

Conducted test results

No.1-8481-24-01-16_TR1-A201-R01

August 07, 2025

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

Andreas Curette
Lab Manager
Radio Labs

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

References

TC start	16.07.2025 13:02:23
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

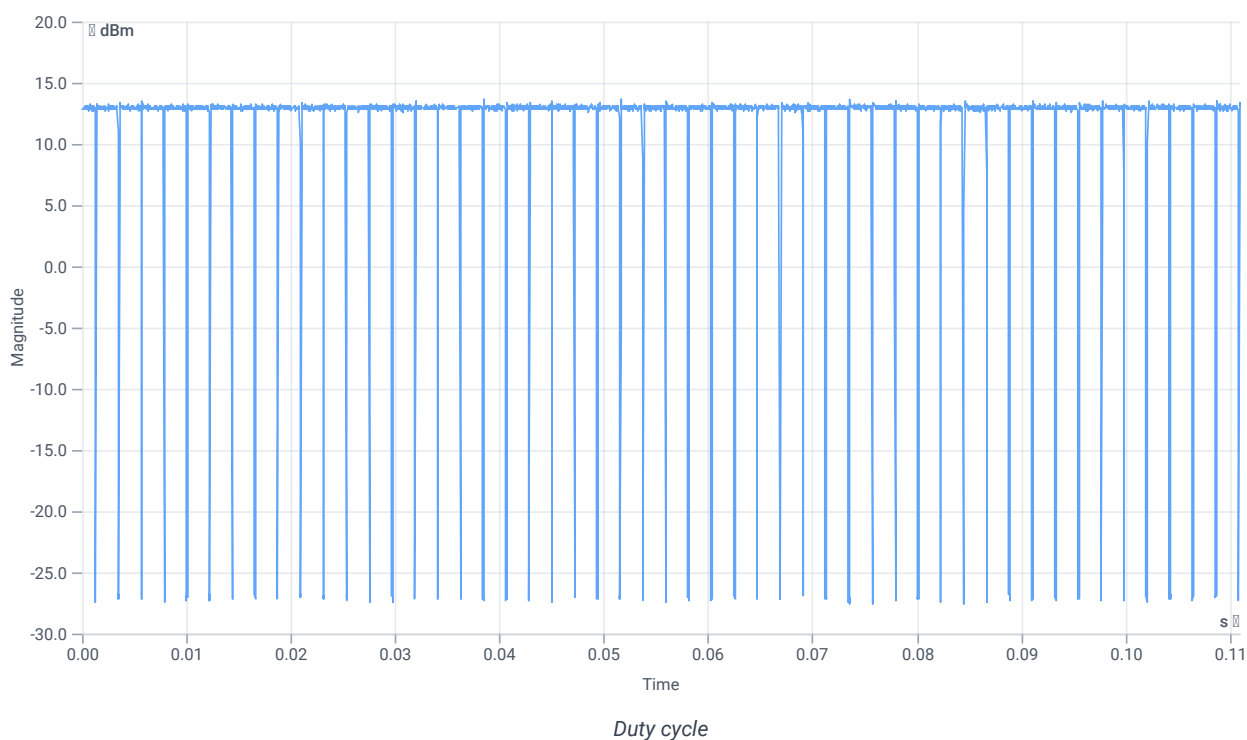
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	12.04	dBm	INFO
Ref. frequency	---	---	5182.400	MHz	INFO

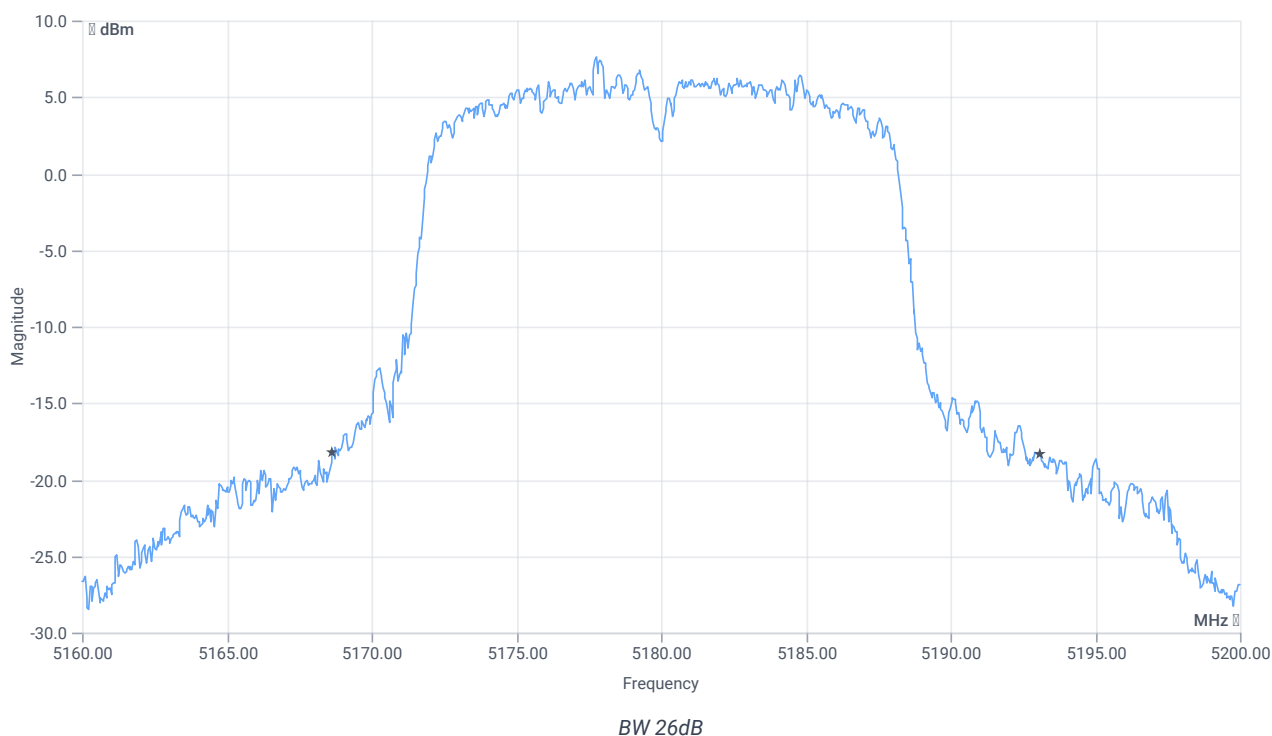
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 50					
Duty cycle (burst Ratio) max	---	---	0.937	---	INFO
Duty cycle max	---	---	0.283	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.89	---	INFO
Duty cycle min	---	---	0.506	dB	INFO
Max TX burst length	---	---	2.054	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.25	ms	INFO



Evaluation bandwidth



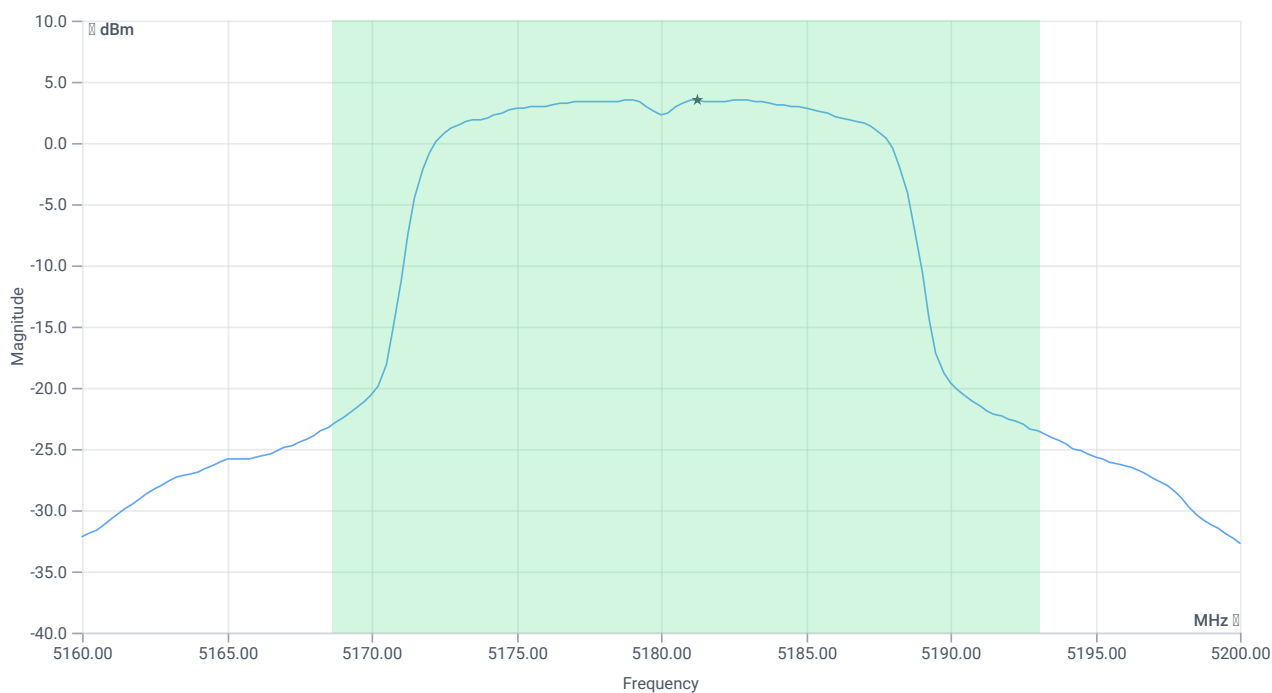
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	24.44	MHz	INFO
T1 26dB	---	---	5168.6400	MHz	INFO
T2 26dB	---	---	5193.0800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	24.04 10.34 30
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	14.59	dBm	INFO
Duty cycle correction	---	---	0.51	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	15.1	dBm	PASS
LIMIT: 11 dBm + 10 log 24.44					
Max output power DC corrected cond	---	24.88	15.1	dBm	na

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	---	---	3.48	dBm/1MHz	INFO
Duty cycle correction	---	---	0.51	dB	INFO
Power spectral density DC corrected cond	---	11	3.99	dBm/1MHz	PASS

Verdict

PASS

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

References

TC start	16.07.2025 13:04:00
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

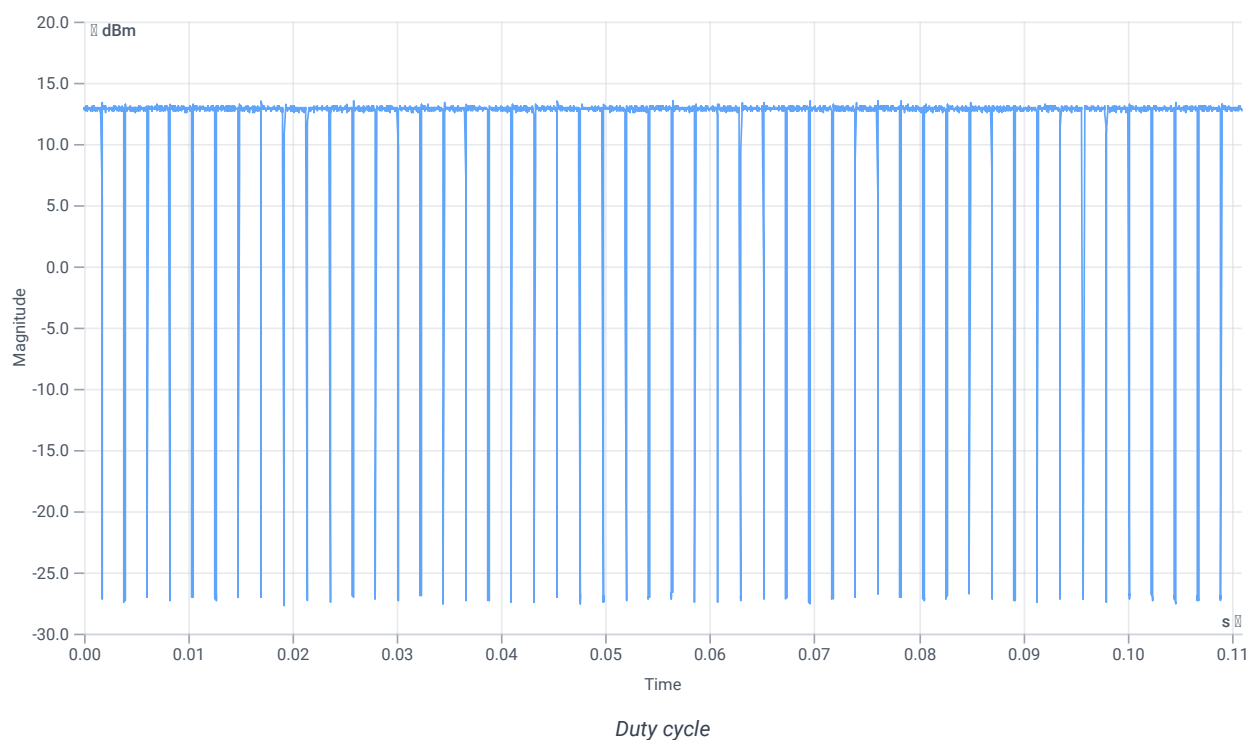
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.71	dBm	INFO
Ref. frequency	---	---	5178.600	MHz	INFO

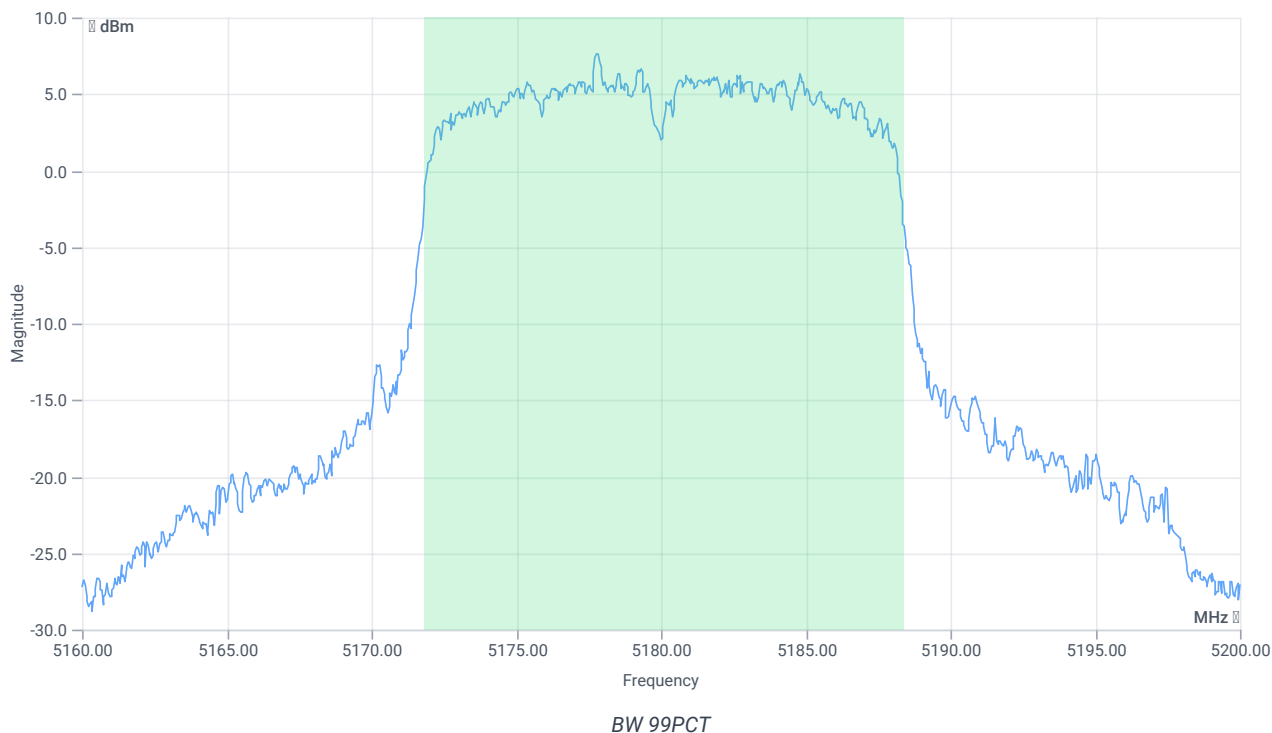
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 49					
Duty cycle (burst Ratio) max	---	---	0.937	---	INFO
Duty cycle max	---	---	0.283	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.901	---	INFO
Duty cycle min	---	---	0.453	dB	INFO
Max TX burst length	---	---	2.054	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	16.583	MHz	INFO
T1 99%	---	---	5171.8082	MHz	INFO
T2 99%	---	---	5188.3916	MHz	INFO

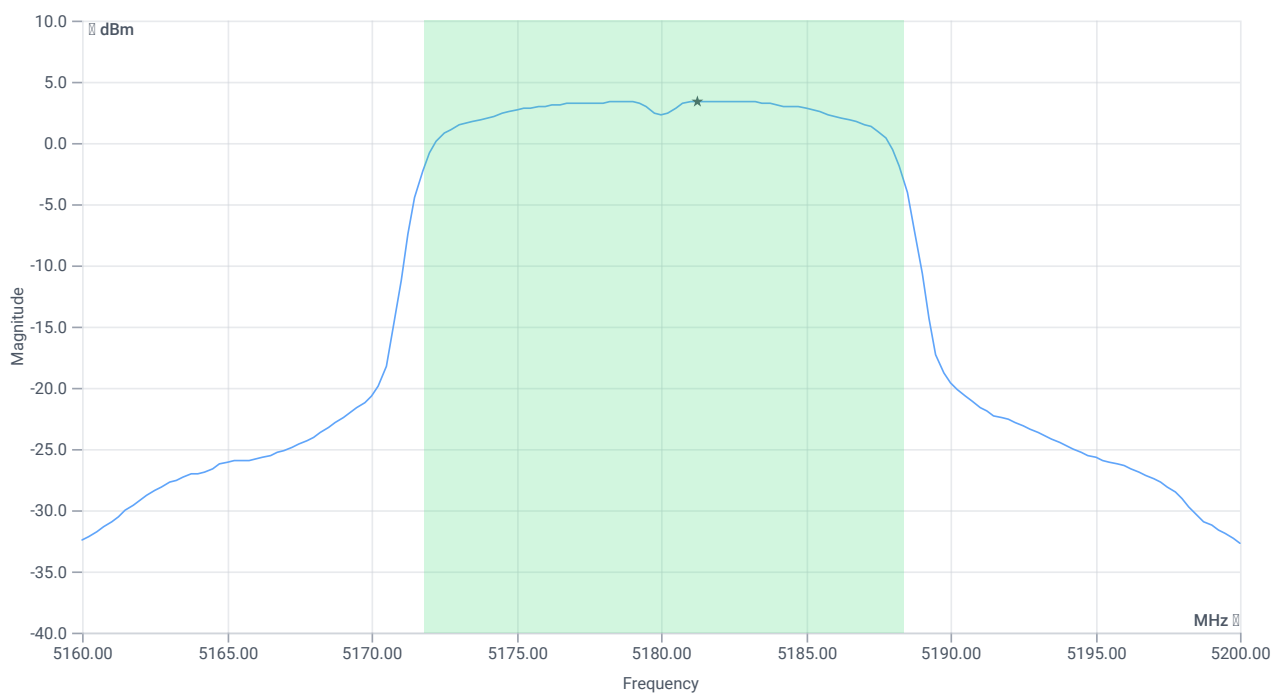
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	2.9 @ 5180 MHz
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READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.71 10.34 30
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14.48	dBm	INFO
Duty cycle correction	---	---	0.45	dB	INFO
Max output power DC corrected cond	---	---	14.93	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	17.83	dBm	PASS
LIMIT: 10 dBm + 10 log 16.583					
Max output power DC corrected eirp	---	22.2	17.83	dBm	PASS
Power spectral density eirp	---		6.34	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	6.79	dBm/1MHz	PASS

Verdict

PASS

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

References

TC start	16.07.2025 13:05:48
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5220 MHz

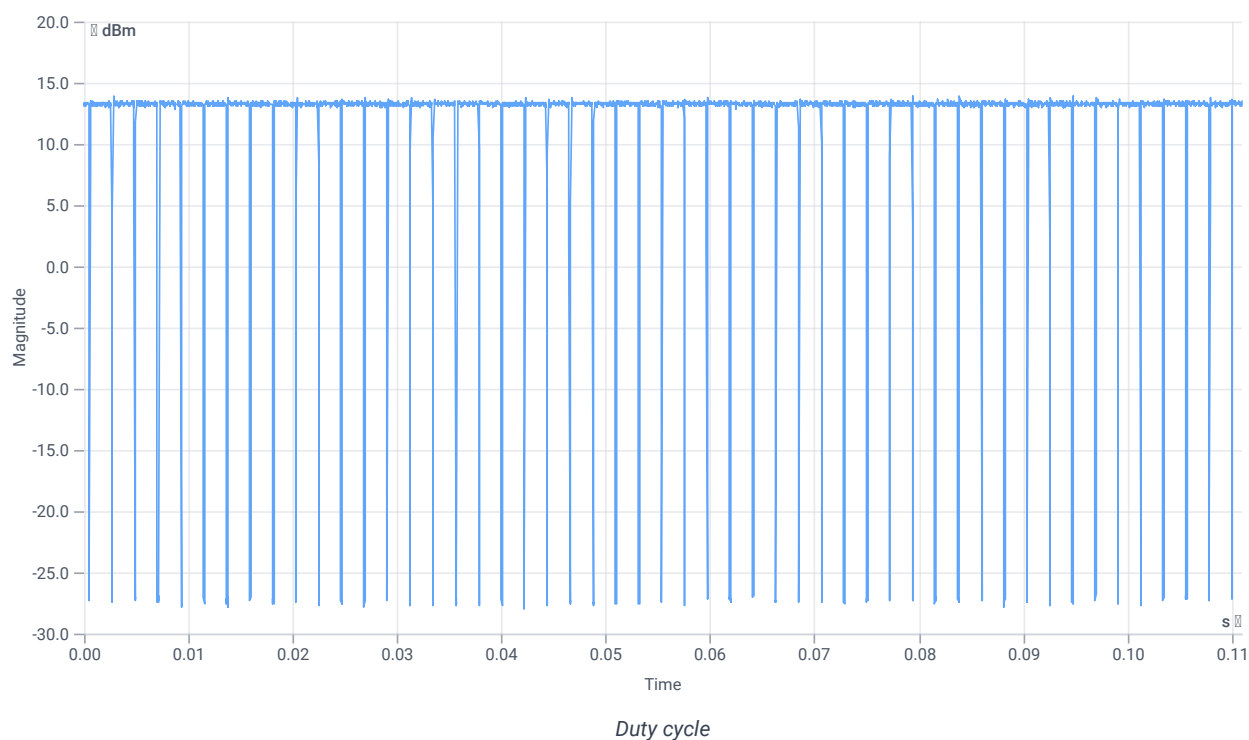
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	12.49	dBm	INFO
Ref. frequency	---	---	5223.000	MHz	INFO

