

Substance	Internal Standard	LOD [ng/mL]	LOQ [ng/mL]	Calibration range [ng/mL]	Determination
A-796,260	d5-JWH-200	0.03	0.1	0.1 - 2.0	quantitative
A-834,735	d7-JWH-015	0.05	0.1	0.1 - 2.0	quantitative
AB-001	d9-JWH-210	0.1	0.5	0.75 - 2.0	quantitative
5F-AB-001	d9-JWH-210	0.03	0.1	0.1 - 2.0	quantitative
AB-005	d9-JWH-210	0.02	0.1	0.1 - 2.0	quantitative
AB-FUBINACA	d11-JWH-018	0.25	0.25	0.25 - 2.0	semiquantitative
AB-PINACA	d11-JWH-018	0.2	0.6	0.75 - 2.0	quantitative
AB-PINACA-5F	d11-JWH-018	0.04	0.2	0.25 - 2.0	quantitative
ADB-FUBINACA	d11-JWH-018	0.25	0.25	0.25 - 2.0	semiquantitative
ADB-PINACA	d11-JWH-018	0.03	0.1	0.1 - 2.0	quantitative
5F-ADB-PINACA	d11-JWH-018	0.7	-	-	qualitative
ADBICA	d11-JWH-018	0.3	0.6	0.75 - 2.0	quantitative
5F-ADBICA	d11-JWH-018	0.4	0.8	1.0 - 2.0	semiquantitative
AKB48 (APINACA)	d9-JWH-210	0.1	0.2	0.25 - 2.0	semiquantitative
5F-AKB48	d11-JWH-018	0.04	0.1	0.1 - 2.0	quantitative
AM-1220	d5-JWH-200	0.03	0.1	0.1 - 2.0	semiquantitative
AM-1248	d5-JWH-200	0.02	0.1	0.1 - 2.0	semiquantitative
AM-2201	d11-JWH-018	0.03	0.1	0.1 - 2.0	quantitative
AM-2201 Indazol-Carboxamid-Derivat	d5-JWH-250	0.04	0.2	0.25 - 2.0	quantitative
AM-2232	d11-JWH-018	0.03	0.1	0.1 - 2.0	quantitative
AM-2233	d5-JWH-200	0.03	0.1	0.1 - 2.0	quantitative
AM-679	d9-JWH-073	0.04	0.1	0.1 - 2.0	semiquantitative
AM-694	d9-JWH-073	0.02	0.1	0.1 - 2.0	quantitative
APICA	d9-JWH-081	0.05	0.1	0.1 - 2.0	quantitative

Substance	Internal Standard	LOD [ng/mL]	LOQ [ng/mL]	Calibration range [ng/mL]	Determination
BB-22	d9-PB-22	0.03	0.1	0.1 - 2.0	quantitative
EAM-2201	d9-JWH-210	0.03	0.1	0.1 - 2.0	quantitative
FUB-PB-22	d9-PB-22	0.25	0.8	1.0 - 2.0	semiquantitative
4-HTMPIPO	d9-RCS-4	0.5	0.7	0.75 - 1.0	quantitative
JWH-007	d9-JWH-007	0.02	0.1	0.1 - 2.0	quantitative
JWH-015	d7-JWH-015	0.03	0.1	0.1 - 2.0	quantitative
JWH-018	d11-JWH-018	0.02	0.1	0.1 - 2.0	quantitative
JWH-019	d9-JWH-210	0.02	0.1	0.1 - 2.0	quantitative
JWH-020	d9-JWH-210	0.02	0.1	0.1 - 2.0	quantitative
JWH-022	d9-JWH-073	0.04	0.1	0.1 - 2.0	quantitative
JWH-030	d7-JWH-015	0.02	0.1	0.1 - 2.0	semiquantitative
JWH-073	d9-JWH-073	0.03	0.1	0.1 - 2.0	quantitative
JWH-080	d9-JWH-081	0.3	0.6	0.75 - 1.0	semiquantitative
JWH-081	d9-JWH-081	0.03	0.1	0.1 - 2.0	quantitative
JWH-122	d9-JWH-122	0.03	0.1	0.1 - 2.0	quantitative
JWH-180	d9-JWH-122	0.03	0.1	0.1 - 2.0	quantitative
JWH-182	d9-JWH-210	0.05	0.2	0.25 - 2.0	semiquantitative
JWH-200	d5-JWH-200	0.04	0.1	0.1 - 2.0	quantitative
JWH-203	d9-JWH-073	0.04	0.1	0.1 - 2.0	semiquantitative
JWH-210	d9-JWH-210	0.03	0.1	0.1 - 2.0	quantitative
JWH-213	d9-JWH-210	0.3	0.1	0.1 - 2.0	quantitative
JWH-250	d5-JWH-250	0.03	0.1	0.1 - 2.0	quantitative
JWH-251	d9-JWH-073	0.02	0.1	0.1 - 2.0	quantitative
JWH-307	d9-JWH-081	0.03	0.1	0.1 - 2.0	quantitative
JWH-368	d9-JWH-122	0.02	0.1	0.1 - 2.0	quantitative

