

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM011321\
 Data File : BM028383.D
 Acq On : 13 Jan 2021 10:50
 Operator : CG/JU
 Sample : L5214-04
 Misc : SFAM-SIM-MDL-S-02
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-QT1-2021-02

Quant Time: Jan 13 11:23:44 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM011321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 12 10:28:38 2021
 Response via : Initial Calibration

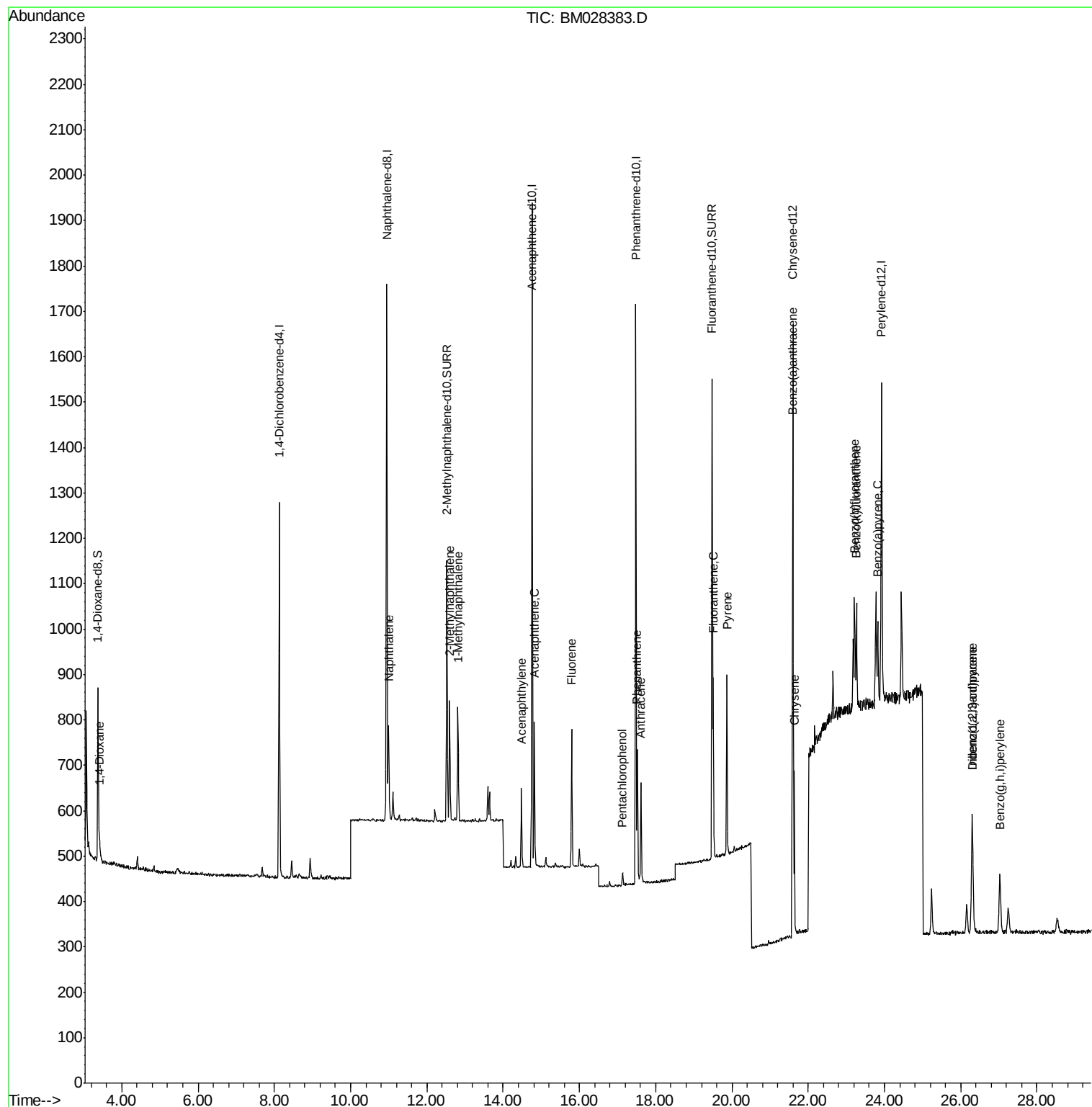
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.13	152	415	0.40	ng/ul	0.00
4) Naphthalene-d8	10.95	136	1562	0.40	ng/ul	0.00
9) Acenaphthene-d10	14.76	164	799	0.40	ng/ul	0.00
13) Phenanthrene-d10	17.48	188	1559	0.40	ng/ul	0.00
17) Chrysene-d12	21.60	240	1136	0.40	ng/ul	0.00
23) Perylene-d12	23.92	264	947	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.37	96	242	0.52	ng/ul	0.00
6) 2-Methylnaphthalene-d10	12.52	152	712	0.32	ng/ul	0.00
18) Fluoranthene-d10	19.48	212	1145	0.32	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.41	88	31	0.065	ng/ul#	81
5) Naphthalene	11.00	128	277	0.062	ng/ul#	60
7) 2-Methylnaphthalene	12.60	142	177	0.062	ng/ul	98
8) 1-Methylnaphthalene	12.81	142	173	0.063	ng/ul	96
10) Acenaphthylene	14.48	152	200	0.058	ng/ul#	62
11) Acenaphthene	14.82	153	177	0.060	ng/ul#	91
12) Fluorene	15.80	166	197	0.061	ng/ul#	93
14) Pentachlorophenol	17.13	266	25	0.071	ng/ul	97
15) Phenanthrene	17.52	178	300	0.061	ng/ul#	71
16) Anthracene	17.61	178	263	0.061	ng/ul#	66
19) Fluoranthene	19.51	202	332	0.067	ng/ul#	71
20) Pyrene	19.87	202	328	0.067	ng/ul#	72
21) Benzo(a)anthracene	21.58	228	275	0.071	ng/ul#	79
22) Chrysene	21.63	228	306	0.072	ng/ul#	81
24) Benzo(b)fluoranthene	23.22	252	320	0.079	ng/ul#	47
25) Benzo(k)fluoranthene	23.26	252	275	0.071	ng/ul#	45
26) Benzo(a)pyrene	23.82	252	246	0.074	ng/ul#	34
27) Indeno(1,2,3-cd)pyrene	26.30	276	311	0.071	ng/ul#	95
28) Dibenzo(a,h)anthracene	26.31	278	248	0.068	ng/ul#	44
29) Benzo(g,h,i)perylene	27.03	276	270	0.069	ng/ul#	59

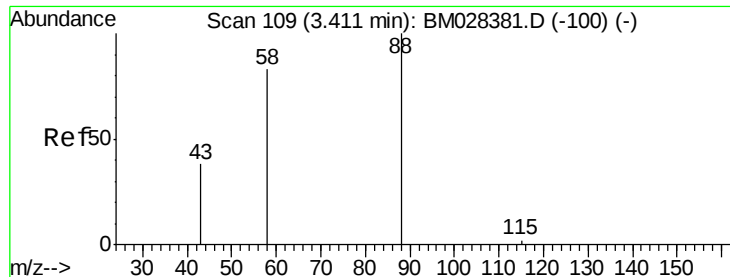
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 13 11:23:44 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM011121.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#2

