

Data File : VX019633.D
Acq On : 25 Nov 2020 02:46
Operator : JC/MD
Sample : L4835-17
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MH-117T-20201119

Quant Time: Nov 25 04:12:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	311882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	509767	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	466465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	192305	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	192429	47.59	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.18%		
35) Dibromofluoromethane	5.46	113	151453	47.33	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.66%		
50) Toluene-d8	8.70	98	619087	49.79	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.58%		
62) 4-Bromofluorobenzene	11.12	95	216228	48.33	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	96.66%		

Target Compounds

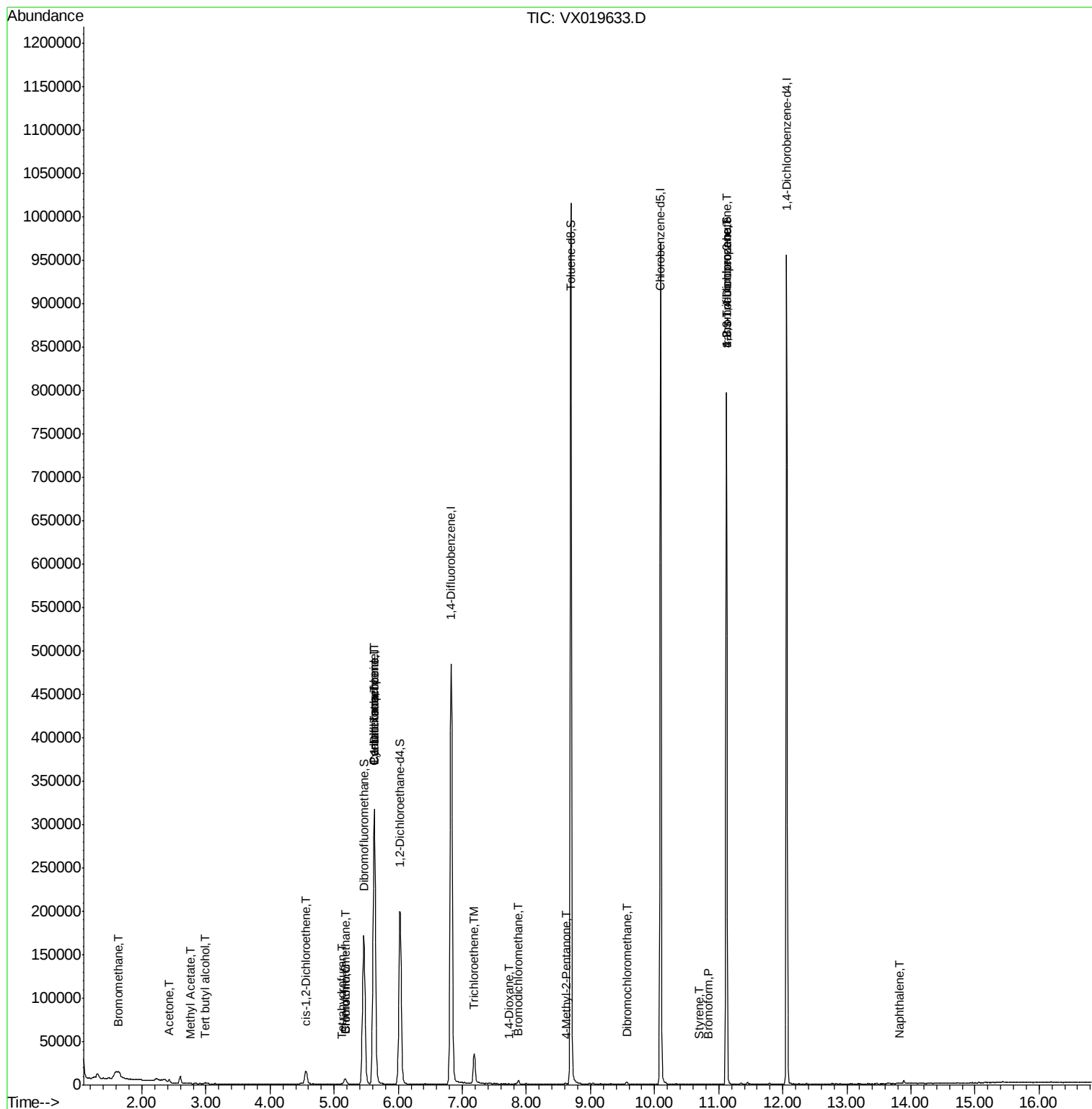
					Qvalue	
5) Bromomethane	1.62	94	834	0.588	ug/l #	54
6) Chloroethane	1.68	64	485	Below Cal	#	52
11) Tert butyl alcohol	2.99	59	1284	1.678	ug/l #	73
16) Acetone	2.42	43	3372	2.156	ug/l	95
18) Methyl Acetate	2.75	43	392	0.735	ug/l #	85
27) cis-1,2-Dichloroethene	4.56	96	9884	2.453	ug/l	98
28) Bromochloromethane	5.18	49	634	0.216	ug/l #	8
29) Tetrahydrofuran	5.12	42	333	0.222	ug/l #	27
30) Chloroform	5.17	83	7617	1.187	ug/l	88
31) Cyclohexane	5.62	56	6173	1.174	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23228	4.860	ug/l #	50
38) Carbon Tetrachloride	5.62	117	30602	6.616	ug/l #	17
44) Trichloroethene	7.18	130	12460	3.240	ug/l	87
47) Bromodichloromethane	7.87	83	2614	0.544	ug/l #	95
49) 1,4-Dioxane	7.72	88	50	0.623	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	1027	0.234	ug/l #	32
60) Dibromochloromethane	9.56	129	1109	0.309	ug/l	88
70) Styrene	10.70	104	82	1.653	ug/l #	26
71) Bromoform	10.84	173	177	3.658	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	104486	24.897	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	104486	65.785	ug/l #	12
95) Naphthalene	13.82	128	766	2.230	ug/l #	94

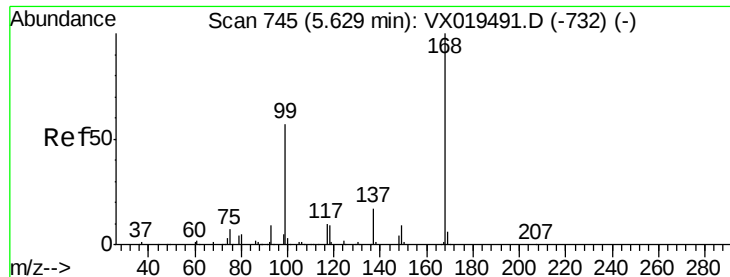
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

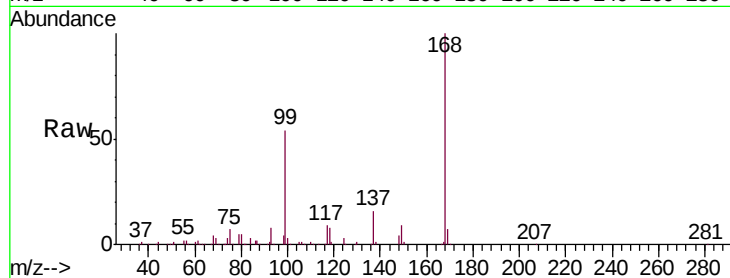
MH-117T-20201119

Tgt Ion:168 Resp: 311882

Ion Ratio Lower Upper

168 100

99 53.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

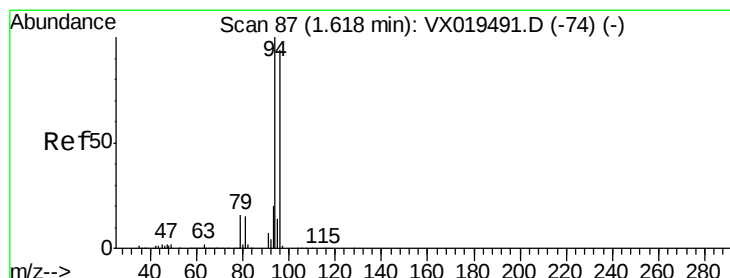
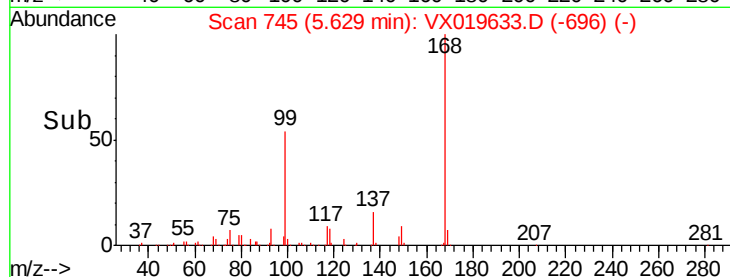
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.588 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019633.D

