FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:14:46
Ambit Temp [°C] | Humidity [rel%]	24.2 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

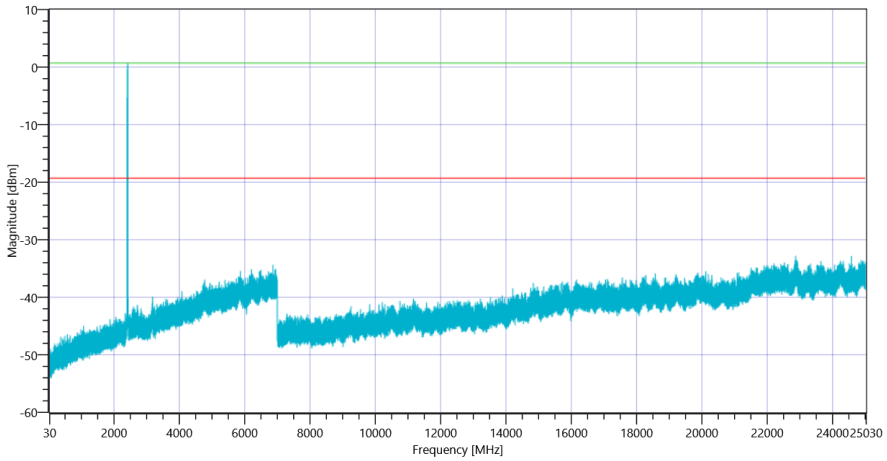
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2412 MHz

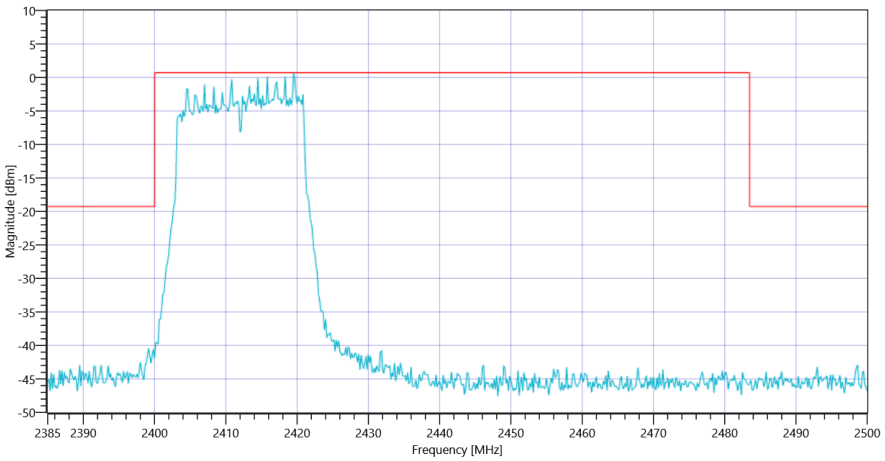
RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	8.19	dBm	INFO
Ref. Frequency	---	---	2416.500	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	8.19 | 0 | 25
Start [MHz] | Stop [MHz]	24530.000 | 25030.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	500 | 8 | 3001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2419.50 MHz	---	---	0.71	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 22872.333 MHz	0	---	13.5	dB	INFO



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode 2412



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode 2412

General verdict	PASS

FCC Part 15.247 Maximum Peak Conducted Output Power Powermeter DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:21:54
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Powermeter Conducted DTS - WLAN 2G4 nHT20-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - PowerMeter

Test Equipment
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI
PM: Keysight Technologies,U2021XA,MY59190010,A.04.06

Test at TX 2412 MHz

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Found Peak cond.	---	---	21.7	dBm	PASS

General verdict	PASS

Message with SA Scan ~

Test References	
TC Start	04.05.2021 08:22:06
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Message with SA Scan nHT20-mode
Add. Information	

Test Parameter	
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	04.05.2021 08:22:07
Message	set WLAN2G4 to nHT20-mode, Frequency [MHz] 2437 ,

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

General verdict	INFO

Common2G4 Peak OP 3MHz/3MHz ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:22:39
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Peak Output Power conducted 3MHz/3MHz WLAN 2G4 nHT20-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

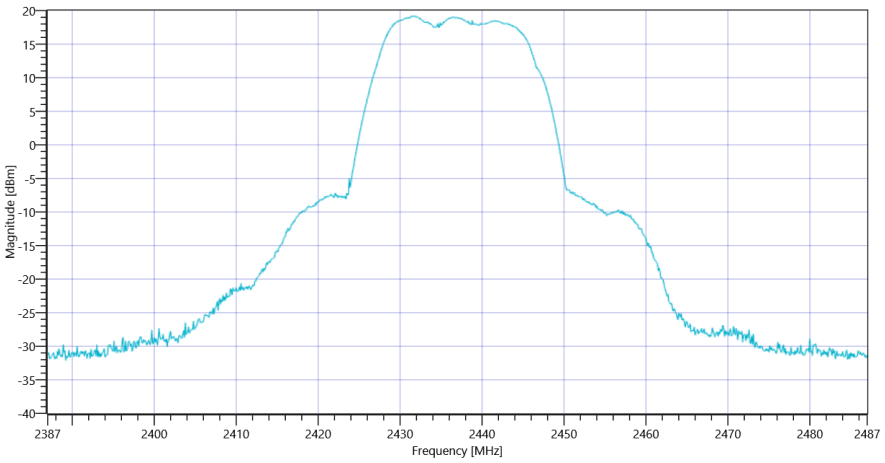
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.04	dBm	INFO
Ref. Frequency	---	---	2430.310	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	24.04 | 17.62 | 25
Start [MHz] | Stop [MHz]	2387.000 | 2487.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 10 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	19.16	dBm	Info
Peak Power	---	---	82.413812	mW	Info
Frequency at Peak	---	---	2431.81	MHz	Info



Common2G4 Peak OP 3MHz-3MHz ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:23:16
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	99
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

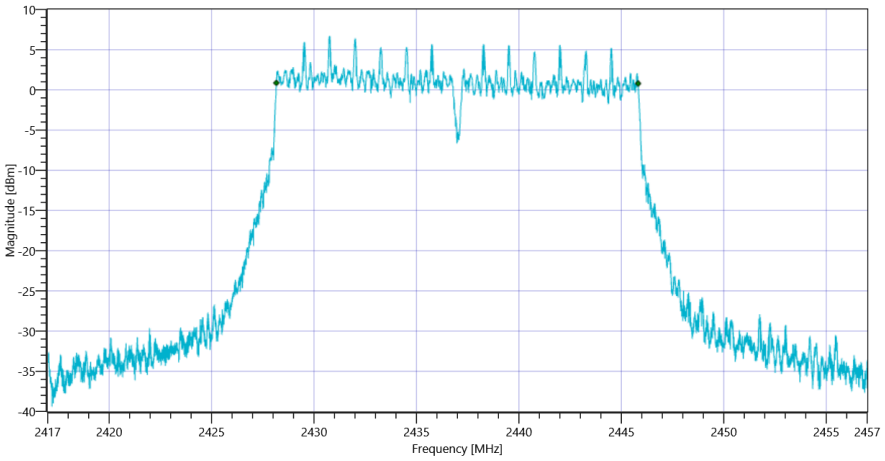
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.16	dBm	INFO
Ref. Frequency	---	---	2431.310	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.16 | 17.62 | 20
Start [MHz] | Stop [MHz]	2417.000 | 2457.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	17660	kHz	PASS



FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:23:56
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

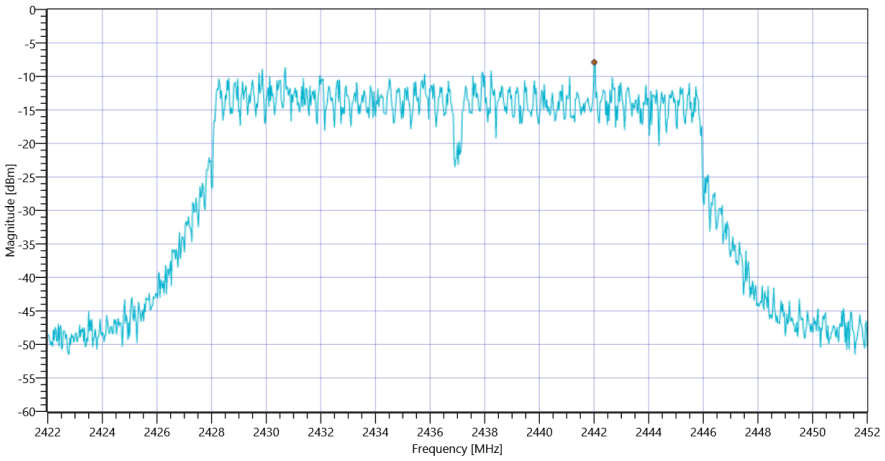
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.78	dBm	INFO
Ref. Frequency	---	---	2431.910	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.78 | 17.62 | 20
Start [MHz] | Stop [MHz]	2422.000 | 2452.000
RBW [MHz] | VBW [MHz]	0.003000 | 0.010000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 20 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-7.87	dBm/3KHz	PASS



FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:24:45
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

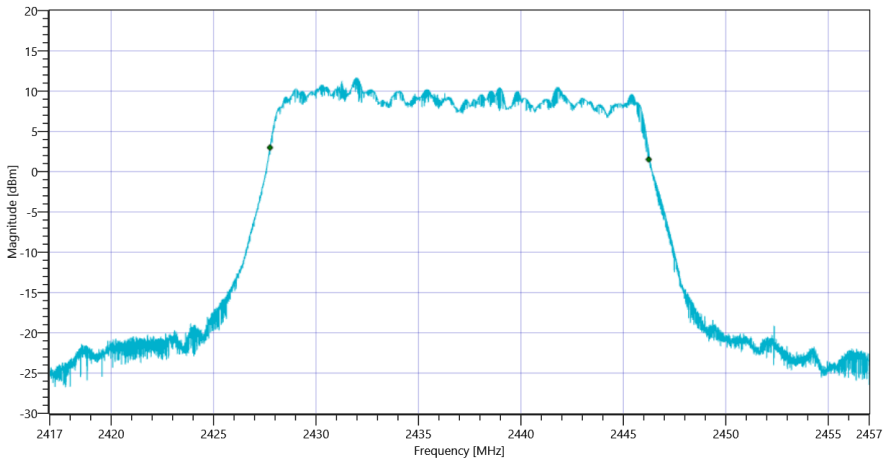
Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.45	dBm	INFO
Ref. Frequency	---	---	2430.510	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.45 | 17.62 | 20
Start [MHz] | Stop [MHz]	2417.000 | 2457.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

