

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121220\
 Data File : VX019949.D
 Acq On : 12 Dec 2020 21:50
 Operator : JC/MD
 Sample : L4984-11
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-D-BOTTOM

Quant Time: Dec 14 08:21:12 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	307333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	509128	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	476972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	203413	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	198777	49.21	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.42%	
35) Dibromofluoromethane		5.46	113	159097	48.35	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.70%	
50) Toluene-d8		8.70	98	629471	50.11	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	100.22%	
62) 4-Bromofluorobenzene		11.12	95	218027	45.60	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.20%	

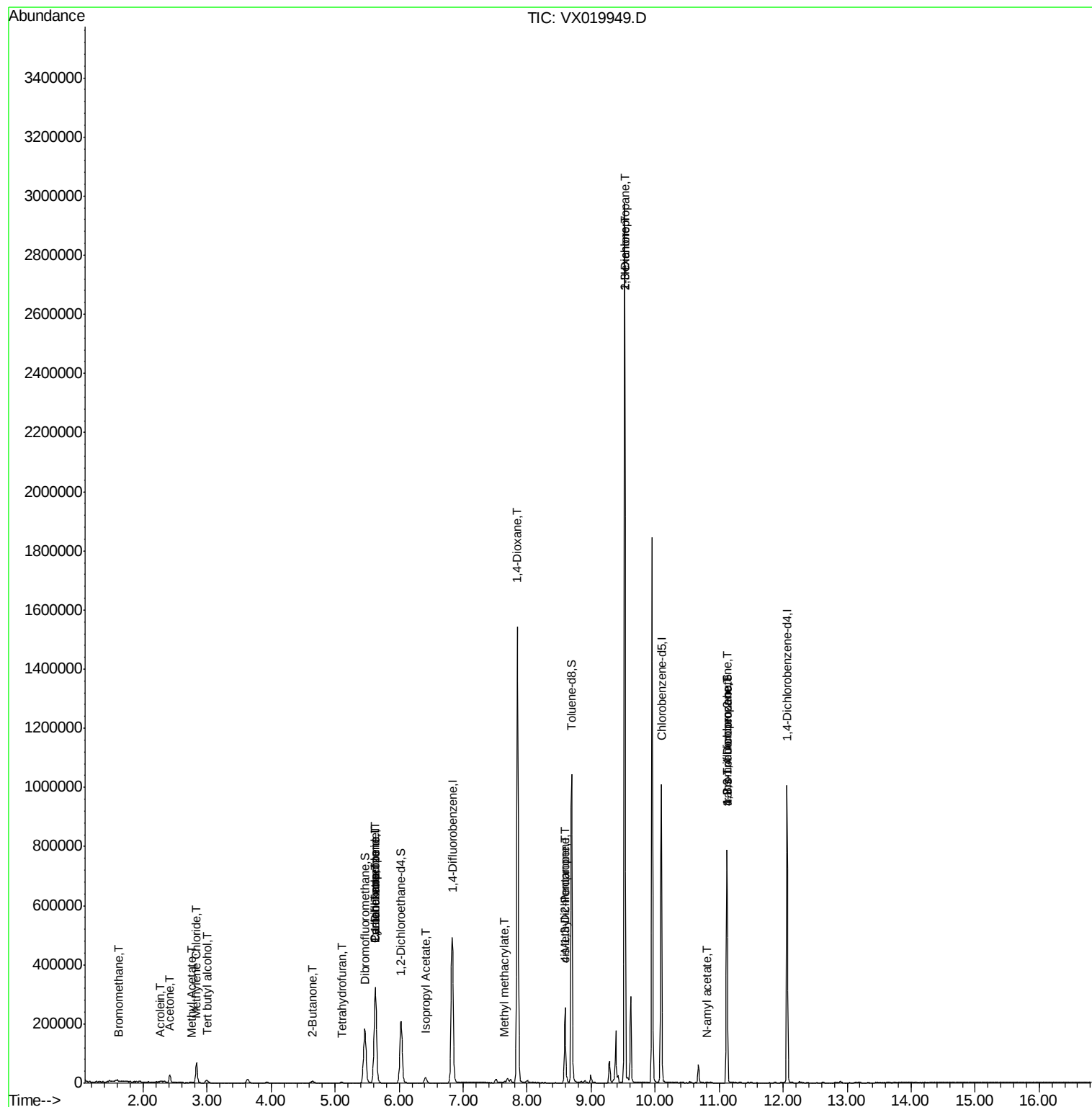
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	253	0.218	ug/l	85
11) Tert butyl alcohol	2.99	59	6894	5.749	ug/l #	78
13) Acrolein	2.27	56	184	0.413	ug/l #	14
16) Acetone	2.42	43	26628	17.539	ug/l	99
18) Methyl Acetate	2.75	43	2386	0.642	ug/l	100
20) Methylene Chloride	2.83	84	33110	8.368	ug/l	98
25) 2-Butanone	4.64	43	3902	1.673	ug/l	93
29) Tetrahydrofuran	5.10	42	1160	0.772	ug/l #	81
31) Cyclohexane	5.62	56	5793	1.153	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22840	4.965	ug/l #	49
38) Carbon Tetrachloride	5.63	117	30024	6.664	ug/l #	17
43) Isopropyl Acetate	6.41	43	23118	3.061	ug/l	98
48) Methyl methacrylate	7.65	41	6779	1.825	ug/l #	10
49) 1,4-Dioxane	7.85	88	234	2.601	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	80048	17.361	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	41758	7.359	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	26068	4.310	ug/l #	43
59) 2-Hexanone	9.52	43	316912	88.673	ug/l #	46
74) N-amyl acetate	10.80	43	1301	0.234	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	105447	23.113	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	105447	66.816	ug/l #	12

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

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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: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

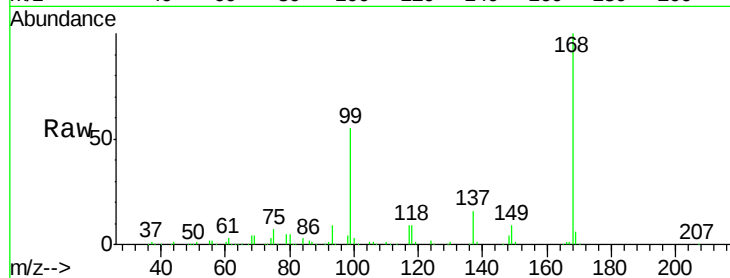
TR3-D-BOTTOM

Tgt Ion:168 Resp: 307333

Ion Ratio Lower Upper

168 100

99 55.1 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

100000

50000

0

Time-->

5.50 5.60 5.70 5.80

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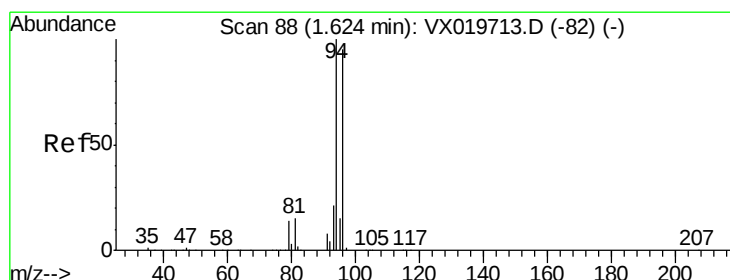
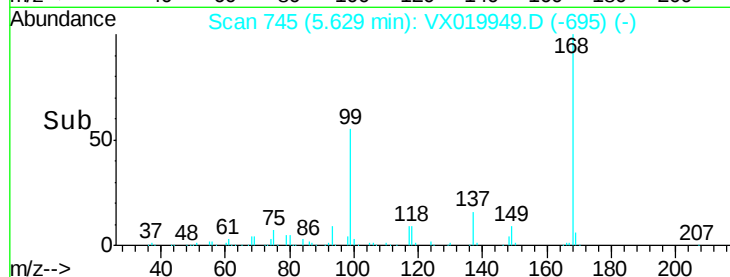
5.63

5.63

5.63

5.63

5.63



#5

Bromomethane

Concen: 0.218 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019949.D

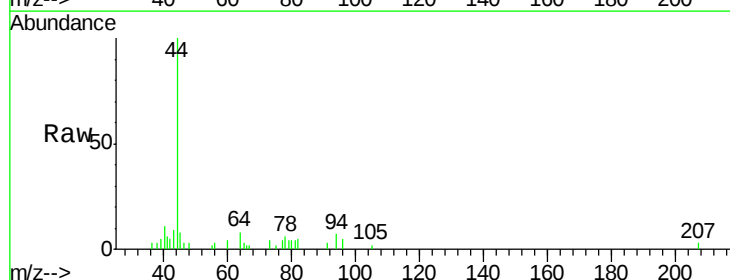
Acq: 12 Dec 2020 21:50

Tgt Ion: 94 Resp: 253

Ion Ratio Lower Upper

94 100

96 80.8 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

150

100

50

0

Time-->

1.60 1.62 1.64 1.66

1.63

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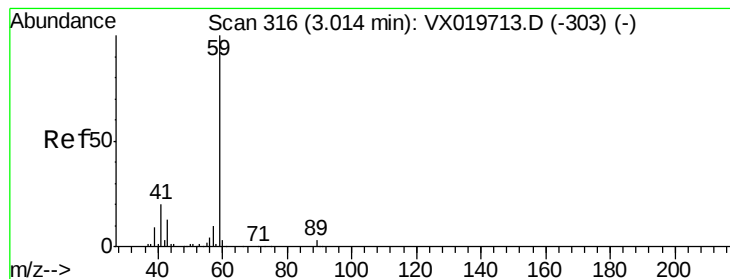
1.63