1,4-Dioxane

Concen: 0.065 ng/ul

RT: 3.41 min Scan# 110

Delta R.T. 0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2021-02

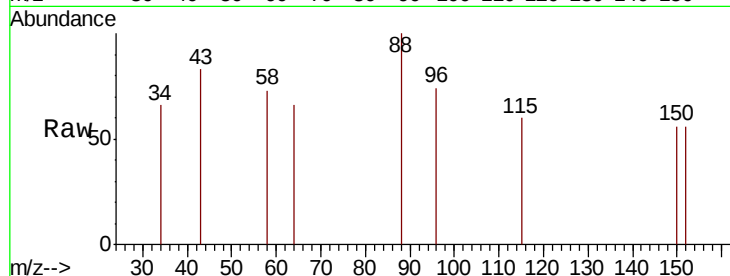
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 82.6 47.8 71.6#

58 73.3 67.1 100.7



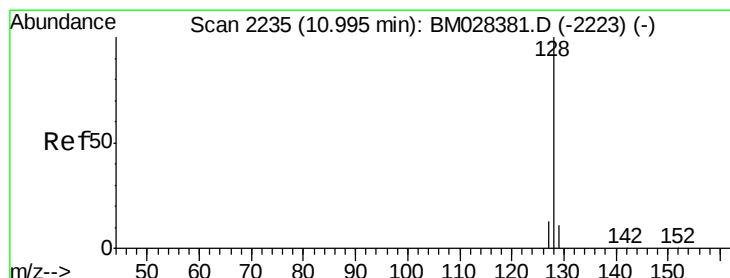
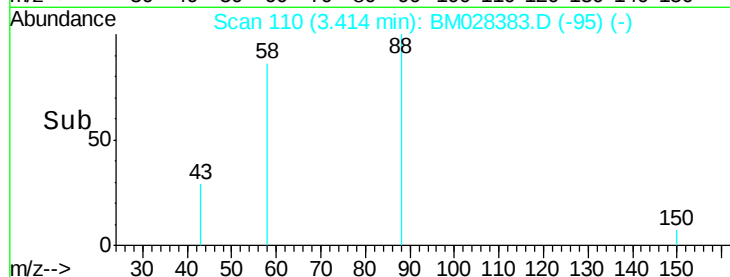
Abundance Ion 88.00 (87.70 to 88.70): BM028383.D (-110) (-)

Ion 43.00 (42.70 to 43.70): BM028383.D (-110) (-)

Ion 58.00 (57.70 to 58.70): BM028383.D (-110) (-)

3.41

Time--> 3.35 3.40 3.45



#5

Naphthalene

Concen: 0.062 ng/ul

RT: 11.00 min Scan# 2235

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

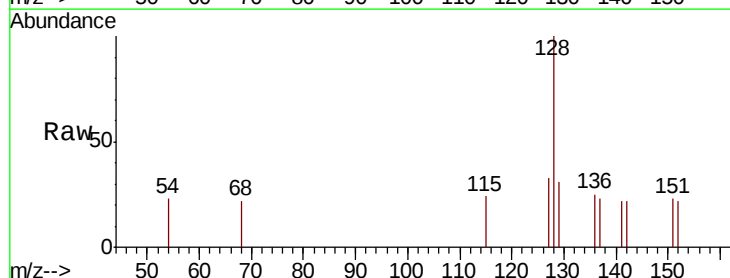
Tgt Ion: 128 Resp: 277

Ion Ratio Lower Upper

128 100

129 31.1 11.1 16.7#

127 32.5 13.0 19.4#



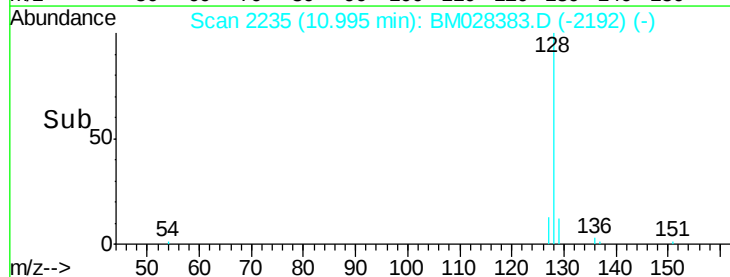
Abundance Ion 128.00 (127.70 to 128.70): BM028383.D (-2235) (-)

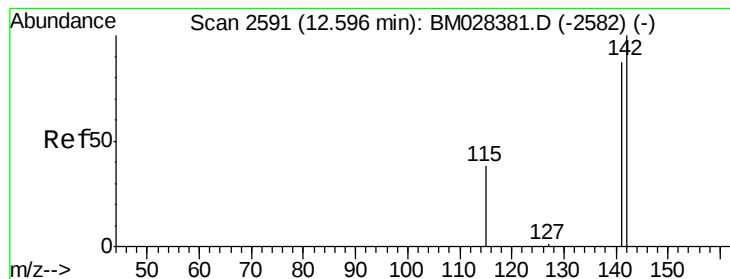
Ion 129.00 (128.70 to 129.70): BM028383.D (-2235) (-)

Ion 127.00 (126.70 to 127.70): BM028383.D (-2235) (-)

11.00

Time--> 10.90 10.95 11.00 11.05





#7

2-Methylnaphthalene

Concen: 0.062 ng/uL

RT: 12.60 min Scan# 2591

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

BNA_M

ClientSampleId :

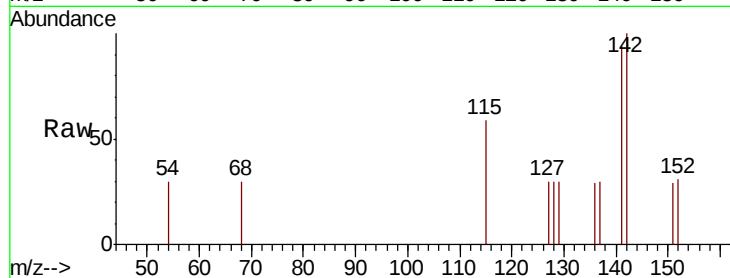
MDL-SOIL-QT1-2021-02

Tot Ion:142 Resp: 177

Ion Ratio Lower Upper

142 100

141 90.4 71.0 106.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.60

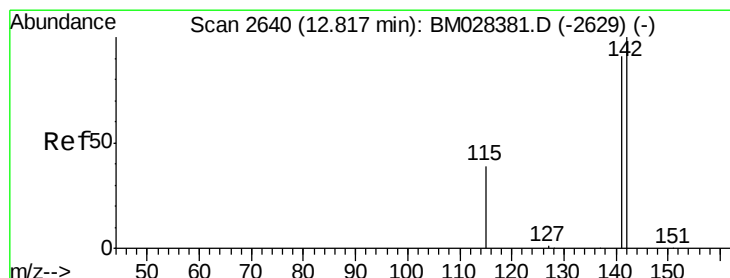
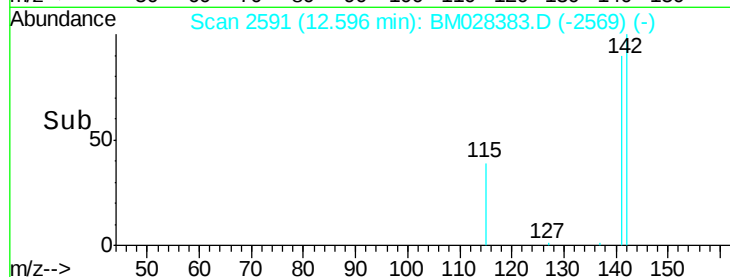
150