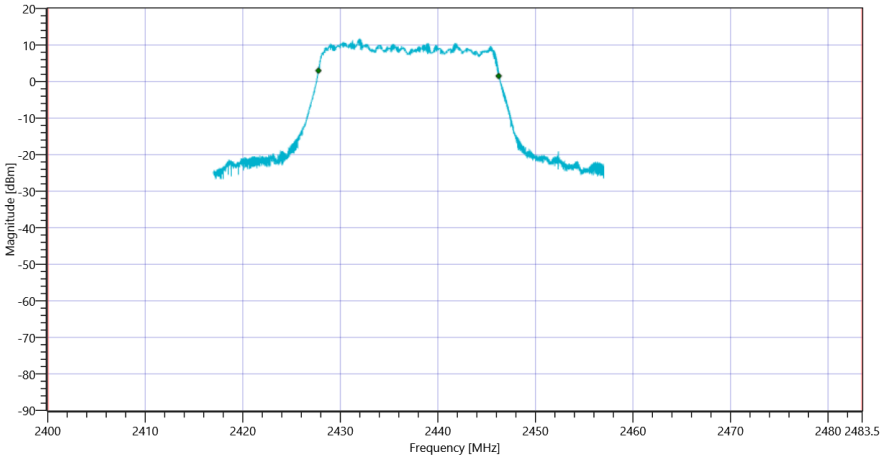
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18482.152	kHz	INFO
T1 99%	2400.000000	---	2427.7529	MHz	PASS
T2 99%	---	2483.500000	2446.2351	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode 99PCT

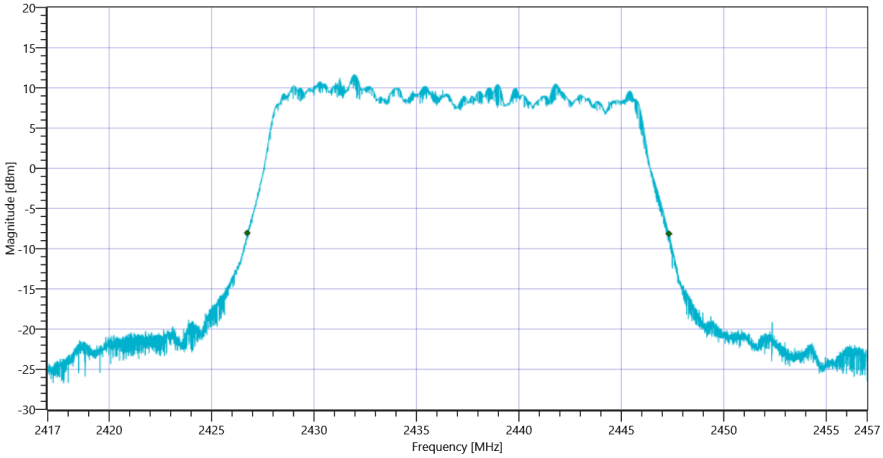
Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode

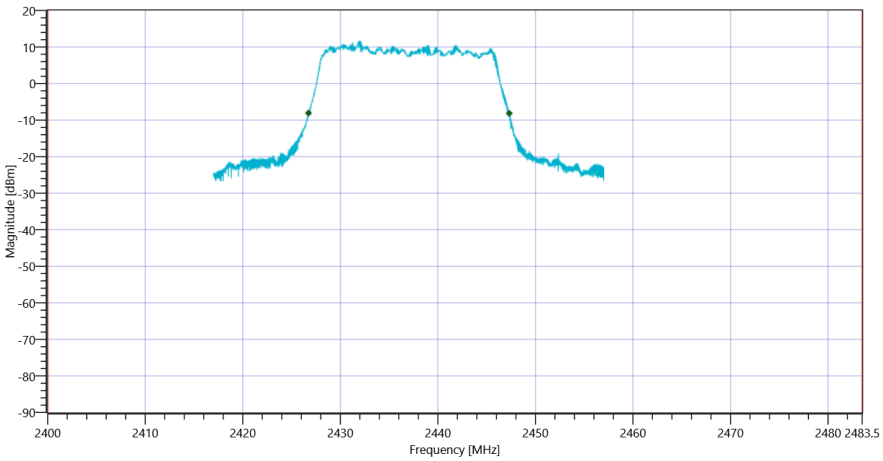
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20580	kHz	INFO
T1 20DB	2400.000000	---	2426.7400	MHz	PASS
T2 20dB	---	2483.500000	2447.3200	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:25:46
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

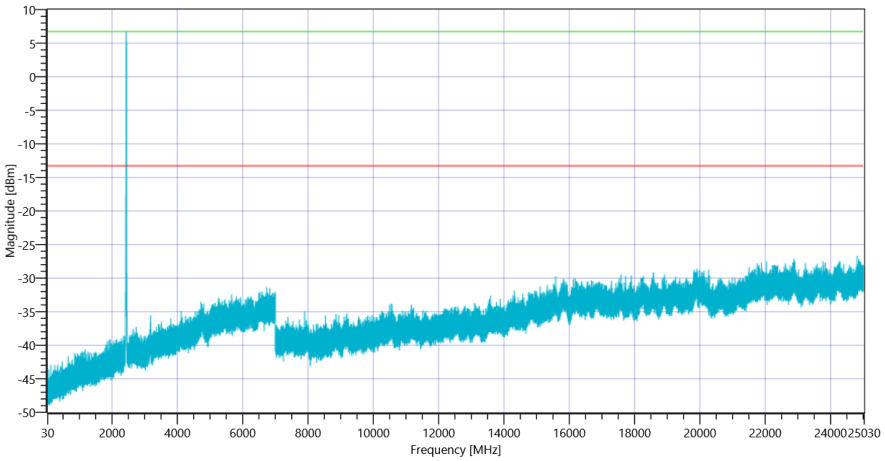
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

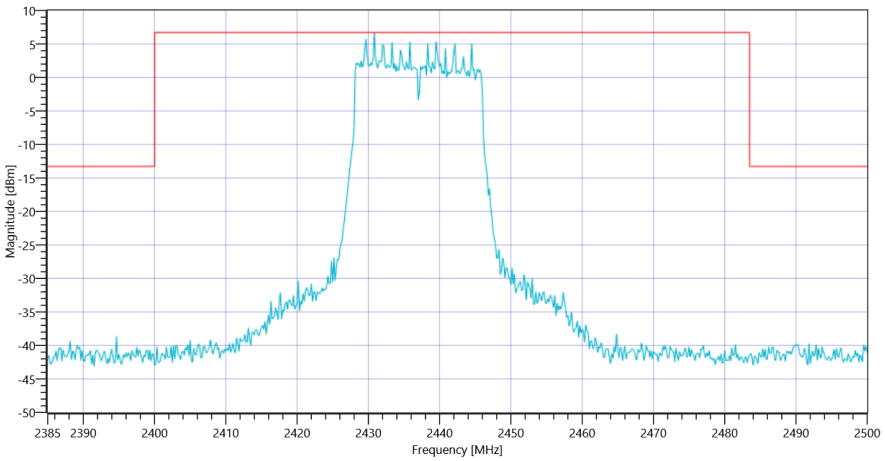
RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.59	dBm	INFO
Ref. Frequency	---	---	2432.100	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.59 | 0 | 30
Start [MHz] | Stop [MHz]	24530.000 | 25030.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	500 | 8 | 3001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2430.83 MHz	---	---	6.71	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24813.833 MHz	0	---	13.42	dB	INFO



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode 2437



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode 2437

General verdict	PASS

FCC Part 15.247 Maximum Peak Conducted Output Power Powermeter DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:32:52
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Powermeter Conducted DTS - WLAN 2G4 nHT20-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - PowerMeter

Test Equipment
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI
PM: Keysight Technologies,U2021XA,MY59190010,A.04.06

Test at TX 2437 MHz

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Found Peak cond.	---	---	24.95	dBm	PASS

General verdict	PASS

Message with SA Scan ~

Test References	
TC Start	04.05.2021 08:33:05
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Message with SA Scan nHT20-mode
Add. Information	

Test Parameter	
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	04.05.2021 08:33:06
Message	set WLAN2G4 to nHT20-mode, Frequency [MHz] 2462

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

General verdict	INFO

Common2G4 Peak OP 3MHz/3MHz ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:44:58
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Peak Output Power conducted 3MHz/3MHz WLAN 2G4 nHT20-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

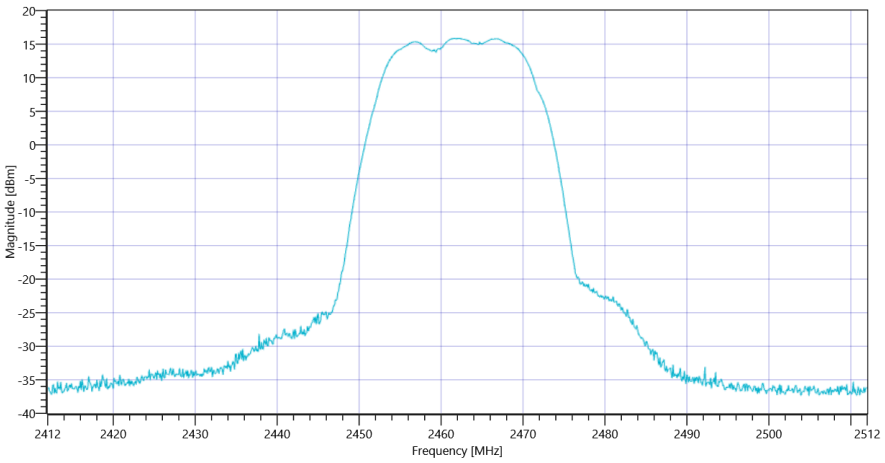
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2462 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.05	dBm	INFO
Ref. Frequency	---	---	2461.100	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.05 | 17.52 | 20
Start [MHz] | Stop [MHz]	2412.000 | 2512.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 10 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	15.85	dBm	Info
Peak Power	---	---	38.459178	mW	Info
Frequency at Peak	---	---	2461.6	MHz	Info