1.63

1.63

1.63

1.63



#11

Tert butyl alcohol

Concen: 5.749 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

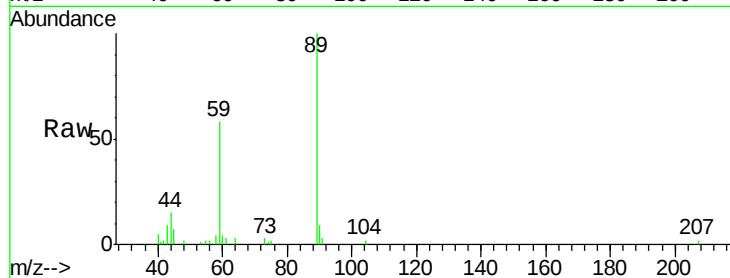
TR3-D-BOTTOM

Tgt Ion: 59 Resp: 6894

Ion Ratio Lower Upper

59 100

57 1.7 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

2500

2000

1500

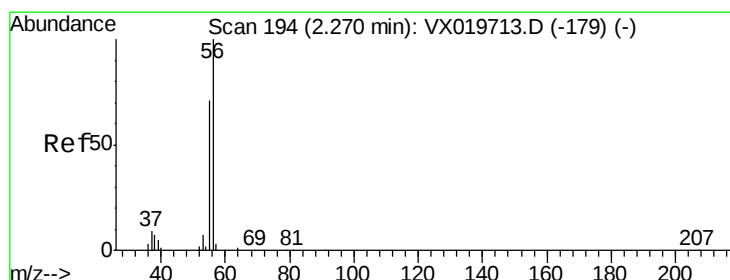
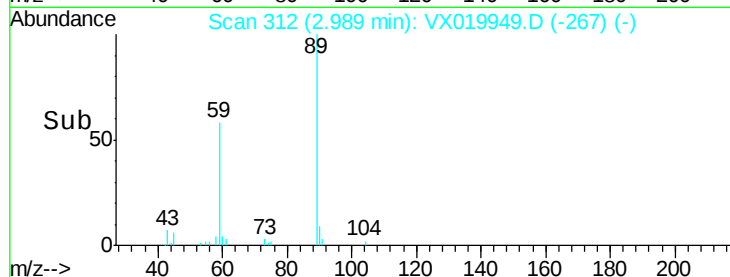
1000

500

0

Time-->

2.90 2.95 3.00 3.05 3.10



#13

Acrolein

Concen: 0.413 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX019949.D

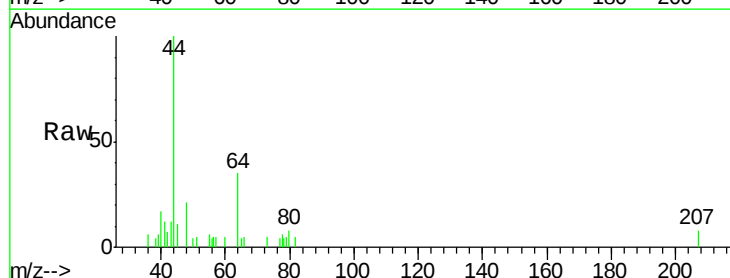
Acq: 12 Dec 2020 21:50

Tgt Ion: 56 Resp: 184

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.27

150

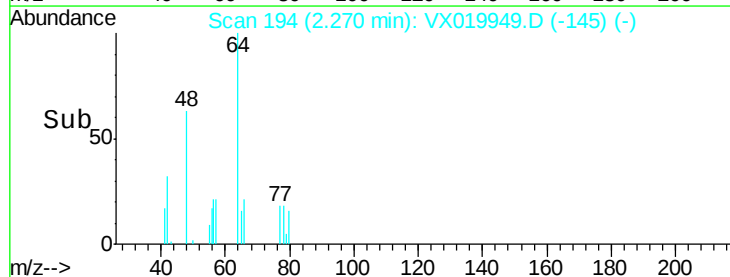
100

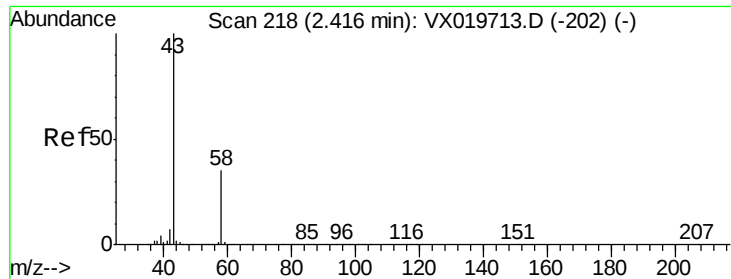
50

0

Time-->

2.24 2.26 2.28 2.30





#16

Acetone

Concen: 17.539 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

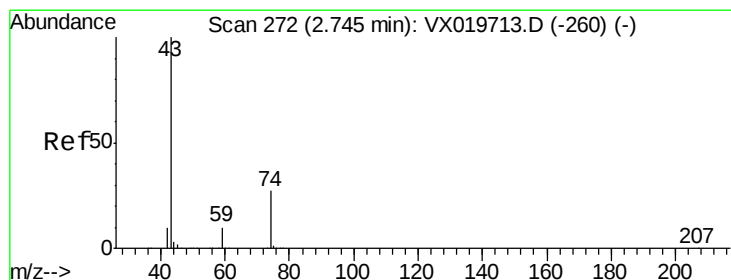
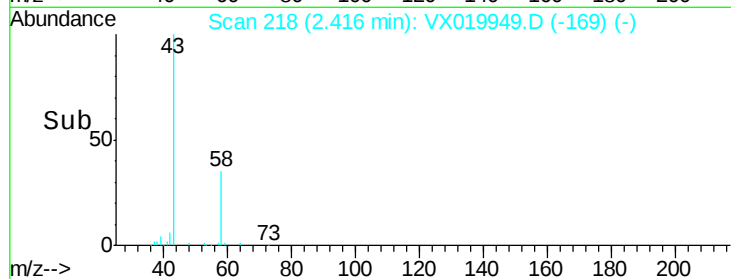
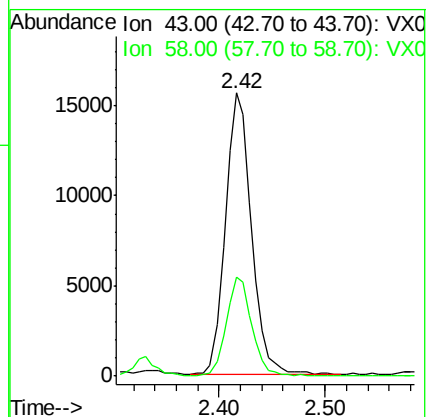
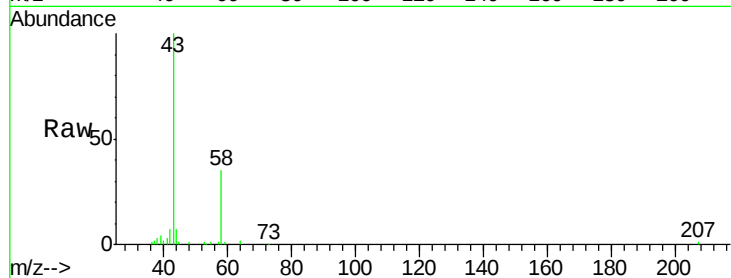
TR3-D-BOTTOM

Tgt Ion: 43 Resp: 26628

Ion Ratio Lower Upper

43 100

58 35.3 27.8 41.8



#18

Methyl Acetate

Concen: 0.642 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019949.D

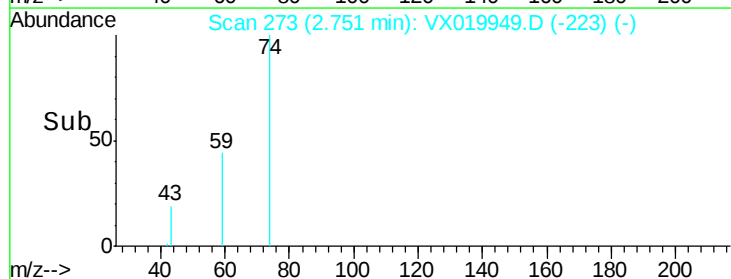
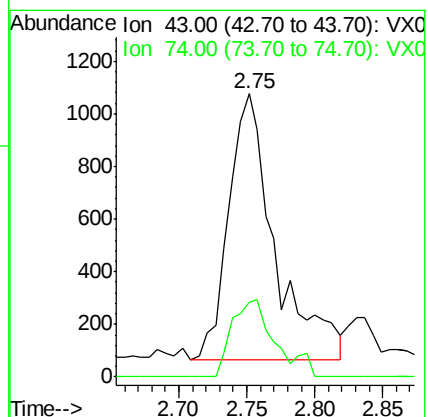
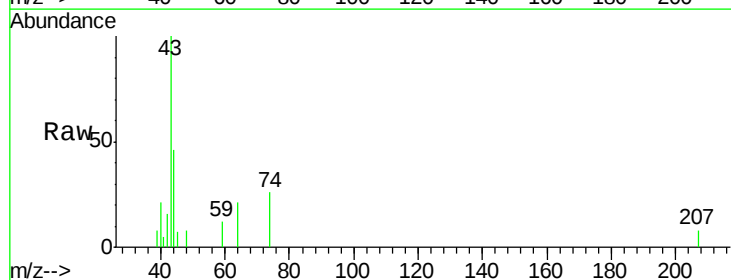
Acq: 12 Dec 2020 21:50

