

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019550.D
 Acq On : 23 Nov 2020 15:05
 Operator : JC/MD
 Sample : L4798-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 29BR-20201118

Quant Time: Nov 24 00:32:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	318842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	517445	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	442672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	195108	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	188419	45.58	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	91.16%
35) Dibromofluoromethane	5.46	113	151545	46.66	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.32%
50) Toluene-d8	8.70	98	587110	46.52	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	93.04%
62) 4-Bromofluorobenzene	11.12	95	209488	46.13	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.26%

Target Compounds

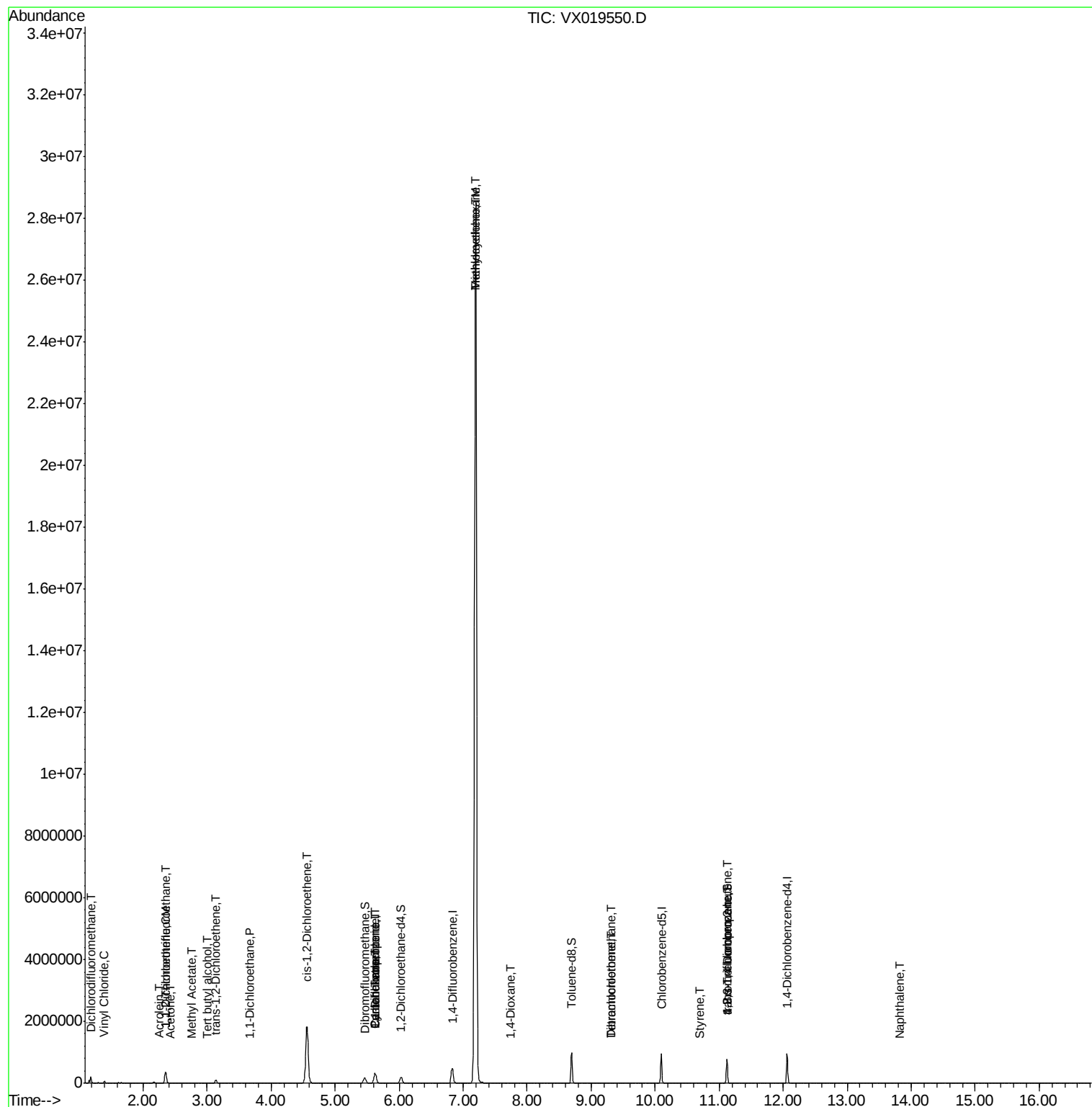
					Qvalue
2) Dichlorodifluoromethane	1.18	85	116859	37.689	ug/l 98
4) Vinyl Chloride	1.39	62	30620	7.995	ug/l 98
6) Chloroethane	1.72	64	686	Below Cal	# 49
9) 1,1,2-Trichlorotrifluoroet	2.36	101	93494	30.315	ug/l 99
11) Tert butyl alcohol	3.00	59	855	1.093	ug/l # 73
12) 1,1-Dichloroethene	2.34	96	56326	17.794	ug/l 100
13) Acrolein	2.25	56	149	0.283	ug/l # 15
16) Acetone	2.43	43	1558	0.975	ug/l 99
18) Methyl Acetate	2.75	43	450	0.748	ug/l # 47
21) trans-1,2-Dichloroethene	3.14	96	41858	11.671	ug/l 97
24) 1,1-Dichloroethane	3.66	63	1383	0.220	ug/l # 81
27) cis-1,2-Dichloroethene	4.56	96	1248850	303.143	ug/l 87
31) Cyclohexane	5.63	56	5910	1.099	ug/l # 1
36) 1,1-Dichloropropene	5.63	75	23423	4.828	ug/l # 50
38) Carbon Tetrachloride	5.62	117	30788	6.557	ug/l # 16
39) Methylcyclohexane	7.20	83	145580	25.774	ug/l # 1
44) Trichloroethene	7.20	130	11436661	2929.351	ug/l 94
49) 1,4-Dioxane	7.73	88	131	1.609	ug/l # 16
60) Dibromochloromethane	9.32	129	1160	0.319	ug/l # 10
64) Tetrachloroethene	9.32	164	1129	0.324	ug/l 93
70) Styrene	10.70	104	149	1.659	ug/l # 66
76) 1,2,3-Trichloropropane	11.12	75	102955	24.180	ug/l # 37
81) trans-1,4-Dichloro-2-buten	11.12	75	102955	64.011	ug/l # 12
95) Naphthalene	13.82	128	420	2.206	ug/l # 69

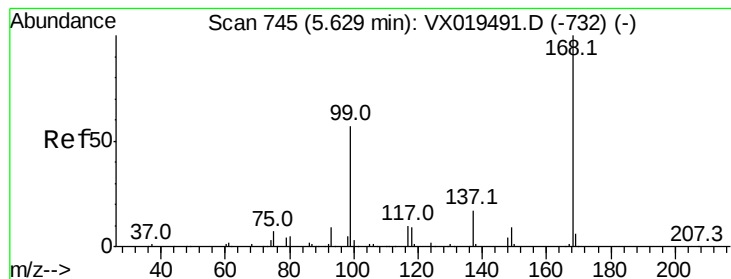
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112320\
Data File : VX019550.D
Acq On : 23 Nov 2020 15:05
Operator : JC/MD
Sample : L4798-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
29BR-20201118

Quant Time: Nov 24 00:32:10 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

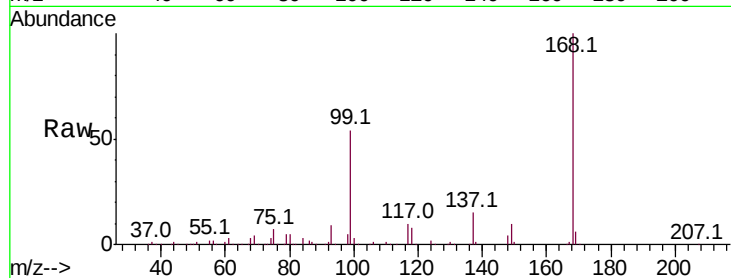
29BR-20201118

Tot Ion:168 Resp: 318842

Ion Ratio Lower Upper

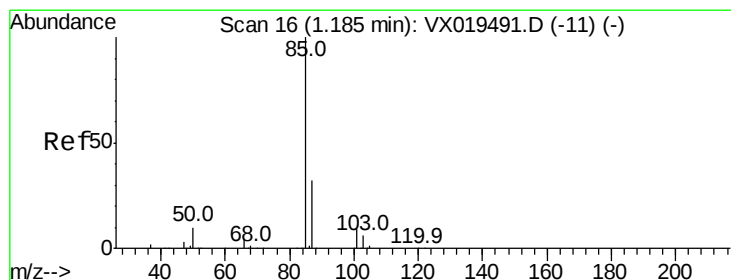
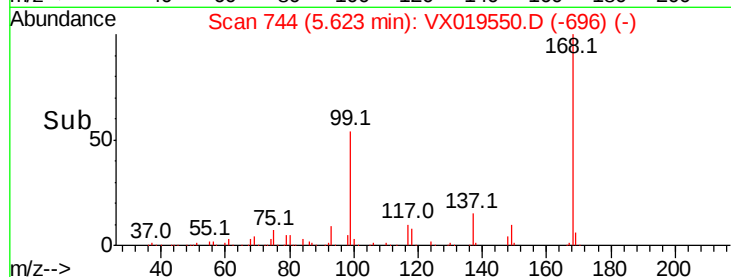
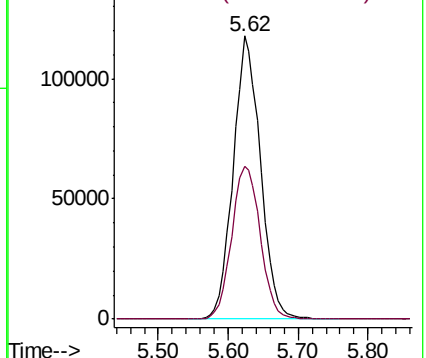
168 100

99 53.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 37.689 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019550.D

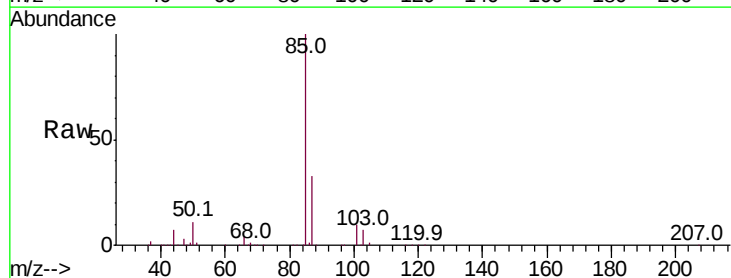
Acq: 23 Nov 2020 15:05

Tgt Ion: 85 Resp: 116859

Ion Ratio Lower Upper

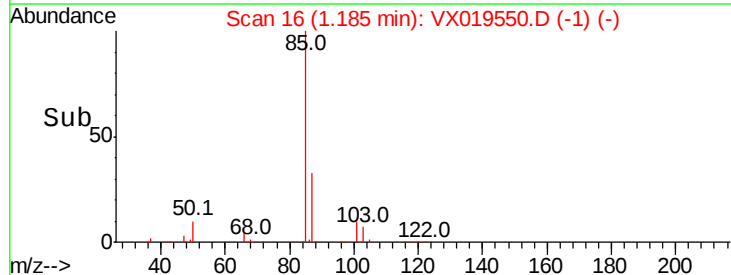
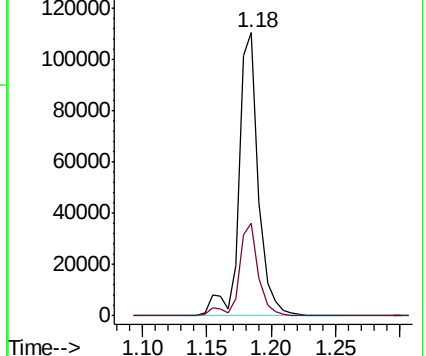
85 100

