

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX112320\
 Data File : VX019553.D
 Acq On : 23 Nov 2020 16:15
 Operator : JC/MD
 Sample : L4798-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 56BR-20201118

Quant Time: Nov 24 00:32:49 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	5.63	168	301054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	492764	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	432279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	197407	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	181862	46.59	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.18%
35) Dibromofluoromethane	5.46	113	147264	47.61	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.22%
50) Toluene-d8	8.70	98	580732	48.32	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.64%
62) 4-Bromofluorobenzene	11.12	95	206865	47.84	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	95.68%

Target Compounds

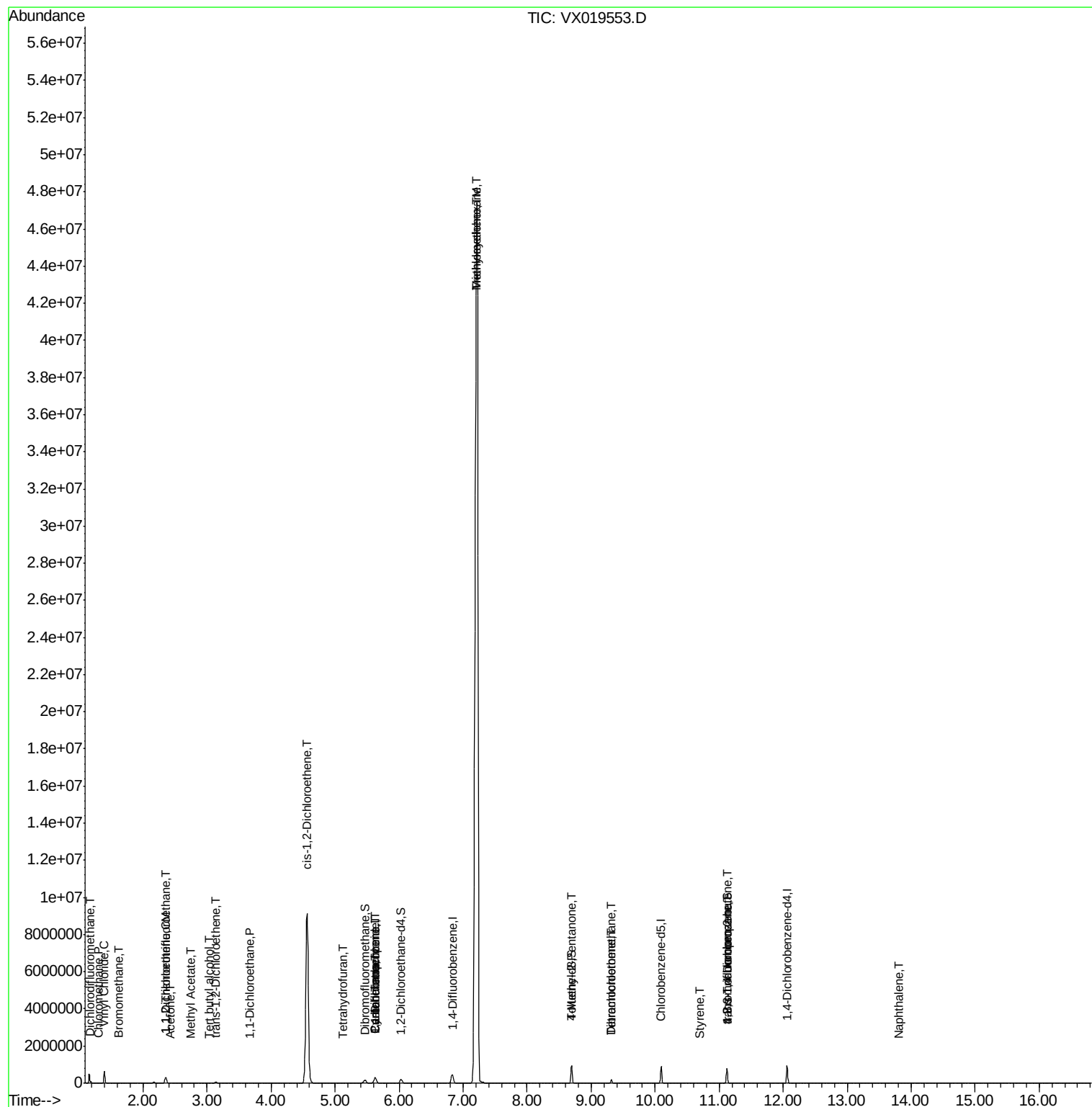
						Qvalue
2) Dichlorodifluoromethane	1.18	85	61909	21.147	ug/l	98
3) Chloromethane	1.31	50	877	0.261	ug/l	100
4) Vinyl Chloride	1.39	62	380623	105.249	ug/l	99
5) Bromomethane	1.62	94	726	0.530	ug/l #	76
9) 1,1,2-Trichlorotrifluoroet	2.36	101	97795	33.583	ug/l	99
11) Tert butyl alcohol	3.04	59	493	0.667	ug/l #	73
12) 1,1-Dichloroethene	2.34	96	33763	11.296	ug/l	95
16) Acetone	2.43	43	1716	1.137	ug/l #	88
18) Methyl Acetate	2.74	43	101	0.661	ug/l	96
21) trans-1,2-Dichloroethene	3.14	96	20304	5.996	ug/l	96
24) 1,1-Dichloroethane	3.67	63	1229	0.207	ug/l #	81
27) cis-1,2-Dichloroethene	4.56	96	6208653	1596.122	ug/l	88
29) Tetrahydrofuran	5.12	42	2236	1.545	ug/l	91
31) Cyclohexane	5.62	56	5977	1.177	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22888	4.954	ug/l #	49
38) Carbon Tetrachloride	5.62	117	29625	6.625	ug/l #	16
39) Methylcyclohexane	7.21	83	359016	66.745	ug/l #	1
44) Trichloroethene	7.22	130	24625419	6623.402	ug/l	99
51) 4-Methyl-2-Pentanone	8.70	43	2285	0.537	ug/l #	1
60) Dibromochloromethane	9.32	129	31759	9.169	ug/l #	10
64) Tetrachloroethene	9.32	164	34633	10.192	ug/l	97
70) Styrene	10.70	104	158	1.661	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	101426	23.543	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	101426	62.438	ug/l #	12
95) Naphthalene	13.81	128	304	2.198	ug/l #	69

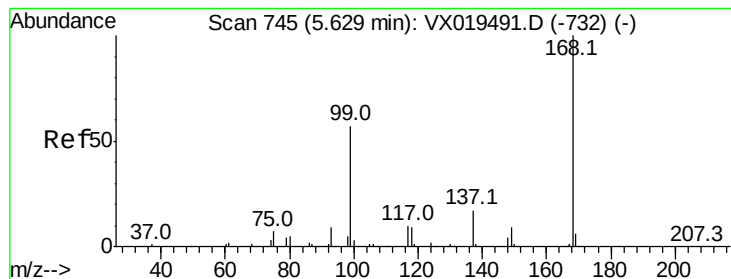
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

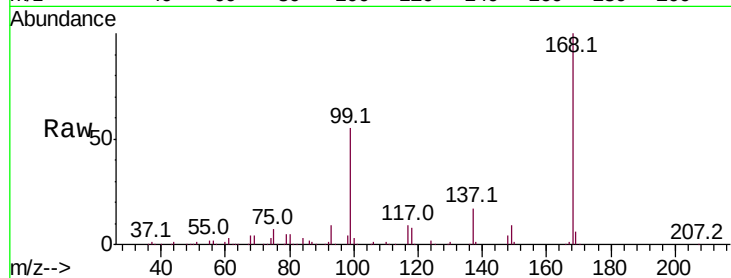
56BR-20201118

Tot Ion:168 Resp: 301054

Ion Ratio Lower Upper

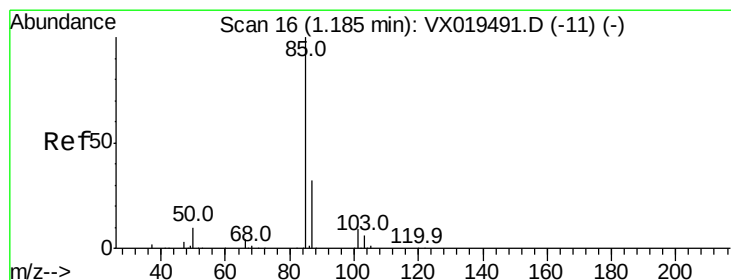
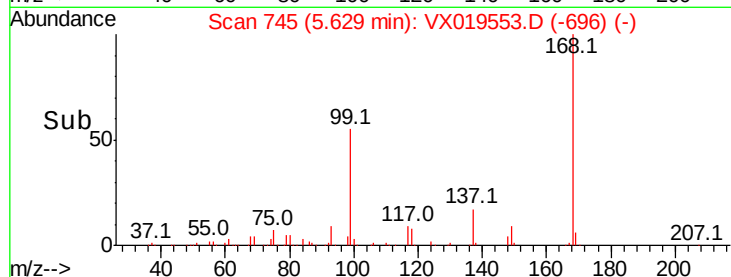
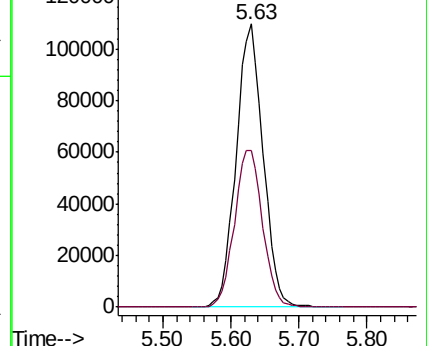
168 100

99 55.4 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: 21.147 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019553.D