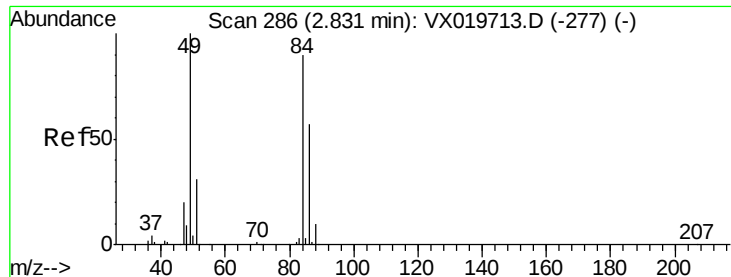
Tgt Ion: 43 Resp: 2386

Ion Ratio Lower Upper

43 100

74 27.2 21.9 32.9

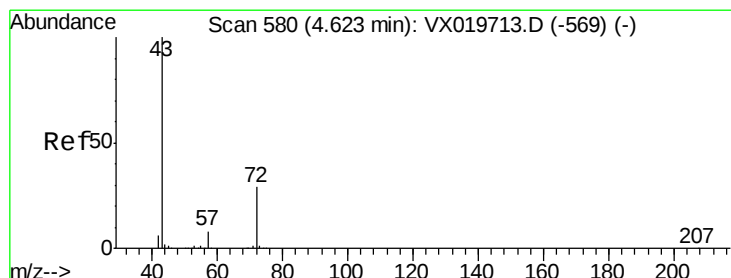
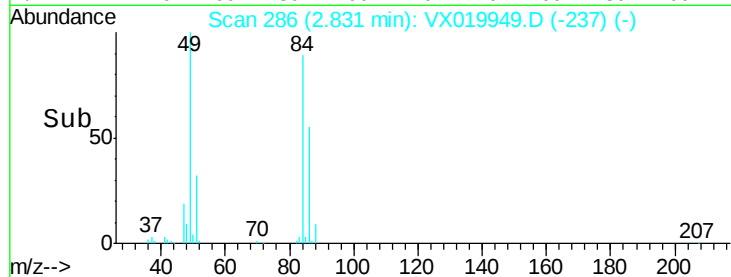
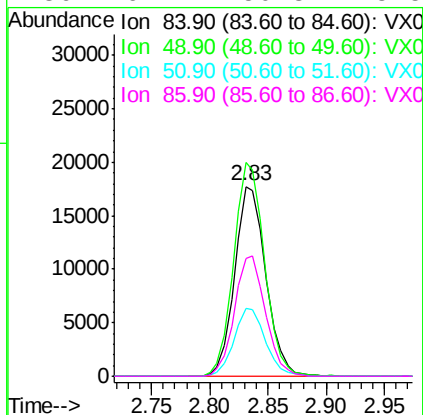
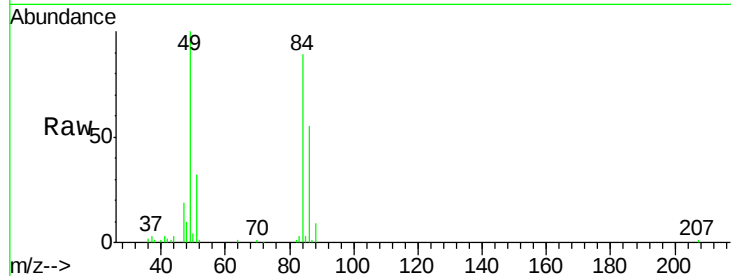




#20
Methylene Chloride
Concen: 8.368 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

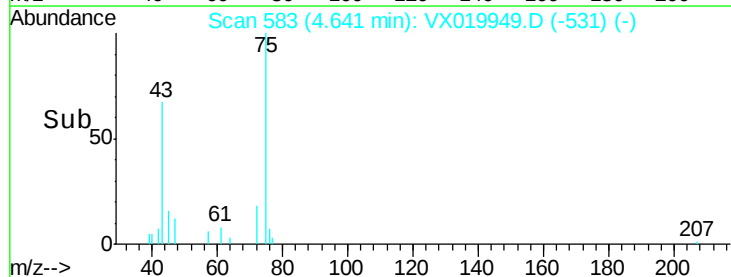
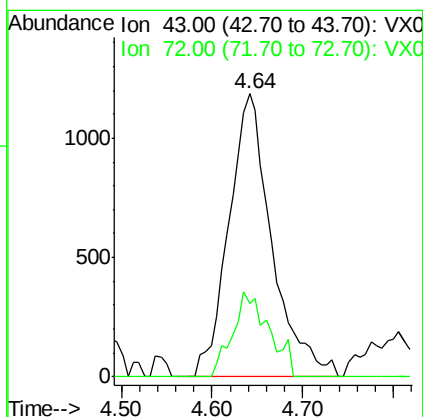
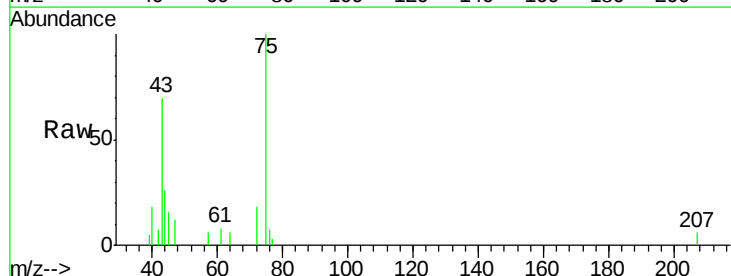
Instrument :
MSVOA_X
ClientSampleId :
TR3-D-BOTTOM

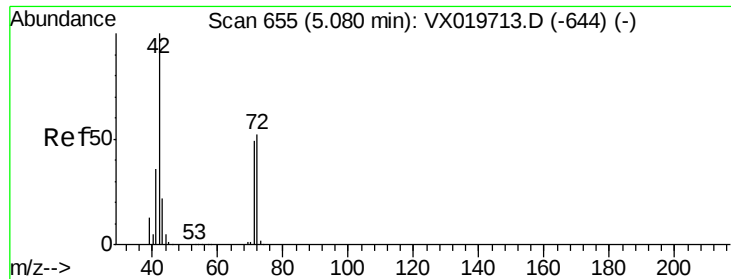
Tgt Ion:	84	Resp:	33110
Ion	Ratio	Lower	Upper
84	100		
49	112.5	88.6	132.8
51	35.8	27.0	40.6
86	62.1	50.3	75.5



#25
2-Butanone
Concen: 1.673 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

Tgt Ion:	43	Resp:	3902
Ion	Ratio	Lower	Upper
43	100		
72	25.7	23.7	35.5

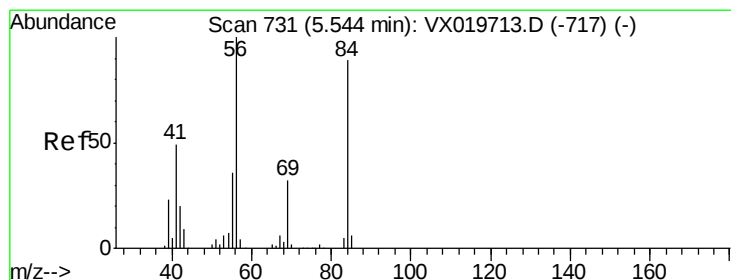
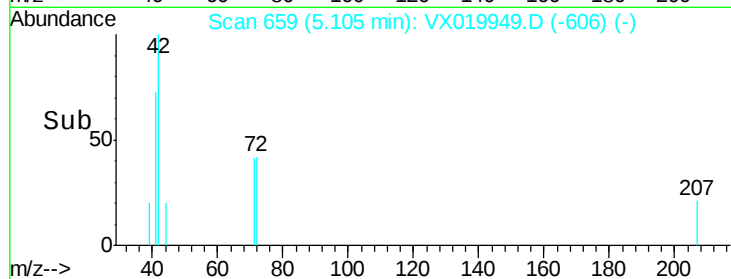
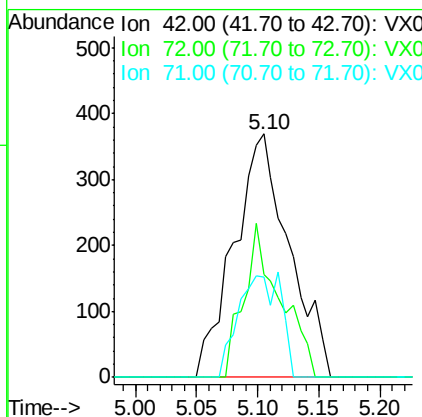
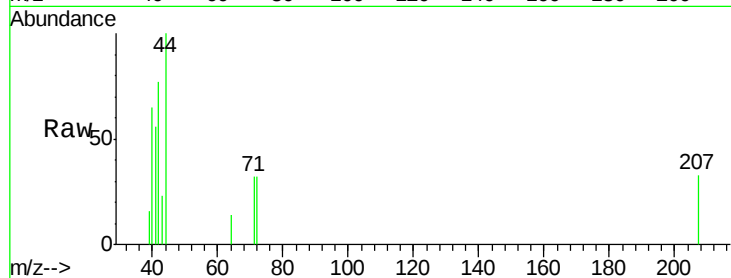




#29
Tetrahydrofuran
Concen: 0.772 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

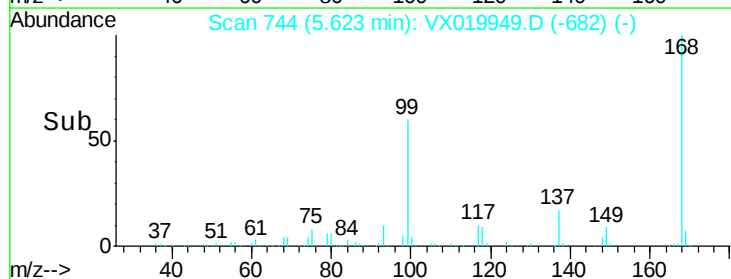
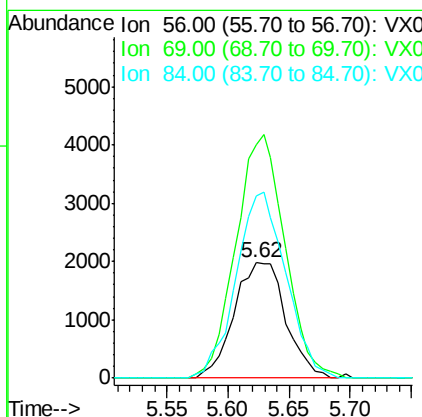
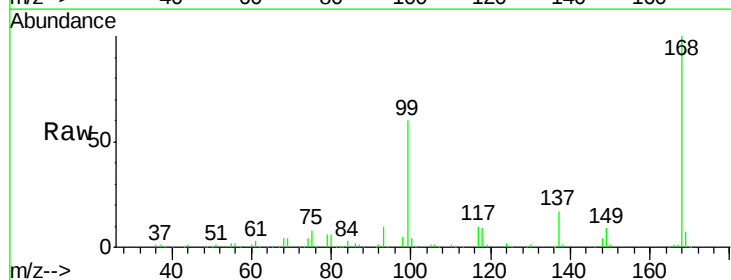
Instrument :
MSVOA_X
ClientSampleId :
TR3-D-BOTTOM

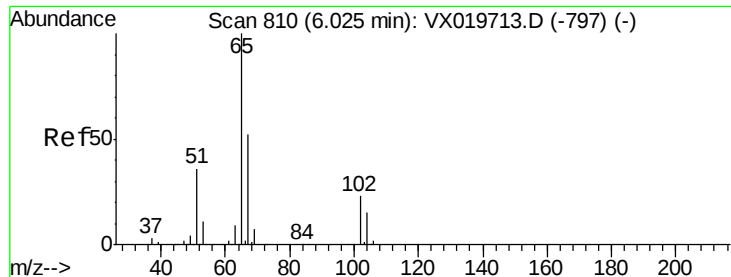
Tgt Ion: 42 Resp: 1160
Ion Ratio Lower Upper
42 100
72 41.5 41.7 62.5#
71 32.5 38.4 57.6#