Common2G4 Peak OP 3MHz-3MHz ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:45:34
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	99
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

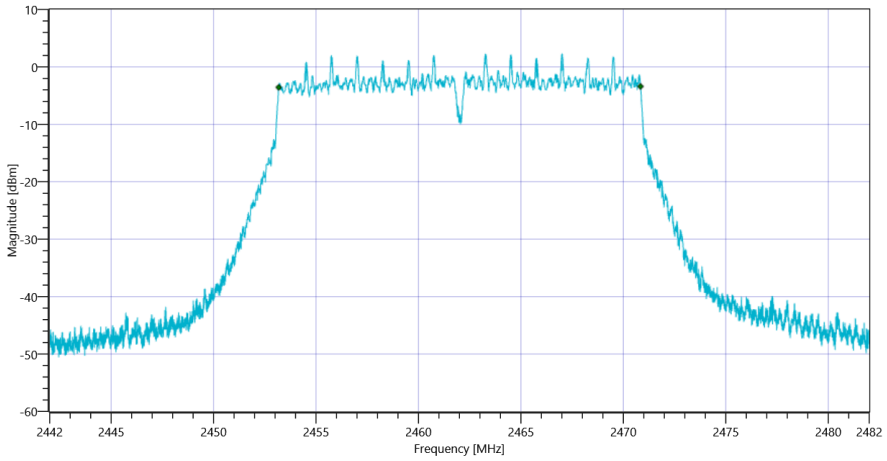
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2462 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.03	dBm	INFO
Ref. Frequency	---	---	2460.500	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.03 | 17.52 | 15
Start [MHz] | Stop [MHz]	2442.000 | 2482.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	17660	kHz	PASS



FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:46:15
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

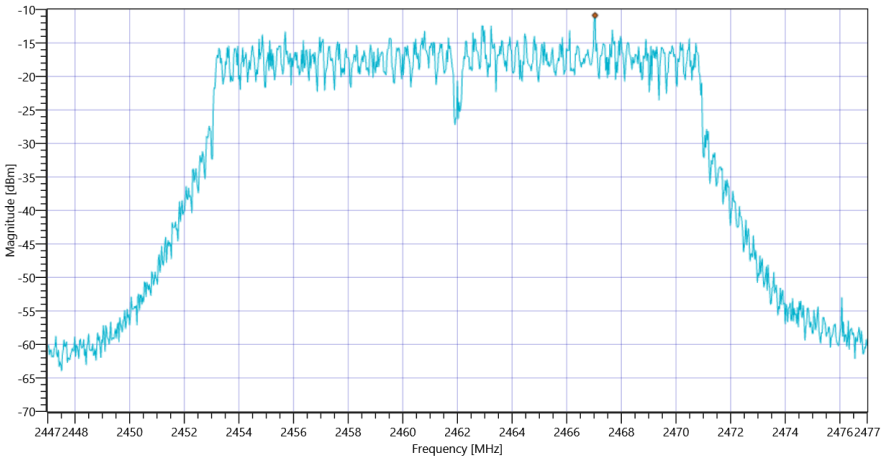
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2462 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	9.58	dBm	INFO
Ref. Frequency	---	---	2456.910	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.58 | 17.52 | 15
Start [MHz] | Stop [MHz]	2447.000 | 2477.000
RBW [MHz] | VBW [MHz]	0.003000 | 0.010000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 20 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-10.88	dBm/3KHz	PASS



FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:47:03
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

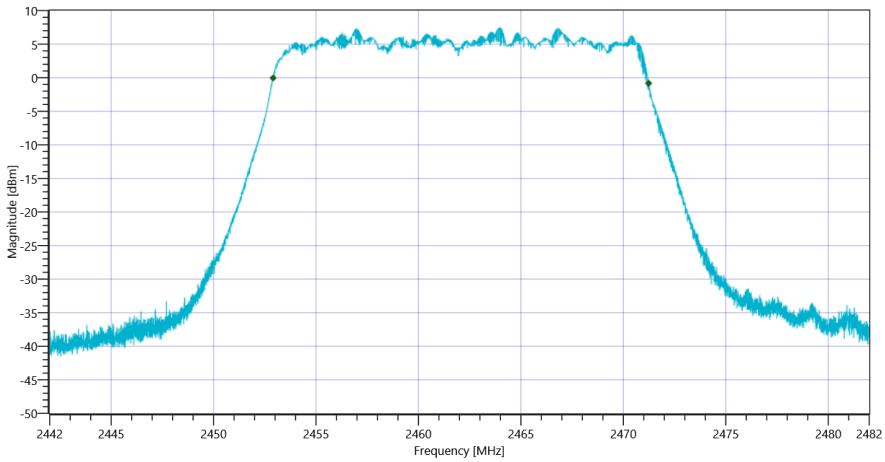
Test at TX 2462 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	9.56	dBm	INFO
Ref. Frequency	---	---	2465.100	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.56 | 17.52 | 15
Start [MHz] | Stop [MHz]	2442.000 | 2482.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

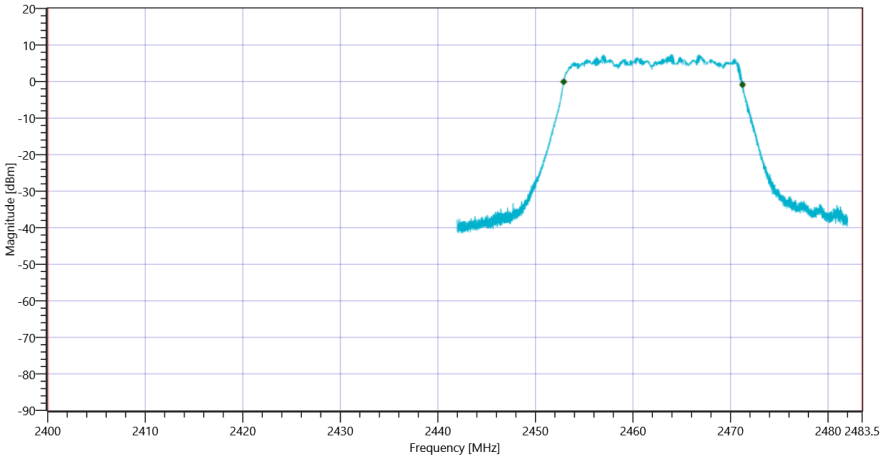
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18330.167	kHz	INFO
T1 99%	2400.000000	---	2452.9009	MHz	PASS
T2 99%	---	2483.500000	2471.2311	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode 99PCT

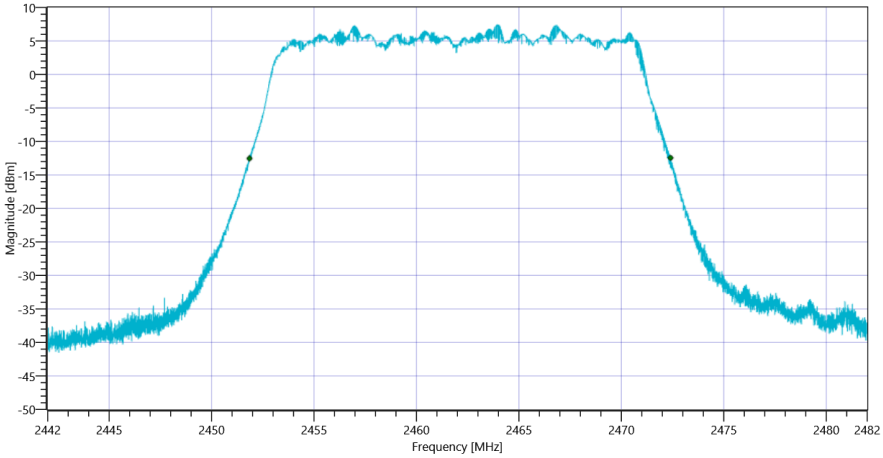
Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode

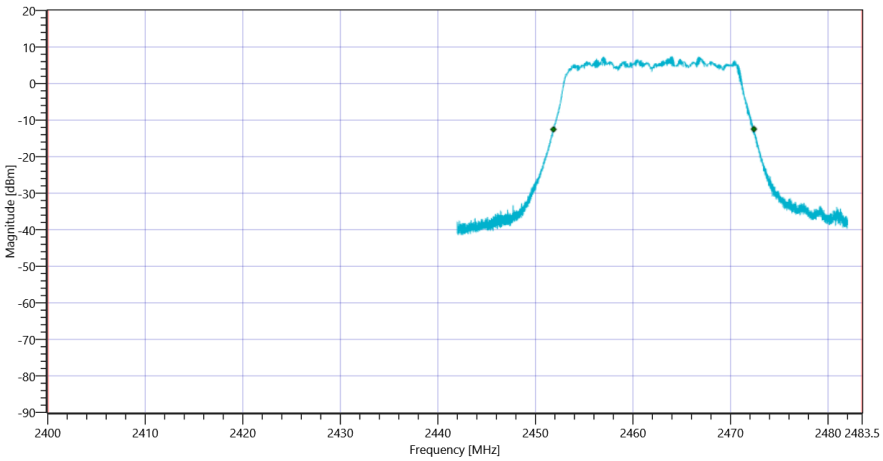
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20552	kHz	INFO
T1 20DB	2400.000000	---	2451.8480	MHz	PASS
T2 20dB	---	2483.500000	2472.4000	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT20-mode

General verdict	PASS

FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:48:03
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS - WLAN 2G4 nHT20_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

