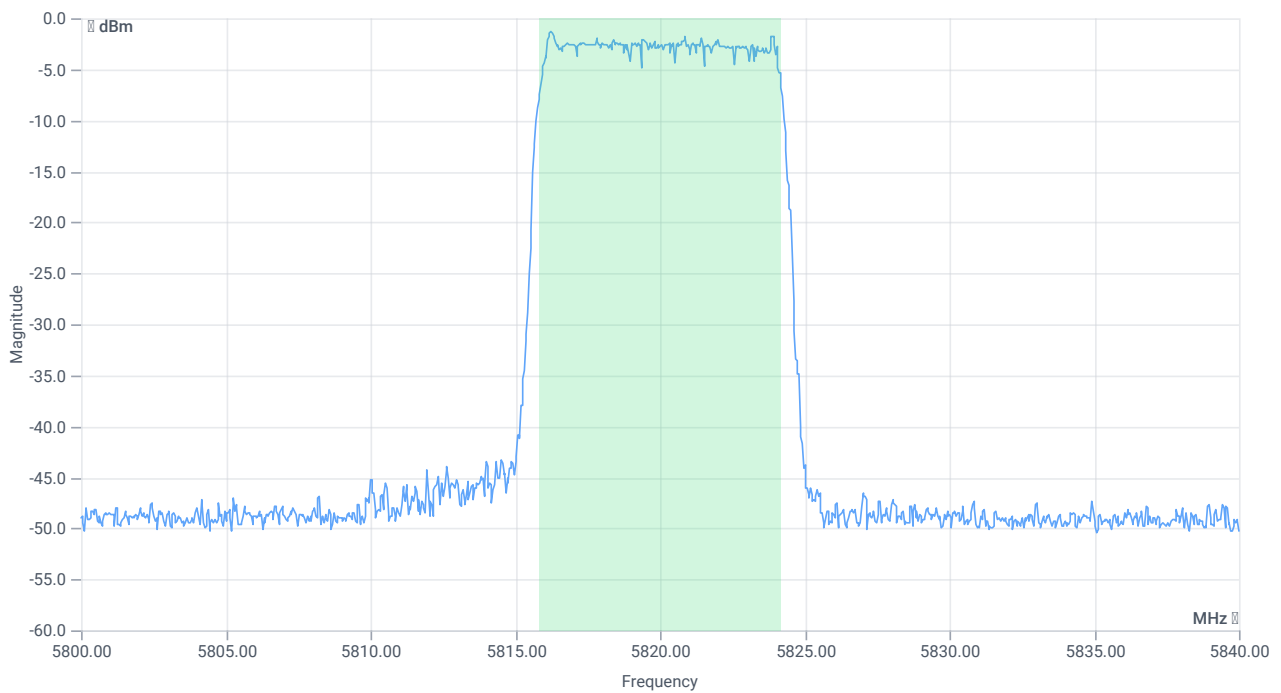
DUTY CYCLE EVALUATION (V2, edge based)

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Re-measured finer: sweep 110 -> 24.805 ms	---	---	---	---	INFO
Number of detected bursts	---	---	3	---	INFO
Estimated ON level	---	---	1.25	dBm	INFO
Estimated noise floor	---	---	-33.8	dBm	INFO
Dynamic range (ON - noise)	---	---	35.05	dB	INFO
Duty cycle (burst Ratio) max	---	---	0.6571	---	INFO
Duty cycle max	---	---	1.824	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.0982	---	INFO
Duty cycle min	---	---	10.079	dB	INFO
Max TX burst length	---	---	1.2154	ms	INFO
Min gap length	---	---	0.0744	ms	INFO
Max gap length	---	---	11.156	ms	INFO



Duty cycle (blue: measurement, green: detected burst pattern)

Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
-------------	-------------	-------------	----------	------	---------

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	---	---	5815.8042	MHz	INFO
T2 99%	---	---	5824.1958	MHz	INFO

