

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112520\
 Data File : VX019657.D
 Acq On : 25 Nov 2020 15:31
 Operator : JC/MD
 Sample : L4840-06DL 1000X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 30738DL

Quant Time: Nov 26 04:59:34 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	306769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	508826	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	445608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	186510	50.00	ug/l	0.00

System Monitoring Compounds

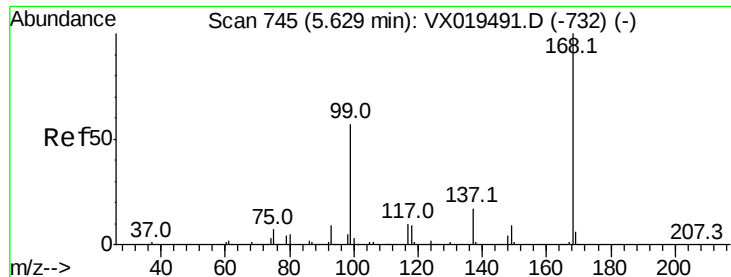
33) 1,2-Dichloroethane-d4	6.03	65	189830	47.73	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.46%
35) Dibromofluoromethane	5.46	113	149537	46.82	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.64%
50) Toluene-d8	8.70	98	603798	48.65	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.30%
62) 4-Bromofluorobenzene	11.12	95	206044	46.14	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.28%

Target Compounds

					Qvalue
5) Bromomethane	1.62	94	581	0.416 ug/l #	44
6) Chloroethane	1.70	64	412	Below Cal #	41
11) Tert butyl alcohol	2.99	59	16196	21.516 ug/l #	76
13) Acrolein	2.29	56	535	1.057 ug/l	98
14) Allyl chloride	2.60	41	2553	0.535 ug/l #	57
16) Acetone	2.42	43	612032	397.894 ug/l	100
18) Methyl Acetate	2.60	43	8659	2.901 ug/l #	47
20) Methylene Chloride	2.82	84	3161	0.822 ug/l #	85
22) Diisopropyl ether	3.94	45	21482	2.176 ug/l #	1
23) Vinyl Acetate	3.94	43	50920	6.151 ug/l #	68
25) 2-Butanone	4.65	43	998	0.432 ug/l #	78
29) Tetrahydrofuran	5.10	42	989	0.671 ug/l #	38
31) Cyclohexane	5.62	56	6050	1.169 ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22958	4.813 ug/l #	49
38) Carbon Tetrachloride	5.62	117	29861	6.467 ug/l #	16
70) Styrene	10.70	104	291	1.672 ug/l #	77
76) 1,2,3-Trichloropropane	11.12	75	99285	24.393 ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	99285	64.538 ug/l #	12
95) Naphthalene	13.82	128	1110	2.255 ug/l	97

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

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Misc : 5.0mL/MSVOA X/WATER
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleID :

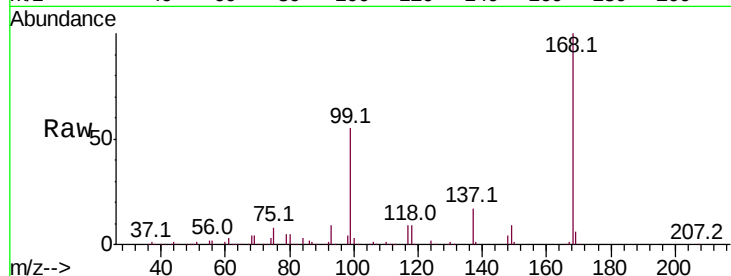
30738DL

Tot Ion:168 Resp: 306769

Ion Ratio Lower Upper

168 100

99 55.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

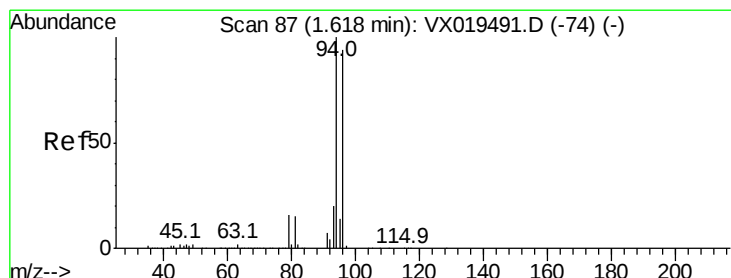
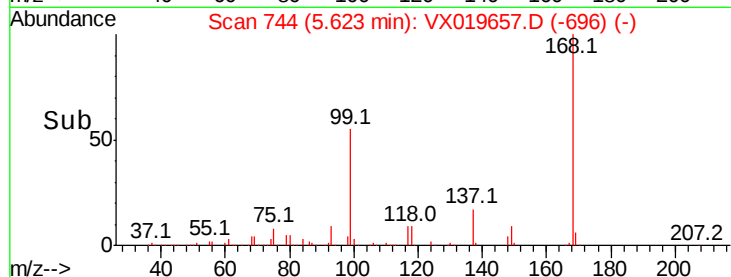
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.416 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019657.D

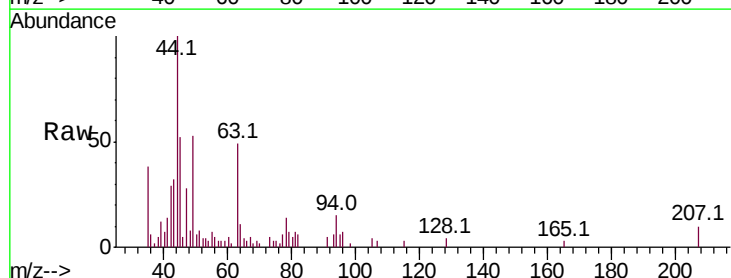
Acq: 25 Nov 2020 15:31

Tgt Ion: 94 Resp: 581

Ion Ratio Lower Upper

94 100

96 40.5 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

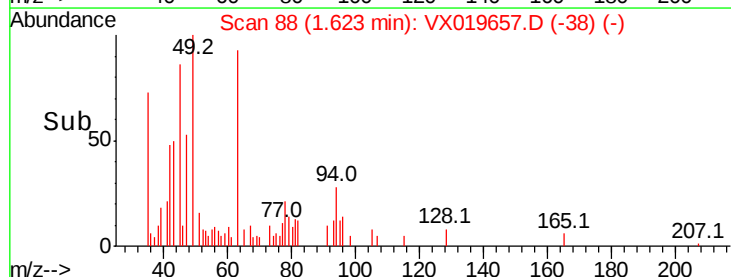
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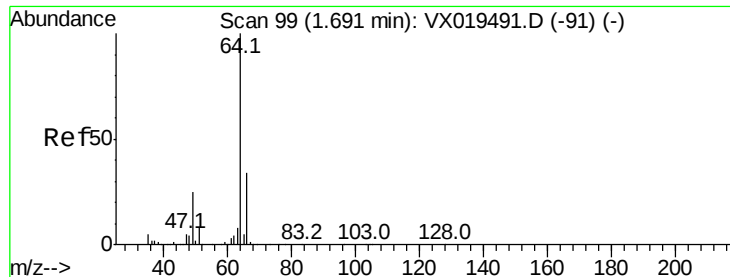
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleID :

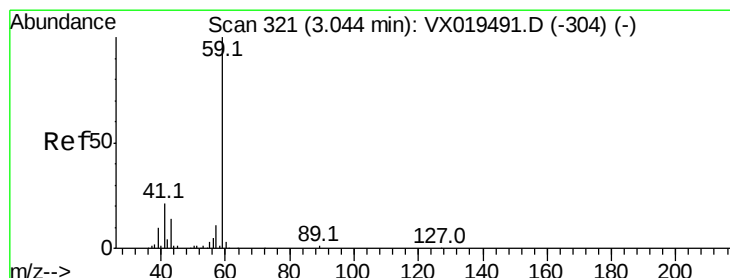
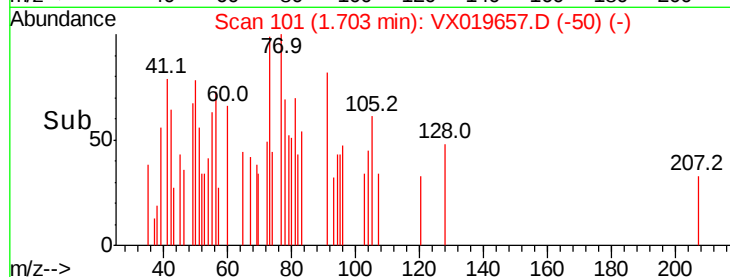
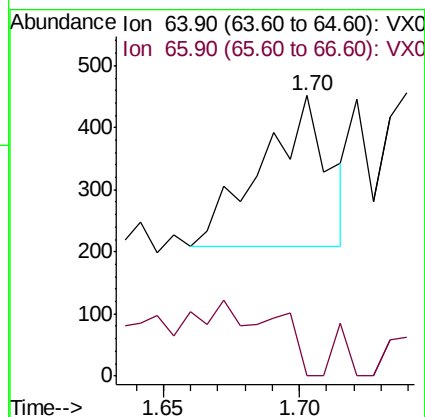
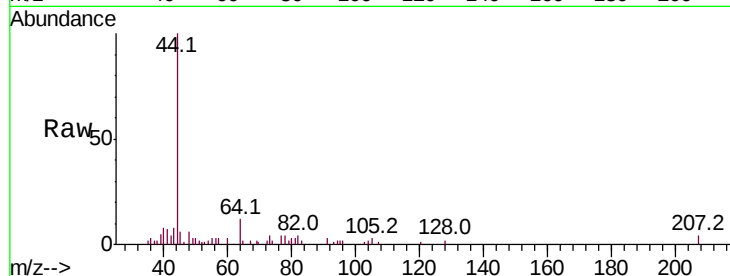
30738DL