100

50

0

Time--> 12.50 12.60 12.70



#8

1-Methylnaphthalene

Concen: 0.063 ng/uL

RT: 12.81 min Scan# 2639

Delta R.T. -0.00 min

Lab File: BM028383.D

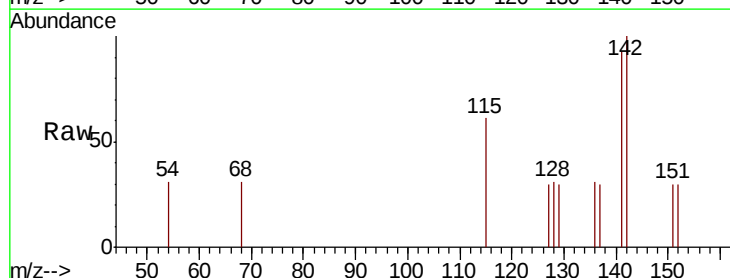
Acq: 13 Jan 2021 10:50

Tgt Ion:142 Resp: 173

Ion Ratio Lower Upper

142 100

141 89.0 74.0 111.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.81

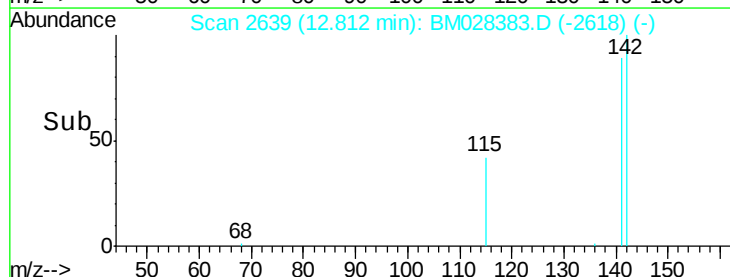
150

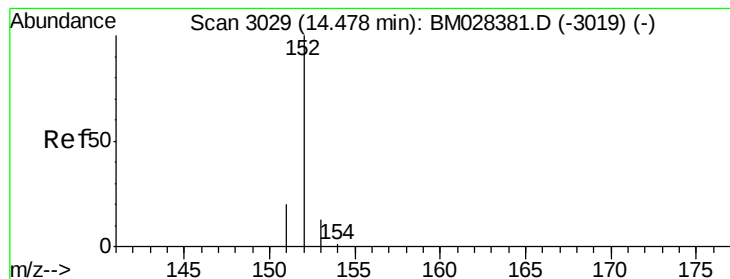
100

50

0

Time--> 12.80 12.90





#10

Acenaphthylene

Concen: 0.058 ng/ul

RT: 14.48 min Scan# 3030

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2021-02

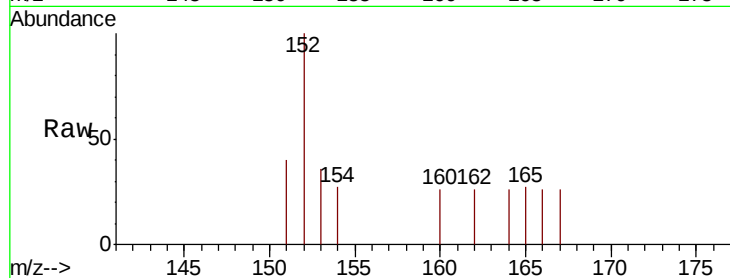
Tot Ion:152 Resp: 200

Ion Ratio Lower Upper

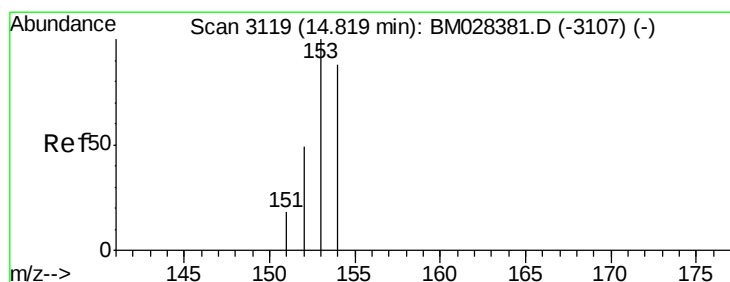
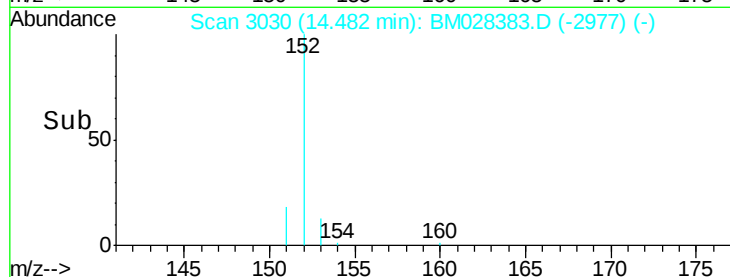
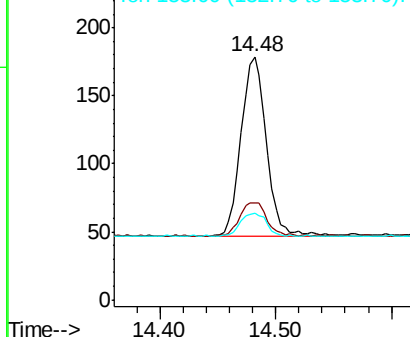
152 100

151 39.7 18.4 27.6#

153 35.8 13.8 20.6#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#11

Acenaphthene

Concen: 0.060 ng/ul

RT: 14.82 min Scan# 3119

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

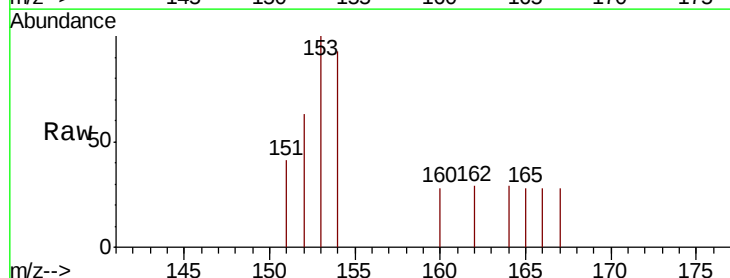
Tgt Ion:153 Resp: 177

Ion Ratio Lower Upper

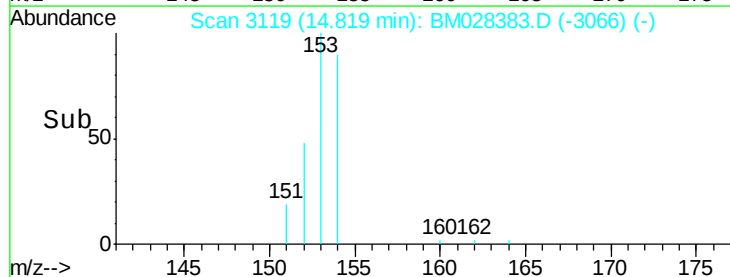
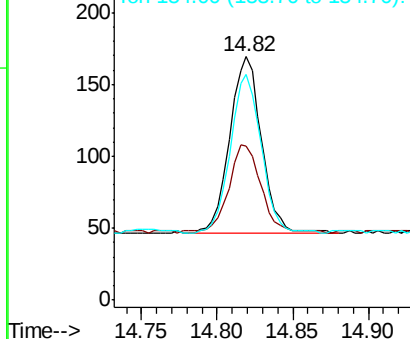
153 100

