

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019945.D
 Acq On : 12 Dec 2020 20:17
 Operator : JC/MD
 Sample : L4984-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-BOTTOM

Quant Time: Dec 14 08:20:14 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	5.63	168	296812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	495828	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	468692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	195951	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	192108	49.25	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.50%		
35) Dibromofluoromethane	5.46	113	155264	48.45	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.90%		
50) Toluene-d8	8.70	98	621770	50.82	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.64%		
62) 4-Bromofluorobenzene	11.12	95	212379	45.61	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	91.22%		

Target Compounds

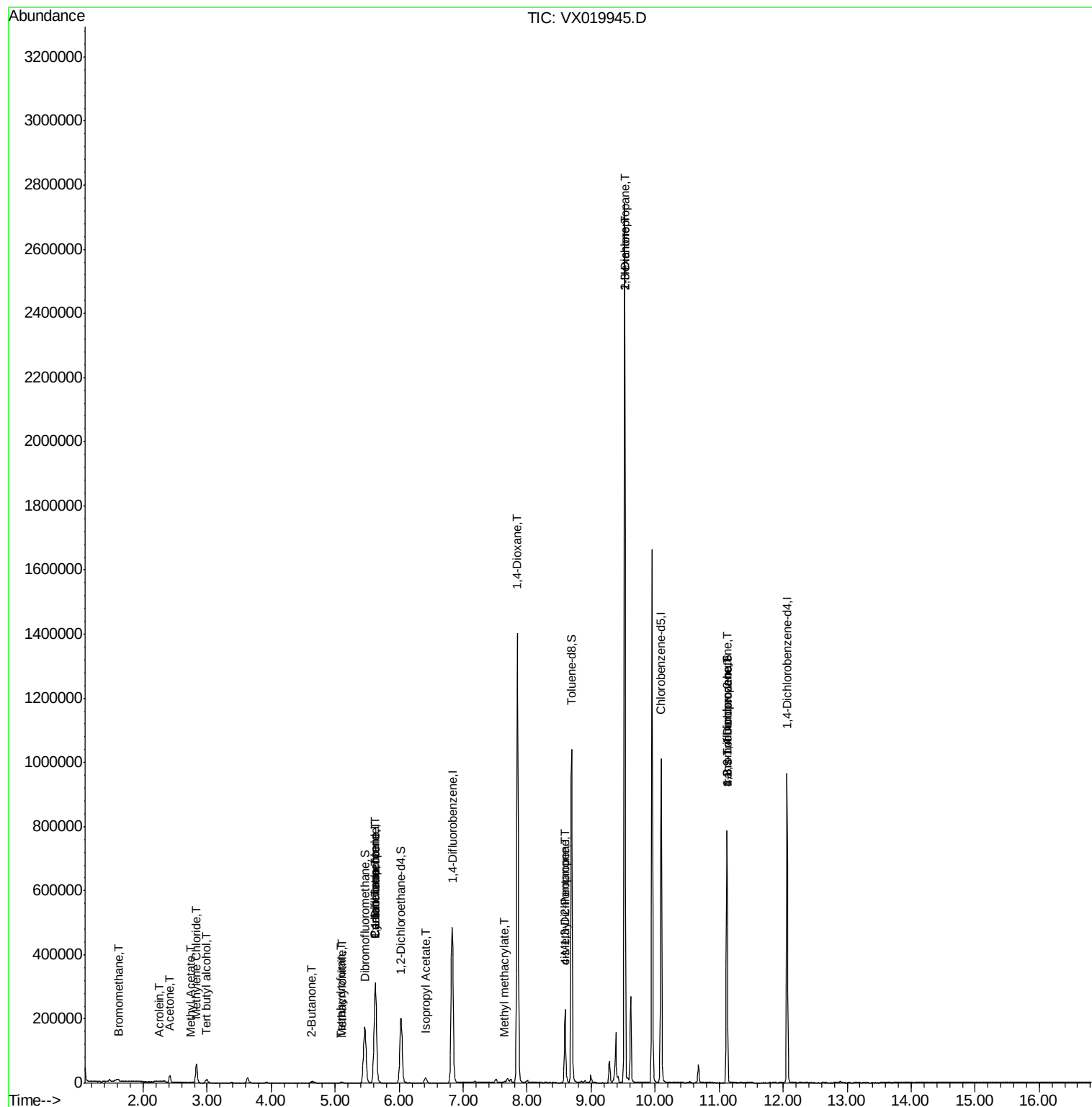
						Qvalue
5) Bromomethane	1.63	94	420	0.375	ug/l #	48
11) Tert butyl alcohol	3.00	59	6622	5.703	ug/l #	77
13) Acrolein	2.26	56	237	0.550	ug/l #	76
16) Acetone	2.42	43	23553	16.063	ug/l	94
18) Methyl Acetate	2.75	43	3305	0.921	ug/l	98
20) Methylene Chloride	2.83	84	29001	7.453	ug/l	98
25) 2-Butanone	4.64	43	3435	1.525	ug/l	98
29) Tetrahydrofuran	5.09	42	478	0.329	ug/l #	80
31) Cyclohexane	5.63	56	5805	1.196	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23486	5.242	ug/l #	48
38) Carbon Tetrachloride	5.62	117	29125	6.638	ug/l #	17
41) Methacrylonitrile	5.11	41	712	0.287	ug/l #	34
43) Isopropyl Acetate	6.42	43	21286	2.894	ug/l	98
48) Methyl methacrylate	7.65	41	6293	1.740	ug/l #	10
49) 1,4-Dioxane	7.85	88	261	2.979	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	72855	16.225	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	38531	6.973	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	23701	4.024	ug/l #	43
59) 2-Hexanone	9.52	43	286877	82.422	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	103125	23.465	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	103125	67.833	ug/l #	12

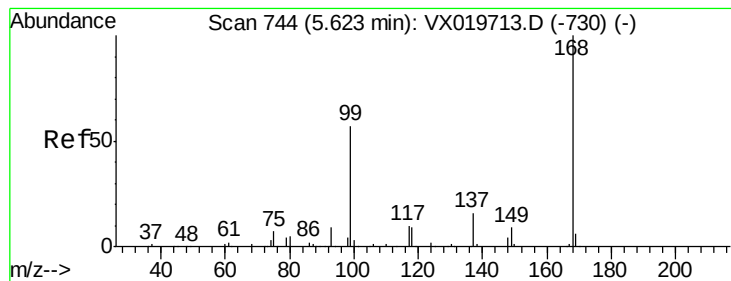
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 08:20:14 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
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: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

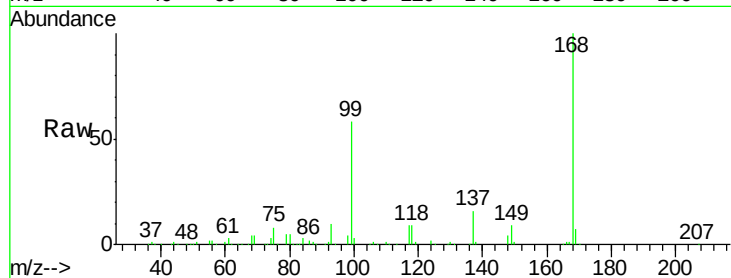
TR3-B-BOTTOM

Tgt Ion:168 Resp: 296812

Ion Ratio Lower Upper

168 100

99 57.6 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

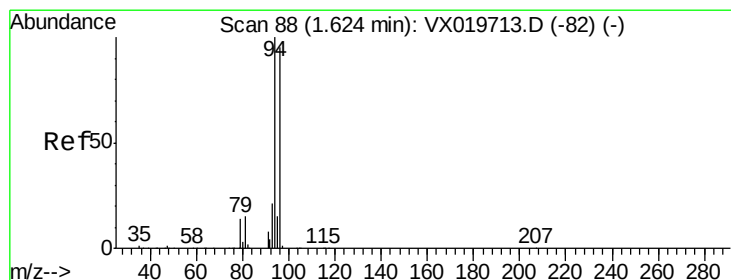
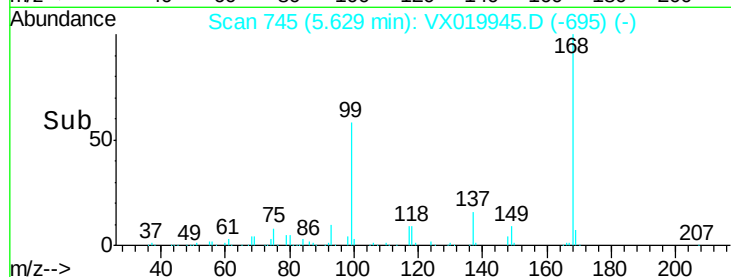
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.375 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019945.D