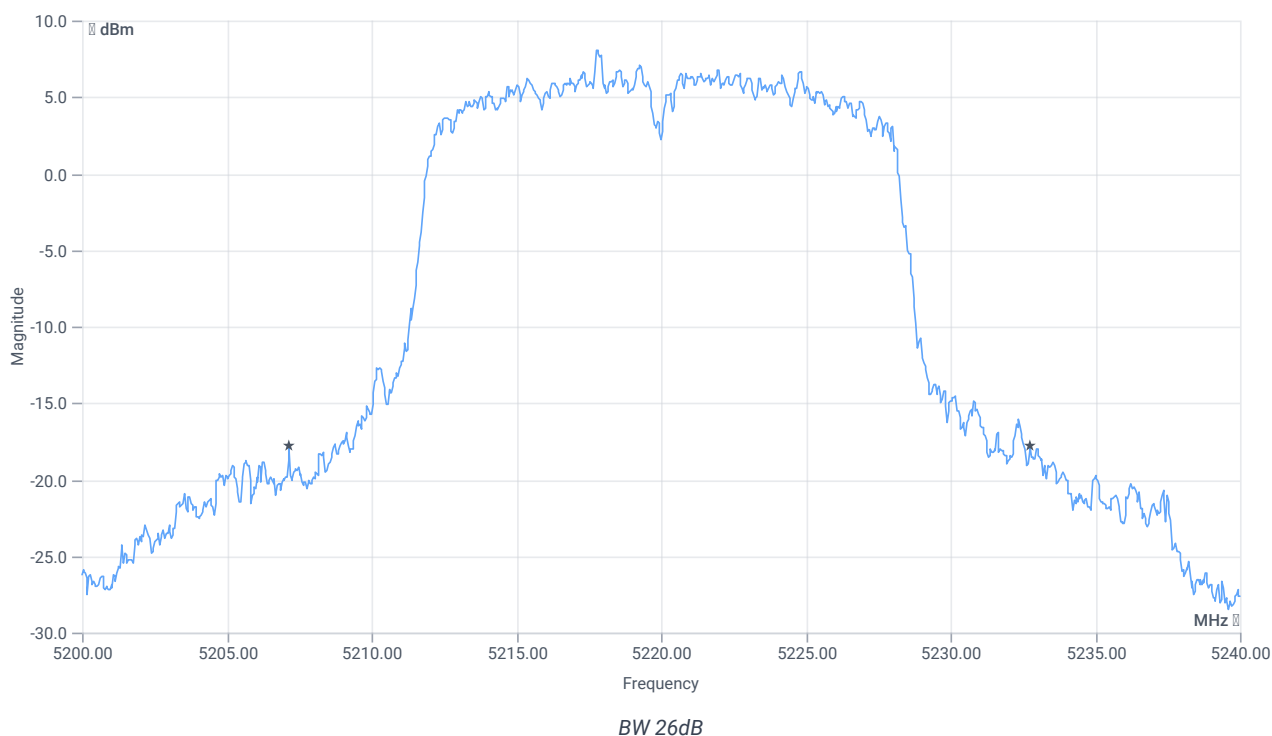
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 50					
Duty cycle (burst Ratio) max	---	---	0.937	---	INFO
Duty cycle max	---	---	0.283	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.901	---	INFO
Duty cycle min	---	---	0.453	dB	INFO
Max TX burst length	---	---	2.054	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



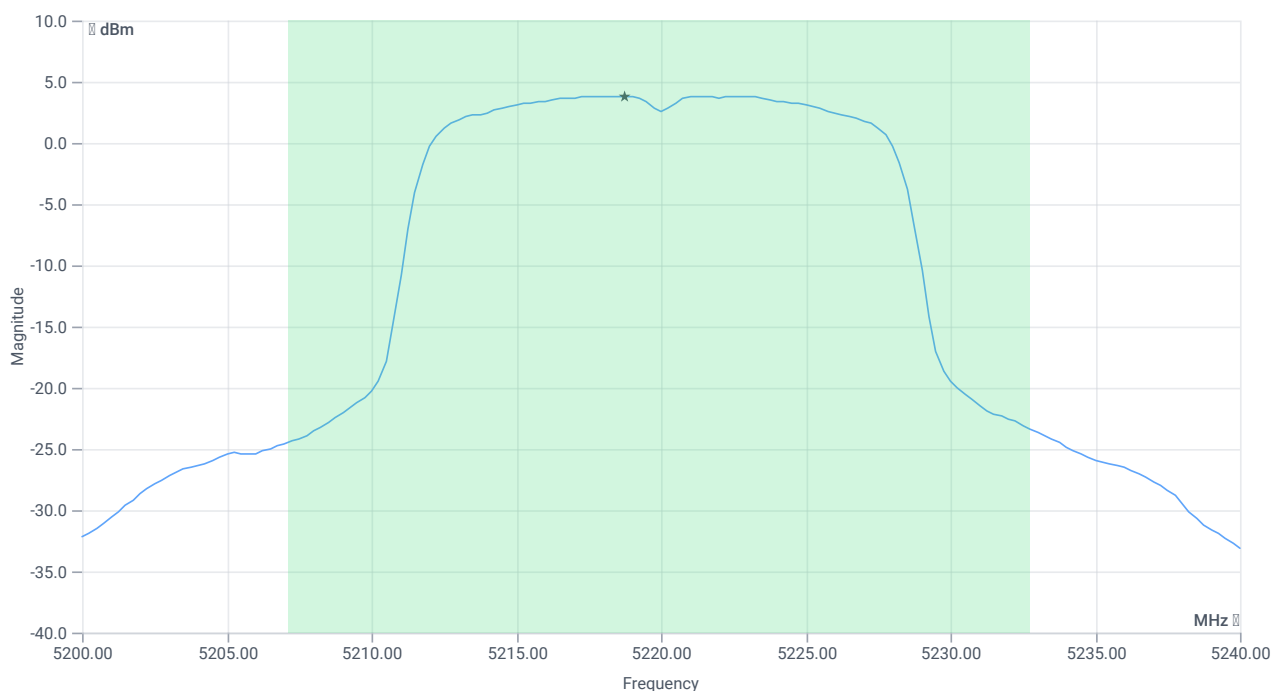
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	25.6	MHz	INFO
T1 26dB	---	---	5207.1600	MHz	INFO
T2 26dB	---	---	5232.7600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	24.49 10.15 30
Start [MHz] Stop [MHz]	5200.000 5240.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	14.93	dBm	INFO
Duty cycle correction	---	---	0.45	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	15.38	dBm	PASS
LIMIT: 11 dBm + 10 log 25.6					
Max output power DC corrected cond	---	25.08	15.38	dBm	na

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	---	---	3.83	dBm/1MHz	INFO
Duty cycle correction	---	---	0.45	dB	INFO
Power spectral density DC corrected cond	---	11	4.28	dBm/1MHz	PASS

Verdict

PASS

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

References

TC start	16.07.2025 13:07:23
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5220 MHz

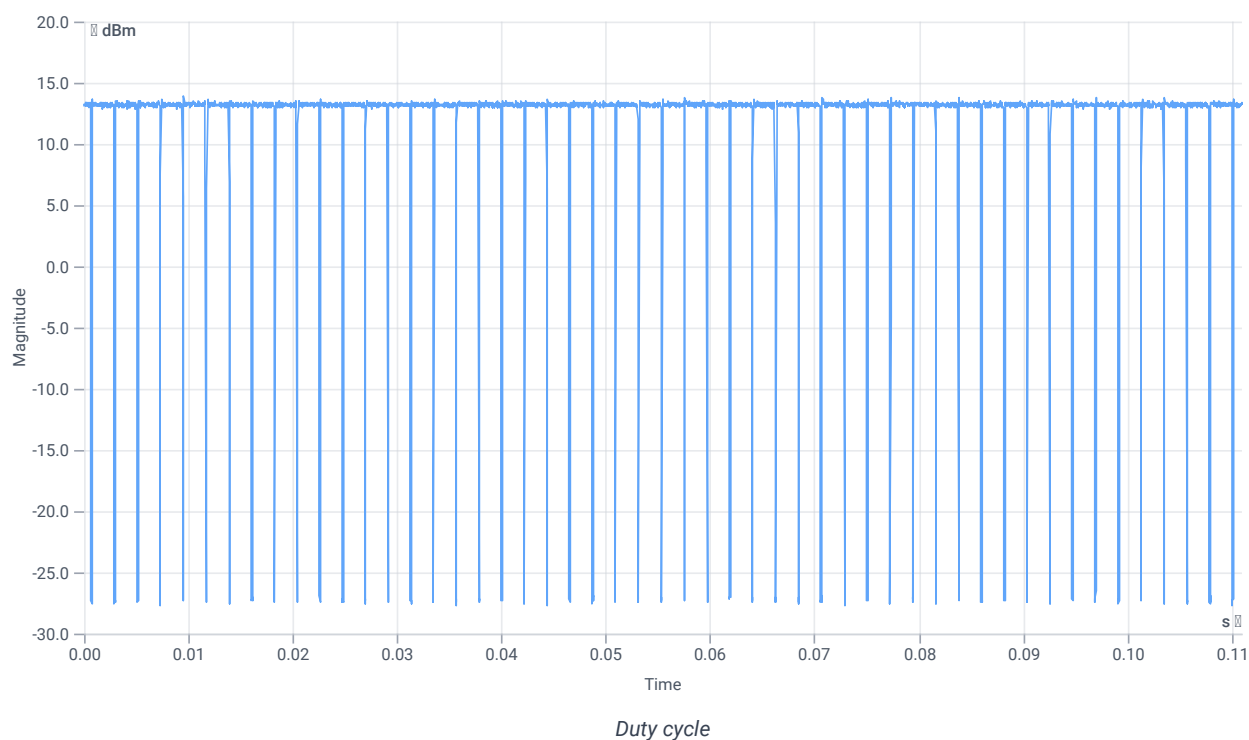
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.83	dBm	INFO
Ref. frequency	---	---	5218.400	MHz	INFO

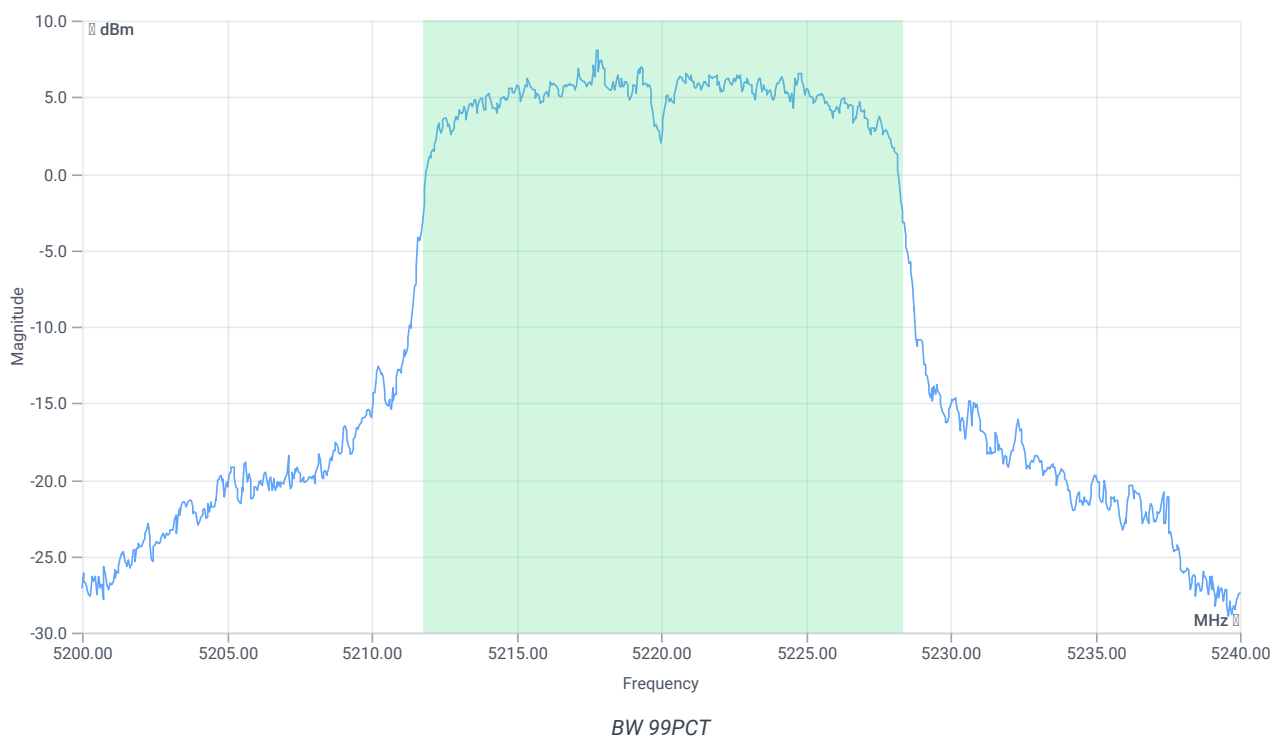
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 50					
Duty cycle (burst Ratio) max	---	---	0.937	---	INFO
Duty cycle max	---	---	0.283	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.901	---	INFO
Duty cycle min	---	---	0.453	dB	INFO
Max TX burst length	---	---	2.054	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	16.583	MHz	INFO
T1 99%	---	---	5211.7682	MHz	INFO
T2 99%	---	---	5228.3516	MHz	INFO

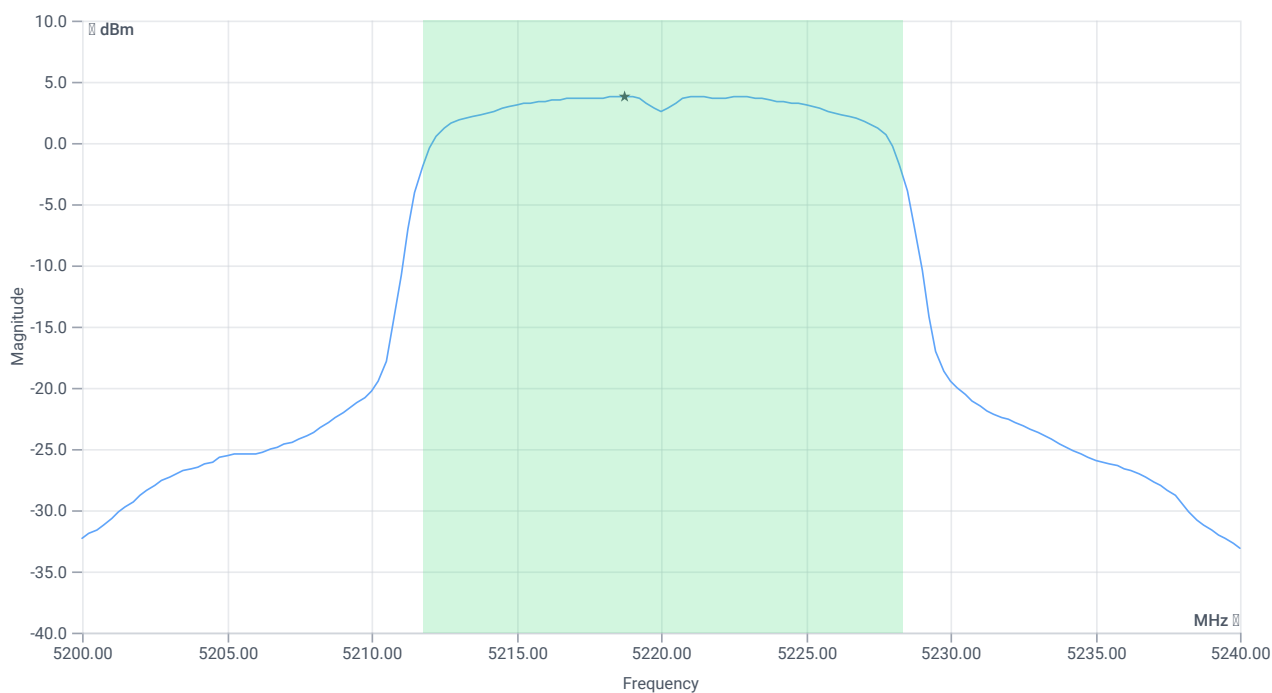
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	2.95 @ 5220 MHz
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READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.83 10.15 30
Start [MHz] Stop [MHz]	5200.000 5240.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					
Max output power cond	---	---	14.84	dBm	INFO
Duty cycle correction	---	---	0.45	dB	INFO
Max output power DC corrected cond	---	---	15.29	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	18.24	dBm	PASS
LIMIT: 10 dBm + 10 log 16.583					
Max output power DC corrected eirp	---	22.2	18.24	dBm	PASS
Power spectral density eirp	---		6.77	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	7.22	dBm/1MHz	PASS

Verdict

PASS

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

References

TC start	16.07.2025 13:09:04
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

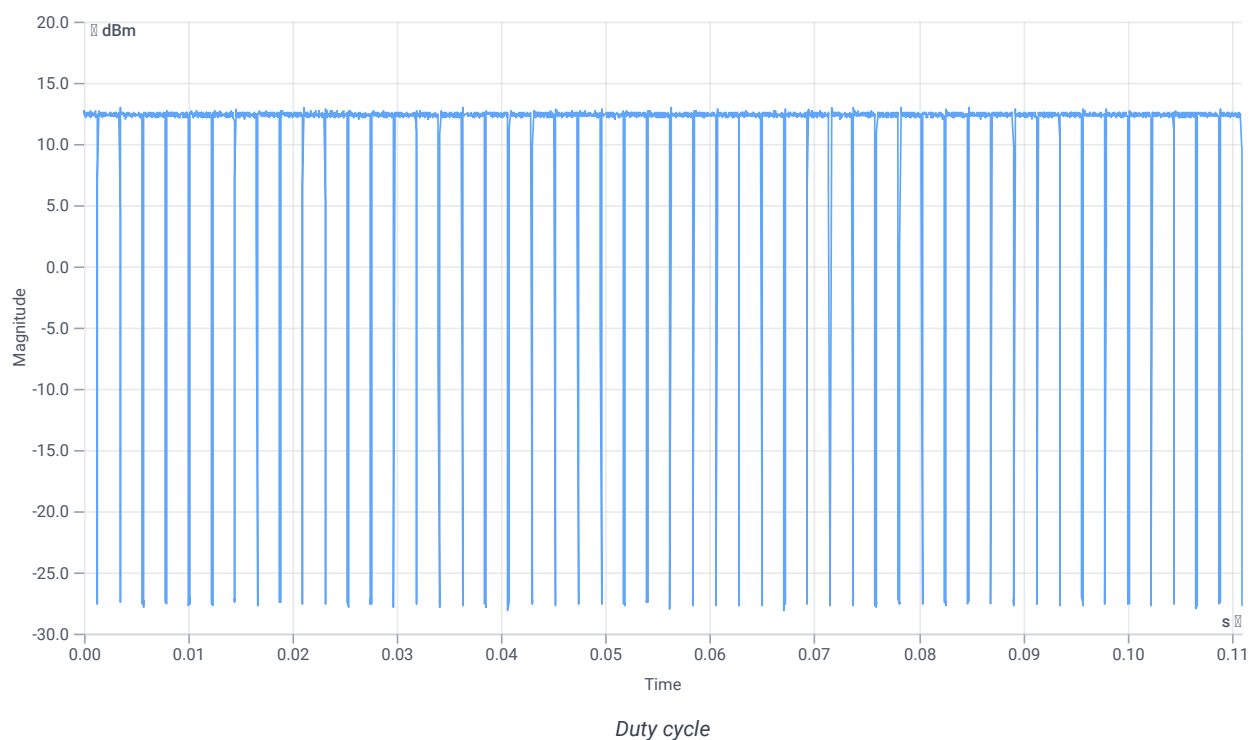
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.09	dBm	INFO
Ref. frequency	---	---	5237.200	MHz	INFO