Tot Ion: 64 Resp: 412

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



#11

Tert butyl alcohol

Concen: 21.516 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.06 min

Lab File: VX019657.D

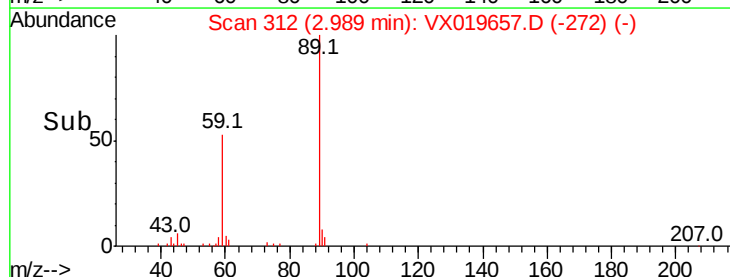
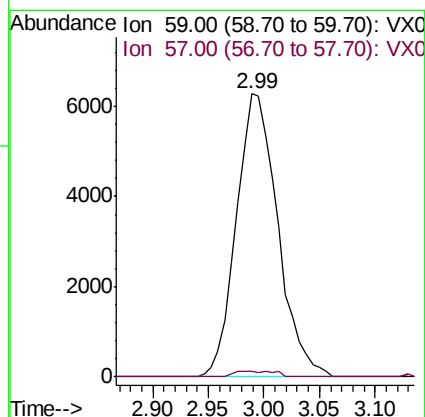
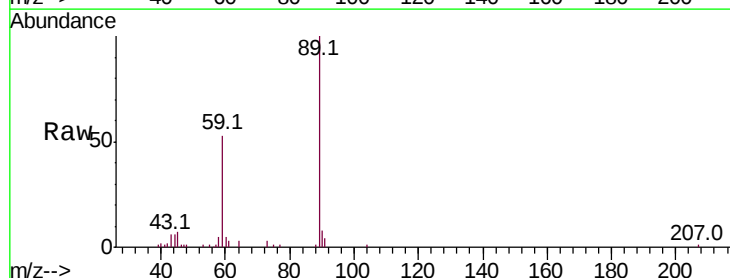
Acq: 25 Nov 2020 15:31

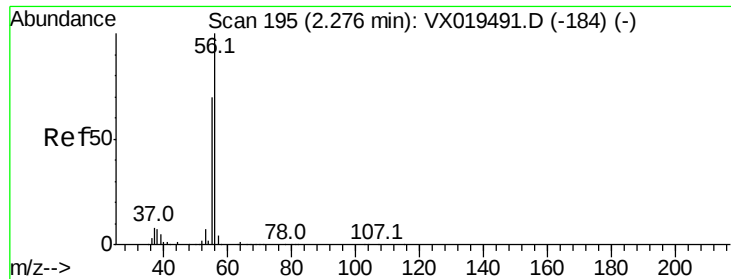
Tgt Ion: 59 Resp: 16196

Ion Ratio Lower Upper

59 100

57 1.2 7.9 11.9#





#13

Acrolein

Concen: 1.057 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampled :

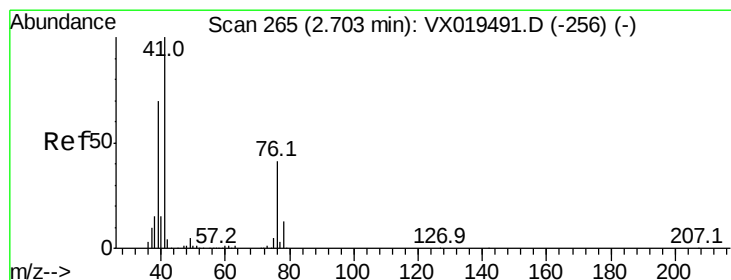
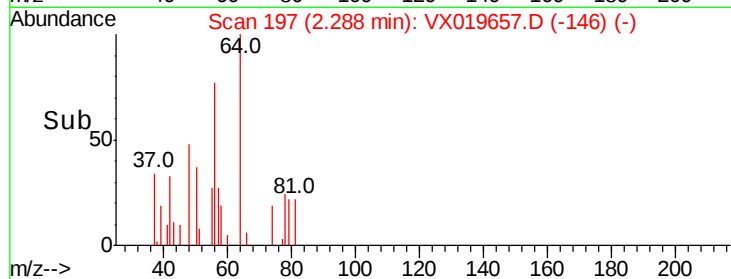
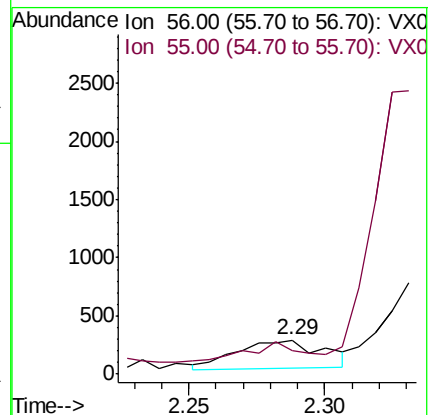
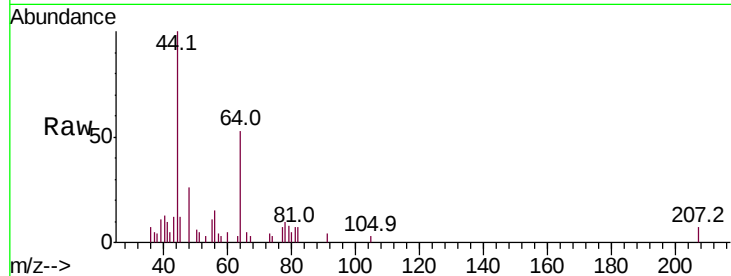
30738DL

Tot Ion: 56 Resp: 535

Ion Ratio Lower Upper

56 100

55 71.4 55.5 83.3



#14

Allyl chloride

Concen: 0.535 ug/l

RT: 2.60 min Scan# 248

Delta R.T. -0.10 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

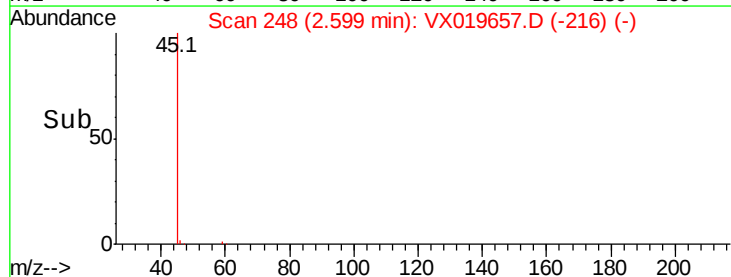
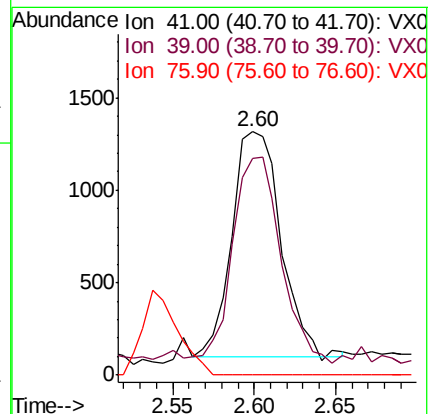
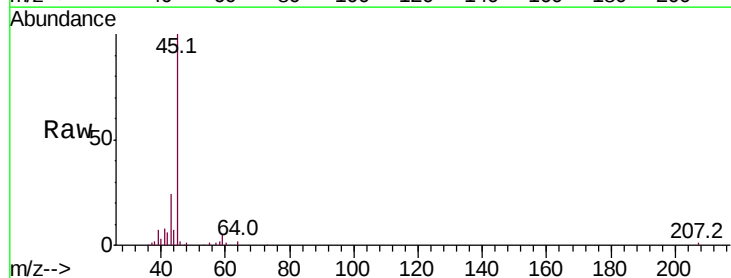
Tgt Ion: 41 Resp: 2553