#31
Cyclohexane
Concen: 1.153 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

Tgt Ion: 56 Resp: 5793
Ion Ratio Lower Upper
56 100
69 203.0 25.3 37.9#
84 157.8 71.4 107.0#





#33

1,2-Dichloroethane-d4

Concen: 49.211 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

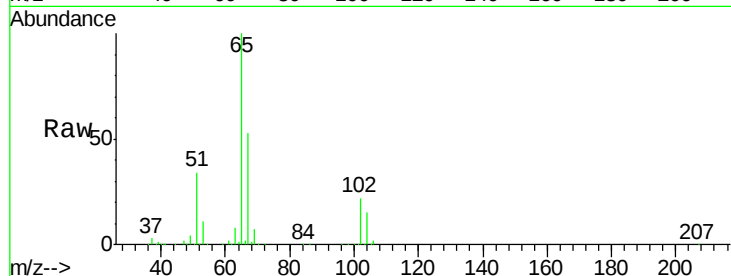
TR3-D-BOTTOM

Tgt Ion: 65 Resp: 198777

Ion Ratio Lower Upper

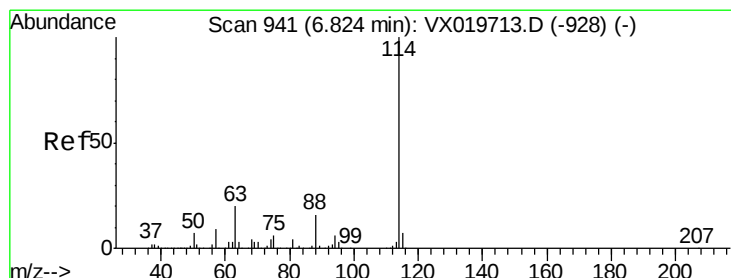
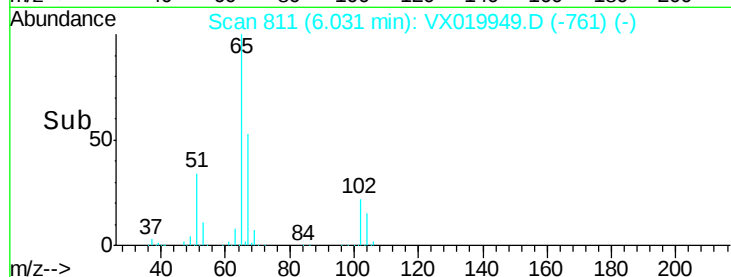
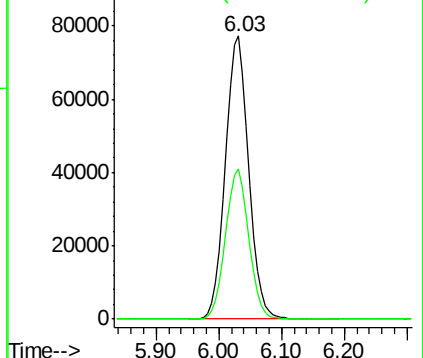
65 100

67 53.2 0.0 105.4



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: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

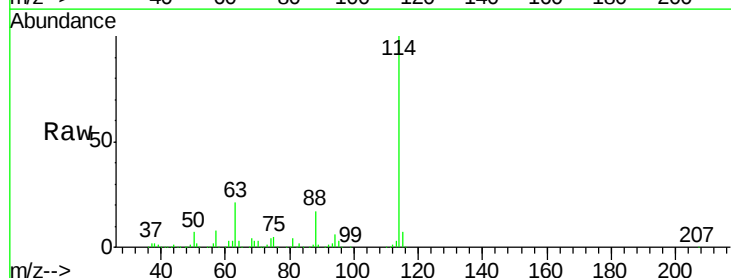
Tgt Ion: 114 Resp: 509128

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.8

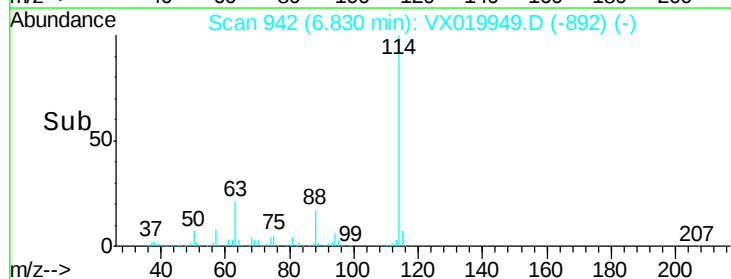
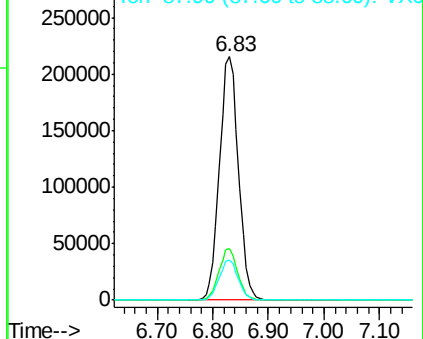
88 16.5 0.0 32.8

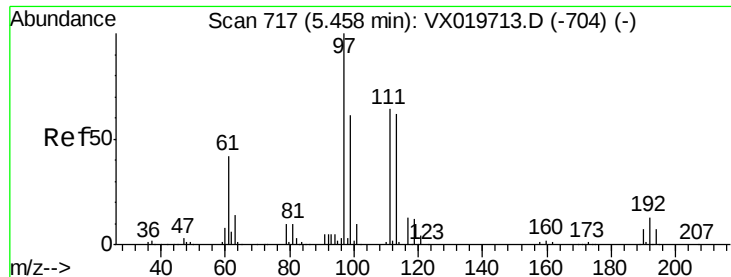


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.352 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

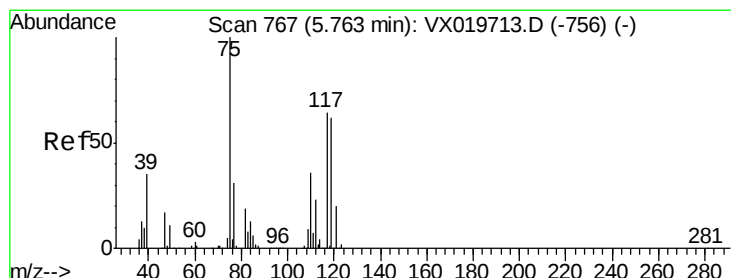
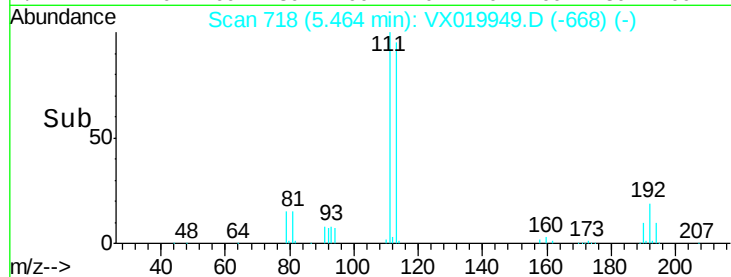
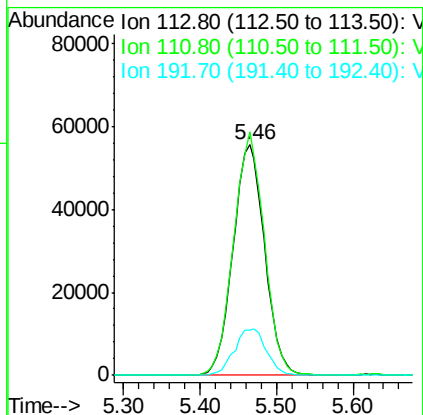
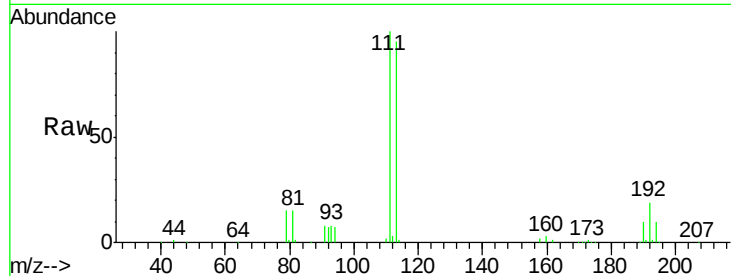
Instrument :

MSVOA_X

ClientSampleId :

TR3-D-BOTTOM

Tgt Ion:	113	Resp:	159097
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.9	122.9
192	20.4	16.7	25.1



#36

1,1-Dichloropropene

Concen: 4.965 ug/l

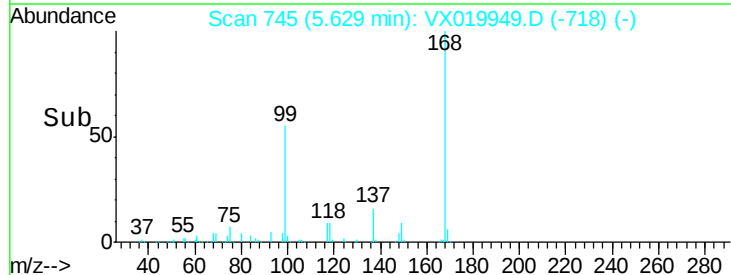
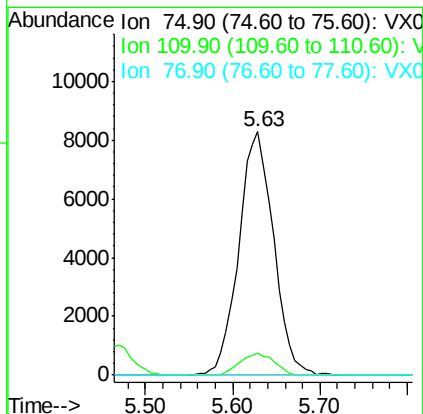
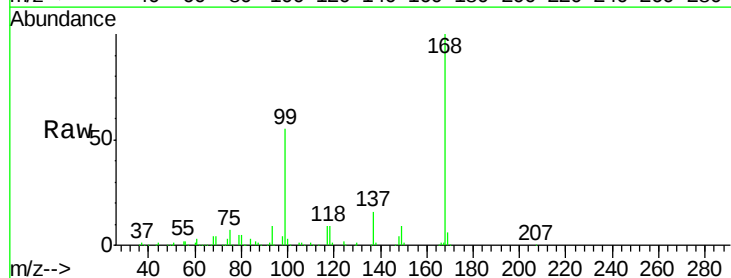
RT: 5.63 min Scan# 745