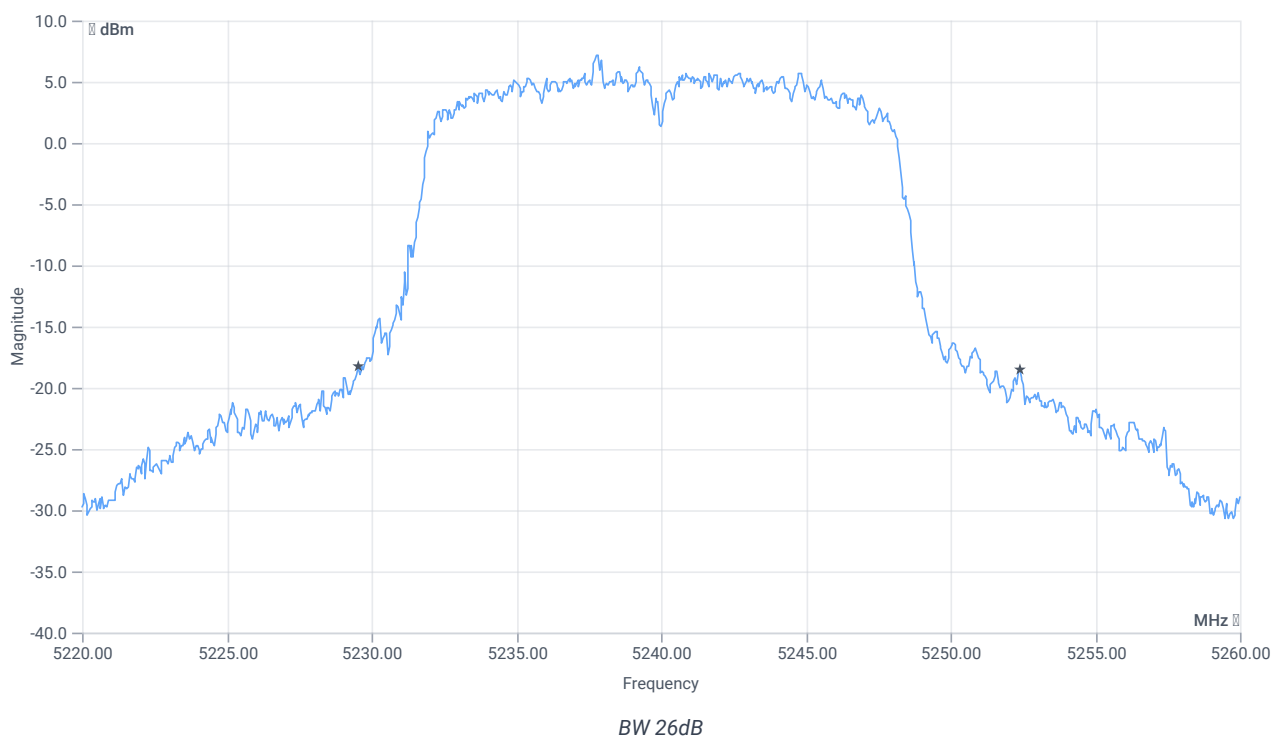
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 49					
Duty cycle (burst Ratio) max	---	---	0.937	---	INFO
Duty cycle max	---	---	0.283	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.901	---	INFO
Duty cycle min	---	---	0.453	dB	INFO
Max TX burst length	---	---	2.054	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



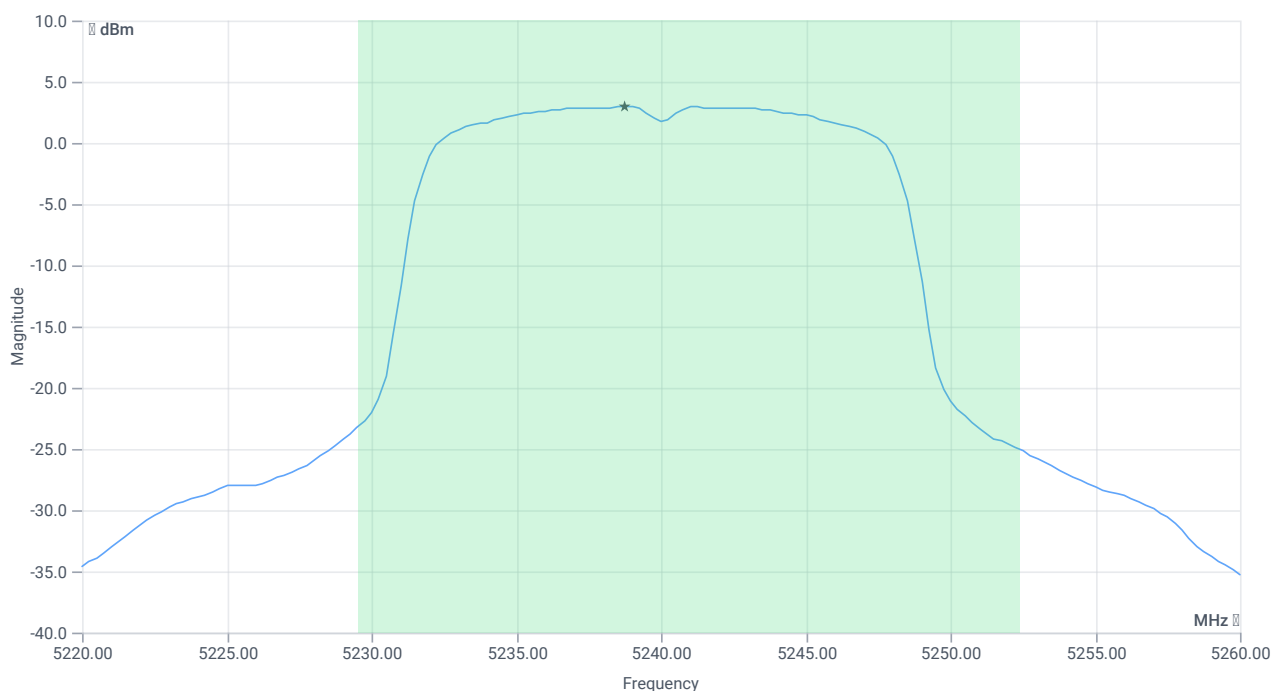
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.88	MHz	INFO
T1 26dB	---	---	5229.5200	MHz	INFO
T2 26dB	---	---	5252.4000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.09 10.07 30
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	14.07	dBm	INFO
Duty cycle correction	---	---	0.45	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	14.52	dBm	PASS
LIMIT: 11 dBm + 10 log 22.88					
Max output power DC corrected cond	---	24.59	14.52	dBm	na

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	---	---	2.98	dBm/1MHz	INFO
Duty cycle correction	---	---	0.45	dB	INFO
Power spectral density DC corrected cond	---	11	3.43	dBm/1MHz	PASS

Verdict

PASS

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

References

TC start	16.07.2025 13:10:40
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

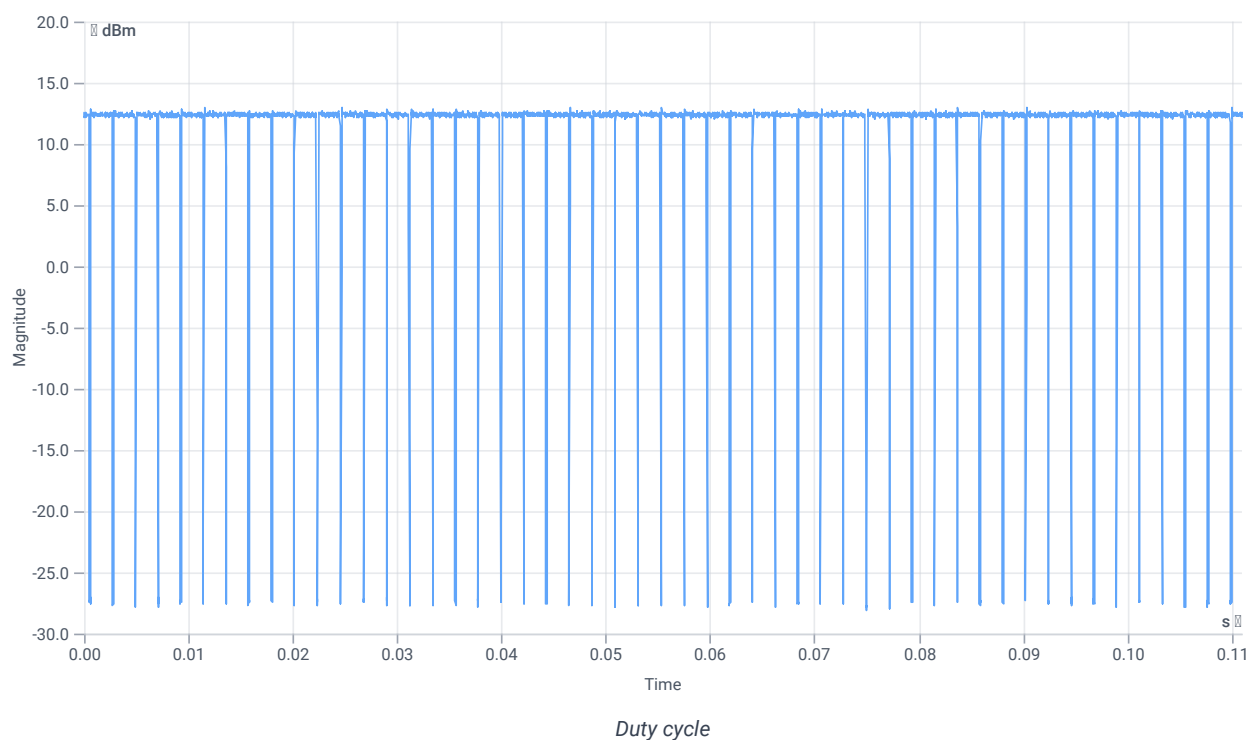
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.12	dBm	INFO
Ref. frequency	---	---	5238.000	MHz	INFO

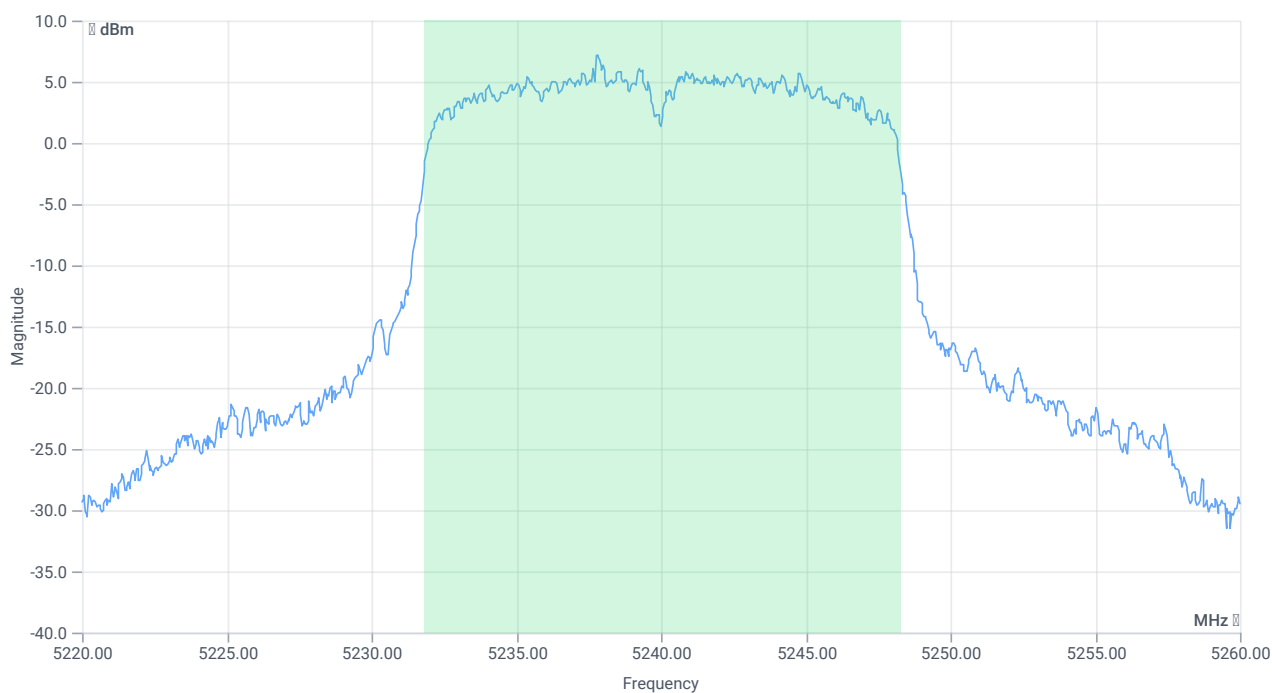
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 50					
Duty cycle (burst Ratio) max	---	---	0.937	---	INFO
Duty cycle max	---	---	0.283	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.901	---	INFO
Duty cycle min	---	---	0.453	dB	INFO
Max TX burst length	---	---	2.054	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	16.503	MHz	INFO
T1 99%	---	---	5231.8082	MHz	INFO
T2 99%	---	---	5248.3117	MHz	INFO

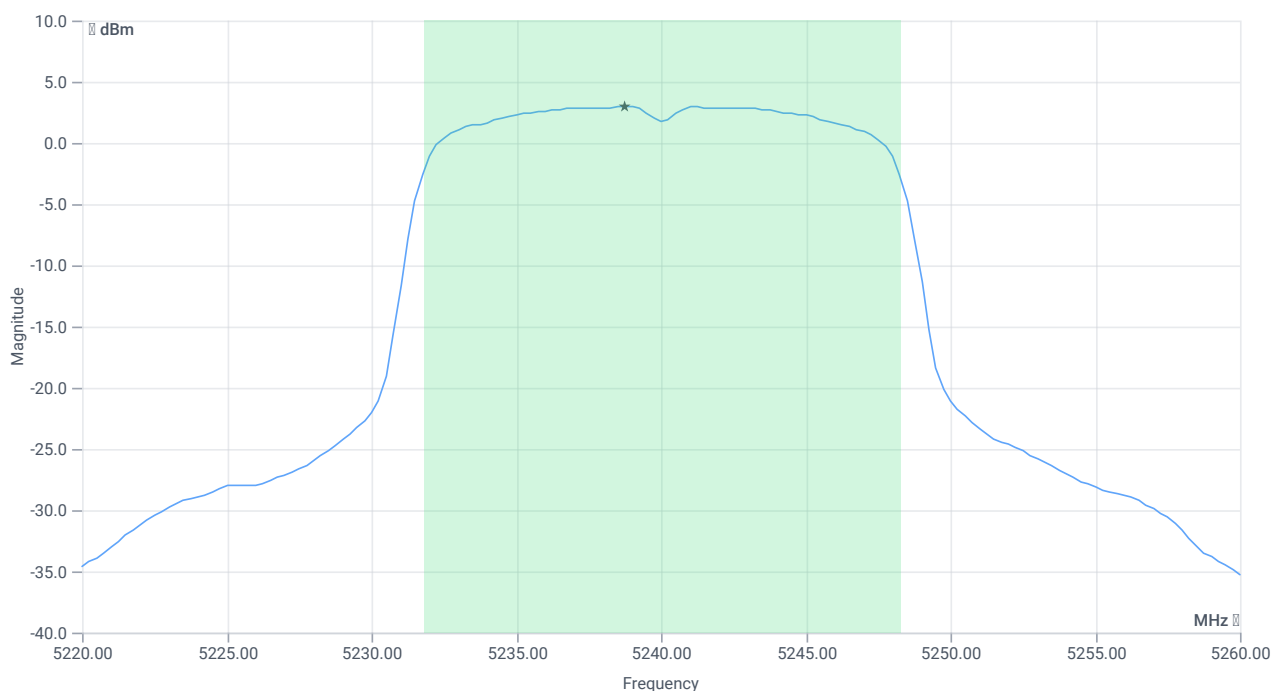
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 2.55 @ 5240 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.12 10.07 30
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14	dBm	INFO
Duty cycle correction	---	---	0.45	dB	INFO
Max output power DC corrected cond	---	---	14.45	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	17	dBm	PASS
LIMIT: 10 dBm + 10 log 16.503					
Max output power DC corrected eirp	---	22.18	17	dBm	PASS
Power spectral density eirp	---		5.51	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	5.96	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	16.07.2025 13:12:21
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

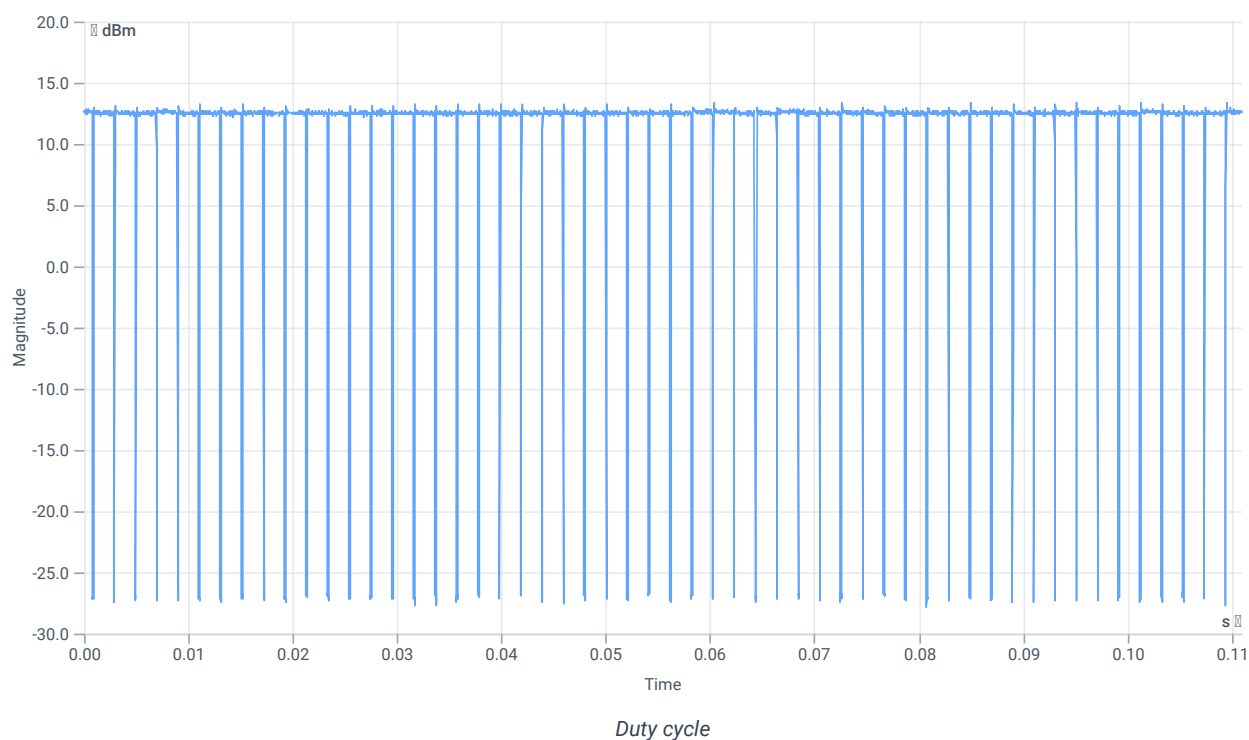
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.33	dBm	INFO
Ref. frequency	---	---	5178.200	MHz	INFO

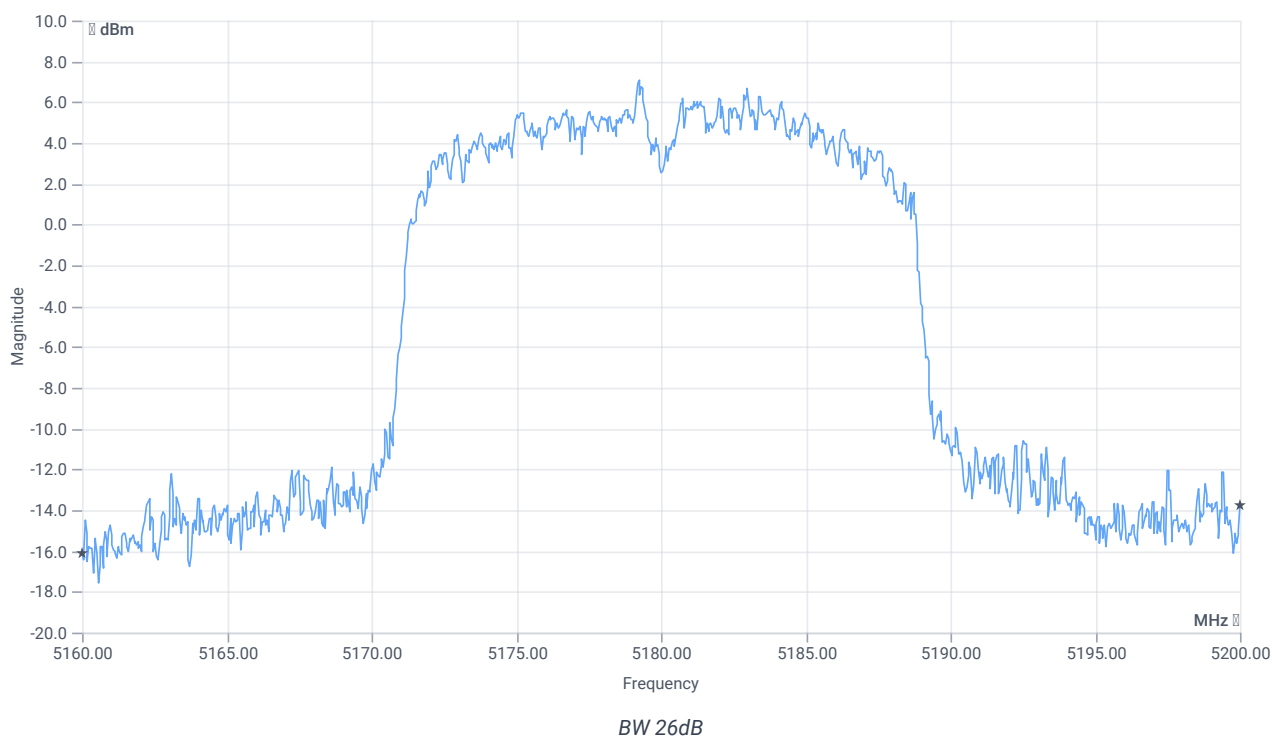
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



