

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
 Data File : VX019993.D
 Acq On : 14 Dec 2020 17:48
 Operator : JC/MD
 Sample : L4984-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-TOP

Quant Time: Dec 15 00:25:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	307106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	509676	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	474396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	205979	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	198007	49.06	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.12%
35) Dibromofluoromethane	5.46	113	159190	48.33	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.66%
50) Toluene-d8	8.70	98	631304	50.20	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.40%
62) 4-Bromofluorobenzene	11.12	95	222110	46.40	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.80%

Target Compounds

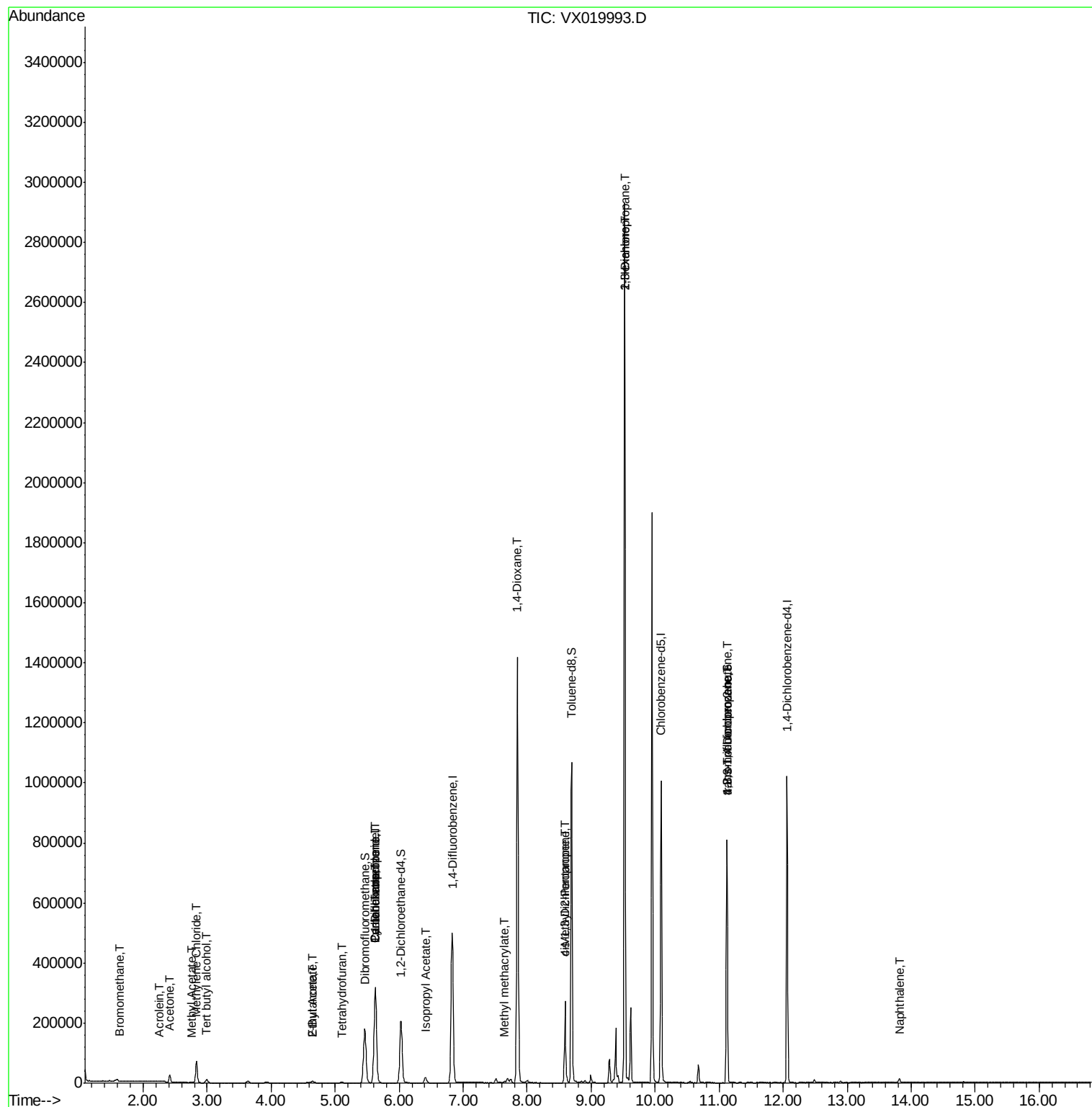
					Qvalue	
5) Bromomethane	1.63	94	511	0.441	ug/l	82
11) Tert butyl alcohol	2.99	59	6617	5.418	ug/l #	73
13) Acrolein	2.26	56	194	0.435	ug/l	97
16) Acetone	2.42	43	26207	17.274	ug/l	99
18) Methyl Acetate	2.75	43	2108	0.568	ug/l #	85
20) Methylene Chloride	2.83	84	34452	8.774	ug/l	97
25) 2-Butanone	4.64	43	4191	1.798	ug/l #	80
29) Tetrahydrofuran	5.10	42	1160	0.772	ug/l #	86
31) Cyclohexane	5.63	56	5876	1.170	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24157	5.245	ug/l #	48
37) Ethyl Acetate	4.64	43	4191	0.901	ug/l #	64
38) Carbon Tetrachloride	5.62	117	30085	6.671	ug/l #	17
43) Isopropyl Acetate	6.41	43	24004	3.175	ug/l	98
48) Methyl methacrylate	7.65	41	6112	1.644	ug/l #	10
49) 1,4-Dioxane	7.85	88	222	2.465	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	86132	18.661	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	44913	7.907	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	24748	4.087	ug/l #	43
59) 2-Hexanone	9.52	43	310396	86.756	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	107124	23.188	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107124	67.033	ug/l #	12
95) Naphthalene	13.82	128	10424	0.767	ug/l	98

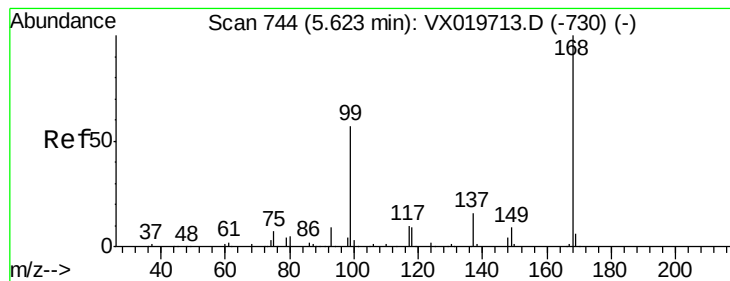
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

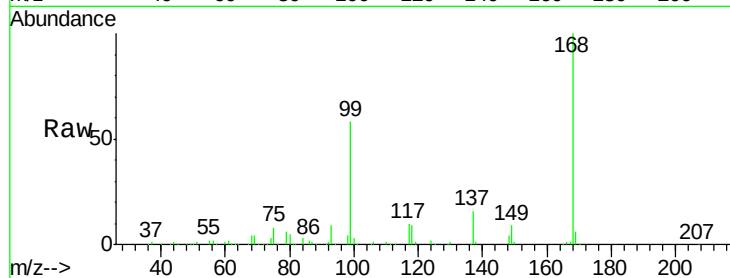
TR3-B-TOP

Tgt Ion:168 Resp: 307106

Ion Ratio Lower Upper

168 100

99 57.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

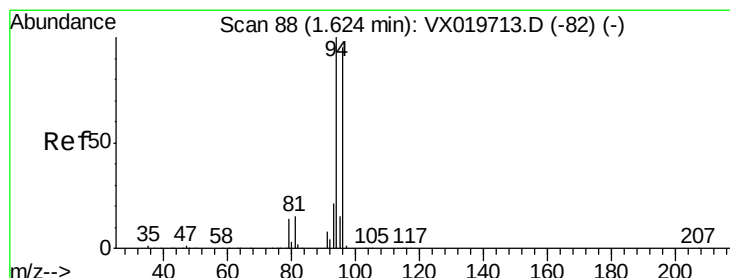
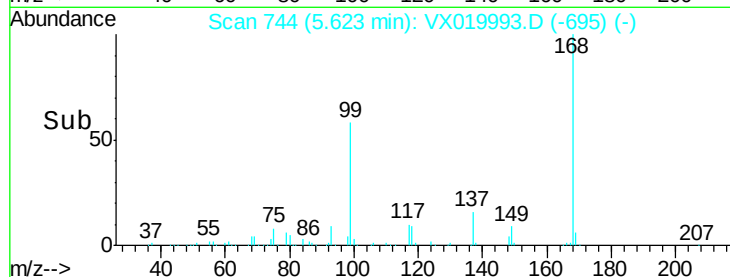
40000