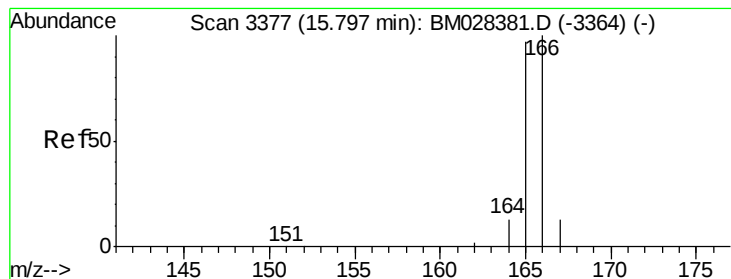
152 63.3 40.9 61.3#

154 92.9 71.7 107.5



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





#12

Fluorene

Concen: 0.061 ng/ul

RT: 15.80 min Scan# 3377

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2021-02

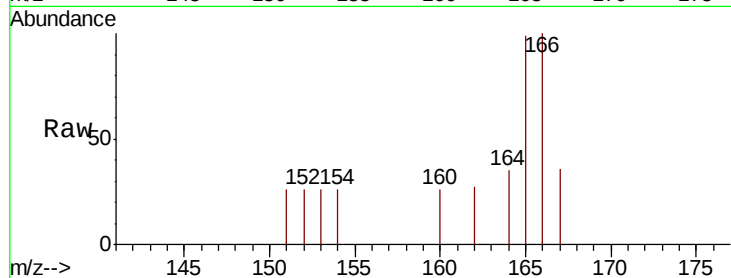
Tot Ion:166 Resp: 197

Ion Ratio Lower Upper

166 100

165 98.9 78.6 117.8

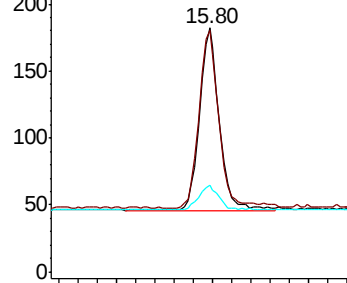
167 35.7 14.2 21.2#



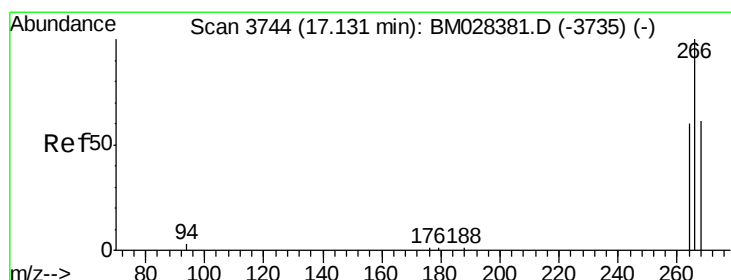
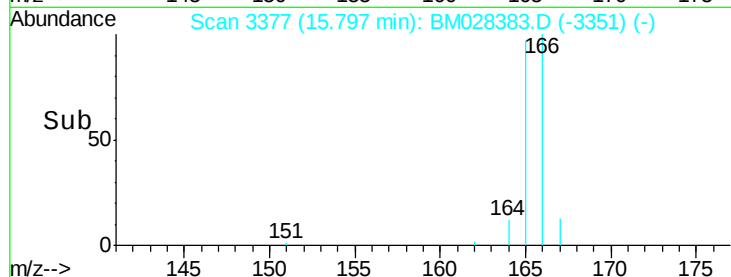
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#14

Pentachlorophenol

Concen: 0.071 ng/ul

RT: 17.13 min Scan# 3745

Delta R.T. 0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

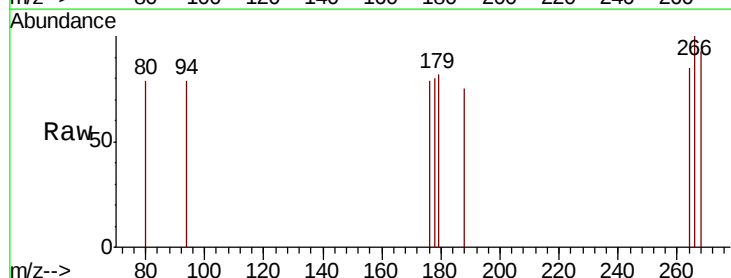
Tgt Ion:266 Resp: 25

Ion Ratio Lower Upper

266 100

264 64.0 52.6 78.8

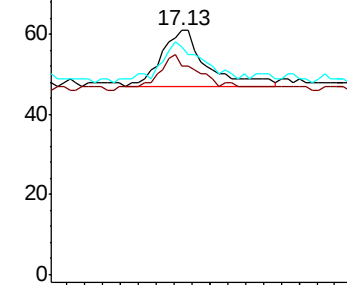
268 68.0 52.0 78.0



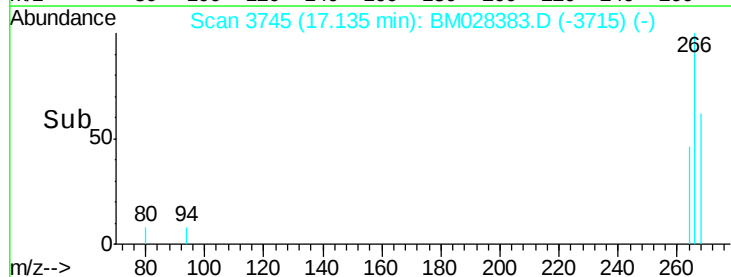
Abundance Ion 266.00 (265.70 to 266.70): E

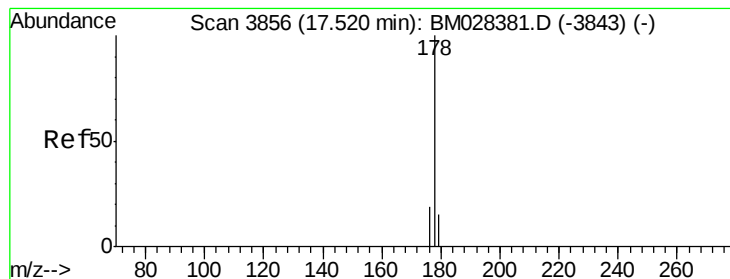
Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



Time-->





#15

Phenanthrene

Concen: 0.061 ng/ul

RT: 17.52 min Scan# 3856

Delta R.T. -0.00 min

Lab File: BM028383.D

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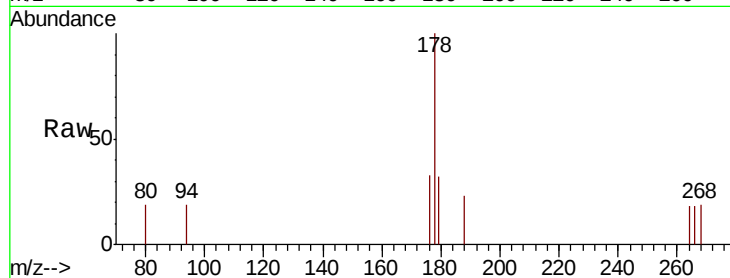
Tot Ion:178 Resp: 300