Substance	Internal Standard	LOD [ng/mL]	LOQ [ng/mL]	Calibration range [ng/mL]	Determination
JWH-370	d5-JWH-200	0.03	0.1	0.1 - 2.0	quantitative
JWH-387	d9-JWH-210	0.04	0.1	0.1 - 2.0	quantitative
JWH-398	d9-JWH-398	0.02	0.1	0.1 - 2.0	quantitative
JWH-412	d9-JWH-081	0.04	0.1	0.1 - 2.0	semiquantitative
5F-JWH-412	d9-JWH-073	0.03	0.1	0.1 - 2.0	quantitative
MAM-2201	d5-MAM-2201	0.03	0.1	0.1 - 2.0	quantitative
MN-25	d5-UR-144	0.04	0.1	0.1 - 2.0	semiquantitative
NNEI	d9-RCS-4	0.03	0.1	0.1 - 2.0	quantitative
NNEI-5F	d9-RCS-4	0.02	0.1	0.1 - 2.0	quantitative
PB-22	d9-PB-22	0.03	0.1	0.1 - 2.0	quantitative
PB-22-5F	d9-PB-22	0.03	0.2	0.25 - 2.0	quantitative
RCS-4	d9-RCS-4	0.04	0.1	0.1 - 2.0	quantitative
RCS-4 ortho Isomer	d9-RCS-4	0.03	0.1	0.1 - 2.0	quantitative
RCS-8	d9-JWH-122	0.02	0.1	0.1 - 2.0	quantitative
STS-135	d9-JWH-073	0.03	0.1	0.1 - 2.0	quantitative
THJ	d9-PB-22	0.04	0.1	0.1 - 2.0	quantitative
5F-THJ	d9-PB-22	0.06	0.1	0.25 - 2.0	quantitative
THJ-018	d11-JWH-018	0.05	0.2	0.25 - 2.0	quantitative
THJ-2201	d11-JWH-018	0.03	0.1	0.1 - 2.0	quantitative
UR-144	d5-UR-144	0.06	0.1	0.1 - 2.0	quantitative
UR-144 Isomer	d5-UR-144	0.03	0.1	0.1 - 2.0	quantitative
WIN 48,098	d5-JWH-200	0.03	0.1	0.1 - 2.0	quantitative
WIN-55,212-2	d7-JWH-015	0.02	0.1	0.1 - 2.0	quantitative
XLR-11	d5-XLR-11	0.03	0.1	0.1 - 2.0	quantitative
XLR-11 Isomer	d5-XLR-11	0.03	0.1	0.1 - 2.0	quantitative
XLR-12	d5-XLR-11	0.25	-	-	qualitative

Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
A-796,260	355.2	125.1 114.1	80	5	29 41	9 8	3.3	52
A-834735 1	340.2	125.1 242.3	80	5	32 34	9 18	5	7
AB-001 1	350.5	135.2 79.1	90	5	41 84	10 11	8.3	16
5F-AB-001	368.1	135.2 79.1	95	5	45 91	10 11	6.8	15
AB-005	353.2	112.1 97.1	80	5	33 54	8 7	3.3	100
AB-CHMINACA	357.1	241.3 312.4	49	10	35 23	5 2	4.1	82
AB-FUBINACA	369.2	324.2 253.3	70	10	24 35	9 12	3.6	95
AB-PINACA	331.2	286.2 215.3	70	10	55 23	10 8	3.8	10
5F-AB-PINACA	349.4	304.4 213.1	55	5	22 43	3 12	3.5	28
5F-ABICA	348.4	232.2 331.4	40	10	27 16	2 9	3.4	130
ADB-CHMICA	370.2	240.2 353.4	55	5	32 19	17 5	4.1	67
ADB-FUBINACA	383.2	338.2 253.2	30	8	18 30	14 30	3.8	78
ADB-PINACA	345.5	145.1 215.3	40	5	50 23	13 22	4	145
5F-ADB-PINACA	363.1	233.3 318.4	50	4	35 35	9 18	3.7	9
ADBICA 1	344.2	214.1 144.1	51	14	26 50	20 5	3.9	28
5F-ADBICA	362.1	232.3 144.1	40	5	30 50	20 12	3.6	29

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New & not validated

Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
AKB48	366.2	135.1 93.1 79.1	67	5	27 72 85	21 6 11	8.4	17 13
5F-AKB48	384.1	135.1 93.1	60	5	31 68	11 6	6.9	13
AM-1220	383.5	98.1 112.1	78	5	57 30	6 9	3.2	91
AM-1248	391.2	135.1 112.1	100	5	44 44	9 7	3.4	38
AM-2201	360.2	155.1 127.1	80	5	35 68	11 9	5.1	74
AM-2201 Indazole-Carboxamide-Derivative (5F-MN-18)	376.2	233.3 213.3	68	5	24 38	11 16	5.4	30
AM-2232	353.1	155.1 127.1	80	5	33 70	12 9	4.2	61
AM-2233	459.1	98.1 112.1	85	5	59 33	6 8	3.1	59
AM-679	418.2	231 203.1	85	5	32 64	14 14	5.6	50
AM-694	436.3	231 203	90	5	40 67	16 8	4.7	36
AMB	346.4	215.2 286.4	64	11	30 22	4 5	5.3	66
5F-AMB	364.4	233.3 304.4	45	11	30 22	20 4	4.4	150
5F-AMB-PICA (MMB-2201)	363.1	232.1 144.1	45	11	22 52	13 11	4	41
APICA	365.1	135.1 93.1	90	9	44 71	11 6	7.2	22
BB-22	385.5	240.3 144.1	60	4	8 37	5 5	6.3	89
3-CAF	383.4	239.2 184.2	55	9	20 62	16 30	6.5	12

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Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
Cumyl-BICA	335.4	217.2 174.2	64	5	21 36	17 14	4.8	99
Cumyl-PICA	349.4	231.2 188.2	50	10	22 36	5 14	5.3	27
5F-Cumyl-PICA	367.1	249.3 206.2	62	5	22 37	20 17	4.5	32
Cumyl-PINACA	350.4	215.1 232.3	50	10	28 16	4 12	6.4	93
5F-Cumyl-PINACA	368.1	233.2 250.3	50	4	30 15	18 12	5	99
Cumyl-THPINACA	378.1	243.1 260.3	49	5	30 16	12 10	4.3	99
EAM-2201	388.1	183.1 232.1	90	5	38 37	13 19	6.2	35
EG-018	392.1	155 127.1	70	14	38 73	11 20	8.5	65
FAB-144	331.1	233.2 213.2	70	3	28 39	8 11	7.1	40
FUB-144	350.1	109 125	71	11	60 35	7 5	6.3	92
FUB-AMB	384.1	324.3 253.2	58	5	23 32	19 9	4.6	130
FUB-AKB48	404.1	135.1 134.1	64	10	32 32	10 10	7.3	46
FUB-PB-22	397.4	109.1 252.1	78	8	34 10	15 25	4.8	91
4-HTMPIPO	330.5	214.1 144.1	60	11	35 55	8 5	4.7	43
JWH-007	356.1	155.2 127.2	90	5	36 70	12 9	6.9	67
JWH-015	328.201	155.101 127.101	85	5	34 65	11 8	5.2	68