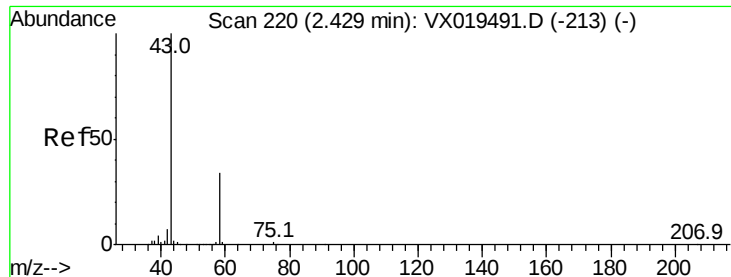
Ion Ratio Lower Upper

41 100

39 90.2 53.0 79.4#

76 0.0 31.0 46.6#





#16

Acetone

Concen: 397.894 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

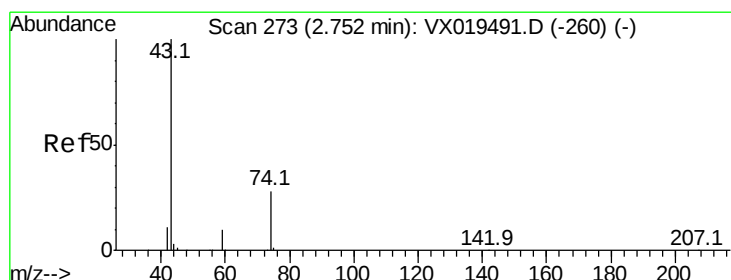
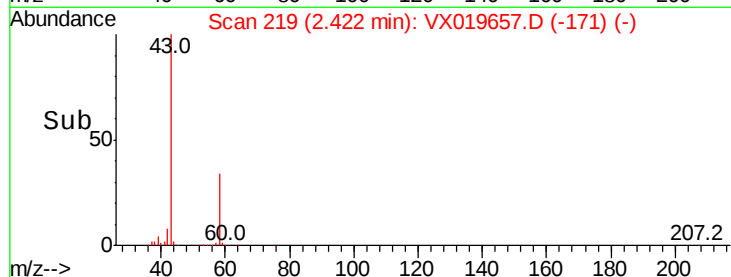
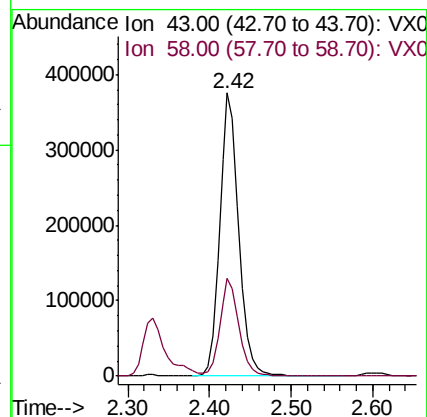
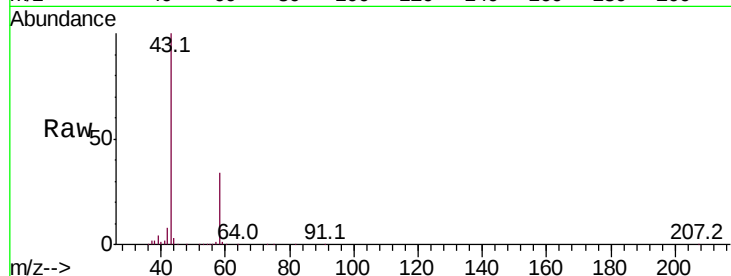
30738DL

Tot Ion: 43 Resp: 612032

Ion Ratio Lower Upper

43 100

58 34.3 27.4 41.2



#18

Methyl Acetate

Concen: 2.901 ug/l

RT: 2.60 min Scan# 248

Delta R.T. -0.15 min

Lab File: VX019657.D

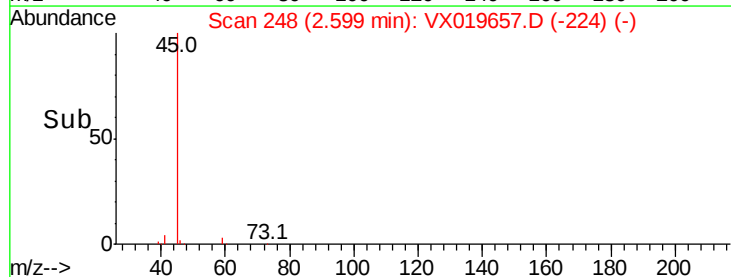
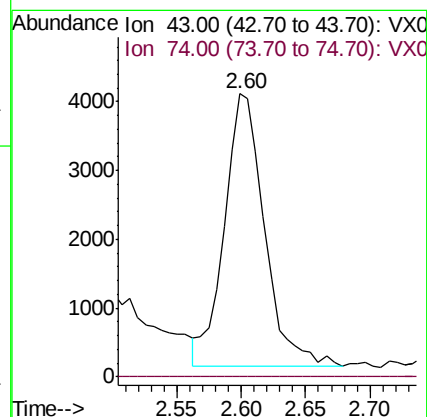
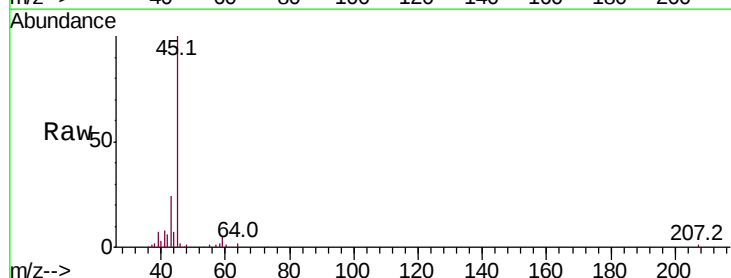
Acq: 25 Nov 2020 15:31

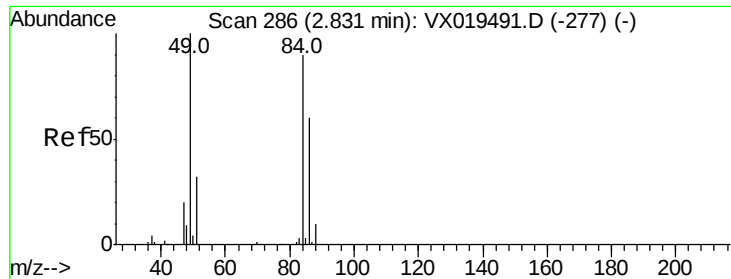
Tgt Ion: 43 Resp: 8659

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.4#

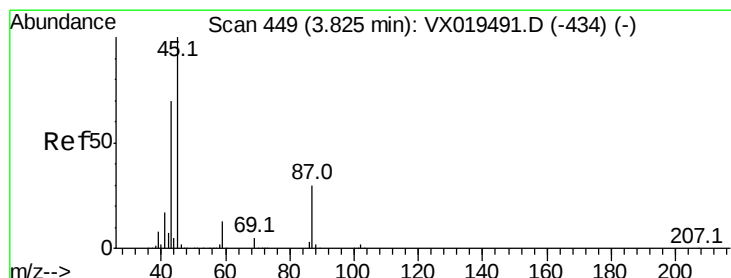
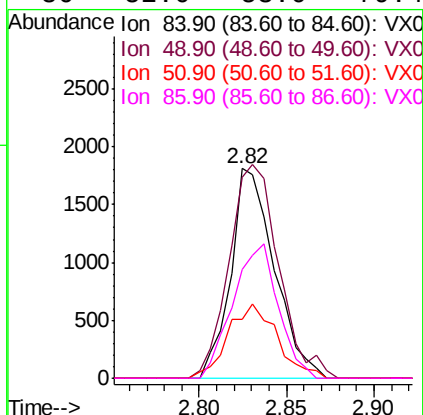
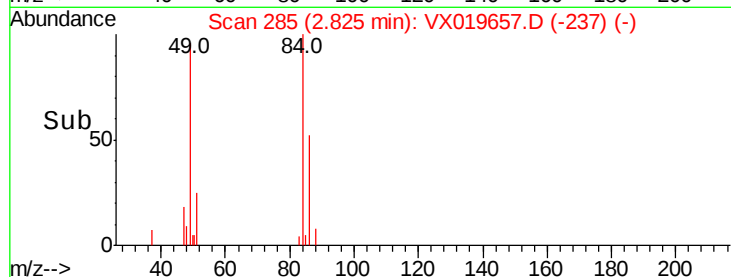
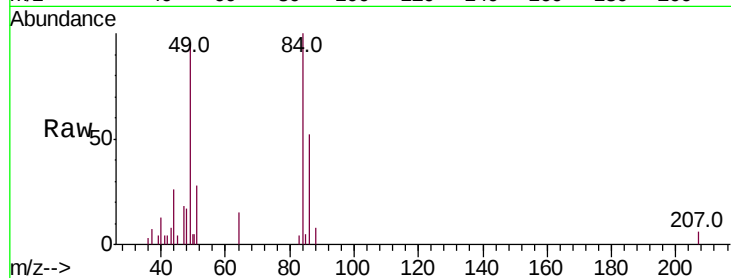




#20
Methvlene Chloride
Concen: 0.822 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019657.D
Acq: 25 Nov 2020 15:31

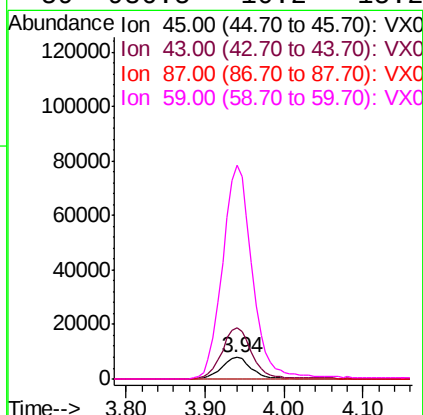
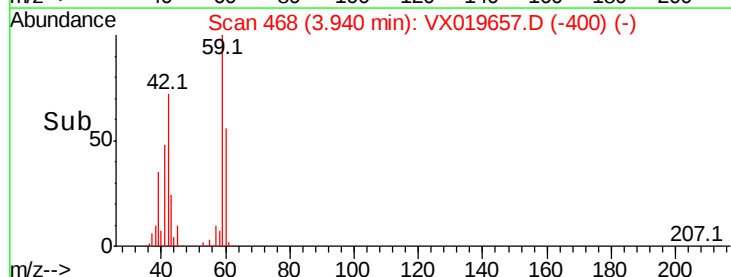
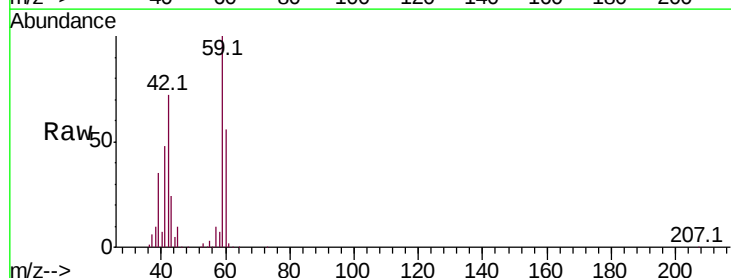
Instrument :
MSVOA_X
ClientSampled :
30738DL