Ion Ratio Lower Upper

178 100

179 32.3 14.6 21.8#

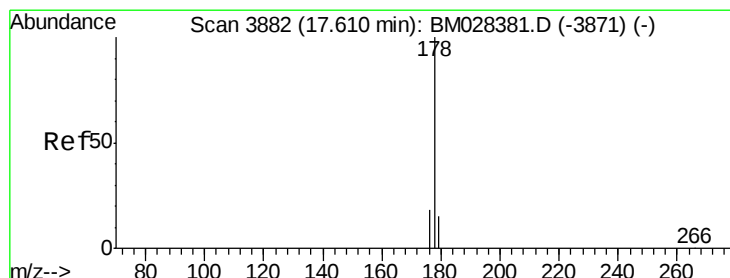
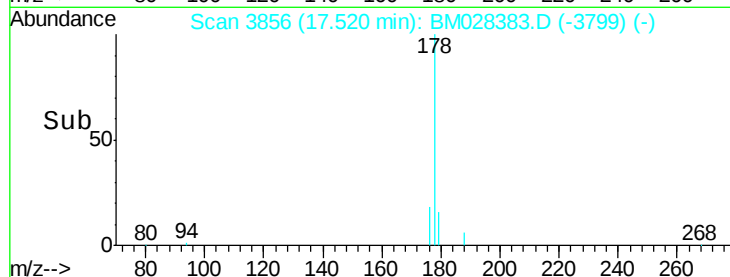
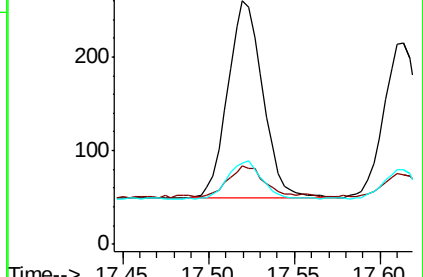
176 33.5 17.0 25.6#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#16

Anthracene

Concen: 0.061 ng/ul

RT: 17.61 min Scan# 3883

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

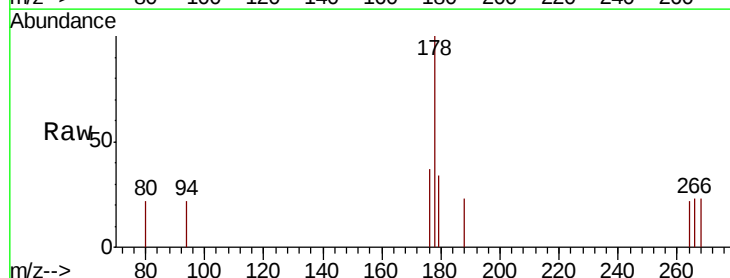
Tgt Ion:178 Resp: 263

Ion Ratio Lower Upper

178 100

179 34.4 15.1 22.7#

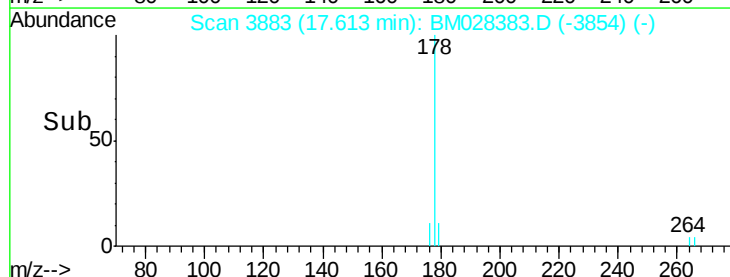
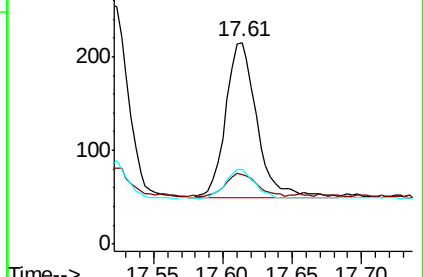
176 37.2 17.0 25.4#

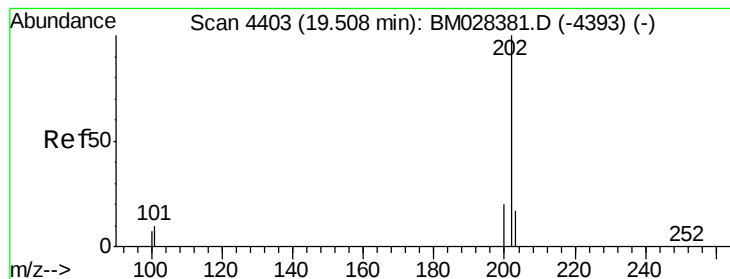


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#19

Fluoranthene

Concen: 0.067 ng/ul

RT: 19.51 min Scan# 4403

Delta R.T. -0.00 min

Lab File: BM028383.D

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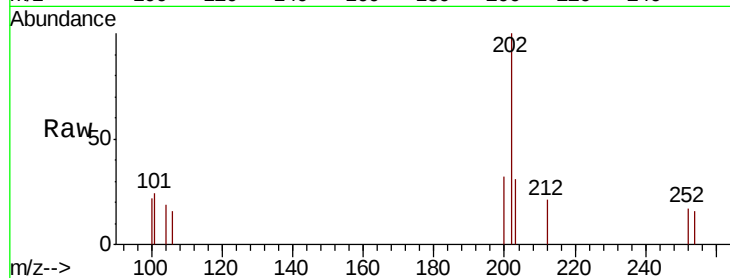
Tot Ion:202 Resp: 332

Ion Ratio Lower Upper

202 100

101 24.2 10.2 15.4#

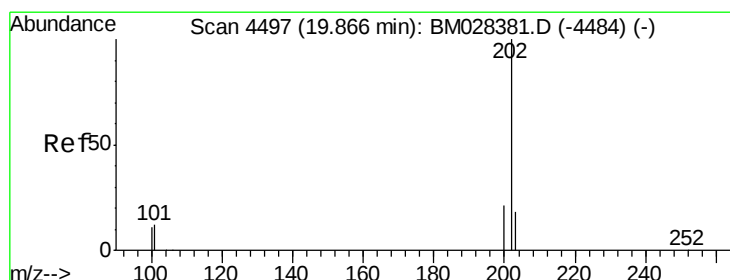
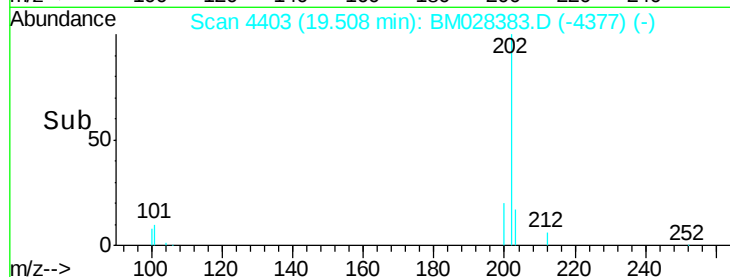
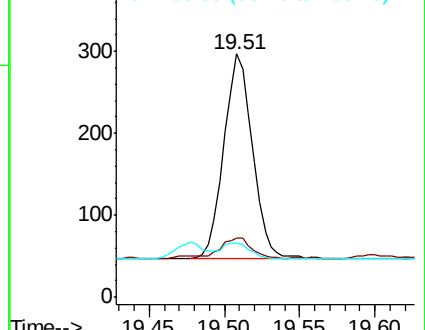
100 22.2 9.0 13.4#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#20