20000

0

Time-->

5.50 5.60 5.70



#5

Bromomethane

Concen: 0.441 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019993.D

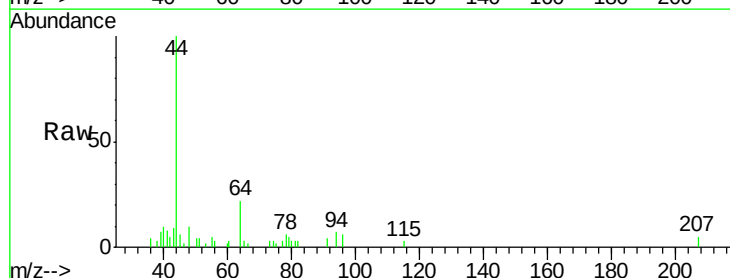
Acq: 14 Dec 2020 17:48

Tgt Ion: 94 Resp: 511

Ion Ratio Lower Upper

94 100

96 78.3 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

250

200

150

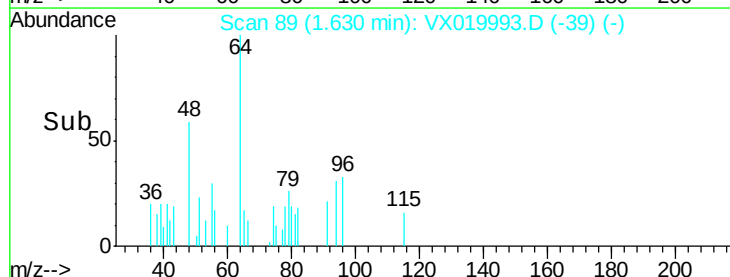
100

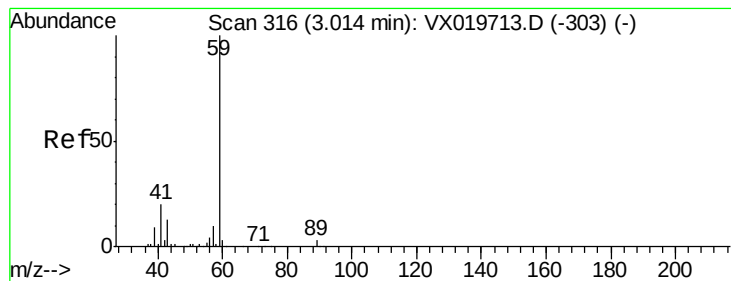
50

0

Time-->

1.60 1.65 1.70





#11

Tert butyl alcohol

Concen: 5.418 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

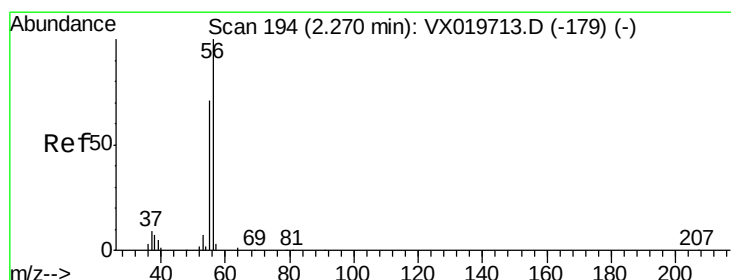
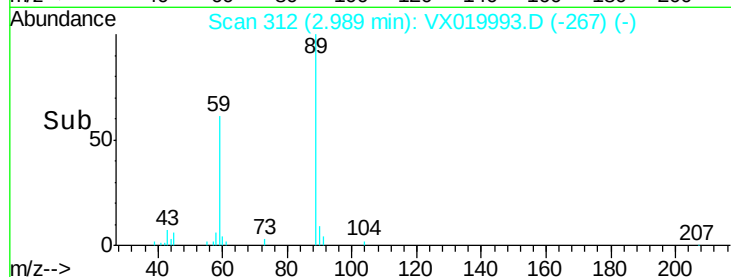
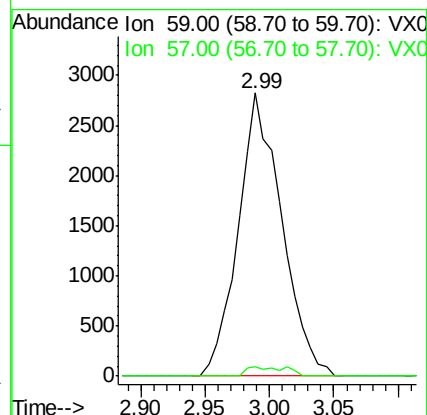
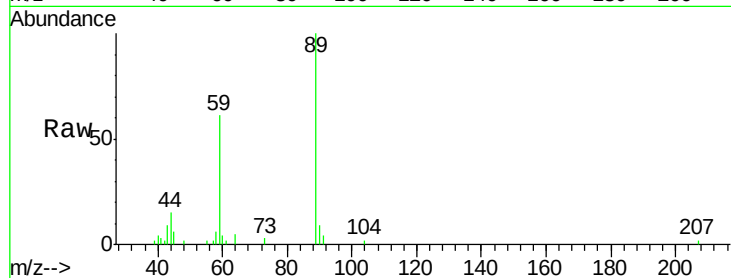
TR3-B-TOP

Tgt Ion: 59 Resp: 6617

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: 0.435 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019993.D

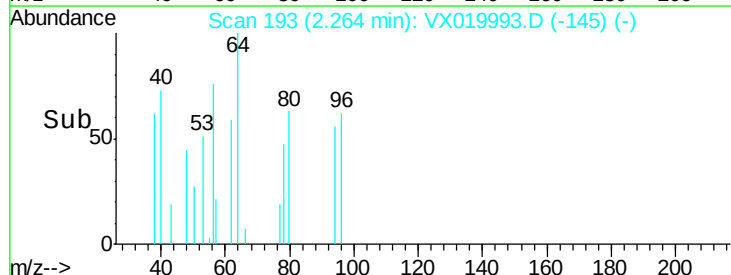
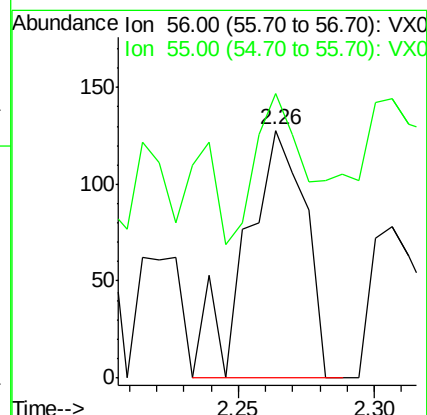
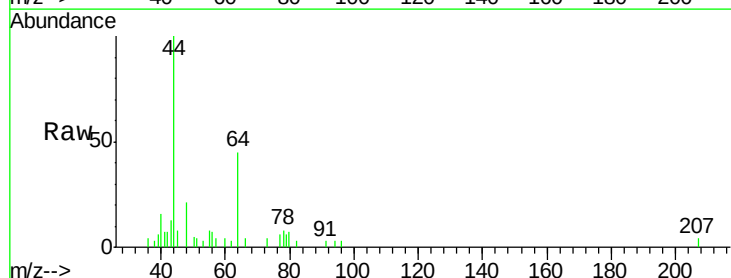
Acq: 14 Dec 2020 17:48

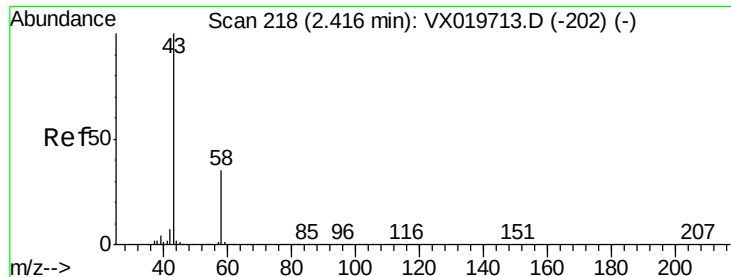
Tgt Ion: 56 Resp: 194

Ion Ratio Lower Upper

56 100

55 73.2 56.4 84.6





#16

Acetone

Concen: 17.274 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

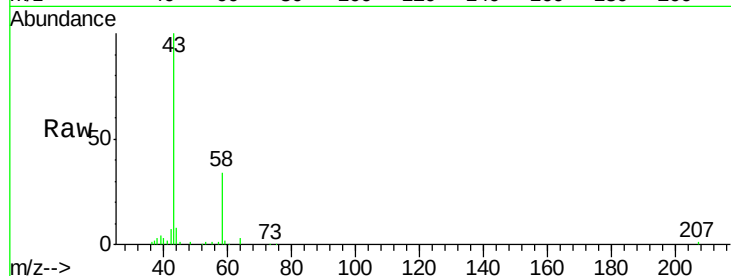
TR3-B-TOP

Tgt Ion: 43 Resp: 26207

Ion Ratio Lower Upper

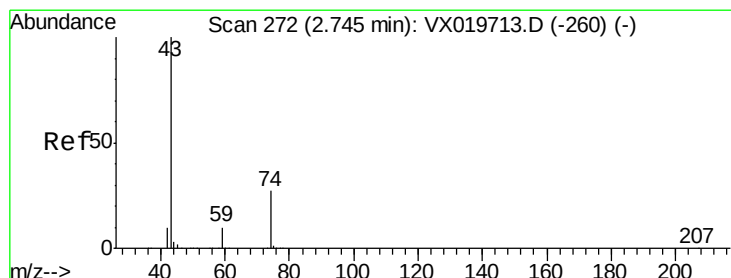
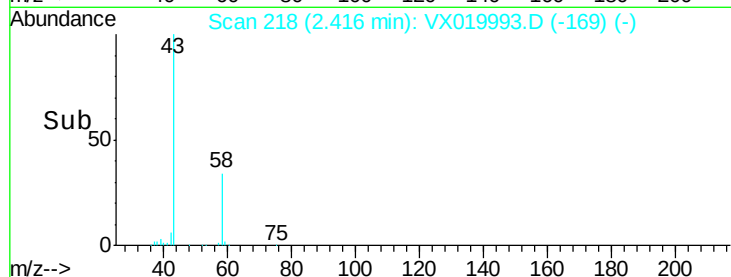
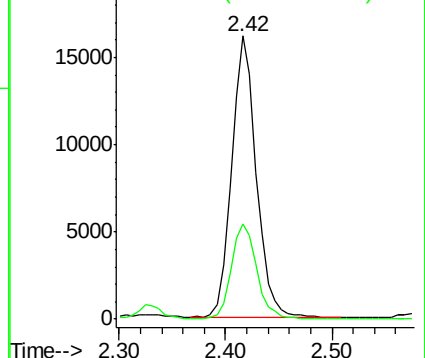
43 100

58 34.0 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.568 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019993.D

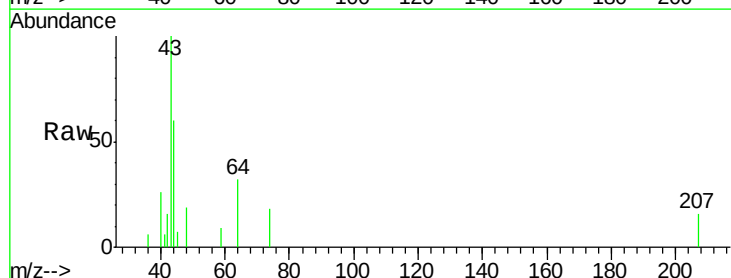
Acq: 14 Dec 2020 17:48

Tgt Ion: 43 Resp: 2108

Ion Ratio Lower Upper

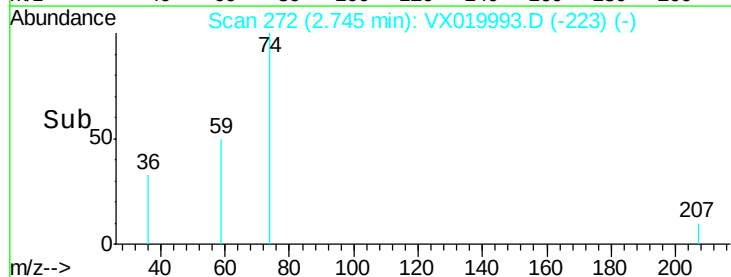
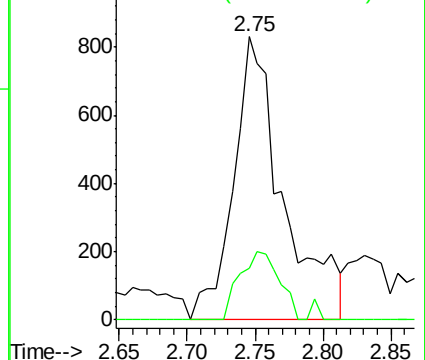
43 100

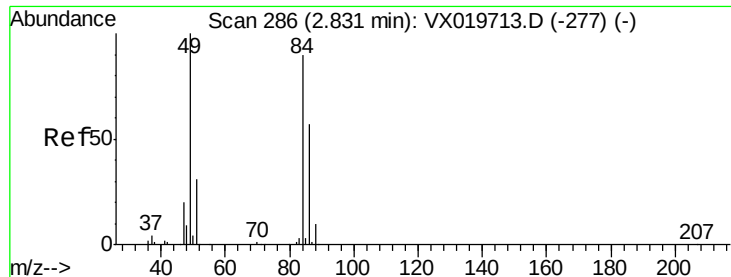
74 19.4 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