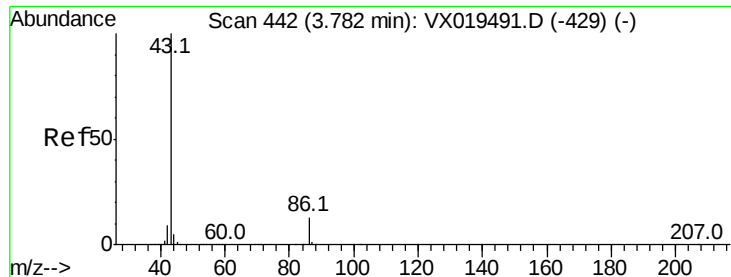
Tot Ion: 84 Resp: 3161
Ion Ratio Lower Upper
84 100
49 95.9 88.5 132.7
51 27.9 28.0 42.0#
86 52.0 53.0 79.4#



#22
Diisopropyl ether
Concen: 2.176 ug/l
RT: 3.94 min Scan# 468
Delta R.T. 0.12 min
Lab File: VX019657.D
Acq: 25 Nov 2020 15:31

Tgt Ion: 45 Resp: 21482
Ion Ratio Lower Upper
45 100
43 238.3 56.1 84.1#
87 0.0 24.2 36.2#
59 986.5 10.2 15.2#





#23

Vinyl Acetate

Concen: 6.151 ug/l

RT: 3.94 min Scan# 468

Delta R.T. 0.16 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

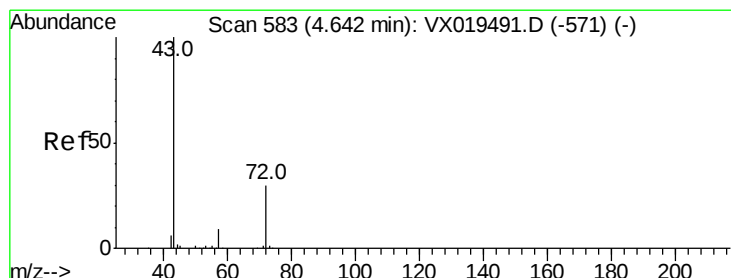
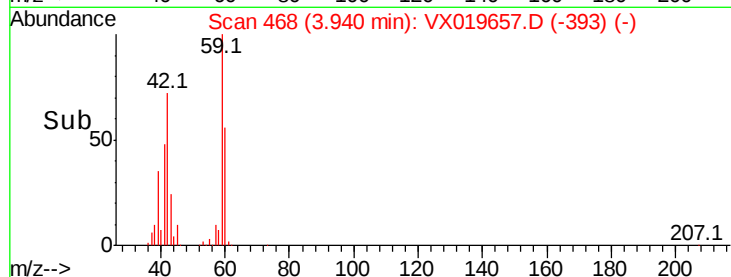
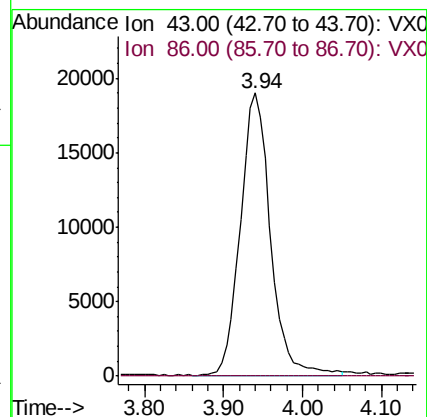
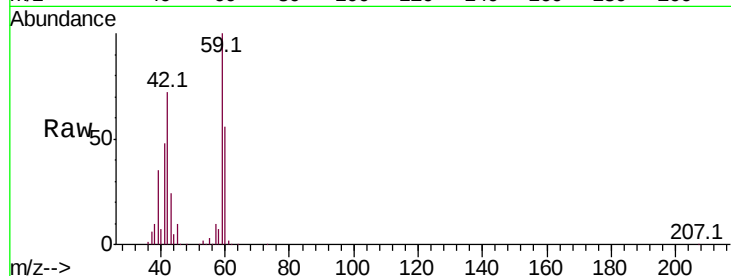
30738DL

Tot Ion: 43 Resp: 50920

Ion Ratio Lower Upper

43 100

86 0.0 10.2 15.2#



#25

2-Butanone

Concen: 0.432 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019657.D

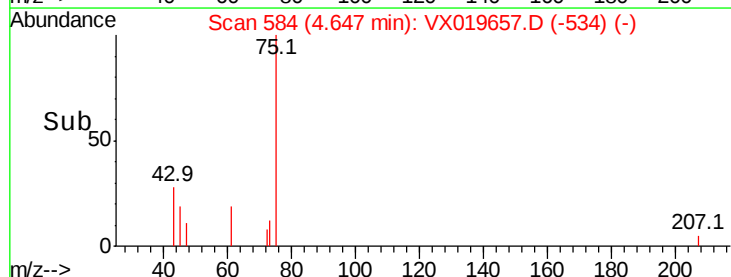
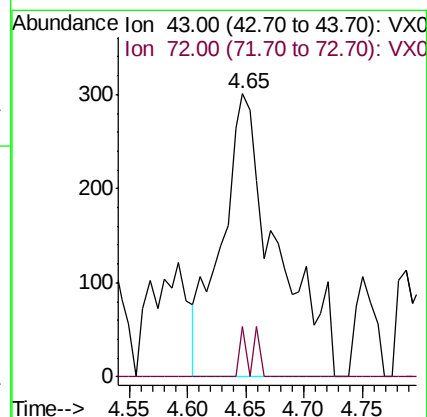
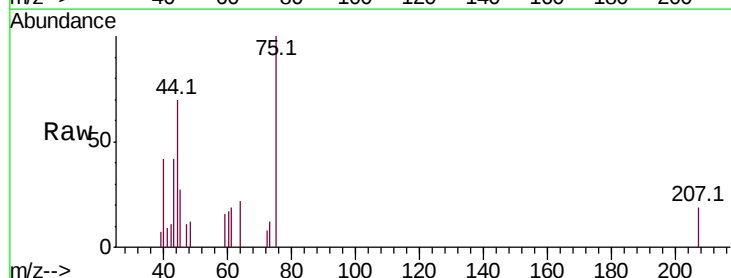
Acq: 25 Nov 2020 15:31

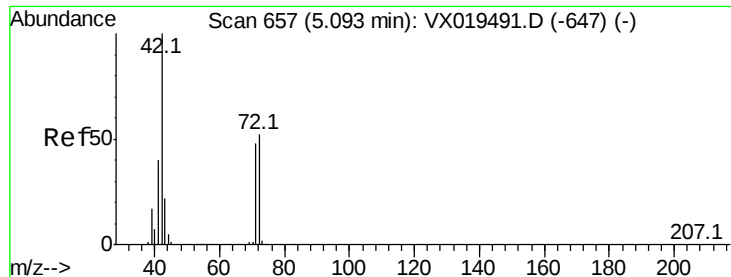
Tgt Ion: 43 Resp: 998

Ion Ratio Lower Upper

43 100

72 17.9 24.0 36.0#

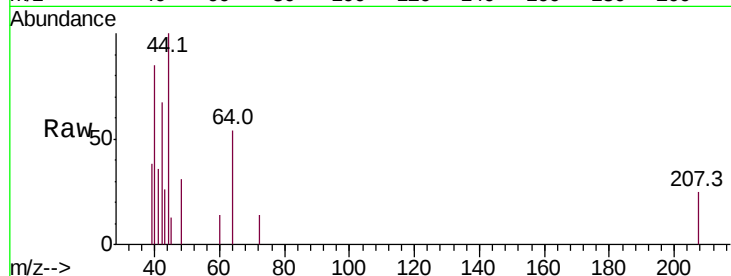




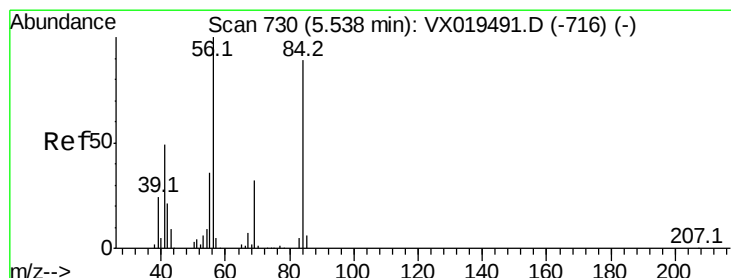
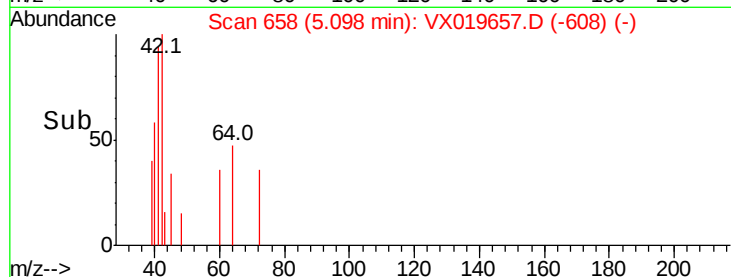
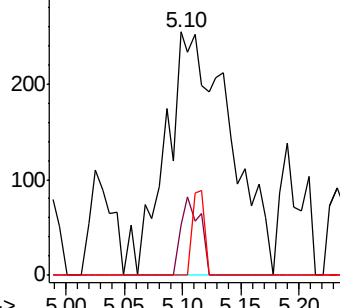
#29
Tetrahydrofuran
Concen: 0.671 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX019657.D
Acq: 25 Nov 2020 15:31