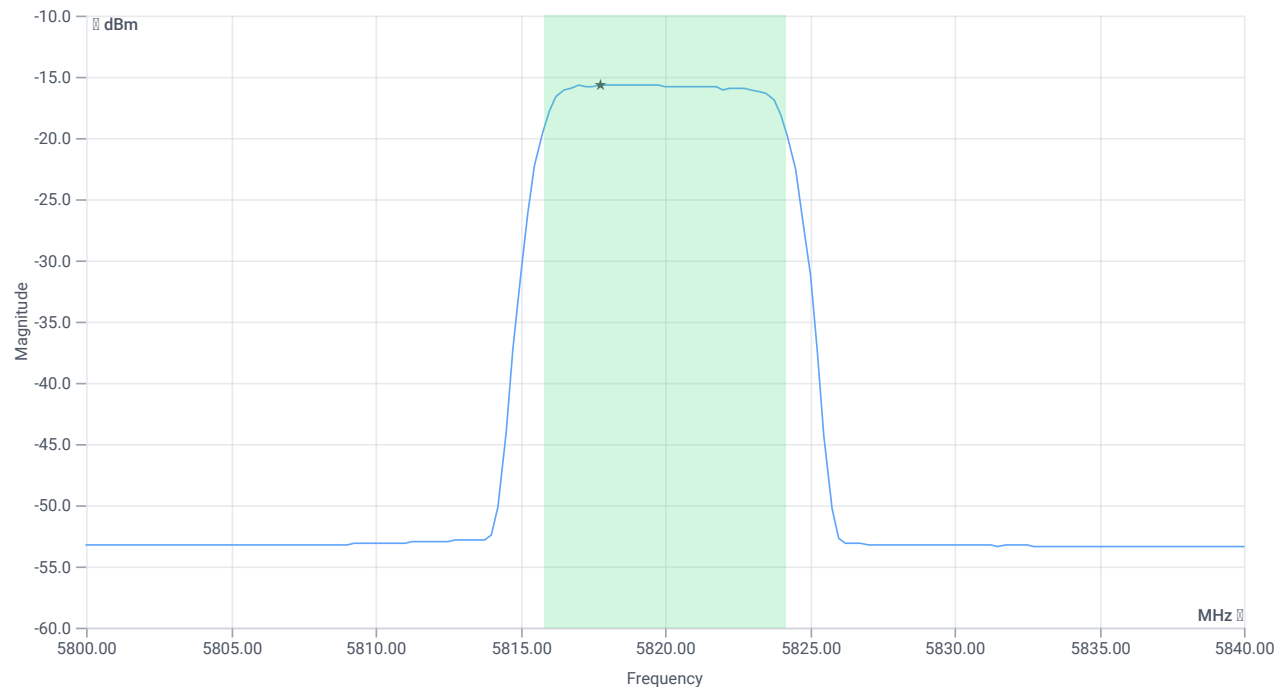
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 5.8 @ 5820 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.72 5.74 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



Max OP and PSD (without antenna gain)