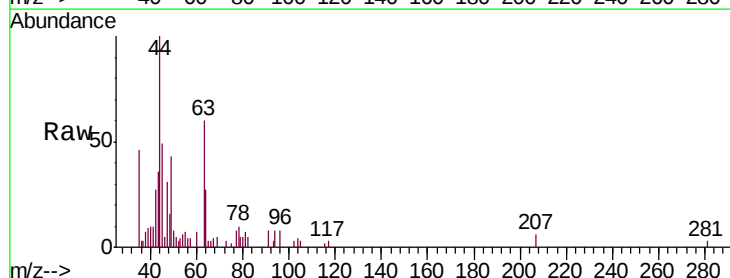
Acq: 25 Nov 2020 02:46

Tgt Ion: 94 Resp: 834

Ion Ratio Lower Upper

94 100

96 50.3 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

200

150

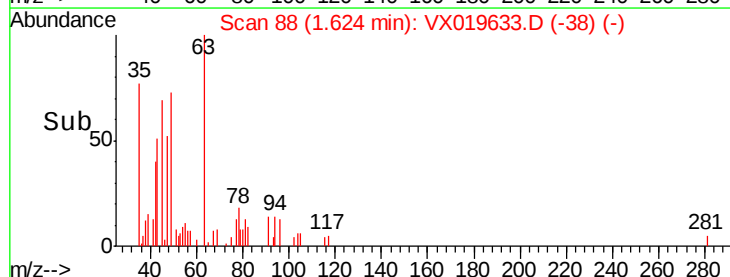
100

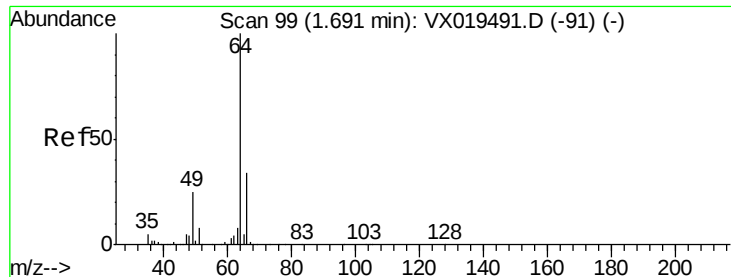
50

0

Time-->

1.50 1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 98

Delta R.T. -0.01 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

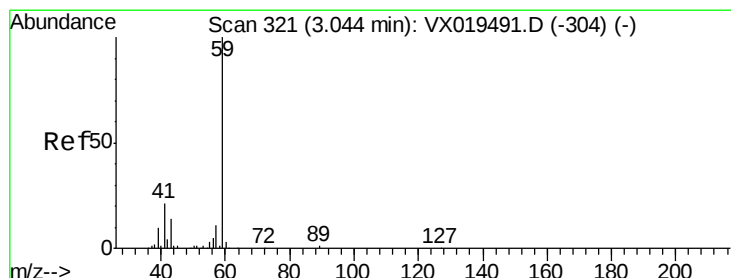
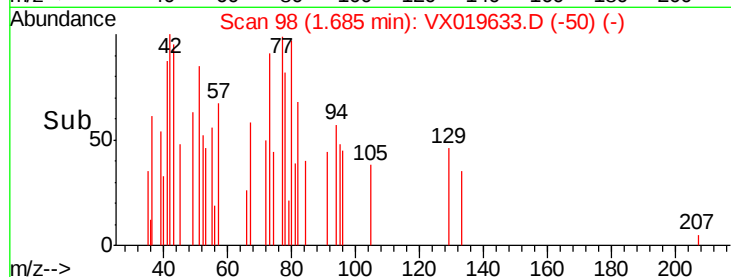
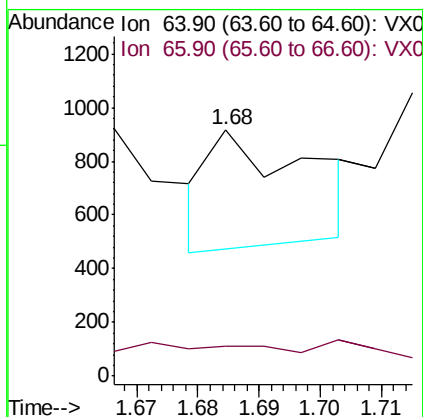
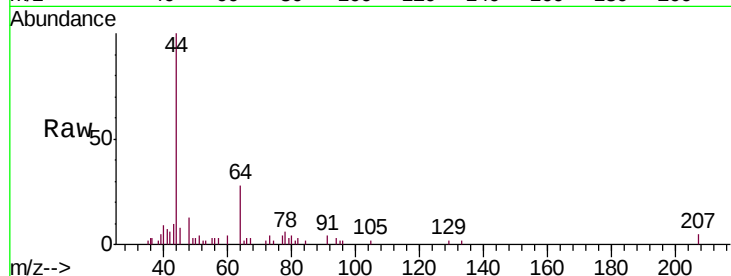
MH-117T-20201119

Tgt Ion: 64 Resp: 485

Ion Ratio Lower Upper

64 100

66 6.5 27.1 40.7#



#11

Tert butyl alcohol

Concen: 1.678 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019633.D

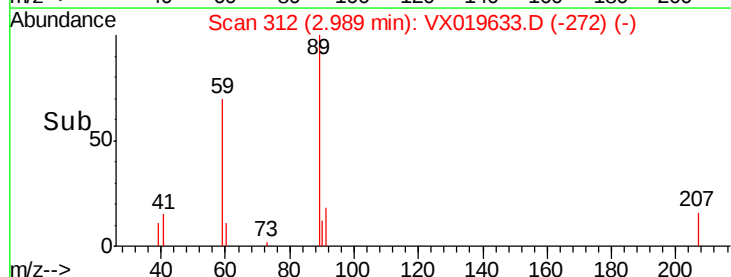
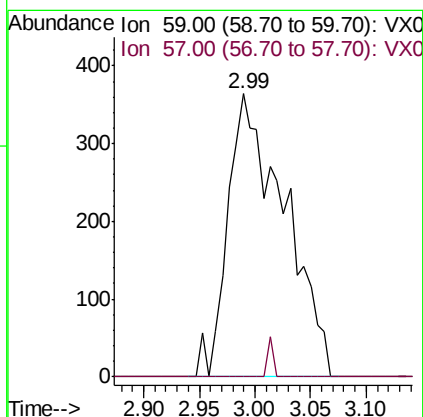
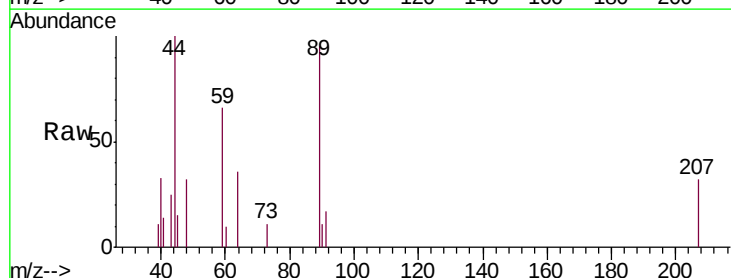
Acq: 25 Nov 2020 02:46

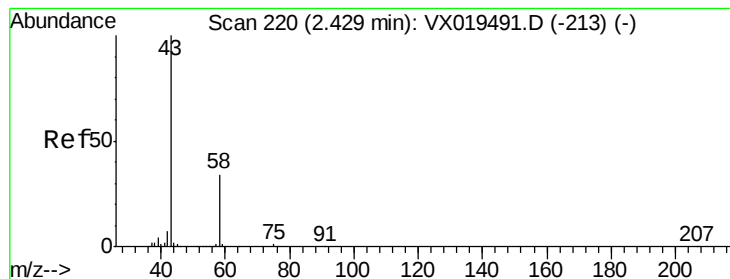
Tgt Ion: 59 Resp: 1284

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#16

Acetone

Concen: 2.156 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

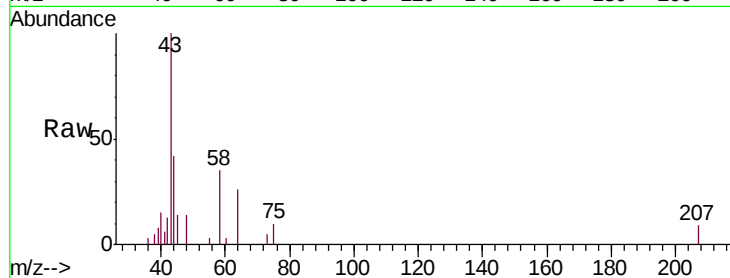
MH-117T-20201119

Tgt Ion: 43 Resp: 3372

Ion Ratio Lower Upper

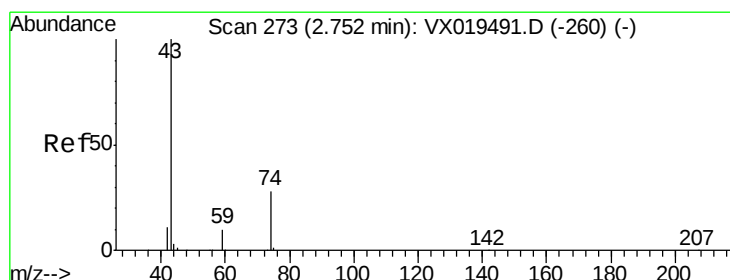
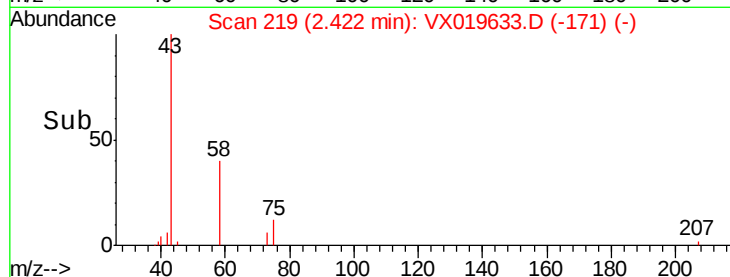
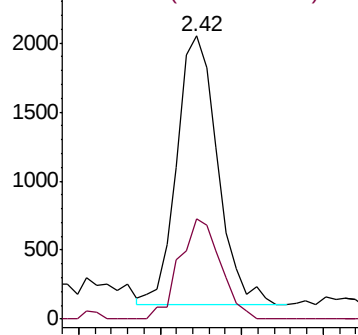
43 100

58 37.2 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.735 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019633.D

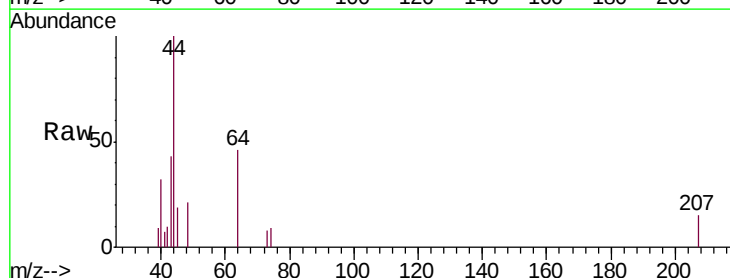
Acq: 25 Nov 2020 02:46

Tgt Ion: 43 Resp: 392

Ion Ratio Lower Upper

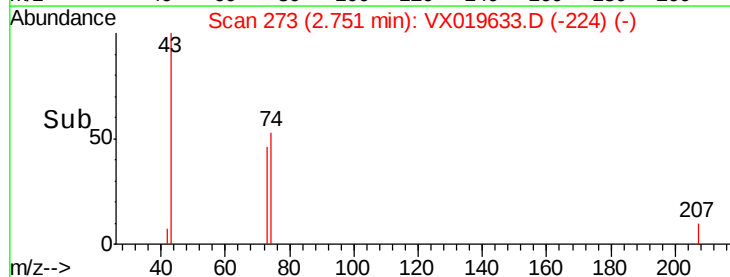
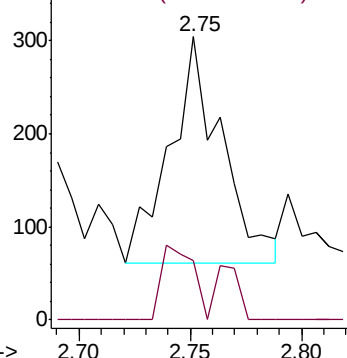
43 100

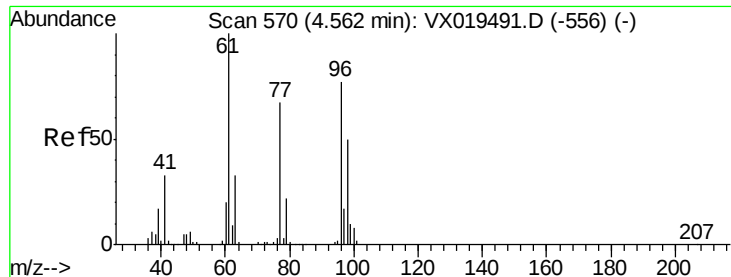
74 20.2 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 2.453 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