Instrument :
MSVOA_X
ClientSampleId :
30738DL

Tot Ion: 42 Resp: 989
Ion Ratio Lower Upper
42 100
72 9.4 42.6 63.8#
71 6.5 39.0 58.6#

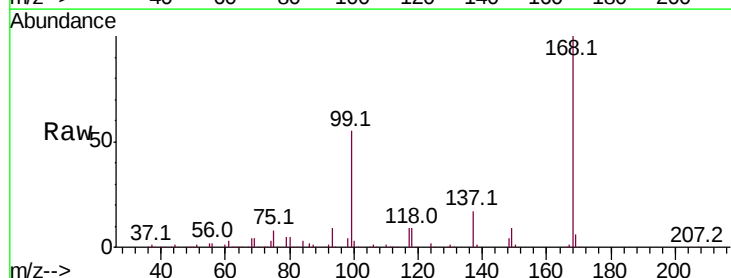


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

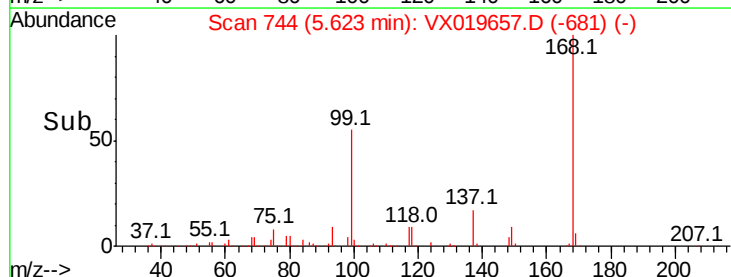
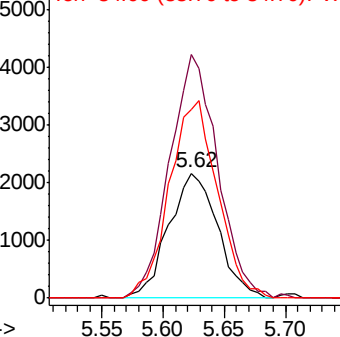


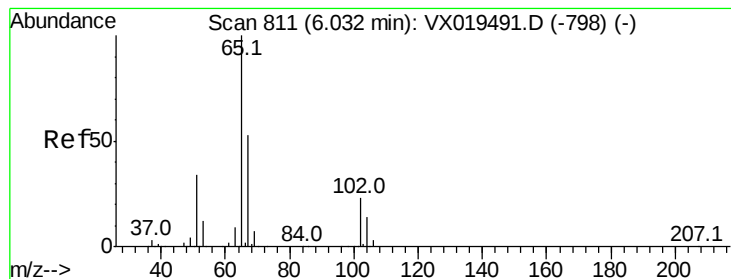
#31
Cyclohexane
Concen: 1.169 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.09 min
Lab File: VX019657.D
Acq: 25 Nov 2020 15:31

Tgt Ion: 56 Resp: 6050
Ion Ratio Lower Upper
56 100
69 195.3 25.5 38.3#
84 151.1 71.1 106.7#



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





#33

1,2-Dichloroethane-d4

Concen: 47.726 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

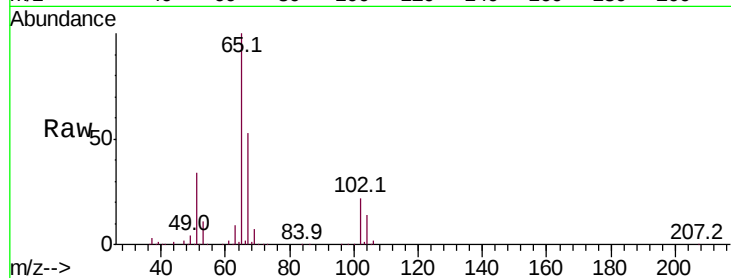
30738DL

Tot Ion: 65 Resp: 189830

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

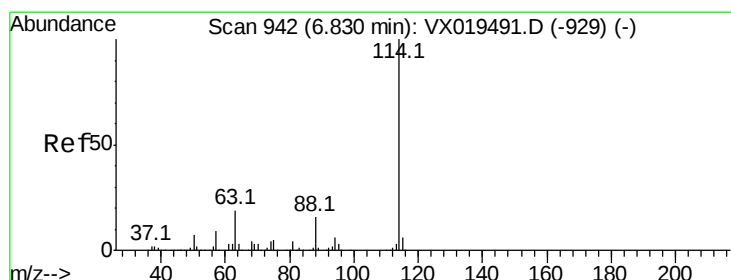
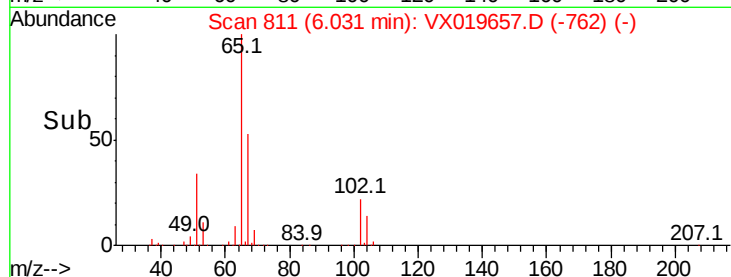
40000