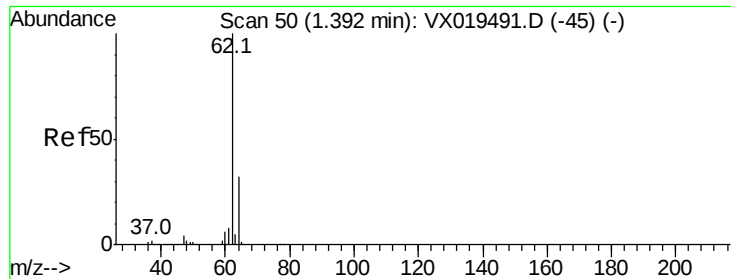
87 32.8 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 7.995 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

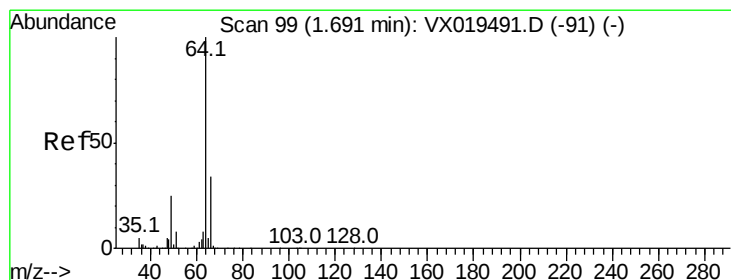
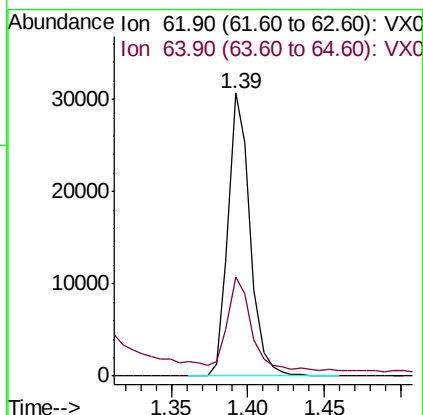
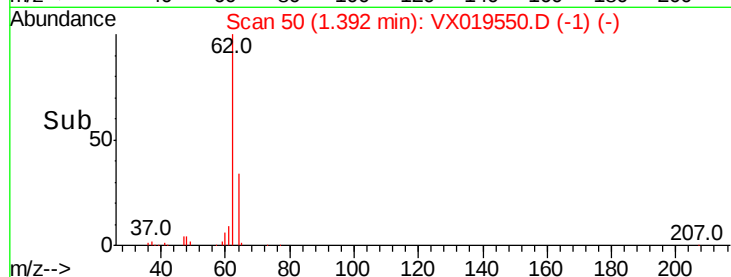
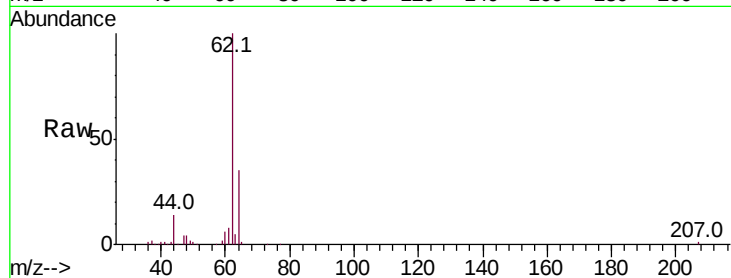
29BR-20201118

Tot Ion: 62 Resp: 30620

Ion Ratio Lower Upper

62 100

64 32.8 25.4 38.2



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.03 min

Lab File: VX019550.D

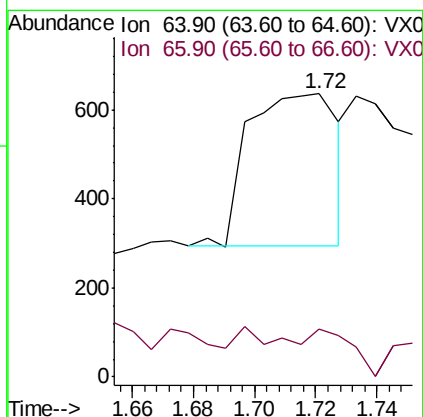
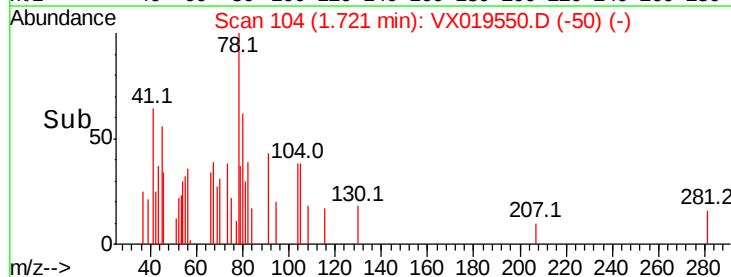
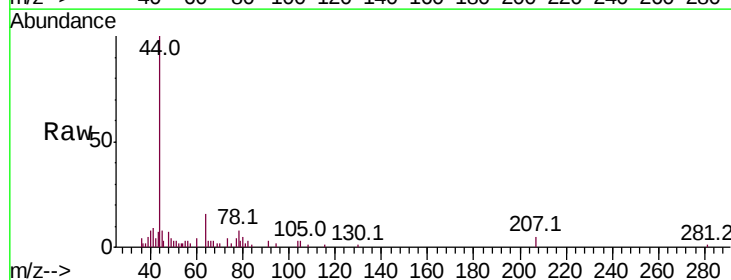
Acq: 23 Nov 2020 15:05

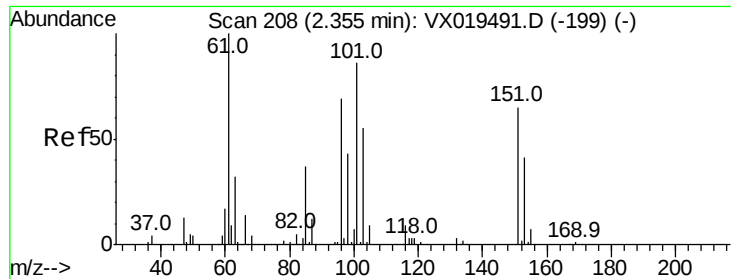
Tgt Ion: 64 Resp: 686

Ion Ratio Lower Upper

64 100

66 4.7 27.1 40.7#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 30.315 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

29BR-20201118

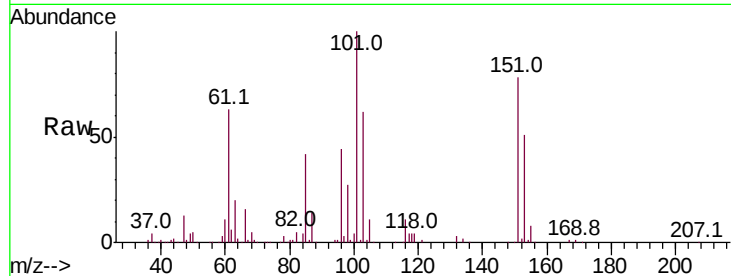
Tot Ion:101 Resp: 93494

Ion Ratio Lower Upper

101 100

85 42.9 33.9 50.9

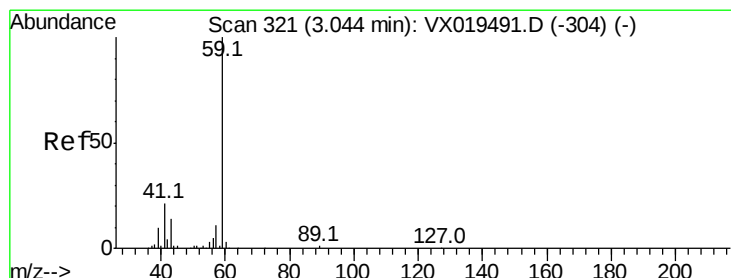
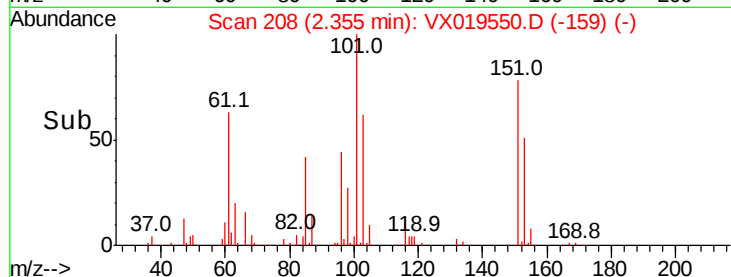
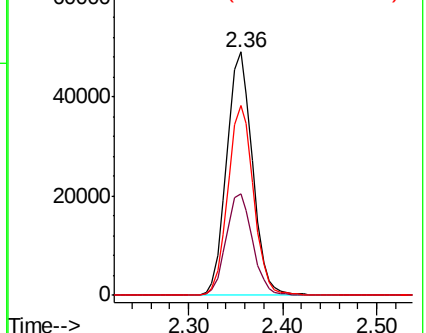
151 77.4 60.9 91.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.093 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019550.D

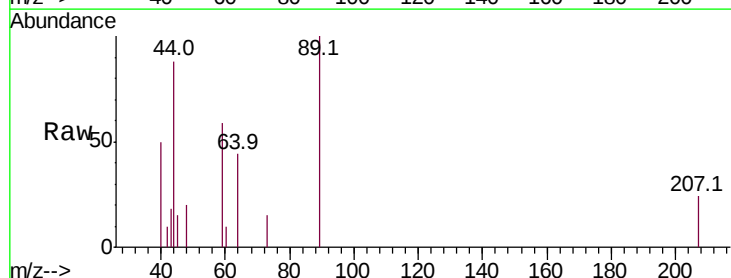
Acq: 23 Nov 2020 15:05

Tgt Ion: 59 Resp: 855

Ion Ratio Lower Upper

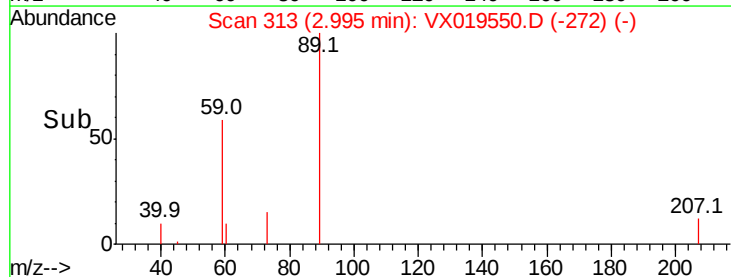
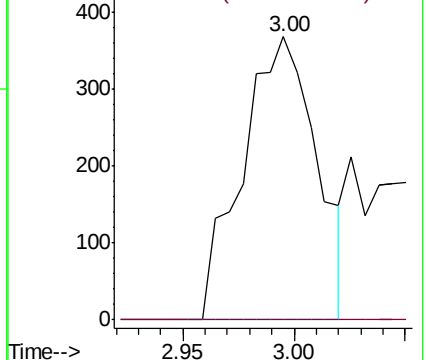
59 100

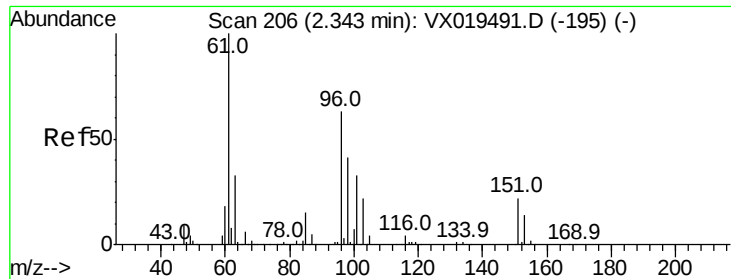
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