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ClientSampleId :

MH-117T-20201119

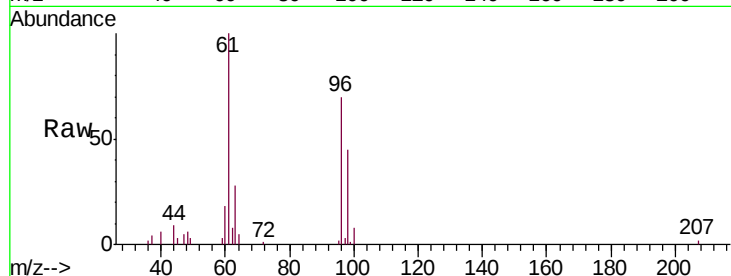
Tgt Ion: 96 Resp: 9884

Ion Ratio Lower Upper

96 100

61 143.2 0.0 279.2

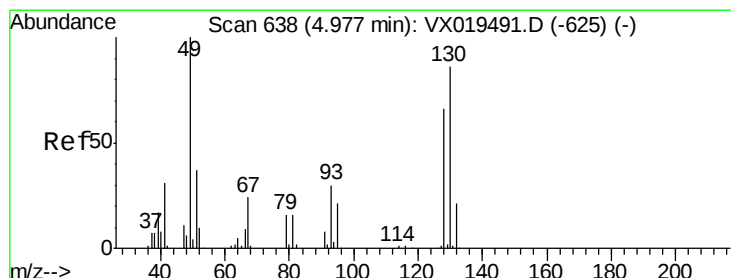
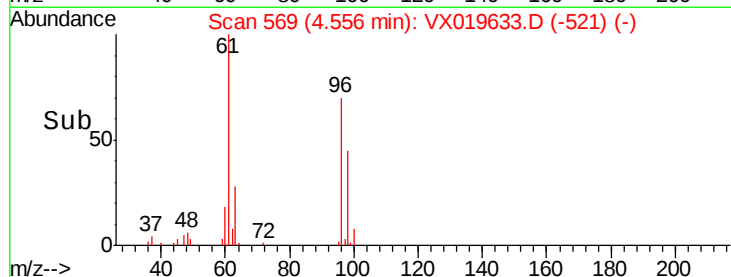
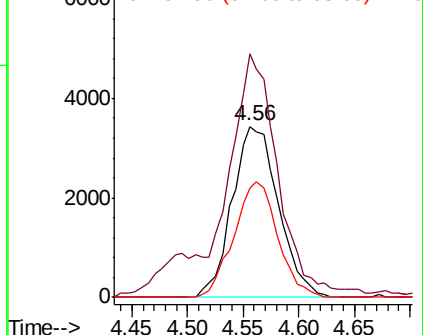
98 64.2 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: 0.216 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.20 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

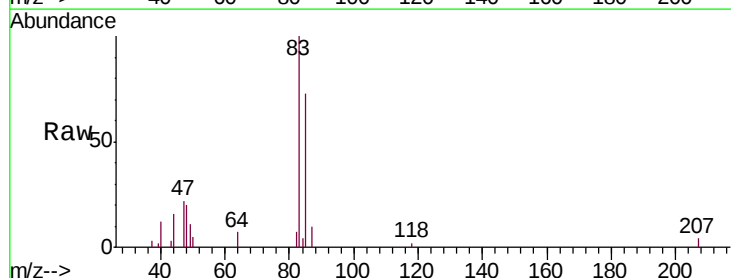
Tgt Ion: 49 Resp: 634

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

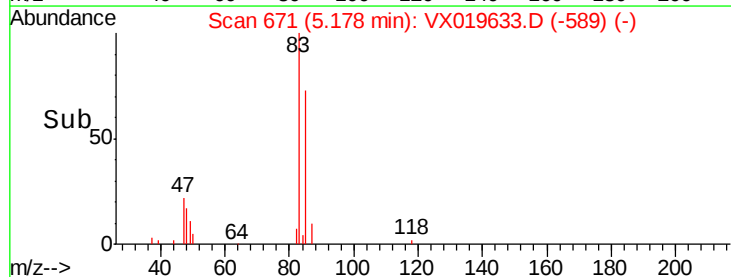
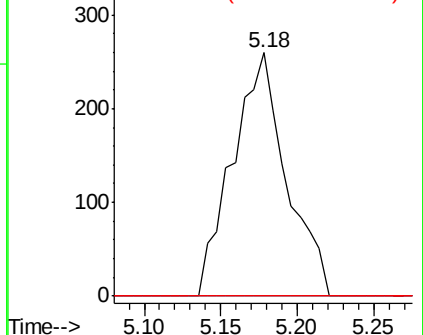
130 0.0 69.0 103.6#

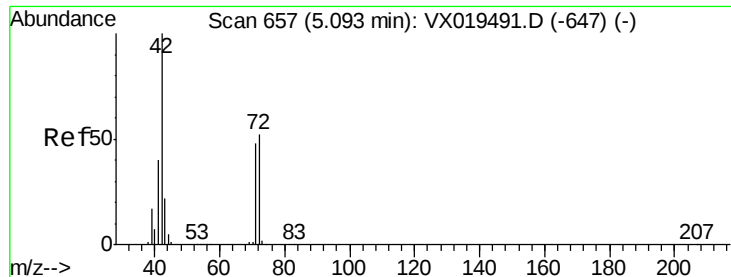


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.222 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

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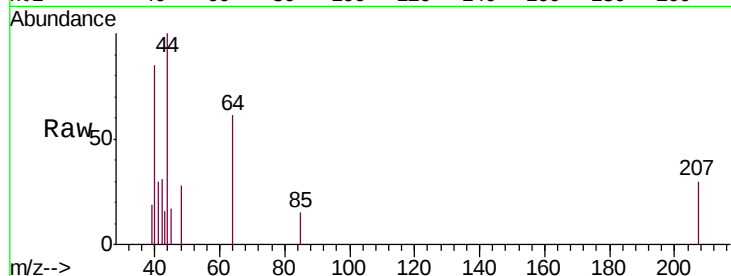
Tgt Ion: 42 Resp: 333

Ion Ratio Lower Upper

42 100

72 0.0 42.6 63.8#

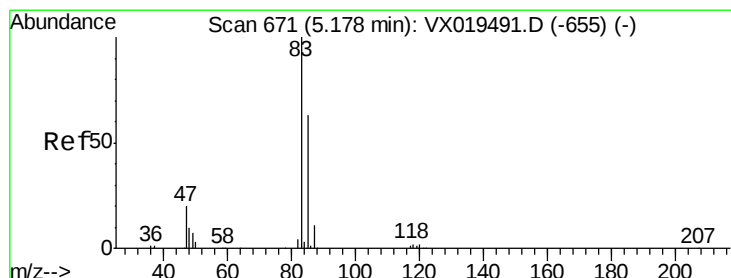
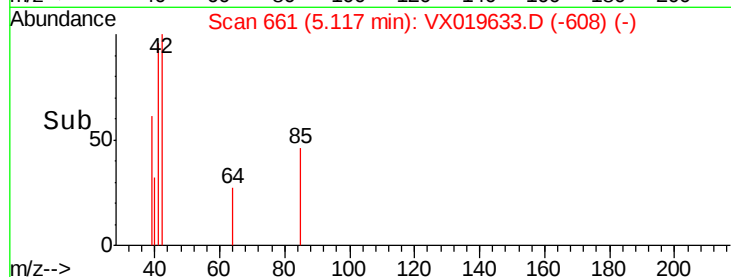
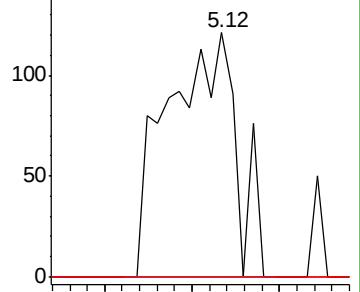
71 0.0 39.0 58.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 1.187 ug/l

RT: 5.17 min Scan# 670

Delta R.T. -0.01 min

Lab File: VX019633.D

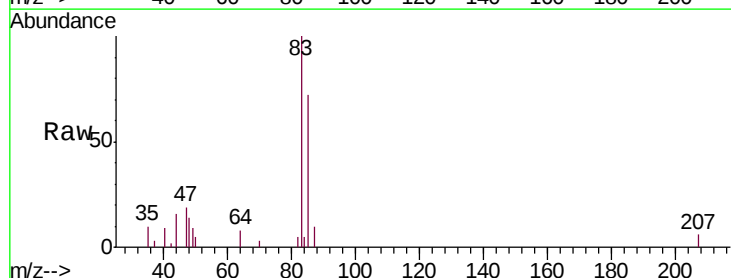
Acq: 25 Nov 2020 02:46

Tgt Ion: 83 Resp: 7617

Ion Ratio Lower Upper

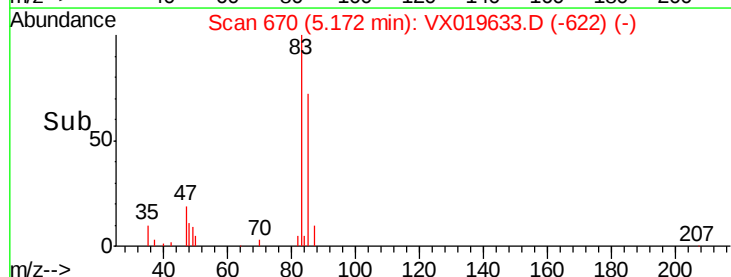
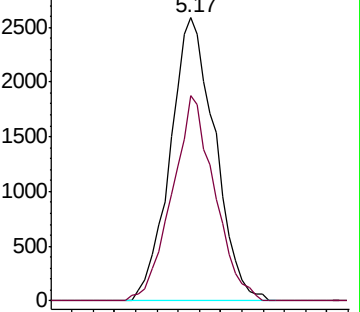
83 100