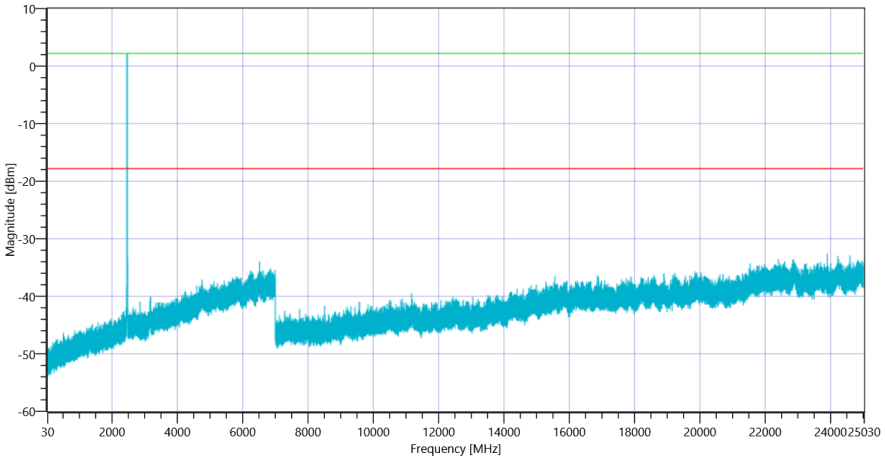
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2462 MHz

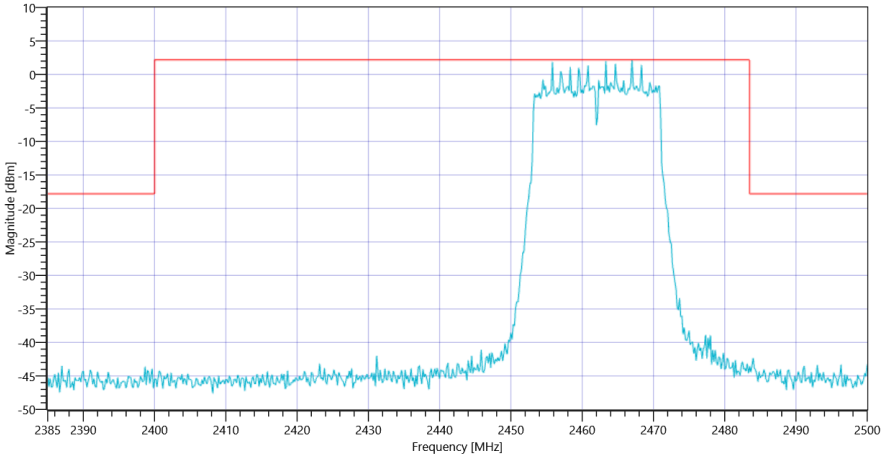
RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	9.84	dBm	INFO
Ref. Frequency	---	---	2463.300	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.84 | 0 | 25
Start [MHz] | Stop [MHz]	24530.000 | 25030.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	500 | 8 | 3001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2467.00 MHz	---	---	2.20	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 30 MHz	0	---	-148.51	dB	INFO



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT20-mode 2462



General verdict	PASS

FCC Part 15.247 Maximum Peak Conducted Output Power Powermeter DTS ~ WLAN2G4 nHT20-mode

Test References	
TC Start	04.05.2021 08:55:10
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Powermeter Conducted DTS - WLAN 2G4 nHT20-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT20-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2412
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2462
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - PowerMeter

Test Equipment
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI
PM: Keysight Technologies,U2021XA,MY59190010,A.04.06

Test at TX 2462 MHz

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Found Peak cond.	---	---	23.12	dBm	PASS

General verdict	PASS

Message with SA Scan ~

Test References	
TC Start	07.05.2021 11:23:26
Ambit Temp [°C] | Humidity [rel%]	25.0 | 25
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Message with SA Scan nHT40-mode
Add. Information	

Test Parameter	
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	07.05.2021 11:23:28
Message	set WLAN2G4 to nHT40-mode, Frequency [MHz] 2422 ,

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

General verdict	INFO

Common2G4 Peak OP 3MHz/3MHz ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:23:37
Ambit Temp [°C] | Humidity [rel%]	25.0 | 25
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Peak Output Power conducted 3MHz/3MHz WLAN 2G4 nHT40-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

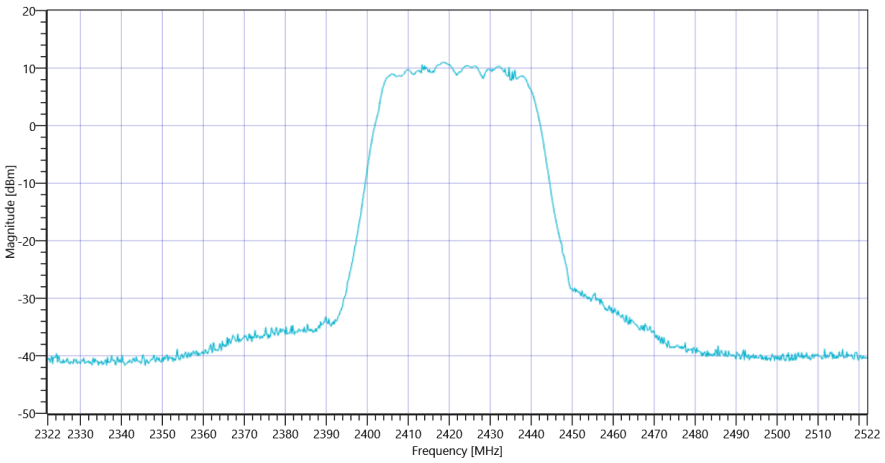
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2422 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.62	dBm	INFO
Ref. Frequency	---	---	2423.900	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.62 | 17.7 | 15
Start [MHz] | Stop [MHz]	2322.000 | 2522.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 10 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	10.98	dBm	Info
Peak Power	---	---	12.531412	mW	Info
Frequency at Peak	---	---	2418.6	MHz	Info



Common2G4 Peak OP 3MHz-3MHz ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:24:15
Ambit Temp [°C] | Humidity [rel%]	25.0 | 25
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	99
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

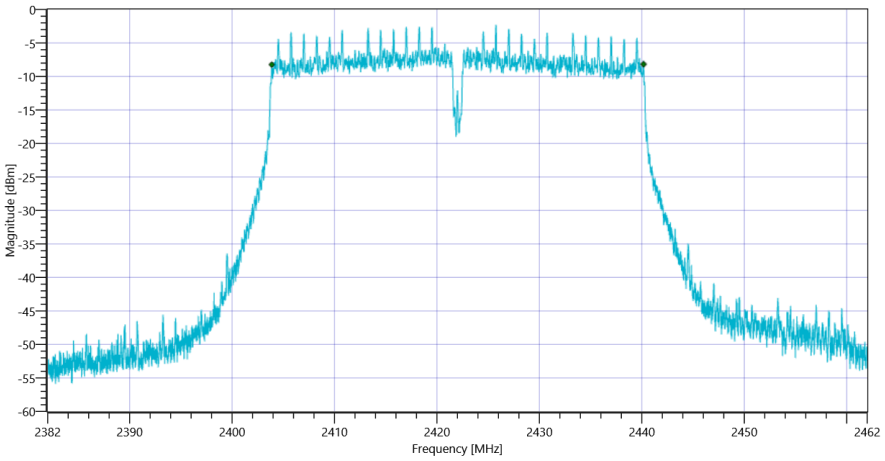
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2422 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.38	dBm	INFO
Ref. Frequency	---	---	2423.800	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.38 | 17.7 | 10
Start [MHz] | Stop [MHz]	2382.000 | 2462.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	36296	kHz	PASS



FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:24:53
Ambit Temp [°C] | Humidity [rel%]	25.0 | 25
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

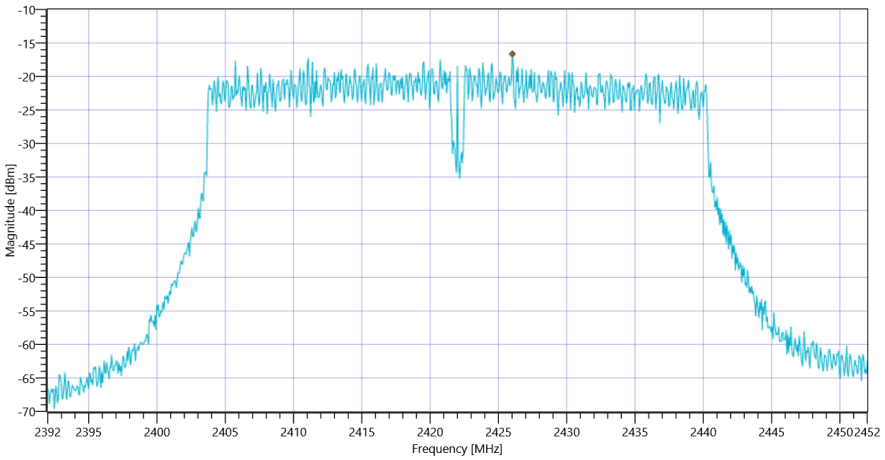
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2422 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.21	dBm	INFO
Ref. Frequency	---	---	2423.700	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.21 | 17.7 | 10
Start [MHz] | Stop [MHz]	2392.000 | 2452.000
RBW [MHz] | VBW [MHz]	0.003000 | 0.010000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 20 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-16.63	dBm/3KHz	PASS



FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:25:44
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

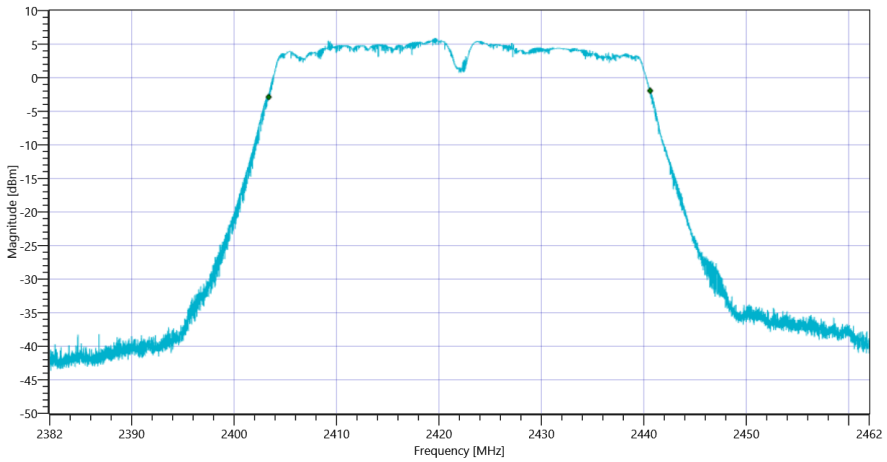
Test at TX 2422 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.31	dBm	INFO
Ref. Frequency	---	---	2418.900	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.31 | 17.7 | 10
Start [MHz] | Stop [MHz]	2382.000 | 2462.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