20000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

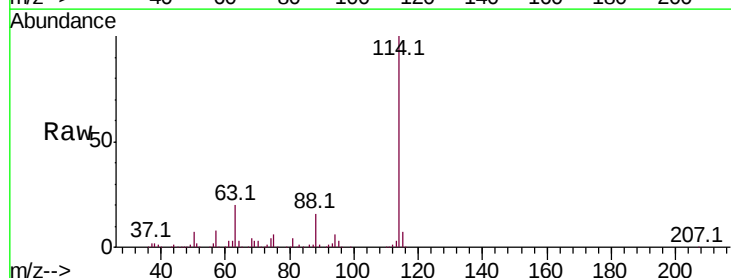
Tgt Ion: 114 Resp: 508826

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.8

88 16.1 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.83

250000

200000

150000

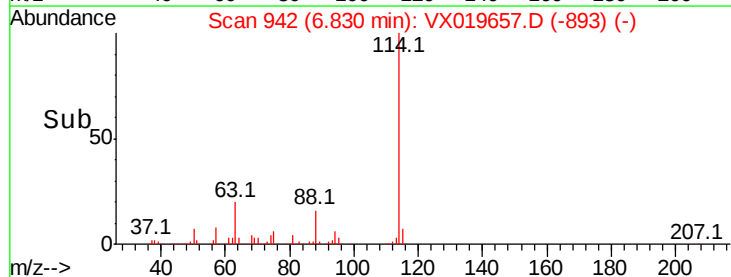
100000

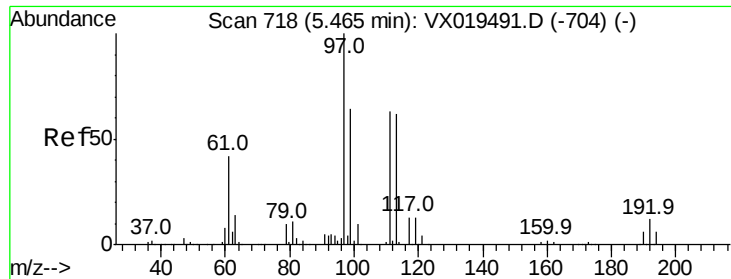
50000

0

6.80 7.00

Time-->

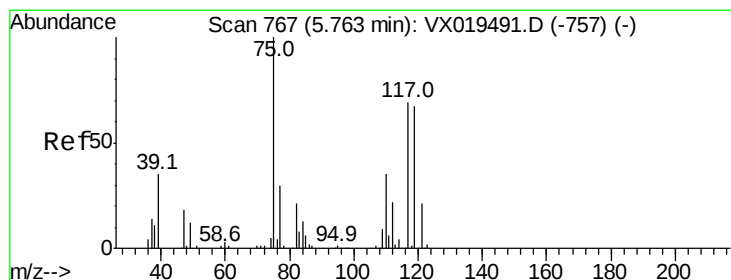
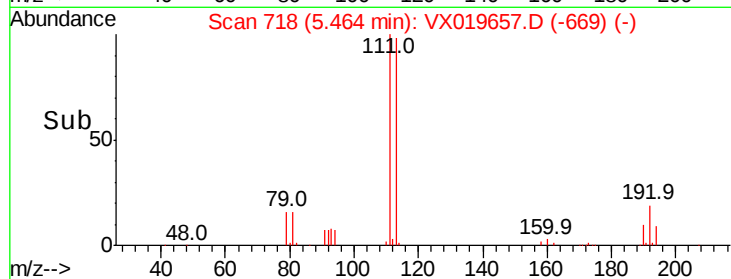
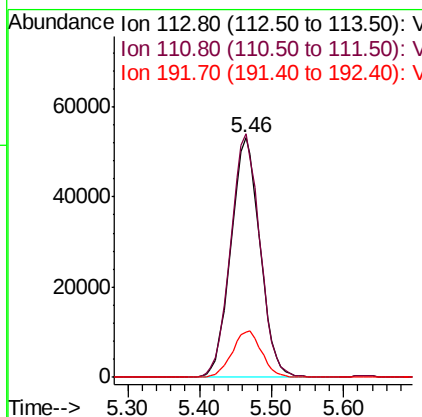
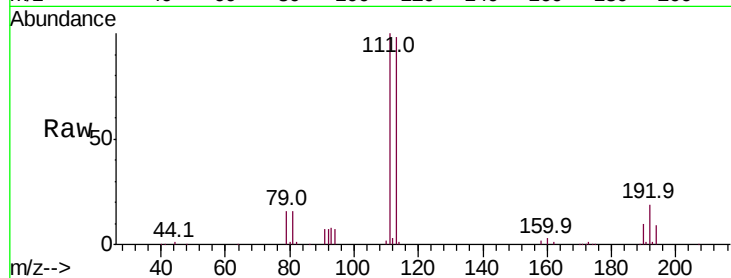




#35
 Dibromofluoromethane
 Concen: 46.820 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX019657.D
 Acq: 25 Nov 2020 15:31

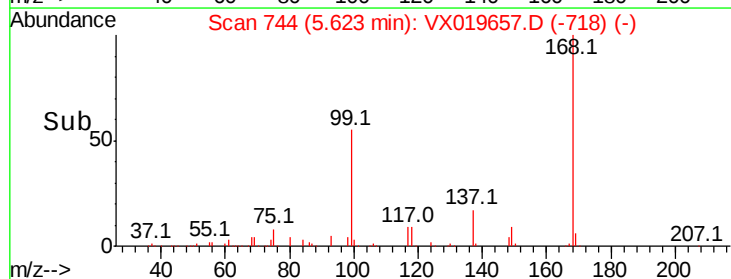
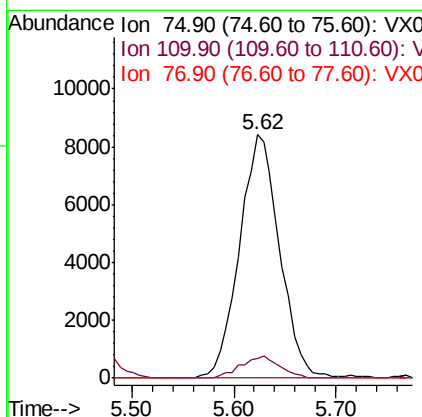
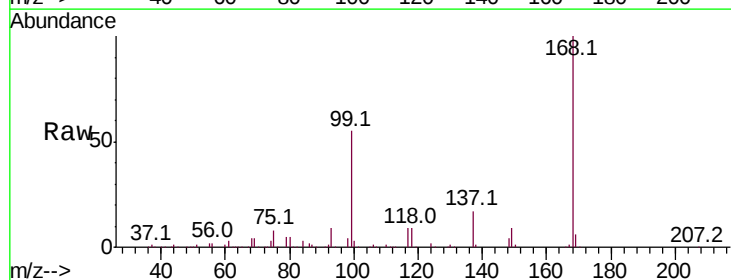
Instrument :
 MSVOA_X
 ClientSampleID :
 30738DL

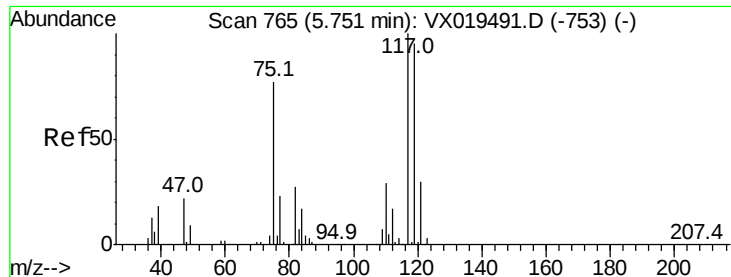
Tot Ion:113 Resp: 149537
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.5 122.3
 192 19.7 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.813 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019657.D
 Acq: 25 Nov 2020 15:31

Tgt Ion: 75 Resp: 22958
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.467 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampled :

30738DL

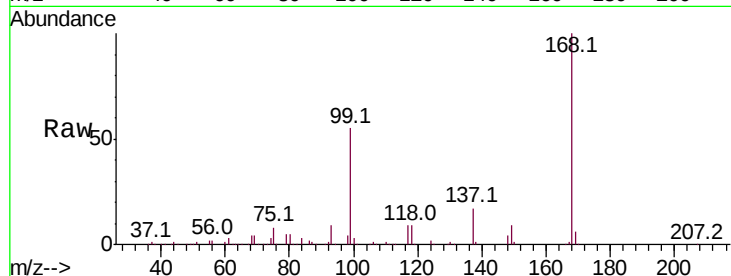
Tot Ion:117 Resp: 29861

Ion Ratio Lower Upper

117 100

119 4.3 75.9 113.9#

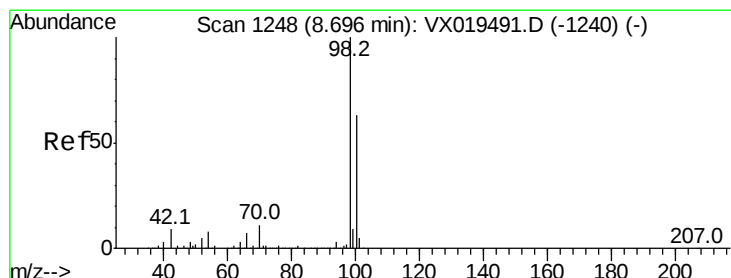
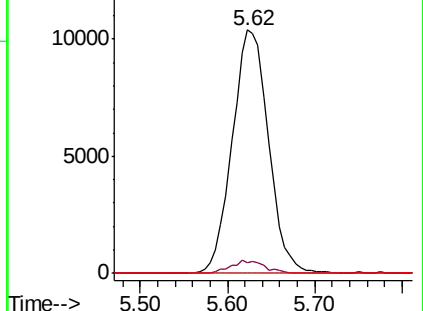
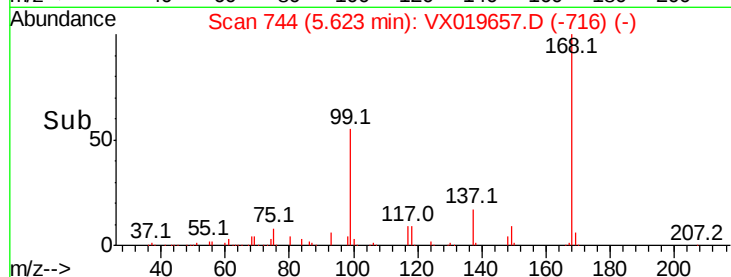
121 0.0 24.0 36.0#



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



#50

Toluene-d8

Concen: 48.650 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019657.D

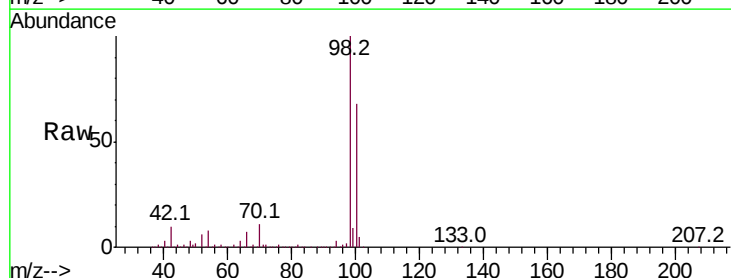
Acq: 25 Nov 2020 15:31

Tgt Ion: 98 Resp: 603798

Ion Ratio Lower Upper

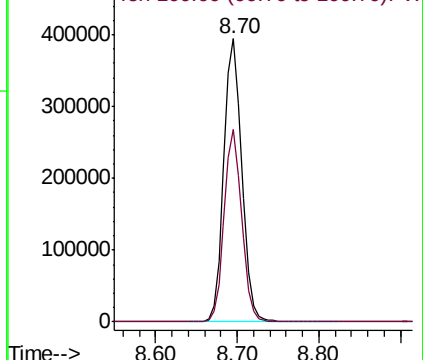
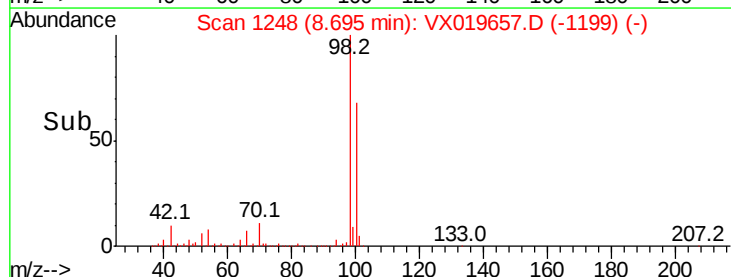
98 100