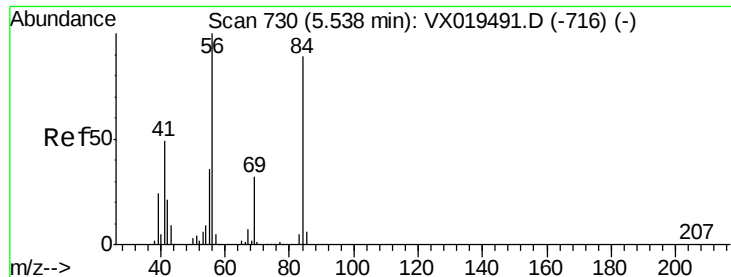
85 72.4 50.5 75.7



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

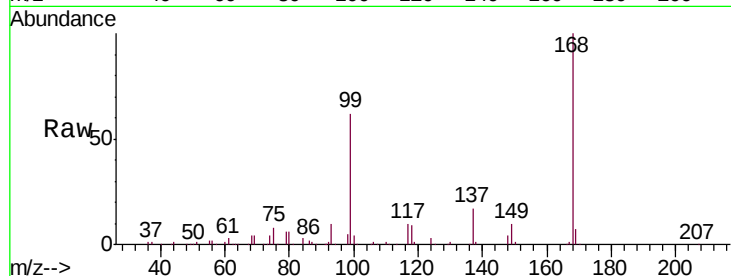




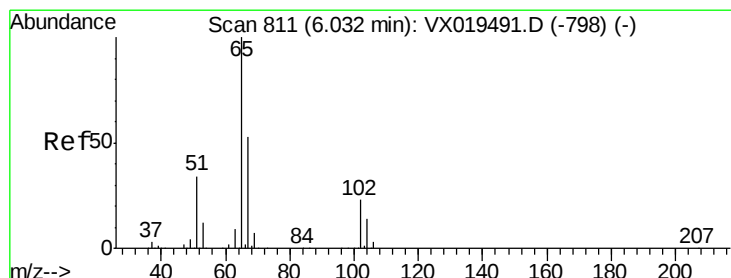
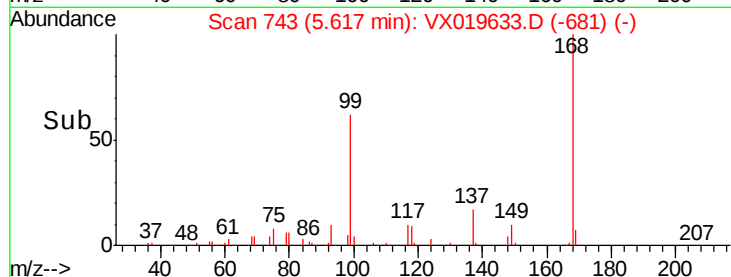
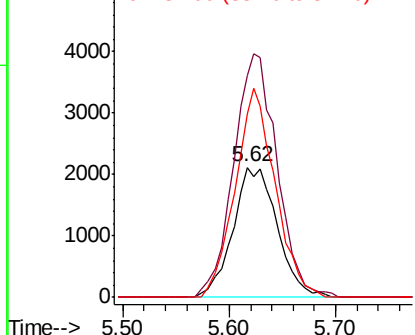
#31
Cyclohexane
Concen: 1.174 ug/l
RT: 5.62 min Scan# 743
Delta R.T. 0.08 min
Lab File: VX019633.D
Acq: 25 Nov 2020 02:46

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Tgt Ion: 56 Resp: 6173
Ion Ratio Lower Upper
56 100
69 170.9 25.5 38.3#
84 141.3 71.1 106.7#

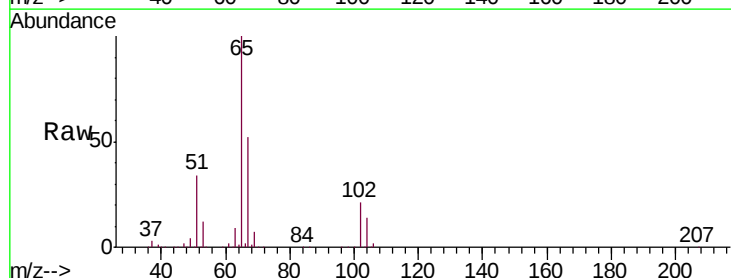


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

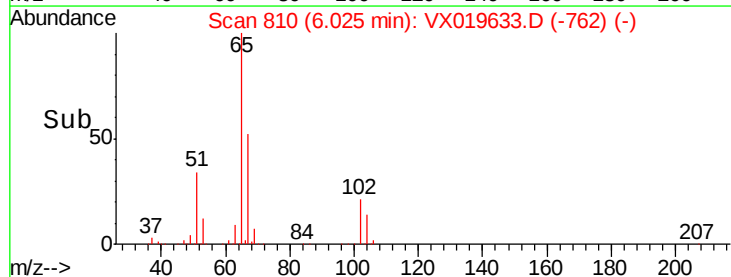
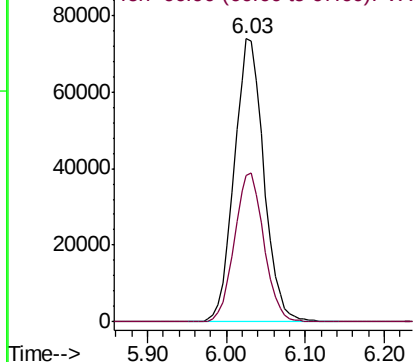


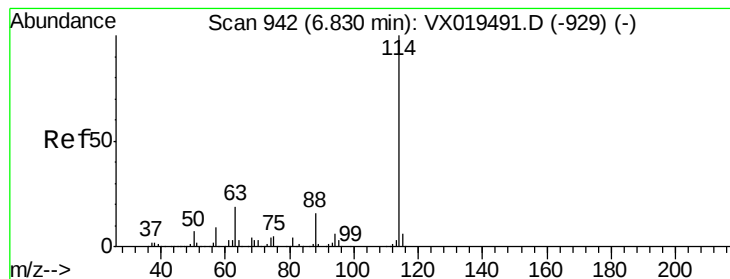
#33
1,2-Dichloroethane-d4
Concen: 47.586 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.01 min
Lab File: VX019633.D
Acq: 25 Nov 2020 02:46

Tgt Ion: 65 Resp: 192429
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.82 min Scan# 941

Delta R.T. -0.01 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

MH-117T-20201119

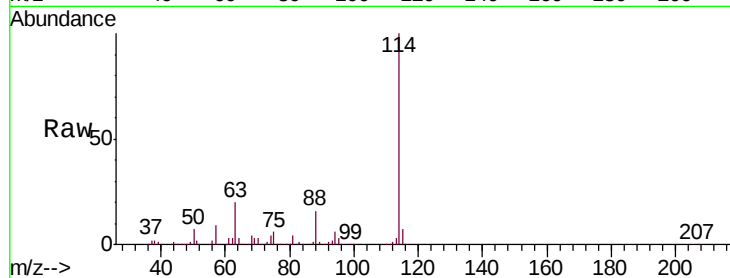
Tgt Ion:114 Resp: 509767

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.8

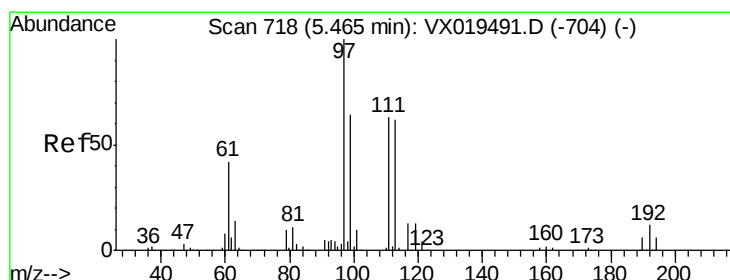
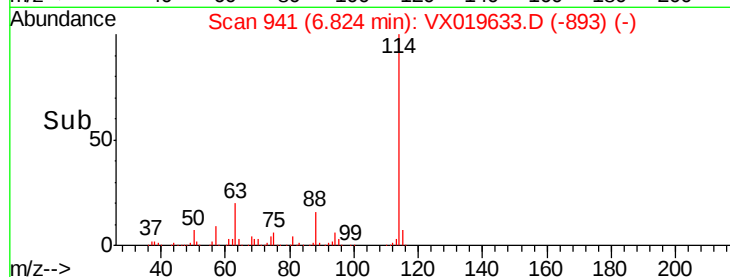
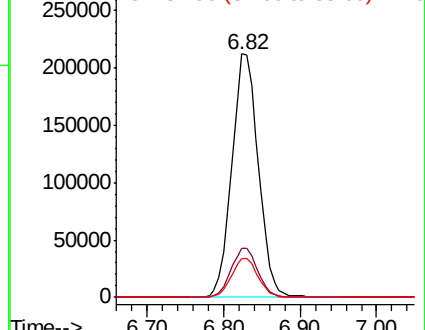
88 16.1 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.332 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

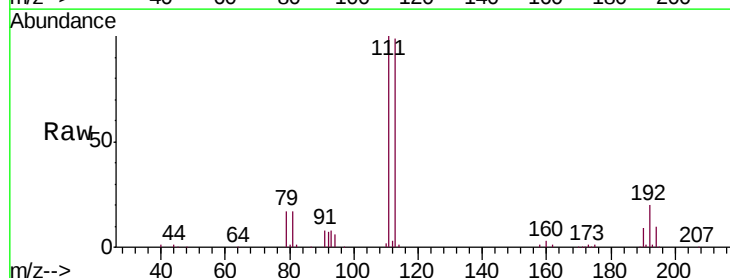
Tgt Ion:113 Resp: 151453

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

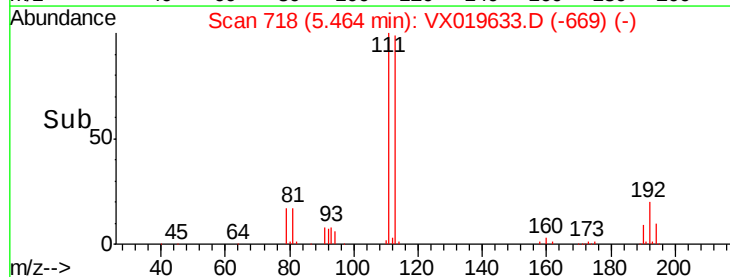
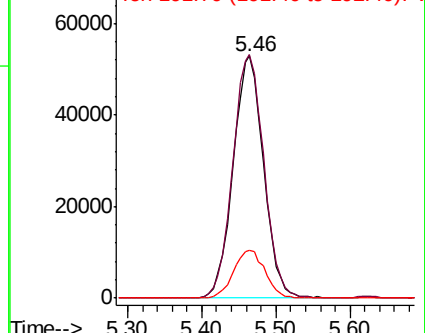
192 20.4 16.2 24.2