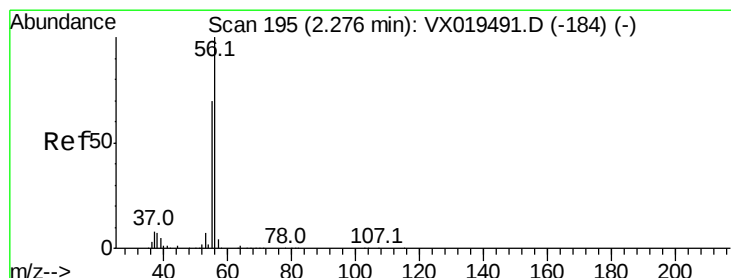
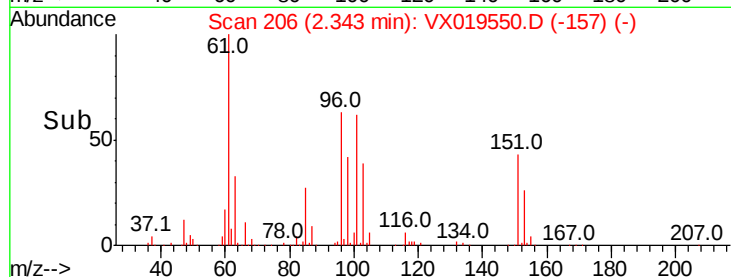
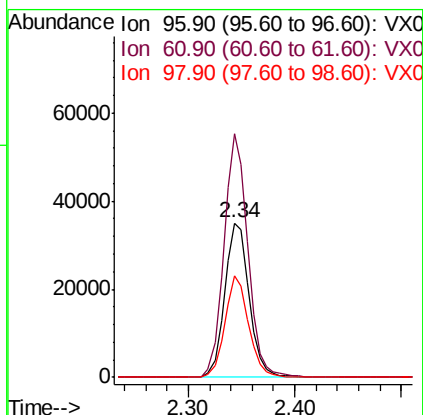
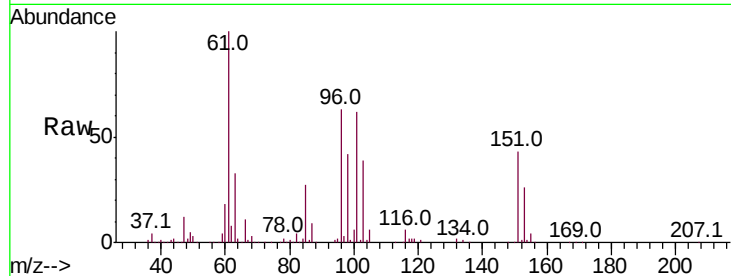




#12
 1,1-Dichloroethene
 Concen: 17.794 ug/l
 RT: 2.34 min Scan# 206
 Delta R.T. -0.00 min
 Lab File: VX019550.D
 Acq: 23 Nov 2020 15:05

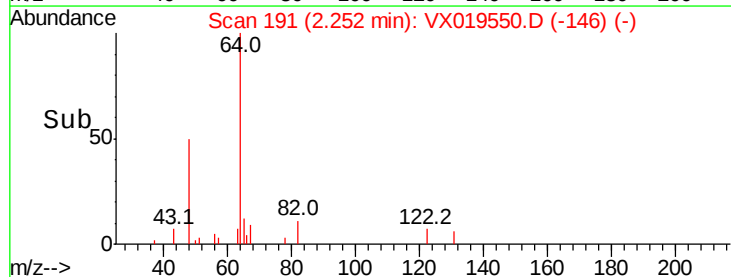
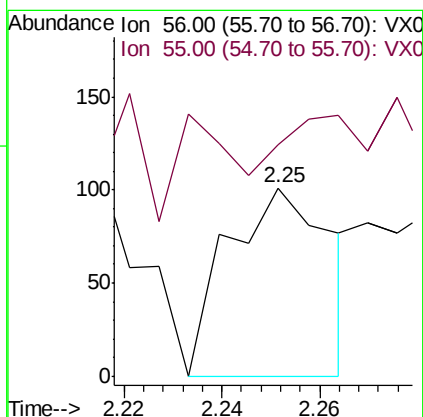
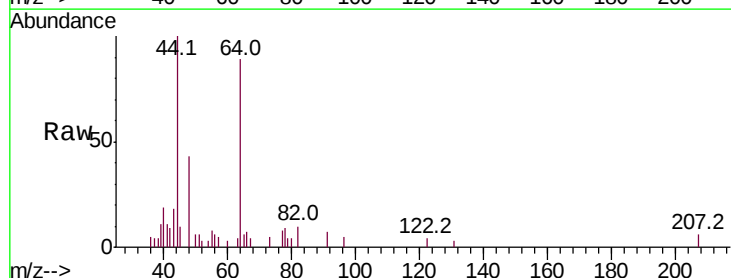
Instrument :
 MSVOA_X
 ClientSampleId :
 29BR-20201118

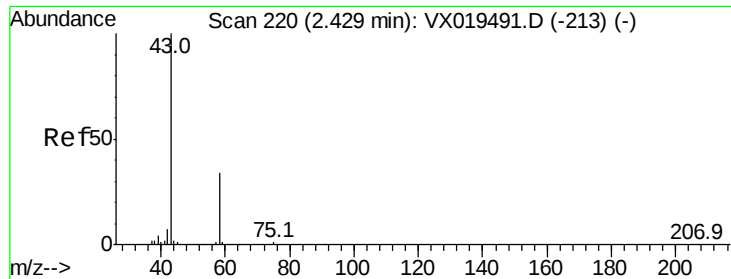
Tot Ion: 96 Resp: 56326
 Ion Ratio Lower Upper
 96 100
 61 157.8 126.0 189.0
 98 65.5 52.0 78.0



#13
 Acrolein
 Concen: 0.283 ug/l
 RT: 2.25 min Scan# 191
 Delta R.T. -0.02 min
 Lab File: VX019550.D
 Acq: 23 Nov 2020 15:05

Tgt Ion: 56 Resp: 149
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.5 83.3#

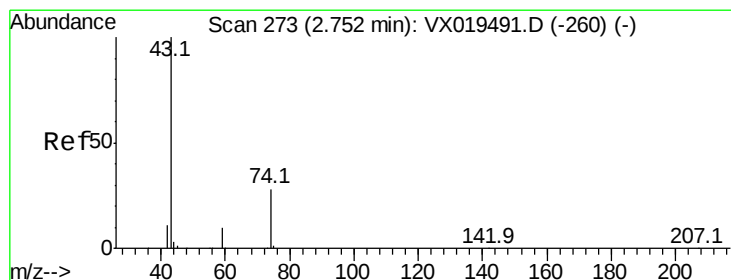
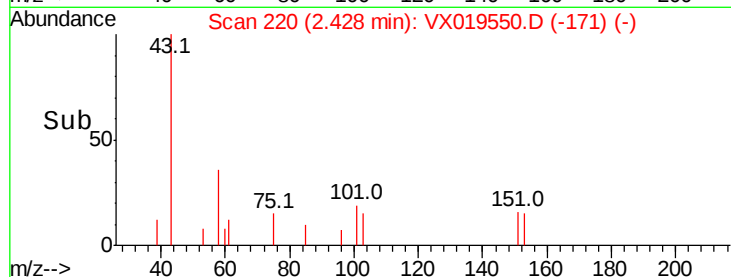
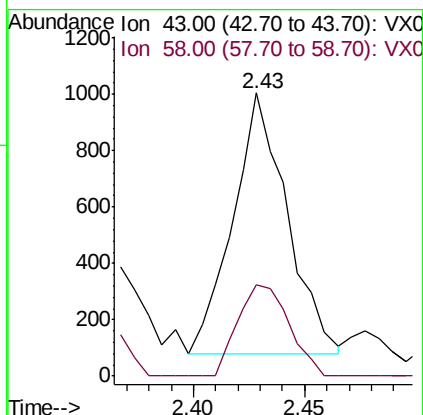
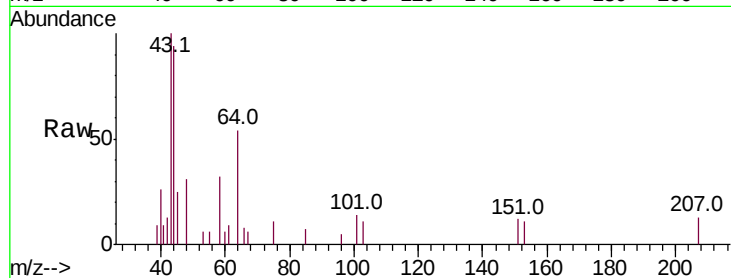




#16
Acetone
Concen: 0.975 ug/l
RT: 2.43 min Scan# 220
Delta R.T. -0.00 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

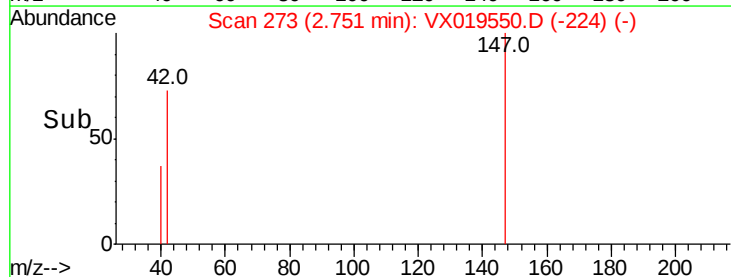
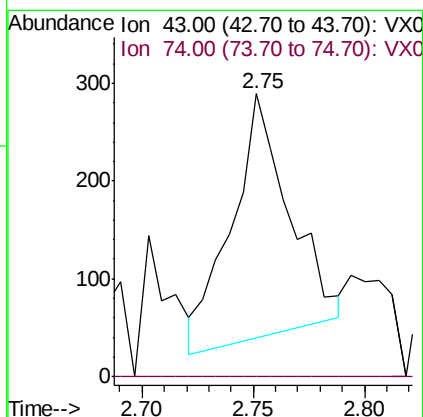
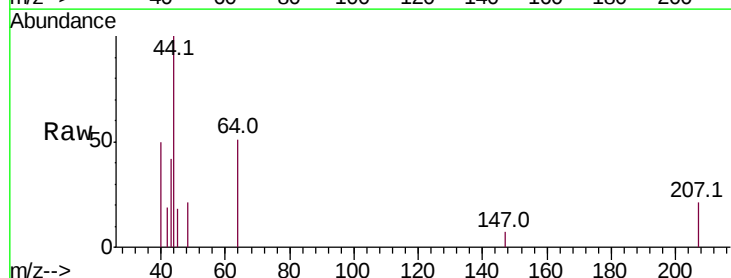
Instrument :
MSVOA_X
ClientSampleId :
29BR-20201118

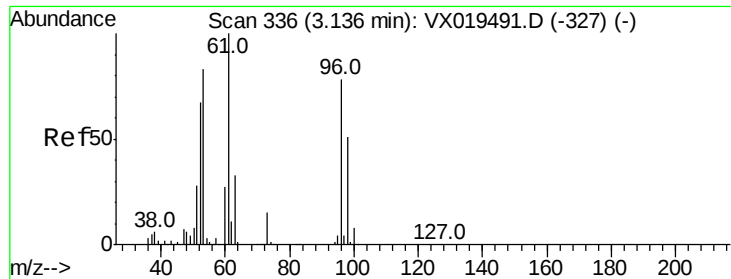
Tot Ion: 43 Resp: 1558
Ion Ratio Lower Upper
43 100
58 35.1 27.4 41.2