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Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
JWH-018	342.2	155.1 127.1	80	5	35 70	7 8	6.5	72
JWH-019	356.2	155.1 127.1	100	5	36 71	11 9	7.4	70
JWH-020	370.3	155.1 127.1	80	5	36 71	10 9	8	70
JWH-022	340.1	155.1 127.1	80	5	28 58	16 9	5.7	126
JWH-030	292.2	155.1 127.1	80	5	27 57	12 9	5	56
JWH-073	328.2	155.2 127.2	85	5	32 65	11 8	5.7	64
JWH-080	358.1	185.1 157.1	85	5	35 36	15 15	5.8	2
JWH-081	372.2	185.1 214.2	85	5	35 35	12 10	6.9	34
JWH-122	356.2	169.1 141.1	100	5	36 60	12 9	7.3	62
JWH-180	356.2	197.3 141.2	100	5	36 60	14 11	7	51
JWH-182	384.2	197.1 141.2	90	5	38 66	16 11	8.3	47
JWH-200	385.2	155.1 114.1	75	5	33 37	11 8	3.3	55
JWH-203	340.1	125 188.2	85	5	40 30	8 13	6.1	14
JWH-210	370.2	183.1 214.2	90	5	35 35	8 10	7.8	33
JWH-213	384.1	183.2 153.2	90	5	38 35	14 10	8	28
JWH-250	336.3	121.1 91.1	78	5	30 63	8 5	5.5	43

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Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
JWH-251	320.2	105.1 214.1	80	5	34 34	6 9	6	65
JWH-307	386.1	155.1 127	85	5	30 76	11 9	7.3	66
JWH-368	386.2	155.2 127.1	80	5	29 72	11 10	7.5	61
JWH-370	382.2	155 127	65	5	29 75	13 9	7.8	63
JWH-387	420.1	233 205	75	5	38 62	5 15	7.9	47
JWH-398	376.2	189.2 161.2	85	5	37 62	14 12	7.8	57
JWH-412	360.4	173.2 145.1	90	5	36 66	13 10	7	58
5F-JWH-412	378.1	173.1 145.1	90	5	40 66	12 9	7	64
M-144	344.1	246.1 158.1	90	15	37 50	21 22	6.9	54
MA-CHMINACA	372.1	241.2 312.4	70	5	30 22	8 8	6	47
ADB-CHMINACA (MAB-CHMINACA)	371.1	326.4 145.1	50	5	25 60	10 10	4.4	68
MAM-2201	374.1	169.2 141.1	90	5	37 61	13 10	5.5	65
MDMB-CHMICA	385.1	240.1 144.1	50	5	25 53	5 10	5.8	36
MDMB-CHMINACA	386.1	241.2 326.4	70	5	37 25	12 9	7	92
MN-18	358.1	215.1 358.4	50	10	27 12	4 3	7.2	22
MN-25	440.1	261.2 353.3	93	10	27 35	25 13	3.5	57