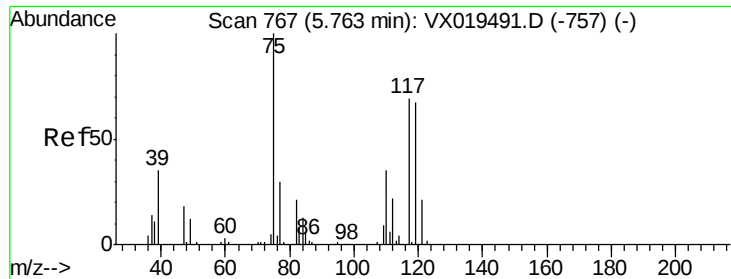


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

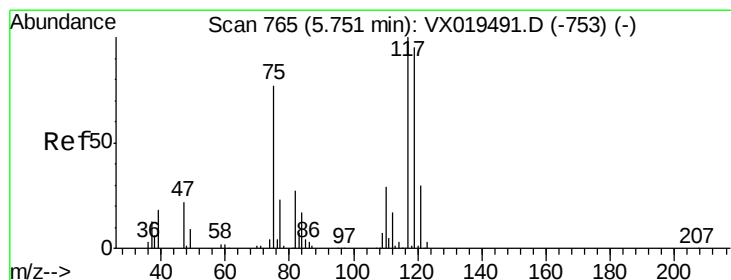
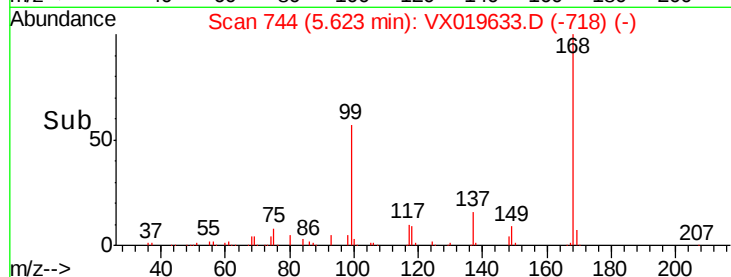
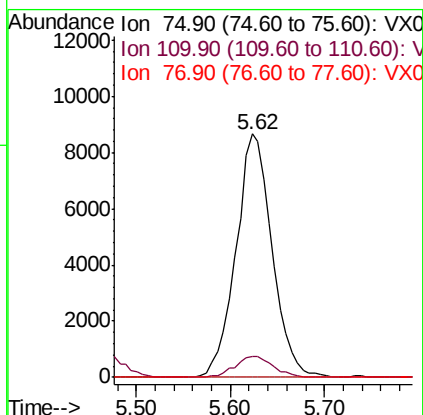
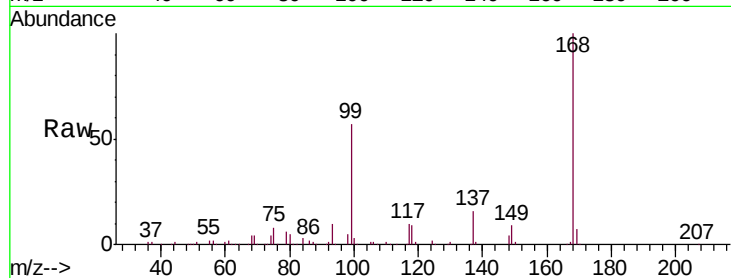




#36
 1,1-Dichloropropene
 Concen: 4.860 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019633.D
 Acq: 25 Nov 2020 02:46

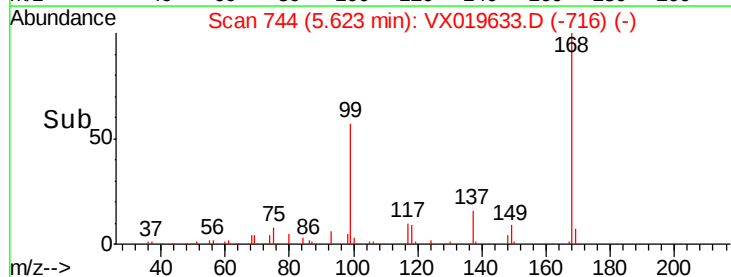
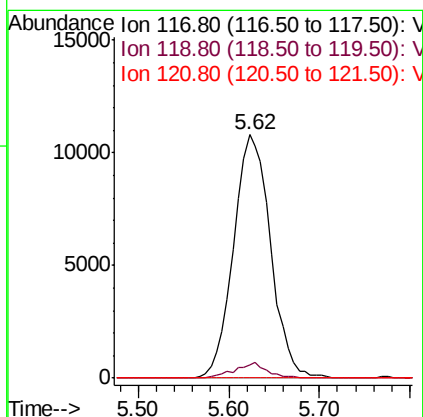
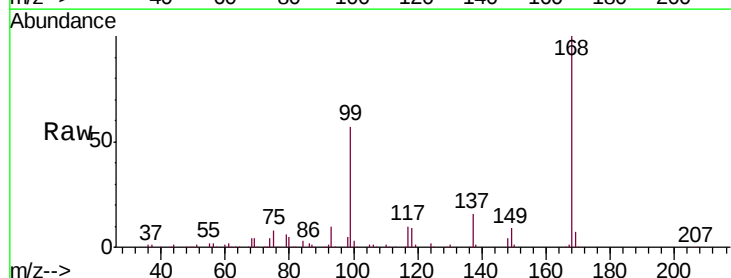
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-117T-20201119

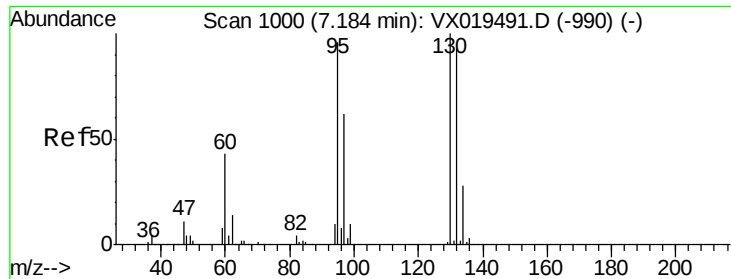
Tgt Ion: 75 Resp: 23228
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.616 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019633.D
 Acq: 25 Nov 2020 02:46

Tgt Ion: 117 Resp: 30602
 Ion Ratio Lower Upper
 117 100
 119 5.3 75.9 113.9#
 121 0.0 24.0 36.0#

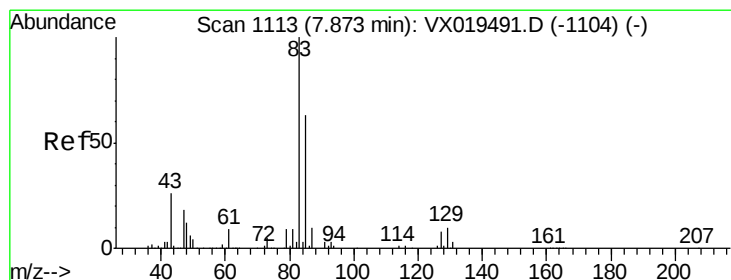
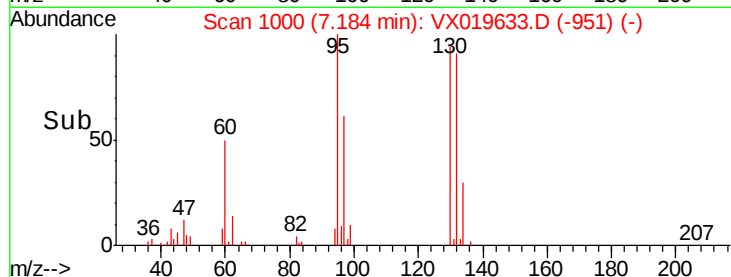
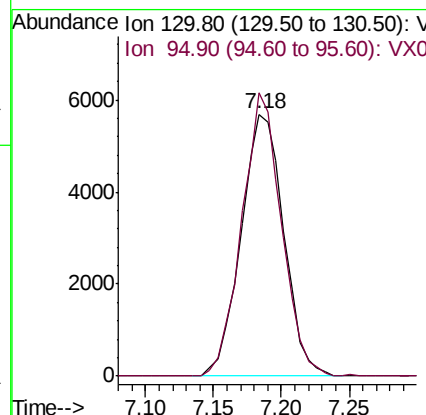
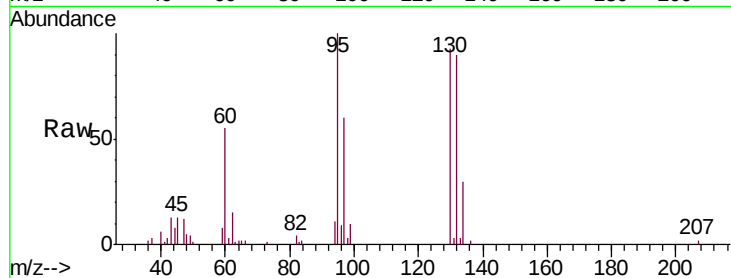




#44
 Trichloroethene
 Concen: 3.240 ug/l
 RT: 7.18 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: VX019633.D
 Acq: 25 Nov 2020 02:46

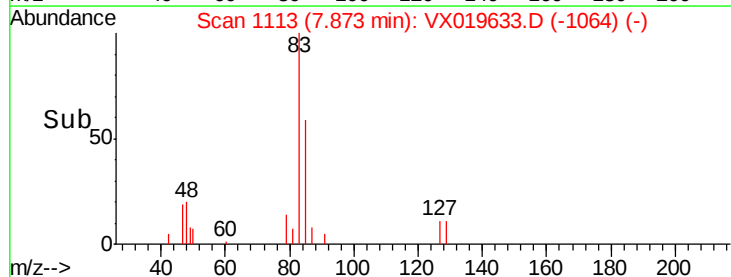
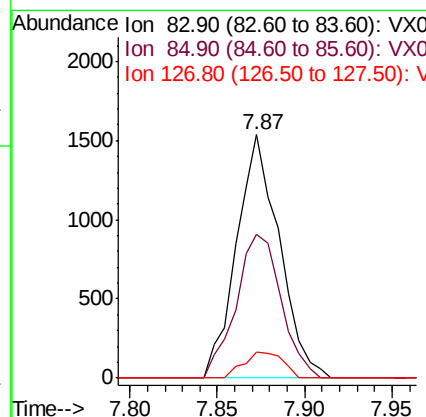
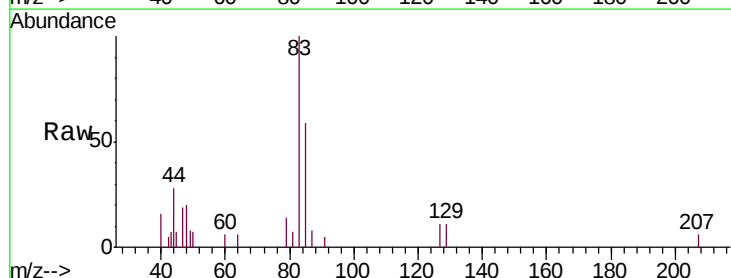
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-117T-20201119