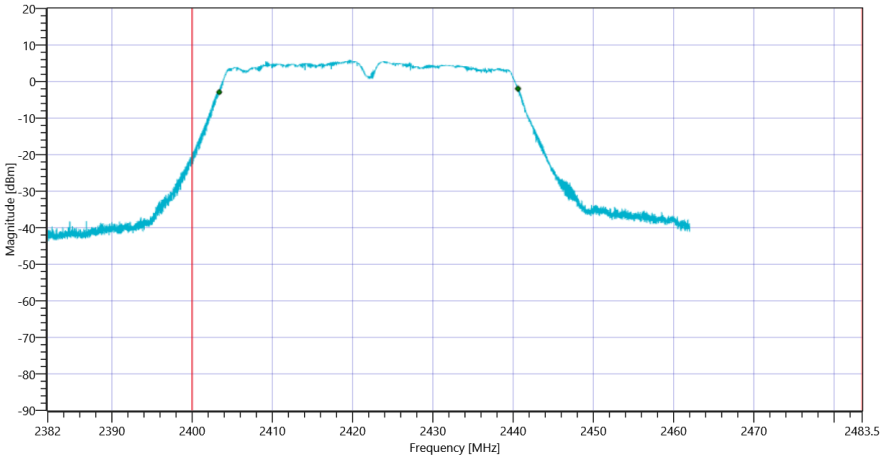
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	37236.276	kHz	INFO
T1 99%	2400.000000	---	2403.3779	MHz	PASS
T2 99%	---	2483.500000	2440.6141	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode 99PCT

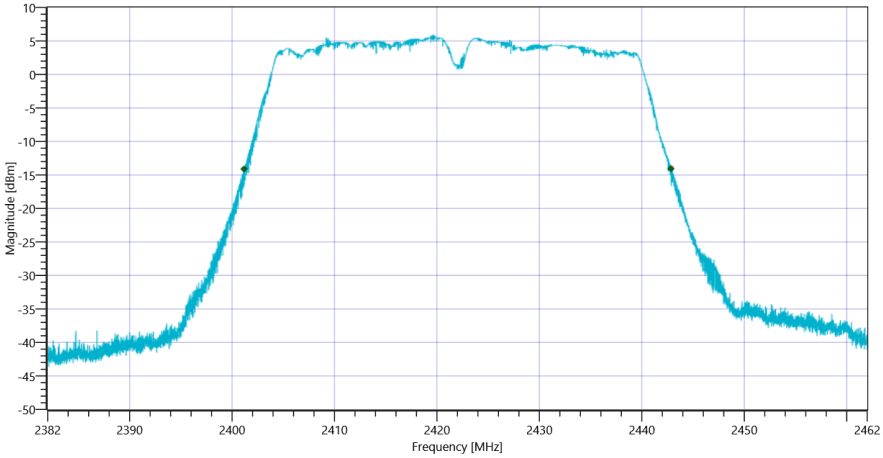
Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

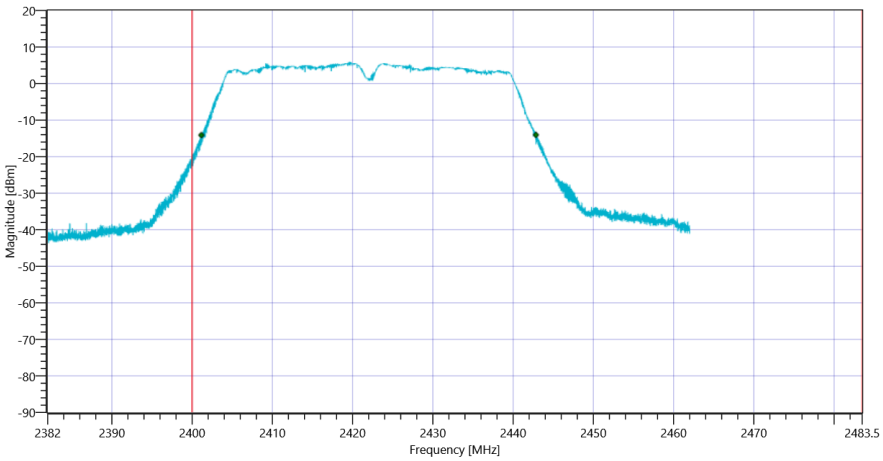
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	41696	kHz	INFO
T1 20DB	2400.000000	---	2401.1520	MHz	PASS
T2 20dB	---	2483.500000	2442.8480	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:26:45
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

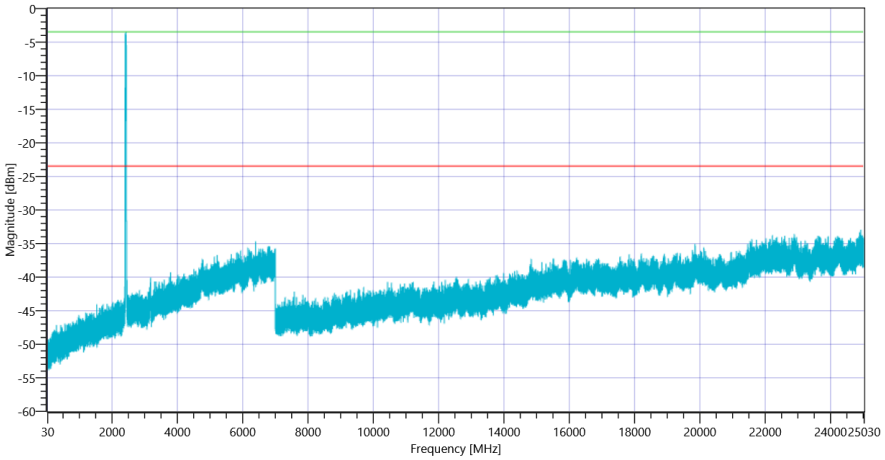
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2422 MHz

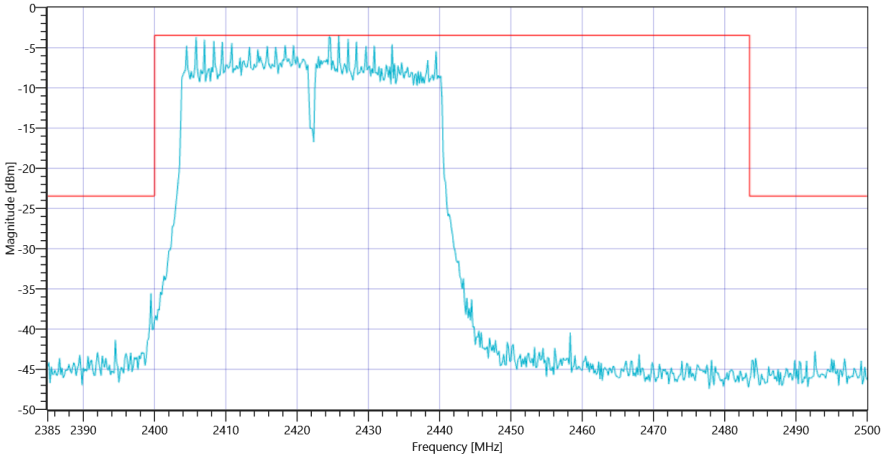
RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.25	dBm	INFO
Ref. Frequency	---	---	2418.100	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	5.25 | 0 | 25
Start [MHz] | Stop [MHz]	24530.000 | 25030.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	500 | 8 | 3001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2425.83 MHz	---	---	-3.47	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24932 MHz	0	---	9.47	dB	INFO



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT40-mode 2422



General verdict	PASS

FCC Part 15.247 Maximum Peak Conducted Output Power Powermeter DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:33:53
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Powermeter Conducted DTS - WLAN 2G4 nHT40-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - PowerMeter

Test Equipment
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI
PM: Keysight Technologies,U2021XA,MY59190010,A.04.06

Test at TX 2422 MHz

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Found Peak cond.	---	---	21.09	dBm	PASS

General verdict	PASS

Message with SA Scan ~

Test References	
TC Start	04.05.2021 09:07:38
Ambit Temp [°C] | Humidity [rel%]	24.3 | 23
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Message with SA Scan nHT40-mode
Add. Information	

Test Parameter	
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	04.05.2021 09:07:39
Message	set WLAN2G4 to nHT40-mode, Frequency [MHz] 2437 ,

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

General verdict	INFO

Common2G4 Peak OP 3MHz/3MHz ~ WLAN2G4 nHT40-mode

Test References	
TC Start	04.05.2021 09:10:58
Ambit Temp [°C] | Humidity [rel%]	24.4 | 23
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Peak Output Power conducted 3MHz/3MHz WLAN 2G4 nHT40-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

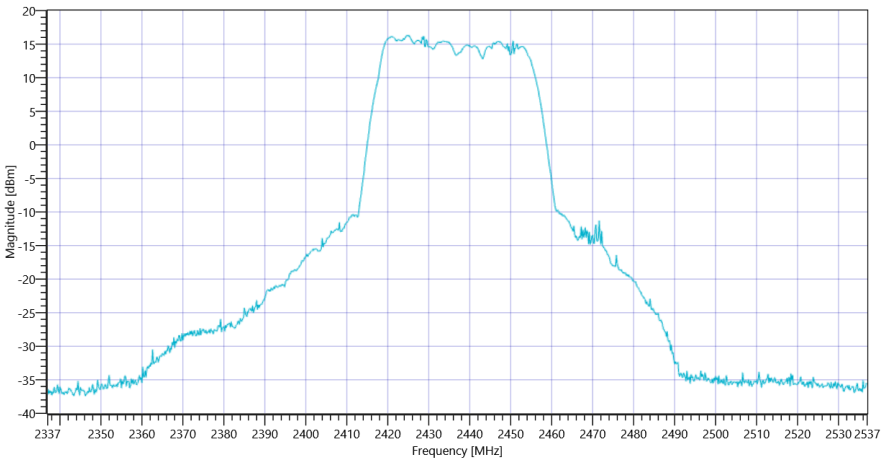
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.92	dBm	INFO
Ref. Frequency	---	---	2425.910	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.92 | 17.62 | 20
Start [MHz] | Stop [MHz]	2337.000 | 2537.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 10 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	16.28	dBm	Info
Peak Power	---	---	42.461956	mW	Info
Frequency at Peak	---	---	2424.81	MHz	Info