RESULT

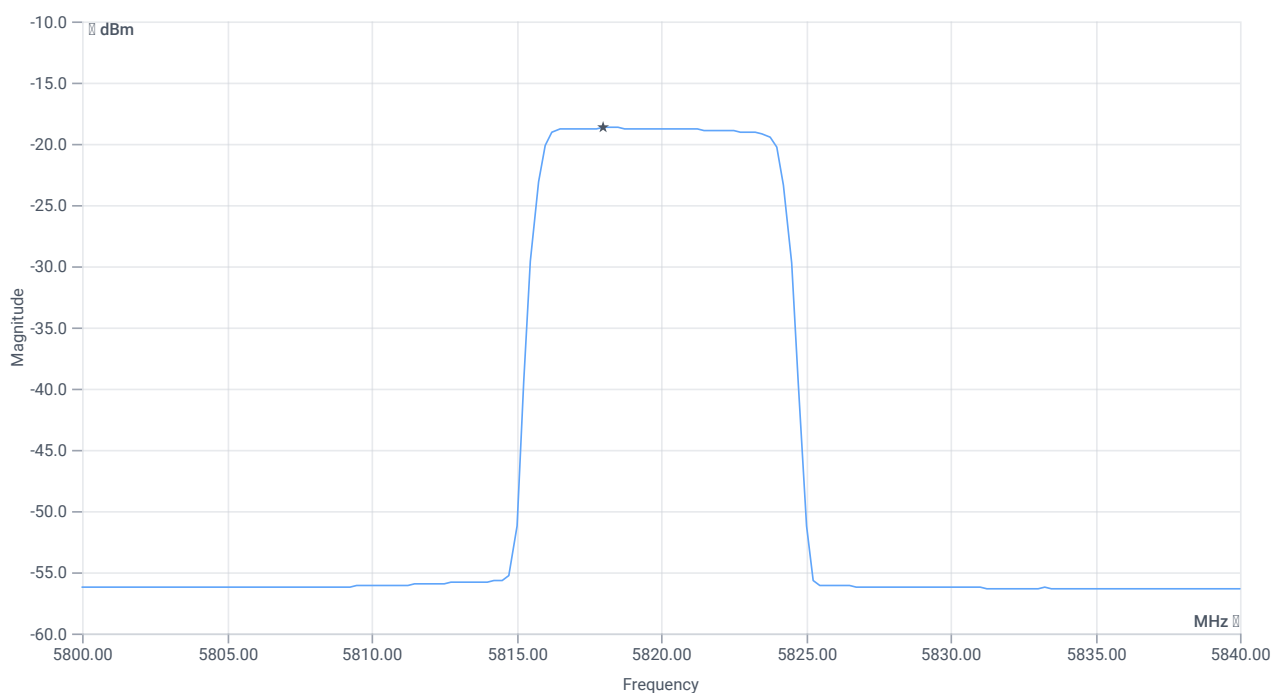
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power cond	---	---	-7.11	dBm	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty cycle correction	---	---	10.08	dB	INFO
LIMIT absolute cond					
Max output power DC corrected cond	---	30	2.97	dBm	PASS
Antenna gain applied			5.8	dBi	INFO
LIMIT absolute eirp (RSS-247 §6.2.4)					
Max output power DC corrected eirp	---	36	8.77	dBm	PASS

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.72 5.74 25
Start [MHz] Stop [MHz]	5800.000 5840.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59800 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density cond	---		-18.68	dBm/0.5MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density DC corrected cond	--	30	-8.6	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB (UNII-3 20dB) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:13:47
Ambit temp (test rack) [°C] humidity [rel%]	26.1 43
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5820 MHz