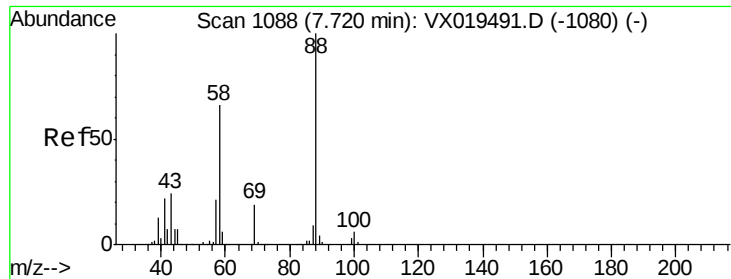
Tgt Ion: 130 Resp: 12460
 Ion Ratio Lower Upper
 130 100
 95 108.1 0.0 191.2



#47
 Bromodichloromethane
 Concen: 0.544 ug/l
 RT: 7.87 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VX019633.D
 Acq: 25 Nov 2020 02:46

Tgt Ion: 83 Resp: 2614
 Ion Ratio Lower Upper
 83 100
 85 59.2 50.2 75.2
 127 10.7 6.4 9.6#

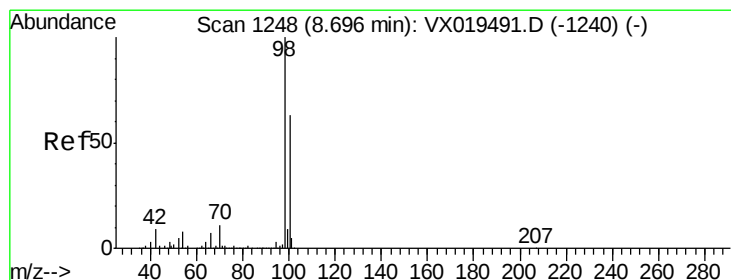
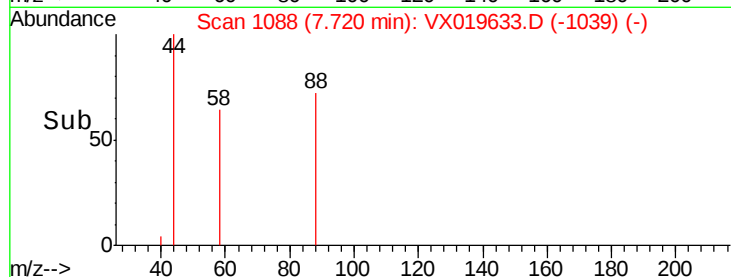
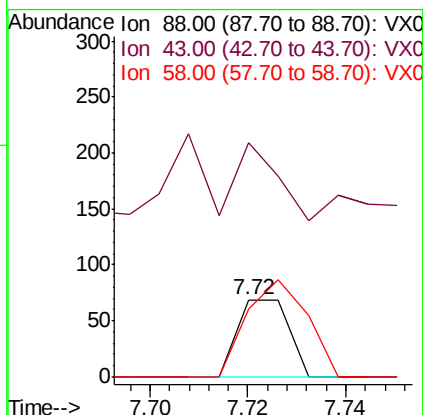
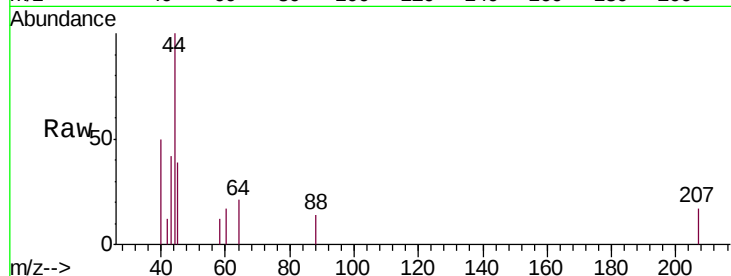




#49
1,4-Dioxane
Concen: 0.623 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VX019633.D
Acq: 25 Nov 2020 02:46

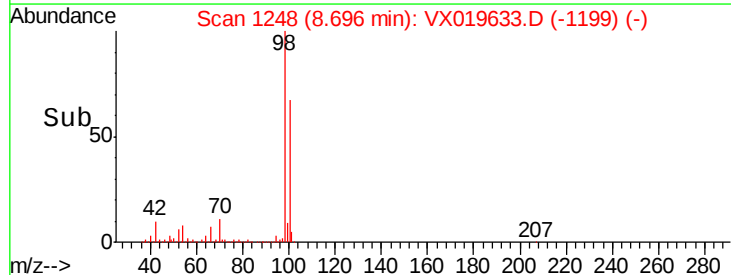
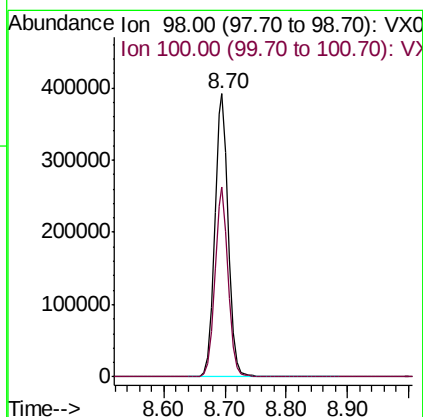
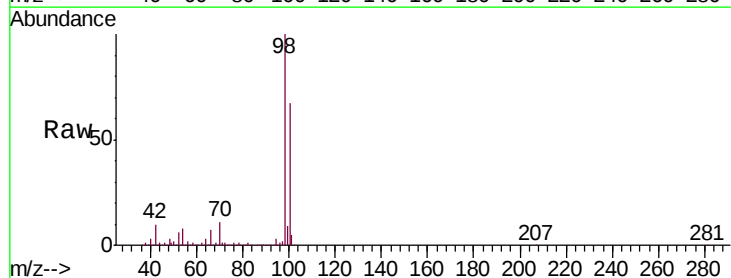
Instrument :
MSVOA_X
ClientSampleId :
MH-117T-20201119

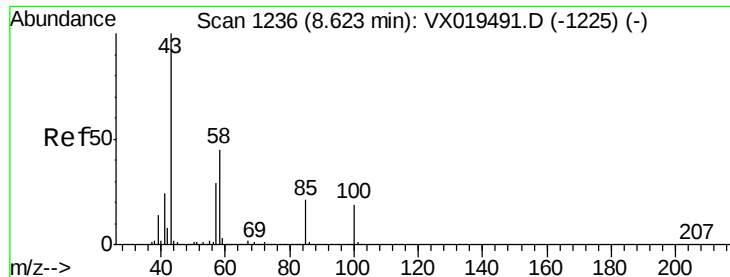
Tgt Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 198.0 23.8 35.6#
58 148.0 54.2 81.2#



#50
Toluene-d8
Concen: 49.789 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019633.D
Acq: 25 Nov 2020 02:46

Tgt Ion: 98 Resp: 619087
Ion Ratio Lower Upper
98 100
100 65.8 52.4 78.6

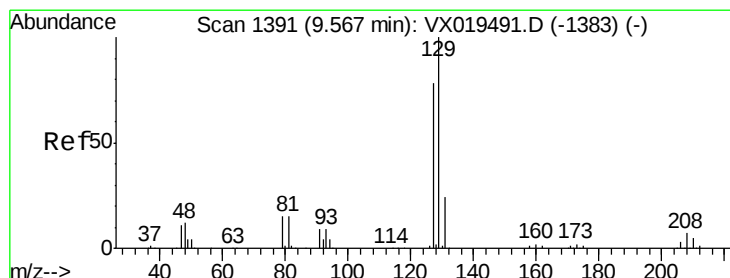
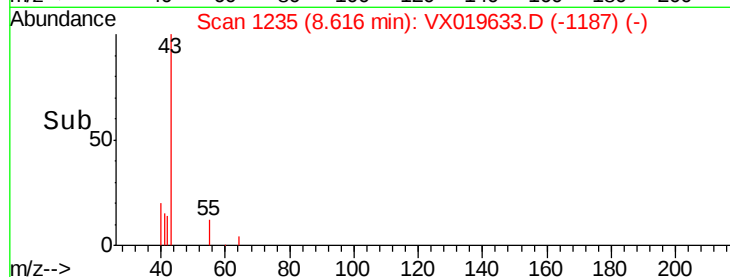
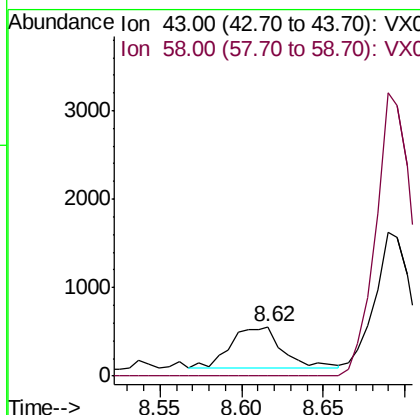
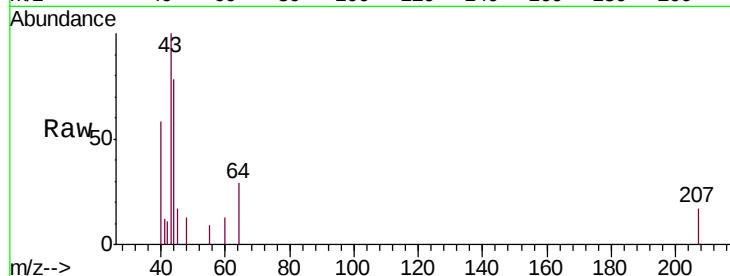




#51
 4-Methyl-2-Pentanone
 Concen: 0.234 ug/l
 RT: 8.62 min Scan# 1235
 Delta R.T. -0.01 min
 Lab File: VX019633.D
 Acq: 25 Nov 2020 02:46

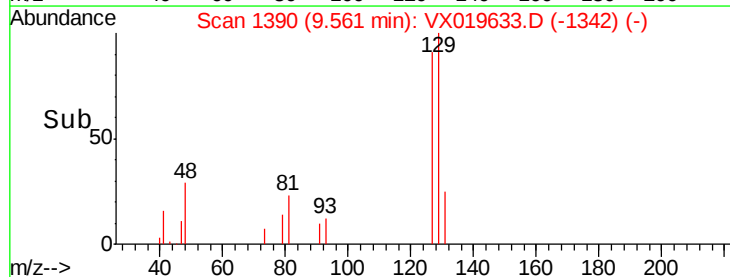
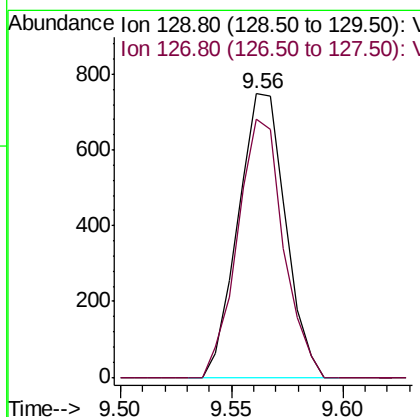
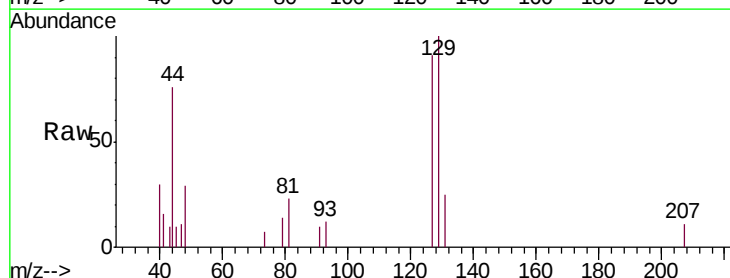
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-117T-20201119