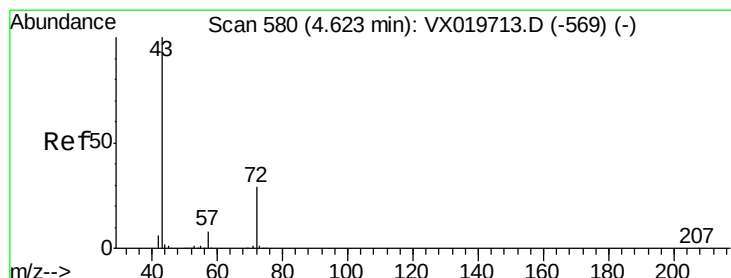
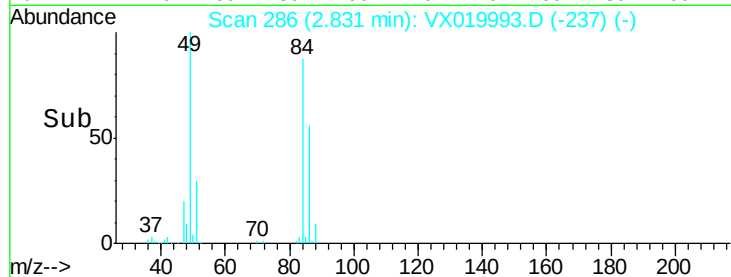
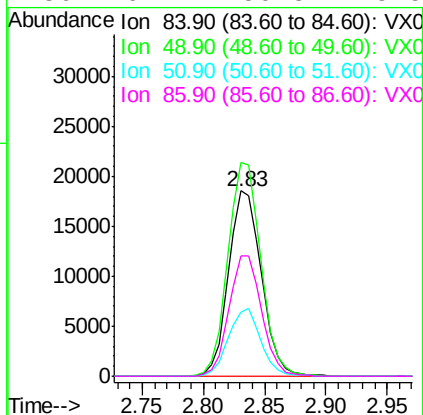
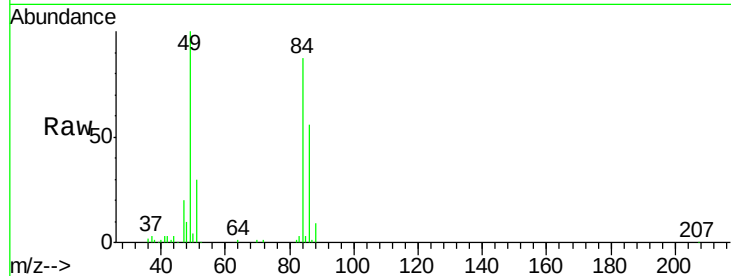




#20
Methylene Chloride
Concen: 8.774 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

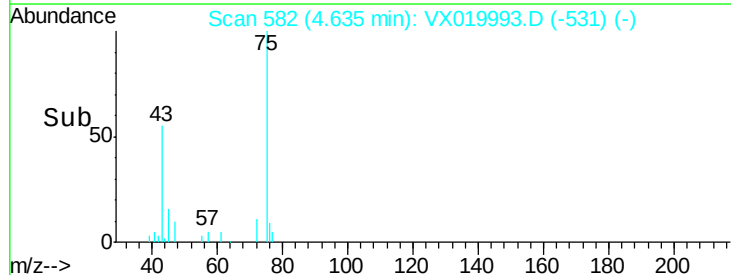
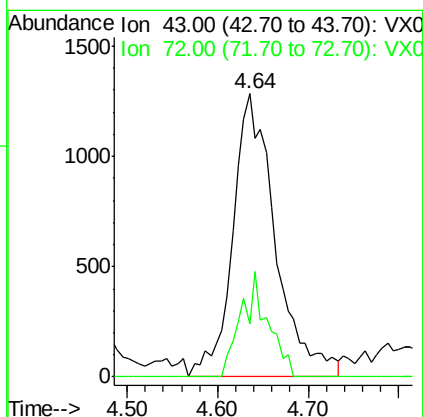
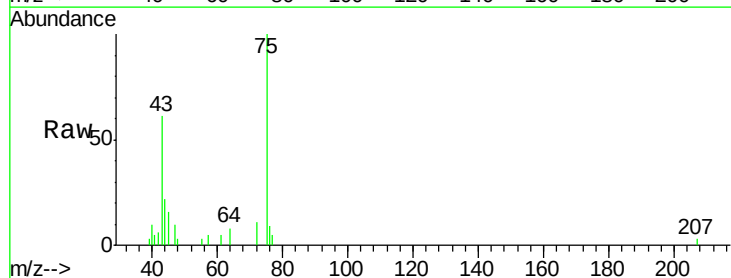
Instrument :
MSVOA_X
ClientSampled :
TR3-B-TOP

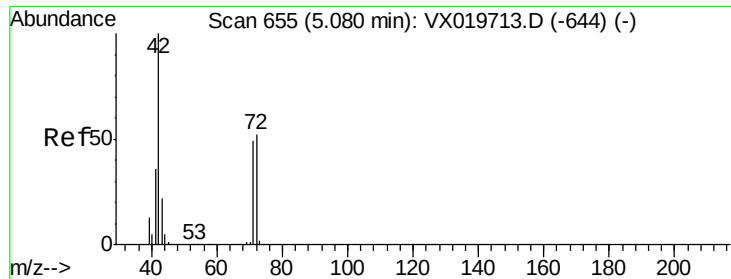
Tgt Ion: 84 Resp: 34452
Ion Ratio Lower Upper
84 100
49 115.2 88.6 132.8
51 34.4 27.0 40.6
86 64.7 50.3 75.5



#25
2-Butanone
Concen: 1.798 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

Tgt Ion: 43 Resp: 4191
Ion Ratio Lower Upper
43 100
72 18.8 23.7 35.5#

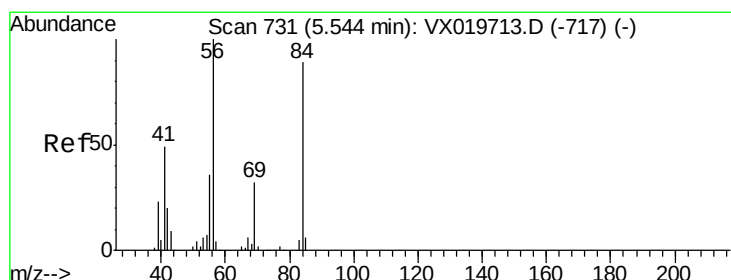
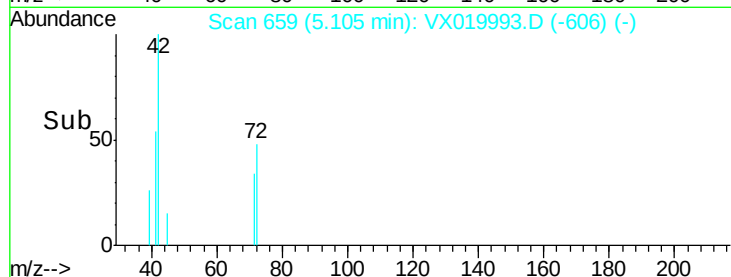
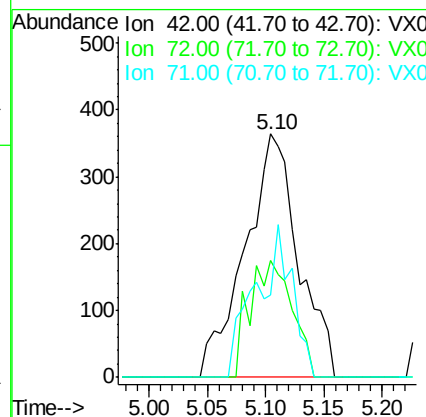
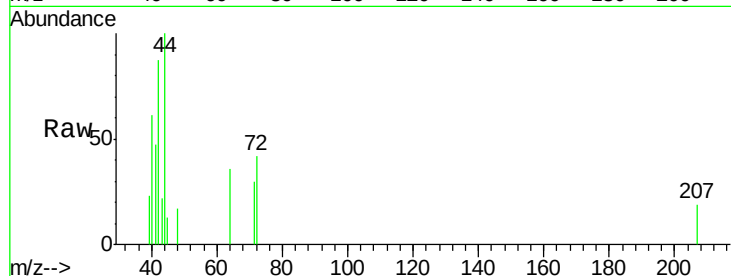




#29
Tetrahydrofuran
Concen: 0.772 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

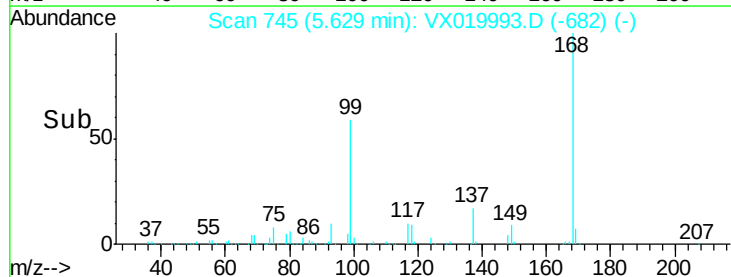
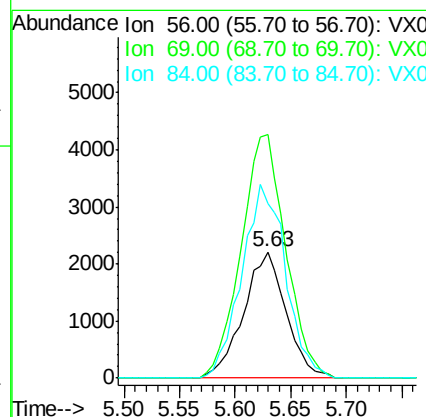
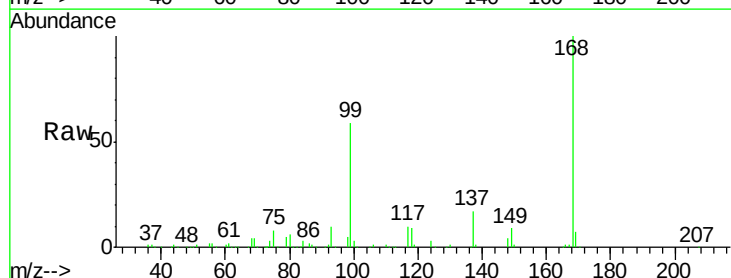
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-TOP