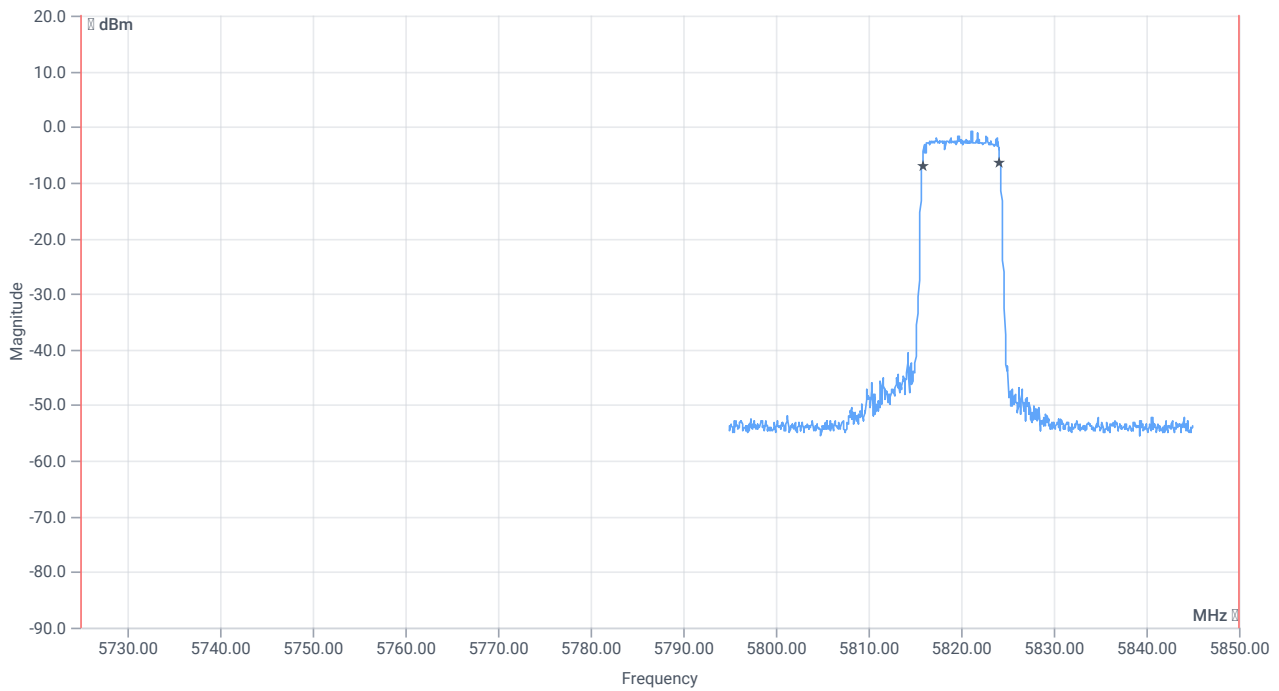
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.72	dBm	INFO
Ref. frequency	---	---	5819.400	MHz	INFO

READ SA SETTINGS:

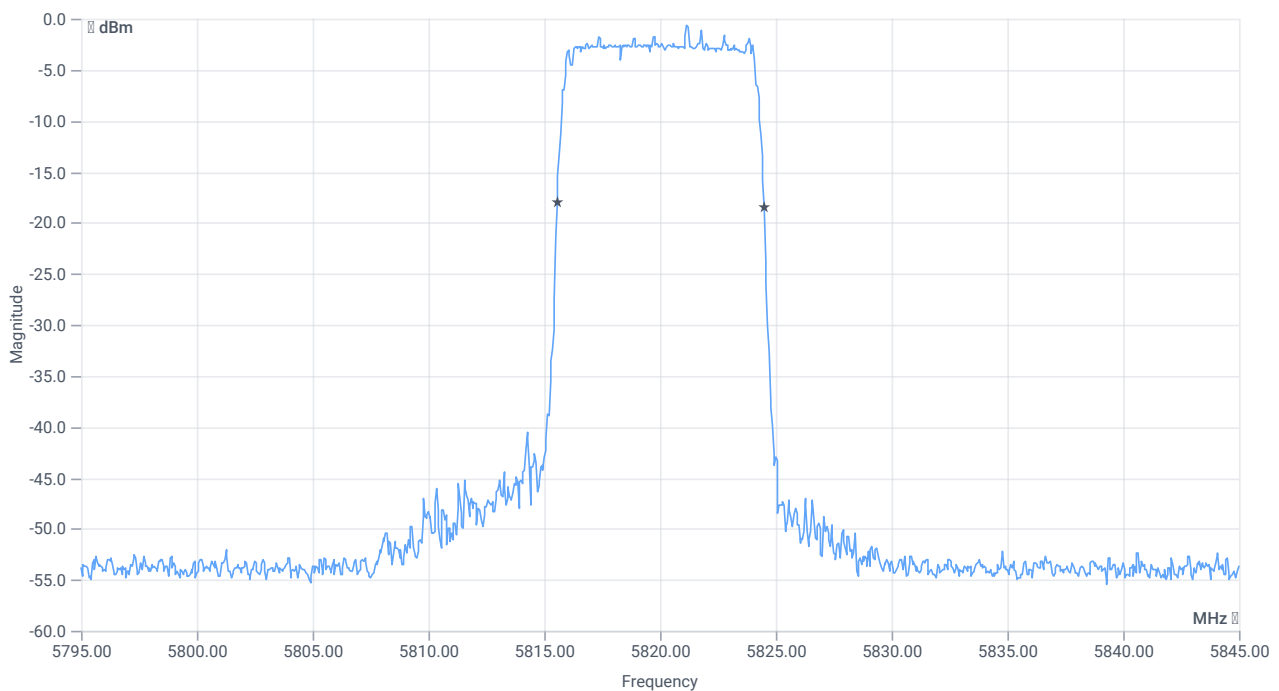
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.72 5.74 20
Start [MHz] Stop [MHz]	5795.000 5845.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