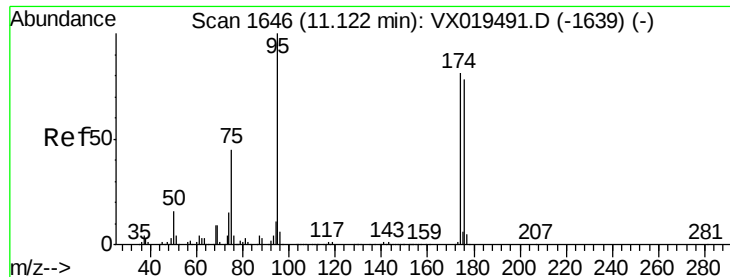
Tgt Ion: 43 Resp: 1027
 Ion Ratio Lower Upper
 43 100
 58 0.0 35.1 52.7#



#60
 Dibromochloromethane
 Concen: 0.309 ug/l
 RT: 9.56 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VX019633.D
 Acq: 25 Nov 2020 02:46

Tgt Ion: 129 Resp: 1109
 Ion Ratio Lower Upper
 129 100
 127 88.5 39.0 116.9





#62

4-Bromofluorobenzene

Concen: 48.334 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

MH-117T-20201119

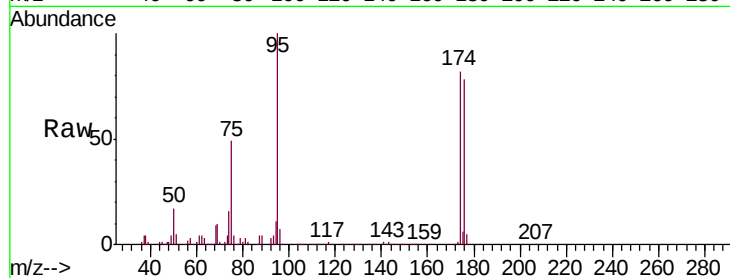
Tgt Ion: 95 Resp: 216228

Ion Ratio Lower Upper

95 100

174 77.9 0.0 156.2

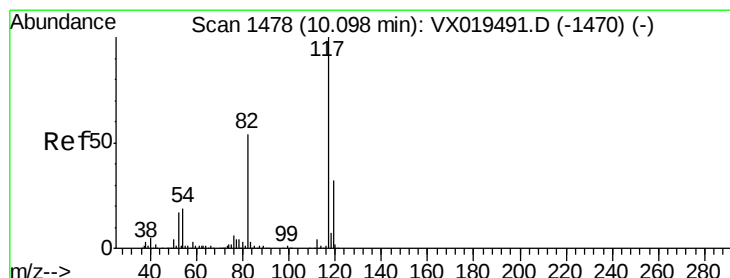
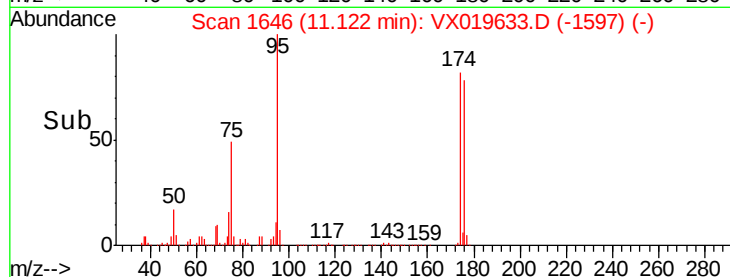
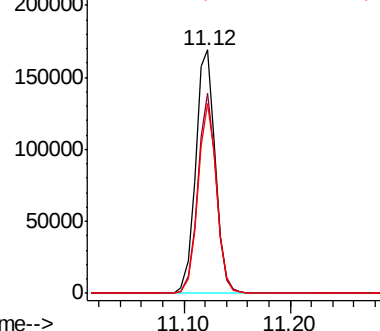
176 75.0 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

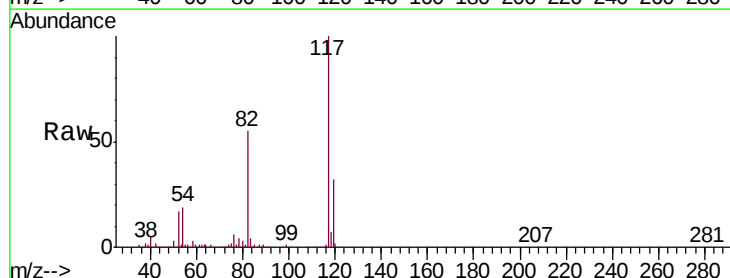
Tgt Ion: 117 Resp: 466465

Ion Ratio Lower Upper

117 100

82 54.6 43.0 64.4

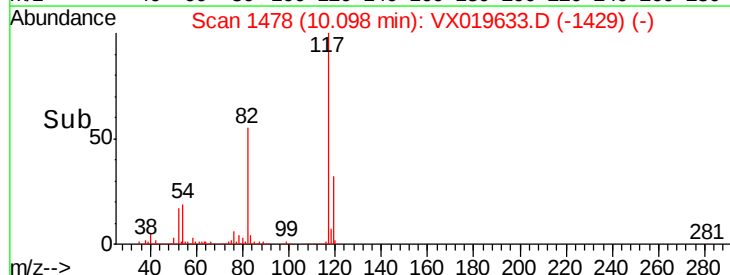
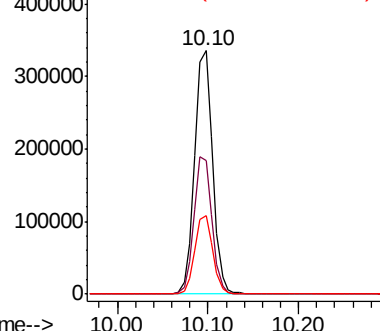
119 32.3 25.6 38.4

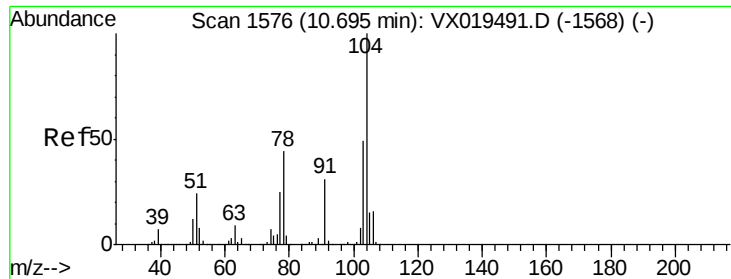


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#70

Styrene

Concen: 1.653 ug/l

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

MH-117T-20201119

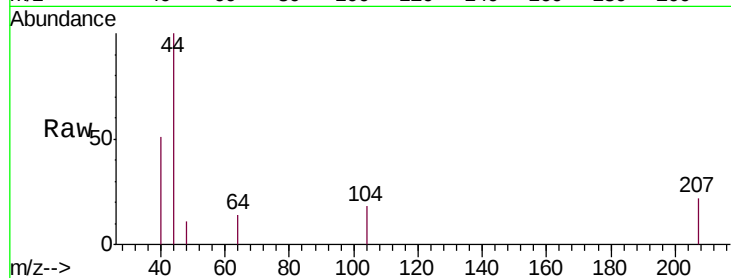
Tgt Ion:104 Resp: 82

Ion Ratio Lower Upper

104 100

78 0.0 39.5 59.3#

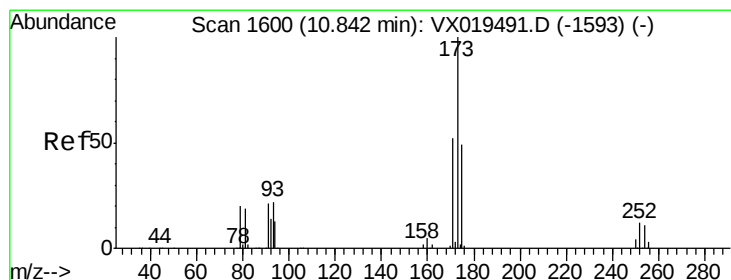
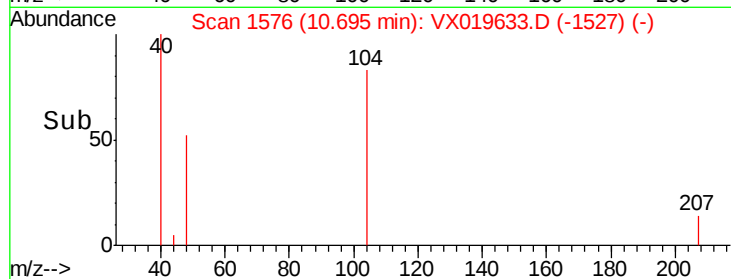
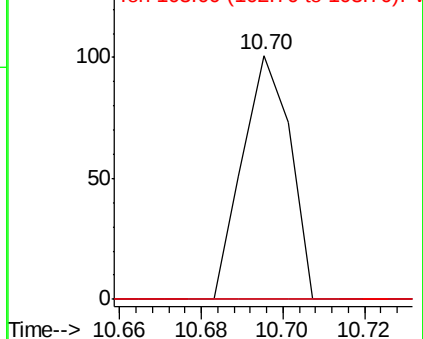
103 0.0 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 3.658 ug/l