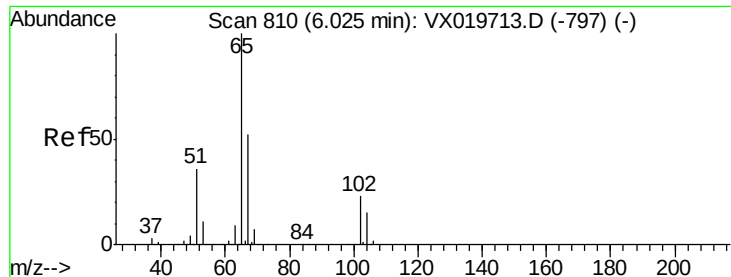
Tgt Ion: 42 Resp: 1160
Ion Ratio Lower Upper
42 100
72 38.4 41.7 62.5#
71 42.8 38.4 57.6



#31
Cyclohexane
Concen: 1.170 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

Tgt Ion: 56 Resp: 5876
Ion Ratio Lower Upper
56 100
69 192.7 25.3 37.9#
84 138.1 71.4 107.0#

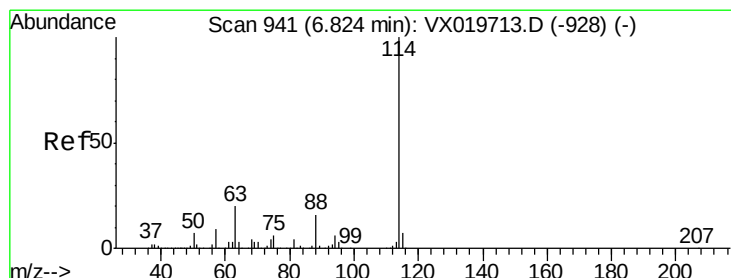
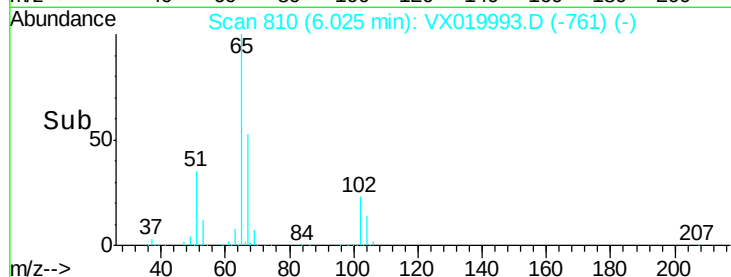
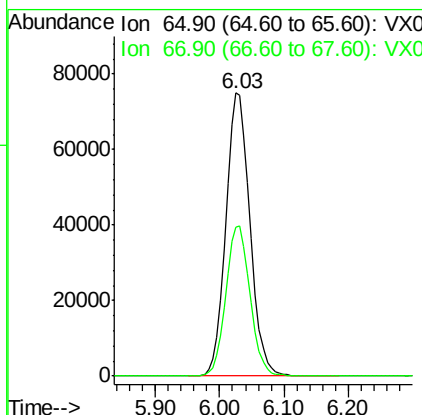
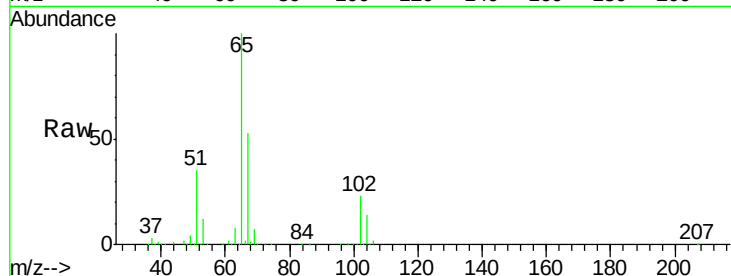




#33
 1,2-Dichloroethane-d4
 Concen: 49.057 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019993.D
 Acq: 14 Dec 2020 17:48

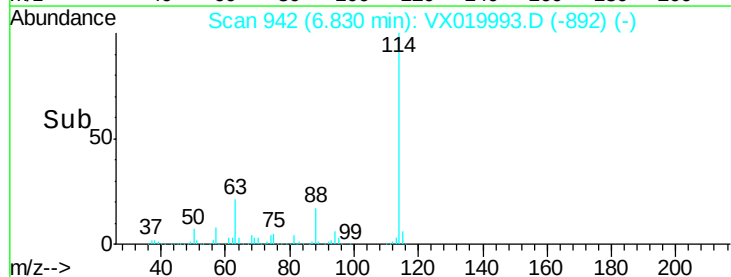
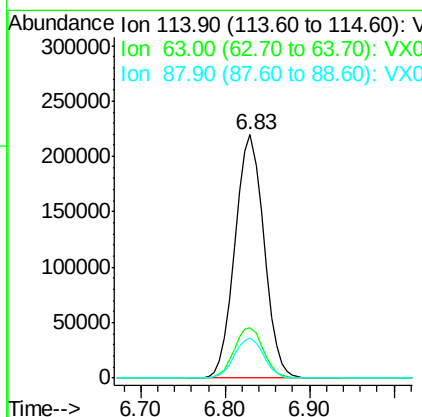
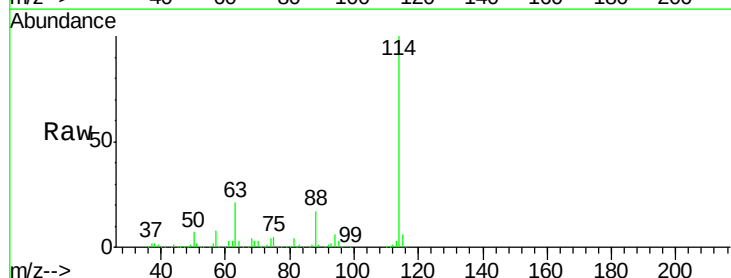
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-TOP

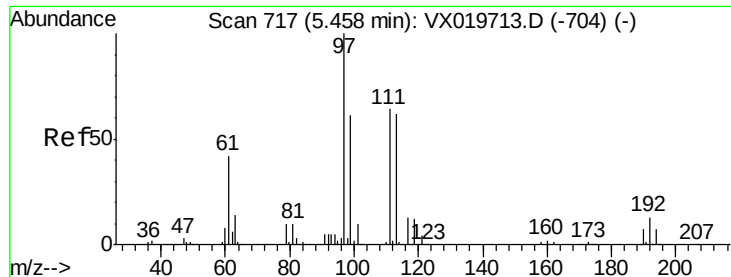
Tgt Ion: 65 Resp: 198007
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019993.D
 Acq: 14 Dec 2020 17:48

Tgt Ion: 114 Resp: 509676
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.8
 88 16.5 0.0 32.8

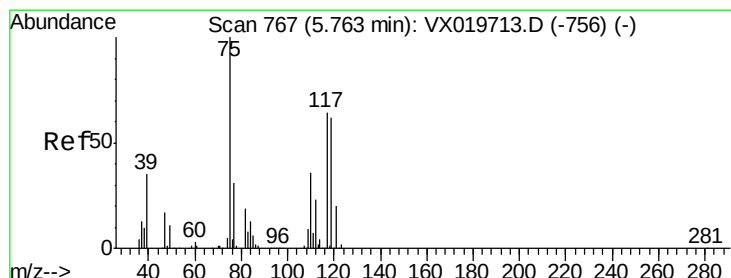
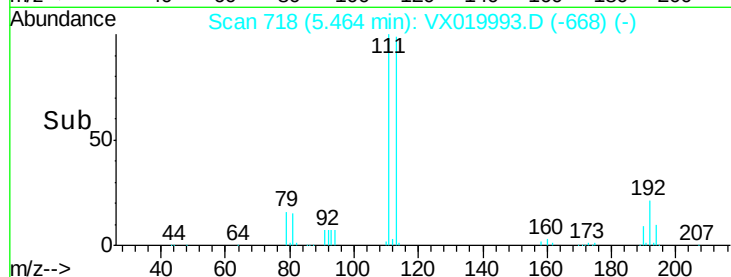
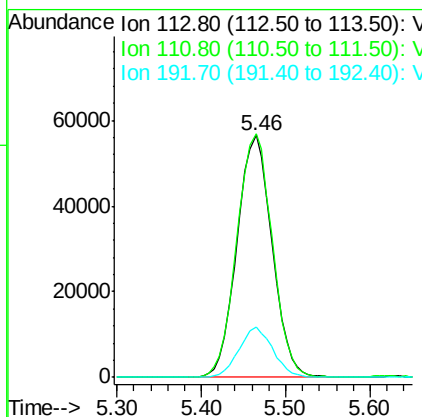
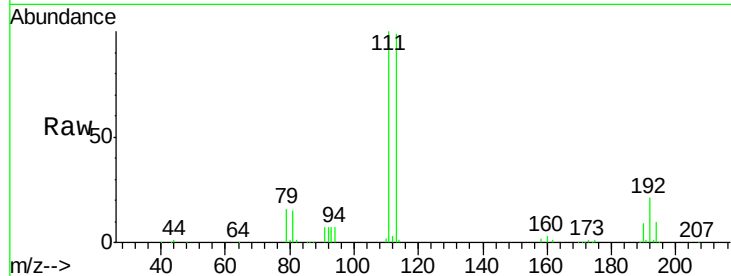




#35
 Dibromofluoromethane
 Concen: 48.328 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019993.D
 Acq: 14 Dec 2020 17:48

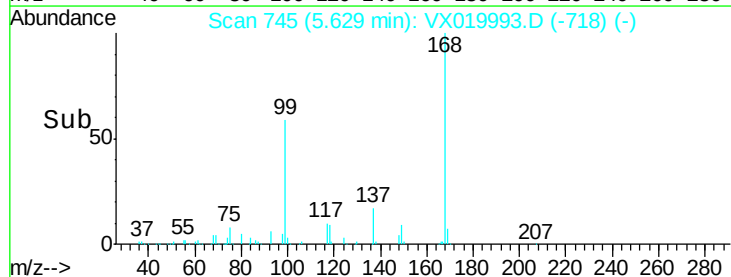
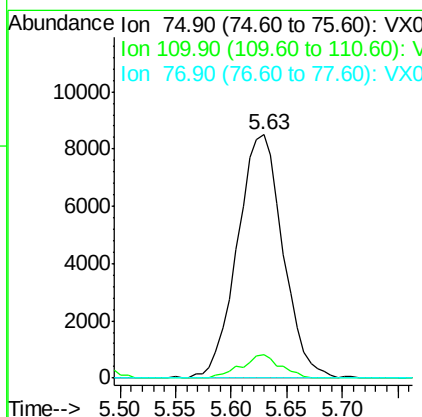
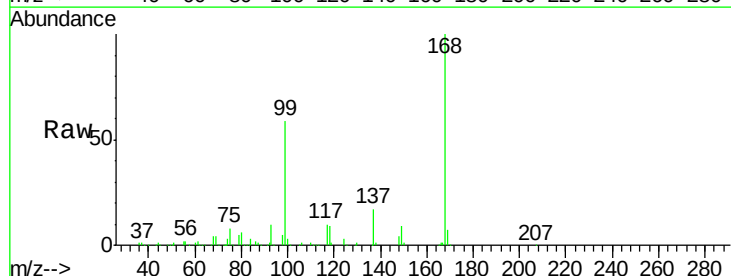
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-TOP