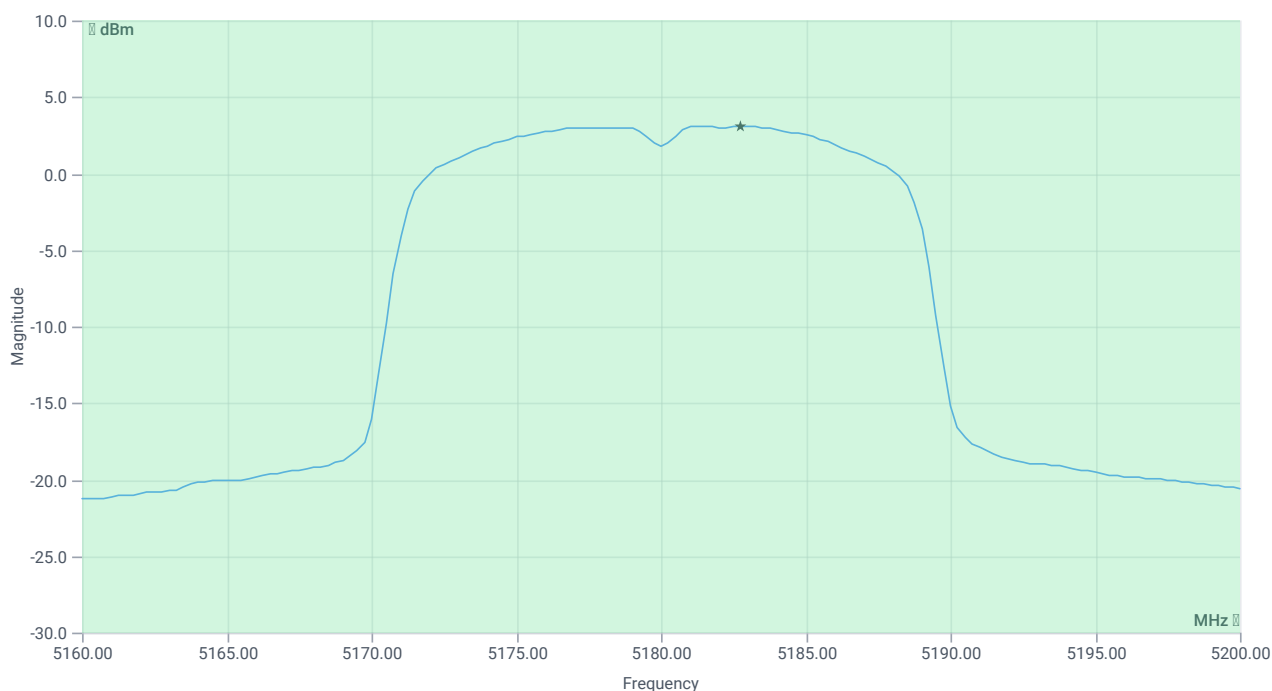
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40	MHz	INFO
T1 26dB	---	---	5160.0000	MHz	INFO
T2 26dB	---	---	5200.0000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.33 10.34 30
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14.42	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	14.9	dBm	PASS
LIMIT: 11 dBm + 10 log 40					
Max output power DC corrected cond	---	27.02	14.9	dBm	na

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	---	---	3.08	dBm/1MHz	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Power spectral density DC corrected cond	---	11	3.56	dBm/1MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	16.07.2025 13:13:58
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetekom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

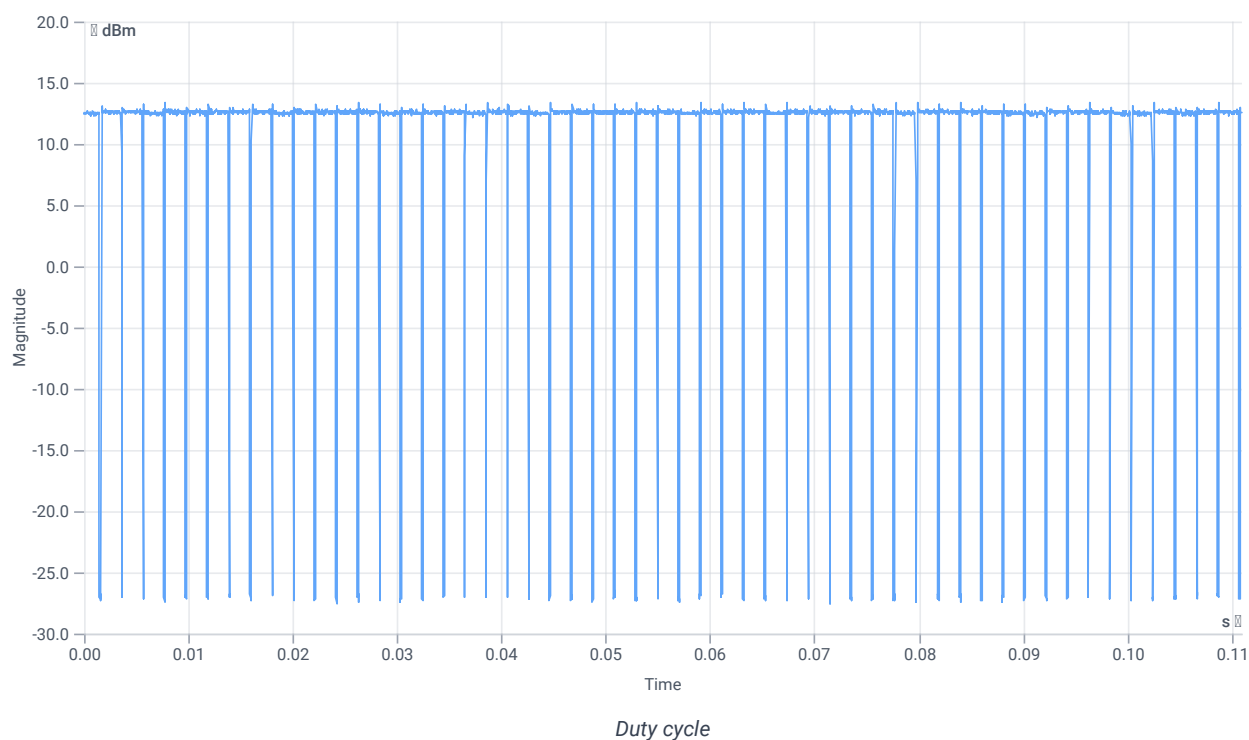
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.65	dBm	INFO
Ref. frequency	---	---	5177.800	MHz	INFO

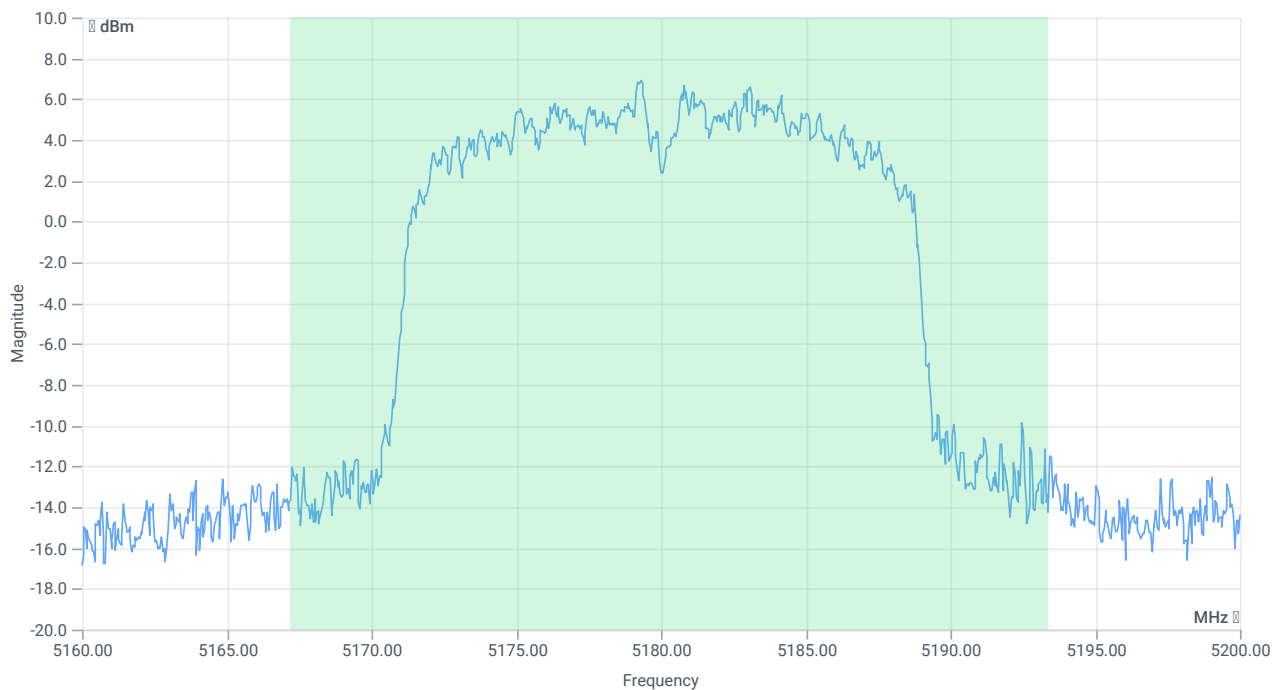
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.885	---	INFO
Duty cycle min	---	---	0.531	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.25	ms	INFO



Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	26.174	MHz	INFO
T1 99%	---	---	5167.2128	MHz	INFO
T2 99%	---	---	5193.3866	MHz	INFO

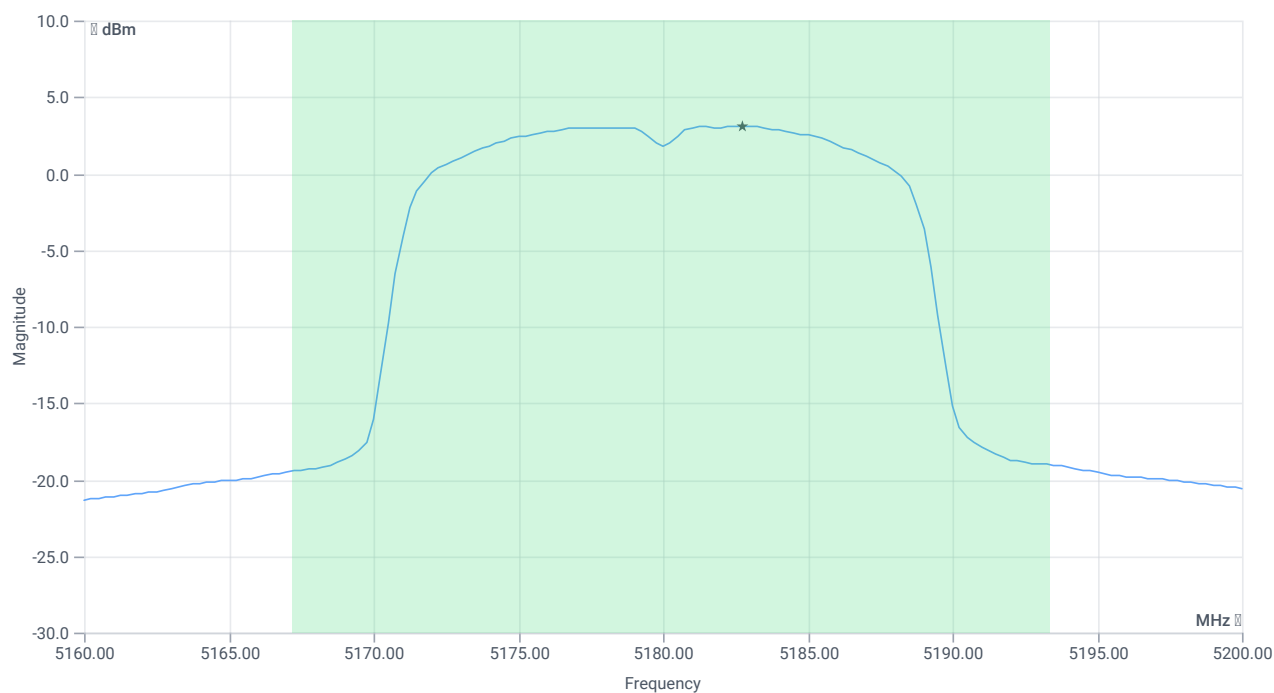
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 2.9 @ 5180 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.65 10.34 30
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14.39	dBm	INFO
Duty cycle correction	---	---	0.53	dB	INFO
Max output power DC corrected cond	---	---	14.92	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	17.82	dBm	PASS
LIMIT: 10 dBm + 10 log 26.174					
Max output power DC corrected eirp	---	24.18	17.82	dBm	PASS
Power spectral density eirp	---		6	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	6.529999999999999	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	16.07.2025 13:15:45
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5220 MHz

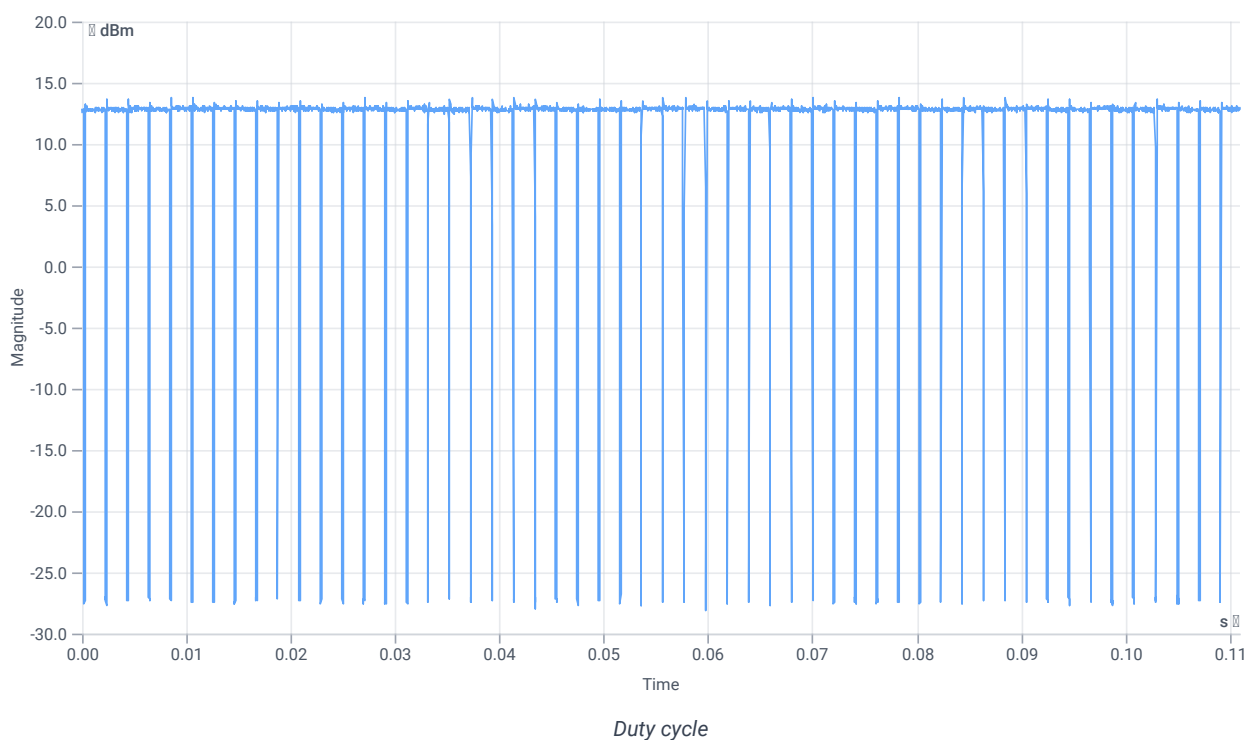
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.59	dBm	INFO
Ref. frequency	---	---	5216.800	MHz	INFO

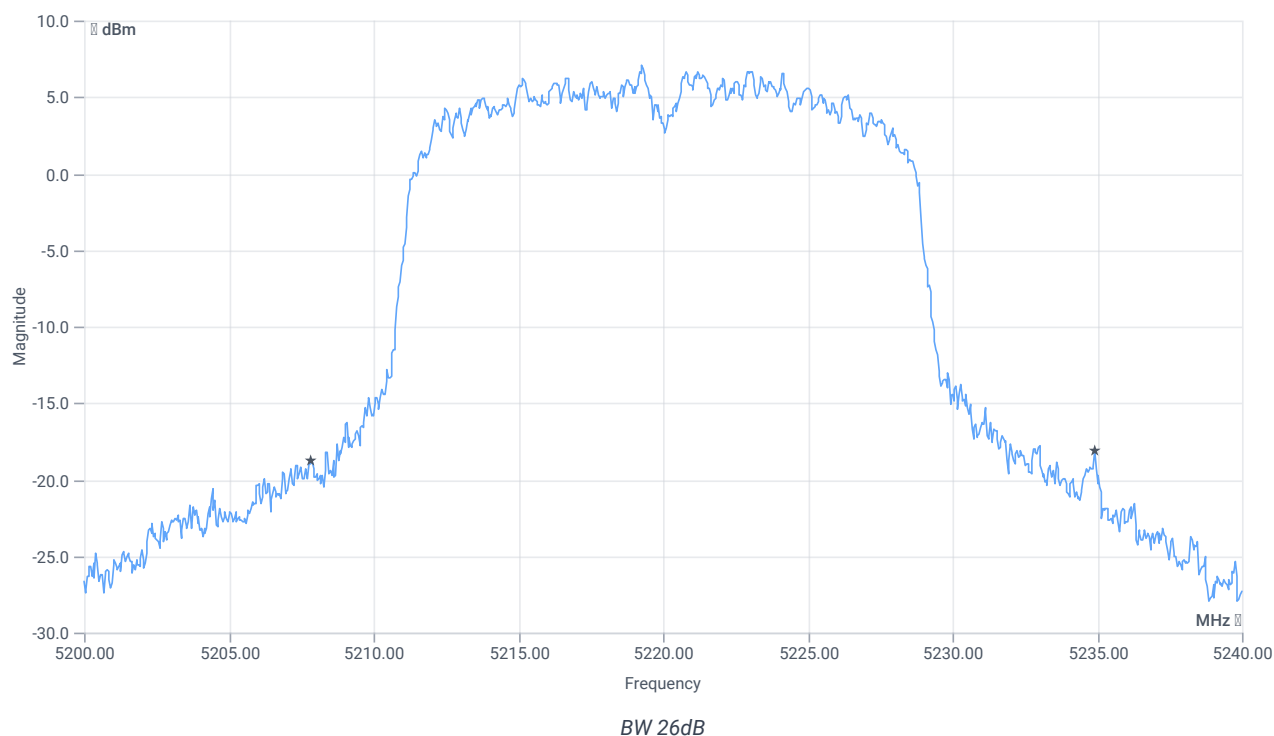
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



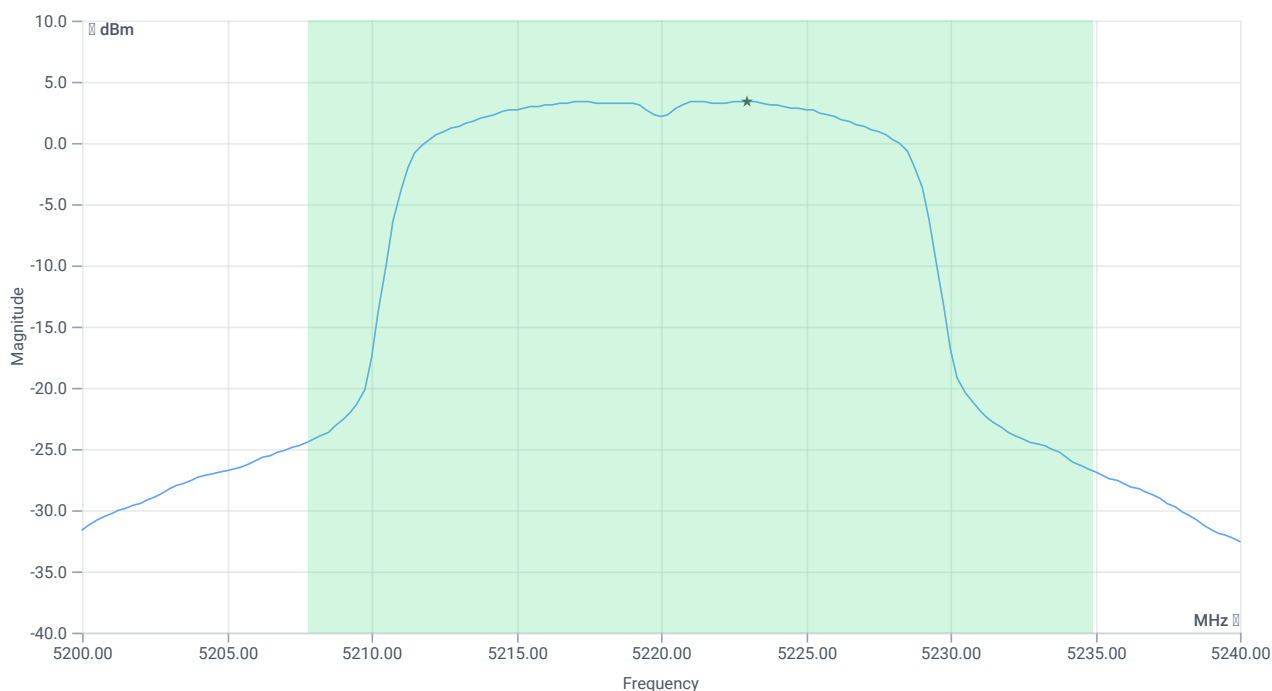
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	27.08	MHz	INFO
T1 26dB	---	---	5207.8400	MHz	INFO
T2 26dB	---	---	5234.9200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.59 10.15 30
Start [MHz] Stop [MHz]	5200.000 5240.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14.67	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	15.15	dBm	PASS
LIMIT: 11 dBm + 10 log 27.08					
Max output power DC corrected cond	---	25.33	15.15	dBm	na