#18
Methyl Acetate
Concen: 0.748 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Tgt Ion: 43 Resp: 450
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.4#

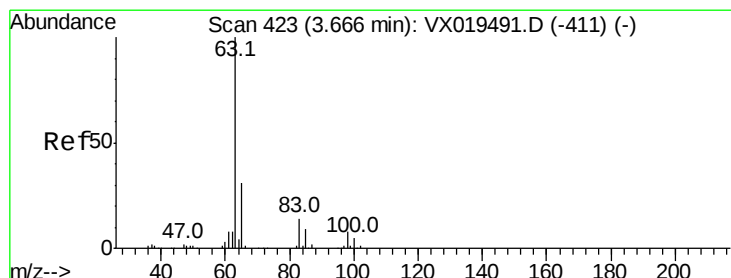
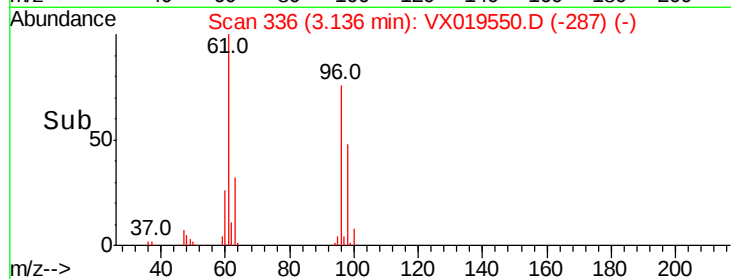
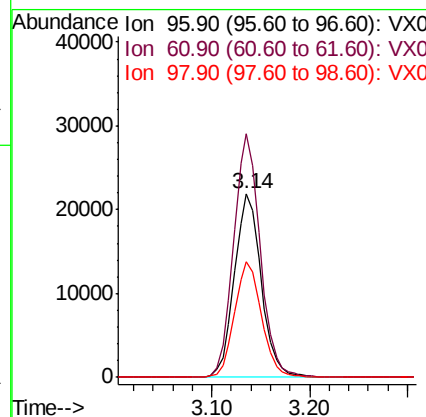
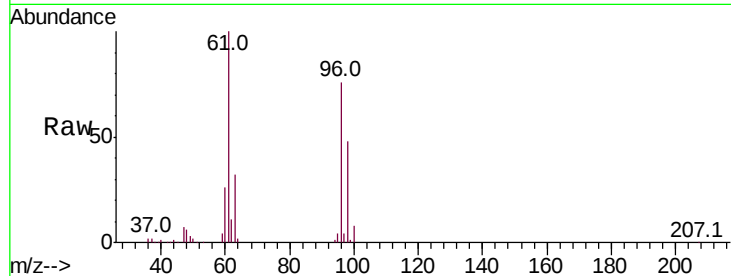




#21
trans-1,2-Dichloroethene
Concen: 11.671 ug/l
RT: 3.14 min Scan# 336
Delta R.T. -0.00 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

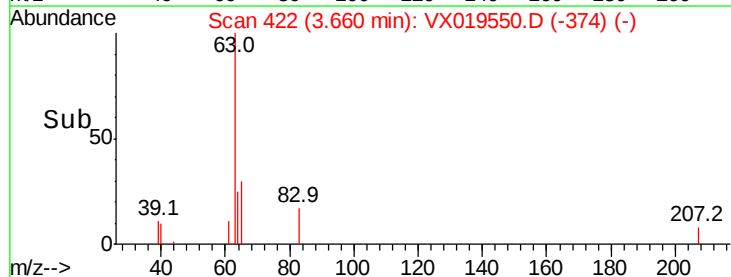
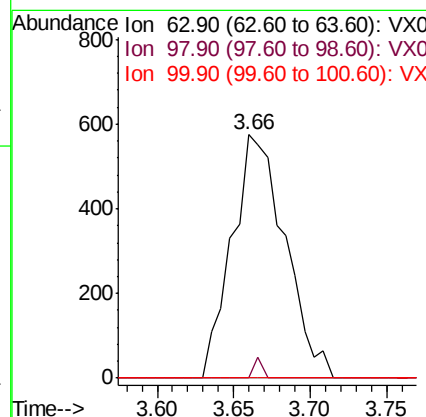
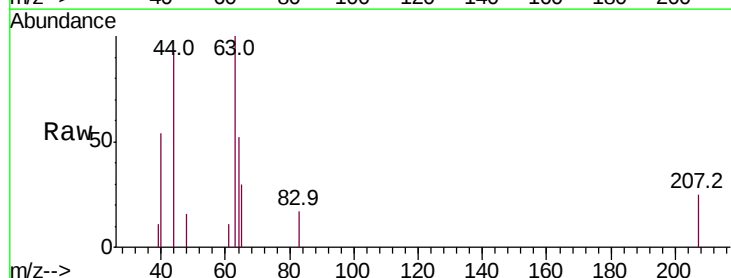
Instrument :
MSVOA_X
ClientSampleId :
29BR-20201118

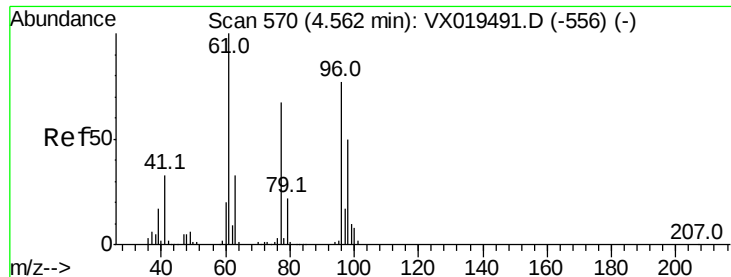
Tot Ion: 96 Resp: 41858
Ion Ratio Lower Upper
96 100
61 132.3 102.9 154.3
98 63.1 52.1 78.1



#24
1,1-Dichloroethane
Concen: 0.220 ug/l
RT: 3.66 min Scan# 422
Delta R.T. -0.01 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Tgt Ion: 63 Resp: 1383
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.7#
100 0.0 2.4 7.1#



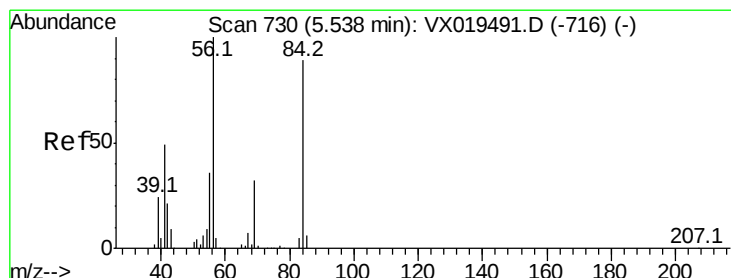
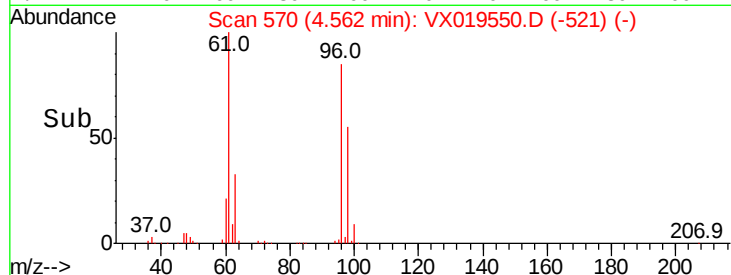
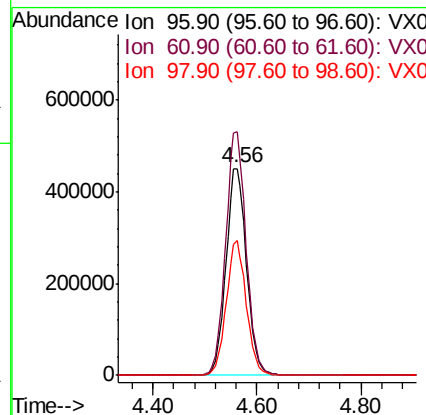
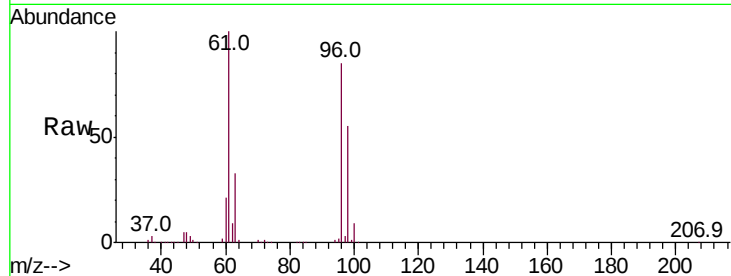


#27

cis-1,2-Dichloroethene
Concen: 303.143 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.00 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Instrument :
MSVOA_X
ClientSampleId :
29BR-20201118

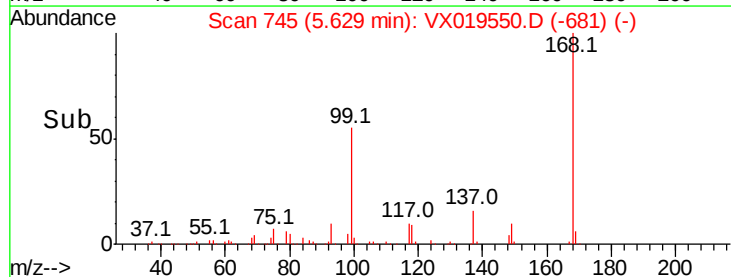
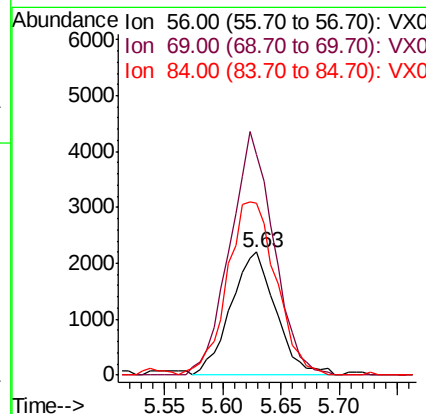
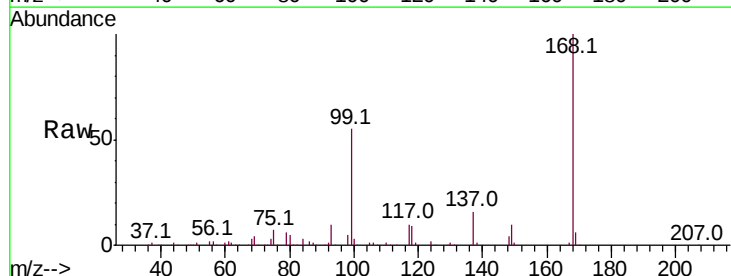
Tot Ion: 96 Resp: 1248850
Ion Ratio Lower Upper
96 100
61 118.1 0.0 279.2
98 63.5 0.0 129.8

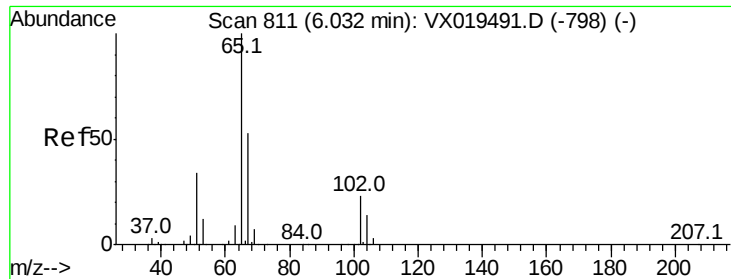


#31

Cyclohexane
Concen: 1.099 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Tgt Ion: 56 Resp: 5910
Ion Ratio Lower Upper
56 100
69 180.1 25.5 38.3#
84 140.5 71.1 106.7#