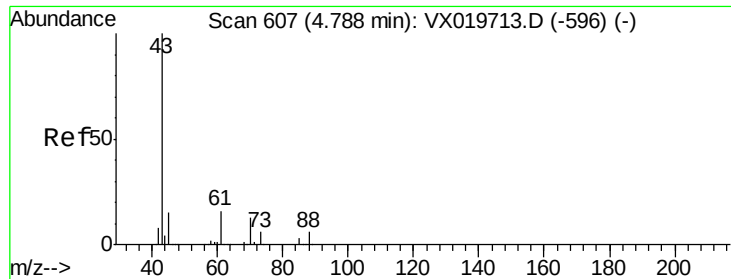
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	20.2	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.245 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019993.D
 Acq: 14 Dec 2020 17:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.4#
77	0.0	25.3	37.9#





#37

Ethyl Acetate

Concen: 0.901 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.15 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-TOP

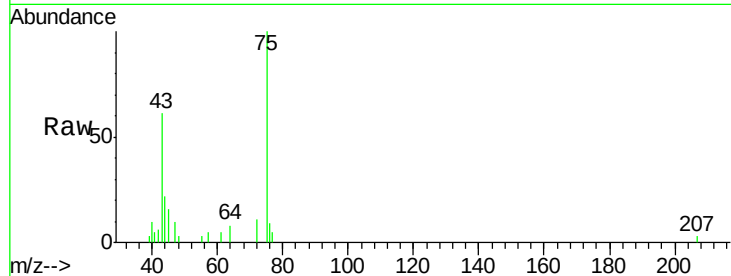
Tgt Ion: 43 Resp: 4191

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

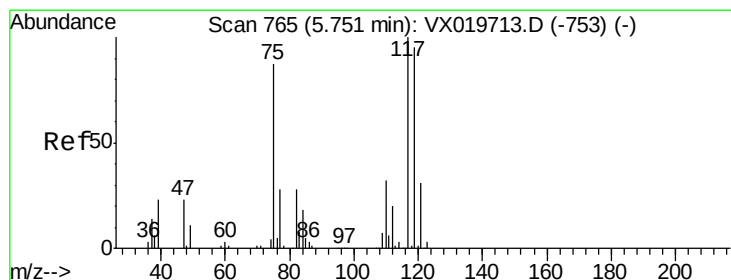
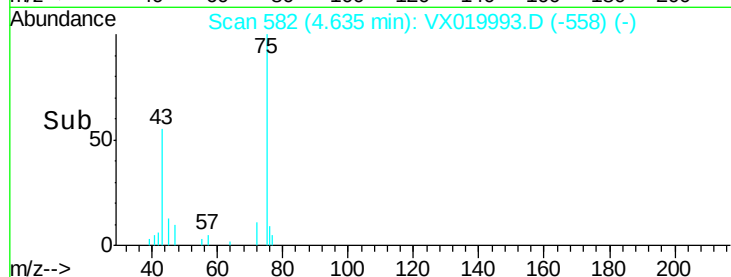
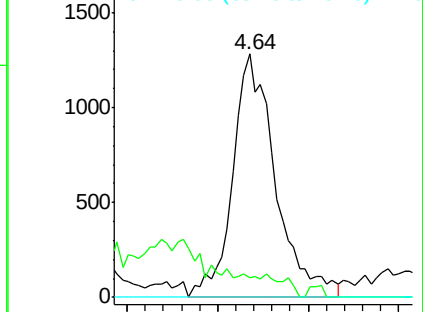
70 0.0 10.5 15.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.671 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

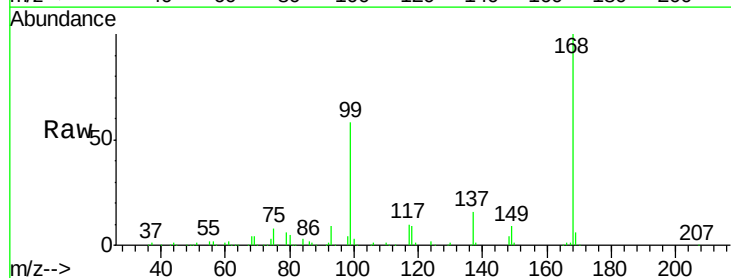
Tgt Ion: 117 Resp: 30085

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

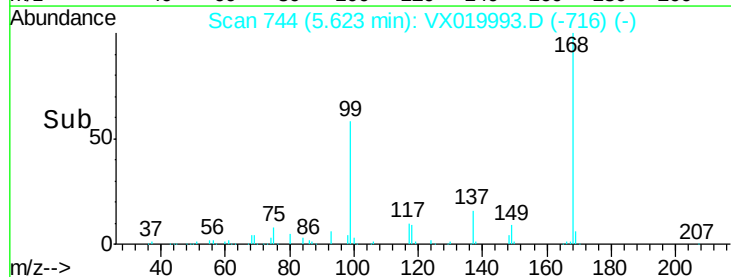
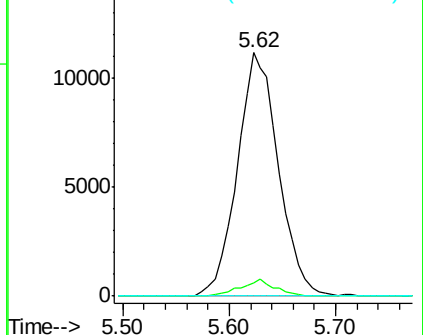
121 0.0 24.8 37.2#

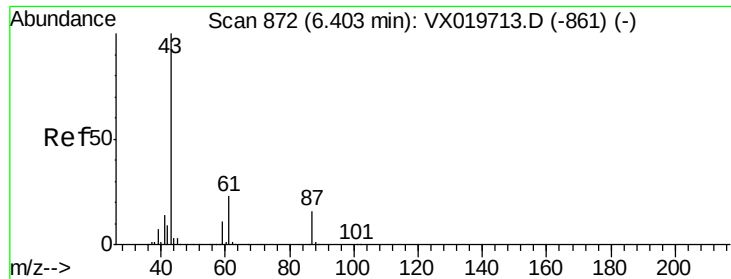


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

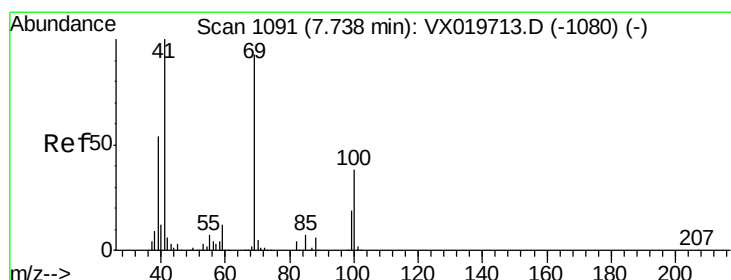
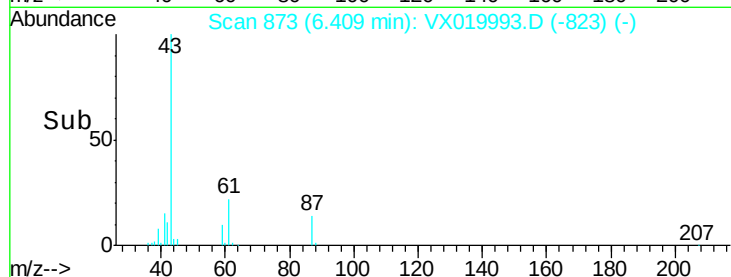
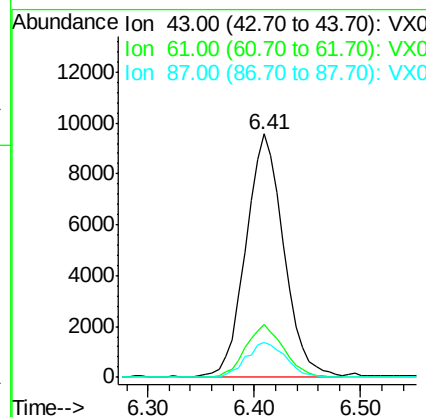
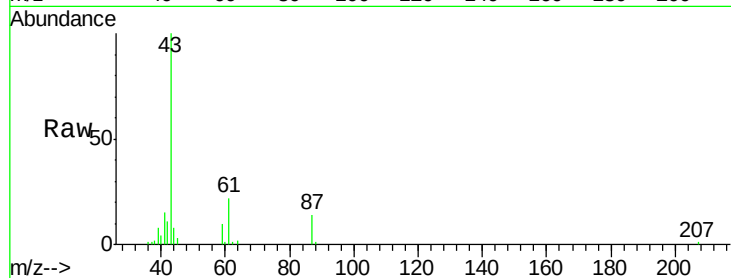




#43
Isopropyl Acetate
Concen: 3.175 ug/l
RT: 6.41 min Scan# 873
Delta R.T. 0.01 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

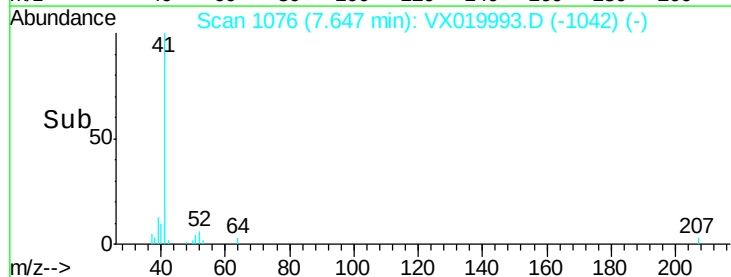
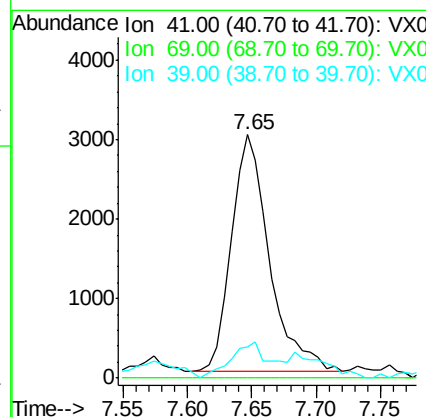
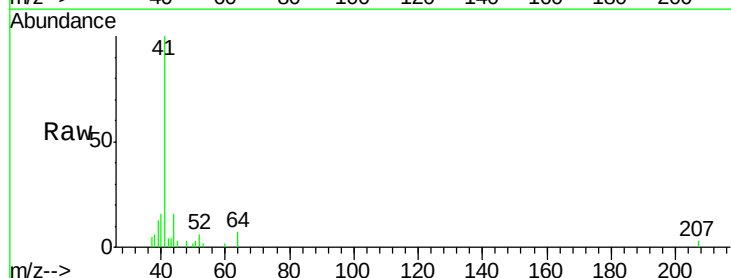
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-TOP