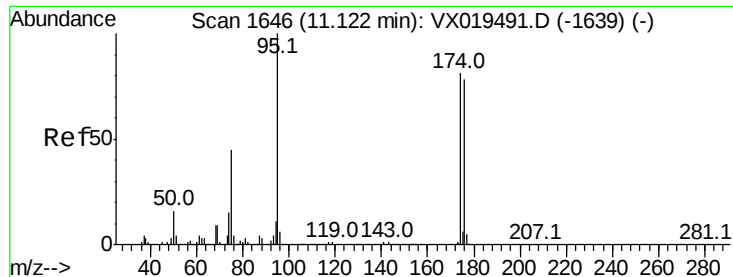
100 66.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.143 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

30738DL

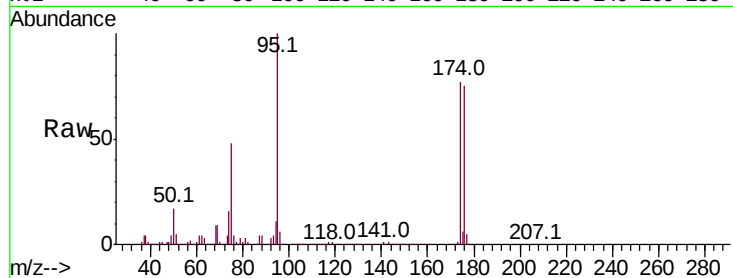
Tot Ion: 95 Resp: 206044

Ion Ratio Lower Upper

95 100

174 75.7 0.0 156.2

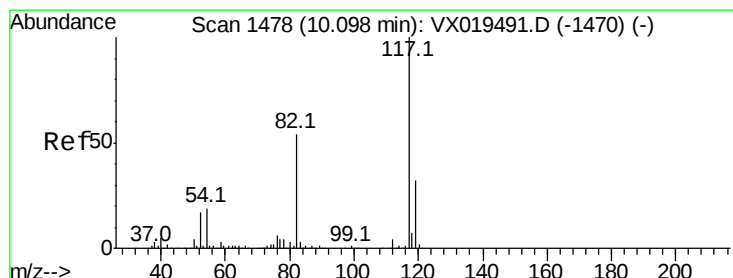
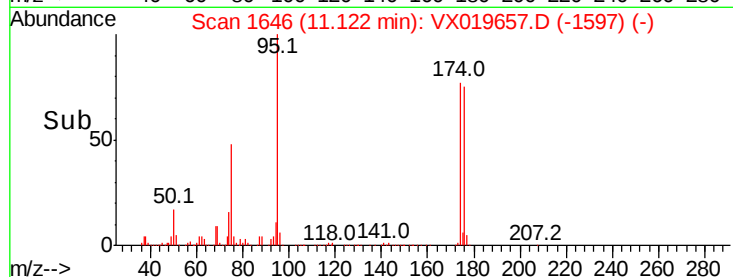
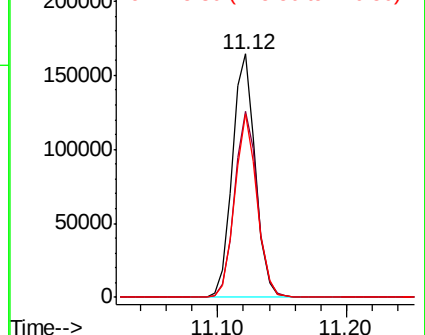
176 73.1 0.0 151.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

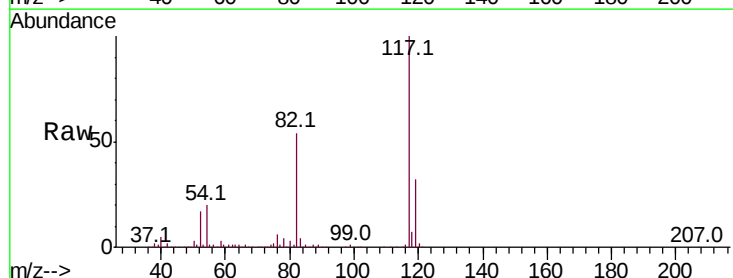
Tgt Ion: 117 Resp: 445608

Ion Ratio Lower Upper

117 100

82 53.6 43.0 64.4

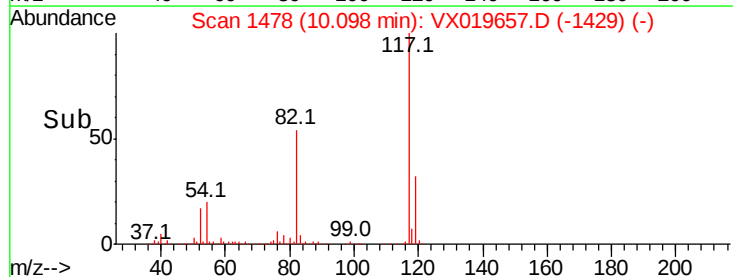
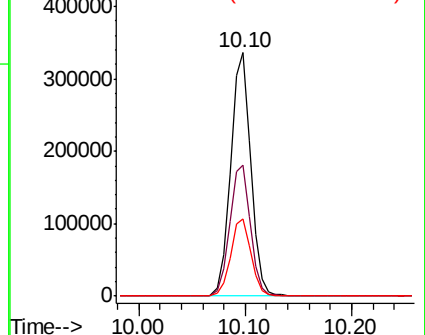
119 31.7 25.6 38.4

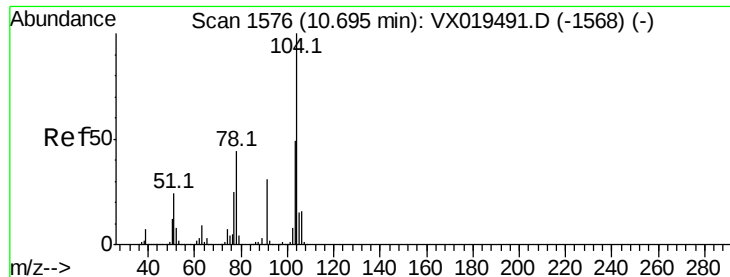


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

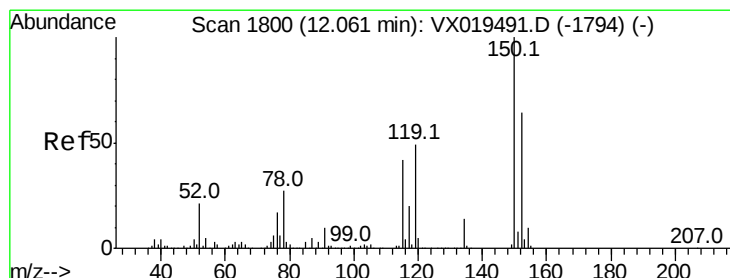
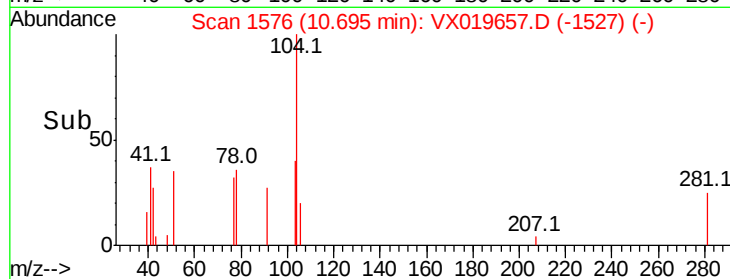
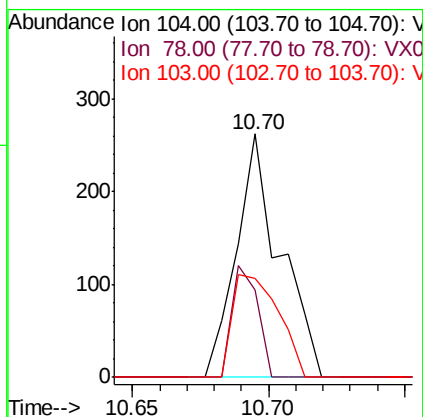
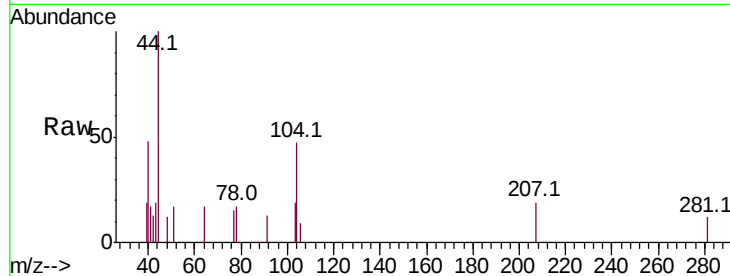




#70
Stvrene
Concen: 1.672 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019657.D
Acq: 25 Nov 2020 15:31