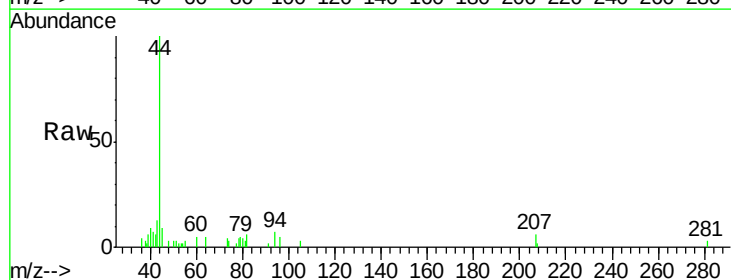
Acq: 12 Dec 2020 20:17

Tgt Ion: 94 Resp: 420

Ion Ratio Lower Upper

94 100

96 44.6 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

200

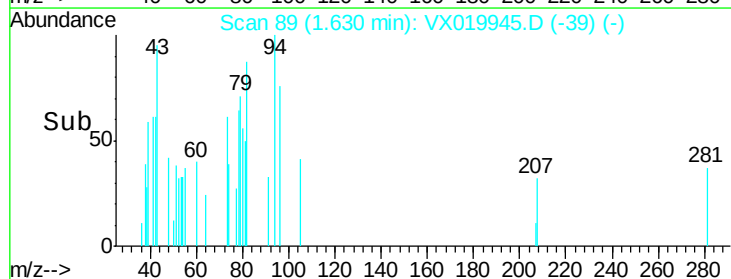
150

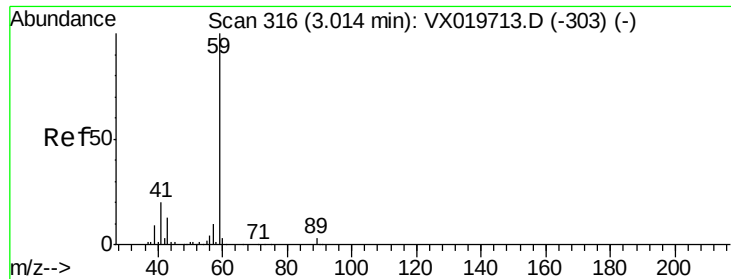
100

50

0

Time-->

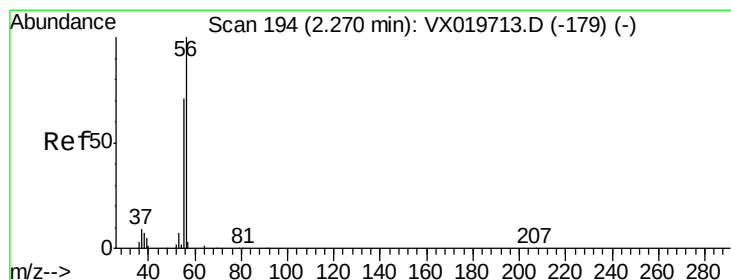
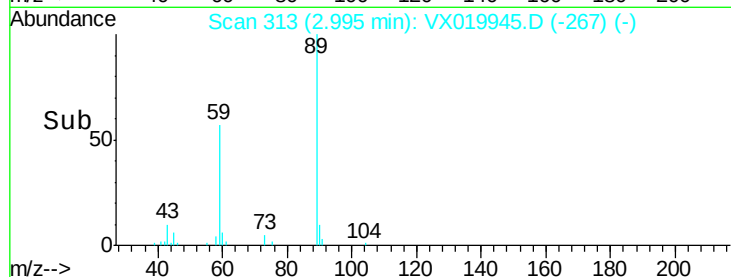
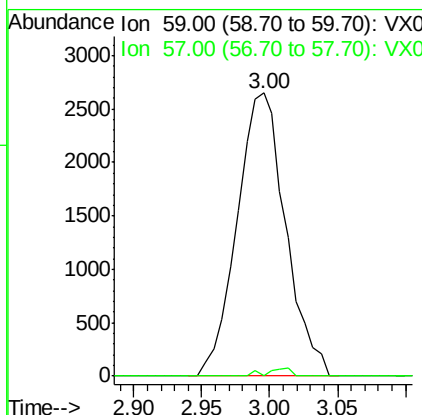
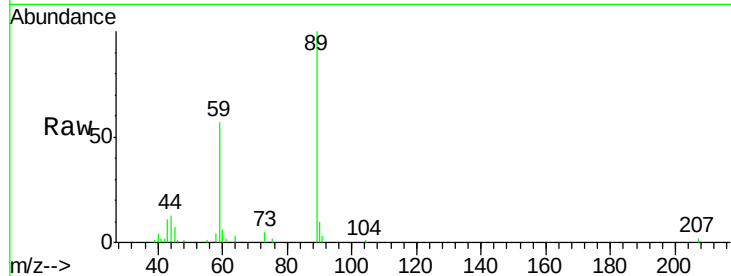




#11
Tert butyl alcohol
Concen: 5.703 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019945.D
Acq: 12 Dec 2020 20:17

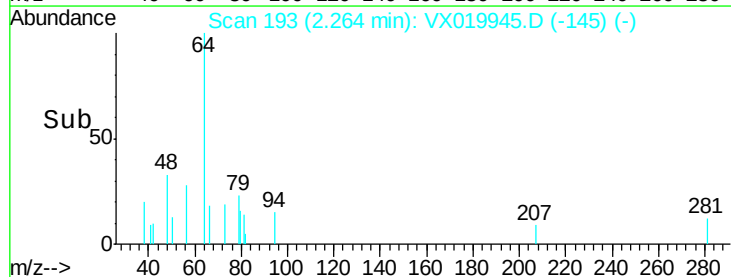
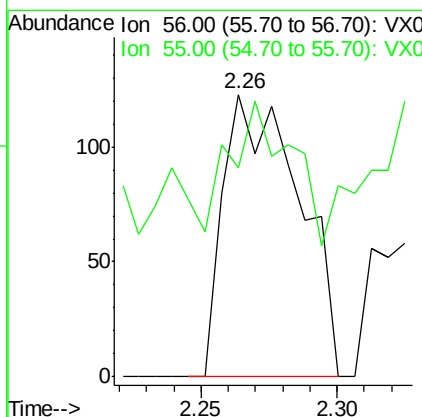
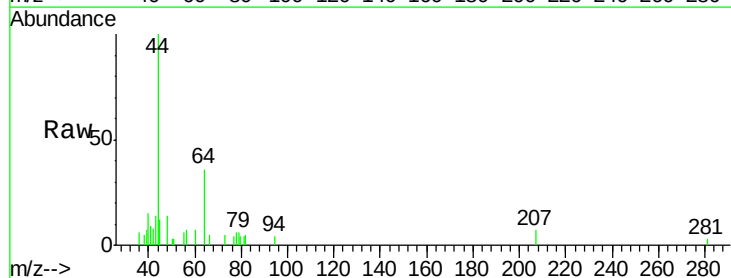
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-BOTTOM

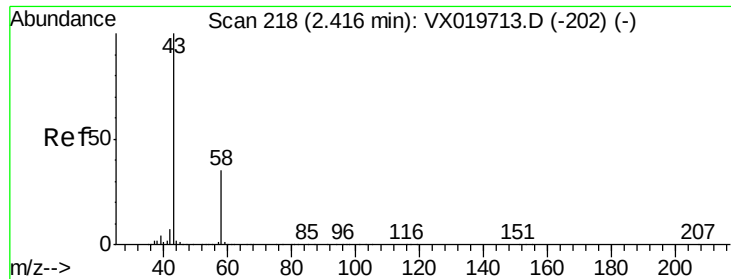
Tgt Ion: 59 Resp: 6622
Ion Ratio Lower Upper
59 100
57 1.4 7.8 11.8#



#13
Acrolein
Concen: 0.550 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX019945.D
Acq: 12 Dec 2020 20:17

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 50.6 56.4 84.6#





#16

Acetone

Concen: 16.063 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

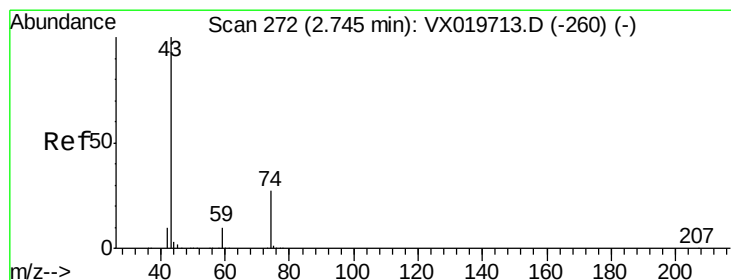
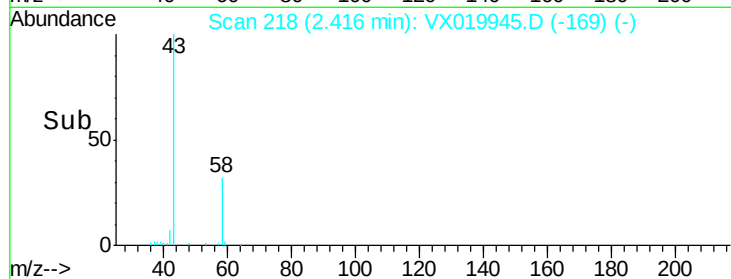
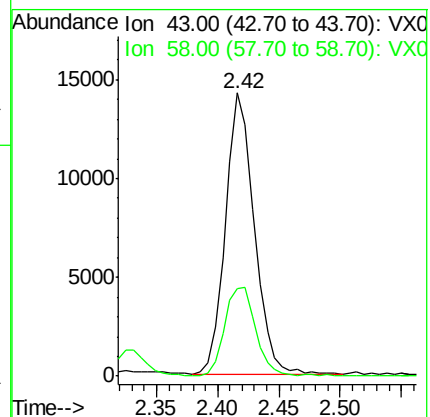
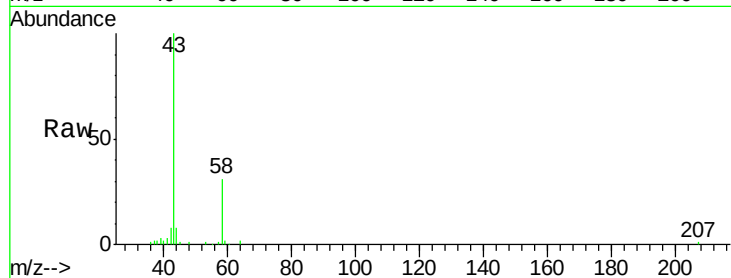
TR3-B-BOTTOM

Tgt Ion: 43 Resp: 23553

Ion Ratio Lower Upper

43 100

58 31.1 27.8 41.8



#18

Methyl Acetate

Concen: 0.921 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019945.D

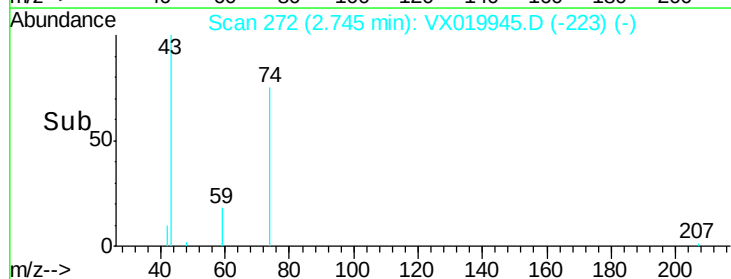
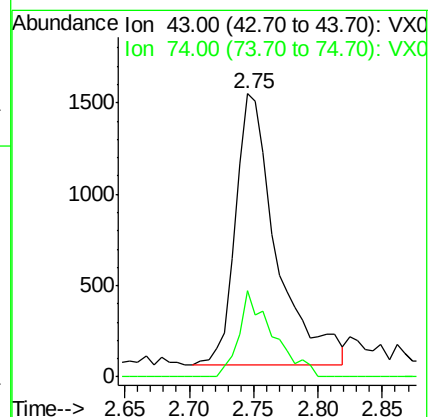
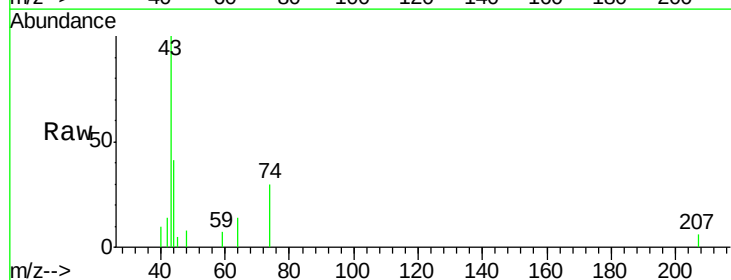
Acq: 12 Dec 2020 20:17