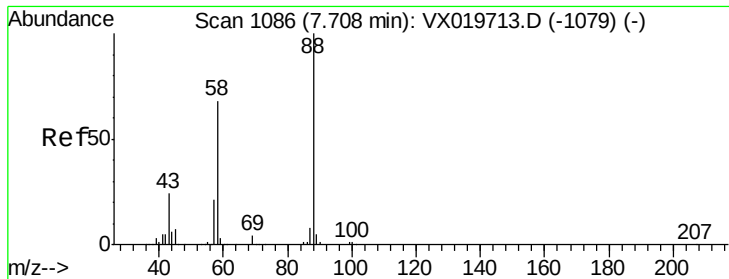
Tgt Ion: 43 Resp: 24004
Ion Ratio Lower Upper
43 100
61 21.7 18.2 27.4
87 14.8 12.5 18.7



#48
Methyl methacrylate
Concen: 1.644 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

Tgt Ion: 41 Resp: 6112
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.465 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-TOP

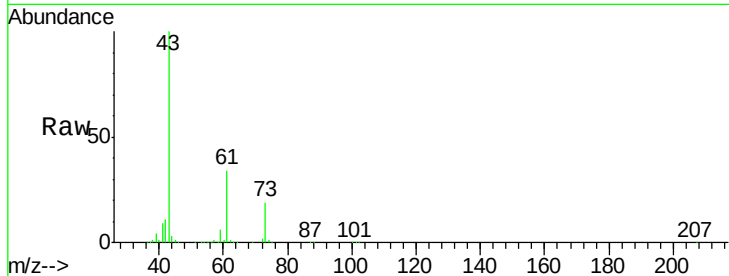
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 557969.4 23.2 34.8#

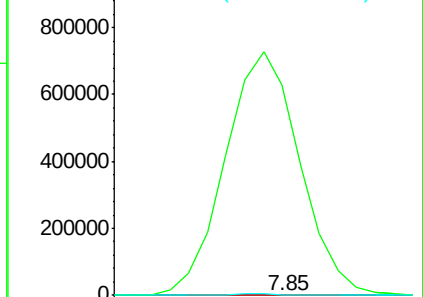
58 2823.9 55.0 82.4#



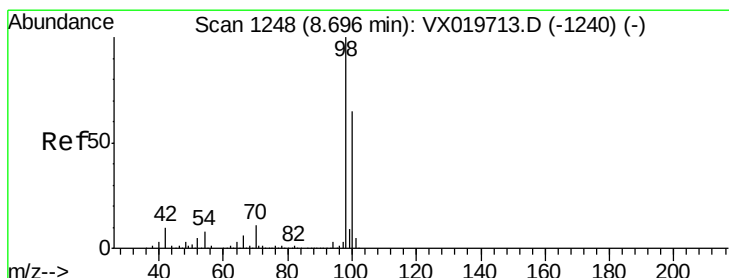
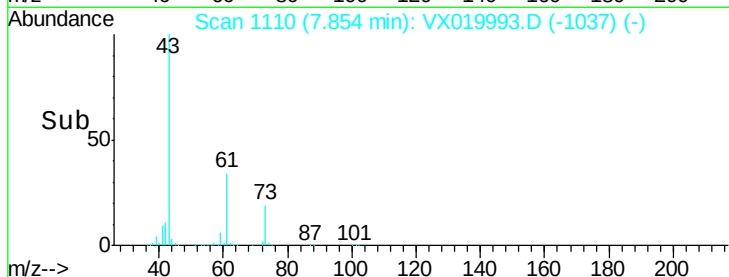
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 50.201 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019993.D

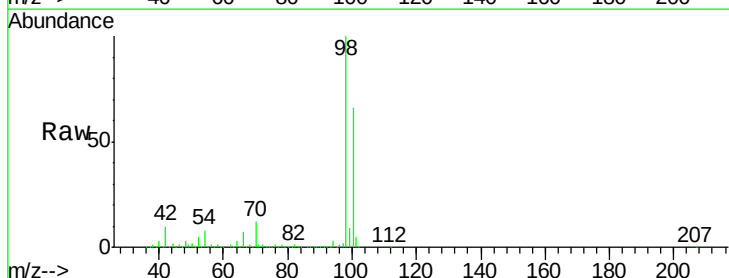
Acq: 14 Dec 2020 17:48

Tgt Ion: 98 Resp: 631304

Ion Ratio Lower Upper

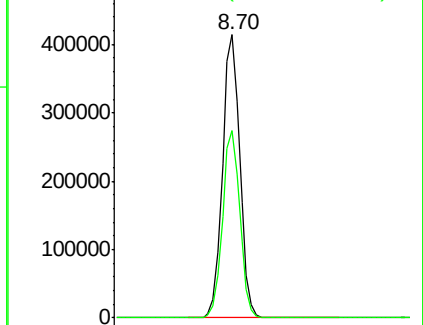
98 100

100 65.9 51.9 77.9

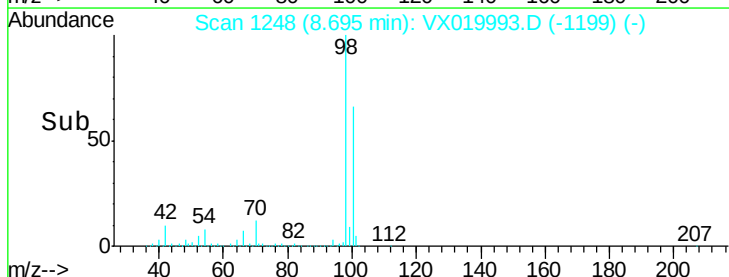


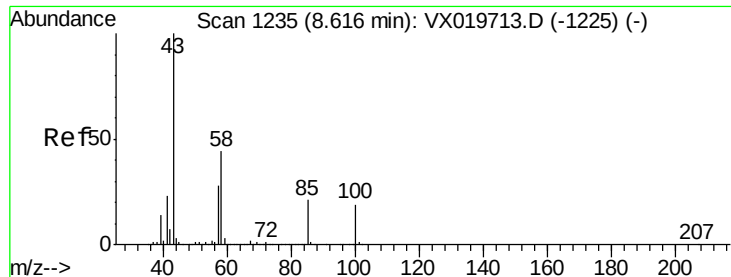
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->

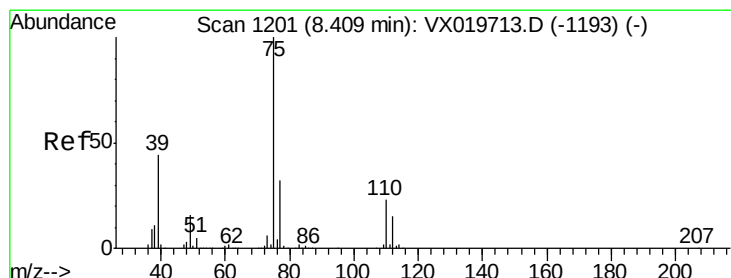
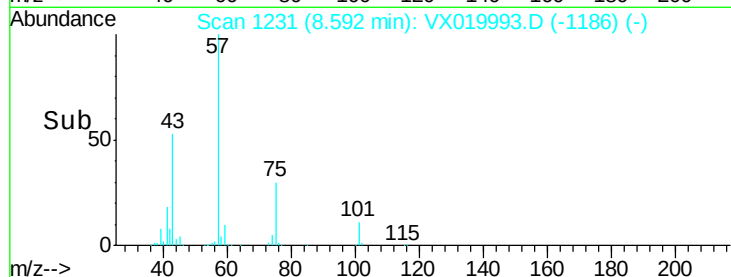
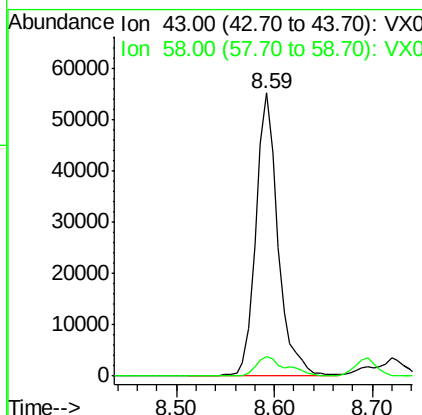
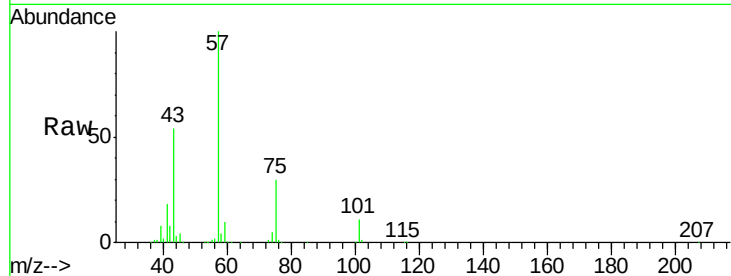




#51
 4-Methyl-2-Pentanone
 Concen: 18.661 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX019993.D
 Acq: 14 Dec 2020 17:48

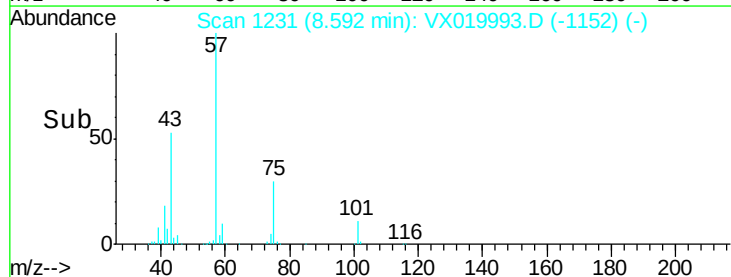
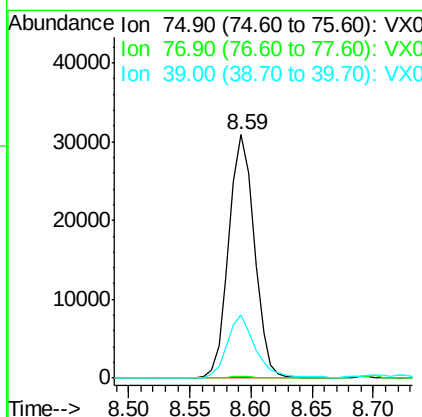
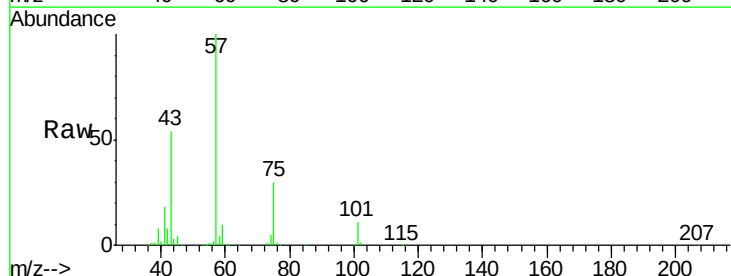
Instrument :
 MSVOA_X
 ClientSampled :
 TR3-B-TOP