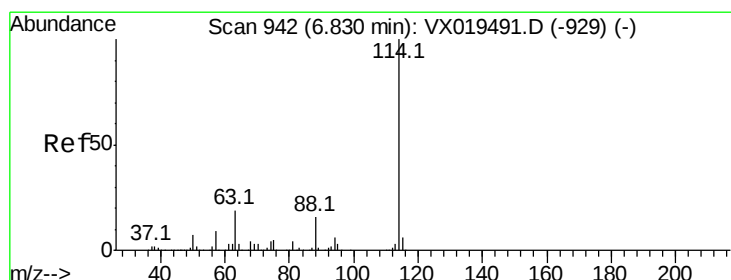
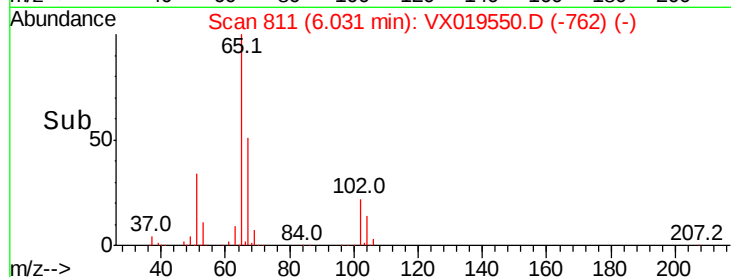
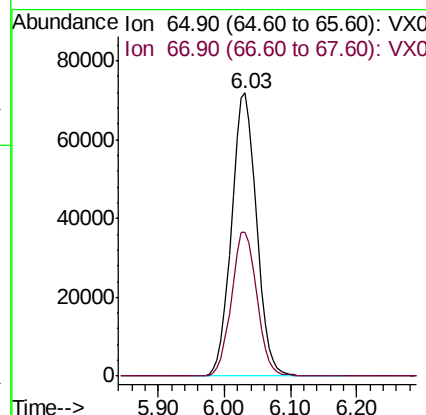
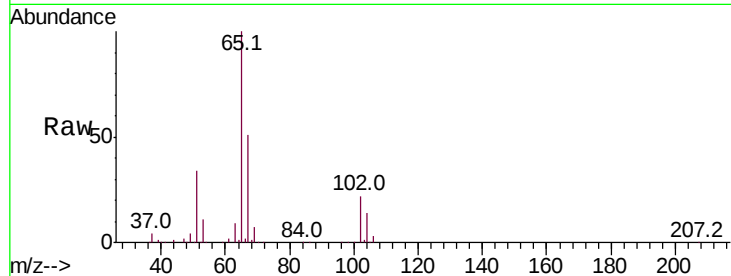




#33
 1,2-Dichloroethane-d4
 Concen: 45.577 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019550.D
 Acq: 23 Nov 2020 15:05

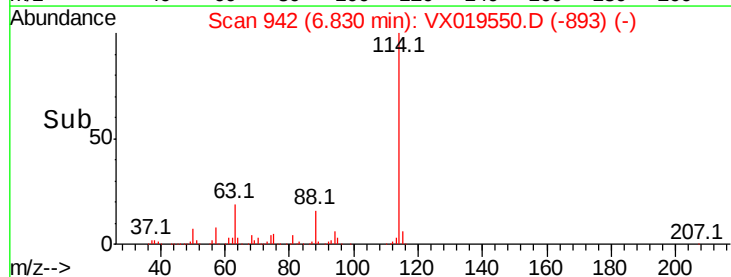
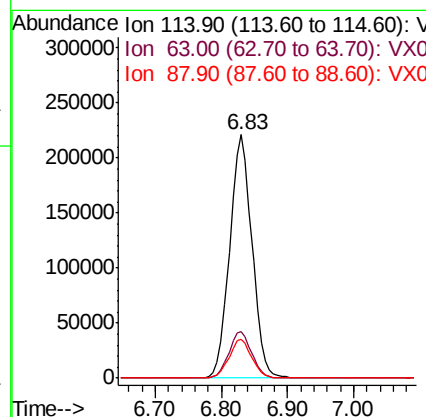
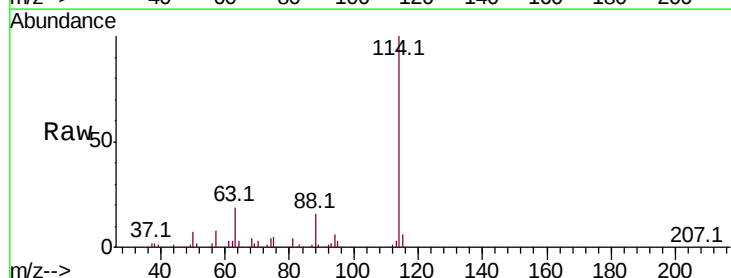
Instrument :
 MSVOA_X
 ClientSampleId :
 29BR-20201118

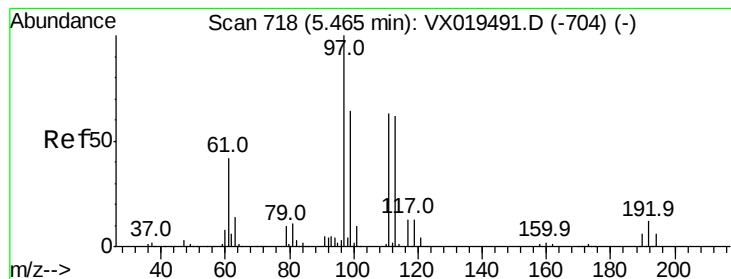
Tot Ion: 65 Resp: 188419
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019550.D
 Acq: 23 Nov 2020 15:05

Tgt Ion: 114 Resp: 517445
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.8
 88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.658 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

29BR-20201118

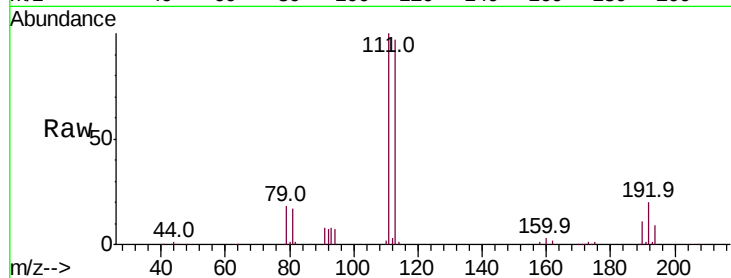
Tot Ion:113 Resp: 151545

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

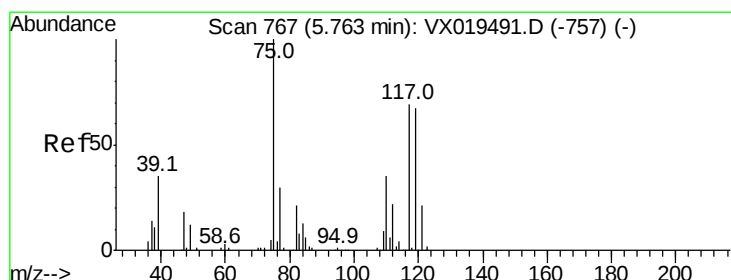
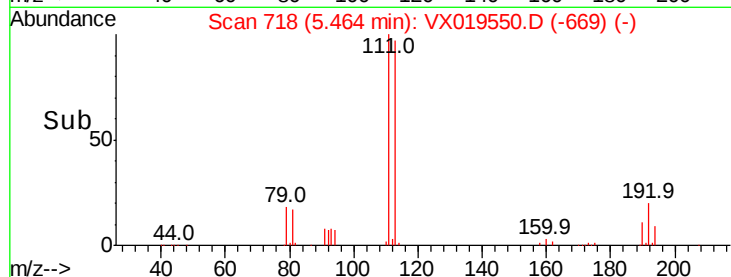
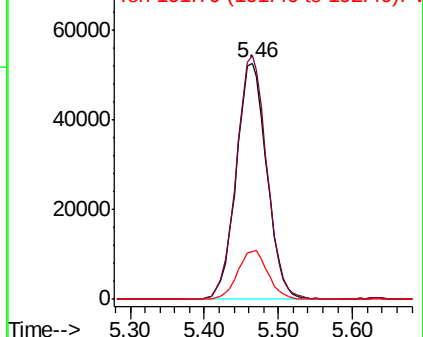
192 20.6 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.828 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

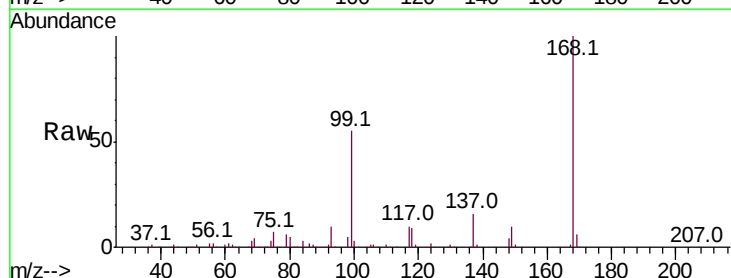
Tgt Ion: 75 Resp: 23423

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.3#

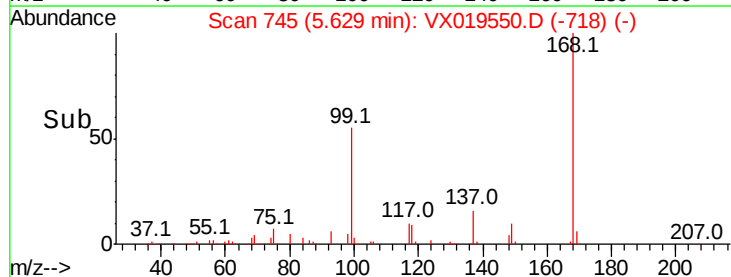
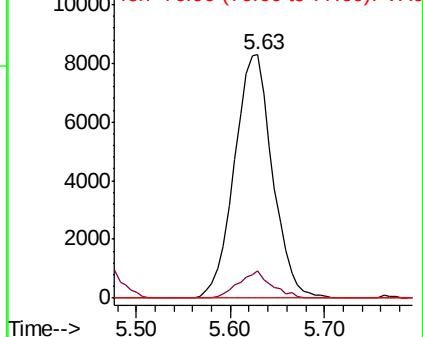
77 0.0 24.2 36.4#

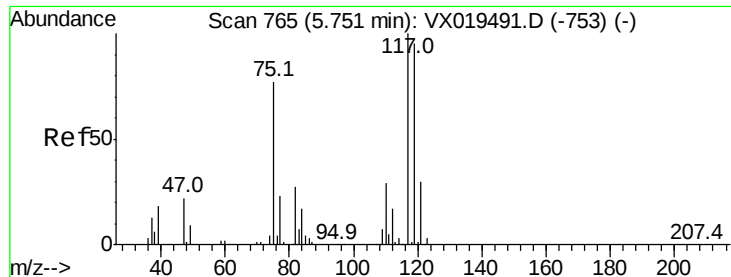


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.557 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