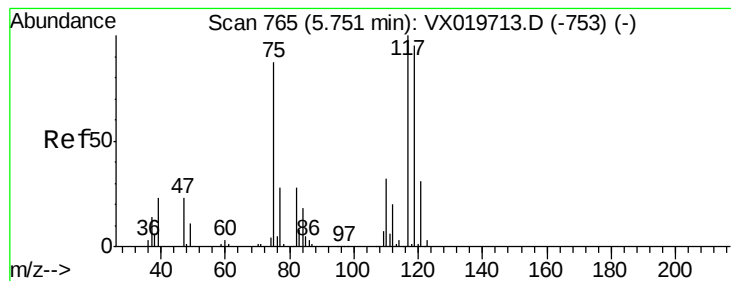
Delta R.T. -0.13 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Tgt Ion:	75	Resp:	22840
Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.4#
77	0.0	25.3	37.9#





#38

Carbon Tetrachloride

Concen: 6.664 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

TR3-D-BOTTOM

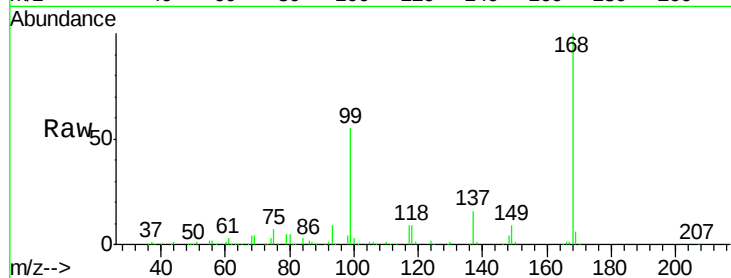
Tgt Ion:117 Resp: 30024

Ion Ratio Lower Upper

117 100

119 6.3 76.2 114.2#

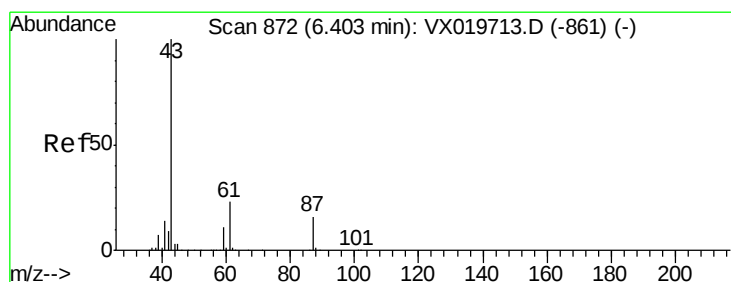
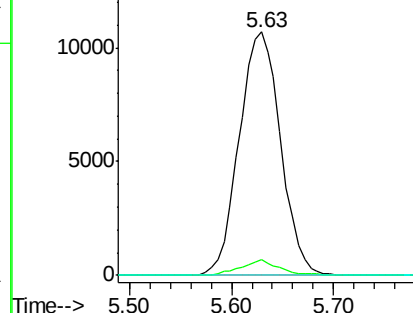
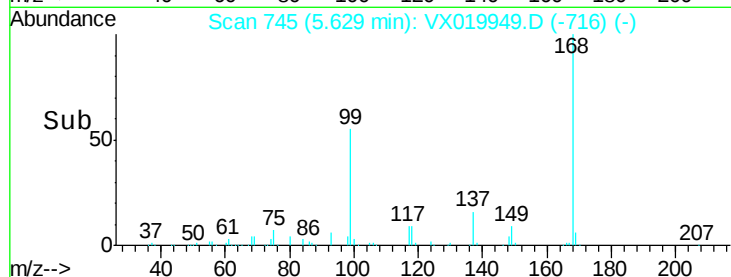
121 0.0 24.8 37.2#



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: 3.061 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

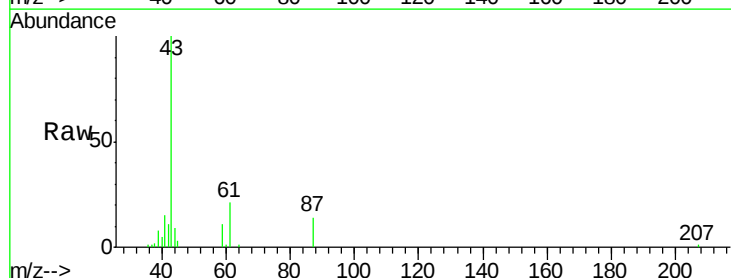
Tgt Ion: 43 Resp: 23118

Ion Ratio Lower Upper

43 100

61 22.0 18.2 27.4

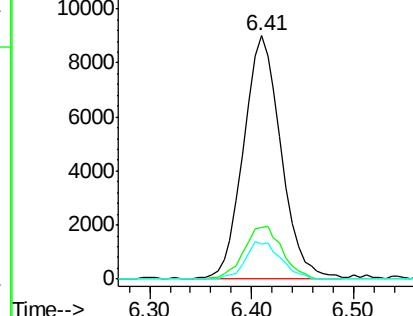
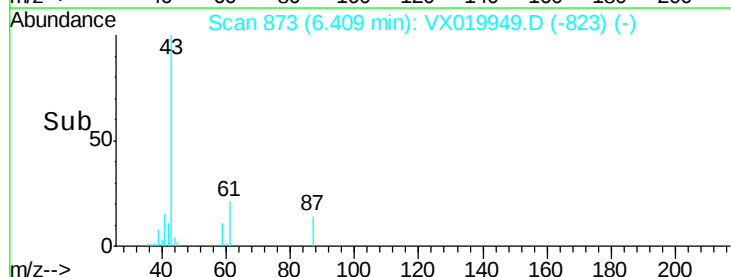
87 14.4 12.5 18.7

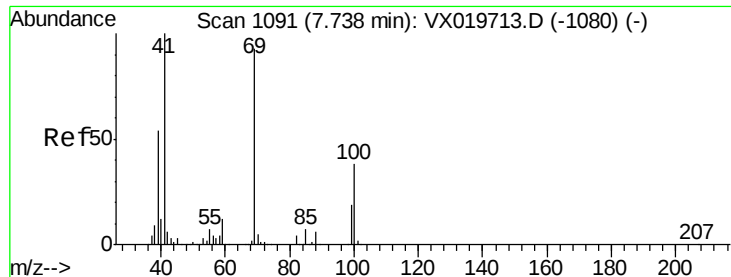


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

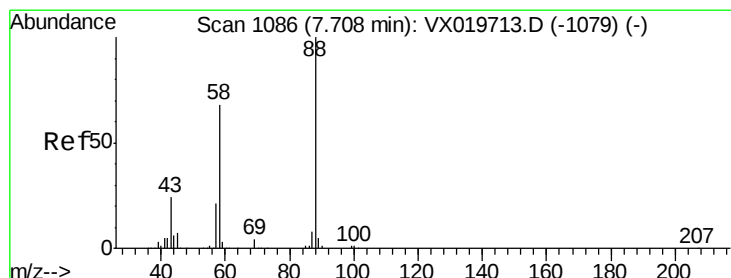
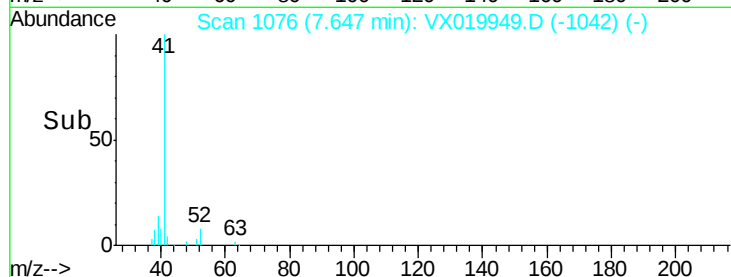
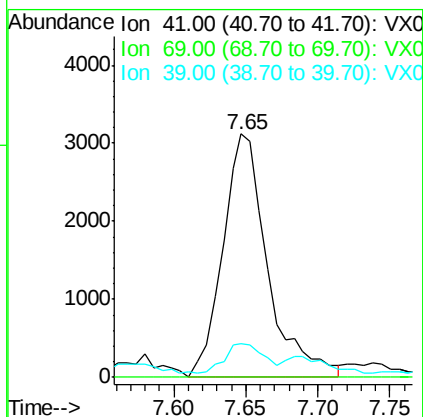
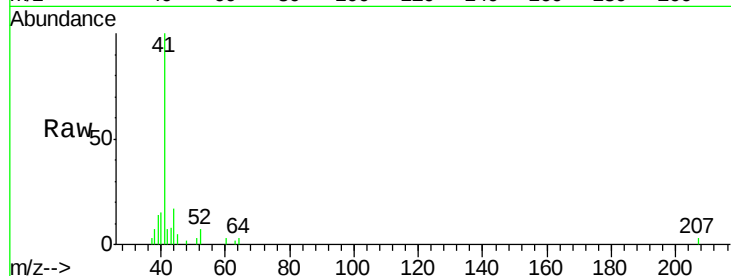




#48
Methyl methacrylate
Concen: 1.825 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