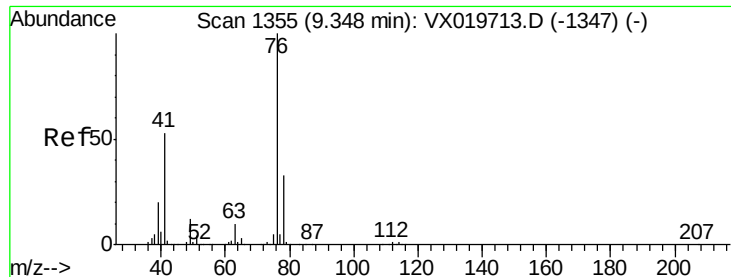
Tgt Ion: 43 Resp: 86132
 Ion Ratio Lower Upper
 43 100
 58 9.6 35.4 53.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.907 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019993.D
 Acq: 14 Dec 2020 17:48

Tgt Ion: 75 Resp: 44913
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 25.6 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.087 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

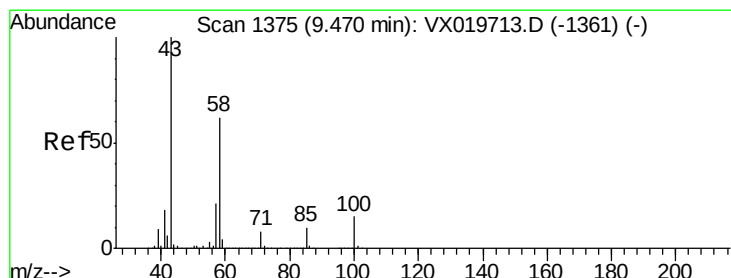
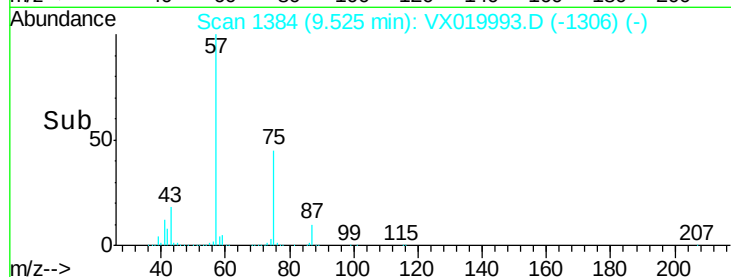
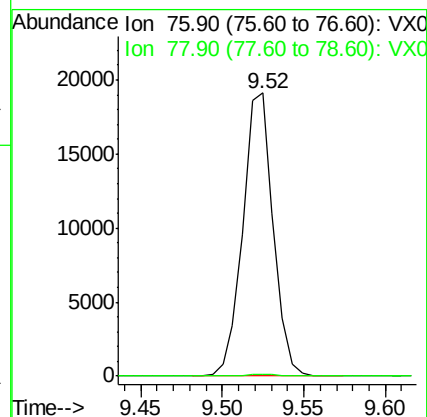
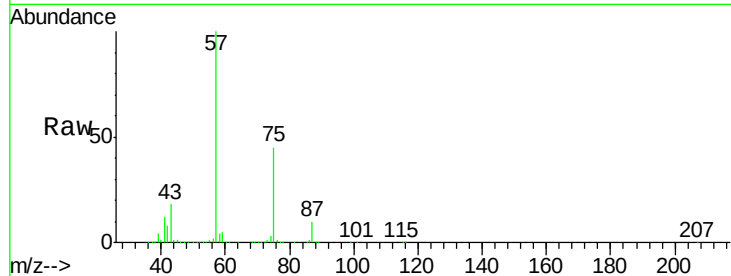
TR3-B-TOP

Tgt Ion: 76 Resp: 24748

Ion Ratio Lower Upper

76 100

78 0.7 26.2 39.2#



#59

2-Hexanone

Concen: 86.756 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019993.D

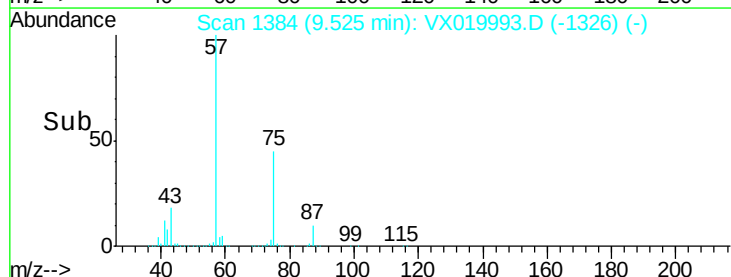
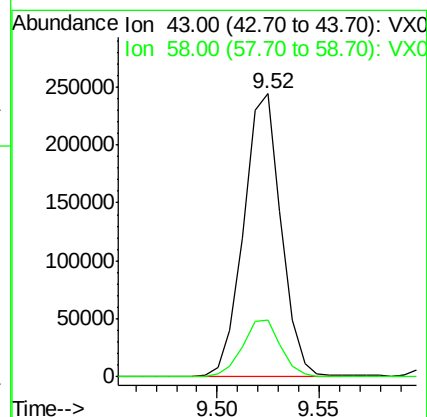
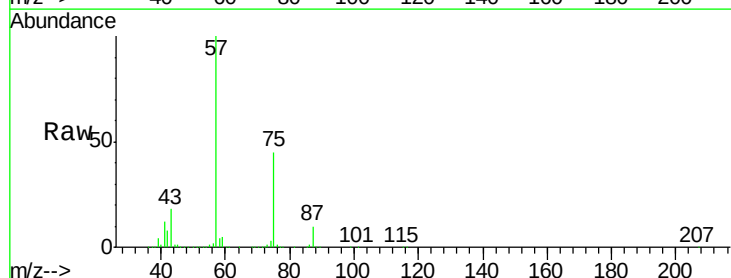
Acq: 14 Dec 2020 17:48

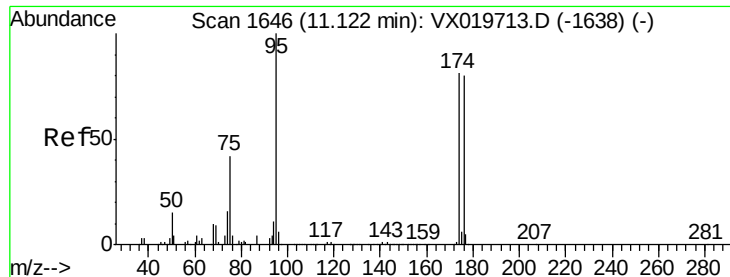
Tgt Ion: 43 Resp: 310396

Ion Ratio Lower Upper

43 100

58 20.5 30.9 92.8#

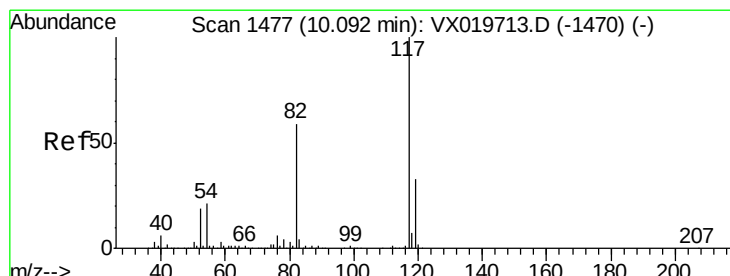
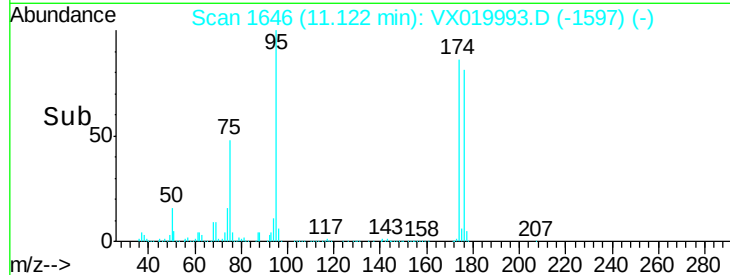
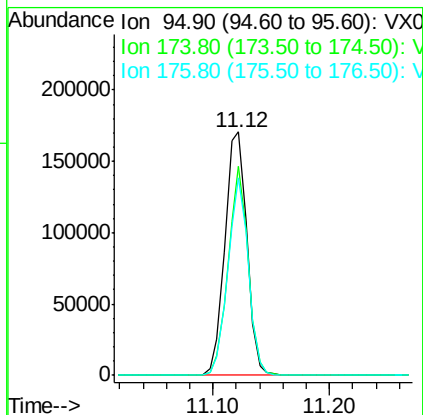
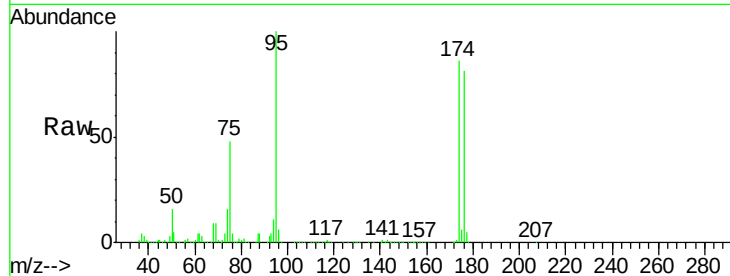




#62
4-Bromofluorobenzene
Concen: 46.404 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

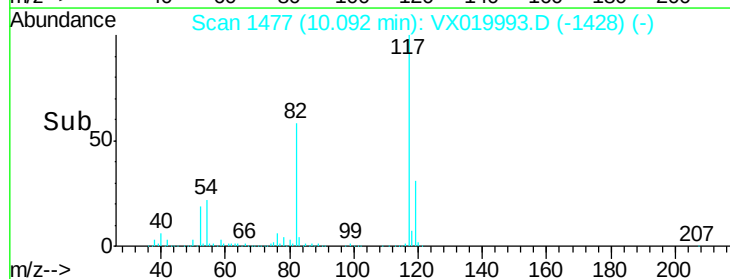
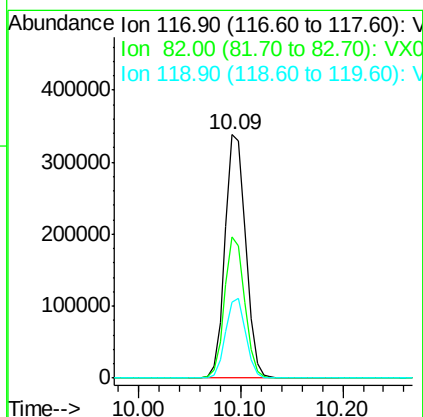
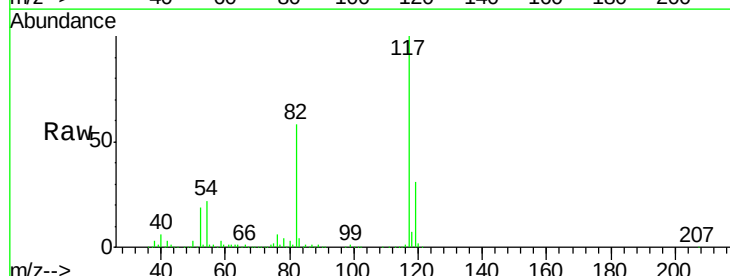
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-TOP