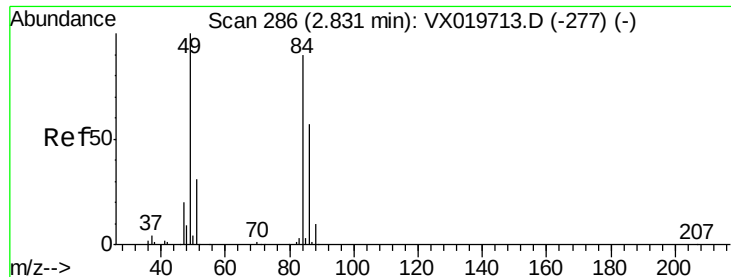
Tgt Ion: 43 Resp: 3305

Ion Ratio Lower Upper

43 100

74 26.4 21.9 32.9

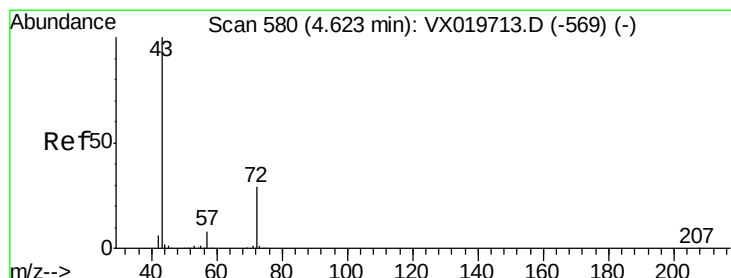
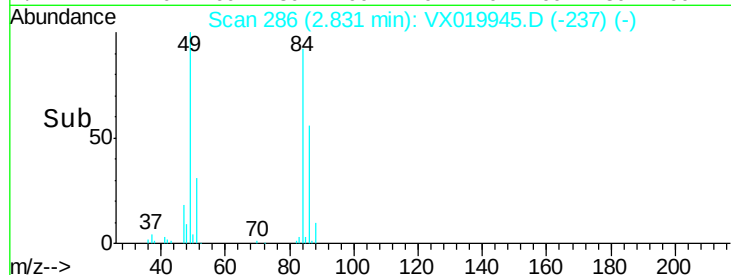
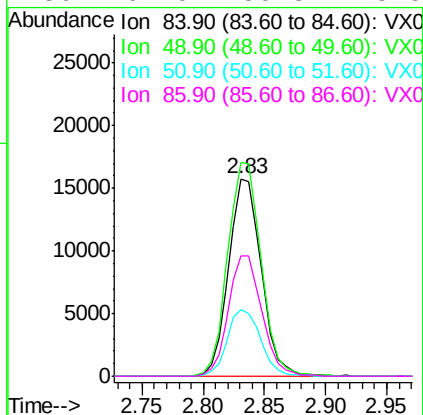
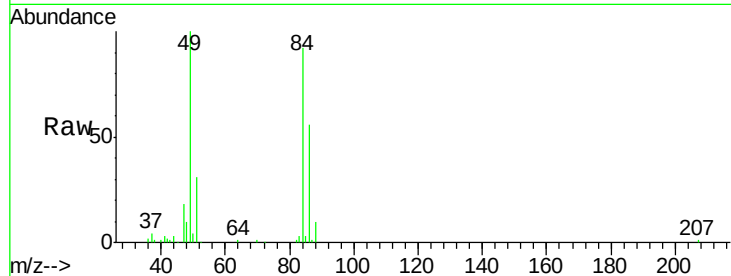




#20
Methylene Chloride
Concen: 7.453 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019945.D
Acq: 12 Dec 2020 20:17

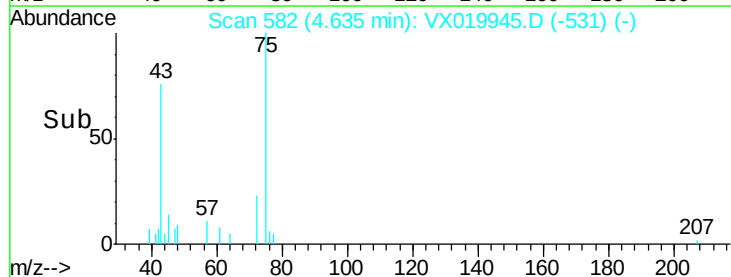
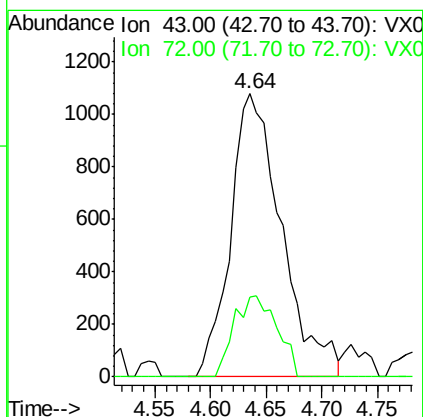
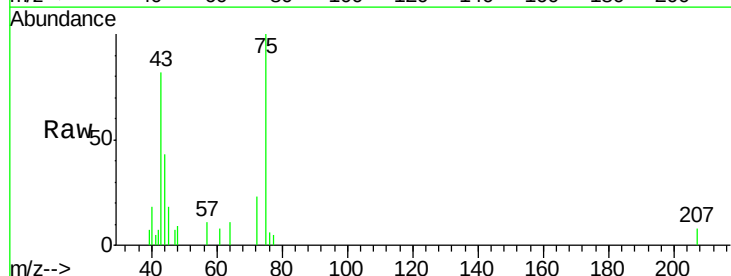
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-BOTTOM

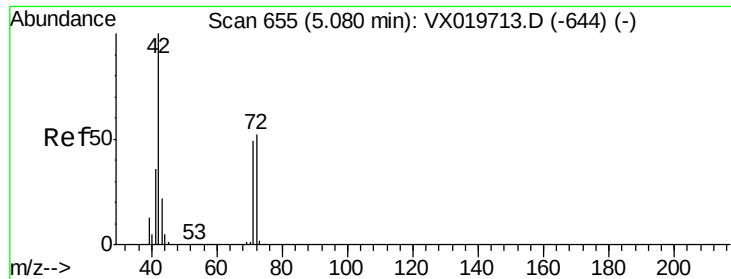
Tgt Ion:	84	Resp:	29001
Ion	Ratio	Lower	Upper
84	100		
49	108.3	88.6	132.8
51	33.6	27.0	40.6
86	61.0	50.3	75.5



#25
2-Butanone
Concen: 1.525 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX019945.D
Acq: 12 Dec 2020 20:17

Tgt Ion:	43	Resp:	3435
Ion	Ratio	Lower	Upper
43	100		
72	28.4	23.7	35.5

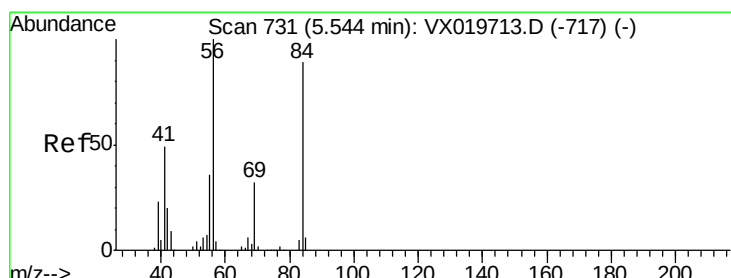
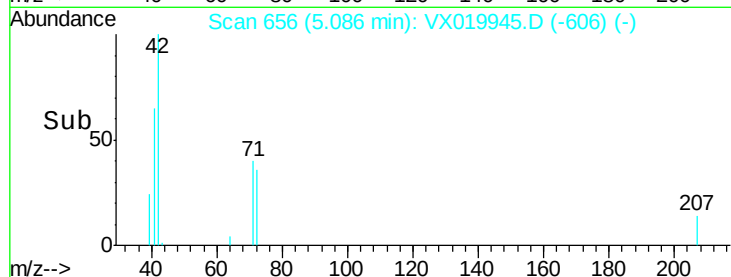
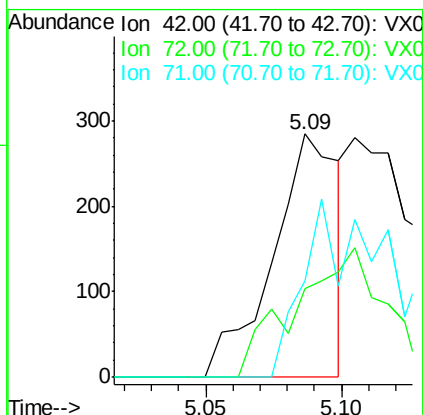
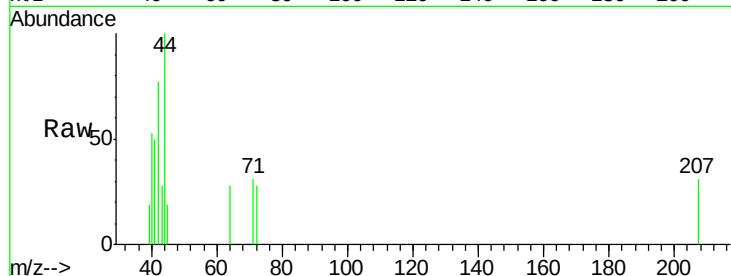




#29
Tetrahydrofuran
Concen: 0.329 ug/l
RT: 5.09 min Scan# 656
Delta R.T. 0.01 min
Lab File: VX019945.D
Acq: 12 Dec 2020 20:17