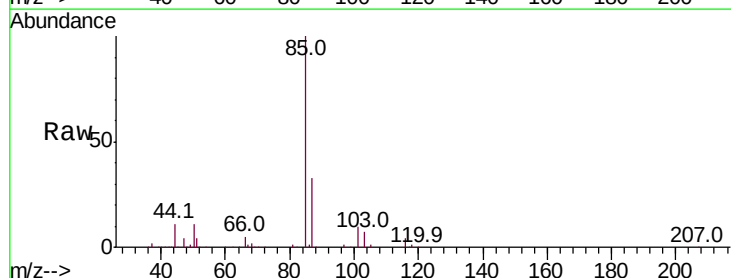
Acq: 23 Nov 2020 16:15

Tgt Ion: 85 Resp: 61909

Ion Ratio Lower Upper

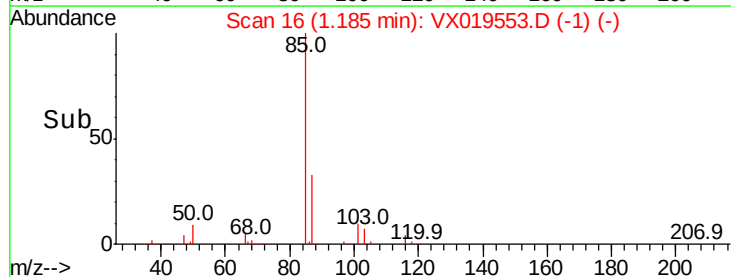
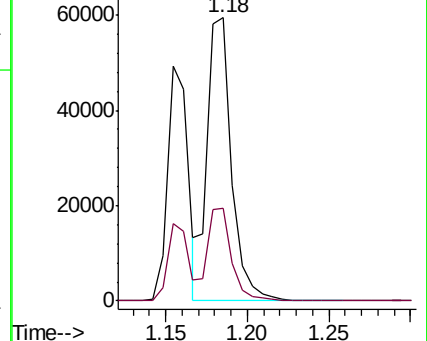
85 100

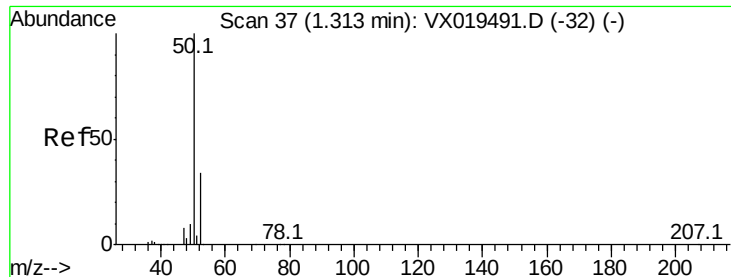
87 32.9 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.261 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

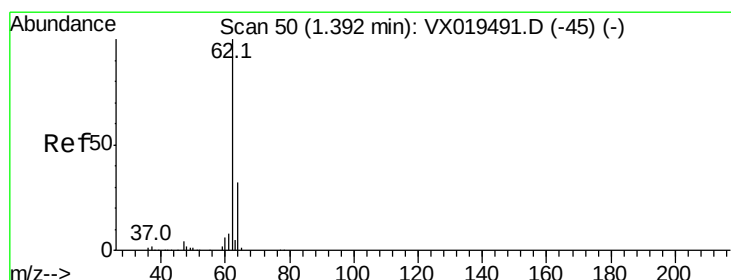
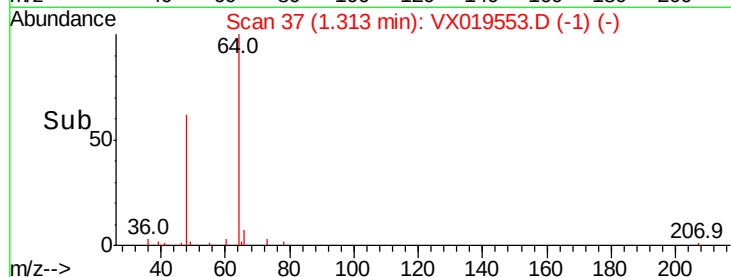
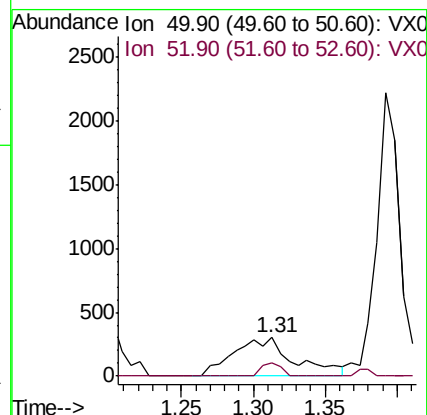
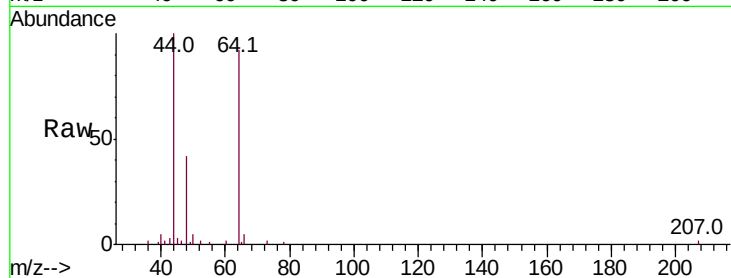
56BR-20201118

Tot Ion: 50 Resp: 877

Ion Ratio Lower Upper

50 100

52 34.0 27.0 40.6



#4

Vinyl Chloride

Concen: 105.249 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019553.D

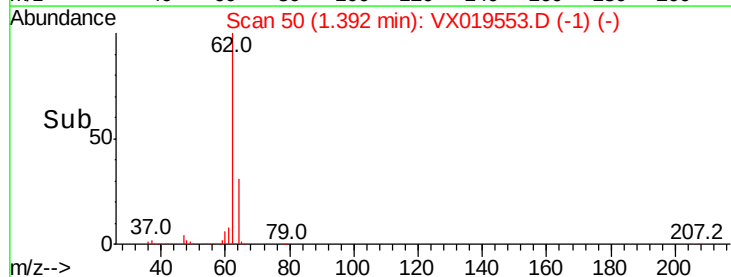
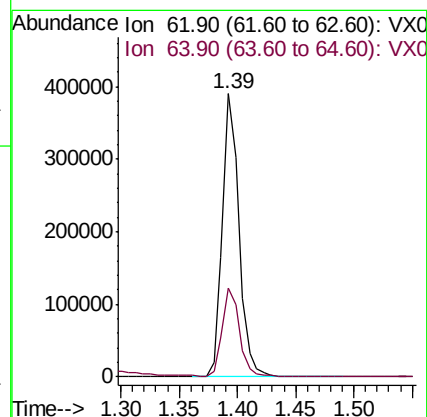
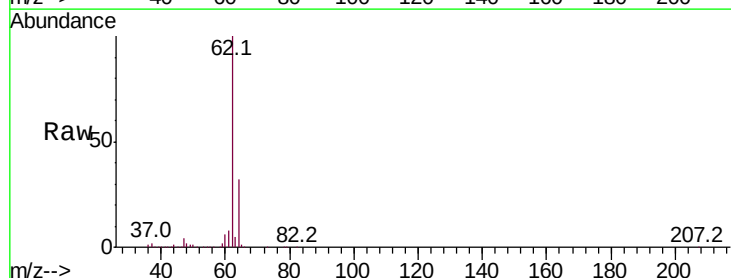
Acq: 23 Nov 2020 16:15

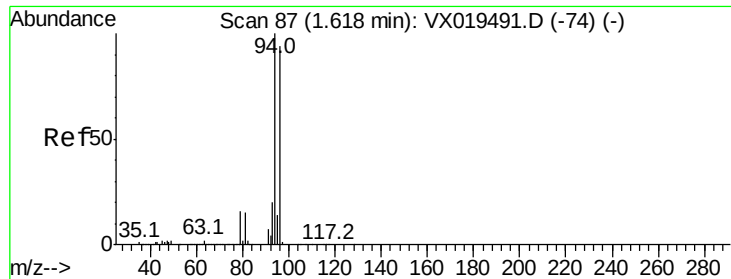
Tgt Ion: 62 Resp: 380623

Ion Ratio Lower Upper

62 100

64 31.3 25.4 38.2





#5

Bromomethane

Concen: 0.530 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

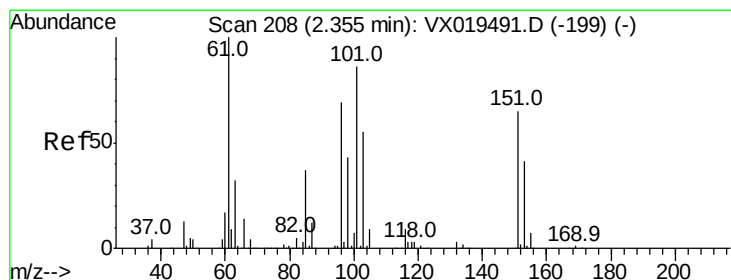
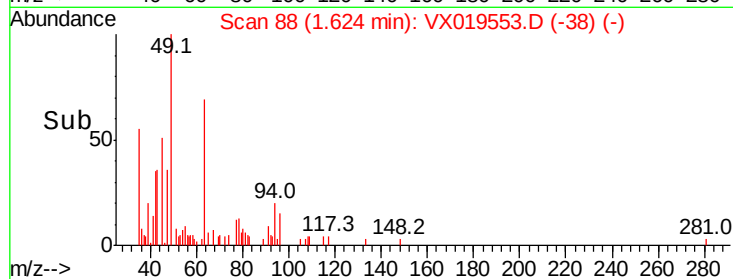
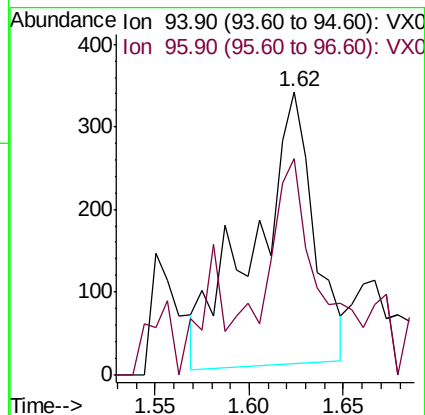
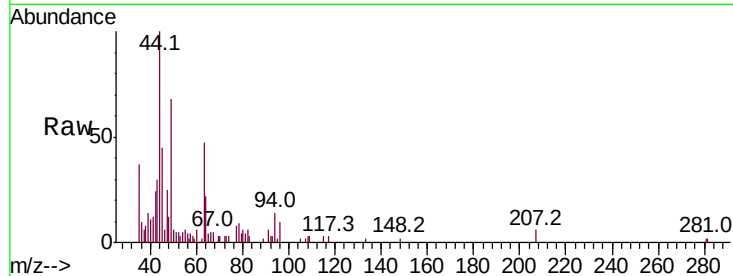
56BR-20201118

Tot Ion: 94 Resp: 726

Ion Ratio Lower Upper

94 100

96 71.4 75.6 113.4#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 33.583 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