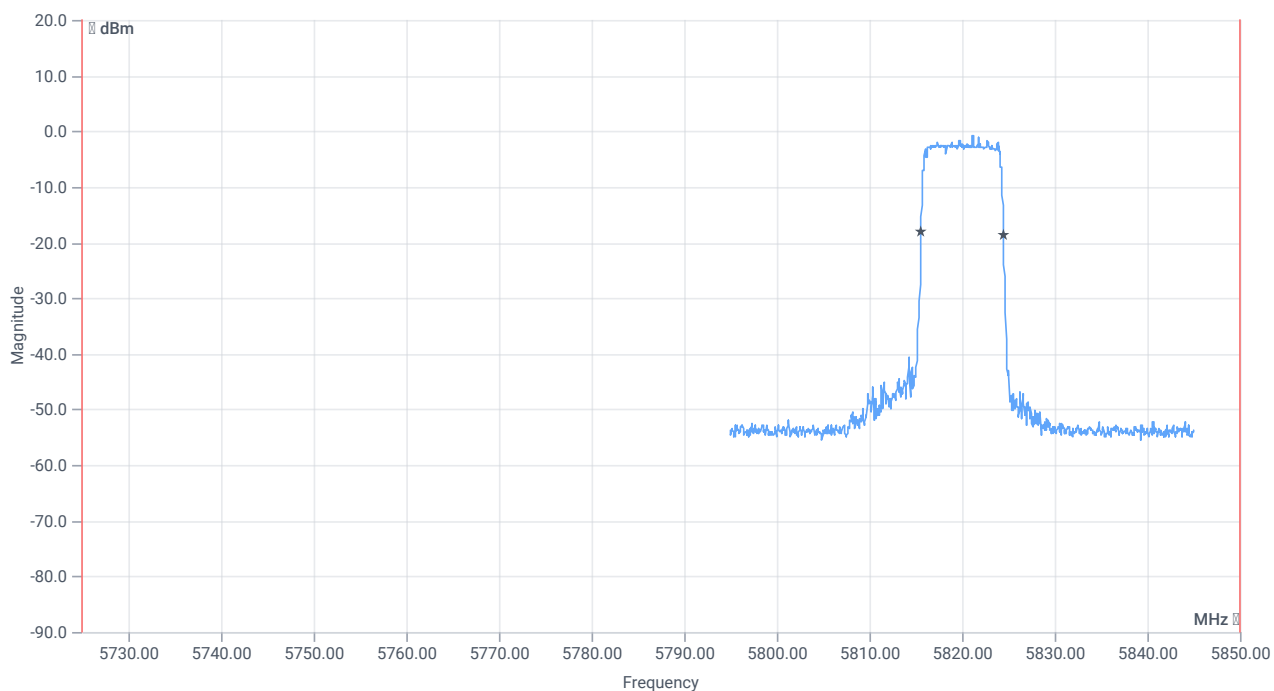


RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	8.392	MHz	INFO
T1 99%	5725.000000	---	5815.8042	MHz	PASS
T2 99%	---	5850.000000	5824.1958	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	8.95	MHz	INFO
T1 20dB	5725.000000	---	5815.5500	MHz	PASS
T2 20dB	---	5850.000000	5824.5000	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:14:18
Ambit temp (test rack) [°C] humidity [rel%]	26.1 43
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min emission BW - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