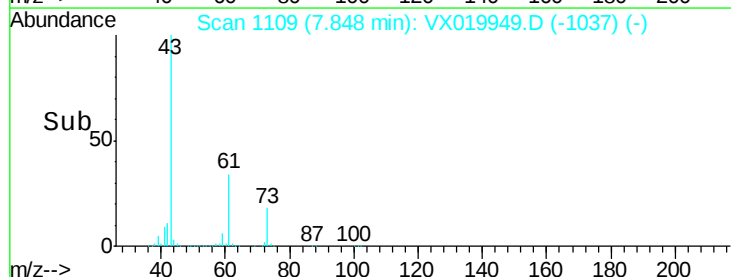
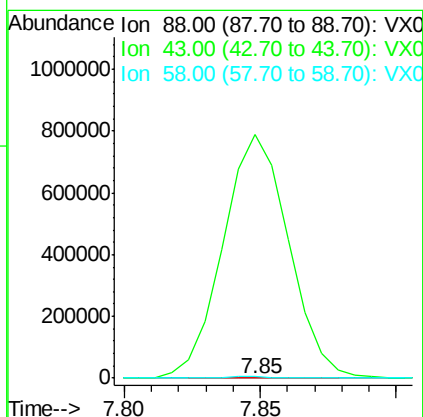
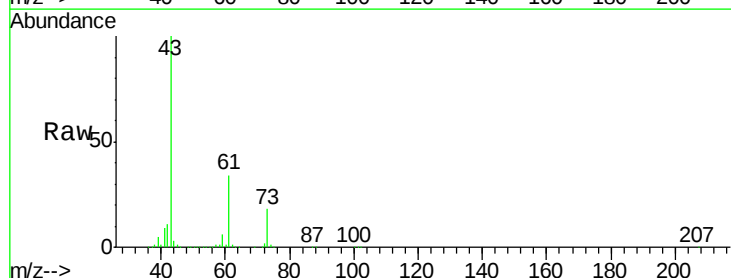
Instrument :
MSVOA_X
ClientSampleId :
TR3-D-BOTTOM

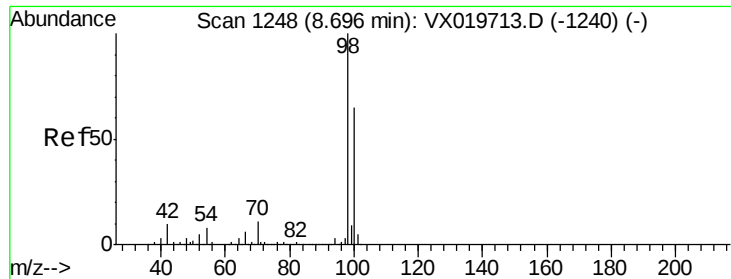
Tgt Ion: 41 Resp: 6779
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.601 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.14 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

Tgt Ion: 88 Resp: 234
Ion Ratio Lower Upper
88 100
43 568112.0 23.2 34.8#
58 3106.0 55.0 82.4#

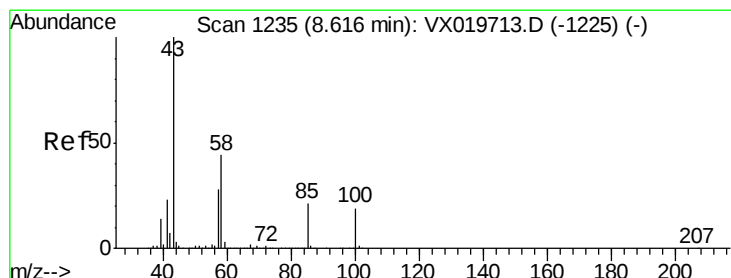
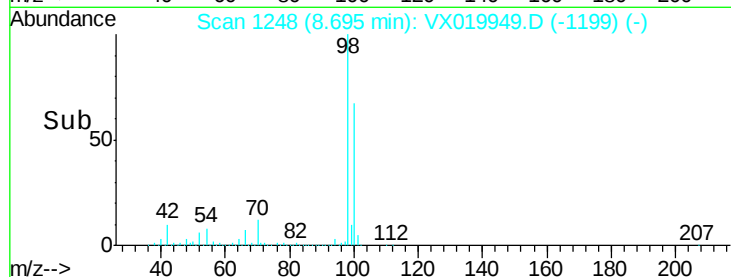
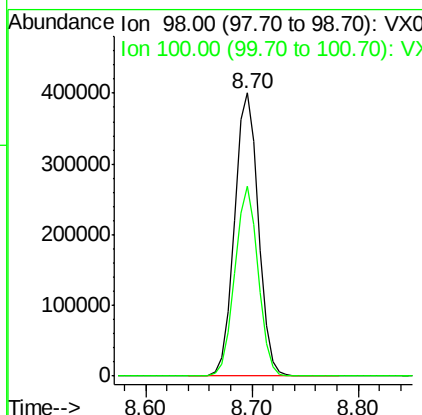
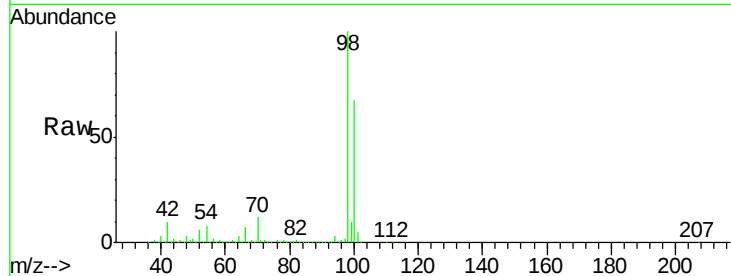




#50
Toluene-d8
Concen: 50.109 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

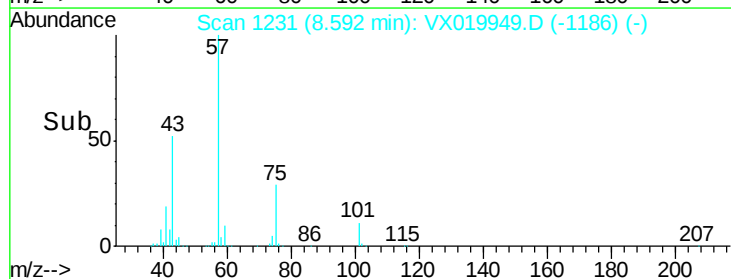
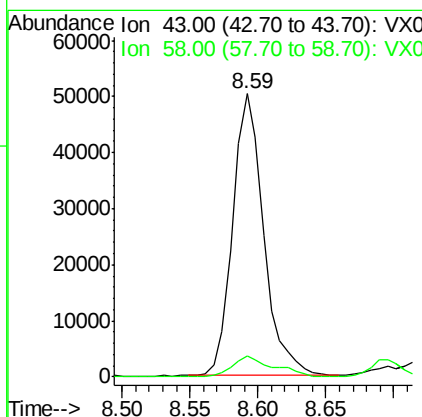
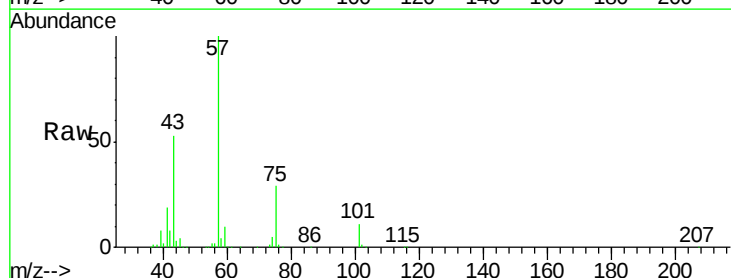
Instrument :
MSVOA_X
ClientSampleId :
TR3-D-BOTTOM

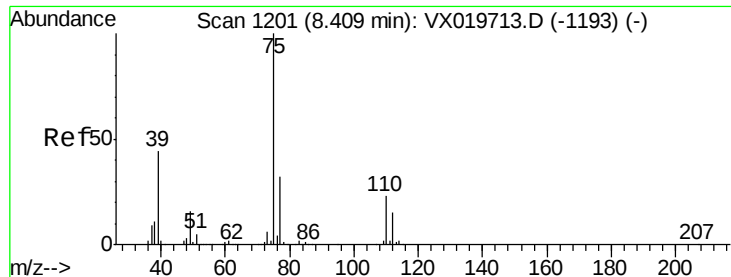
Tgt Ion: 98 Resp: 629471
Ion Ratio Lower Upper
98 100
100 65.6 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 17.361 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

Tgt Ion: 43 Resp: 80048
Ion Ratio Lower Upper
43 100
58 9.8 35.4 53.0#



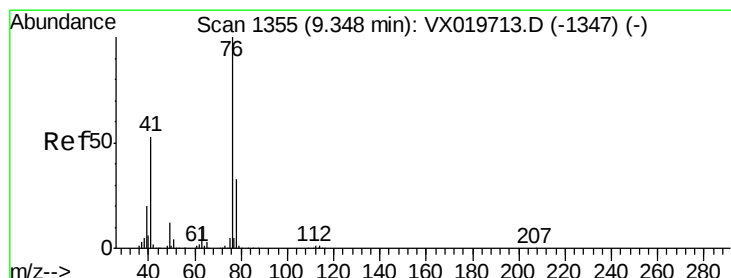
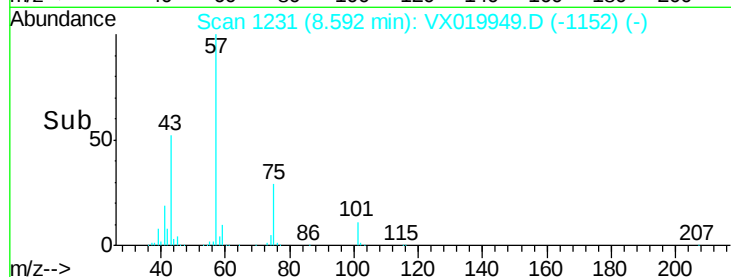
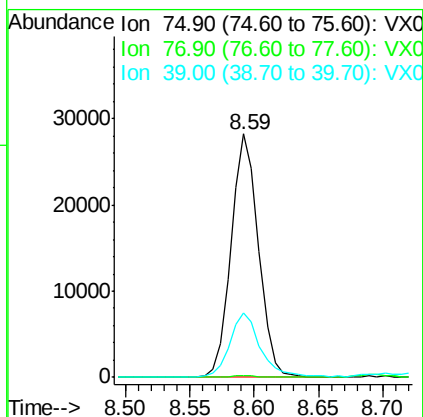
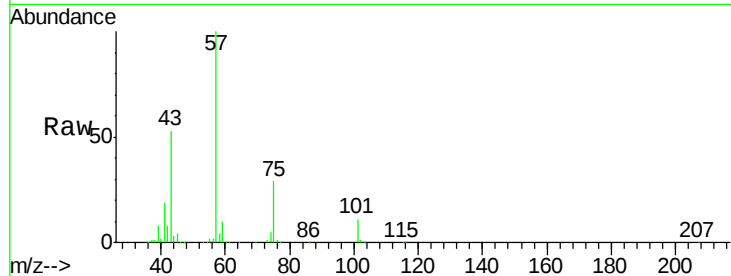