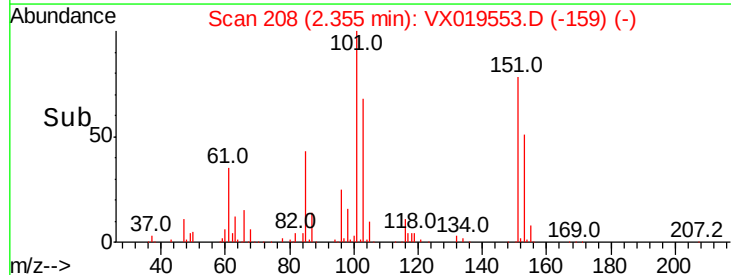
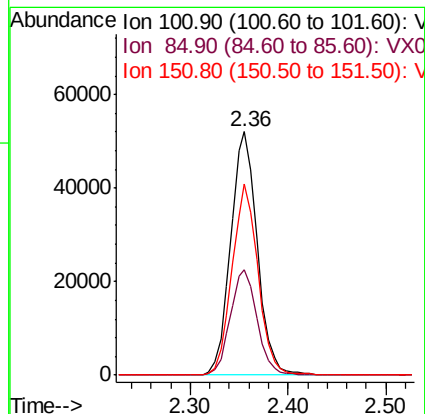
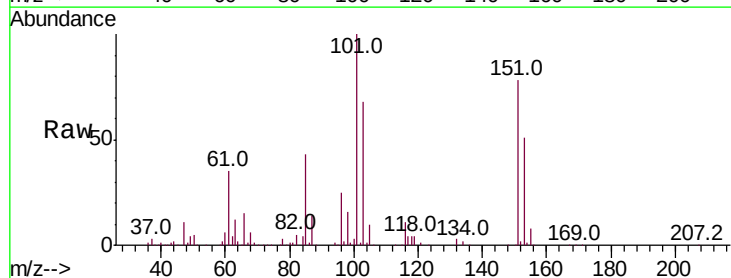
Tgt Ion:101 Resp: 97795

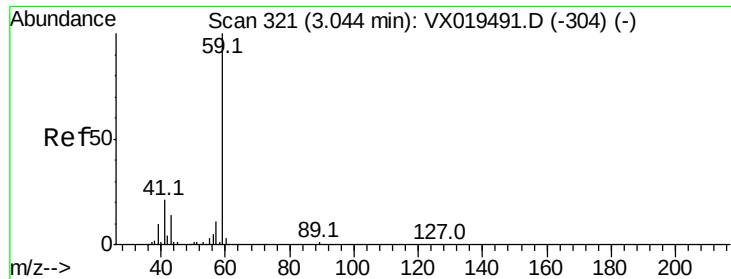
Ion Ratio Lower Upper

101 100

85 43.6 33.9 50.9

151 77.0 60.9 91.3



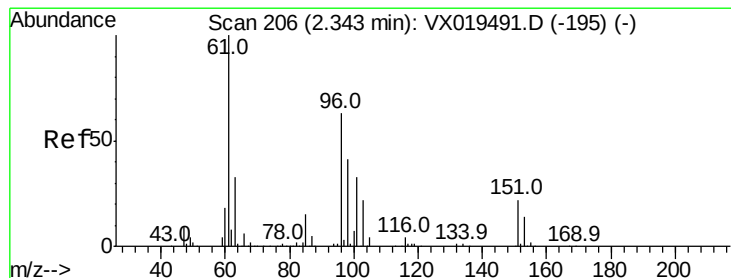
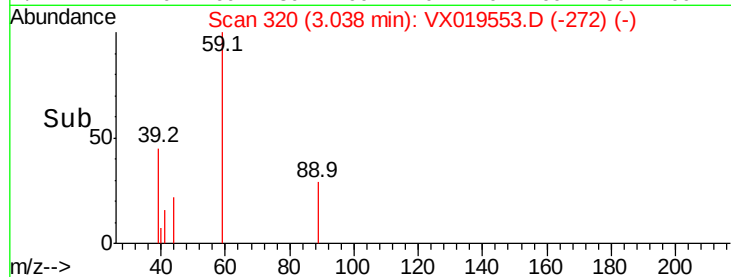
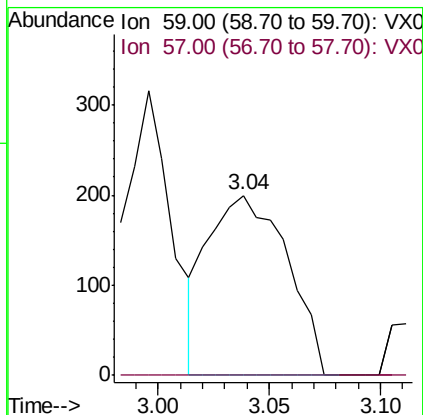
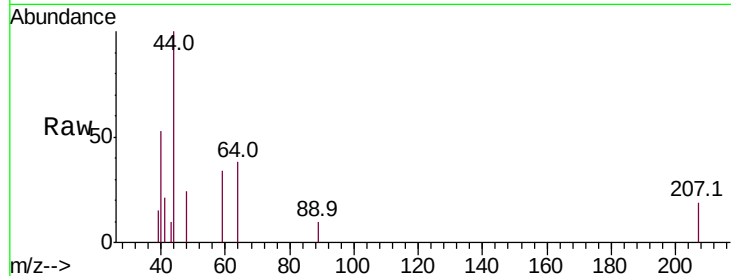


#11

Tert butyl alcohol
Concen: 0.667 ug/l
RT: 3.04 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

Instrument :
MSVOA_X
ClientSampleId :
56BR-20201118

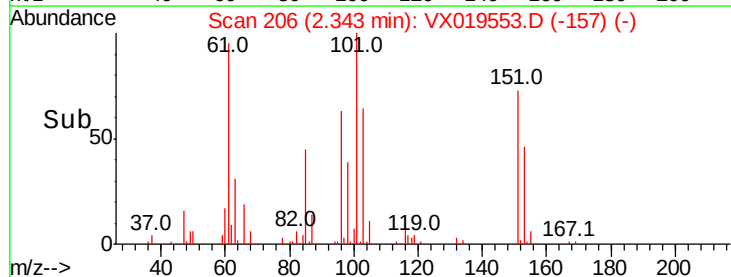
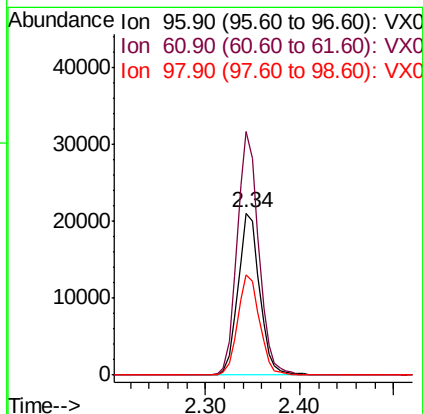
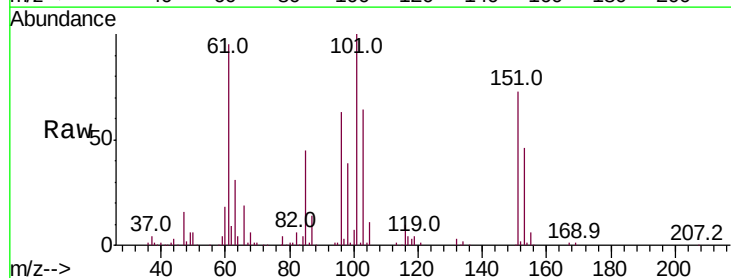
Tot Ion: 59 Resp: 493
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

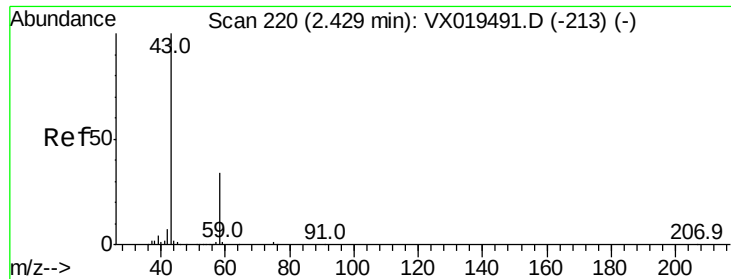


#12

1,1-Dichloroethene
Concen: 11.296 ug/l
RT: 2.34 min Scan# 206
Delta R.T. 0.00 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

Tgt Ion: 96 Resp: 33763
Ion Ratio Lower Upper
96 100
61 150.0 126.0 189.0
98 62.0 52.0 78.0

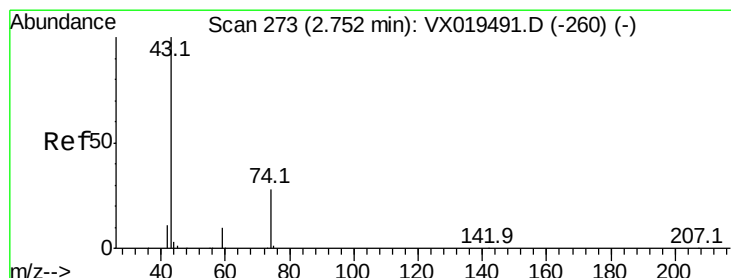
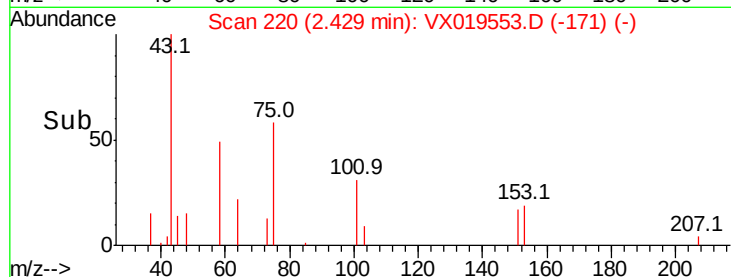
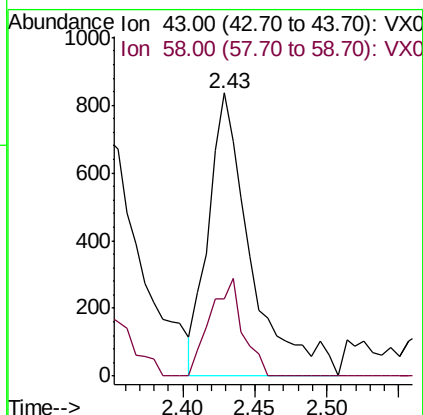
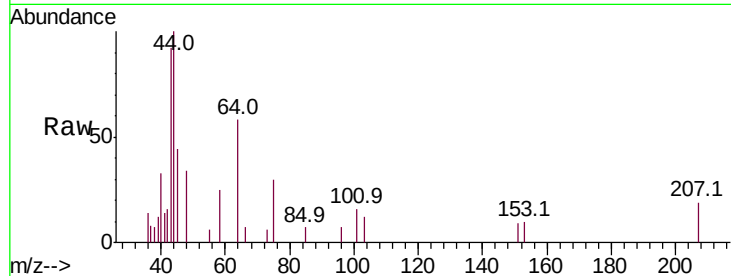