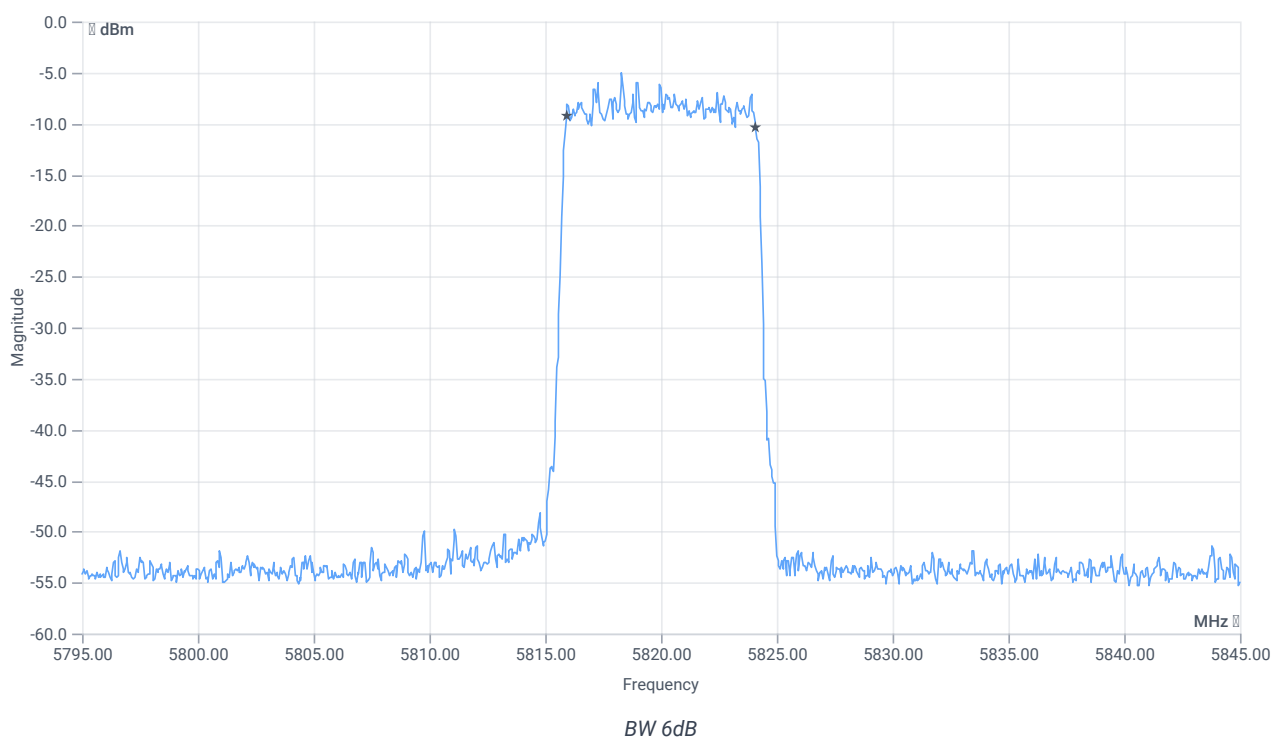
Test at TX 5820 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.06	dBm	INFO
Ref. frequency	---	---	5820.200	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.06 5.74 25
Start [MHz] Stop [MHz]	5795.000 5845.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	8.2	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a U-NII-3

References

TC start	20.08.2026 11:14:57
Ambit temp (test rack) [°C] humidity [rel%]	26.1 43
System version	6.1.0.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a U-NII-3
Information	Ant 17