#54

cis-1,3-Dichloropropene
 Concen: 7.359 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019949.D
 Acq: 12 Dec 2020 21:50

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-D-BOTTOM

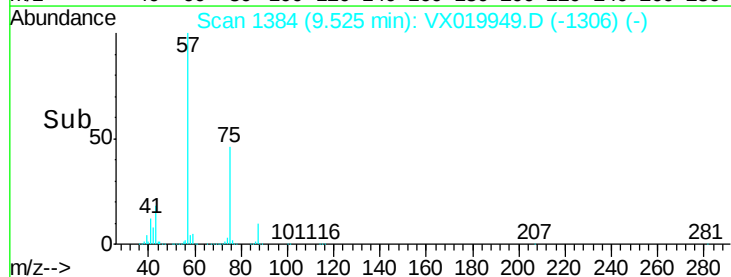
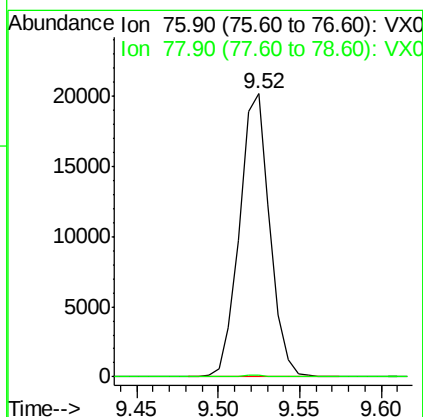
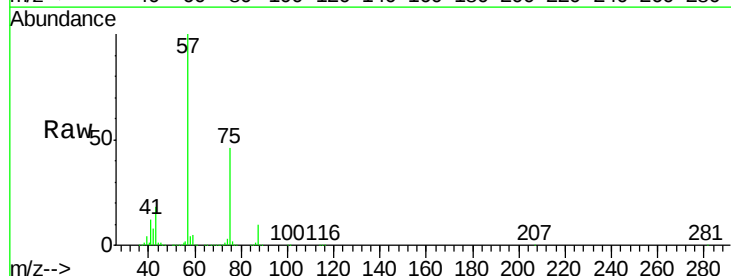
Tgt Ion: 75 Resp: 41758
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.7 38.5#
 39 26.0 35.1 52.7#

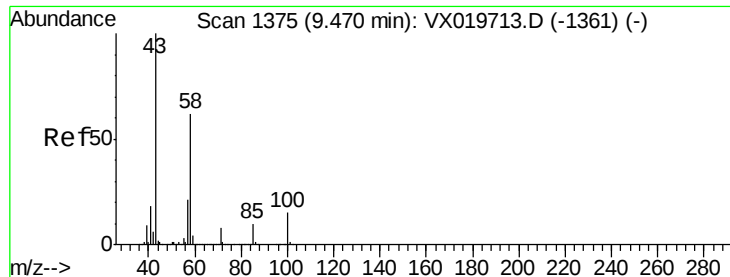


#57

1,3-Dichloropropane
 Concen: 4.310 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019949.D
 Acq: 12 Dec 2020 21:50

Tgt Ion: 76 Resp: 26068
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.2 39.2#

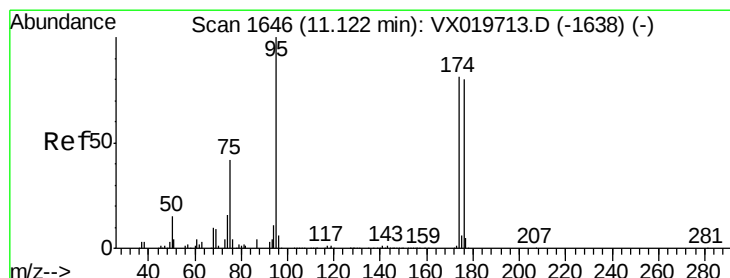
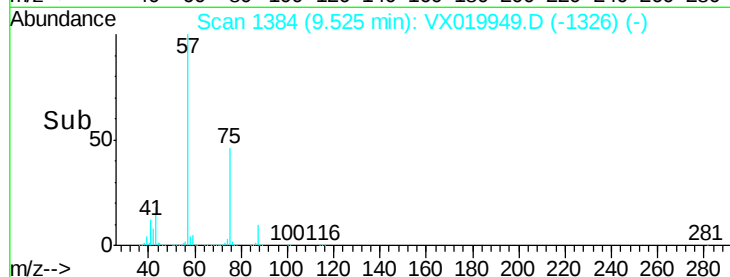
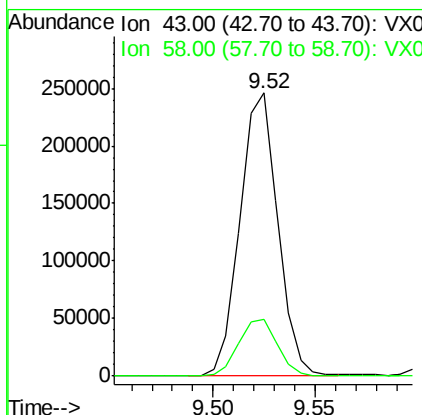
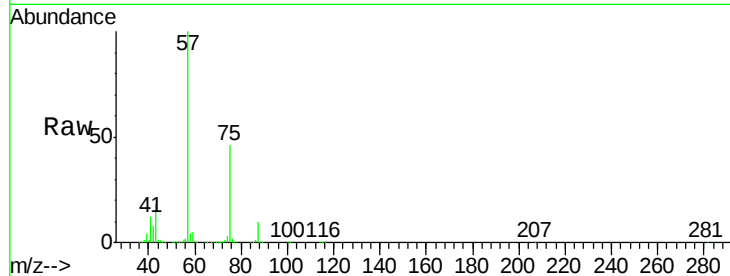




#59
2-Hexanone
Concen: 88.673 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

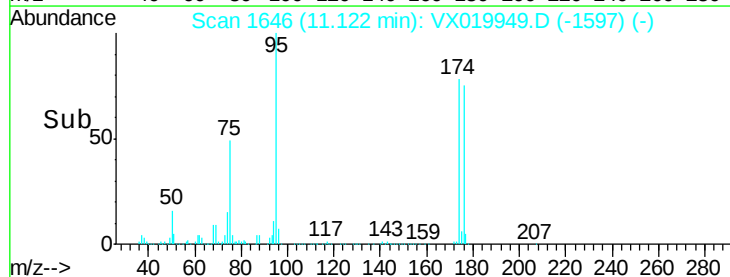
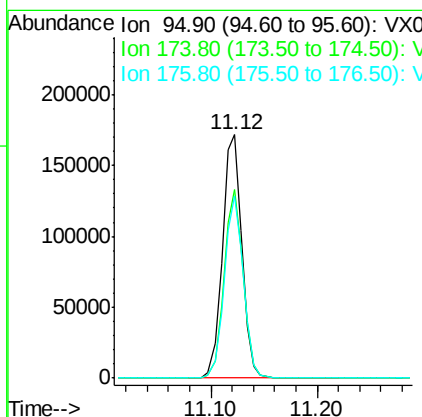
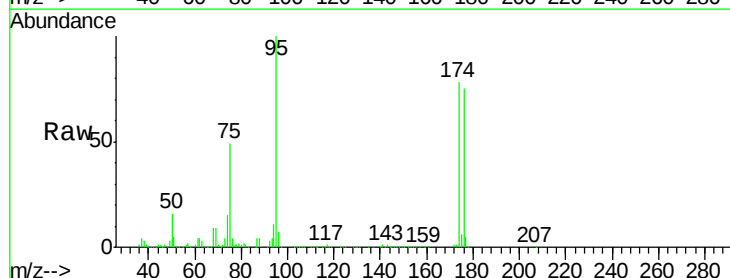
Instrument :
MSVOA_X
ClientSampleId :
TR3-D-BOTTOM

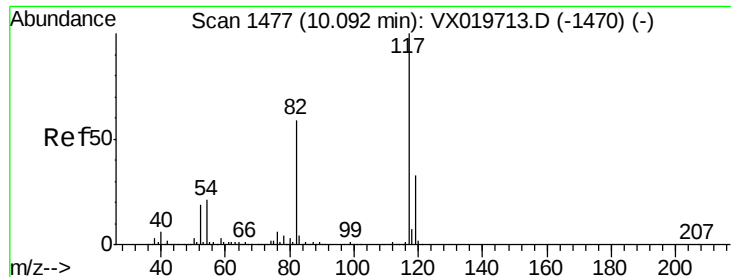
Tgt Ion: 43 Resp: 316912
Ion Ratio Lower Upper
43 100
58 20.7 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 45.600 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

Tgt Ion: 95 Resp: 218027
Ion Ratio Lower Upper
95 100
174 76.2 0.0 154.6
176 73.3 0.0 155.8

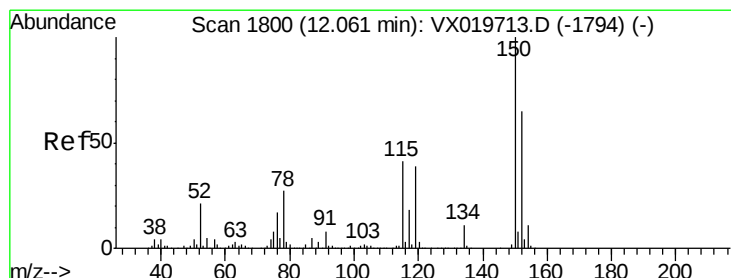
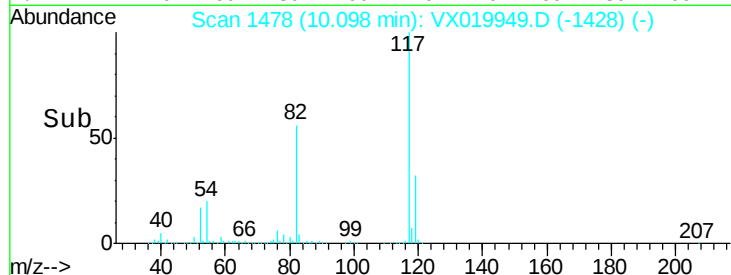
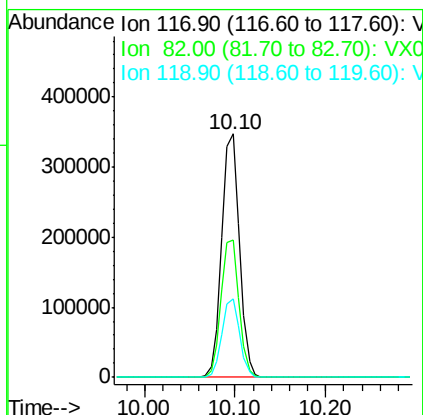
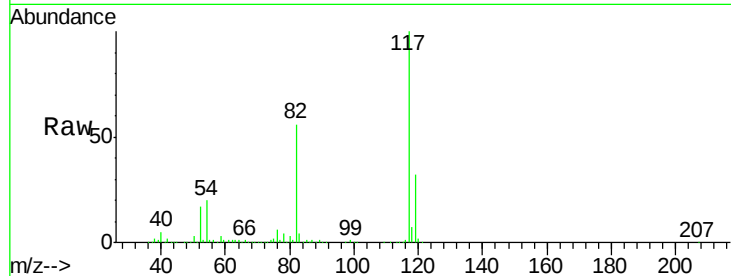