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	---	---	3.38	dBm/1MHz	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Power spectral density DC corrected cond	---	11	3.86	dBm/1MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	16.07.2025 13:17:19
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5220 MHz

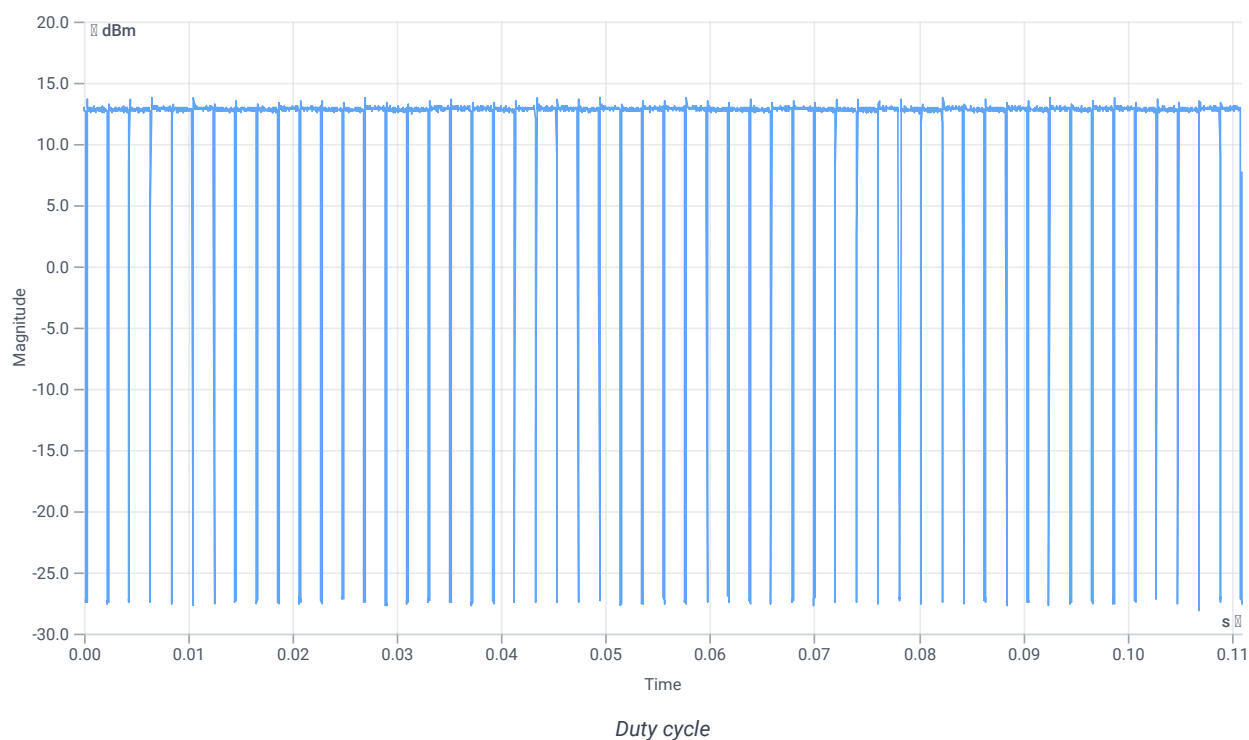
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	12.01	dBm	INFO
Ref. frequency	---	---	5218.400	MHz	INFO

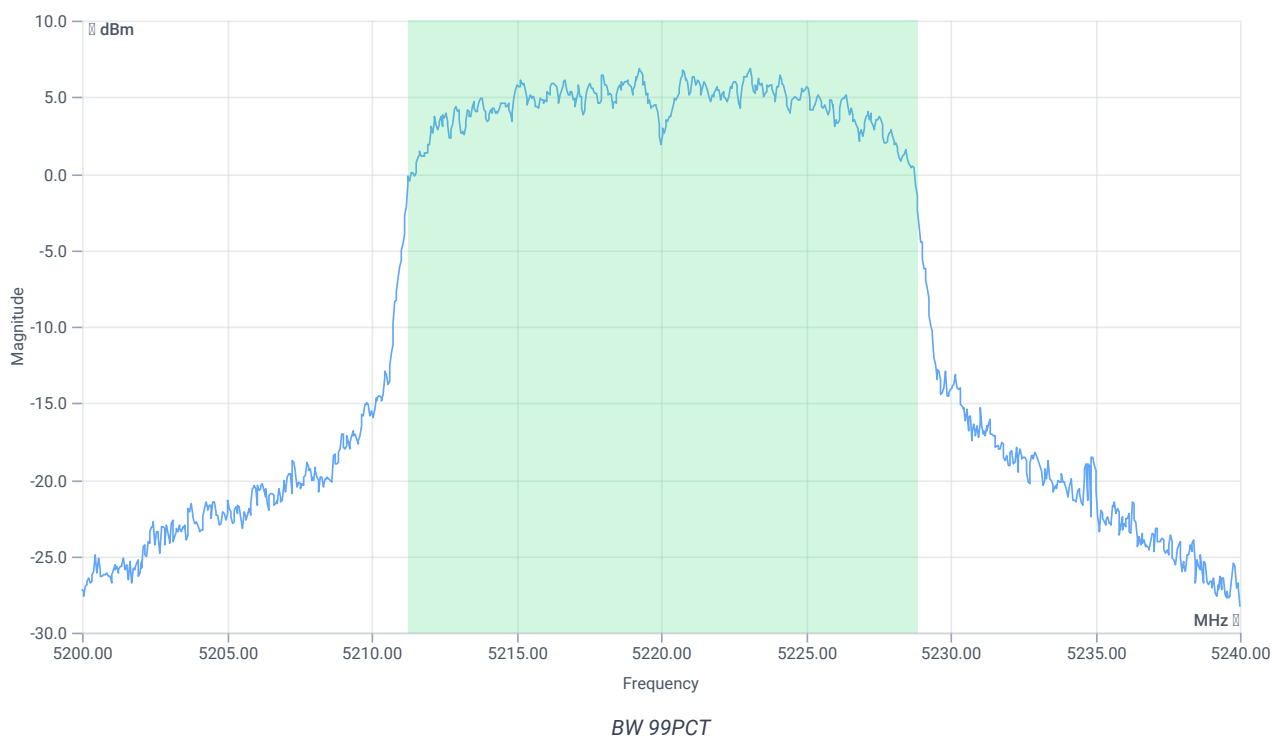
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 54					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	17.622	MHz	INFO
T1 99%	---	---	5211.2488	MHz	INFO
T2 99%	---	---	5228.8711	MHz	INFO

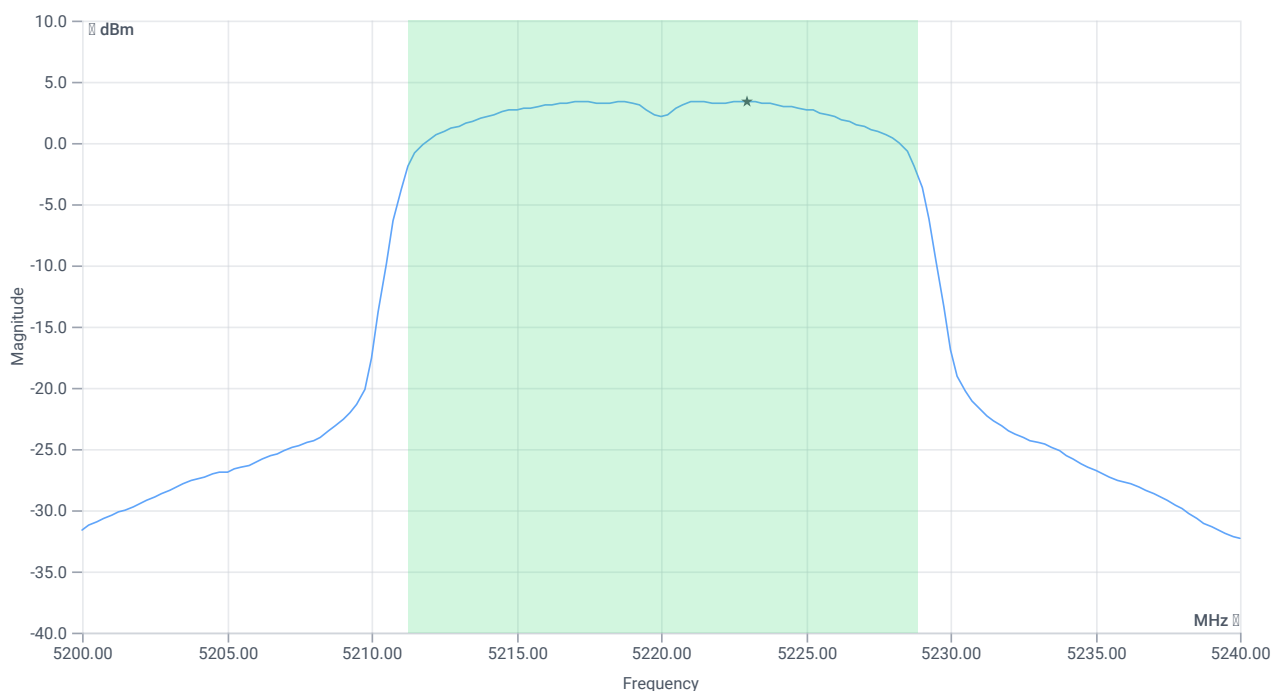
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	2.95 @ 5220 MHz
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READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	24.01 10.15 30
Start [MHz] Stop [MHz]	5200.000 5240.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14.61	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Max output power DC corrected cond	---	---	15.09	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	18.04	dBm	PASS
LIMIT: 10 dBm + 10 log 17.622					
Max output power DC corrected eirp	---	22.46	18.04	dBm	PASS
Power spectral density eirp	---		6.32	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	6.800000000000001	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	16.07.2025 13:19:02
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

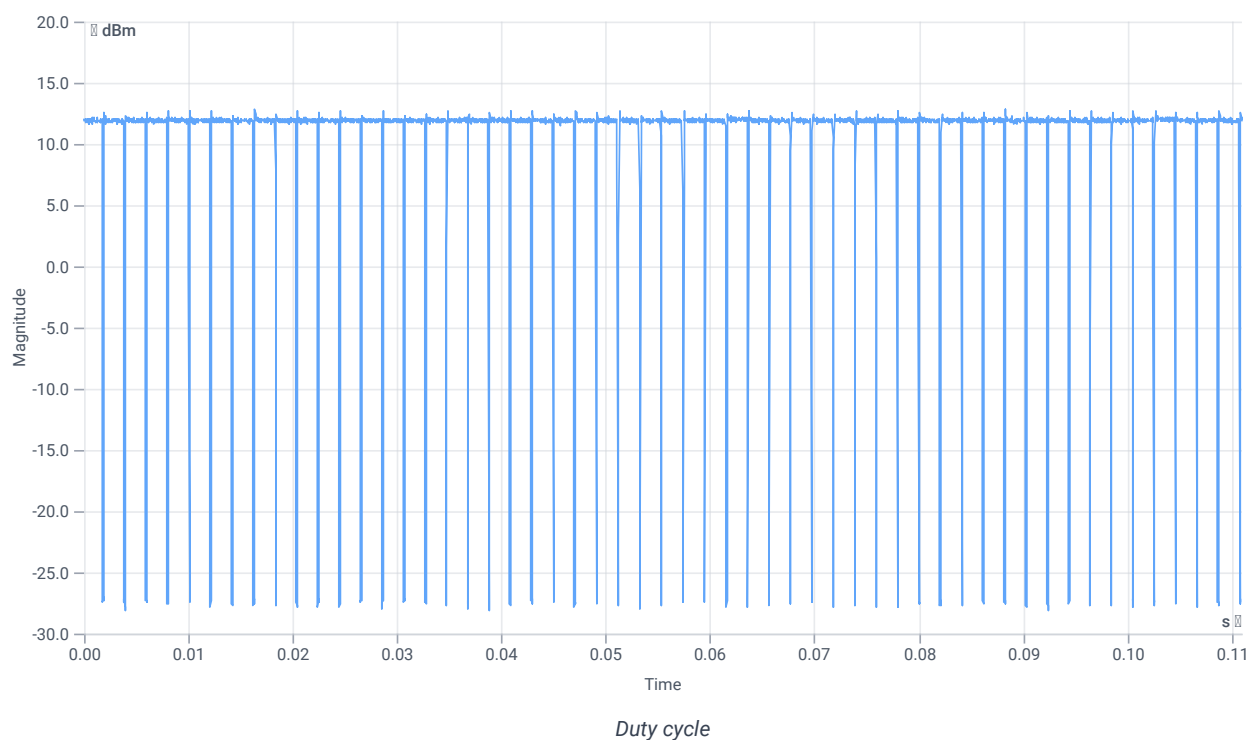
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	10.92	dBm	INFO
Ref. frequency	---	---	5241.400	MHz	INFO

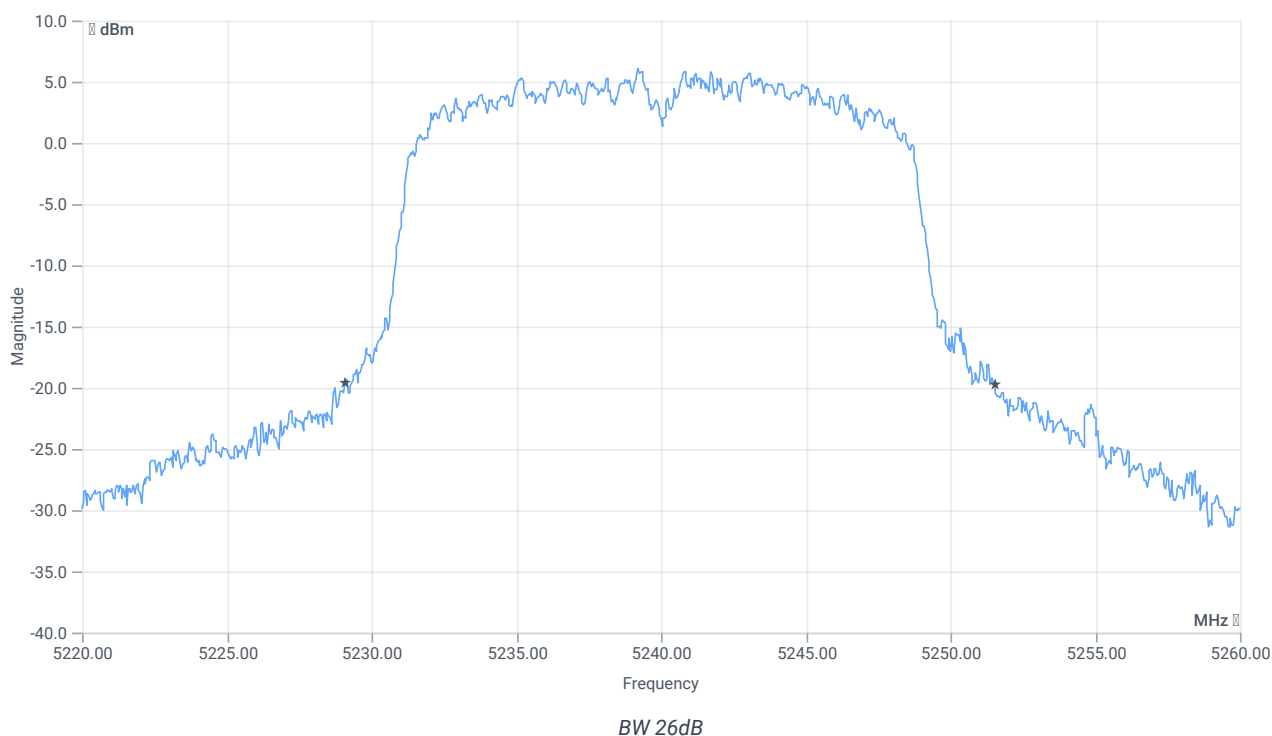
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



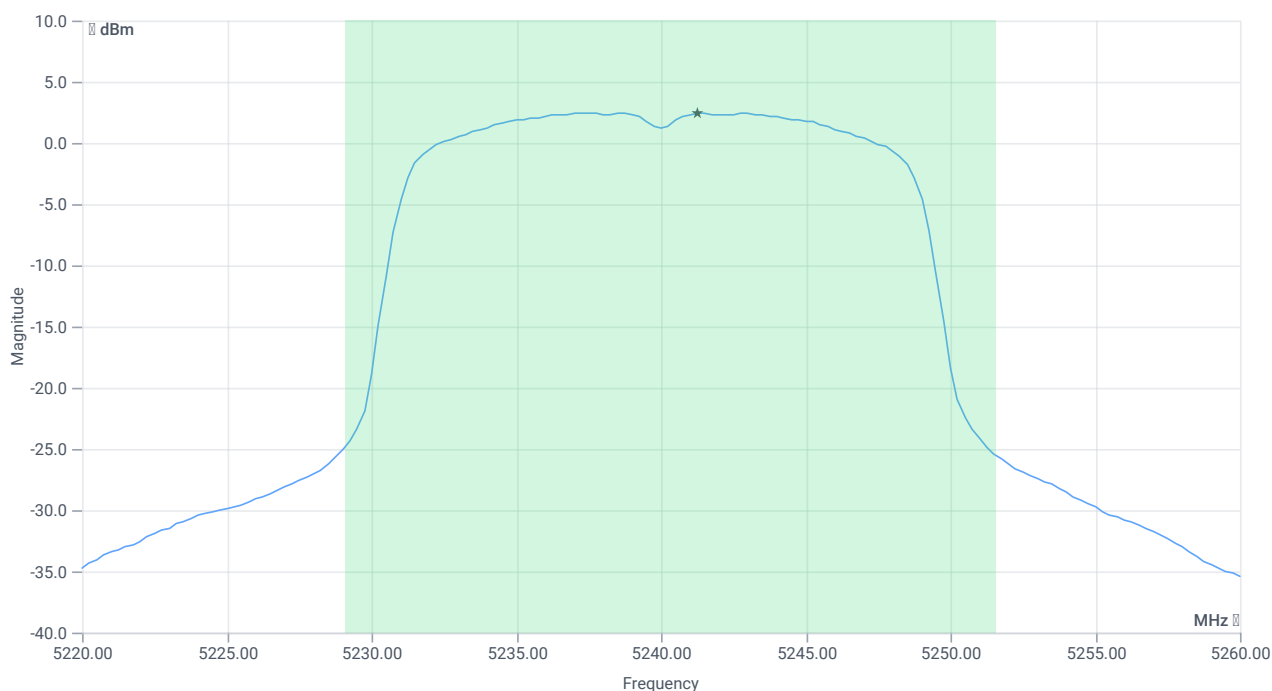
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.44	MHz	INFO
T1 26dB	---	---	5229.0800	MHz	INFO
T2 26dB	---	---	5251.5200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.92 10.07 30
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	13.73	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	14.21	dBm	PASS
LIMIT: 11 dBm + 10 log 22.44					
Max output power DC corrected cond	---	24.51	14.21	dBm	na

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	---	---	2.4	dBm/1MHz	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Power spectral density DC corrected cond	---	11	2.88	dBm/1MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	16.07.2025 13:20:35
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetekom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

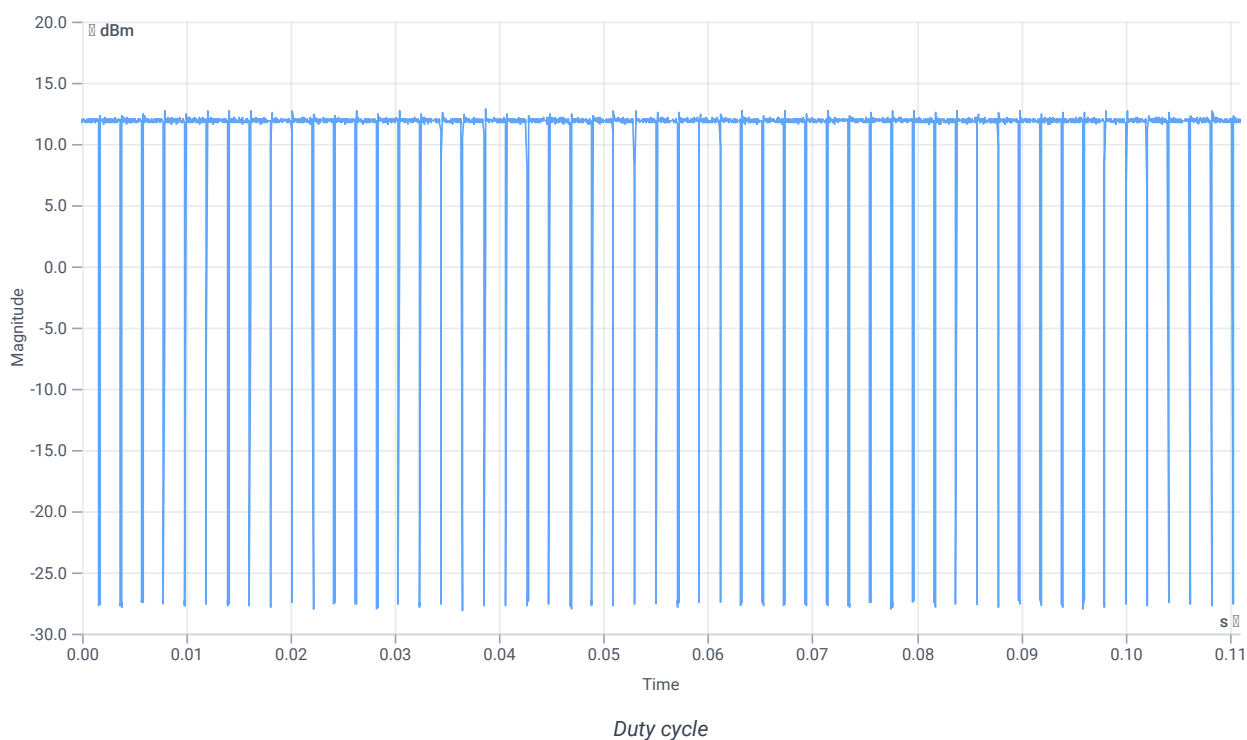
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	10.72	dBm	INFO
Ref. frequency	---	---	5238.800	MHz	INFO