Common2G4 Peak OP 3MHz-3MHz ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	04.05.2021 09:11:34
Ambit Temp [°C] | Humidity [rel%]	24.4 | 23
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	99
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

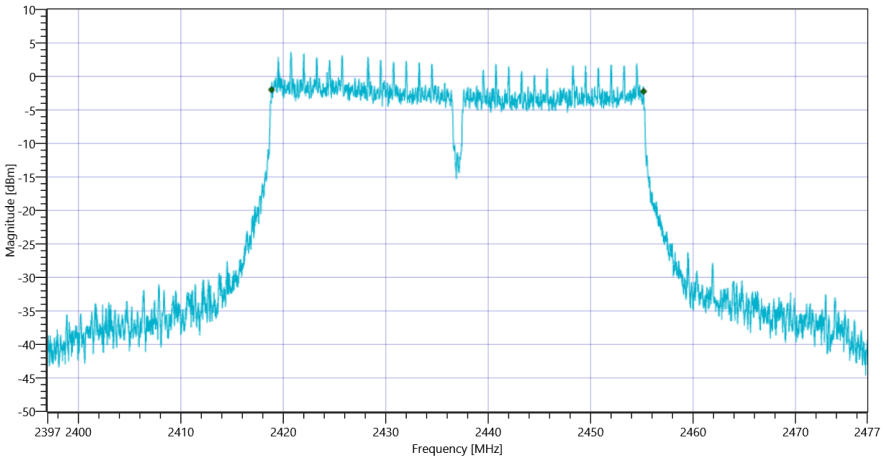
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.85	dBm	INFO
Ref. Frequency	---	---	2426.010	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.85 | 17.62 | 15
Start [MHz] | Stop [MHz]	2397.000 | 2477.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	36320	kHz	PASS



FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	04.05.2021 09:12:11
Ambit Temp [°C] | Humidity [rel%]	24.3 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

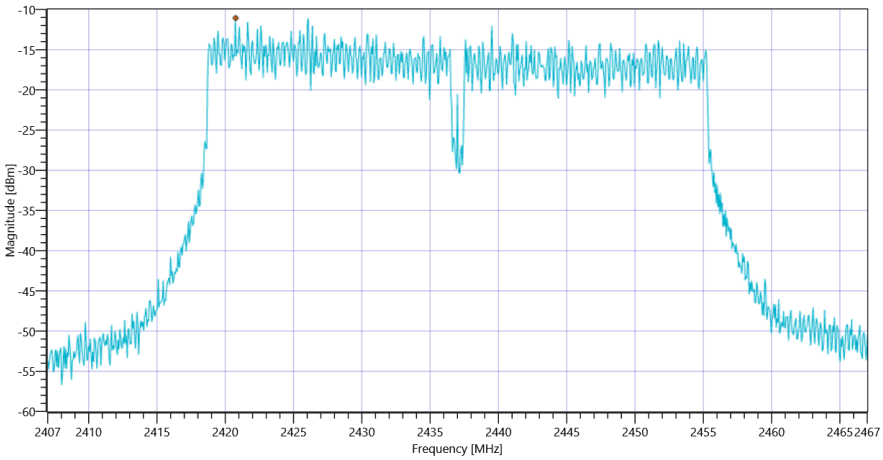
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.03	dBm	INFO
Ref. Frequency	---	---	2420.420	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.03 | 17.62 | 15
Start [MHz] | Stop [MHz]	2407.000 | 2467.000
RBW [MHz] | VBW [MHz]	0.003000 | 0.010000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 20 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-11.06	dBm/3KHz	PASS



FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

Test References	
TC Start	04.05.2021 09:13:00
Ambit Temp [°C] | Humidity [rel%]	24.3 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

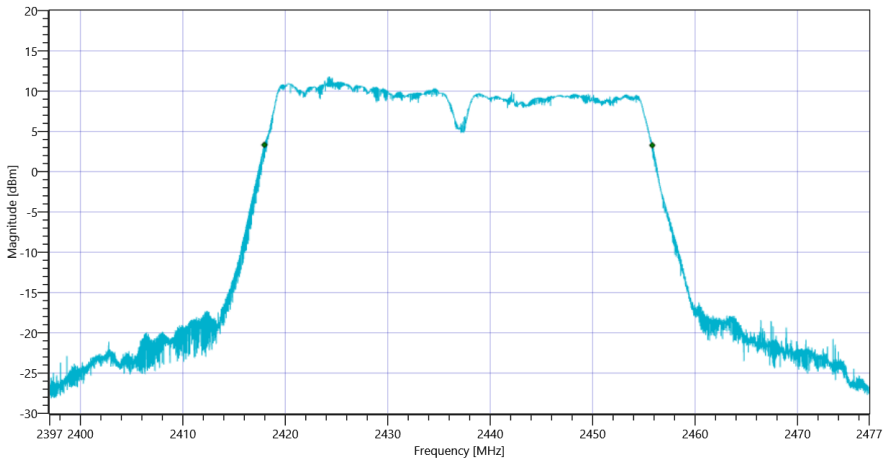
Test at TX 2437 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.71	dBm	INFO
Ref. Frequency	---	---	2427.310	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.71 | 17.62 | 15
Start [MHz] | Stop [MHz]	2397.000 | 2477.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

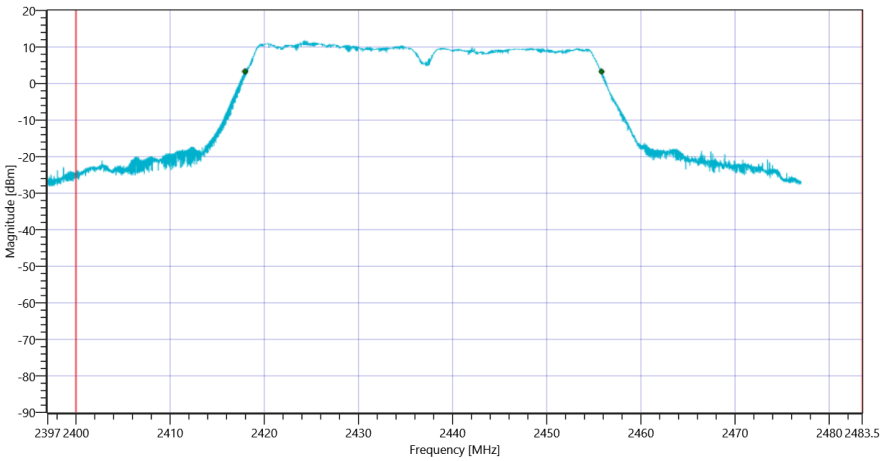
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	37860.214	kHz	INFO
T1 99%	2400.000000	---	2417.9619	MHz	PASS
T2 99%	---	2483.500000	2455.8221	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode 99PCT

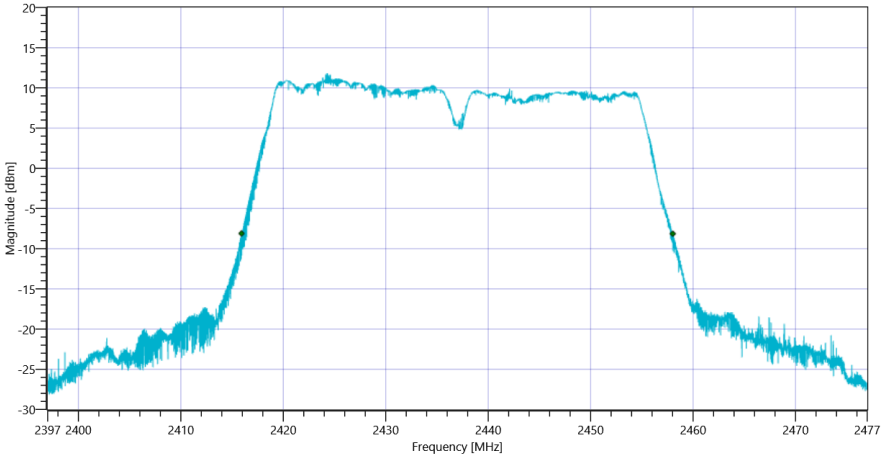
Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

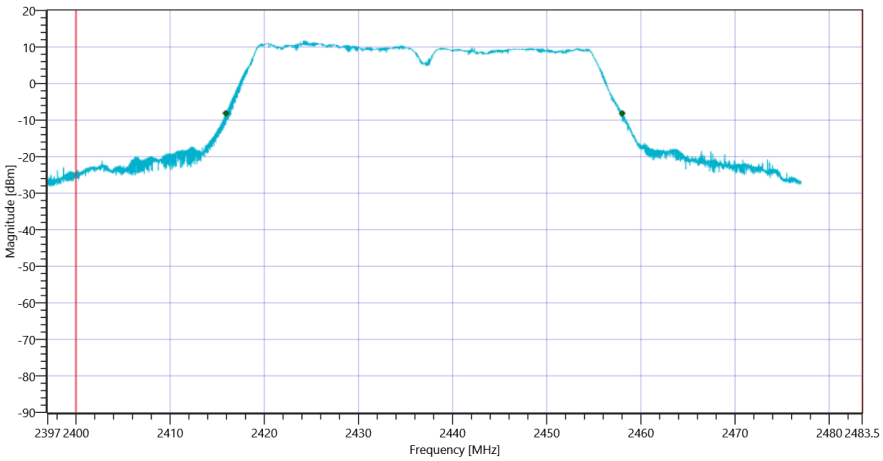
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	42096	kHz	INFO
T1 20DB	2400.000000	---	2415.9200	MHz	PASS
T2 20dB	---	2483.500000	2458.0160	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT40-mode