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

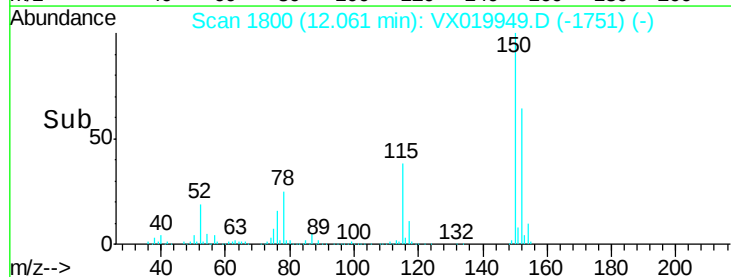
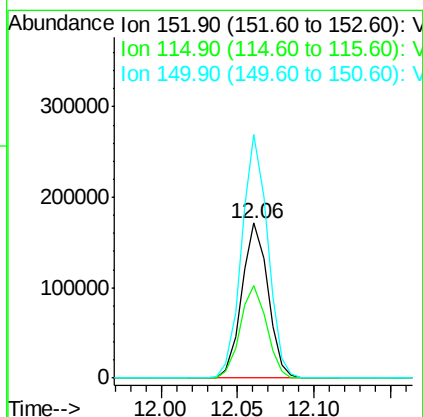
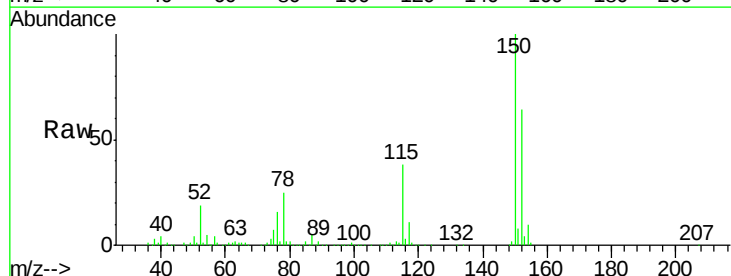
Instrument :
MSVOA_X
ClientSampleId :
TR3-D-BOTTOM

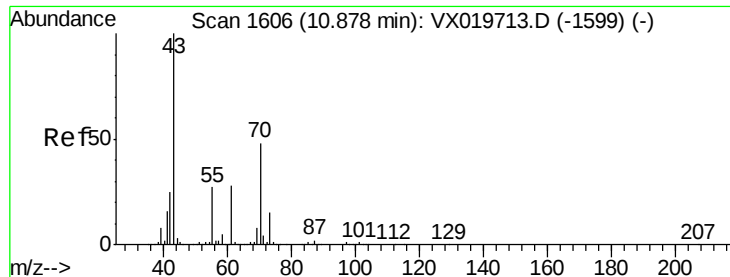
Tgt Ion:117 Resp: 476972
Ion Ratio Lower Upper
117 100
82 56.3 47.4 71.2
119 32.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019949.D
Acq: 12 Dec 2020 21:50

Tgt Ion:152 Resp: 203413
Ion Ratio Lower Upper
152 100
115 60.4 41.1 123.3
150 156.3 0.0 349.0





#74

N-ethyl acetate

Concen: 0.234 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

TR3-D-BOTTOM

Tgt Ion: 43 Resp: 1301

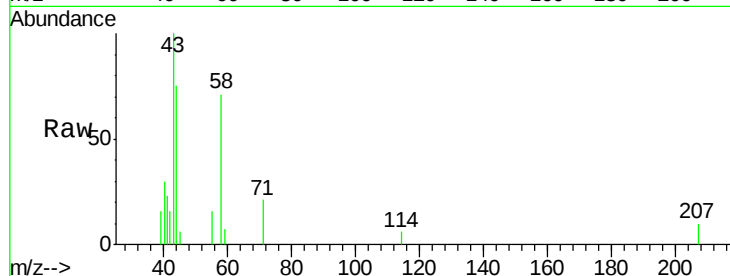
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 15.1 21.5 32.3#

61 0.0 22.1 33.1#

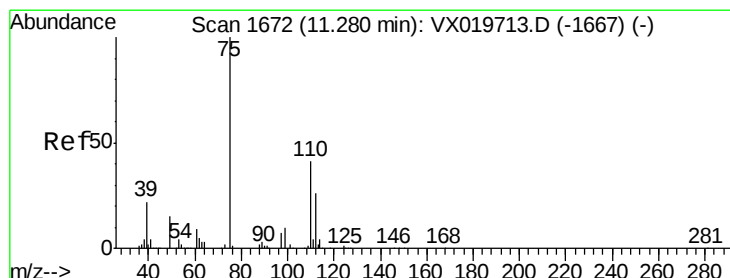
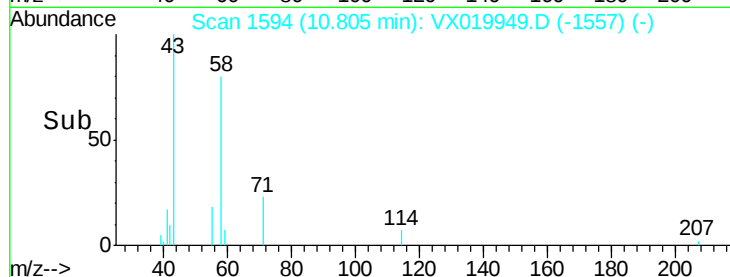
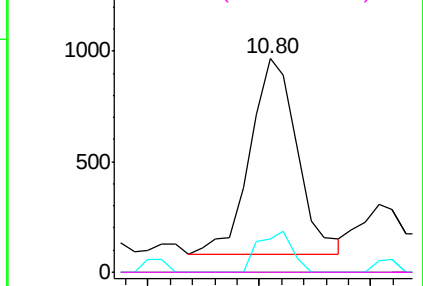


Abundance Ion 43.00 (42.70 to 43.70): VX019713.D (-1599) (-)

Ion 70.00 (69.70 to 70.70): VX019713.D (-1599) (-)

Ion 55.00 (54.70 to 55.70): VX019713.D (-1599) (-)

Ion 61.00 (60.70 to 61.70): VX019713.D (-1599) (-)



#76

1,2,3-Trichloropropane

Concen: 23.113 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019949.D

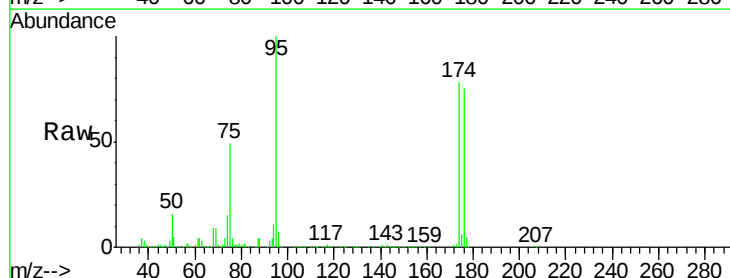
Acq: 12 Dec 2020 21:50

Tgt Ion: 75 Resp: 105447

Ion Ratio Lower Upper

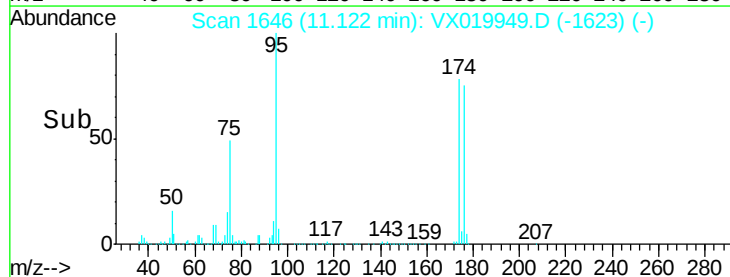
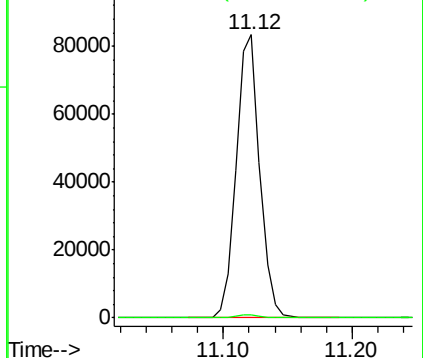
75 100

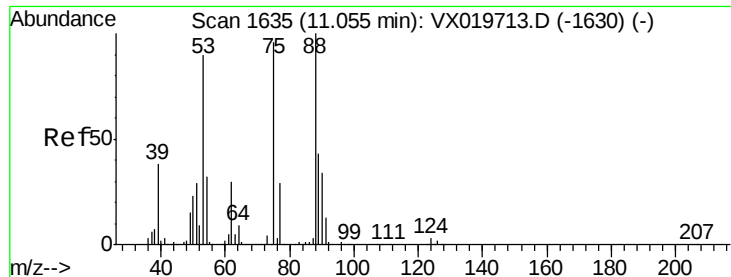
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX019713.D (-1667) (-)

Ion 77.00 (76.70 to 77.70): VX019713.D (-1667) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.816 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019949.D

Acq: 12 Dec 2020 21:50

Instrument :

MSVOA_X

ClientSampleId :

TR3-D-BOTTOM

Tgt Ion: 75 Resp: 105447

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