Pyrene

Concen: 0.067 ng/ul

RT: 19.87 min Scan# 4497

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

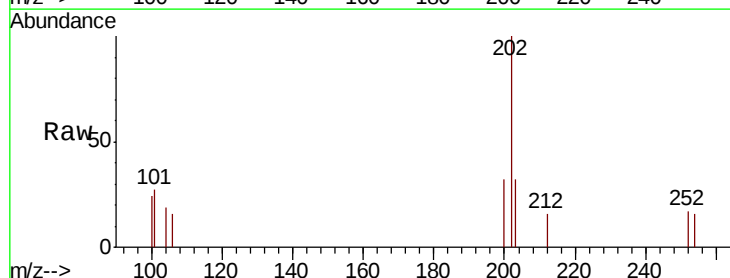
Tgt Ion:202 Resp: 328

Ion Ratio Lower Upper

202 100

101 26.5 11.8 17.8#

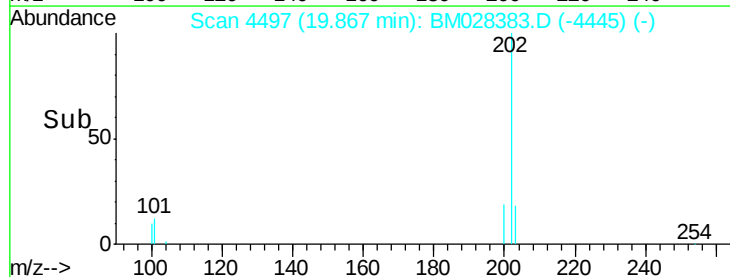
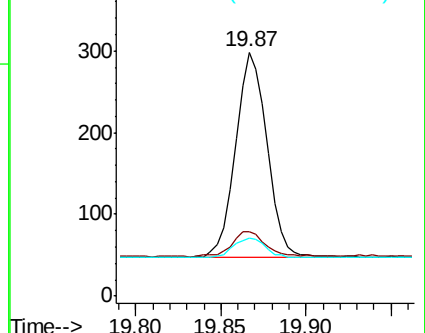
100 23.8 10.1 15.1#

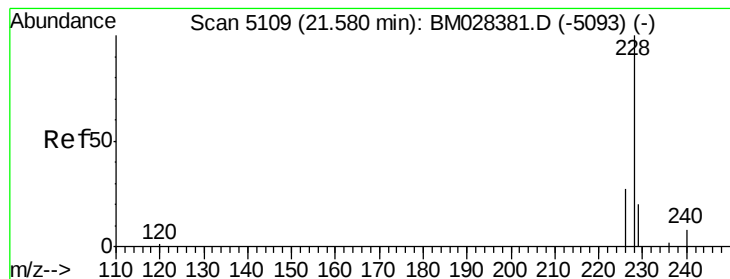


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 0.071 ng/ul

RT: 21.58 min Scan# 5109

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

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ClientSampleId :

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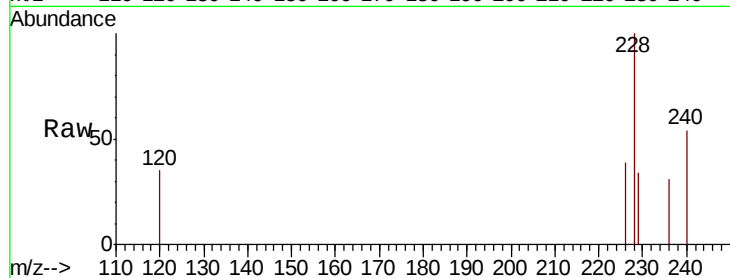
Tot Ion:228 Resp: 275

Ion Ratio Lower Upper

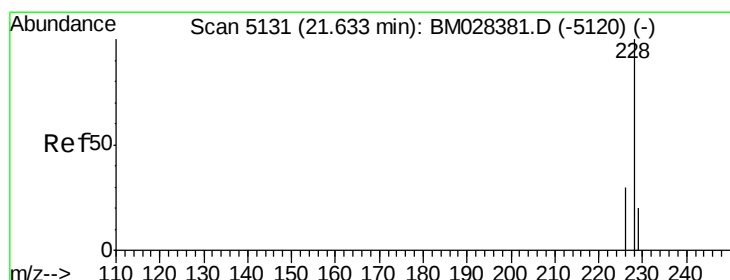
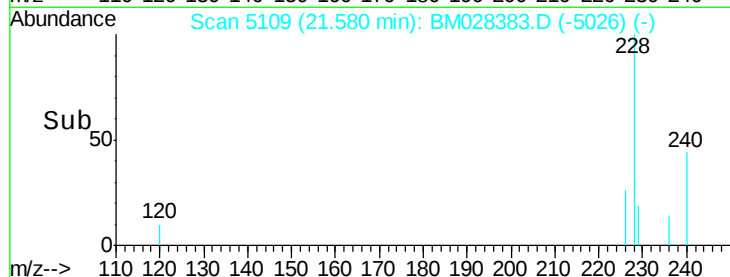
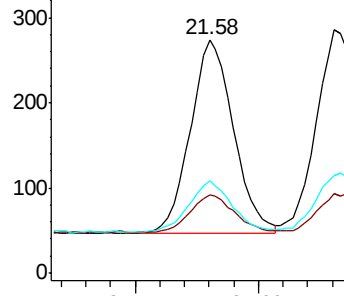
228 100

229 33.6 18.3 27.5#

226 39.4 23.0 34.4#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#22

Chrysene

Concen: 0.072 ng/ul

RT: 21.63 min Scan# 5130

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

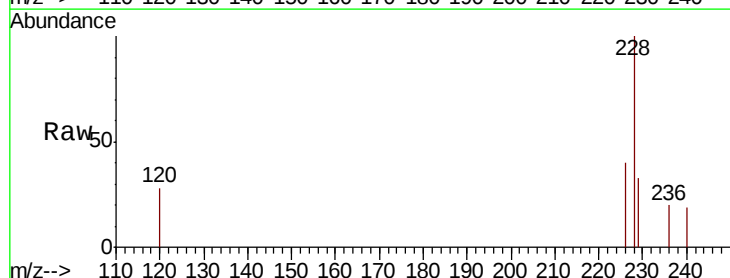
Tgt Ion:228 Resp: 306

Ion Ratio Lower Upper

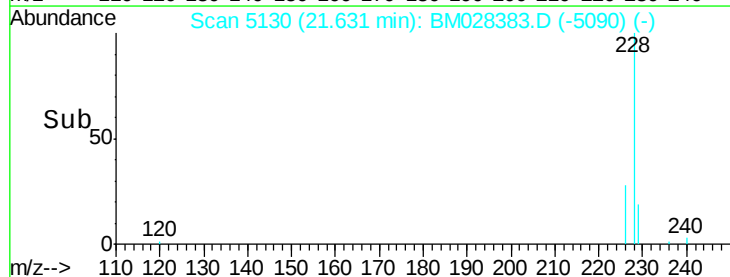
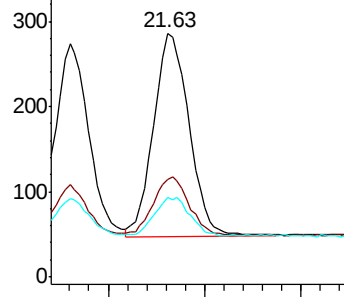
228 100