#16
Acetone
Concen: 1.137 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.00 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

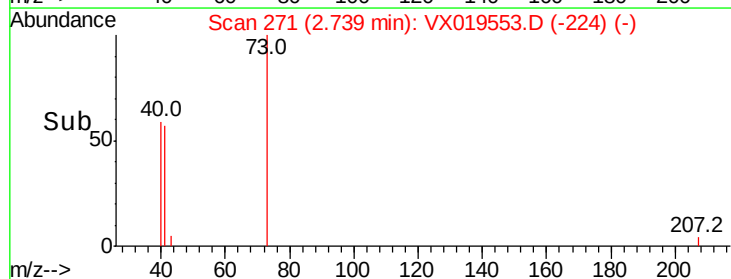
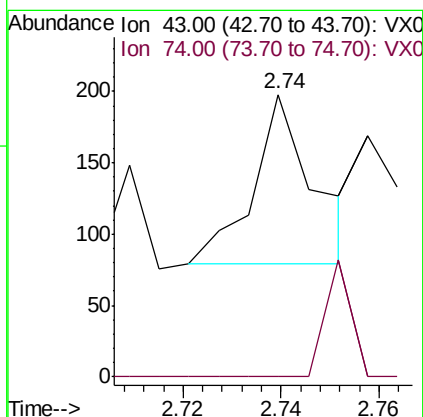
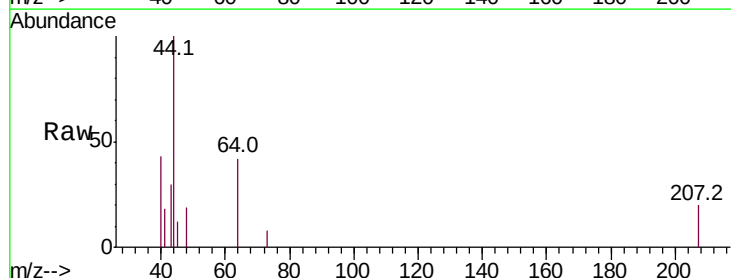
Instrument :
MSVOA_X
ClientSampleId :
56BR-20201118

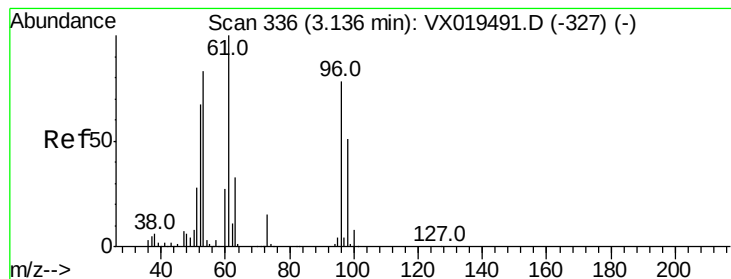
Tot Ion: 43 Resp: 1716
Ion Ratio Lower Upper
43 100
58 27.2 27.4 41.2#



#18
Methyl Acetate
Concen: 0.661 ug/l
RT: 2.74 min Scan# 271
Delta R.T. -0.01 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

Tgt Ion: 43 Resp: 101
Ion Ratio Lower Upper
43 100
74 29.7 22.2 33.4





#21

trans-1,2-Dichloroethene

Concen: 5.996 ug/l

RT: 3.14 min Scan# 336

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

56BR-20201118

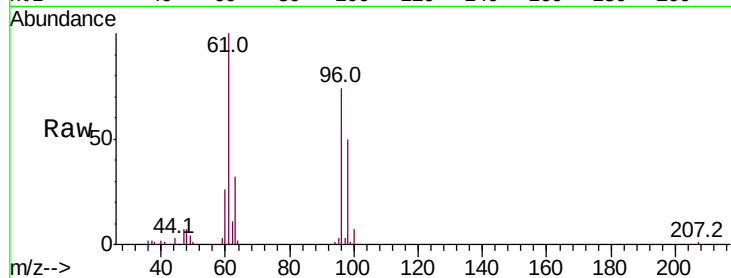
Tot Ion: 96 Resp: 20304

Ion Ratio Lower Upper

96 100

61 134.7 102.9 154.3

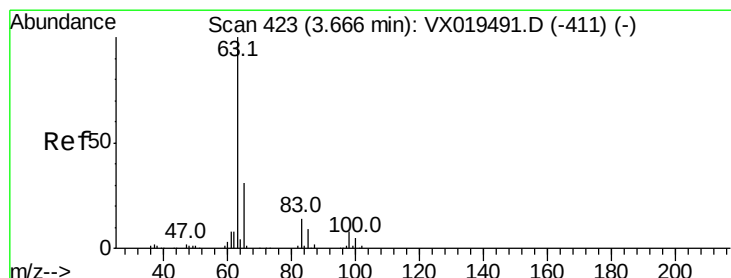
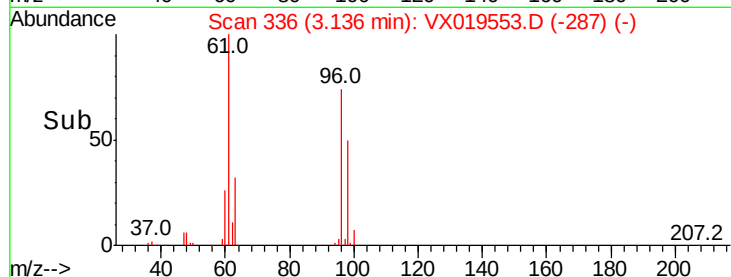
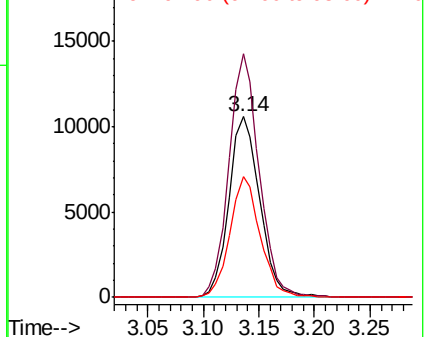
98 66.7 52.1 78.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#24

1,1-Dichloroethane

Concen: 0.207 ug/l

RT: 3.67 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

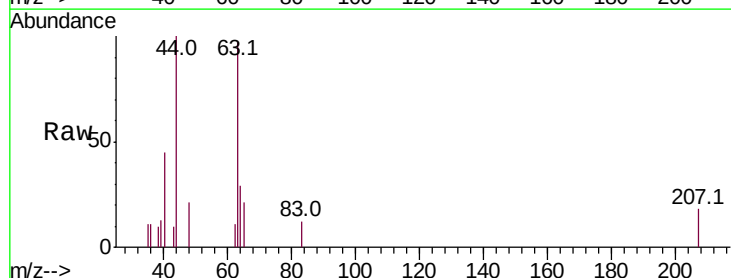
Tgt Ion: 63 Resp: 1229

Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.7#

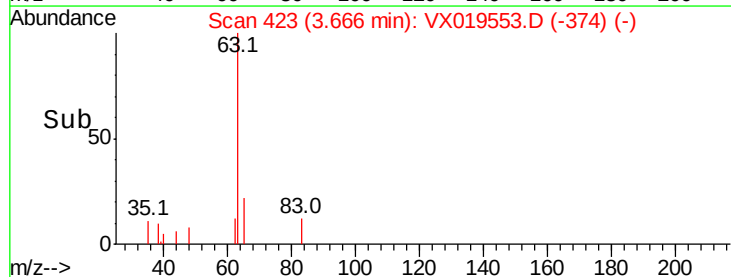
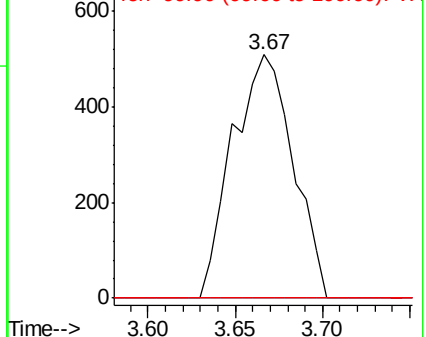
100 0.0 2.4 7.1#