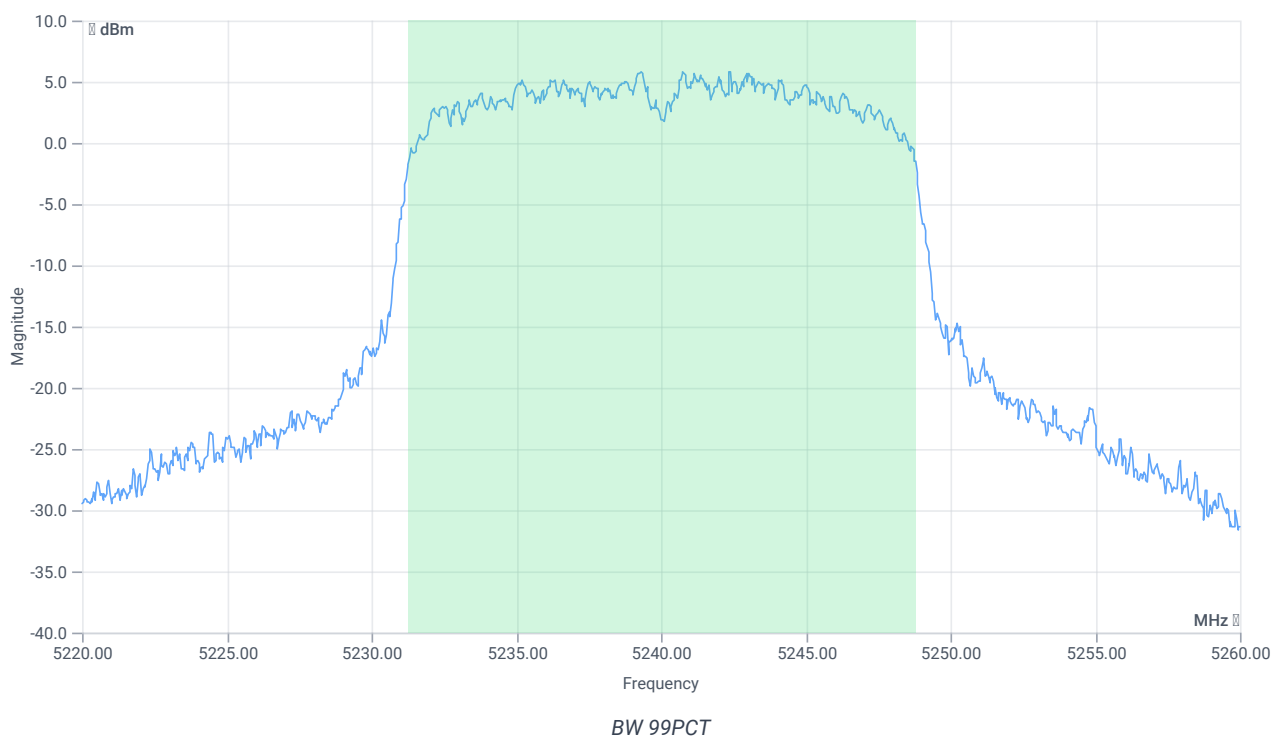
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	17.542	MHz	INFO
T1 99%	---	---	5231.2488	MHz	INFO
T2 99%	---	---	5248.7912	MHz	INFO

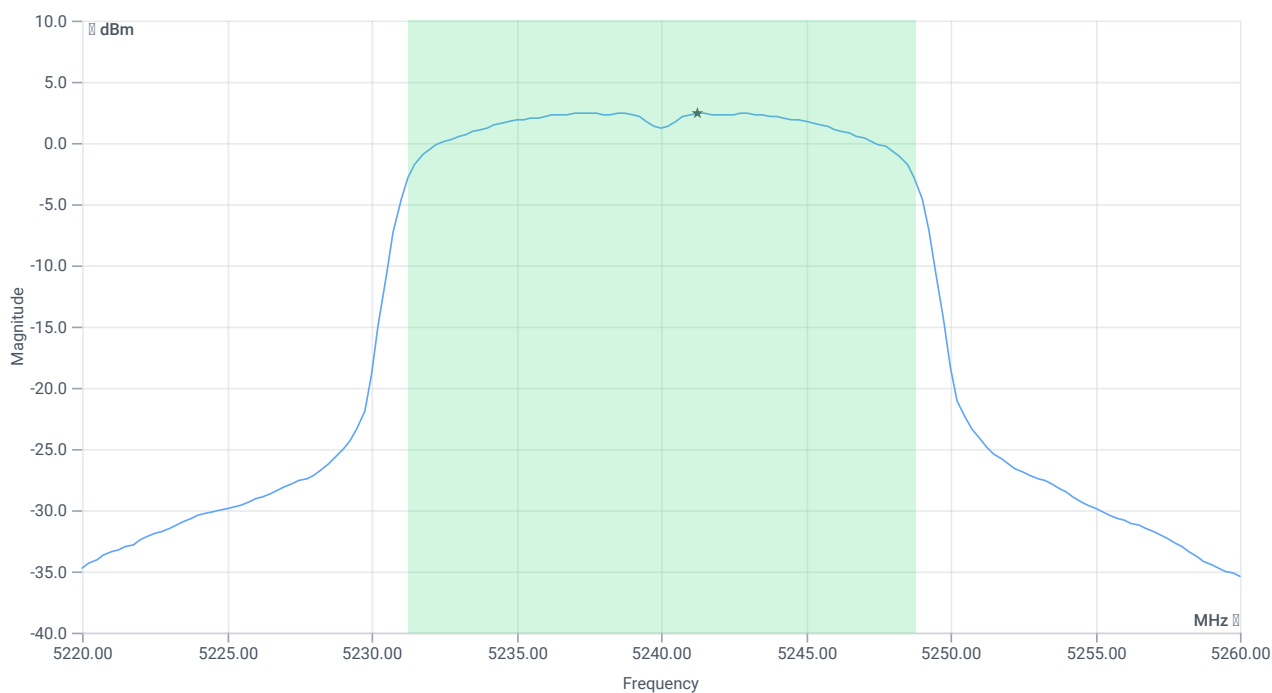
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	2.55 @ 5240 MHz
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READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.72 10.07 30
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	13.66	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Max output power DC corrected cond	---	---	14.14	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	16.69	dBm	PASS
LIMIT: 10 dBm + 10 log 17.542					
Max output power DC corrected eirp	---	22.44	16.69	dBm	PASS
Power spectral density eirp	---		4.949999999999999	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	5.43	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-1

References

TC start	16.07.2025 13:22:16
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

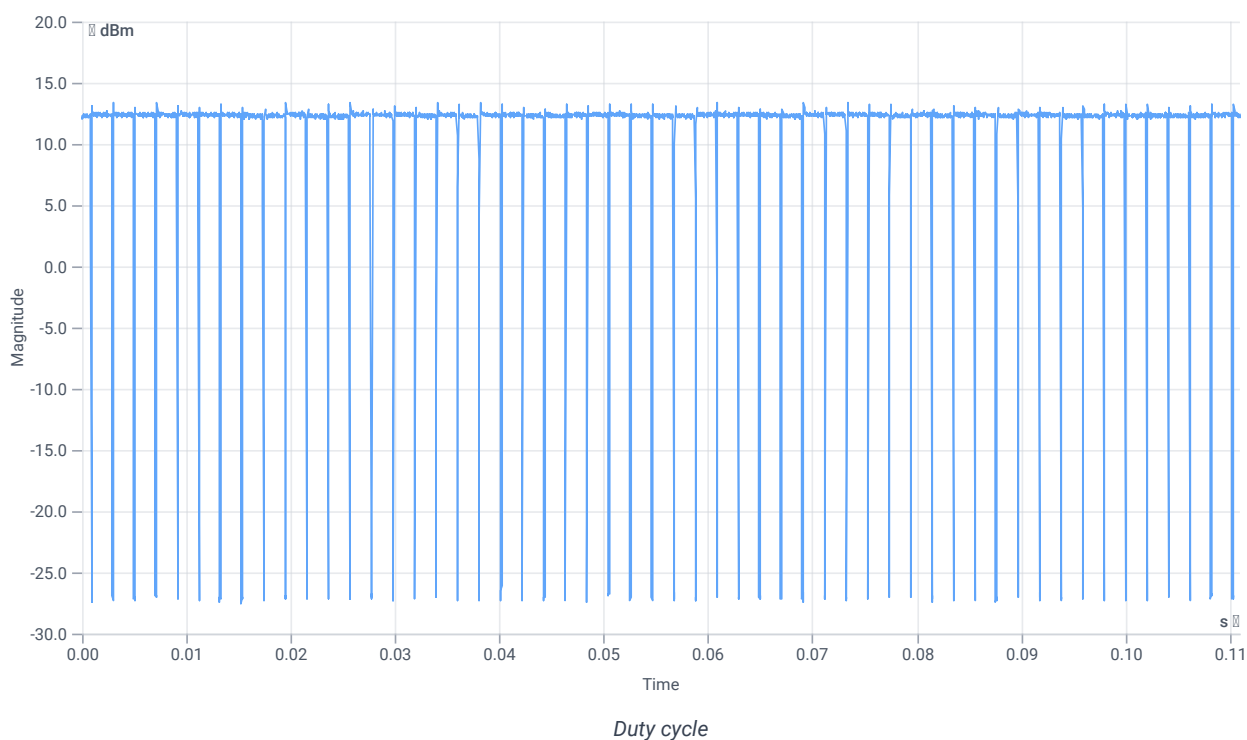
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	10.66	dBm	INFO
Ref. frequency	---	---	5178.400	MHz	INFO

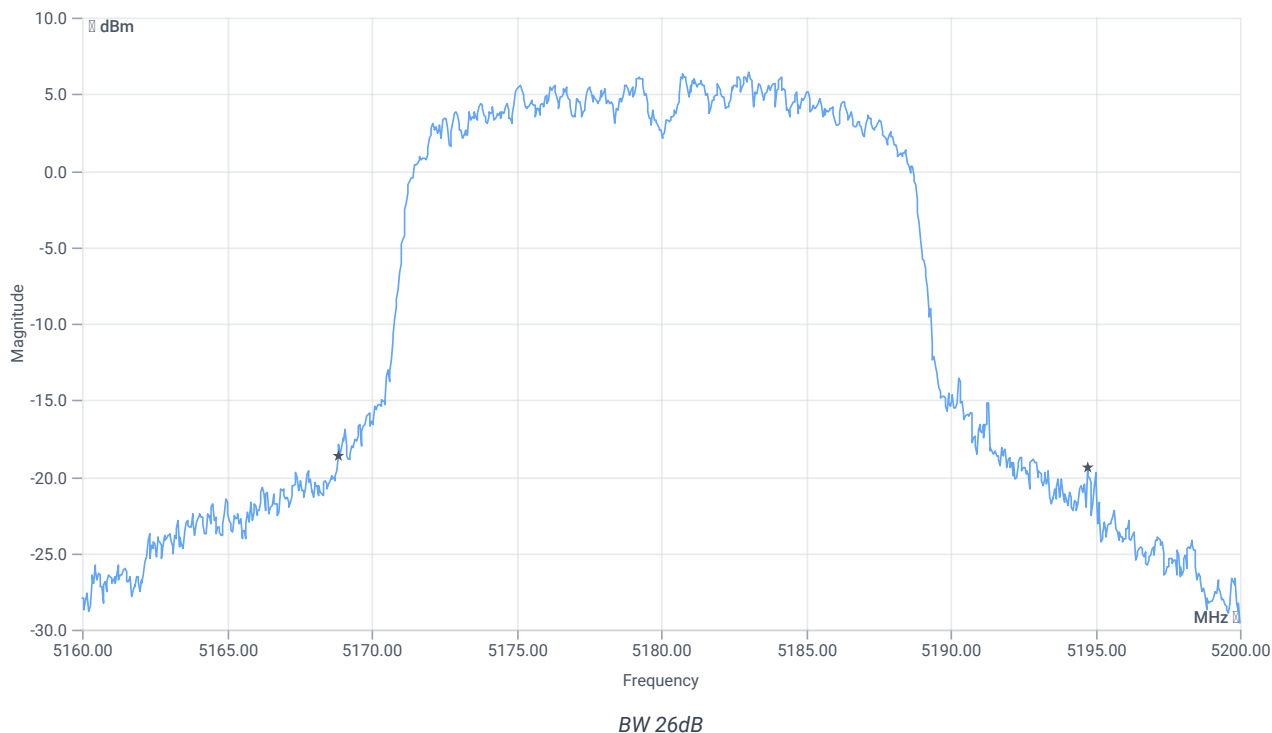
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



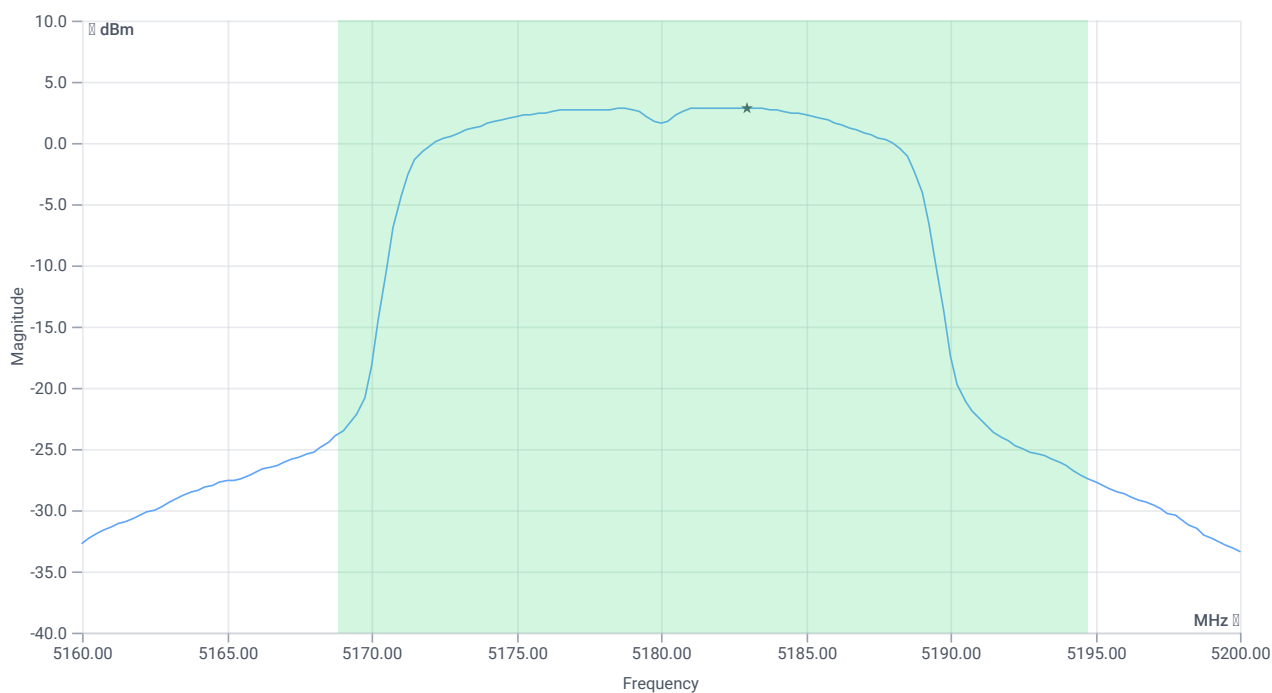
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	25.88	MHz	INFO
T1 26dB	---	---	5168.8400	MHz	INFO
T2 26dB	---	---	5194.7200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.66 10.34 30
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	14.16	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	14.64	dBm	PASS
LIMIT: 11 dBm + 10 log 25.88					
Max output power DC corrected cond	---	25.13	14.64	dBm	na

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	---	---	2.88	dBm/1MHz	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Power spectral density DC corrected cond	---	11	3.36	dBm/1MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-1

References

TC start	16.07.2025 13:23:56
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

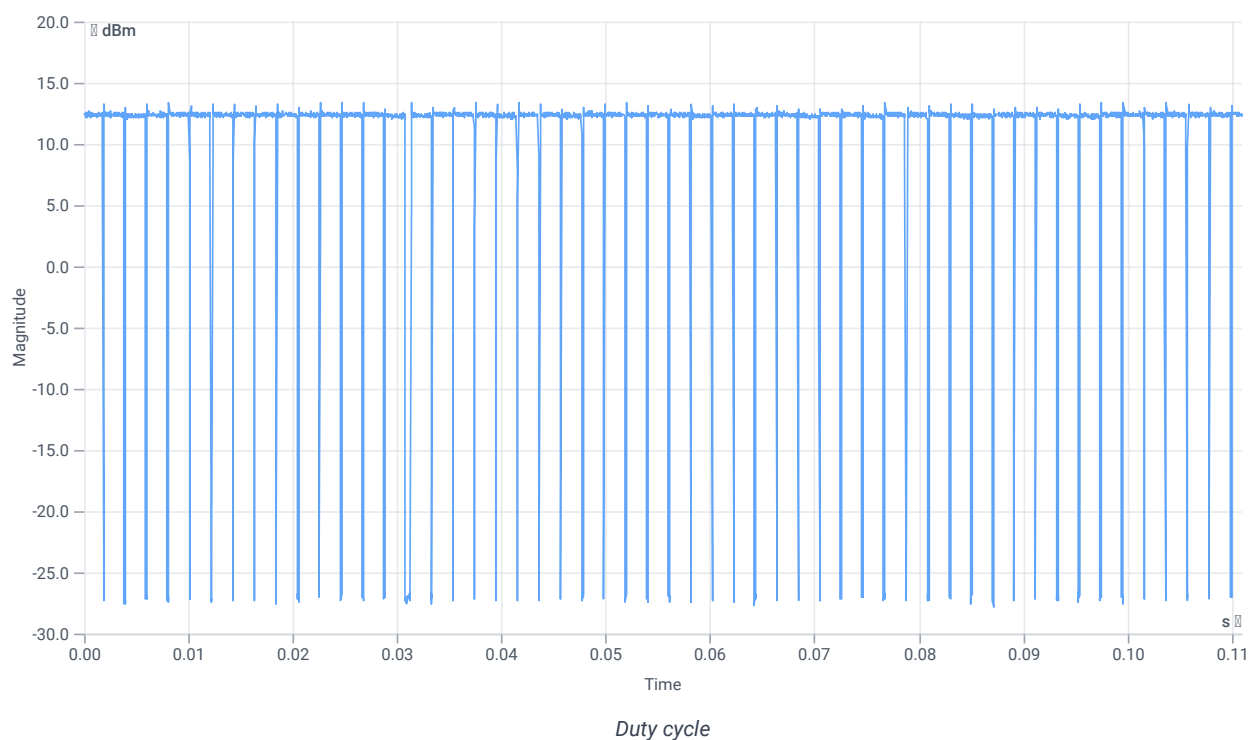
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.02	dBm	INFO
Ref. frequency	---	---	5176.800	MHz	INFO

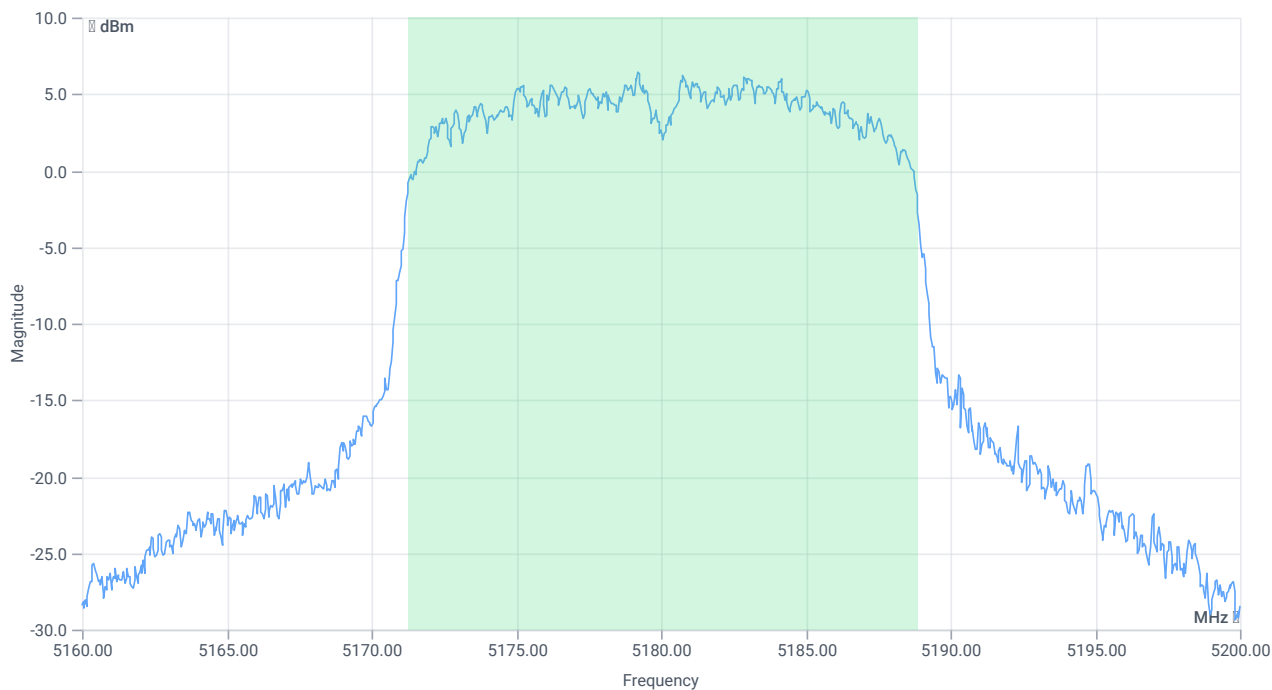
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 52					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.764	---	INFO
Duty cycle min	---	---	1.169	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.583	ms	INFO