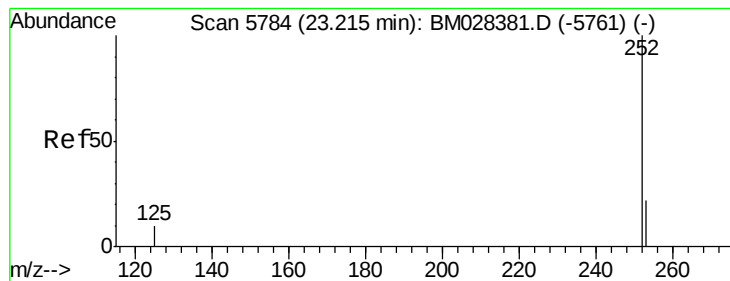
226 40.2 25.1 37.7#

229 32.9 17.4 26.0#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#24

Benzo(b)fluoranthene

Concen: 0.079 ng/ul

RT: 23.22 min Scan# 5785

Delta R.T. 0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2021-02

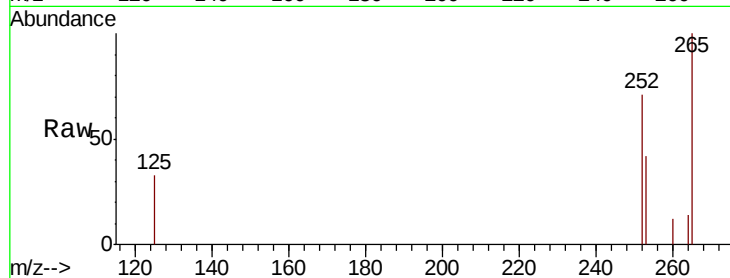
Tot Ion:252 Resp: 320

Ion Ratio Lower Upper

252 100

253 58.9 0.0 61.4

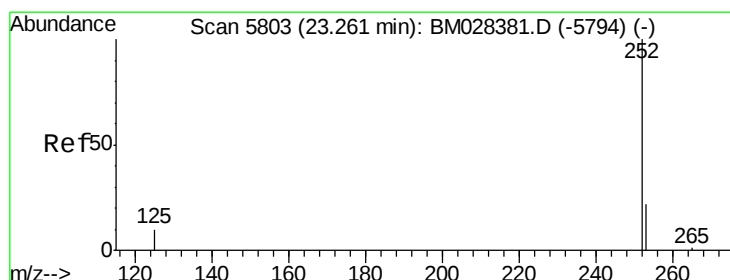
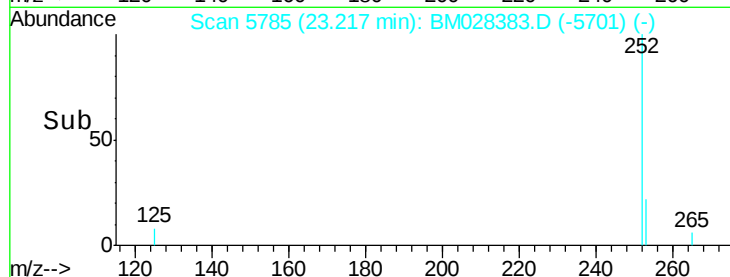
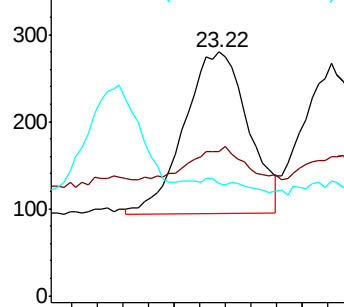
125 46.1 0.0 40.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#25

Benzo(k)fluoranthene

Concen: 0.071 ng/ul

RT: 23.26 min Scan# 5803

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

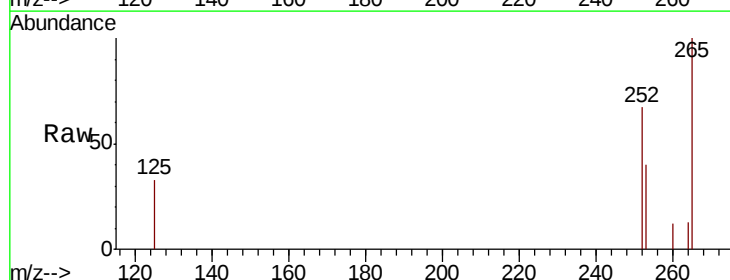
Tgt Ion:252 Resp: 275

Ion Ratio Lower Upper

252 100

253 59.6 24.7 37.1#

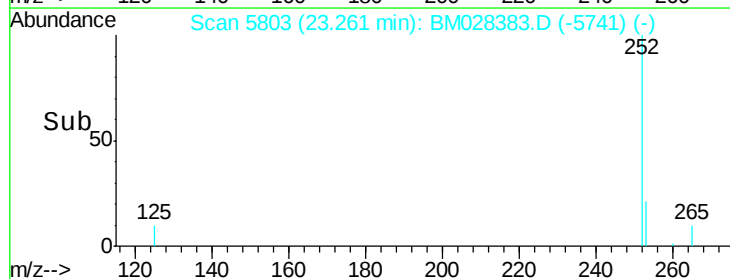
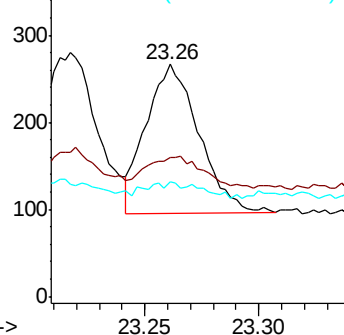
125 49.4 17.3 25.9#