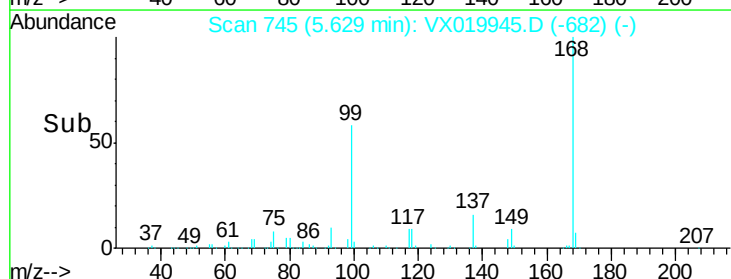
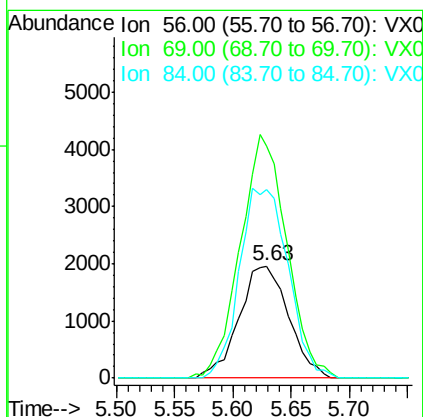
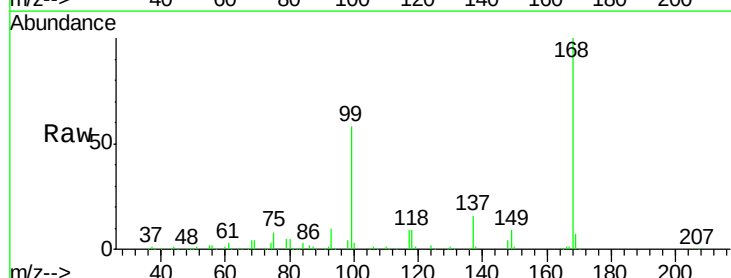
Instrument :
MSVOA_X
ClientSampleId :
TR3-B-BOTTOM

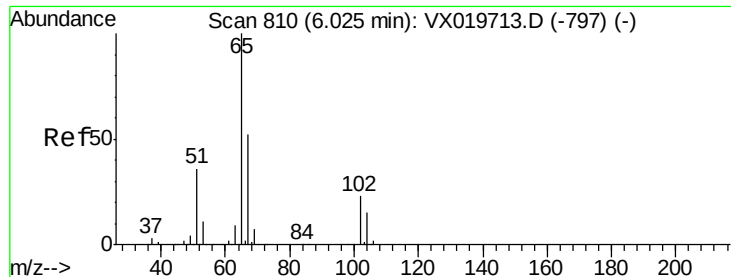
Tgt Ion: 42 Resp: 478
Ion Ratio Lower Upper
42 100
72 70.5 41.7 62.5#
71 38.5 38.4 57.6



#31
Cyclohexane
Concen: 1.196 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019945.D
Acq: 12 Dec 2020 20:17

Tgt Ion: 56 Resp: 5805
Ion Ratio Lower Upper
56 100
69 207.5 25.3 37.9#
84 168.2 71.4 107.0#

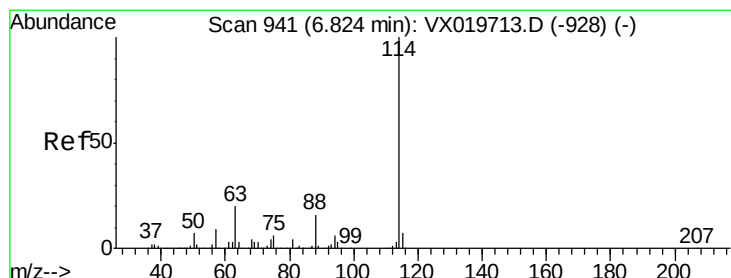
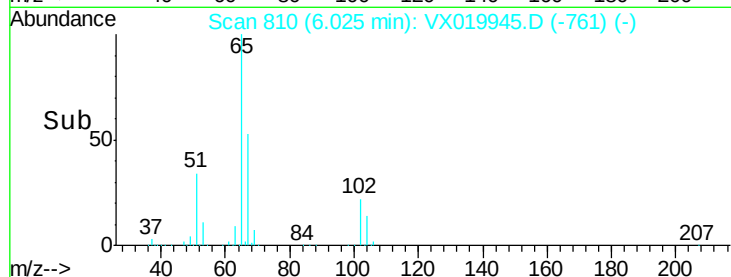
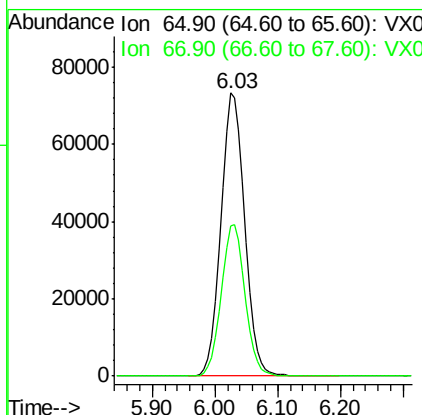
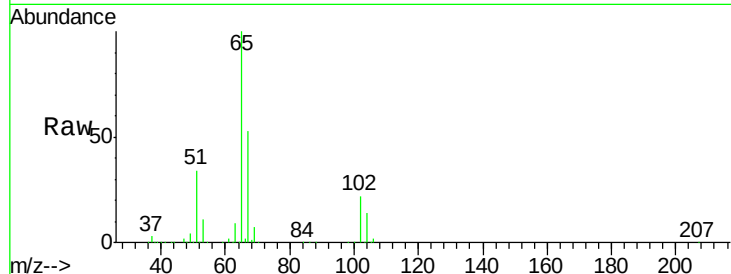




#33
 1,2-Dichloroethane-d4
 Concen: 49.246 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019945.D
 Acq: 12 Dec 2020 20:17

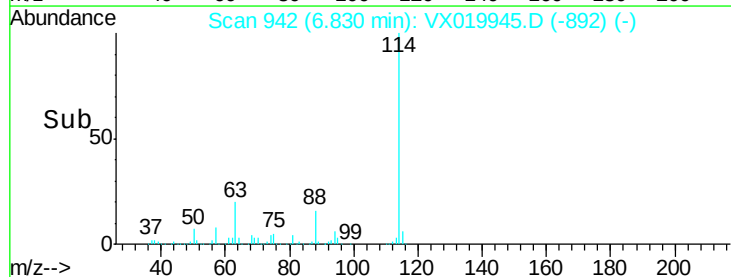
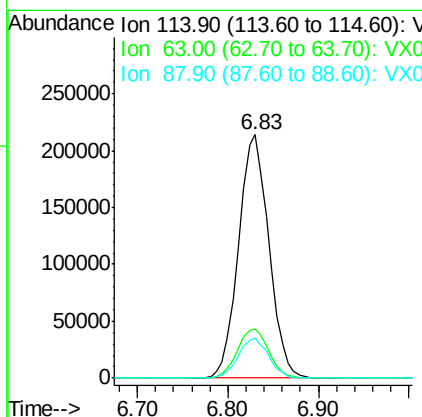
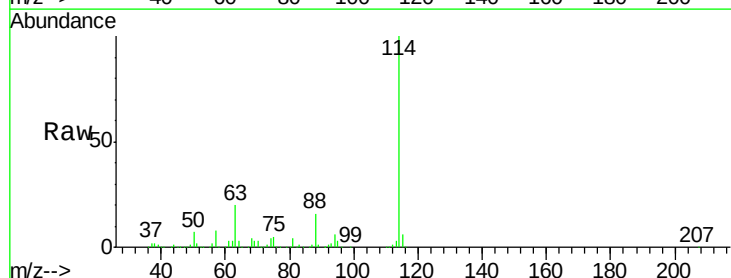
Instrument :
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 TR3-B-BOTTOM

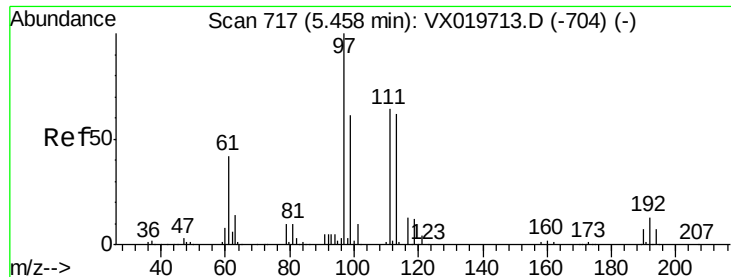
Tgt Ion: 65 Resp: 192108
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019945.D
 Acq: 12 Dec 2020 20:17

Tgt Ion: 114 Resp: 495828
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.8
 88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.452 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

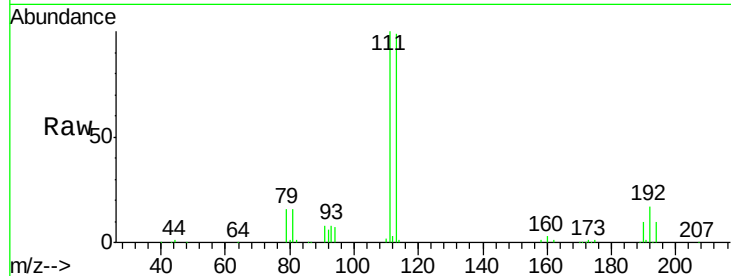
Tgt Ion:113 Resp: 155264

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

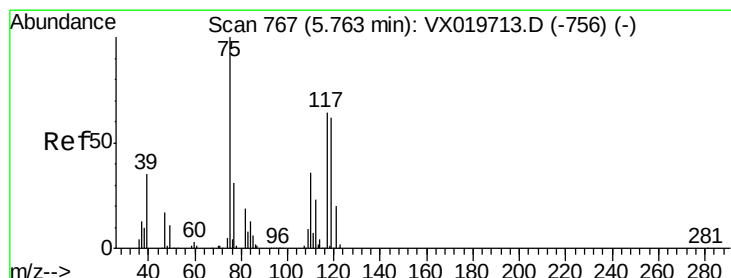
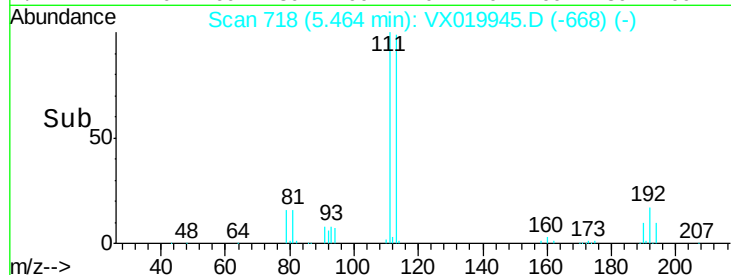
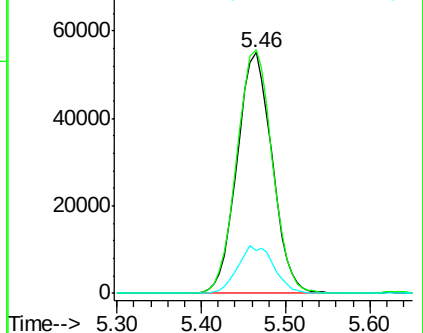
192 20.2 16.7 25.1