29BR-20201118

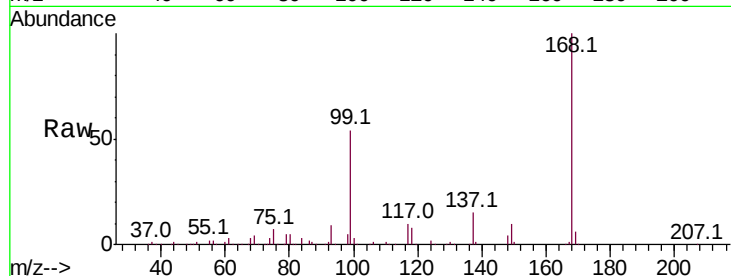
Tot Ion:117 Resp: 30788

Ion Ratio Lower Upper

117 100

119 4.9 75.9 113.9#

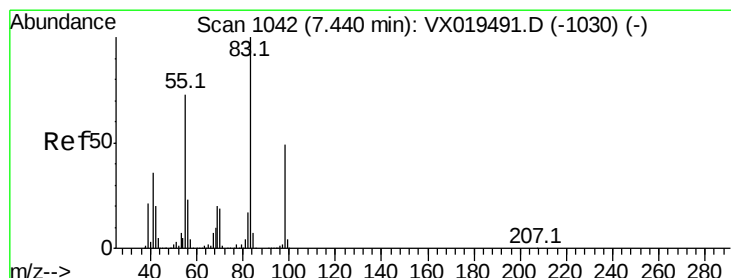
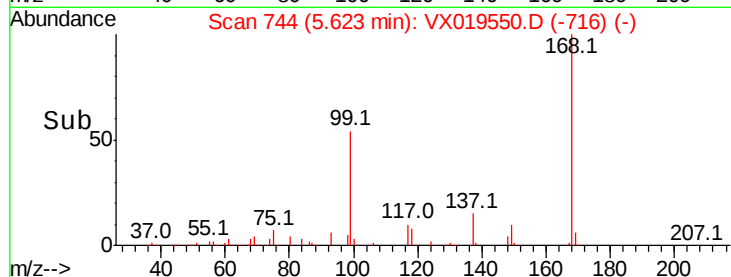
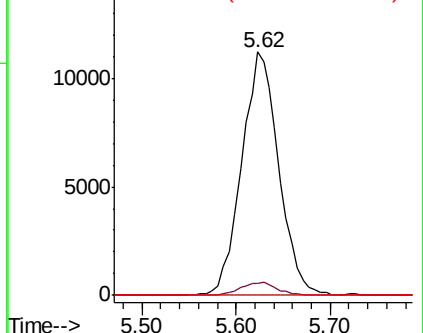
121 0.0 24.0 36.0#



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



#39

Methylcyclohexane

Concen: 25.774 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. -0.24 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

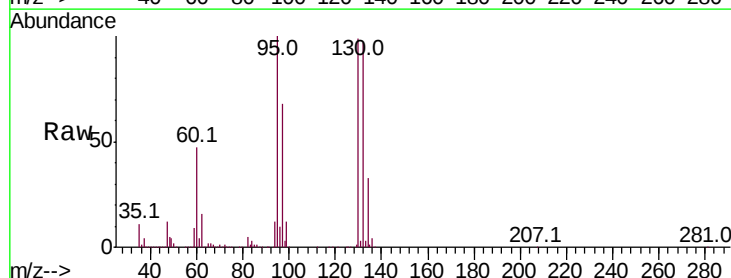
Tgt Ion: 83 Resp: 145580

Ion Ratio Lower Upper

83 100

55 0.4 58.3 87.5#

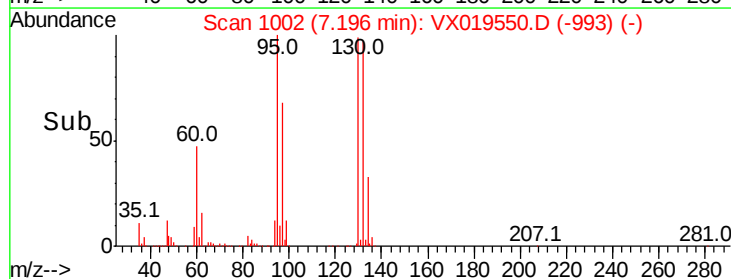
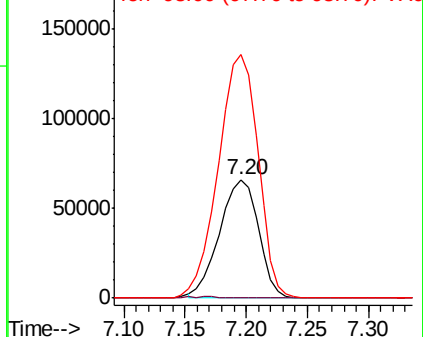
98 205.3 38.9 58.3#

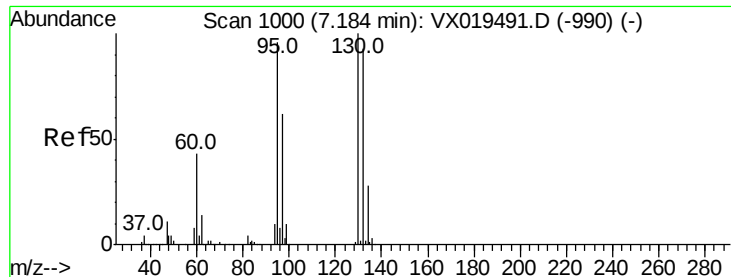


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 2929.351 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

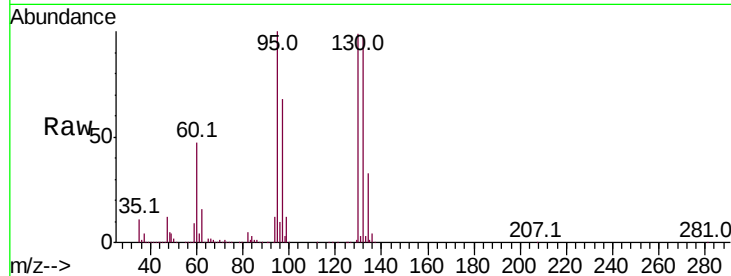
29BR-20201118

Tot Ion:130 Resp:11436661

Ion Ratio Lower Upper

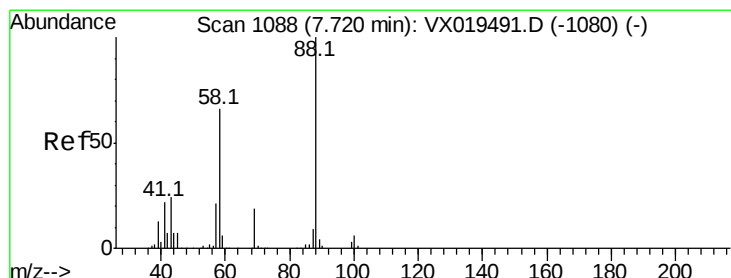
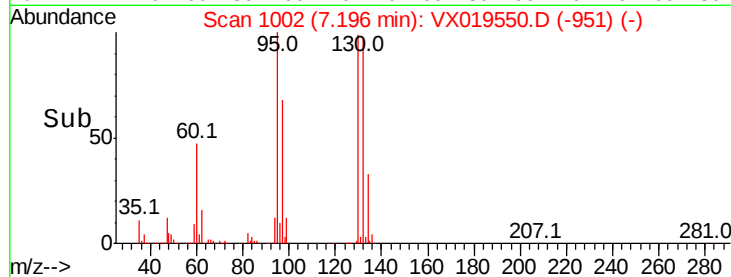
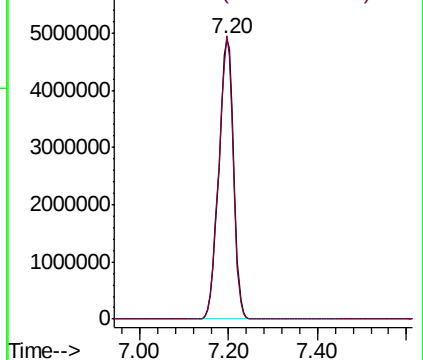
130 100

95 101.0 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.609 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

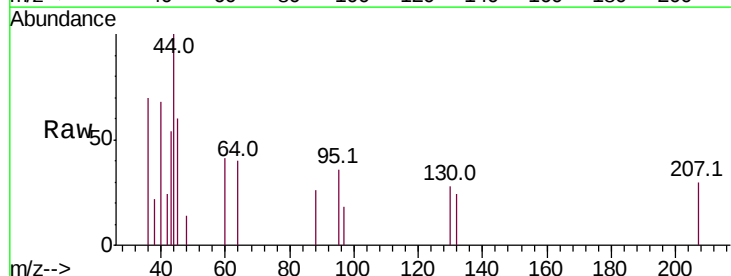
Tgt Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 103.8 23.8 35.6#

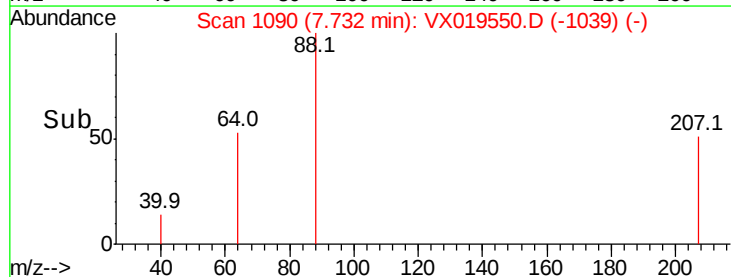
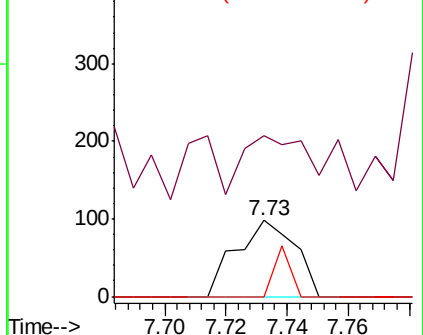
58 18.3 54.2 81.2#

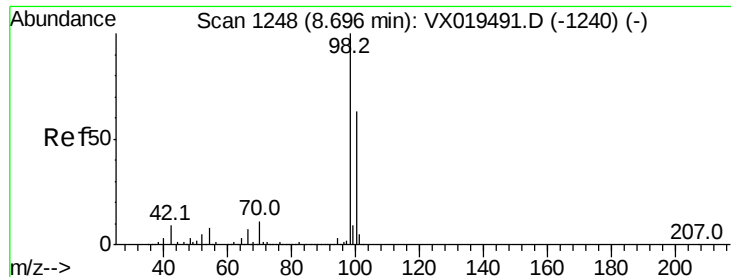


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

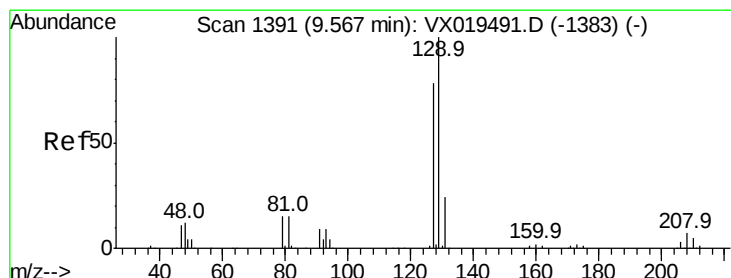
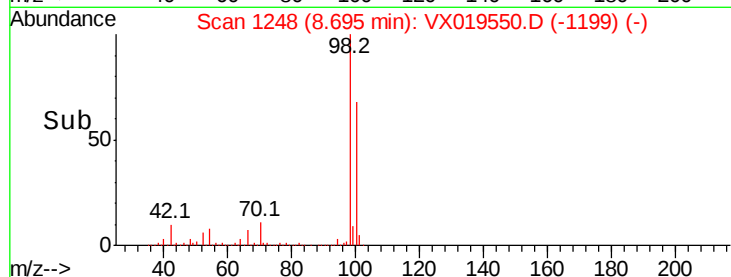
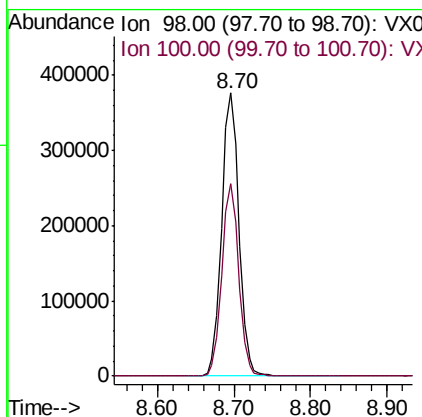
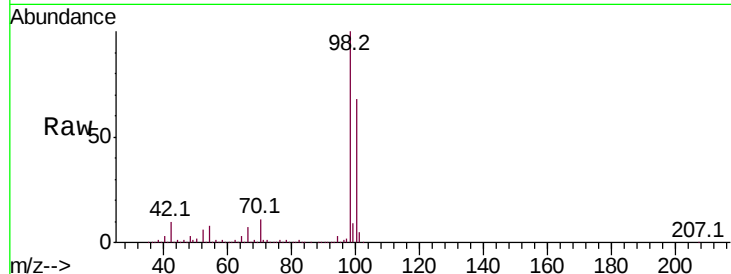