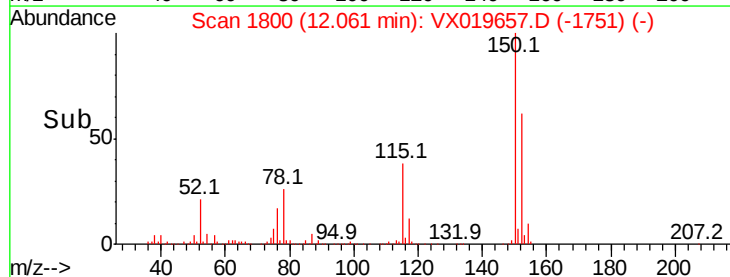
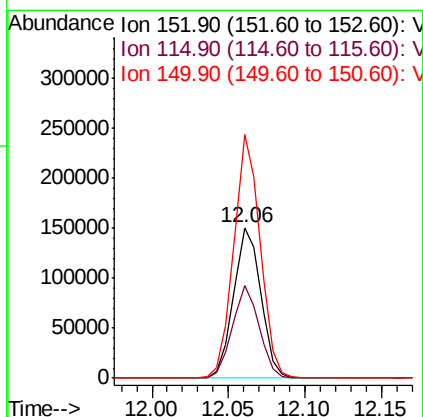
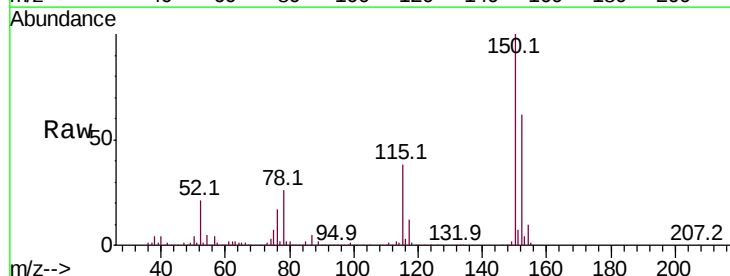
Instrument :
MSVOA_X
ClientSampleId :
30738DL

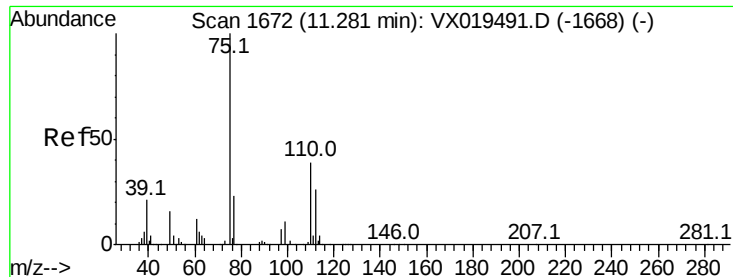
Tot Ion:104 Resp: 291
Ion Ratio Lower Upper
104 100
78 26.8 39.5 59.3#
103 44.3 43.6 65.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019657.D
Acq: 25 Nov 2020 15:31

Tgt Ion:152 Resp: 186510
Ion Ratio Lower Upper
152 100
115 60.5 41.8 125.4
150 156.1 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 24.393 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

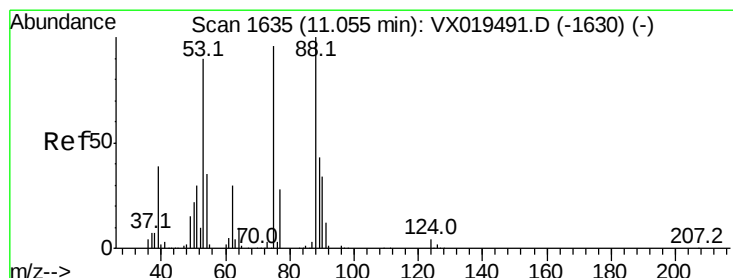
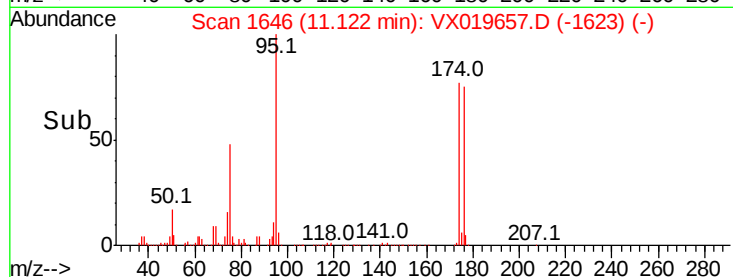
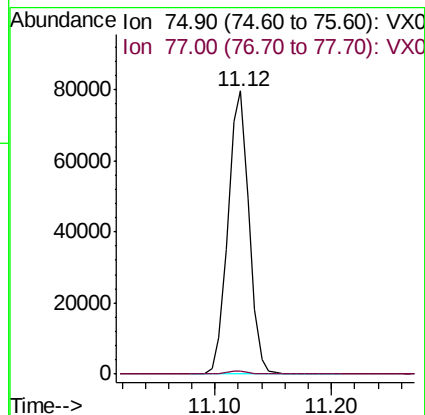
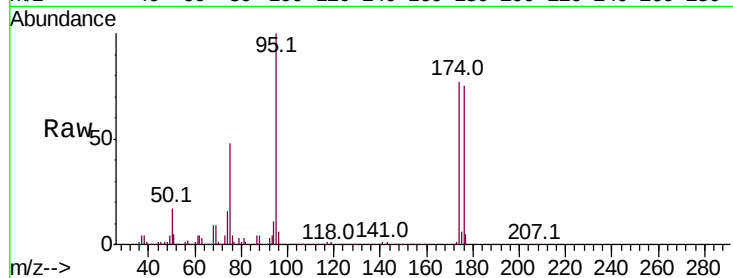
30738DL

Tot Ion: 75 Resp: 99285

Ion Ratio Lower Upper

75 100

77 1.2 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.538 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

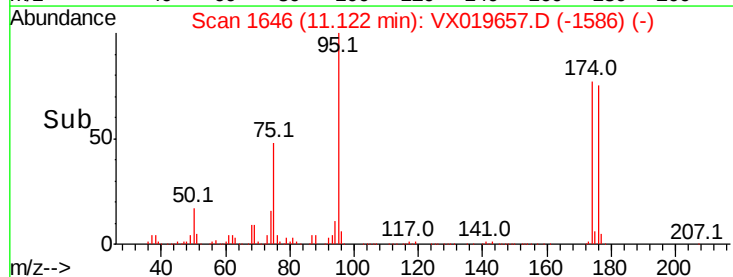
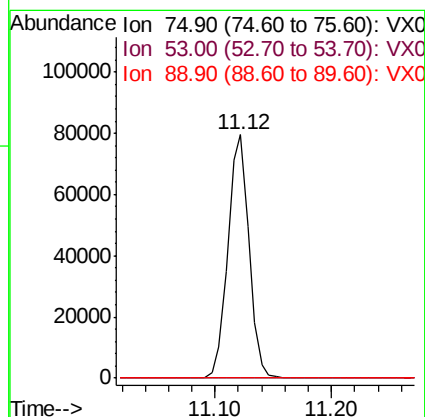
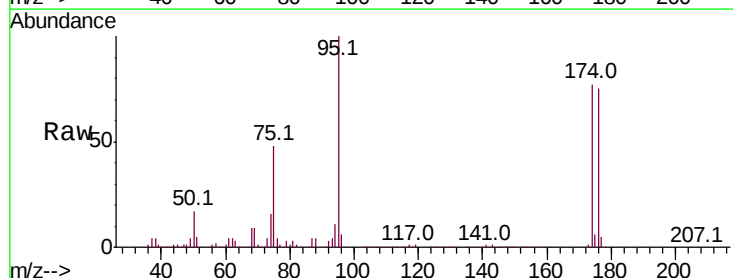
Tgt Ion: 75 Resp: 99285

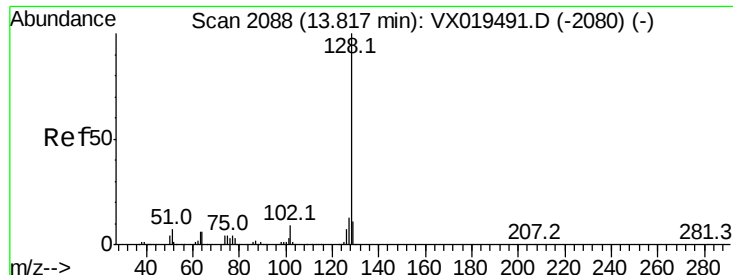
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95

Naphthalene

Concen: 2.255 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019657.D

Acq: 25 Nov 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

30738DL

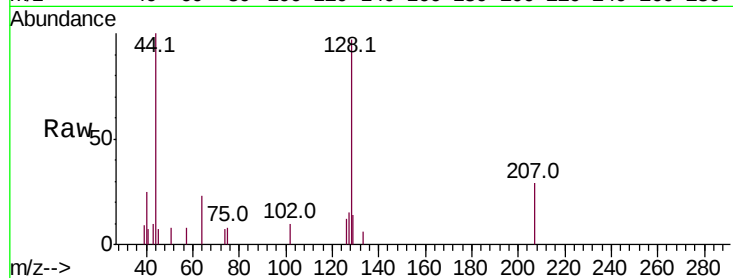
Tot Ion:128 Resp: 1110

Ion Ratio Lower Upper

128 100

127 11.1 10.3 15.5

129 10.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