Evaluation bandwidth



BW 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	17.622	MHz	INFO
T1 99%	---	---	5171.2488	MHz	INFO
T2 99%	---	---	5188.8711	MHz	INFO

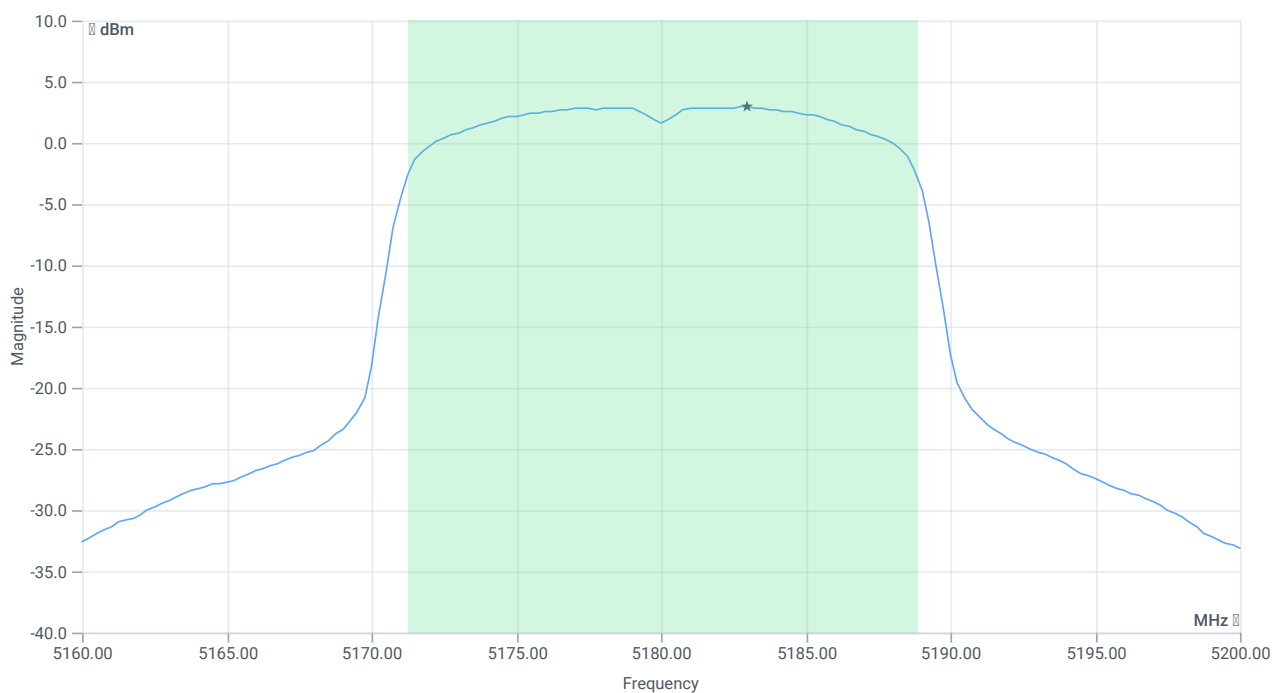
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 2.9 @ 5180 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.02 10.34 30
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Vehicular use: No					
Max output power cond	---	---	14.14	dBm	INFO
Duty cycle correction	---	---	1.17	dB	INFO
Max output power DC corrected cond	---	---	15.31	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	18.21	dBm	PASS
LIMIT: 10 dBm + 10 log 17.622					
Max output power DC corrected eirp	---	22.46	18.21	dBm	PASS
Power spectral density eirp	---		5.84	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	7.01	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-1

References

TC start	16.07.2025 13:25:41
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5220 MHz

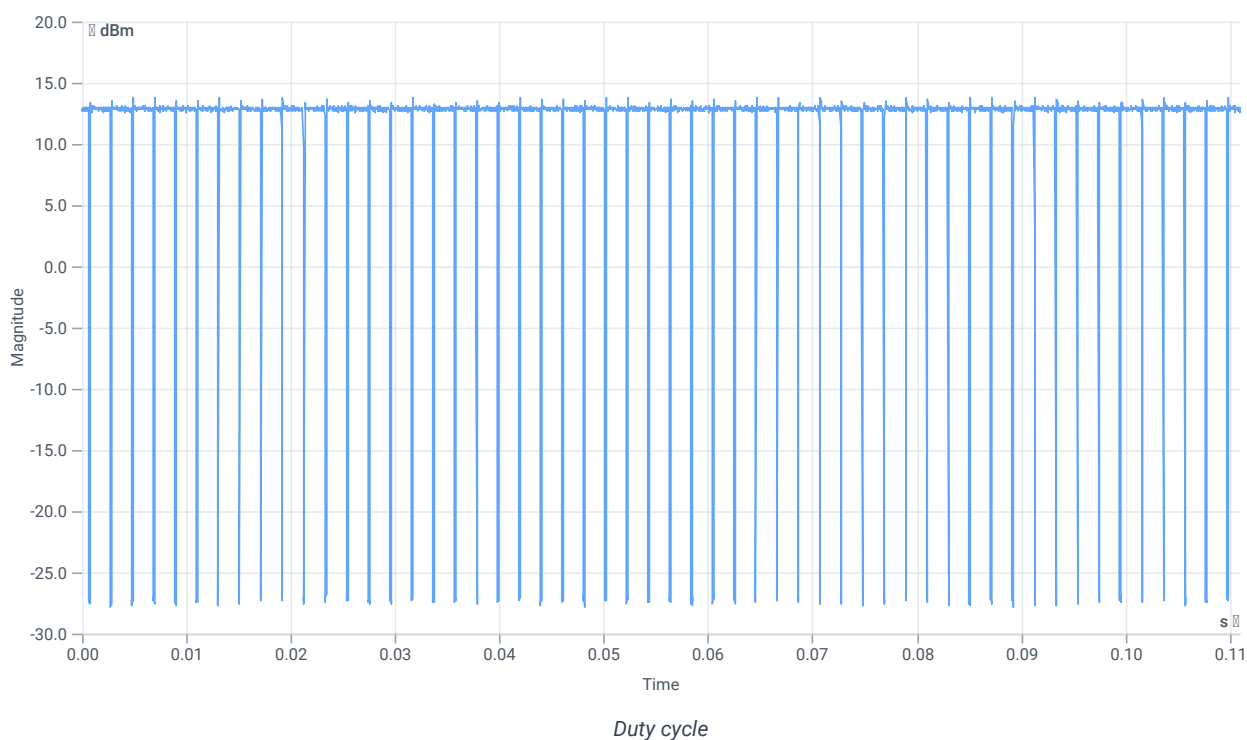
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	12.40	dBm	INFO
Ref. frequency	---	---	5223.000	MHz	INFO

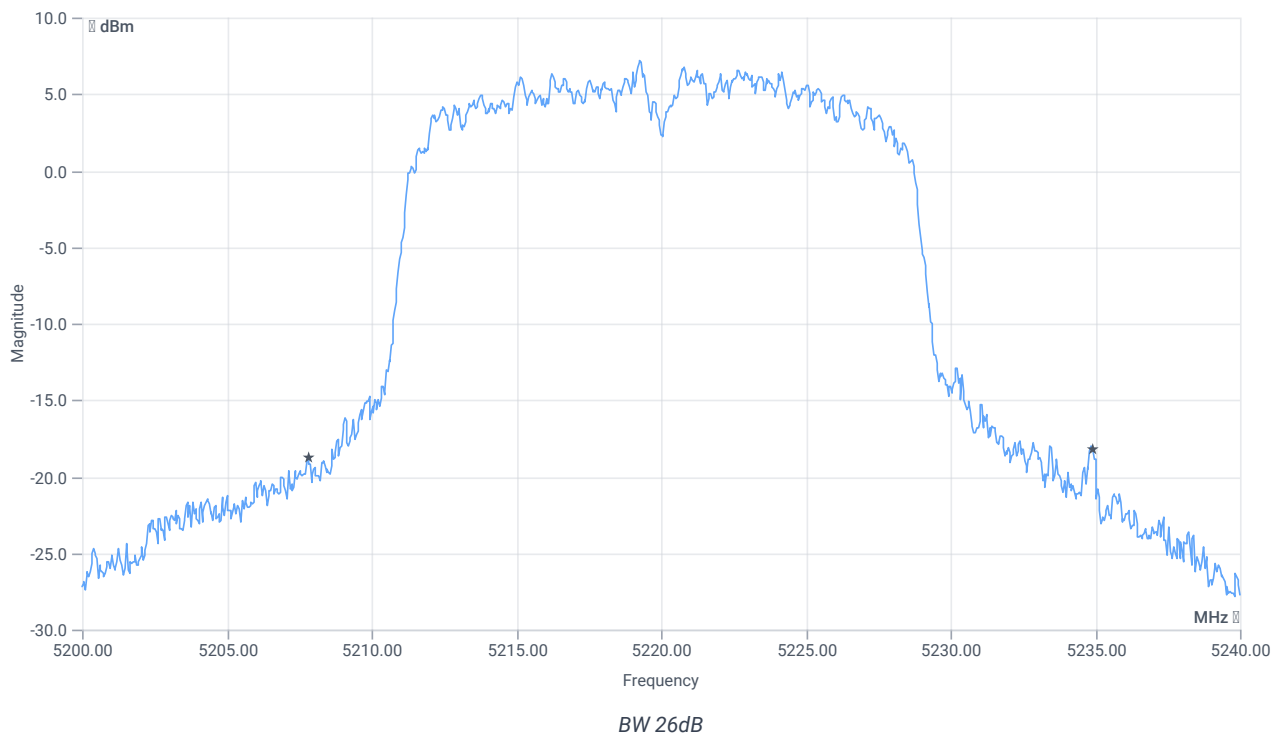
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



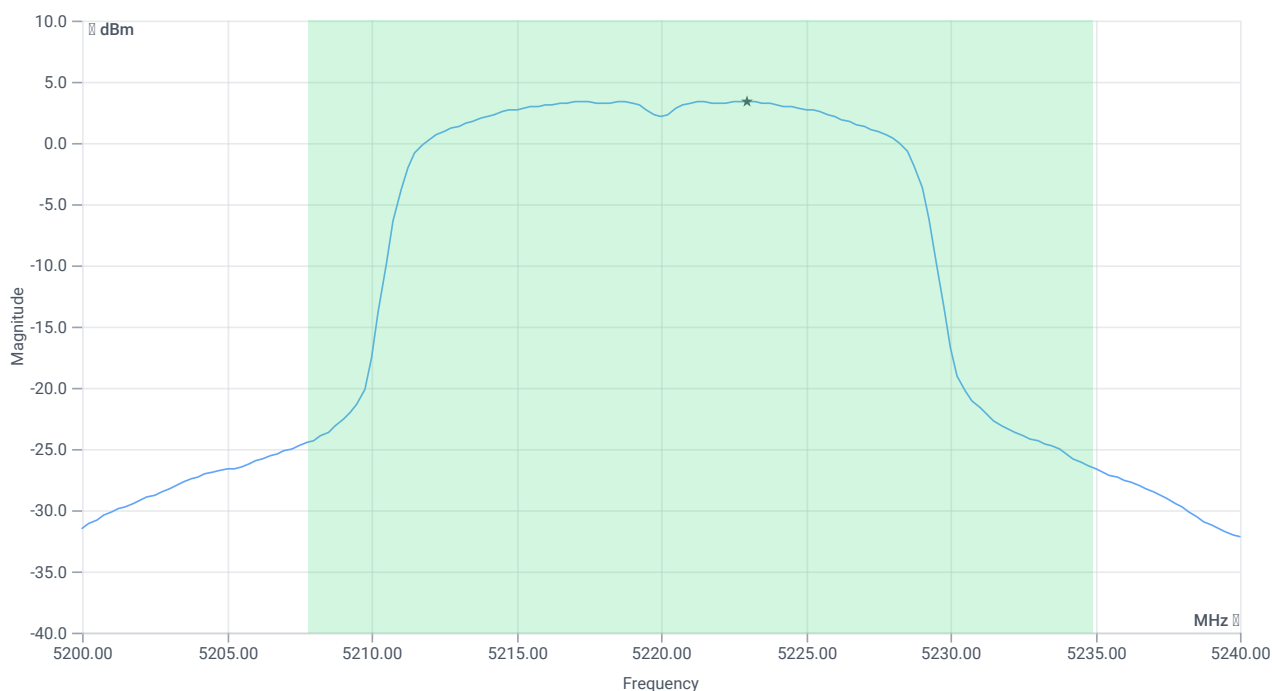
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	27.12	MHz	INFO
T1 26dB	---	---	5207.8000	MHz	INFO
T2 26dB	---	---	5234.9200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	24.40 10.15 30
Start [MHz] Stop [MHz]	5200.000 5240.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 1 161 SWE



RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	14.68	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	15.16	dBm	PASS
LIMIT: 11 dBm + 10 log 27.12					
Max output power DC corrected cond	---	25.33	15.16	dBm	na

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	---	---	3.37	dBm/1MHz	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Power spectral density DC corrected cond	---	11	3.85	dBm/1MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-1

References

TC start	16.07.2025 13:27:15
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5220
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5220 MHz

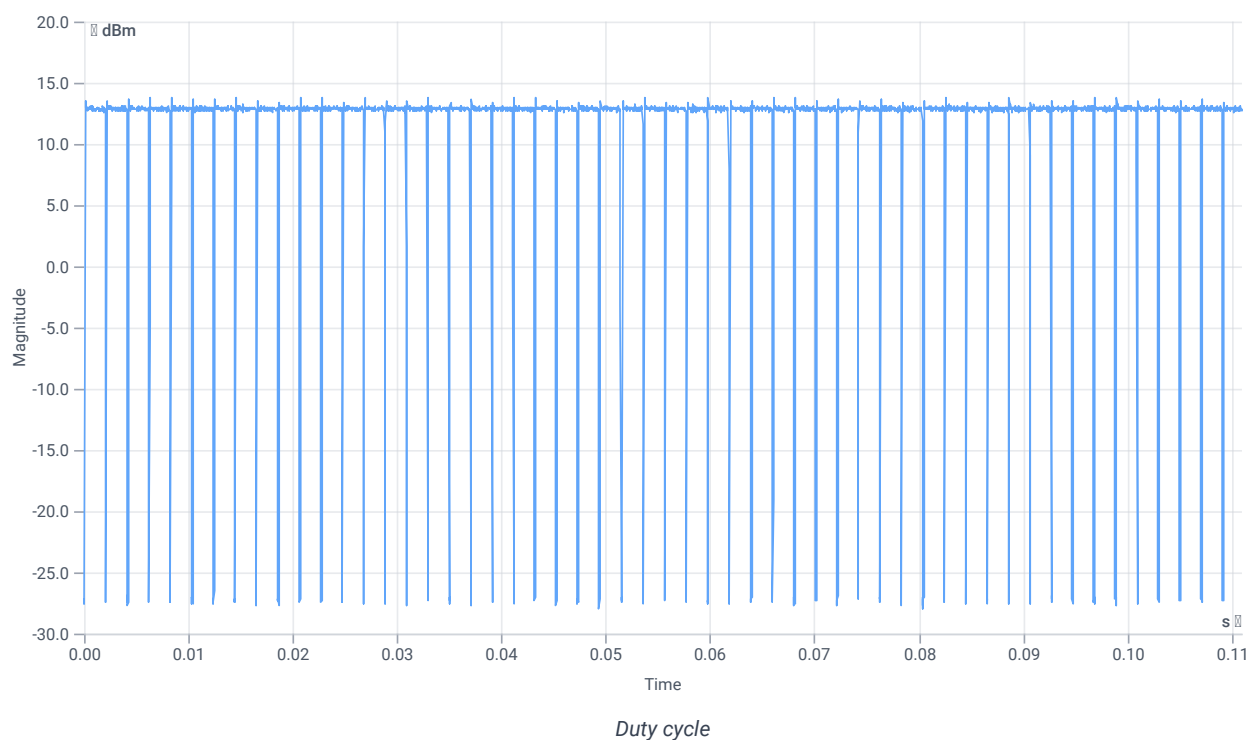
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.64	dBm	INFO
Ref. frequency	---	---	5218.400	MHz	INFO

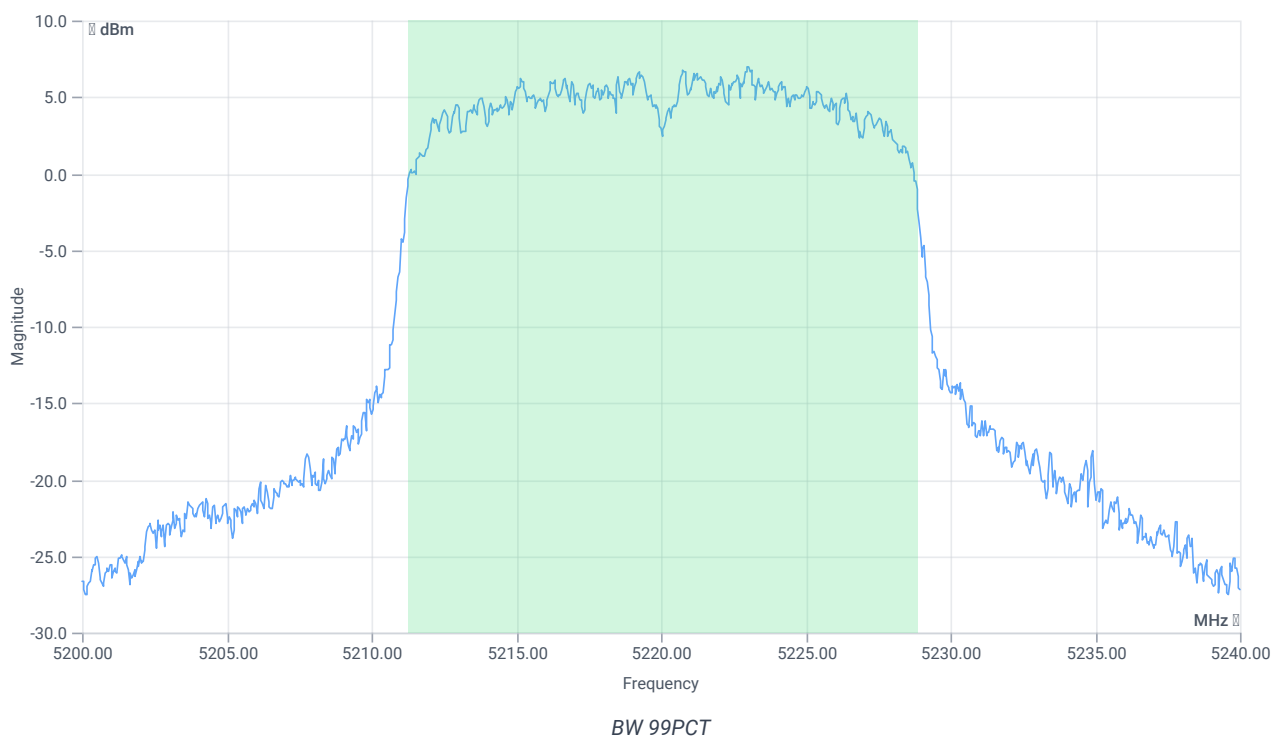
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 52					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	17.622	MHz	INFO
T1 99%	---	---	5211.2488	MHz	INFO
T2 99%	---	---	5228.8711	MHz	INFO