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Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
NM-2201	376.1	232.2 144.1	45	7	23 52	13 9	6.2	90
NNEI	357.2	214.2 144.1	76	5	30 54	18 11	5.3	44
5F-NNEI	375.5	232.2 144.1	80	4	17 42	15 15	4.5	114
NPB-22	360.3	215.3 145.1	51	9	21 45	4 12	5.1	87
5F-NPB-22	378.2	233.2 145.1	56	10	25 55	5 9	4.4	50
PB-22	359.1	214.1 144.1	52	5	21 51	10 10	5.5	35
5F-PB-22	377.1	232.1 144.1	55	5	21 54	8 10	4.6	41
5F-PCN	376.1	233.2 145.1	67	4	26 38	18 18	5.4	9
PX-1 (5F-APP-PICA)	396.1	232.2 379.1	58	5	30 16	5 5	3.5	98
PX-2 (5F-APP-PINACA)	397.1	352.2 233.1	54	4	22 33	10 12	3.6	110
RCS-4	322.2	135.1 77.1	70	5	34 77	10 4	5.3	38
RCS-4 ortho Isomer	322.1	135.1 77.1	90	5	32 74	10 4	4.9	34
RCS-8	376.2	121 91	70	5	34 74	8 5	7.2	42
SDB-005	359.1	215.2 145	50	4	21 46	6 10	7.3	61
5F-SDB-005	377.3	233.3 145.1	44	11	18 54	12 5	5.7	72
SDB-006	321.4	91.1 214.2	61	14	59 31	5 16	4.6	91

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New & not validated

Substance	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]	Qualifier/ Quantifier Ratio [%]
5F-SDB-006	339.1	91 232.2	81	5	65 30	6 5	4	94
STS-135	383.1	135.1 93.1	92	9	44 74	11 6	5.7	22
THJ	359.4	215.2 341.5	70	10	25 27	20 9	7.7	34
5F-THJ	377.4	359.4 233.3	75	10	30 23	10 14	5.9	115
THJ-018	343.3	215.2 145.1	110	5	16 40	20 20	7.3	87
THJ-2201	361.3	233.3 213.1	60	10	22 33	17 17	5.6	45
UR-144	312.1	125 214	80	5	34 34	16 17	7.5	42
UR-144 Isomer	312.1	214.1 144.1	85	5	32 52	15 10	6.9	45
WIN 48098	379.2	135 77.1	70	5	28 87	11 11	3	17
WIN 55,212-2	427.2	155.1 127.1	80	5	32 80	11 8	4.1	42
XLR-11	330.1	125.1 232.1	85	5	32 34	9 18	5.9	34
XLR-11 Isomer	330.1	232.2 144.1	80	5	34 54	18 10	5.3	40
XLR-12	352.6	254.3 334.3	89	15	36 29	20 8	5.9	37

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New & not validated

Internal standards	Q ₁ [amu]	Q ₃ [amu]	DP [eV]	EP [eV]	CE [eV]	CXP [eV]	t _R [min]
d9-ADBICA	353.2	223.1	50	11	28	18	3.8
d9-AKB48	375.2	135.1	67	5	27	21	8.3
d9-JWH-007	365.2	155.1	90	5	36	11	6.8
d7-JWH-015	335.2	155.1	85	5	34	11	5.2
d9-JWH-018	351.2	155.1	80	5	35	7	6.5
d9-JWH-073	337.3	155.1	85	5	32	11	5.6
d9-JWH-081	381.2	185.2	85	5	35	12	6.8
d9-JWH-122	365.2	169.2	100	5	36	12	7.2
d5-JWH-200	390.2	155.1	75	5	33	11	3.3
d9-JWH-210	379.2	183.2	90	5	35	8	7.8
d5-JWH-250	341.1	121.1	78	5	30	8	5.5
d9-JWH-398	385.2	189.2	85	5	37	14	7.7
d5-MAM-2201	379.1	169.2	90	5	37	13	5.5
d9-PB-22	368.1	223.1	52	5	21	10	5.5
d9-RCS-4	331.2	135.1	70	5	34	10	5.2
d5-UR-144	317.1	125.1	80	5	34	16	7.5
d5-XLR-11	335.1	125.1	85	5	32	9	5.8