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.70
Switch matrix,cetecom advanced GmbH,USM,C001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a
Power setting	4
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5820
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	1.4
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/
Switch bits	00000010:00000010:00000000:00000110

Test at TX 5820 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

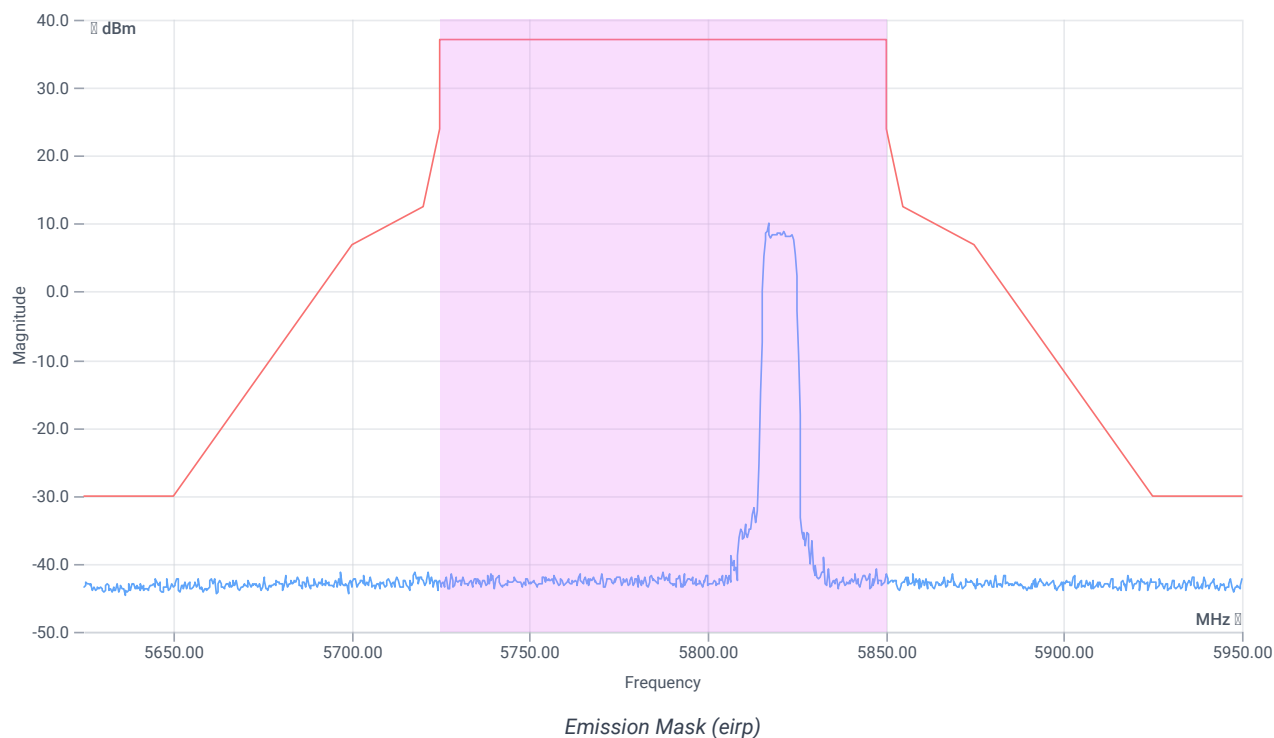
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.85	dBm	INFO
Ref. frequency	---	---	5819.600	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	5.8 / max found in range 5625 to 5950 MHz
--------------------------------	---

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.85 5.74 20
Start [MHz] Stop [MHz]	5625.000 5950.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	1 2500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
cetecom advanced GmbH Untertürkheimer Str. 6-10, 66117 Saarbrücken			Document No. 1-3399-26-02-03_TR1-A201-R01 Release 1 - Page 222 of 223		

Verdict

PASS

- END OF DOCUMENT -