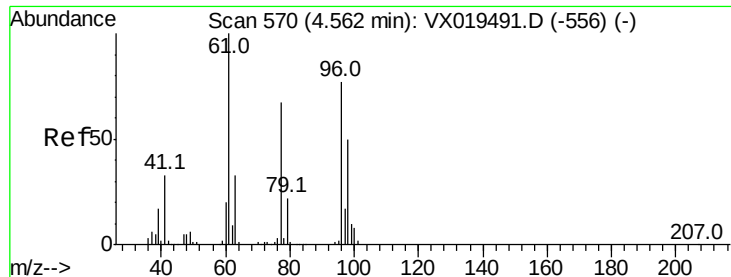


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



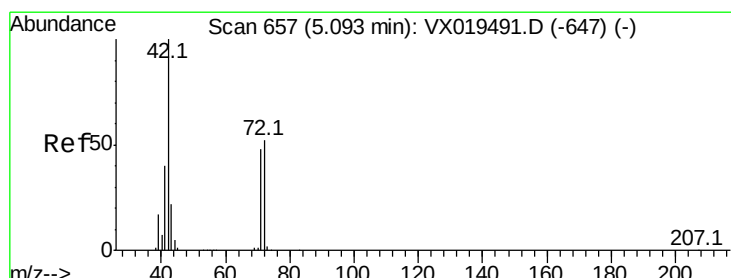
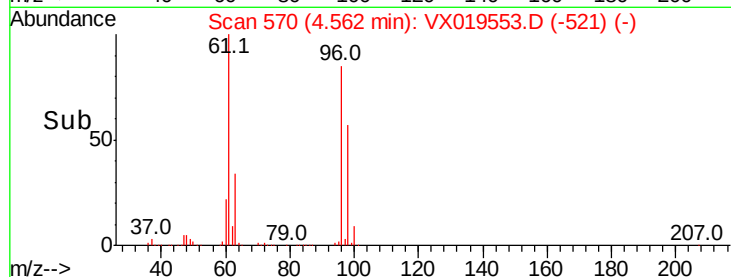
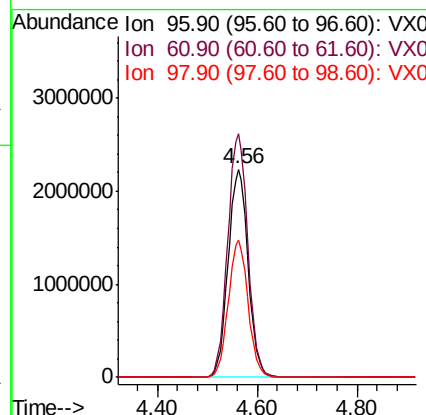
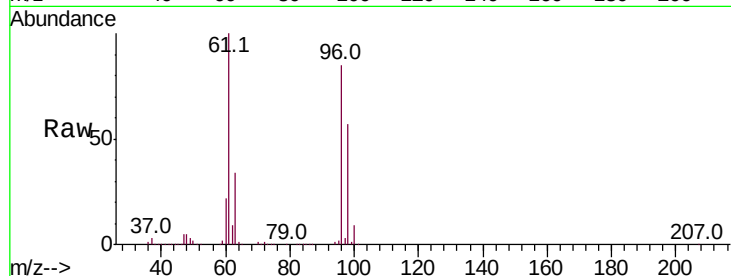


#27
 cis-1,2-Dichloroethene
 Concen: 1596.122 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VX019553.D
 Acq: 23 Nov 2020 16:15

Instrument :
 MSVOA_X
 ClientSampleId :
 56BR-20201118

Tot Ion: 96 Resp: 6208653

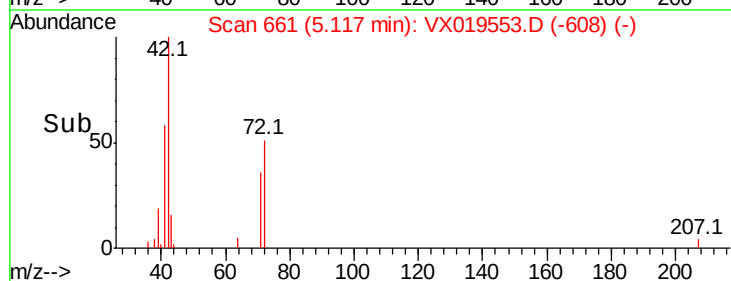
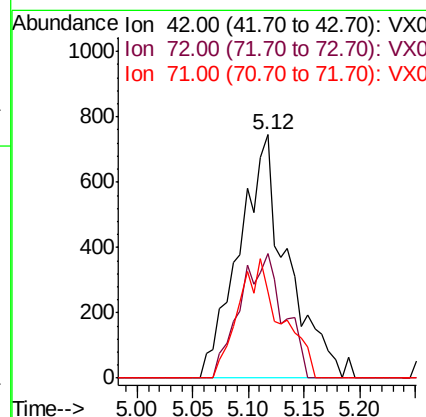
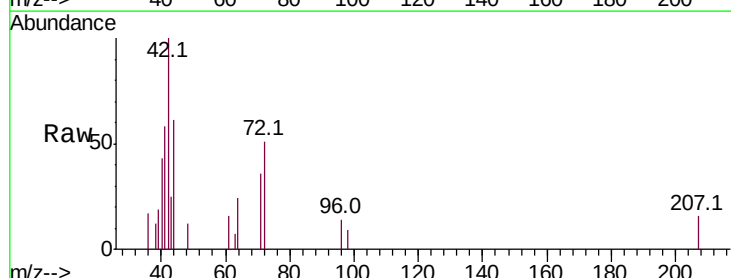
Ion	Ratio	Lower	Upper
96	100		
61	118.0	0.0	279.2
98	65.1	0.0	129.8

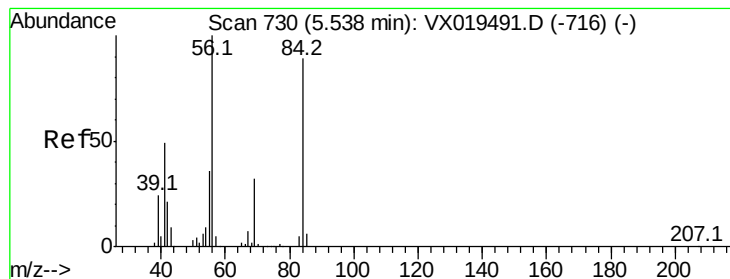


#29
 Tetrahydrofuran
 Concen: 1.545 ug/l
 RT: 5.12 min Scan# 661
 Delta R.T. 0.02 min
 Lab File: VX019553.D
 Acq: 23 Nov 2020 16:15

Tgt Ion: 42 Resp: 2236

Ion	Ratio	Lower	Upper
42	100		
72	46.3	42.6	63.8
71	43.2	39.0	58.6





#31

Cyclohexane

Concen: 1.177 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.09 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

56BR-20201118

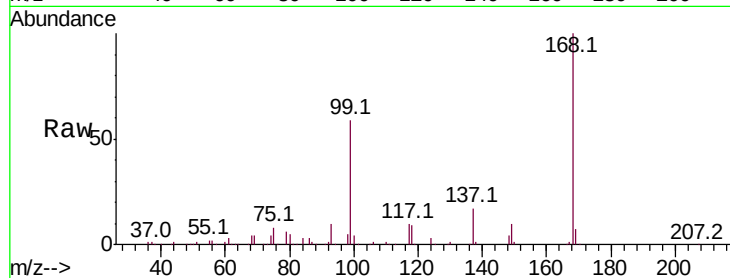
Tot Ion: 56 Resp: 5977

Ion Ratio Lower Upper

56 100

69 200.8 25.5 38.3#

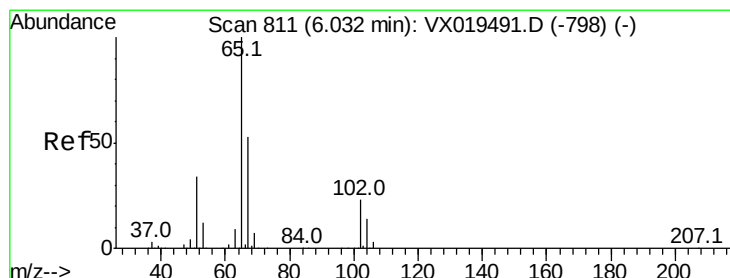
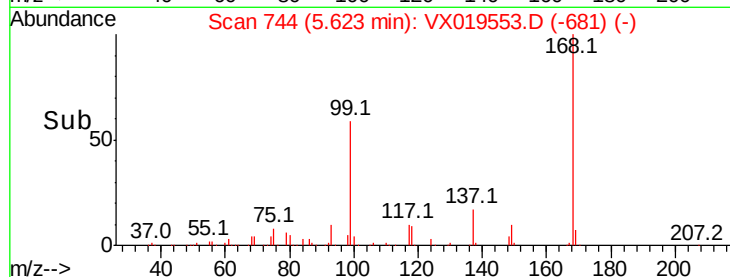
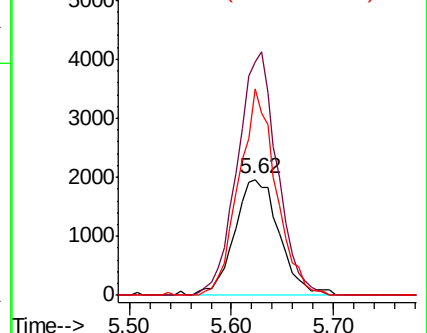
84 178.2 71.1 106.7#



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: 46.590 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019553.D

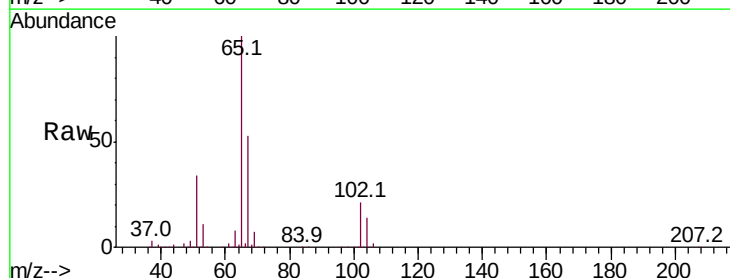
Acq: 23 Nov 2020 16:15

Tgt Ion: 65 Resp: 181862

Ion Ratio Lower Upper

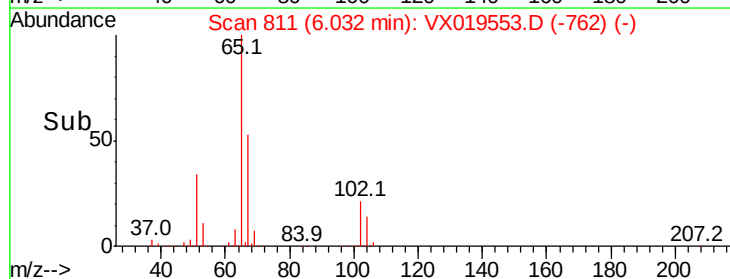
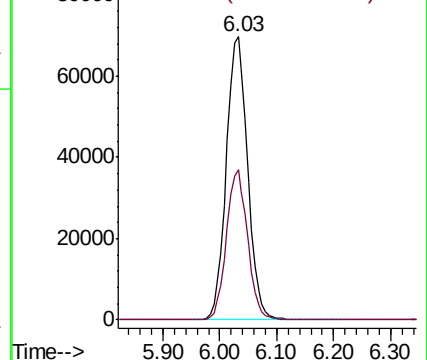
65 100

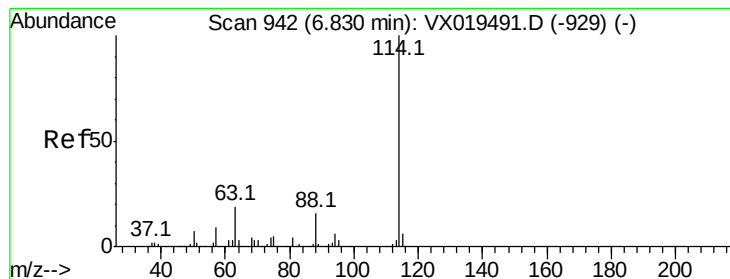
67 52.4 0.0 105.0



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. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