Test References	
TC Start	04.05.2021 09:13:58
Ambit Temp [°C] | Humidity [rel%]	24.4 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

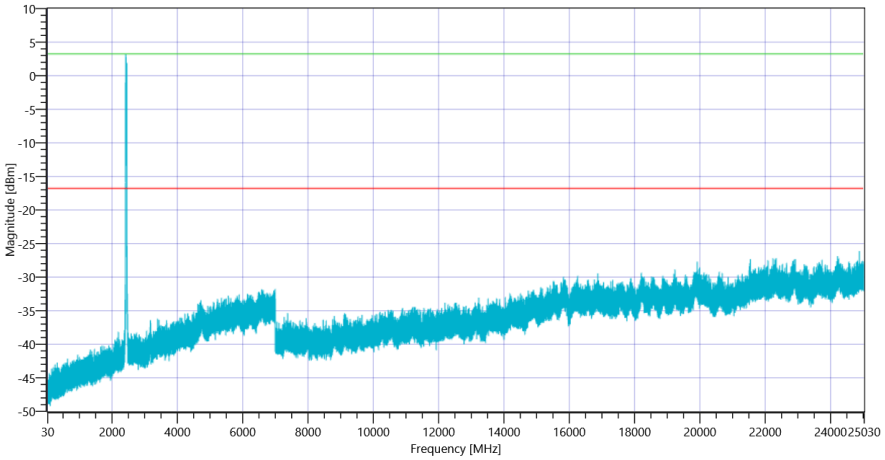
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2437 MHz

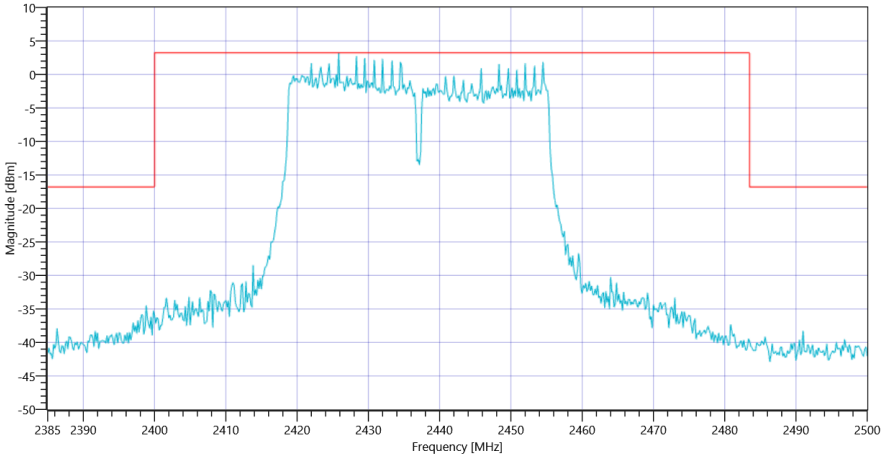
RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.46	dBm	INFO
Ref. Frequency	---	---	2423.910	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.46 | 0 | 30
Start [MHz] | Stop [MHz]	24530.000 | 25030.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	500 | 8 | 3001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2425.83 MHz	---	---	3.23	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24879.5 MHz	0	---	9.37	dB	INFO



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT40-mode 2437



General verdict	PASS

FCC Part 15.247 Maximum Peak Conducted Output Power Powermeter DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	04.05.2021 09:21:02
Ambit Temp [°C] | Humidity [rel%]	24.4 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Powermeter Conducted DTS - WLAN 2G4 nHT40-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	True | Freq [MHz] 2437
Frequency high to test	False | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - PowerMeter

Test Equipment
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI
PM: Keysight Technologies,U2021XA,MY59190010,A.04.06

Test at TX 2437 MHz

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Found Peak cond.	---	---	24.95	dBm	PASS

General verdict	PASS

Message with SA Scan ~

Test References	
TC Start	07.05.2021 11:34:06
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Message with SA Scan nHT40-mode
Add. Information	

Test Parameter	
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	07.05.2021 11:34:07
Message	set WLAN2G4 to nHT40-mode, Frequency [MHz] 2452

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

General verdict	INFO

Common2G4 Peak OP 3MHz/3MHz ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:34:31
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Peak Output Power conducted 3MHz/3MHz WLAN 2G4 nHT40-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

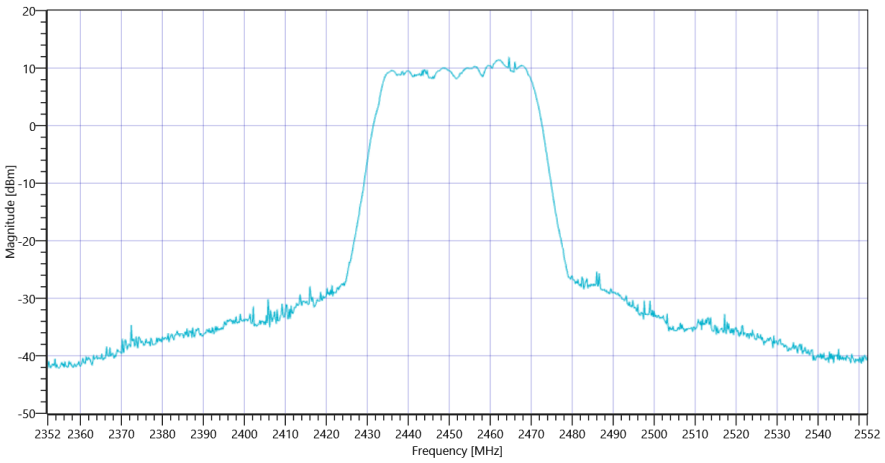
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2452 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.21	dBm	INFO
Ref. Frequency	---	---	2465.290	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.21 | 17.55 | 15
Start [MHz] | Stop [MHz]	2352.000 | 2552.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 10 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	11.93	dBm	Info
Peak Power	---	---	15.595525	mW	Info
Frequency at Peak	---	---	2464.59	MHz	Info



Common2G4 Peak OP 3MHz-3MHz ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:35:09
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	99
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

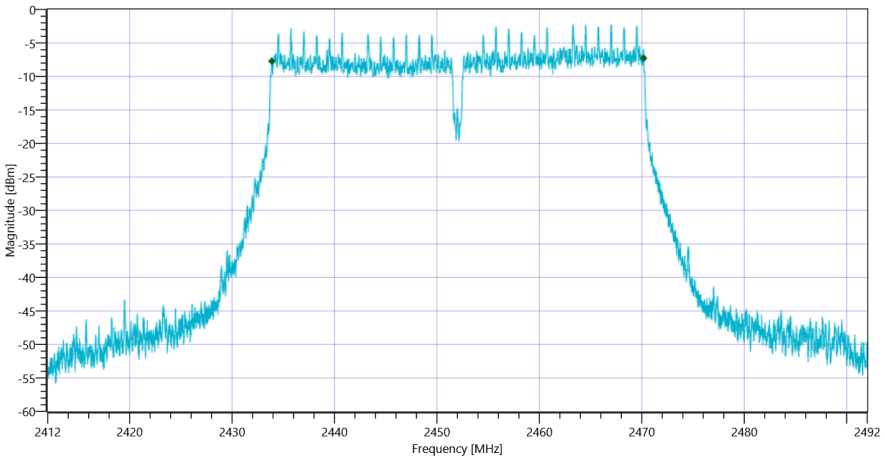
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2452 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.48	dBm	INFO
Ref. Frequency	---	---	2462.490	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.48 | 17.55 | 10
Start [MHz] | Stop [MHz]	2412.000 | 2492.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	36328	kHz	PASS



FCC Part 15.247 Bandwidth 6dB DTS ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:35:47
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

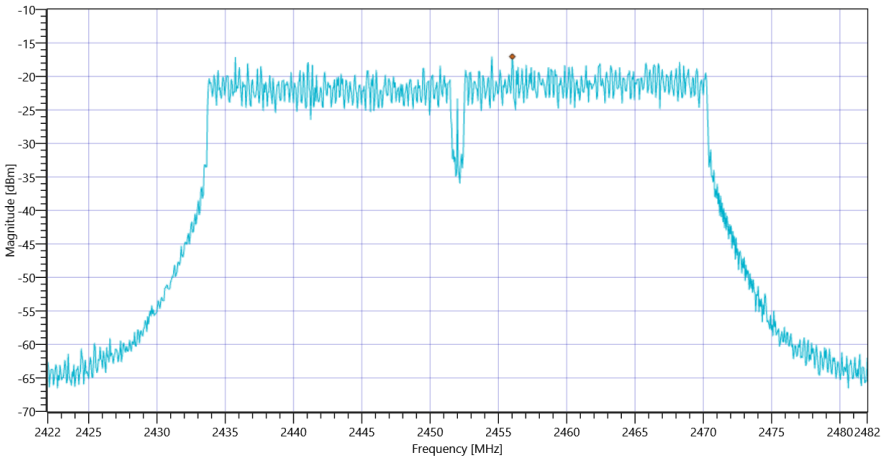
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2452 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.29	dBm	INFO
Ref. Frequency	---	---	2462.490	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.29 | 17.55 | 10
Start [MHz] | Stop [MHz]	2422.000 | 2482.000
RBW [MHz] | VBW [MHz]	0.003000 | 0.010000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1000 | 20 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-17.03	dBm/3KHz	PASS



FCC Part 15.247 Peak Power Spectral Density DTS ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:36:37
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