#50
Toluene-d8
Concen: 46.517 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

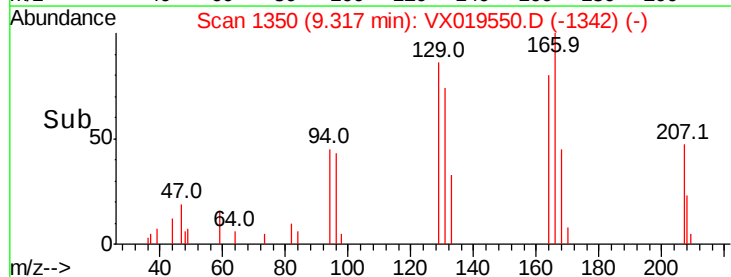
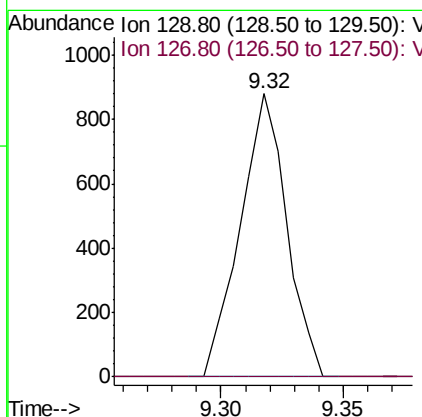
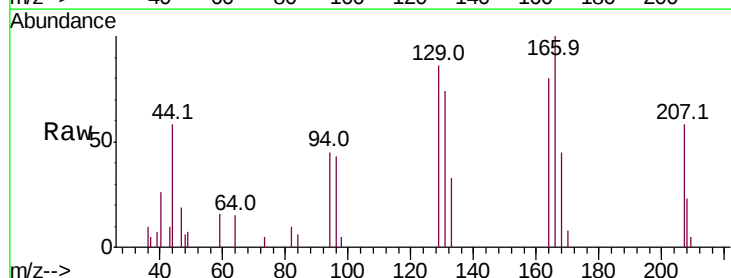
Instrument :
MSVOA_X
ClientSampleId :
29BR-20201118

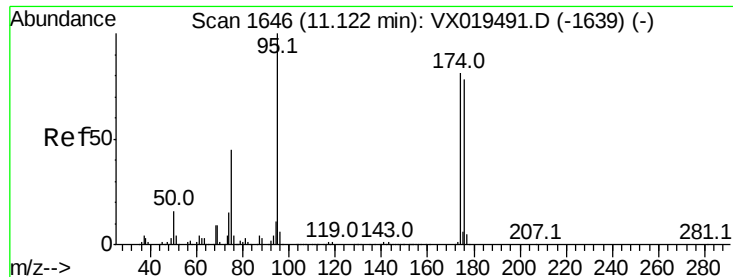
Tot Ion: 98 Resp: 587110
Ion Ratio Lower Upper
98 100
100 66.8 52.4 78.6



#60
Dibromochloromethane
Concen: 0.319 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.25 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Tgt Ion: 129 Resp: 1160
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#





#62

4-Bromofluorobenzene

Concen: 46.132 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

29BR-20201118

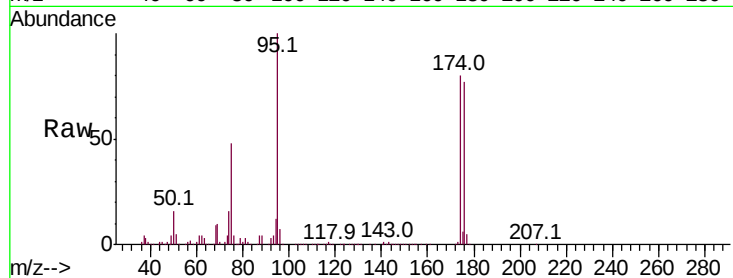
Tot Ion: 95 Resp: 209488

Ion Ratio Lower Upper

95 100

174 77.0 0.0 156.2

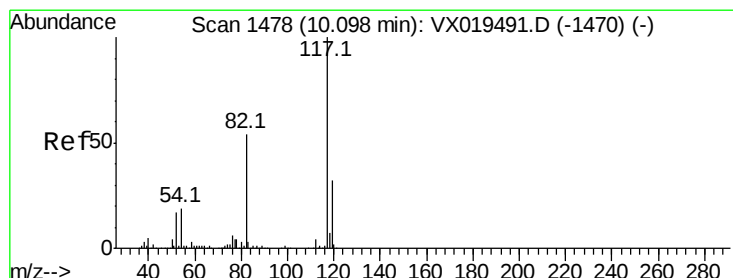
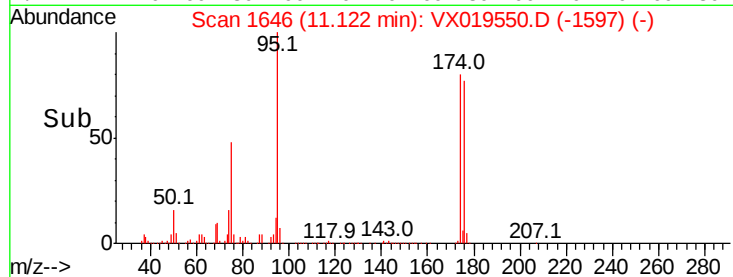
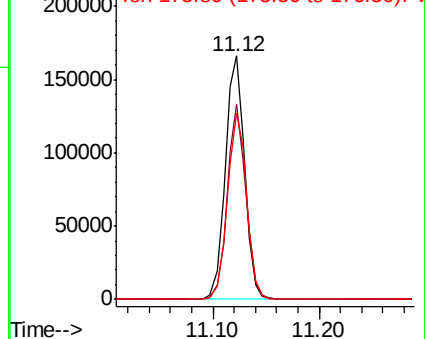
176 76.0 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX019550.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX019550.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX019550.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

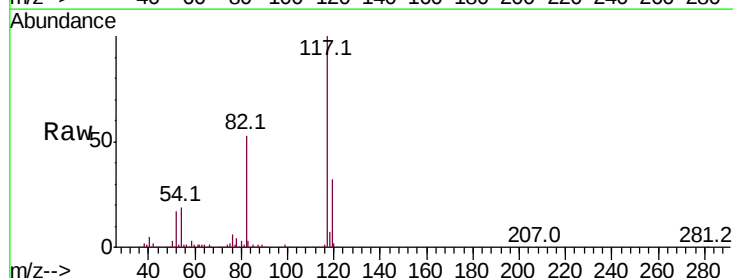
Tgt Ion: 117 Resp: 442672

Ion Ratio Lower Upper

117 100

82 53.0 43.0 64.4

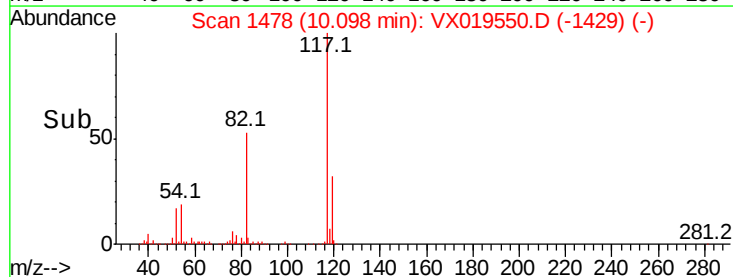
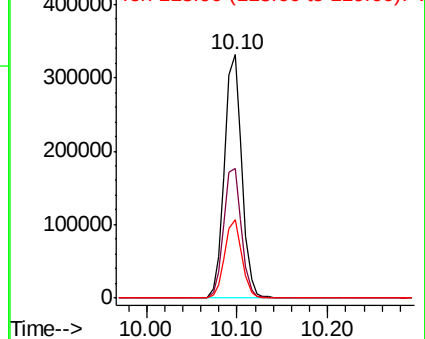
119 32.2 25.6 38.4

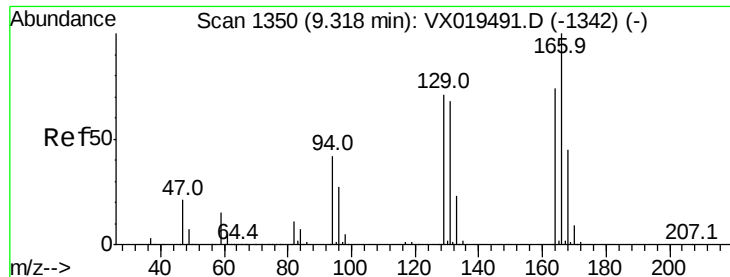


Abundance Ion 116.90 (116.60 to 117.60): VX019550.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX019550.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX019550.D (-1429) (-)





#64

Tetrachloroethene

Concen: 0.324 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

29BR-20201118

Tot Ion:164 Resp: 1129

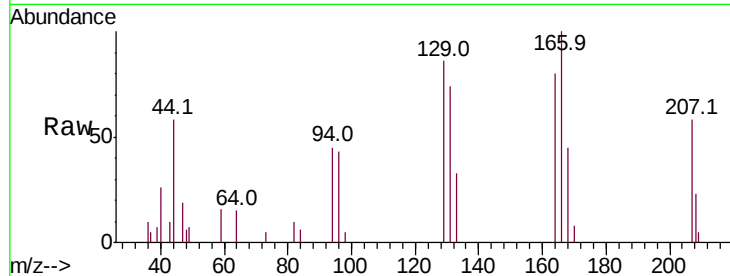
Ion Ratio Lower Upper

164 100

166 124.9 107.4 161.0

129 107.5 76.6 114.8

131 92.4 72.6 108.8

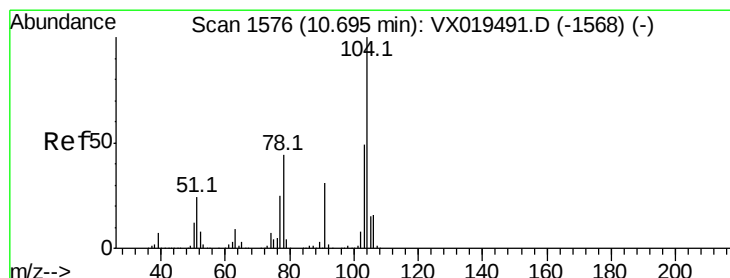
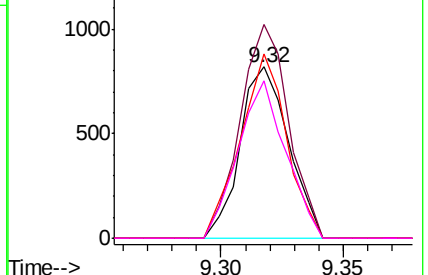
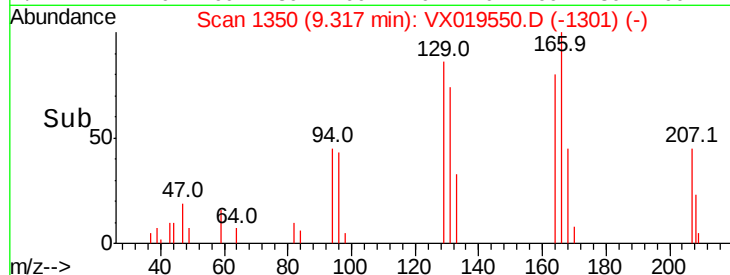