56BR-20201118

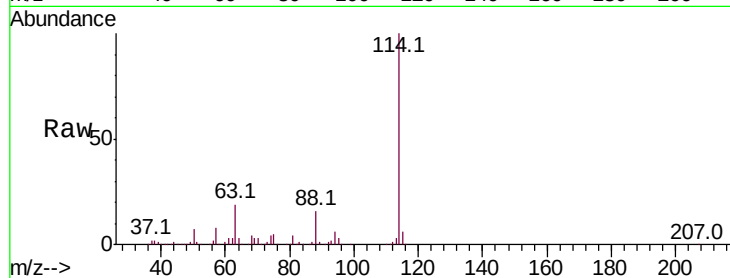
Tot Ion:114 Resp: 492764

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.8

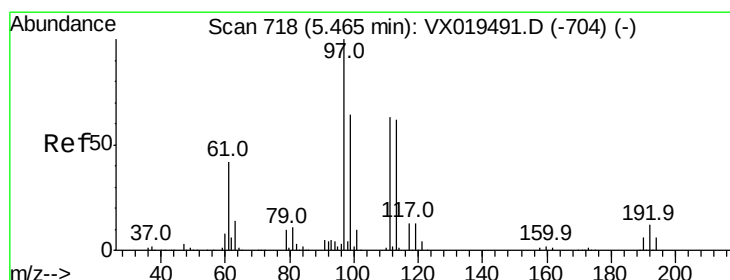
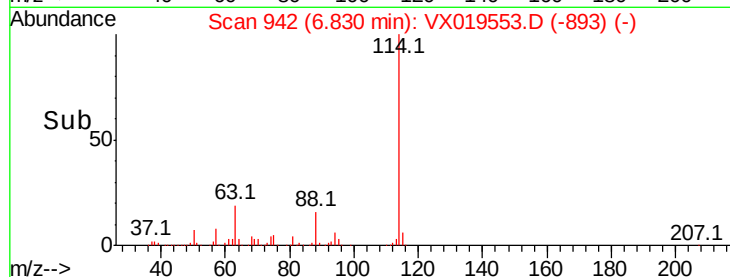
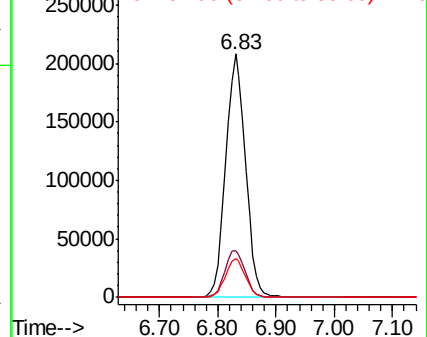
88 16.0 0.0 31.6



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



#35

Dibromofluoromethane

Concen: 47.611 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

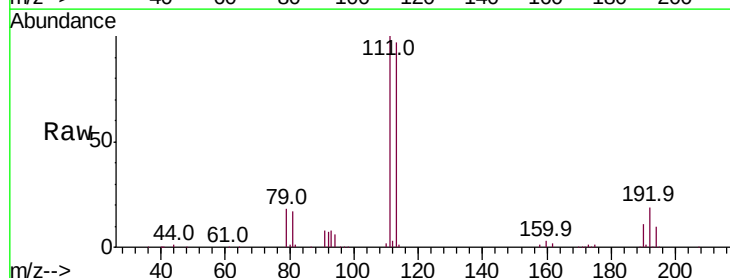
Tgt Ion:113 Resp: 147264

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

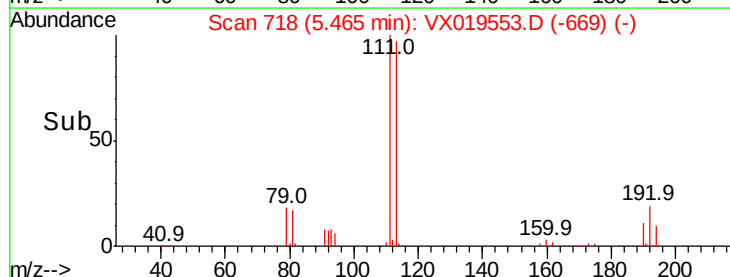
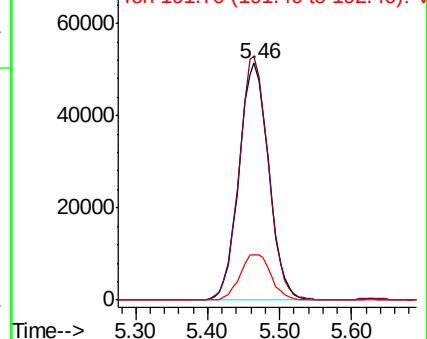
192 20.1 16.2 24.2

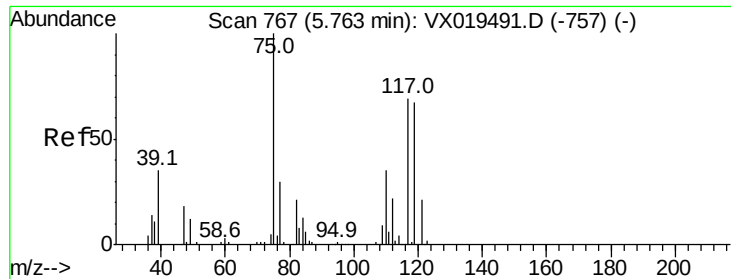


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.954 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

56BR-20201118

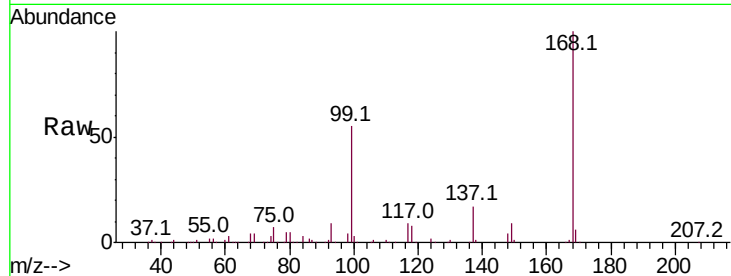
Tot Ion: 75 Resp: 22888

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.3#

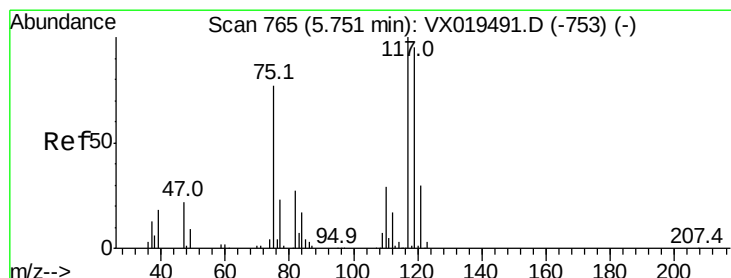
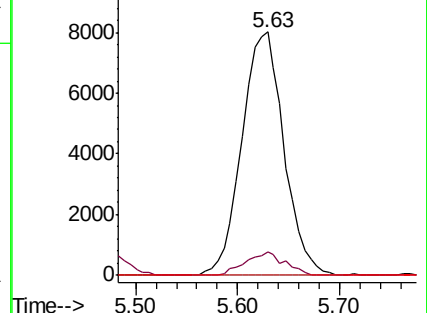
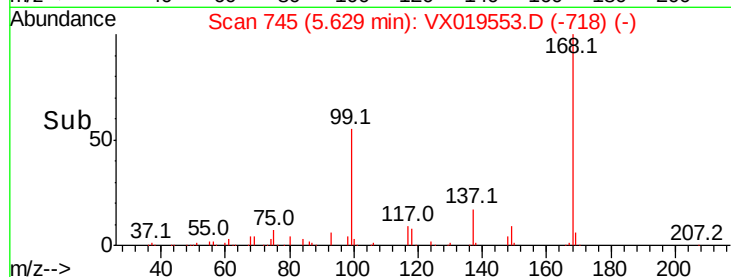
77 0.0 24.2 36.4#



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: 6.625 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

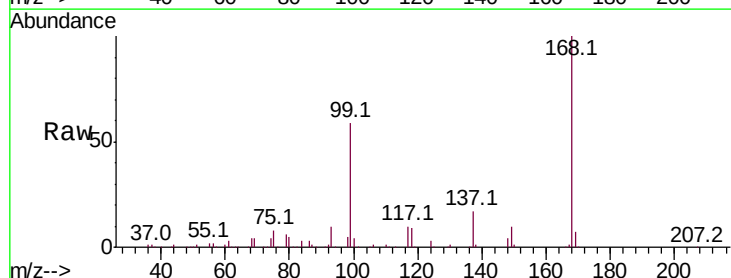
Tgt Ion: 117 Resp: 29625

Ion Ratio Lower Upper

117 100

119 4.4 75.9 113.9#

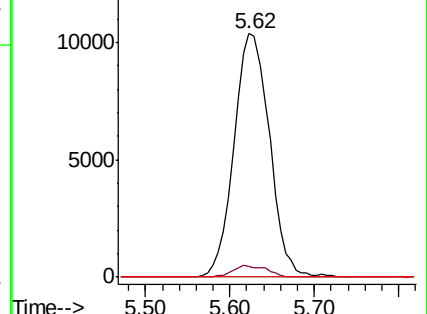
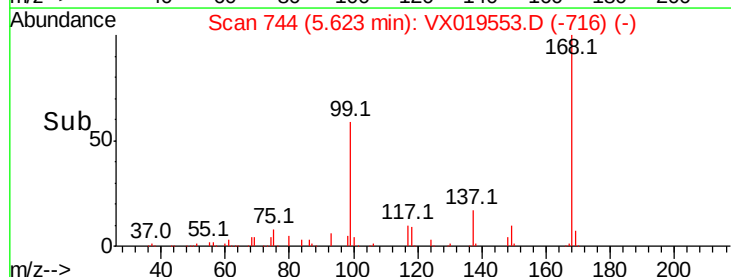
121 0.0 24.0 36.0#