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: 5.242 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

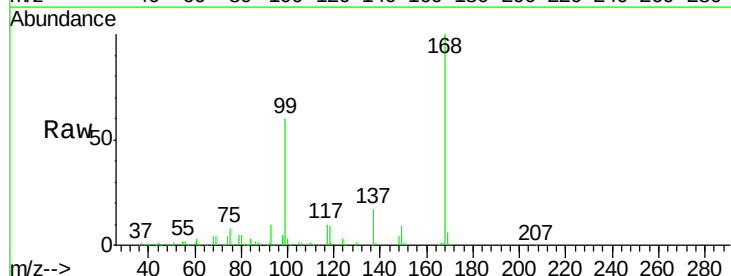
Tgt Ion: 75 Resp: 23486

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

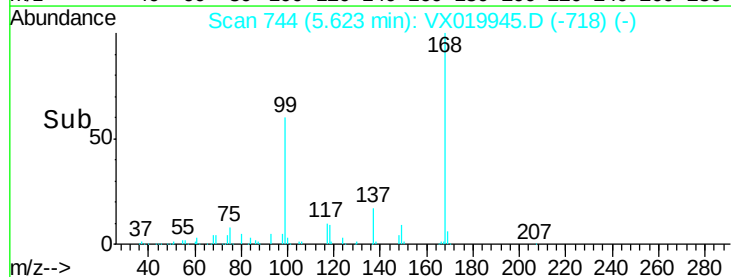
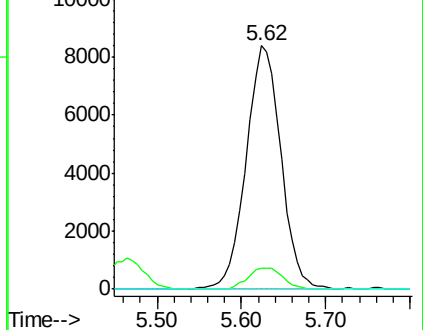
77 0.0 25.3 37.9#

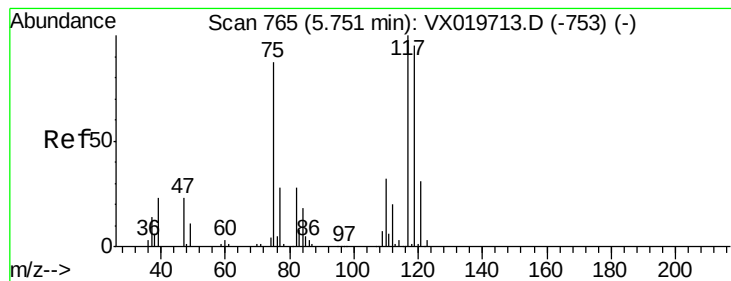


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.638 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

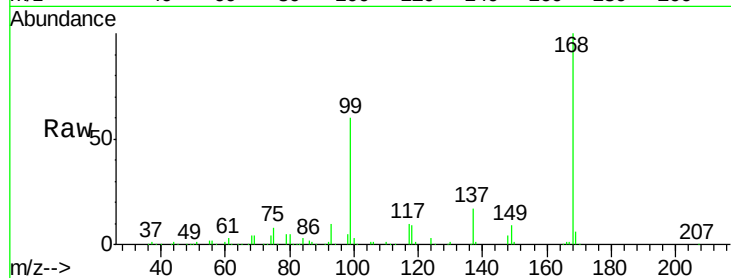
Tgt Ion:117 Resp: 29125

Ion Ratio Lower Upper

117 100

119 5.6 76.2 114.2#

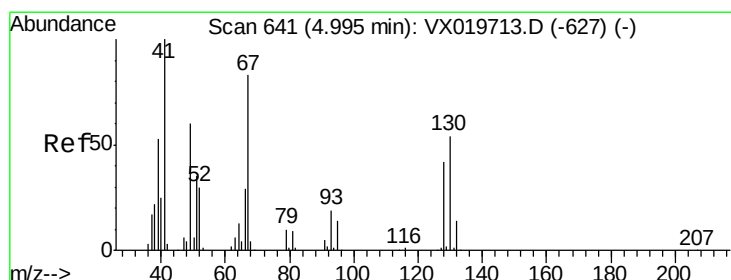
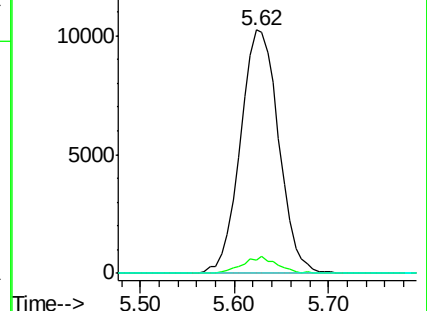
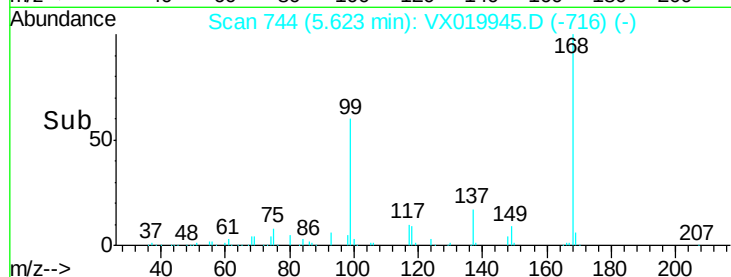
121 0.0 24.8 37.2#



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



#41

Methacrylonitrile

Concen: 0.287 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.12 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Tgt Ion: 41 Resp: 712

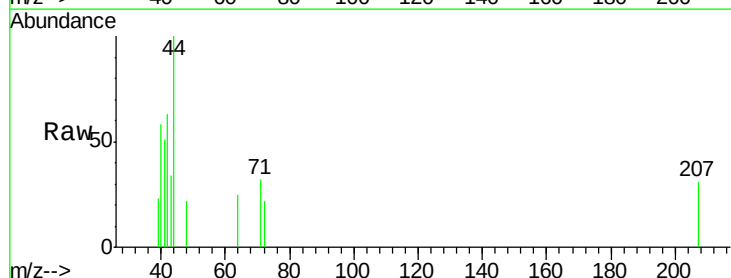
Ion Ratio Lower Upper

41 100

39 29.1 42.5 63.7#

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

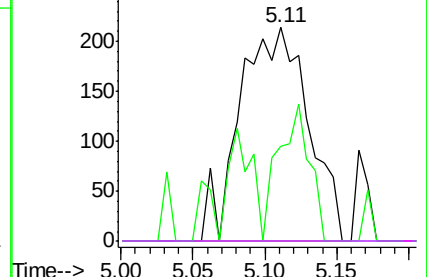
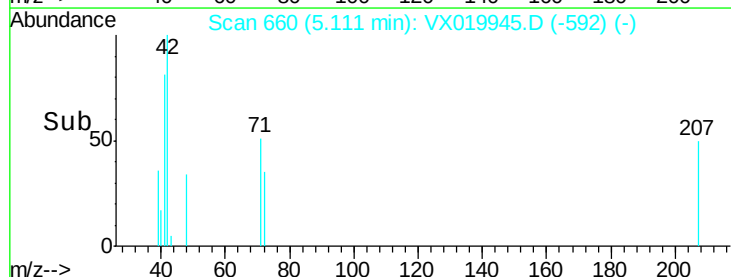


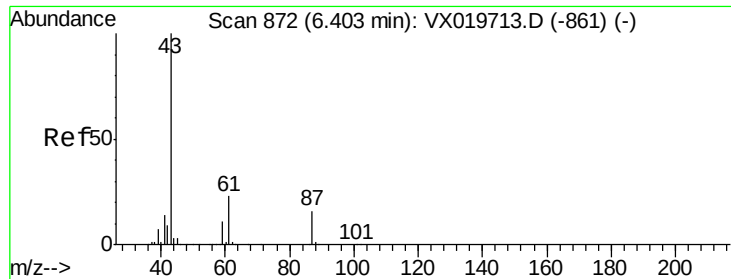
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 2.894 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

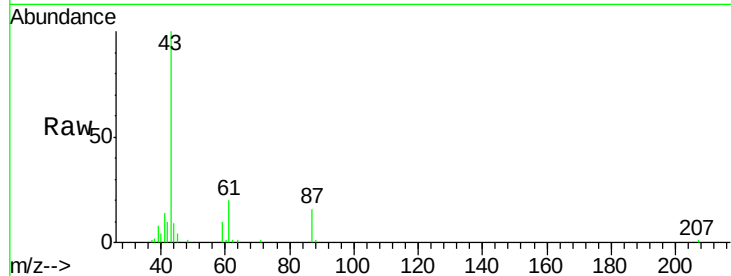
Tgt Ion: 43 Resp: 21286

Ion Ratio Lower Upper

43 100

61 21.3 18.2 27.4

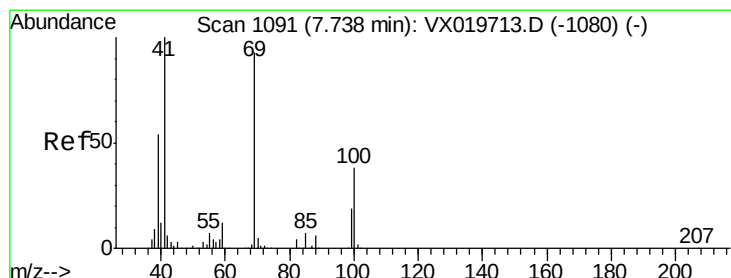
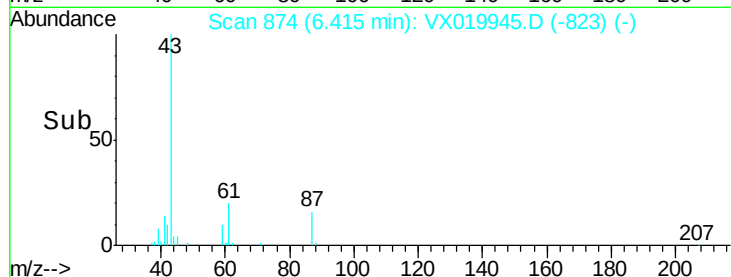
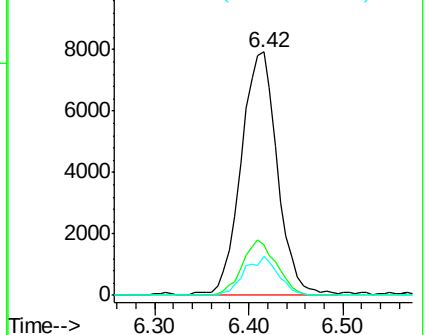
87 14.9 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.740 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