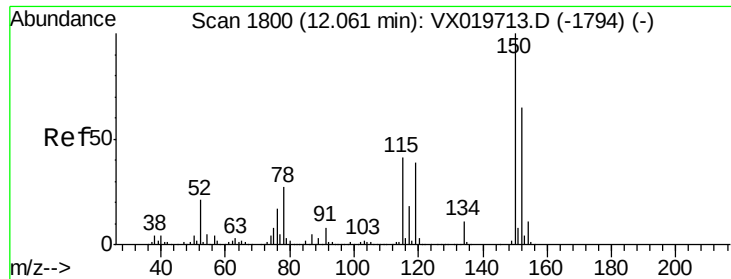
Tgt Ion: 95 Resp: 222110
Ion Ratio Lower Upper
95 100
174 78.2 0.0 154.6
176 75.5 0.0 155.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX019993.D
Acq: 14 Dec 2020 17:48

Tgt Ion: 117 Resp: 474396
Ion Ratio Lower Upper
117 100
82 58.0 47.4 71.2
119 31.2 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-TOP

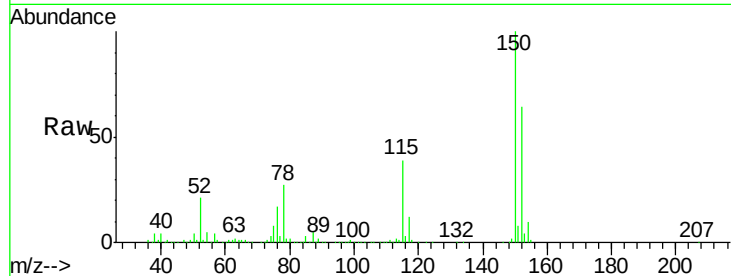
Tgt Ion:152 Resp: 205979

Ion Ratio Lower Upper

152 100

115 59.8 41.1 123.3

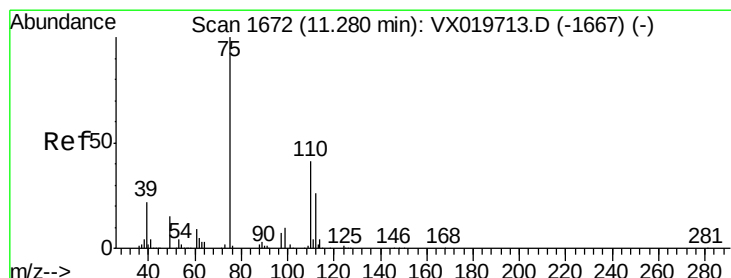
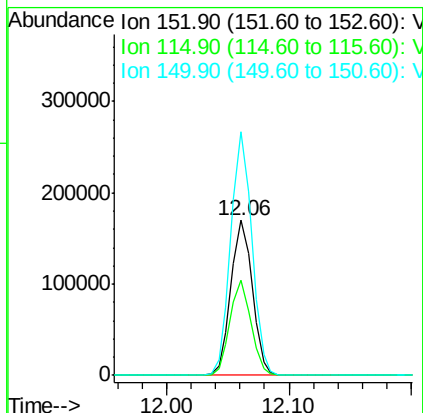
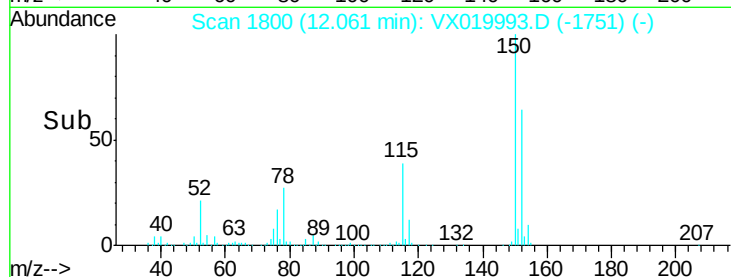
150 154.1 0.0 349.0



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: 23.188 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019993.D

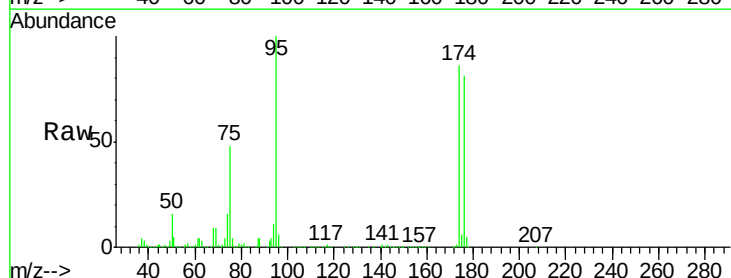
Acq: 14 Dec 2020 17:48

Tgt Ion: 75 Resp: 107124

Ion Ratio Lower Upper

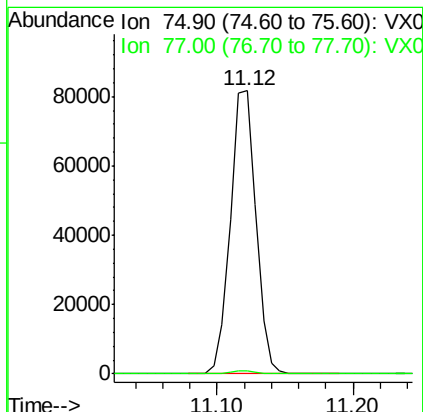
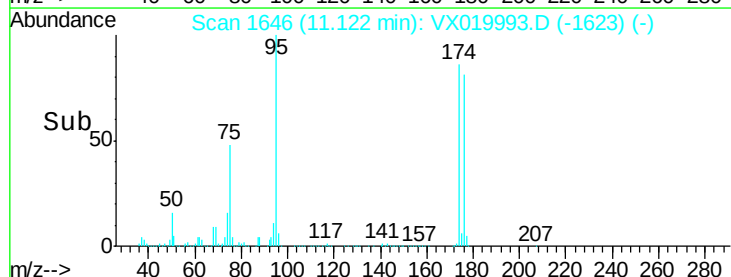
75 100

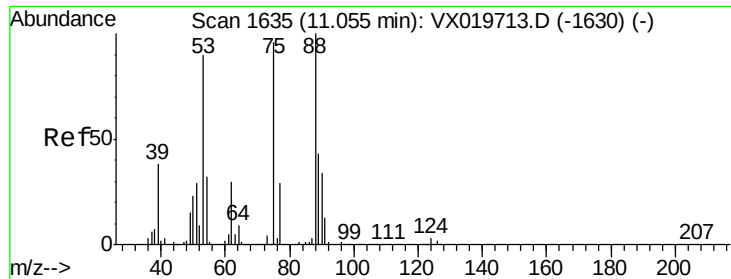
77 1.2 19.1 57.5#



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: 67.033 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

Instrument :

MSVOA_X

ClientSampled :

TR3-B-TOP

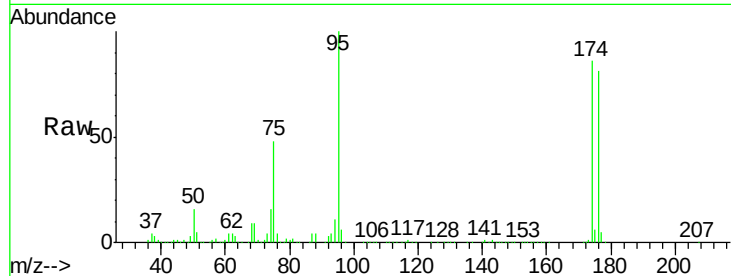
Tgt Ion: 75 Resp: 107124

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

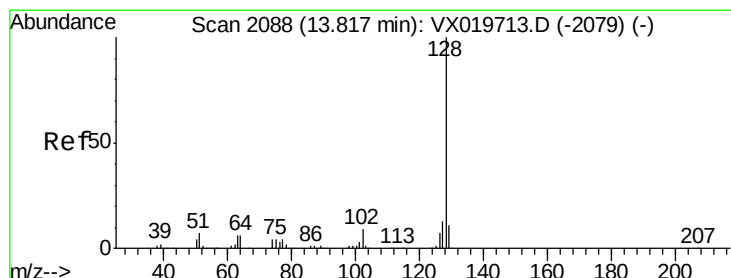
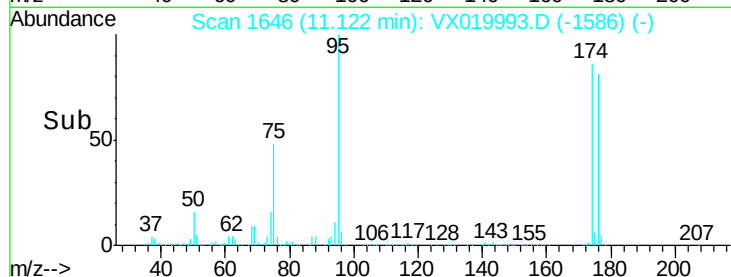
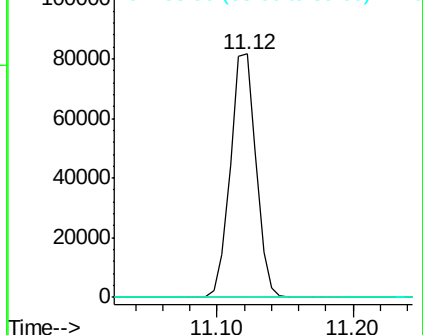
89 0.0 37.9 56.9#



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: 0.767 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019993.D

Acq: 14 Dec 2020 17:48

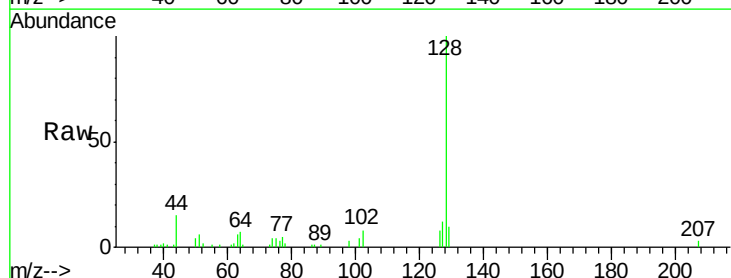
Tgt Ion: 128 Resp: 10424

Ion Ratio Lower Upper

128 100

127 12.5 10.3 15.5

129 10.1 8.8 13.2



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