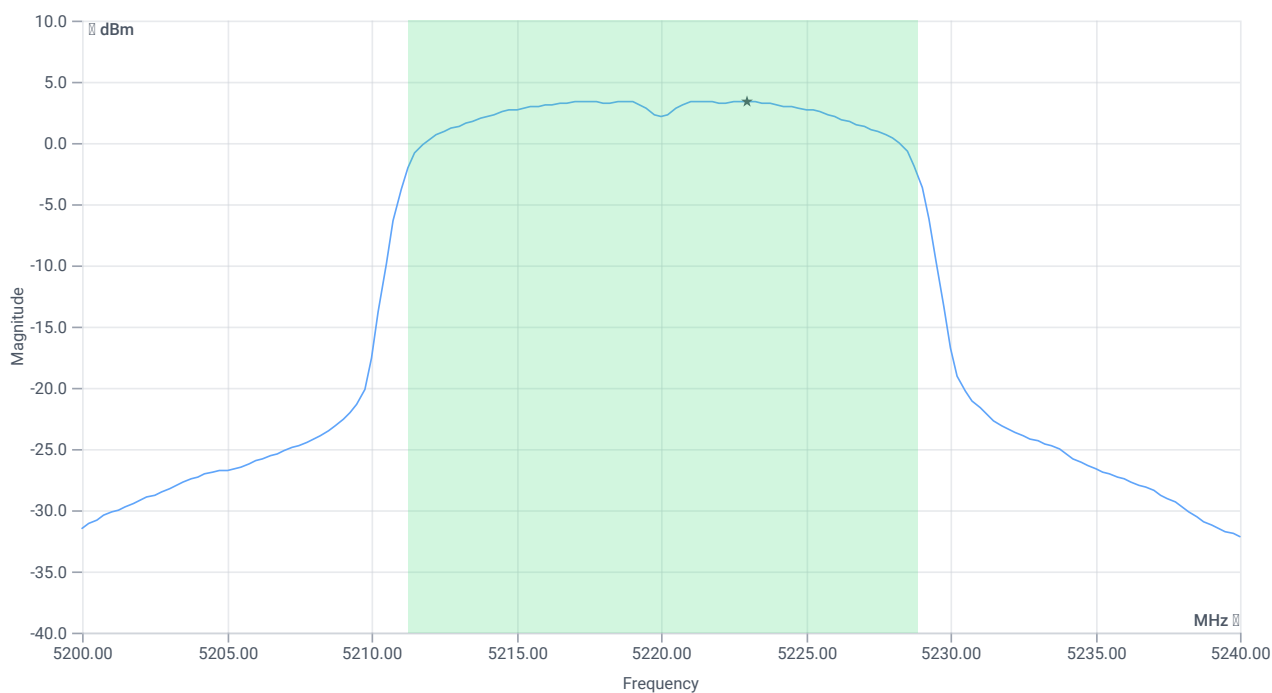
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	2.95 @ 5220 MHz
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READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.64 10.15 30
Start [MHz] Stop [MHz]	5200.000 5240.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	14.62	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Max output power DC corrected cond	---	---	15.1	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	18.05	dBm	PASS
LIMIT: 10 dBm + 10 log 17.622					
Max output power DC corrected eirp	---	22.46	18.05	dBm	PASS
Power spectral density eirp	---		6.32	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	6.800000000000001	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-1

References

TC start	16.07.2025 13:28:55
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

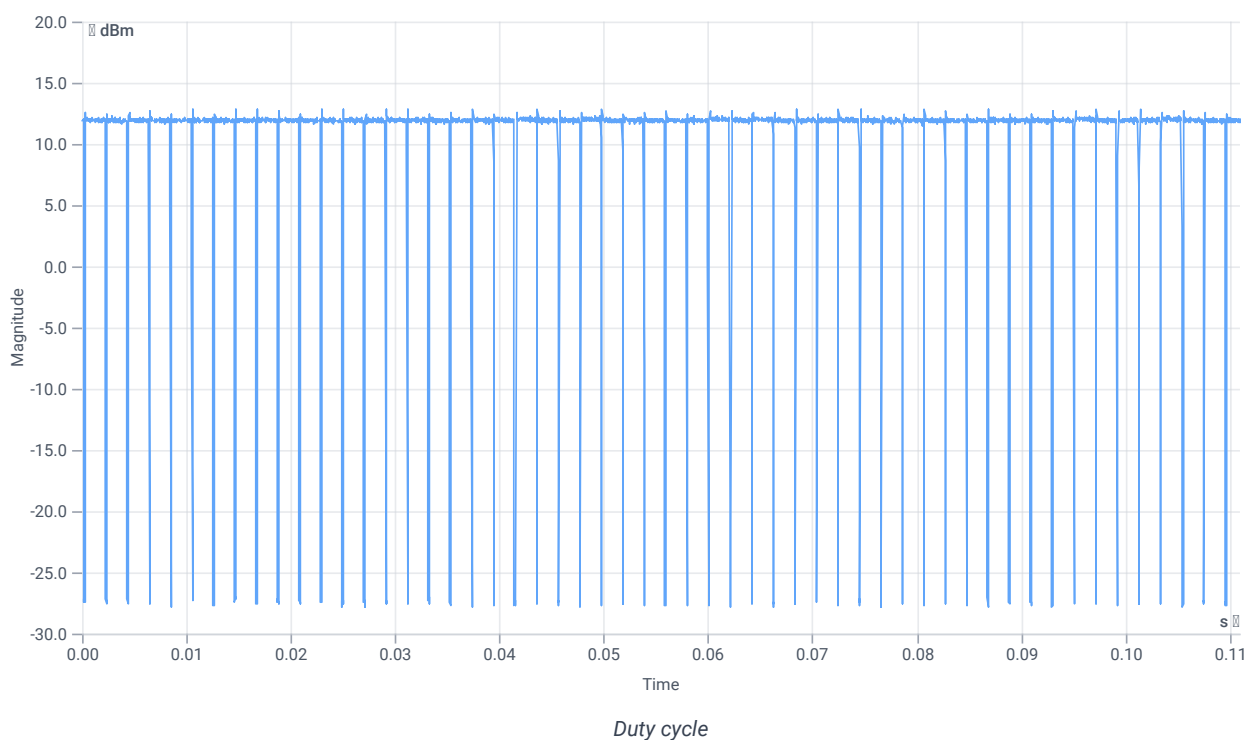
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	10.49	dBm	INFO
Ref. frequency	---	---	5238.600	MHz	INFO

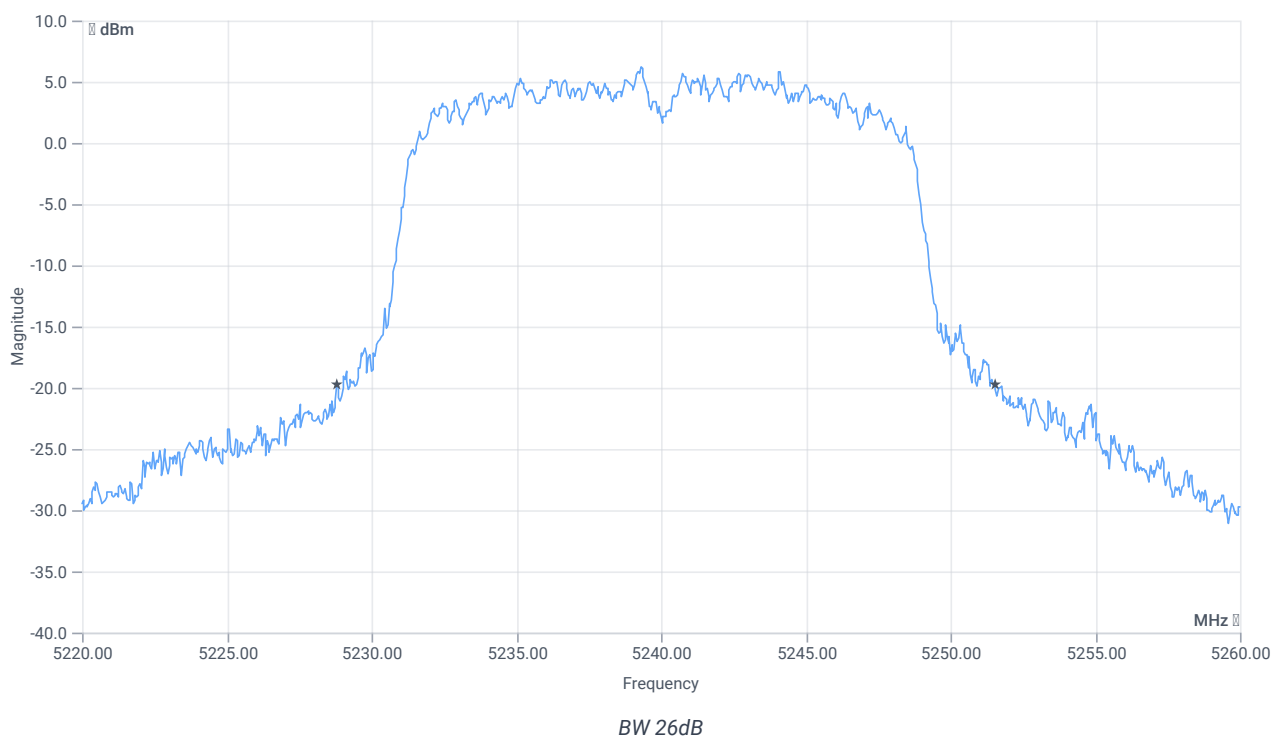
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



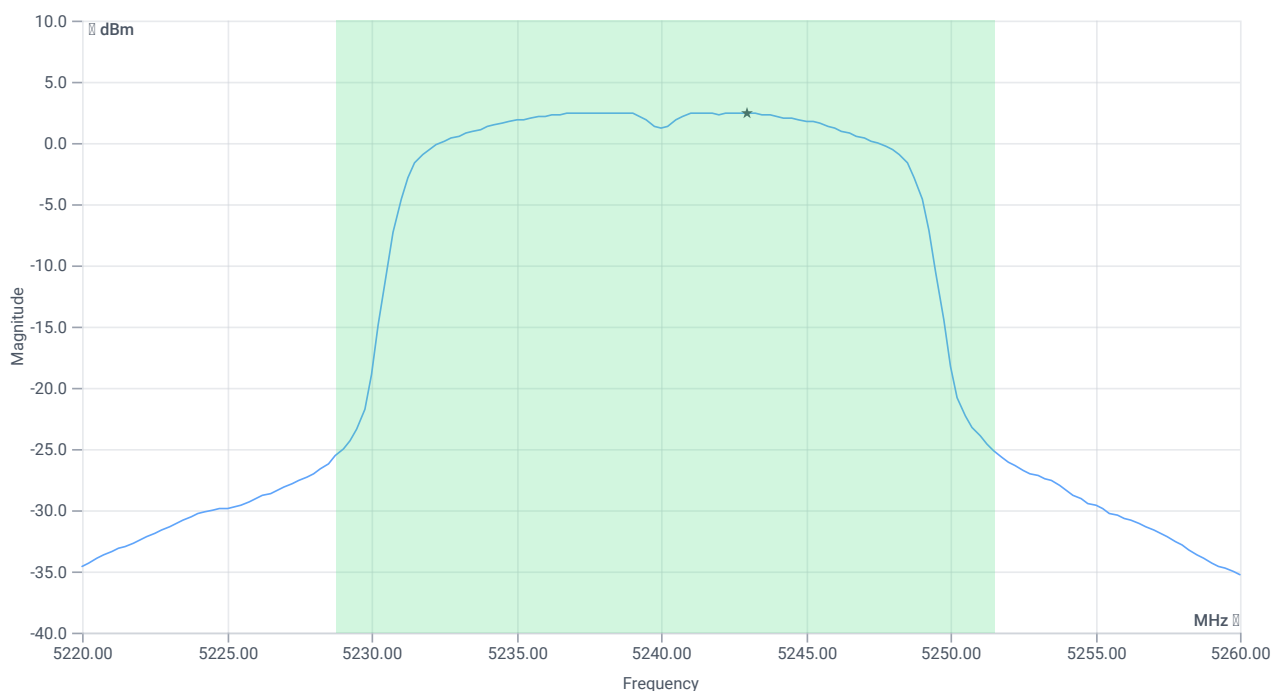
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.72	MHz	INFO
T1 26dB	---	---	5228.8000	MHz	INFO
T2 26dB	---	---	5251.5200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.49 10.07 30
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	13.76	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	14.24	dBm	PASS
LIMIT: 11 dBm + 10 log 22.72					
Max output power DC corrected cond	---	24.56	14.24	dBm	na

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	---	---	2.43	dBm/1MHz	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Power spectral density DC corrected cond	---	11	2.91	dBm/1MHz	PASS

Verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-1

References

TC start	16.07.2025 13:30:29
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.2.3
Standard Version	ISED RSS247 NI
Method	
Description	ISED Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
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-30,1321.3008K30/103170,3.70
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5220
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

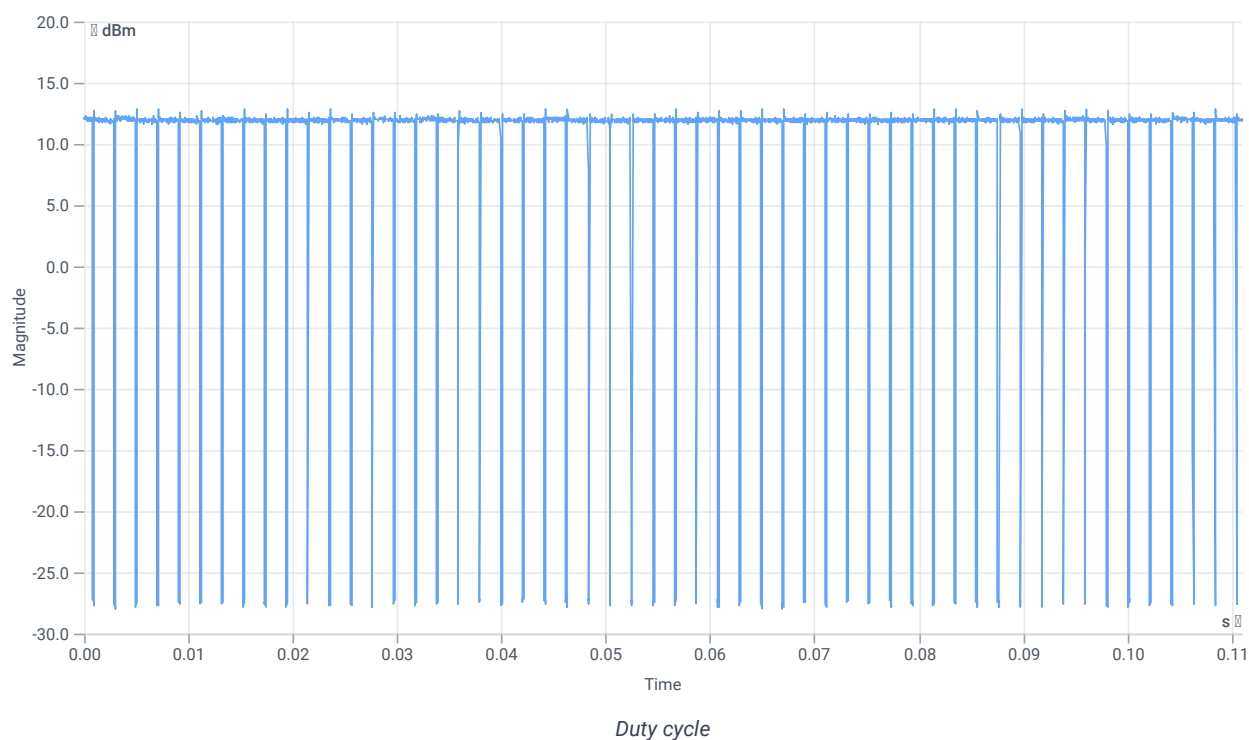
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	11.16	dBm	INFO
Ref. frequency	---	---	5238.800	MHz	INFO

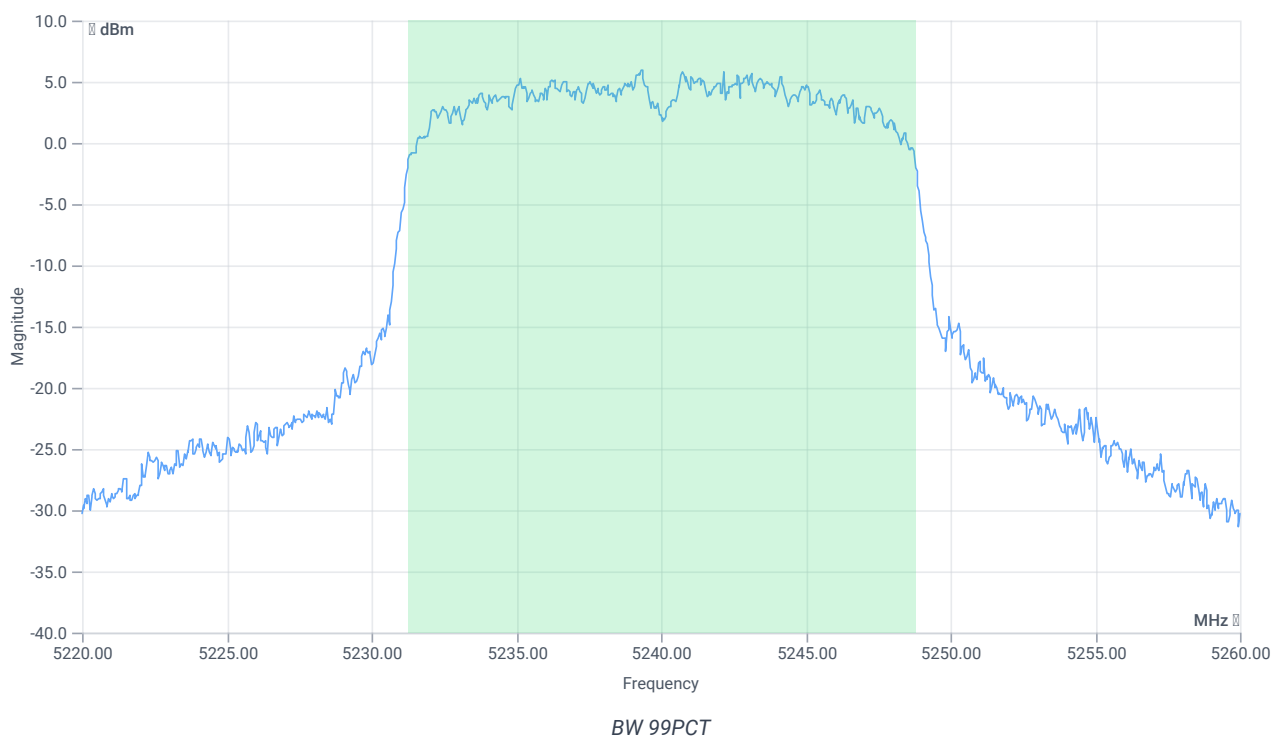
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 53					
Duty cycle (burst Ratio) max	---	---	0.932	---	INFO
Duty cycle max	---	---	0.306	dB	INFO
Duty cycle (burst Ratio) min	---	---	0.895	---	INFO
Duty cycle min	---	---	0.482	dB	INFO
Max TX burst length	---	---	1.915	ms	INFO
Min gap length	---	---	0.139	ms	INFO
Max gap length	---	---	0.222	ms	INFO



Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	17.542	MHz	INFO
T1 99%	---	---	5231.2488	MHz	INFO
T2 99%	---	---	5248.7912	MHz	INFO

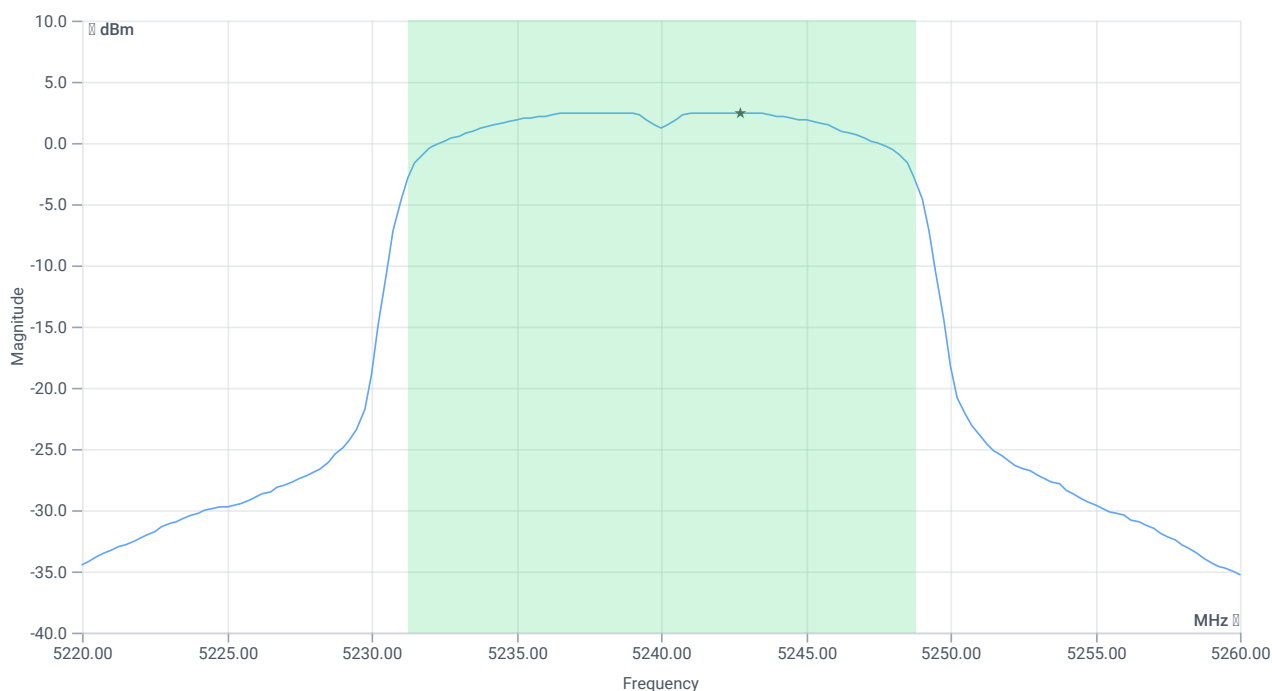
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 2.55 @ 5240 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.16 10.07 30
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	59600 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	---	---	13.73	dBm	INFO
Duty cycle correction	---	---	0.48	dB	INFO
Max output power DC corrected cond	---	---	14.21	dBm	INFO
LIMIT absolute eirp					
Max output power DC corrected eirp	---	23	16.76	dBm	PASS
LIMIT: 10 dBm + 10 log 17.542					
Max output power DC corrected eirp	---	22.44	16.76	dBm	PASS
Power spectral density eirp	---		5.029999999999999	dBm/1MHz	INFO
Power spectral density DC corrected eirp	---	10	5.51	dBm/1MHz	PASS

Verdict

PASS

- END OF DOCUMENT -