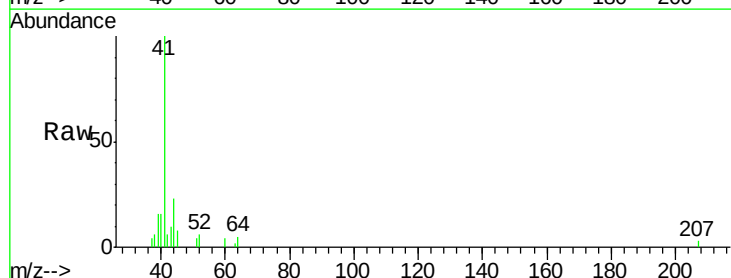
Tgt Ion: 41 Resp: 6293

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

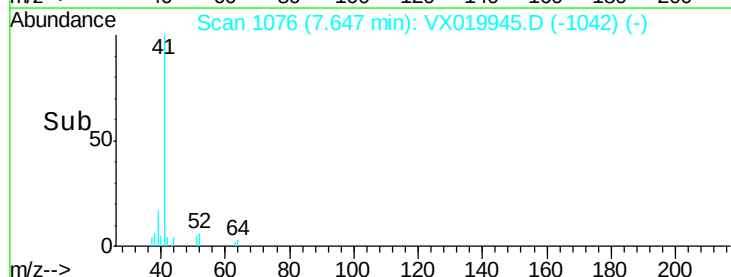
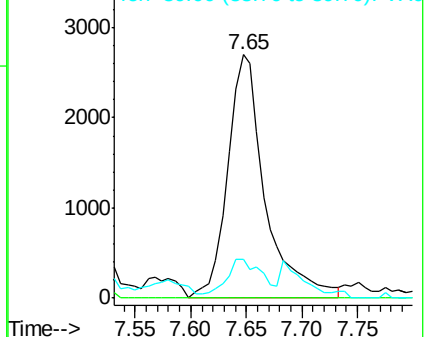
39 0.0 44.6 67.0#

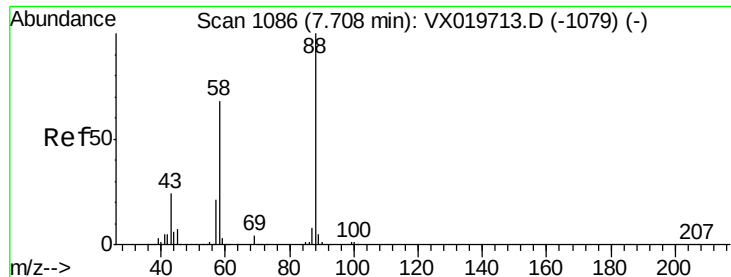


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.979 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

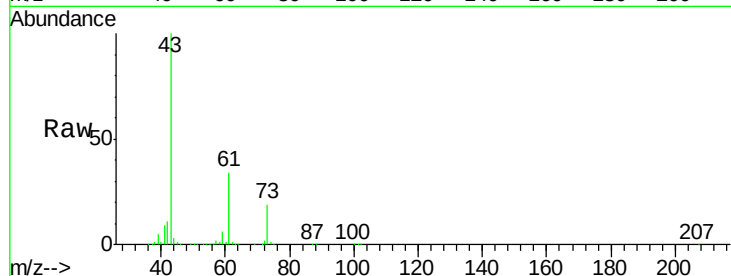
Tgt Ion: 88 Resp: 261

Ion Ratio Lower Upper

88 100

43 459940.2 23.2 34.8#

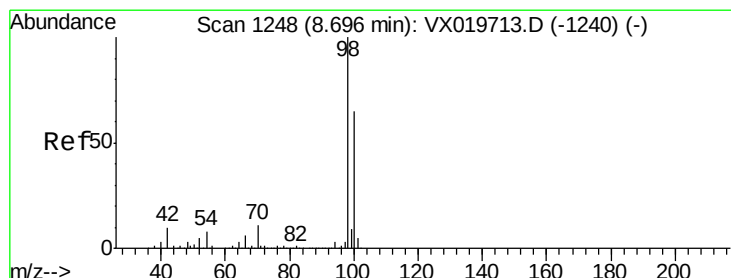
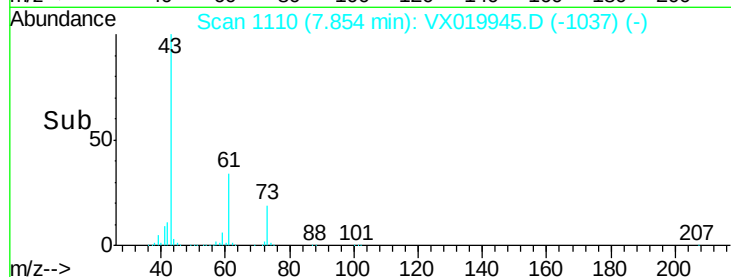
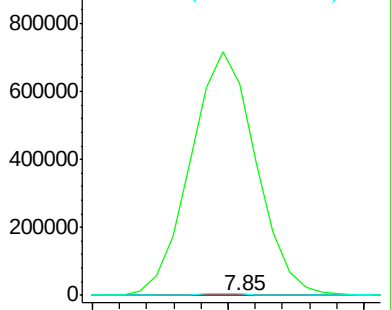
58 2473.9 55.0 82.4#



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



#50

Toluene-d8

Concen: 50.824 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019945.D

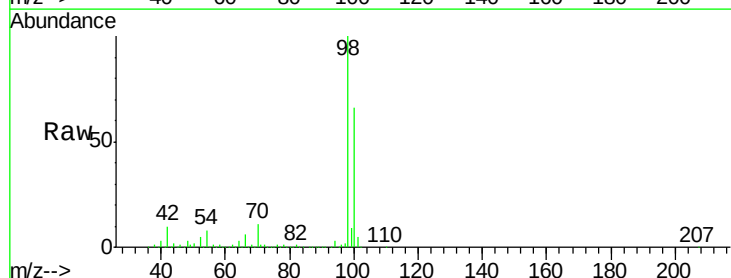
Acq: 12 Dec 2020 20:17

Tgt Ion: 98 Resp: 621770

Ion Ratio Lower Upper

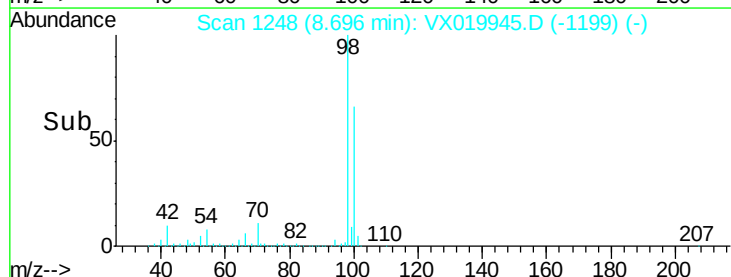
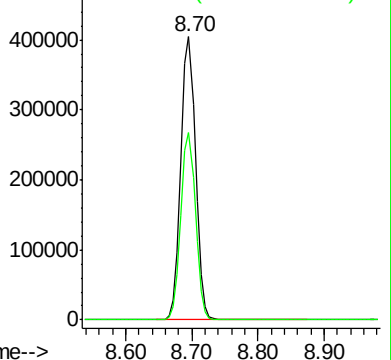
98 100

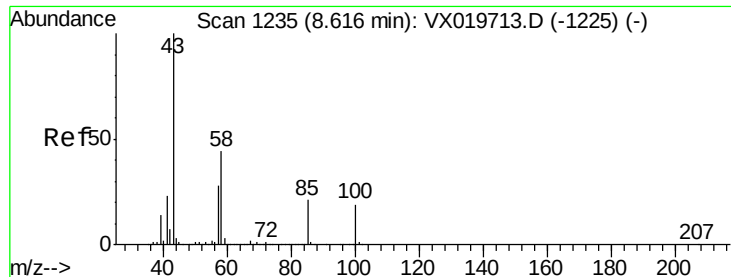
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

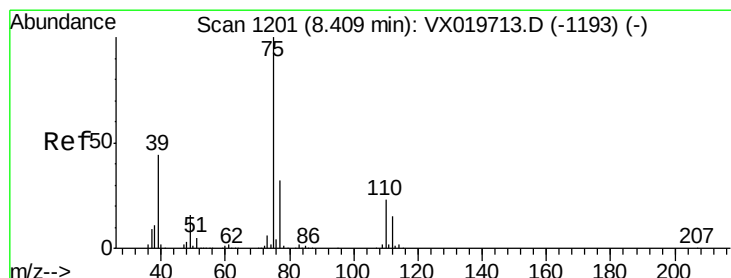
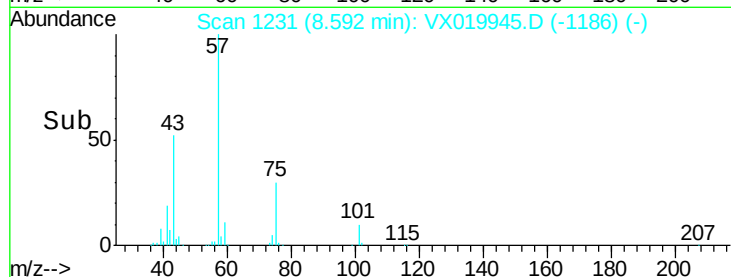
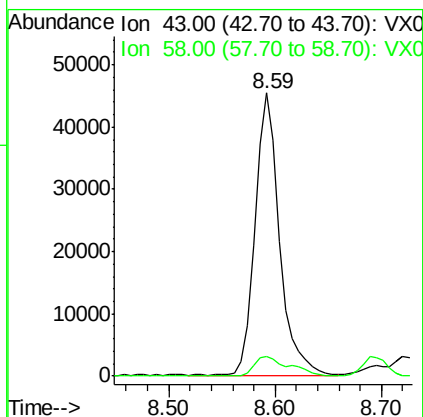
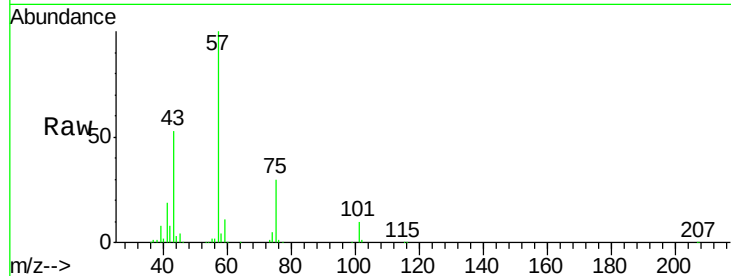