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#70

Styrene

Concen: 1.659 ug/l

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX019550.D

Acq: 23 Nov 2020 15:05

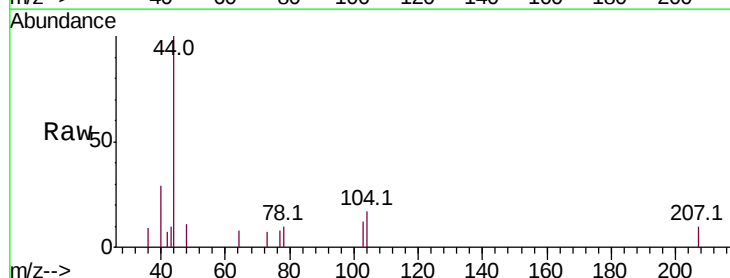
Tgt Ion:104 Resp: 149

Ion Ratio Lower Upper

104 100

78 33.6 39.5 59.3#

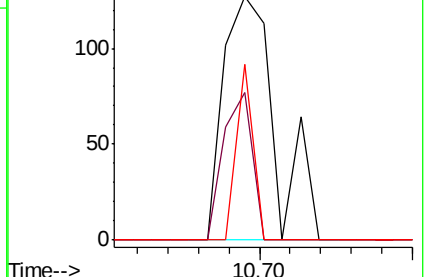
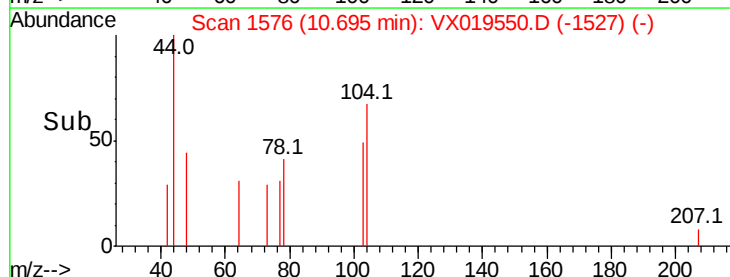
103 22.8 43.6 65.4#

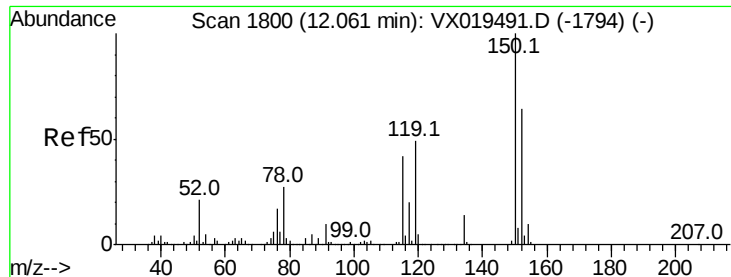


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): 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: VX019550.D

Acq: 23 Nov 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

29BR-20201118

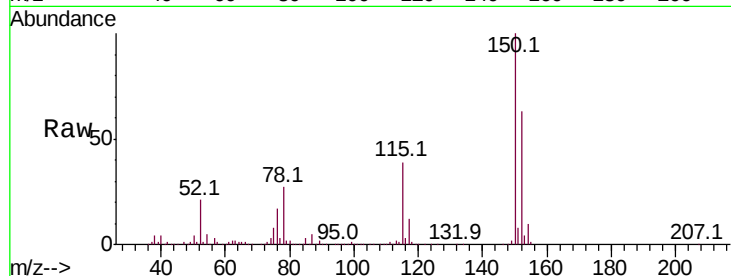
Tot Ion:152 Resp: 195108

Ion Ratio Lower Upper

152 100

115 60.4 41.8 125.4

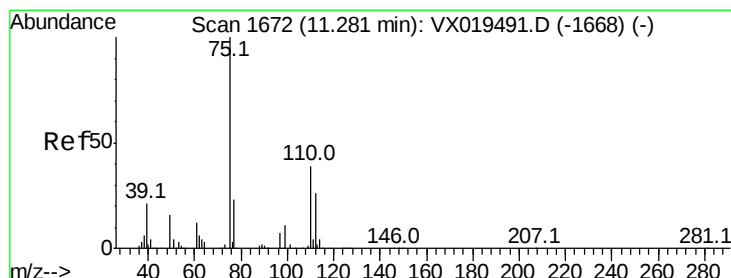
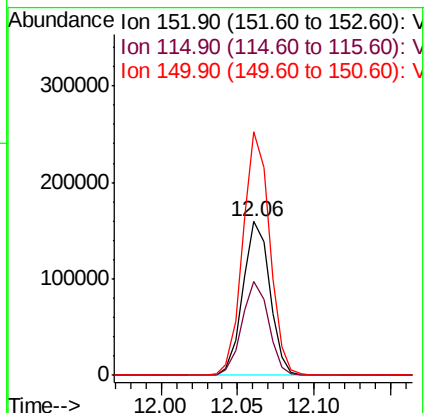
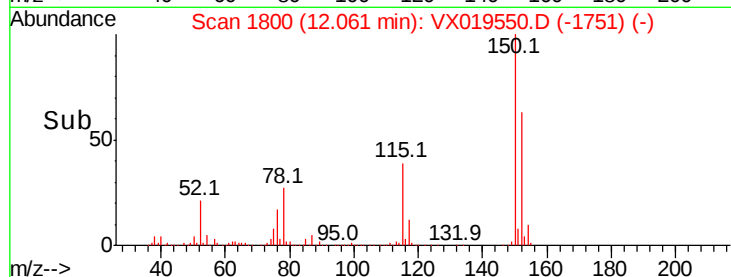
150 157.3 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.180 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019550.D

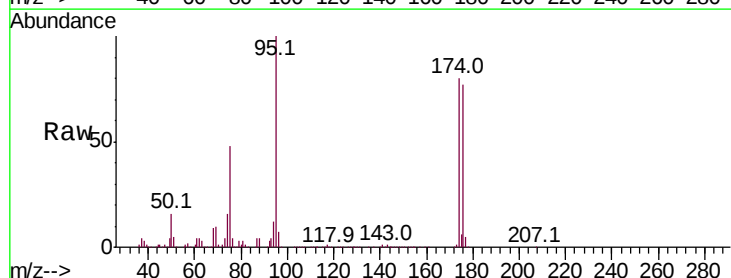
Acq: 23 Nov 2020 15:05

Tgt Ion: 75 Resp: 102955

Ion Ratio Lower Upper

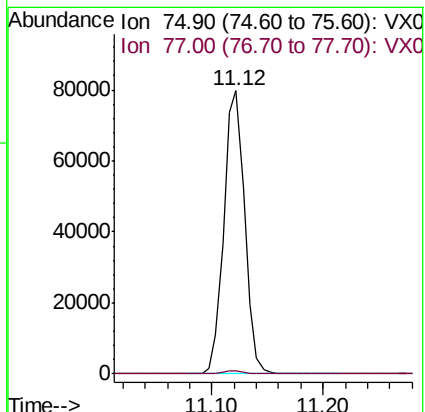
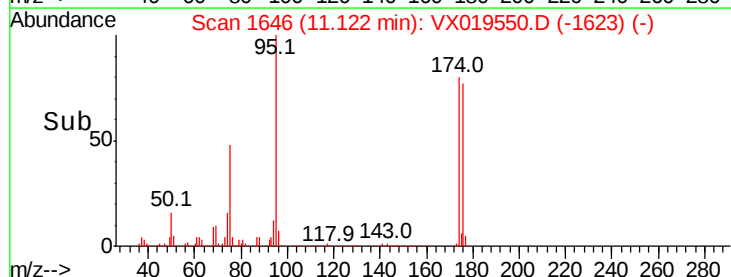
75 100

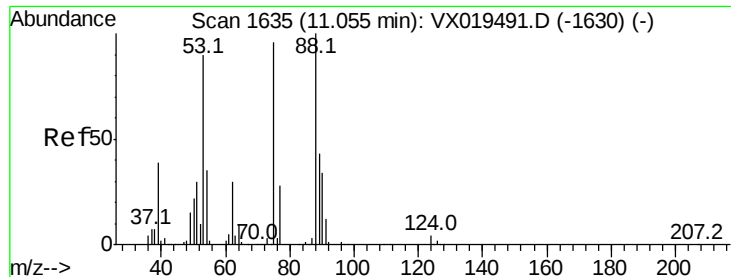
77 1.0 20.0 60.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

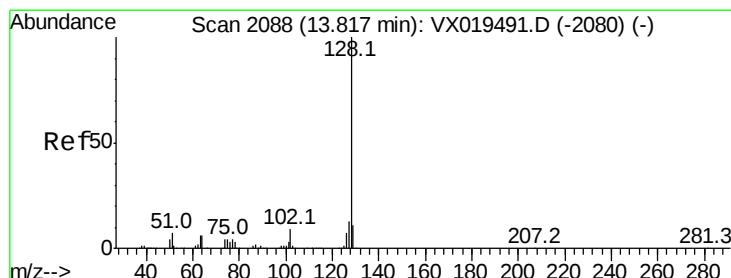
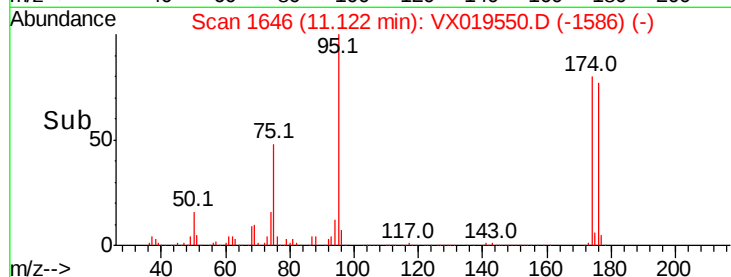
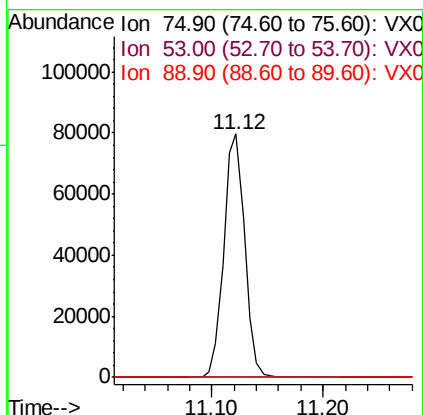
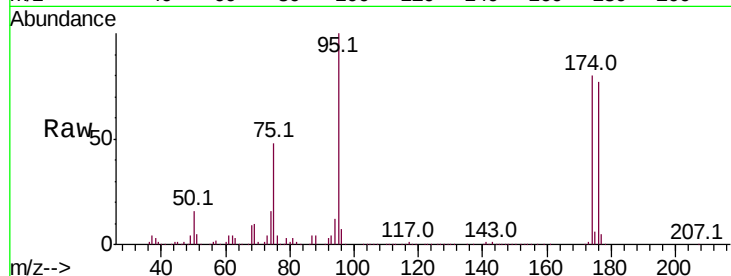




#81
trans-1,4-Dichloro-2-butene
Concen: 64.011 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Instrument :
MSVOA_X
ClientSampleId :
29BR-20201118

Tot Ion: 75 Resp: 102955
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.3 55.9#



#95
Naphthalene
Concen: 2.206 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019550.D
Acq: 23 Nov 2020 15:05

Tgt Ion: 128 Resp: 420
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.7 13.1#