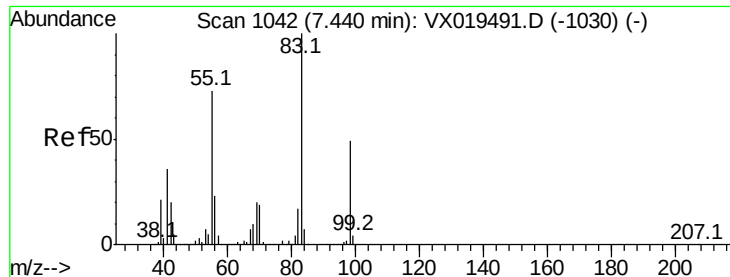


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 66.745 ug/l

RT: 7.21 min Scan# 1005

Delta R.T. -0.23 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

56BR-20201118

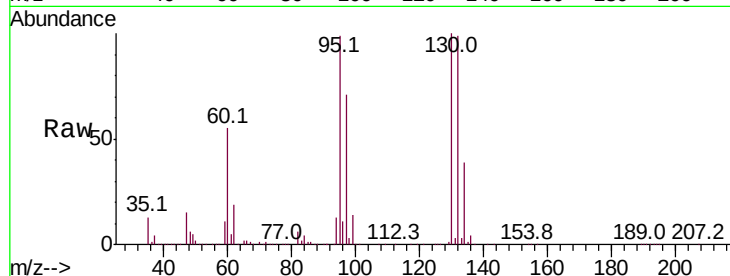
Tot Ion: 83 Resp: 359016

Ion Ratio Lower Upper

83 100

55 0.2 58.3 87.5#

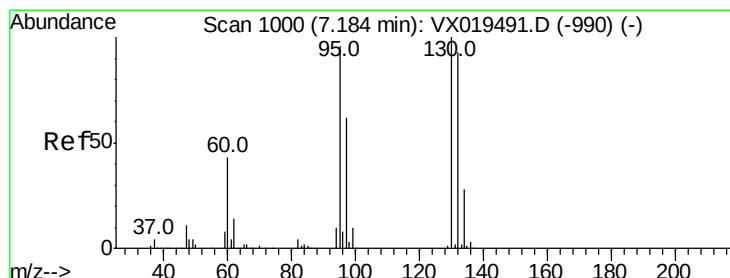
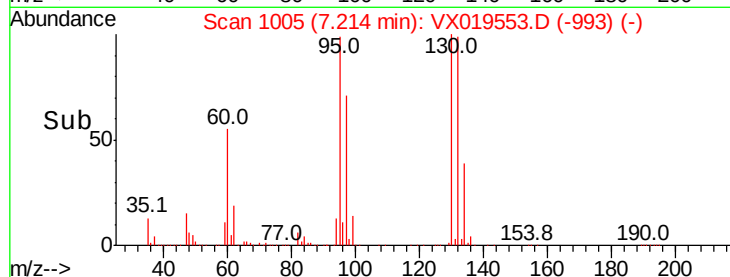
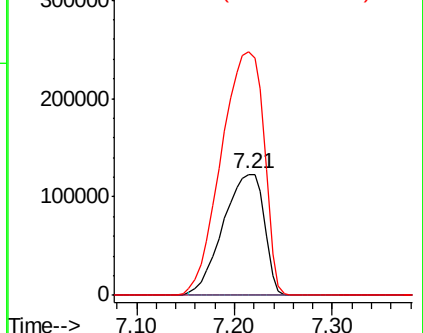
98 201.2 38.9 58.3#



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: 6623.402 ug/l

RT: 7.22 min Scan# 1006

Delta R.T. 0.04 min

Lab File: VX019553.D

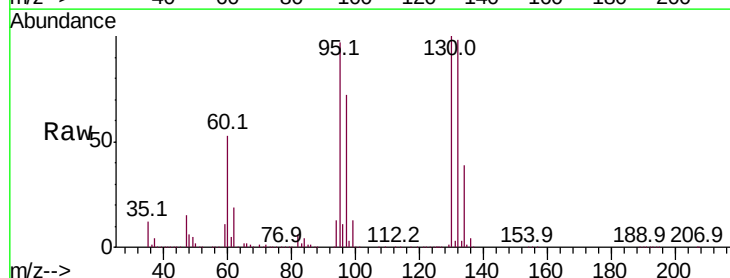
Acq: 23 Nov 2020 16:15

Tgt Ion:130 Resp:24625419

Ion Ratio Lower Upper

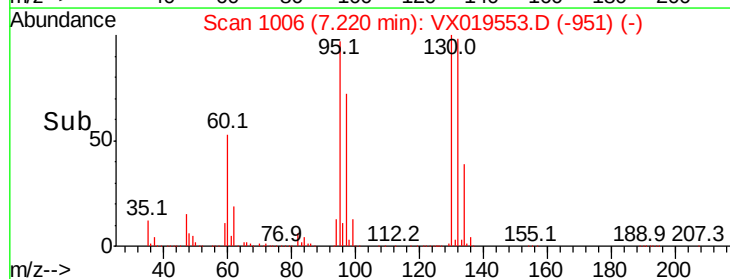
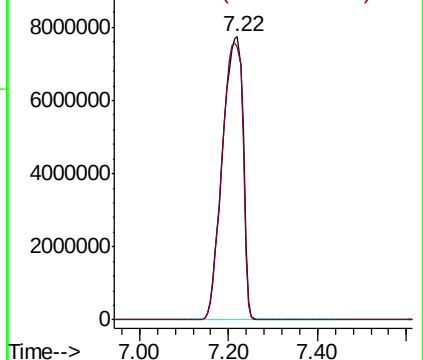
130 100

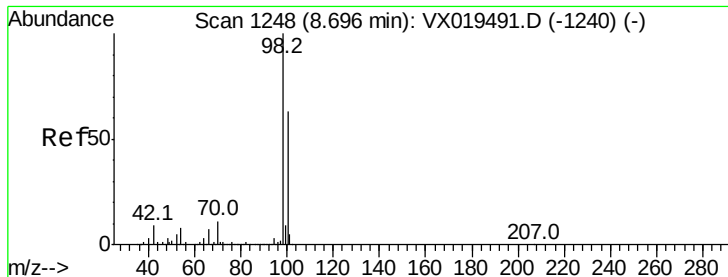
95 96.5 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 48.316 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

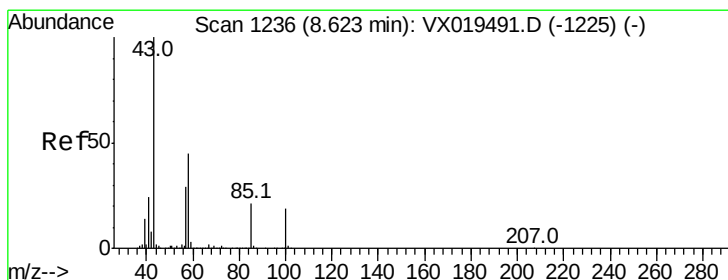
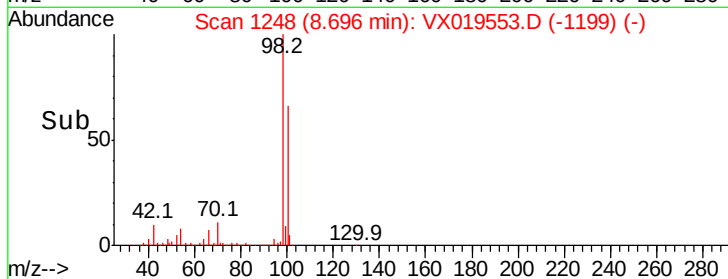
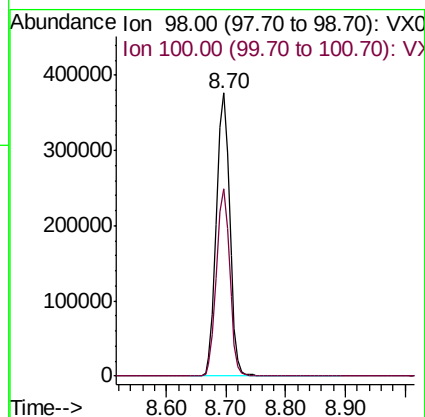
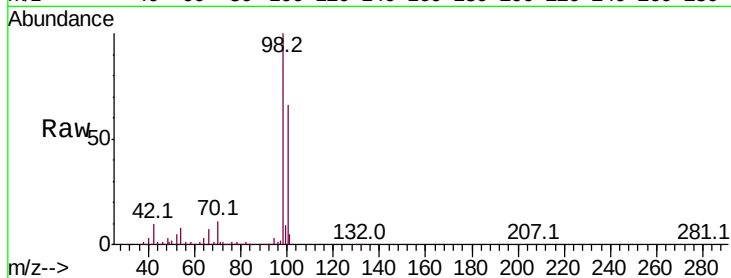
56BR-20201118

Tot Ion: 98 Resp: 580732

Ion Ratio Lower Upper

98 100

100 65.8 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 0.537 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX019553.D

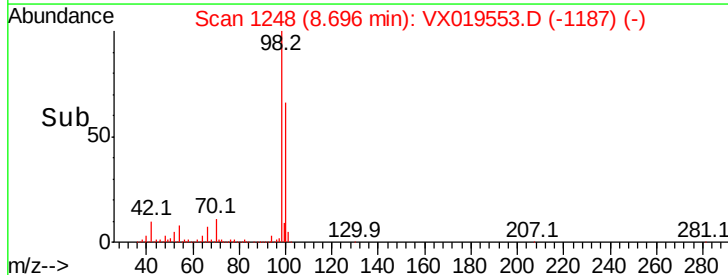
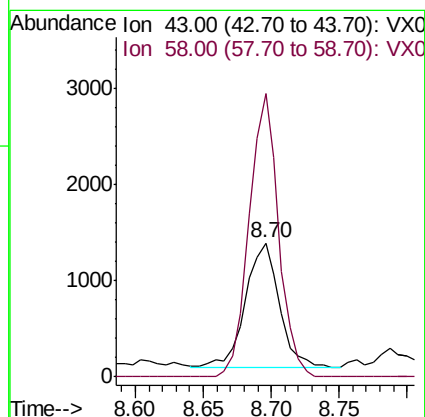
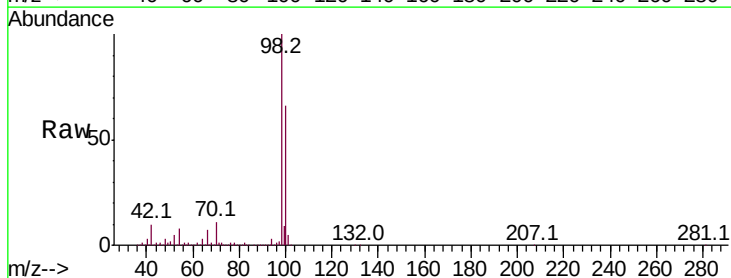
Acq: 23 Nov 2020 16:15