RT: 10.84 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

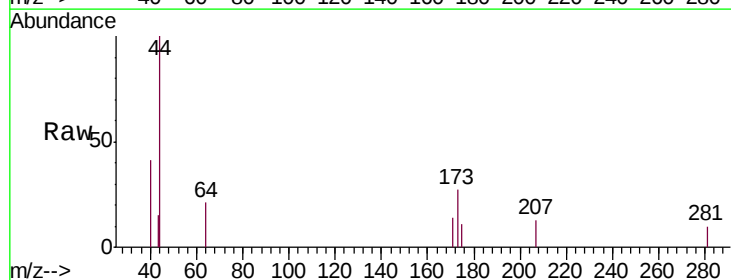
Tgt Ion:173 Resp: 177

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.8#

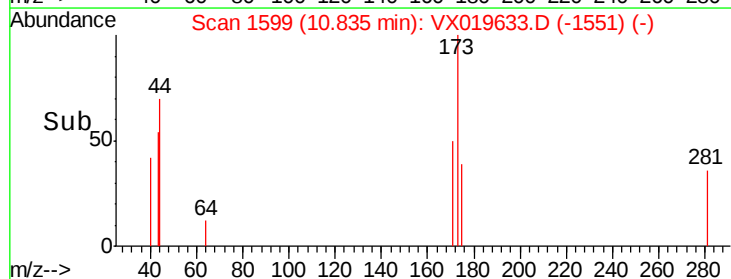
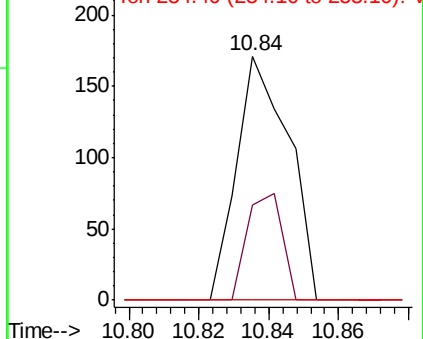
254 0.0 0.1 0.1#

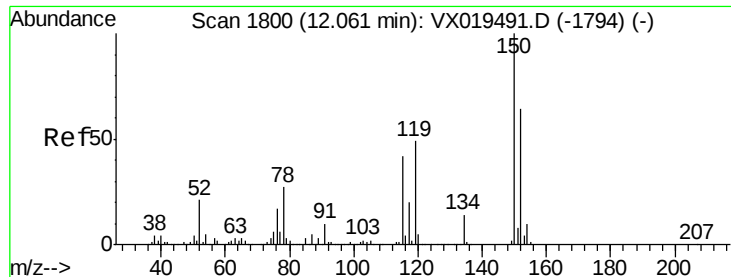


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

MH-117T-20201119

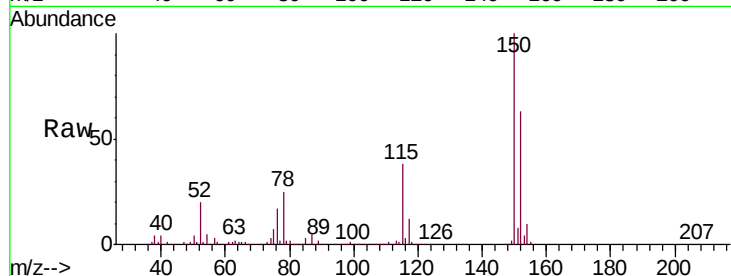
Tgt Ion:152 Resp: 192305

Ion Ratio Lower Upper

152 100

115 59.8 41.8 125.4

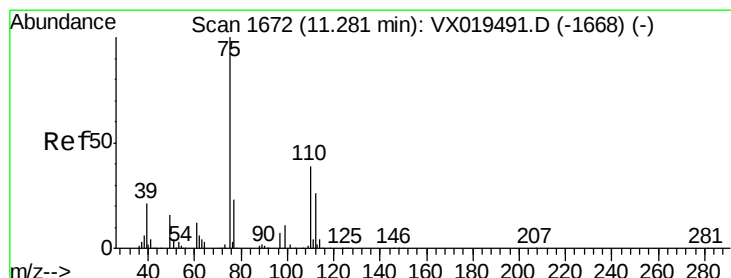
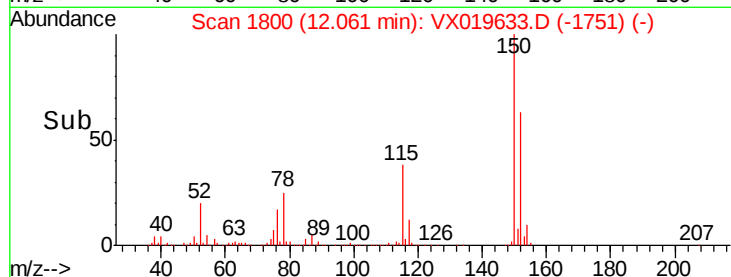
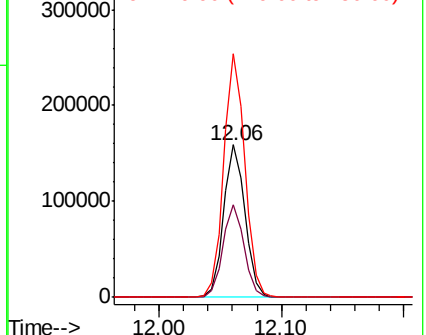
150 157.4 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.897 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019633.D

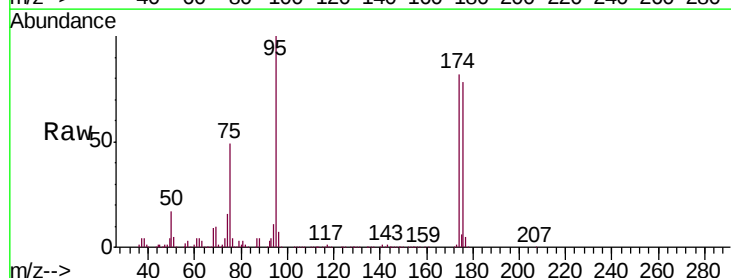
Acq: 25 Nov 2020 02:46

Tgt Ion: 75 Resp: 104486

Ion Ratio Lower Upper

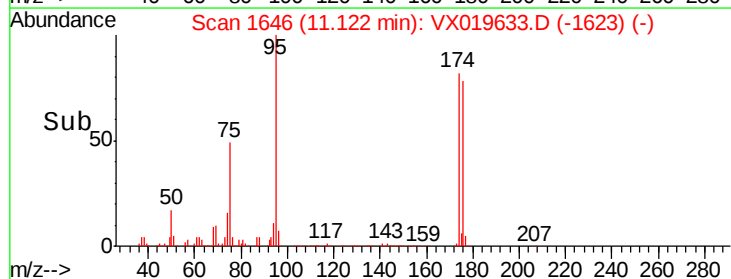
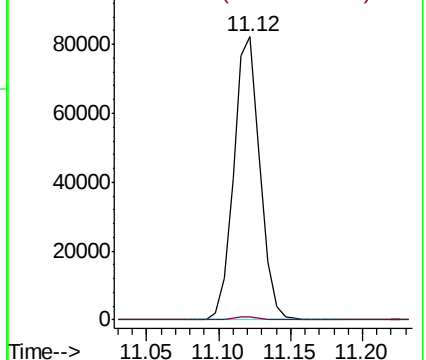
75 100

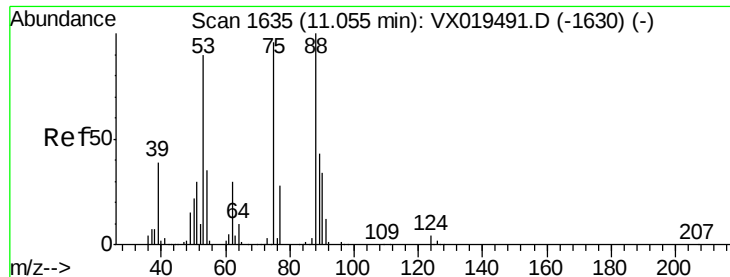
77 1.1 20.0 60.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.785 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

Instrument :

MSVOA_X

ClientSampleId :

MH-117T-20201119

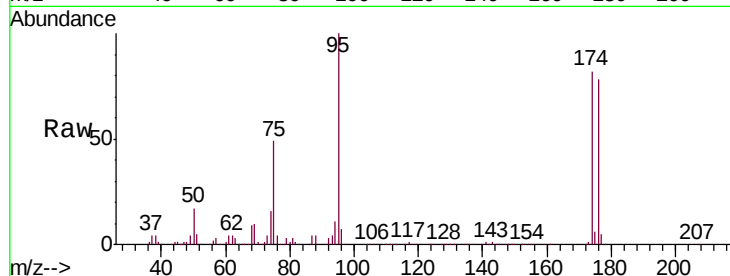
Tgt Ion: 75 Resp: 104486

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

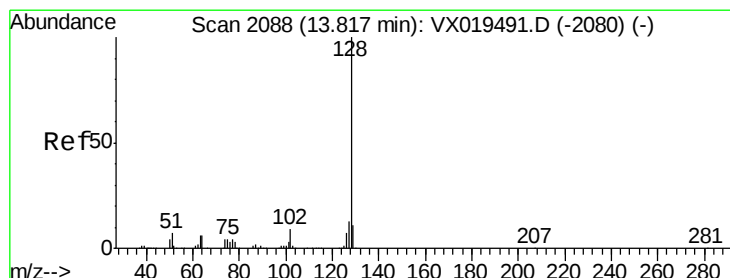
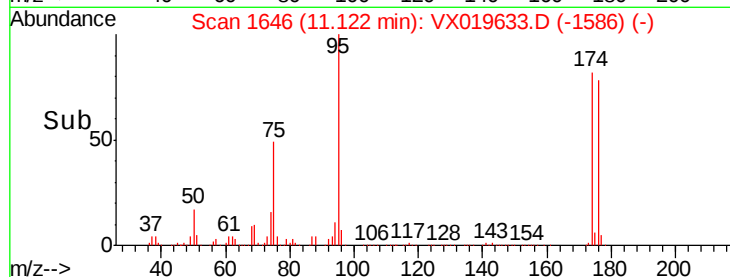
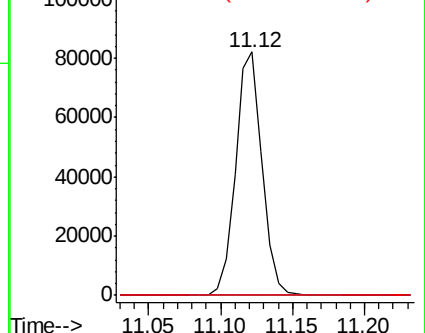
89 0.0 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 2.230 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019633.D

Acq: 25 Nov 2020 02:46

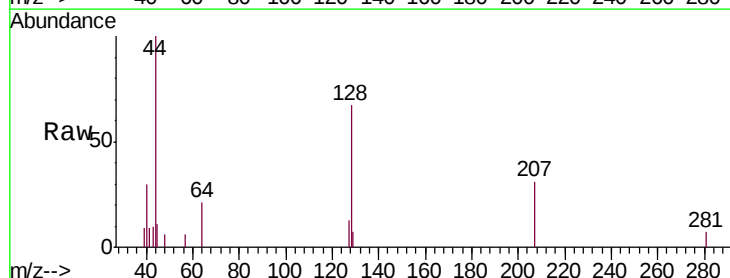
Tgt Ion: 128 Resp: 766

Ion Ratio Lower Upper

128 100

127 12.1 10.3 15.5

129 6.4 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