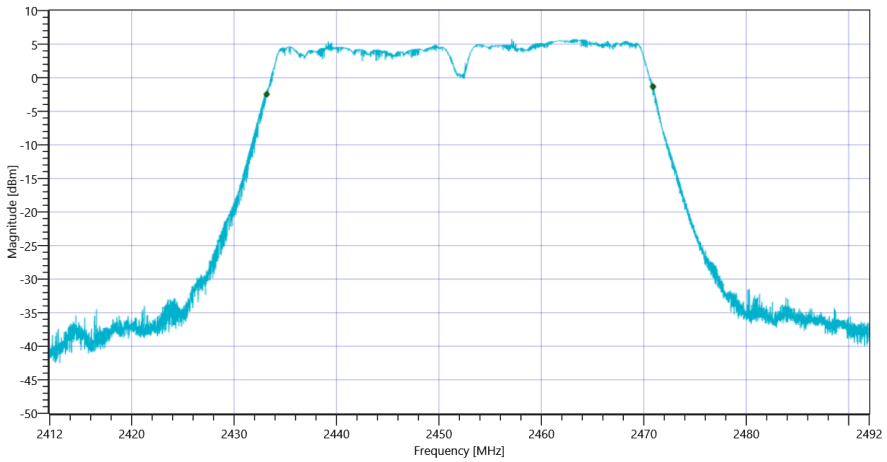
Test at TX 2452 MHz

RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.52	dBm	INFO
Ref. Frequency	---	---	2463.190	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.52 | 17.55 | 10
Start [MHz] | Stop [MHz]	2412.000 | 2492.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	50 | 200 | 10001 | SWE

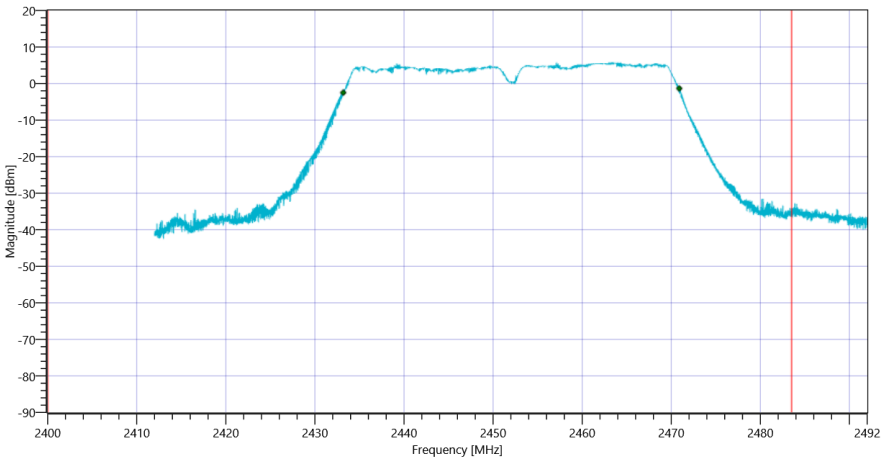
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	37716.228	kHz	INFO
T1 99%	2400.000000	---	2433.1779	MHz	PASS
T2 99%	---	2483.500000	2470.8941	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode 99PCT

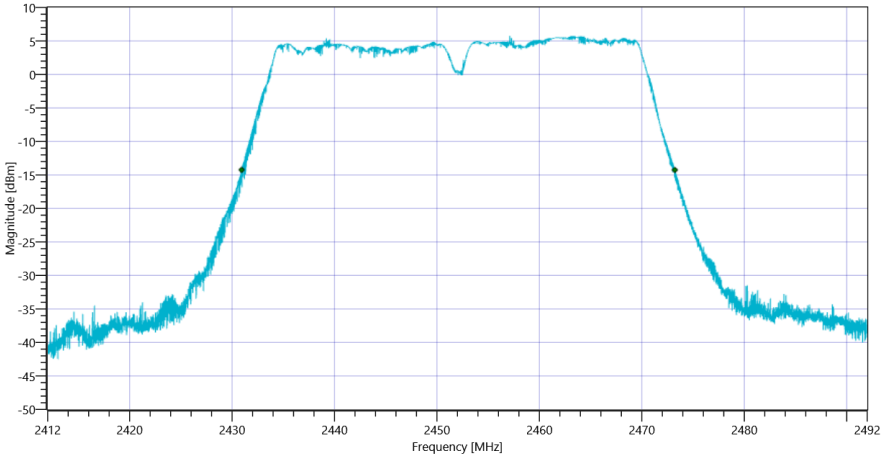
Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

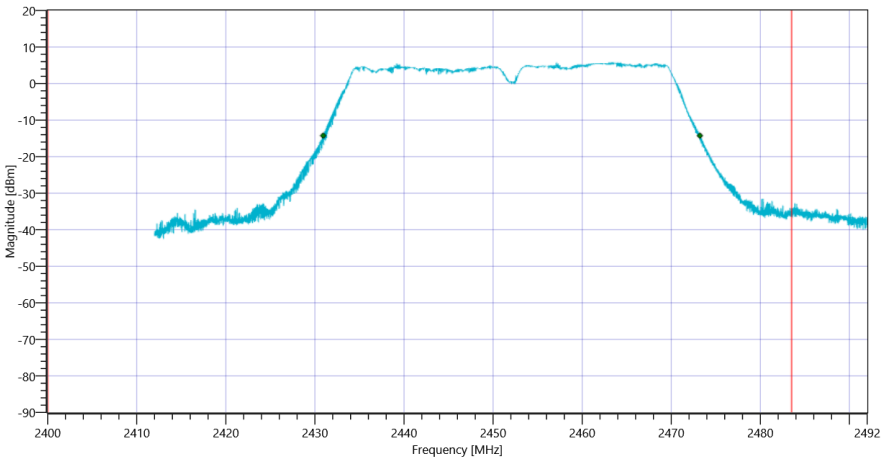
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	42288	kHz	INFO
T1 20DB	2400.000000	---	2430.9280	MHz	PASS
T2 20dB	---	2483.500000	2473.2160	MHz	PASS

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ WLAN2G4 nHT40-mode

General verdict	PASS

FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:37:38
Ambit Temp [°C] | Humidity [rel%]	25.0 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS - WLAN 2G4 nHT40_mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

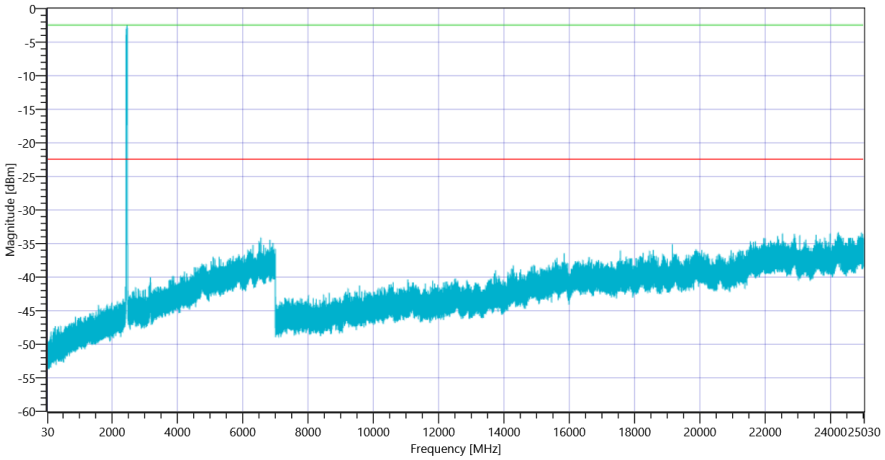
Test Equipment
SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI

Test at TX 2452 MHz

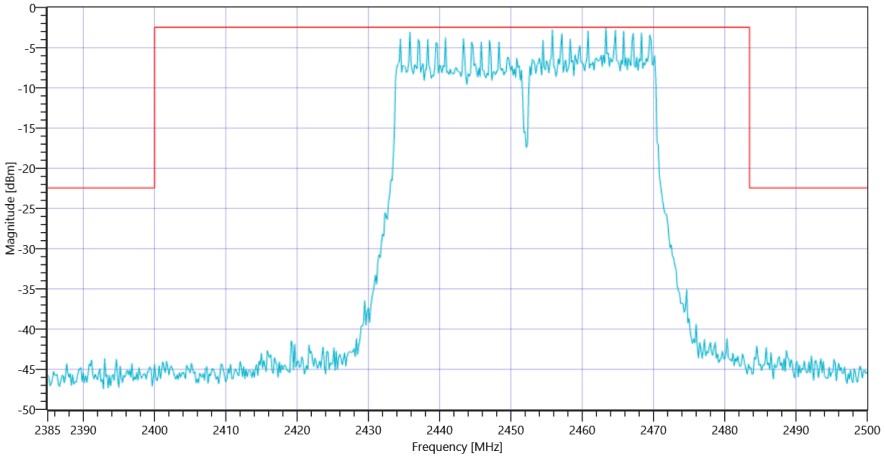
RESULT: Reference Power cond.					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.31	dBm	INFO
Ref. Frequency	---	---	2463.890	MHz	INFO

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	5.31 | 0 | 25
Start [MHz] | Stop [MHz]	24530.000 | 25030.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	500 | 8 | 3001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2463.33 MHz	---	---	-2.45	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24240 MHz	0	---	10.86	dB	INFO



FCC Part 15.247 TX Spurious Conduced ~ WLAN2G4 nHT40-mode 2452



General verdict	PASS

FCC Part 15.247 Maximum Peak Conducted Output Power Powermeter DTS ~ WLAN2G4 nHT40-mode

Test References	
TC Start	07.05.2021 11:44:46
Ambit Temp [°C] | Humidity [rel%]	24.9 | 24
System Version	3.0.1.0
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Powermeter Conducted DTS - WLAN 2G4 nHT40-mode
Add. Information	

EUT Common Settings WLAN2G4	
Number of Antenna Ports	1
User Interaction	No

Test Parameter	
Technology to test	WLAN2G4 nHT40-mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False | Freq [MHz] 2422
Frequency mid to test	False | Freq [MHz] 2437
Frequency high to test	True | Freq [MHz] 2452
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	2.1
Switched Path	EUT - SignalingUnit - PowerMeter

Test Equipment
SwitchMatrix: CTCadvanced,SPM-4 NI DAQ,28016133,NI
PM: Keysight Technologies,U2021XA,MY59190010,A.04.06

Test at TX 2452 MHz

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Found Peak cond.	---	---	21.43	dBm	PASS

General verdict	PASS

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