#51
 4-Methyl-2-Pentanone
 Concen: 16.225 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VX019945.D
 Acq: 12 Dec 2020 20:17

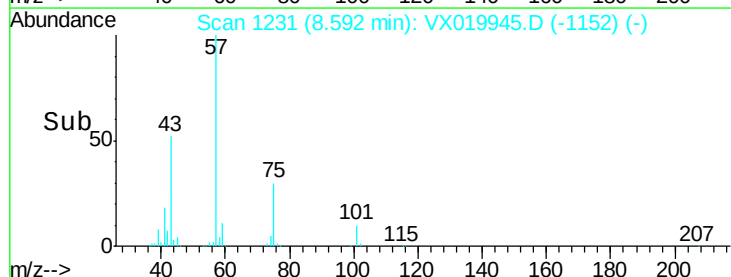
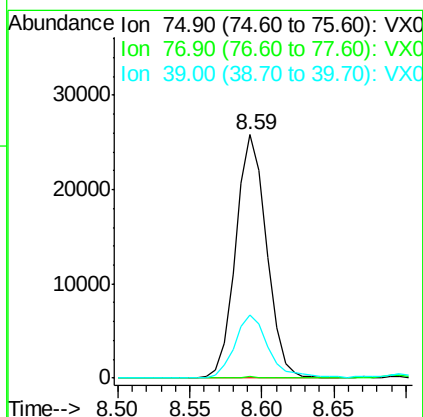
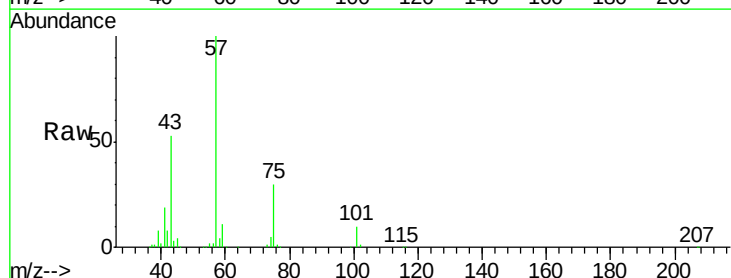
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-BOTTOM

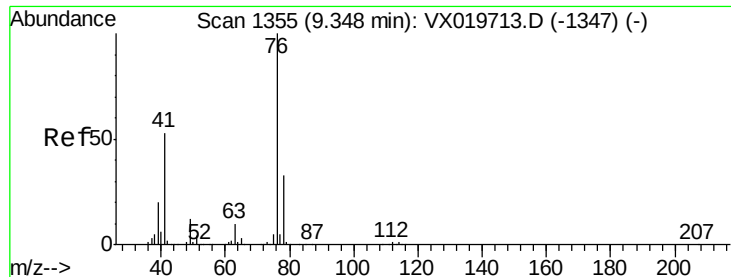
Tgt Ion: 43 Resp: 72855
 Ion Ratio Lower Upper
 43 100
 58 9.9 35.4 53.0#



#54
 cis-1,3-Dichloropropene
 Concen: 6.973 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019945.D
 Acq: 12 Dec 2020 20:17

Tgt Ion: 75 Resp: 38531
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 25.6 35.1 52.7#

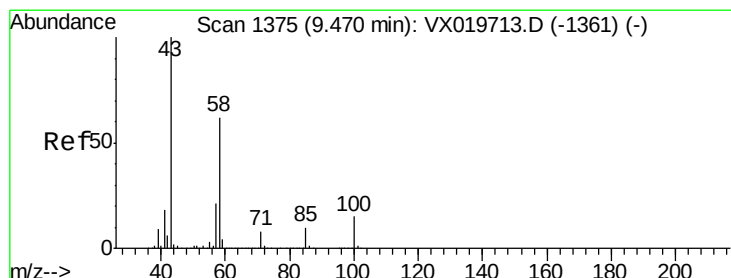
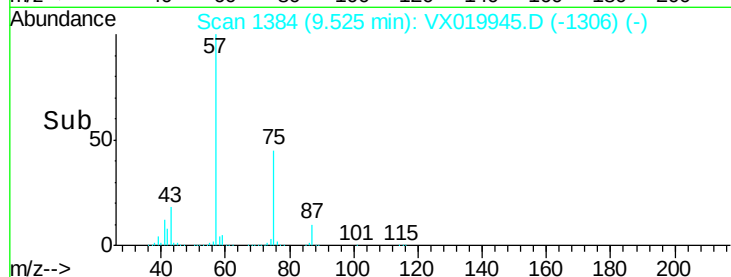
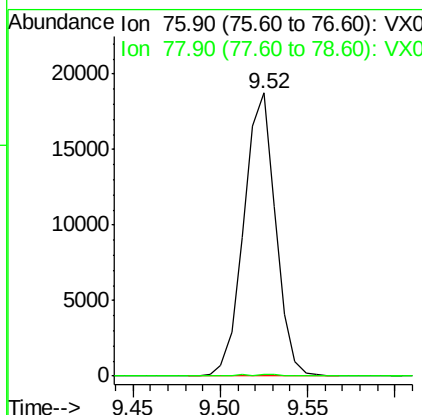
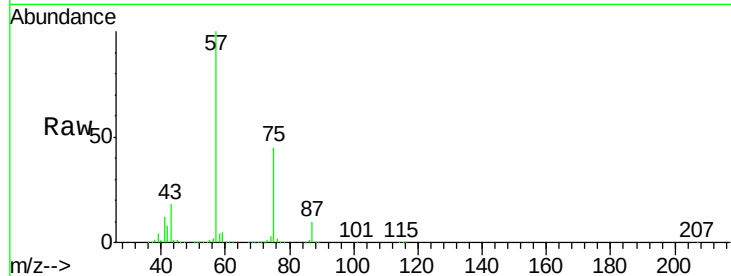




#57
 1,3-Dichloropropane
 Concen: 4.024 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019945.D
 Acq: 12 Dec 2020 20:17

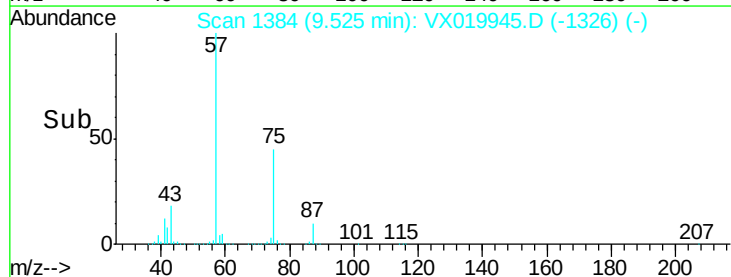
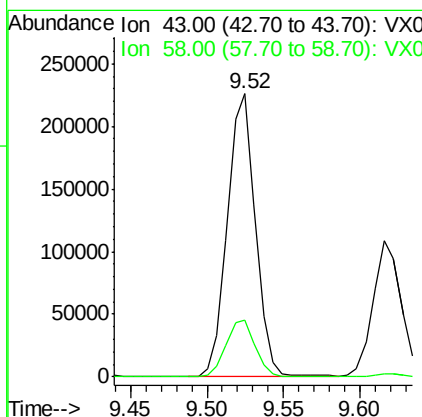
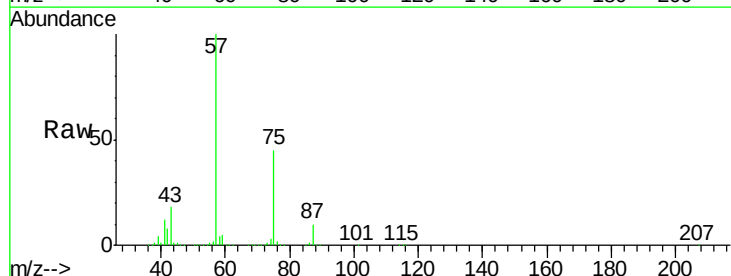
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-B-BOTTOM

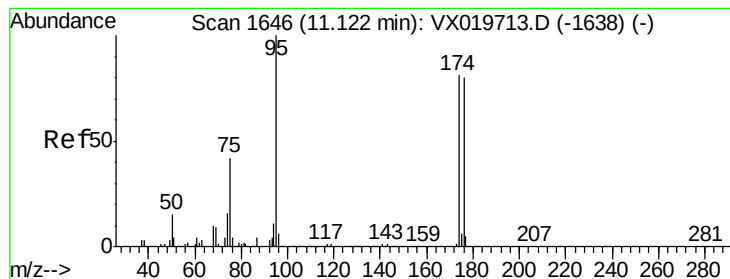
Tgt Ion: 76 Resp: 23701
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.2 39.2#



#59
 2-Hexanone
 Concen: 82.422 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019945.D
 Acq: 12 Dec 2020 20:17