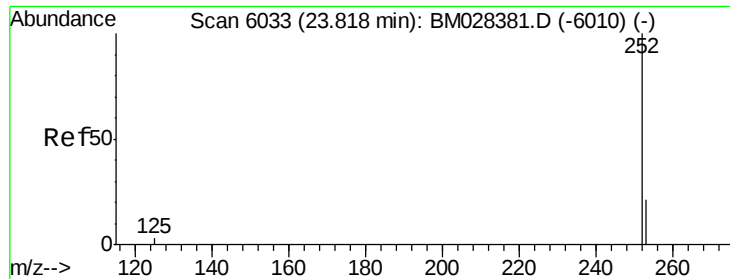


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 0.074 ng/u1

RT: 23.82 min Scan# 6032

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-QT1-2021-02

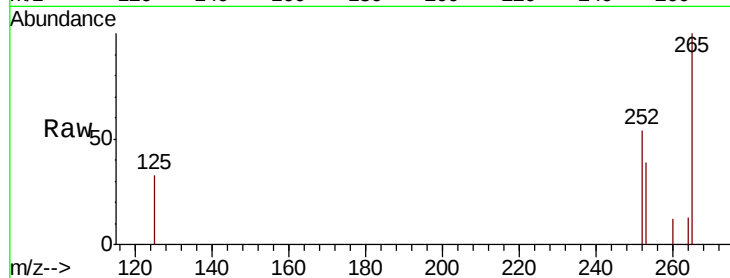
Tot Ion:252 Resp: 246

Ion Ratio Lower Upper

252 100

253 72.1 28.0 42.0#

125 60.7 20.6 30.8#

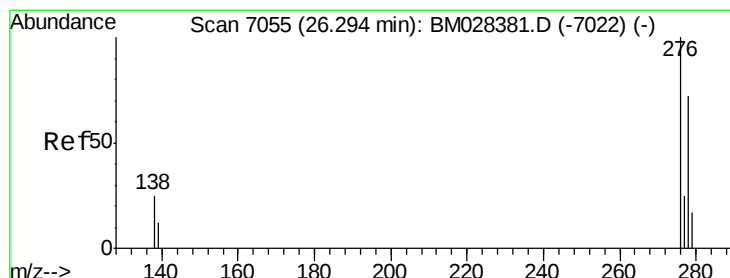
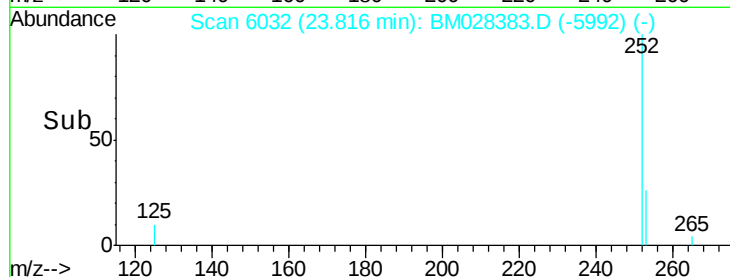


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.071 ng/u1

RT: 26.30 min Scan# 7056

Delta R.T. -0.00 min

Lab File: BM028383.D

Acq: 13 Jan 2021 10:50

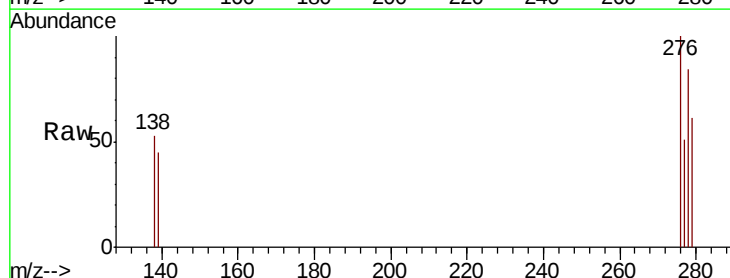
Tgt Ion:276 Resp: 311

Ion Ratio Lower Upper

276 100

138 24.8 21.9 32.9

227 0.0 0.0 0.0

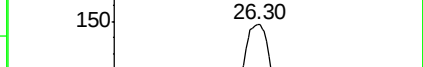
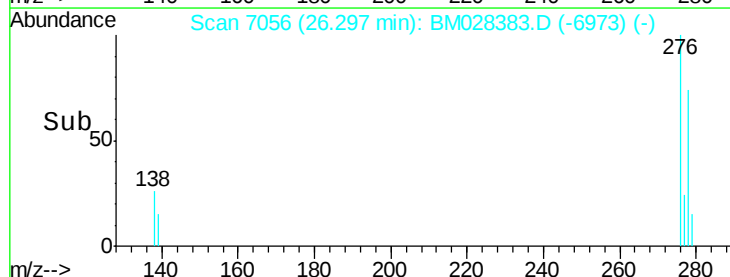


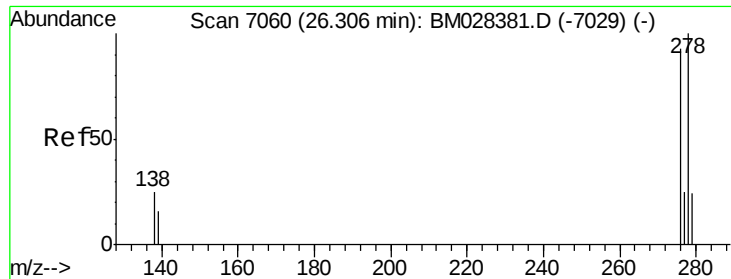
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

Time-->

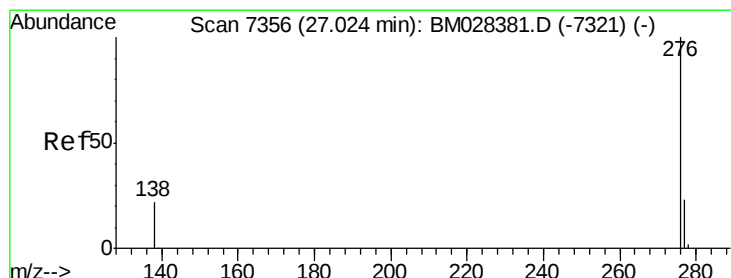
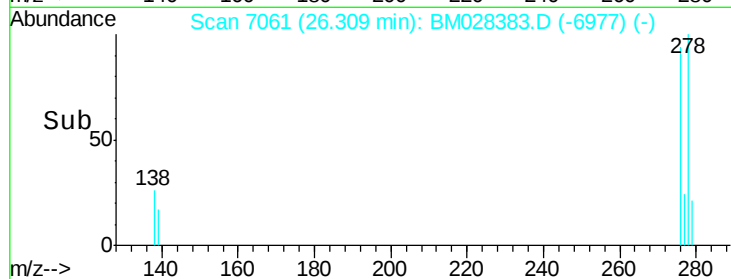
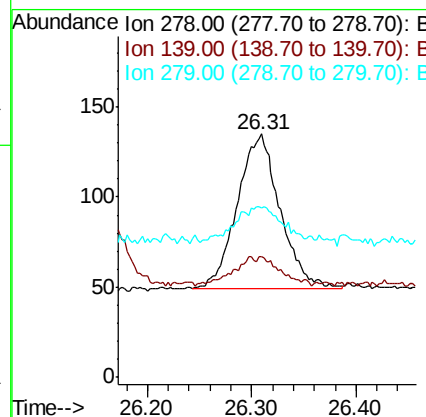
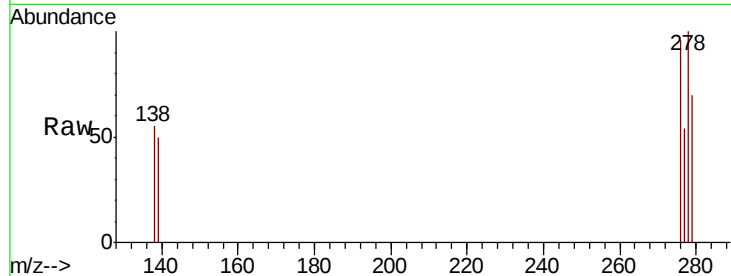




#28
Dibenzo(a,h)anthracene
Concen: 0.068 ng/ul
RT: 26.31 min Scan# 7061
Delta R.T. 0.00 min
Lab File: BM028383.D
Acq: 13 Jan 2021 10:50

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-QT1-2021-02

Tot Ion:278 Resp: 248
Ion Ratio Lower Upper
278 100
139 49.6 20.3 30.5#
279 69.6 27.5 41.3#



#29
Benzo(g,h,i)perylene
Concen: 0.069 ng/ul
RT: 27.03 min Scan# 7359
Delta R.T. 0.00 min
Lab File: BM028383.D
Acq: 13 Jan 2021 10:50

Tgt Ion:276 Resp: 270
Ion Ratio Lower Upper
276 100
138 52.2 24.7 37.1#
277 52.9 23.8 35.6#