Tgt Ion: 43 Resp: 286877
 Ion Ratio Lower Upper
 43 100
 58 20.9 30.9 92.8#





#62

4-Bromofluorobenzene

Concen: 45.611 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

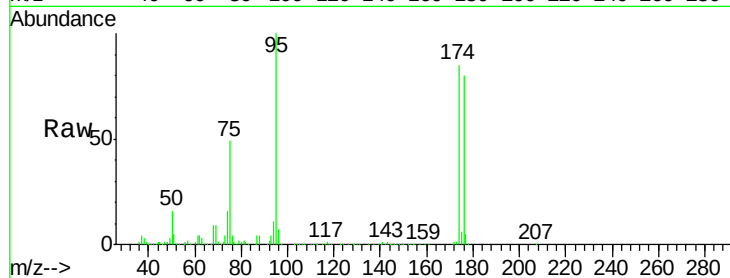
Tgt Ion: 95 Resp: 212379

Ion Ratio Lower Upper

95 100

174 77.2 0.0 154.6

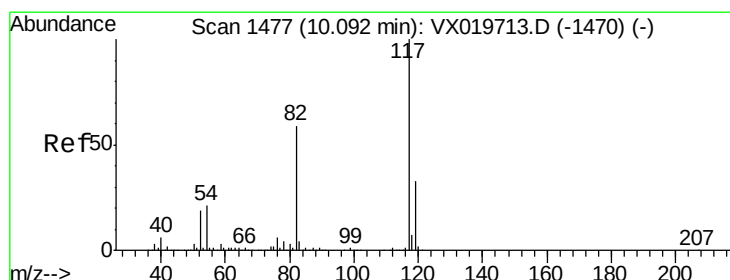
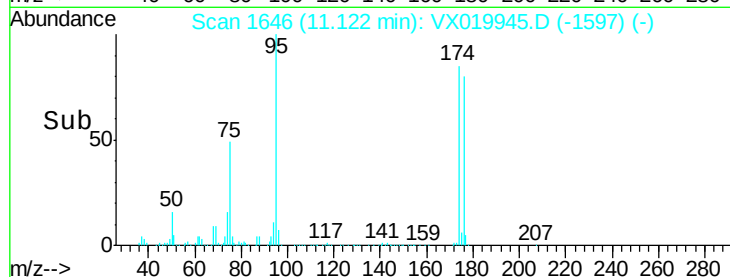
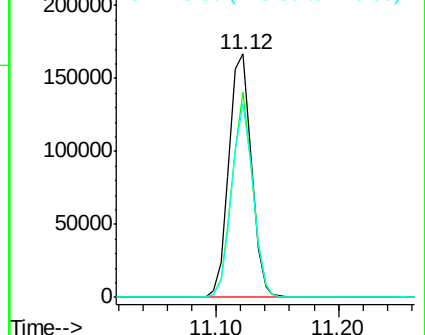
176 74.8 0.0 155.8



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. 0.01 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

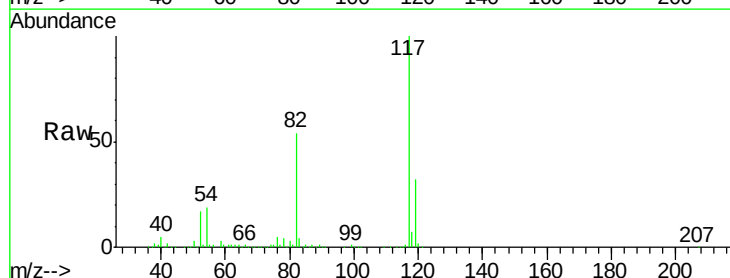
Tgt Ion: 117 Resp: 468692

Ion Ratio Lower Upper

117 100

82 53.5 47.4 71.2

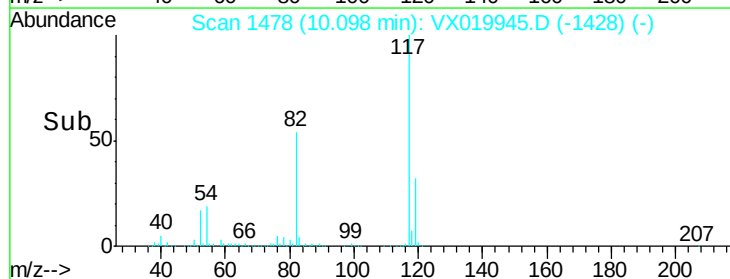
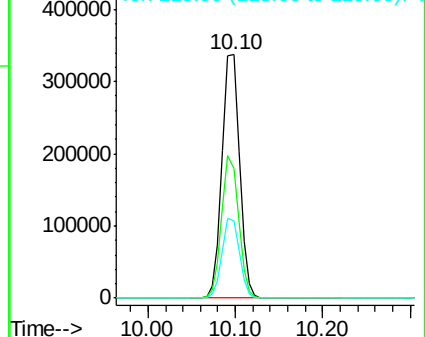
119 31.9 26.6 39.8

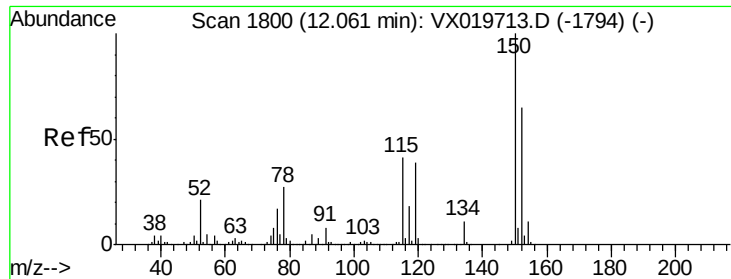


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

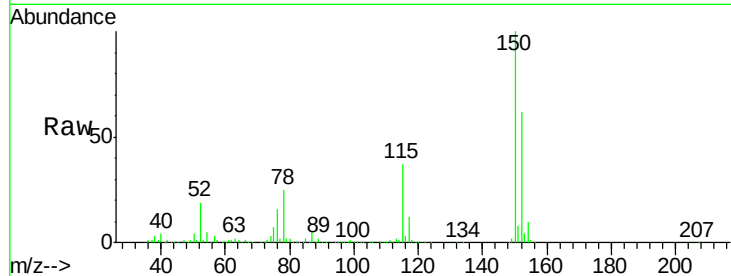
Tgt Ion:152 Resp: 195951

Ion Ratio Lower Upper

152 100

115 59.2 41.1 123.3

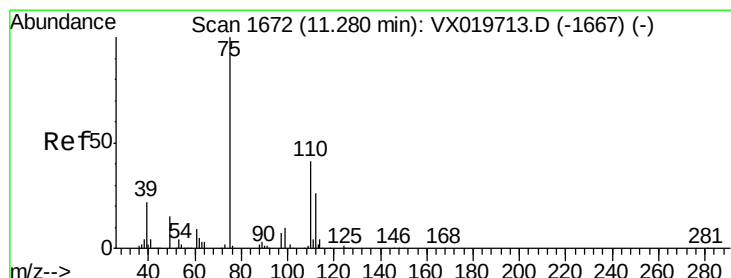
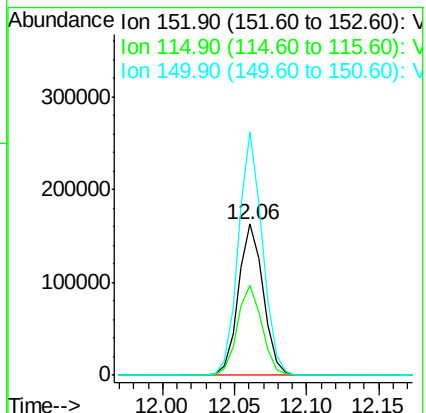
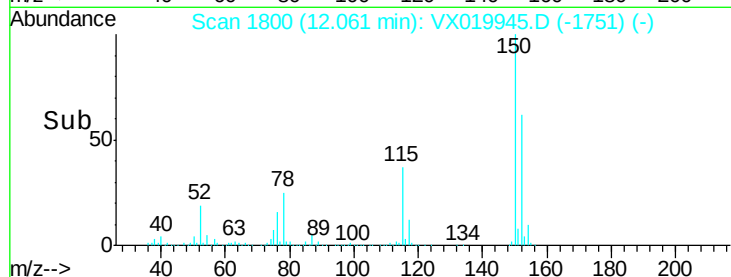
150 154.9 0.0 349.0



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: 23.465 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019945.D

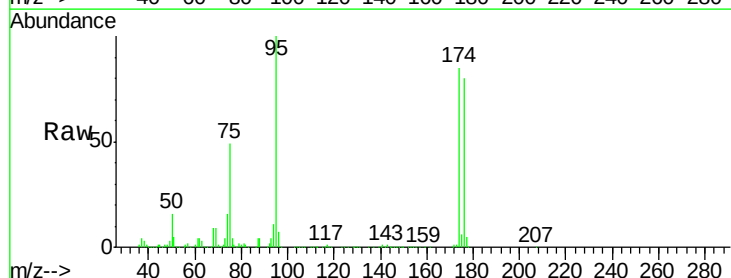
Acq: 12 Dec 2020 20:17

Tgt Ion: 75 Resp: 103125

Ion Ratio Lower Upper

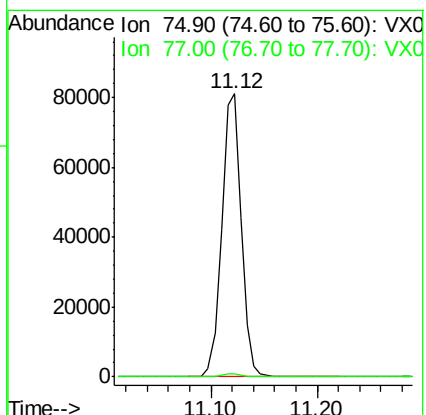
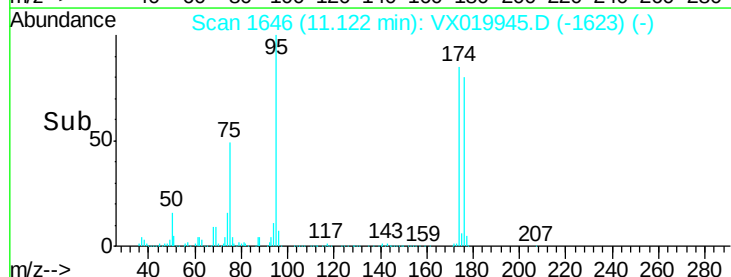
75 100

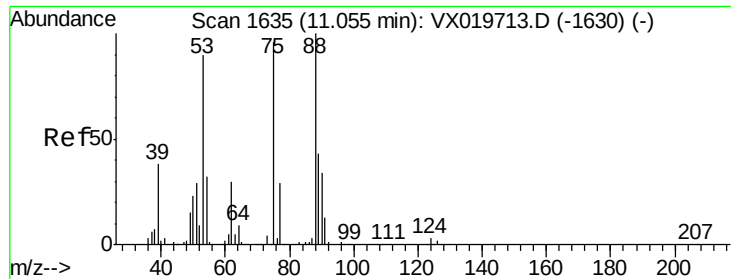
77 1.2 19.1 57.5#



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: 67.833 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019945.D

Acq: 12 Dec 2020 20:17

Instrument :

MSVOA_X

ClientSampleId :

TR3-B-BOTTOM

Tgt Ion: 75 Resp: 103125

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