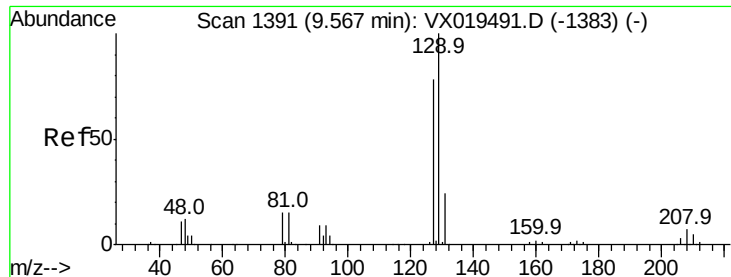
Tgt Ion: 43 Resp: 2285

Ion Ratio Lower Upper

43 100

58 195.2 35.1 52.7#





#60

Dibromochloromethane

Concen: 9.169 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

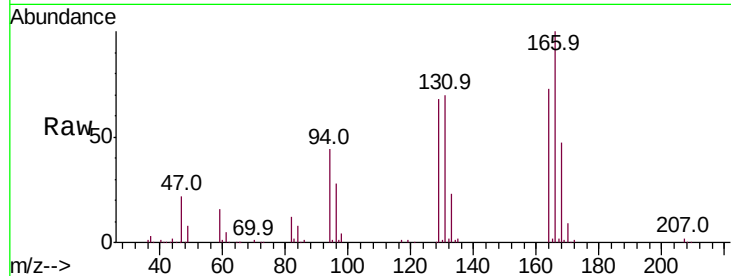
56BR-20201118

Tot Ion:129 Resp: 31759

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

25000

20000

15000

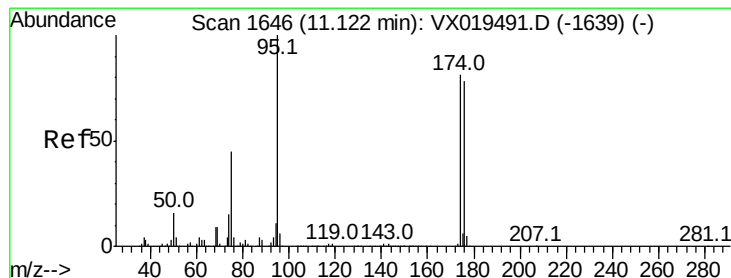
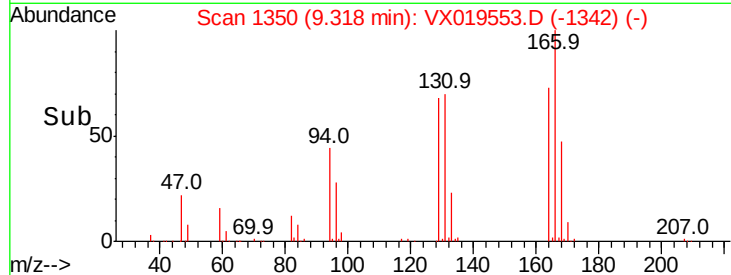
10000

5000

0

9.25 9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 47.837 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

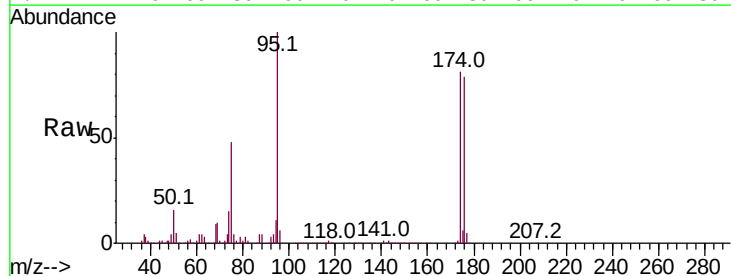
Tgt Ion: 95 Resp: 206865

Ion Ratio Lower Upper

95 100

174 77.4 0.0 156.2

176 75.3 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

200000

150000

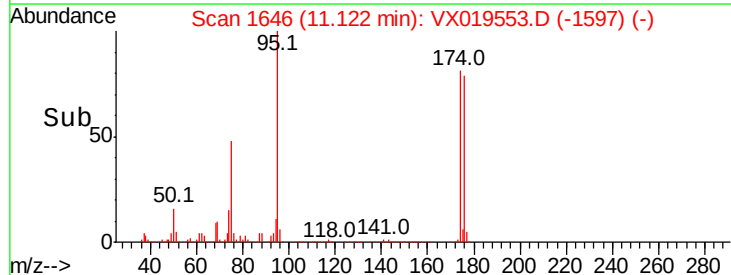
100000

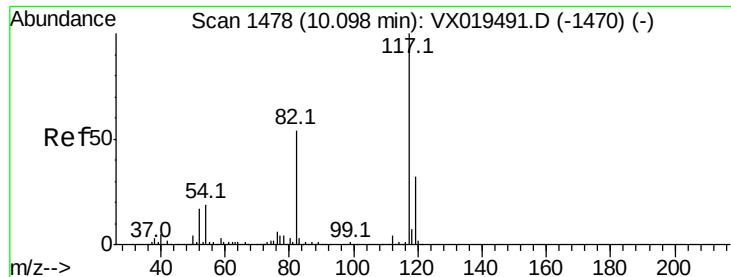
50000

0

11.10 11.20

Time-->

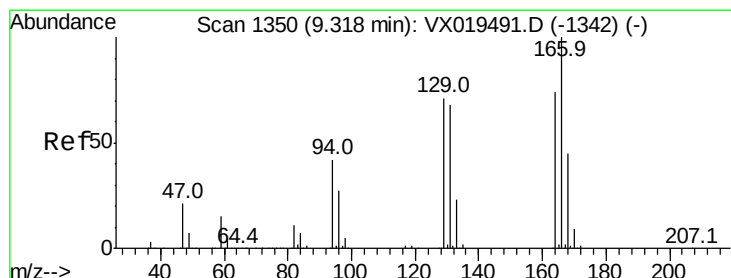
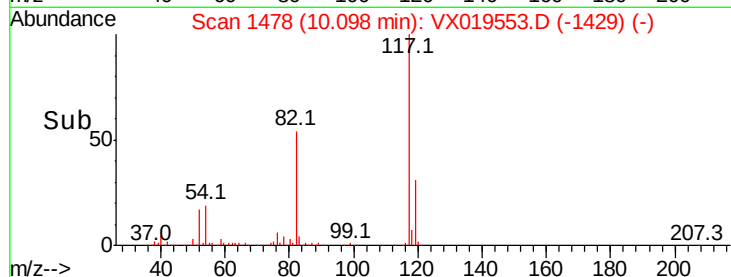
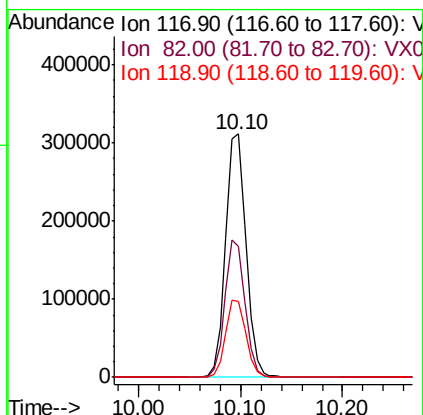
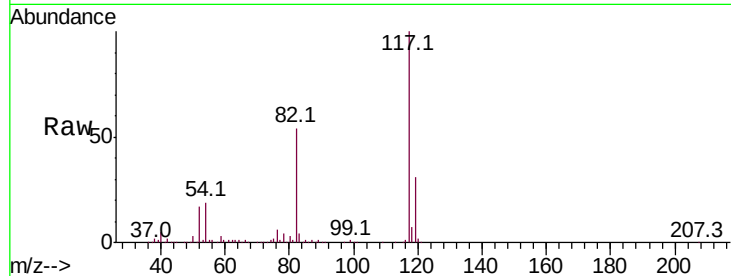




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

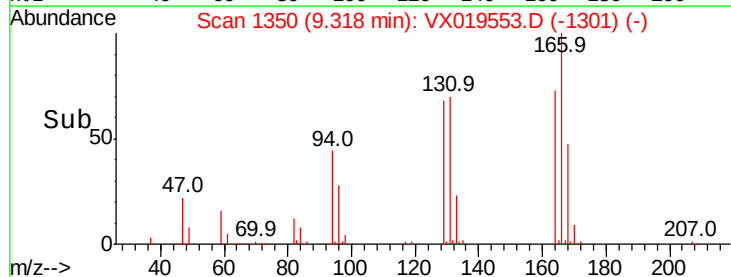
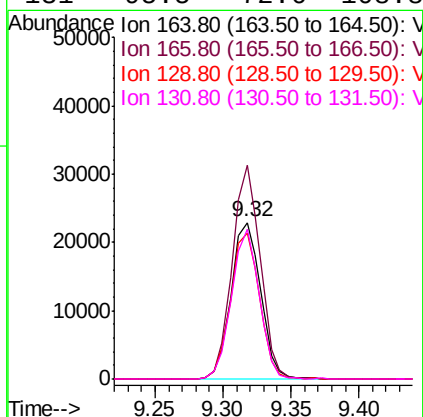
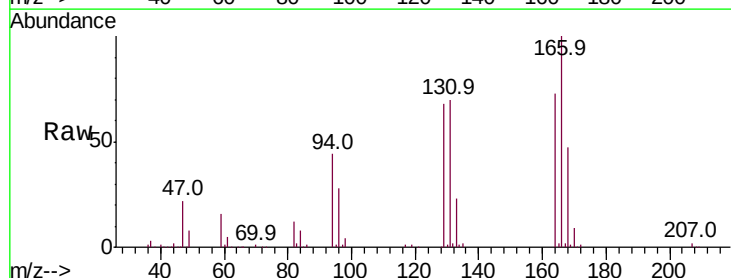
Instrument :
MSVOA_X
ClientSampleId :
56BR-20201118

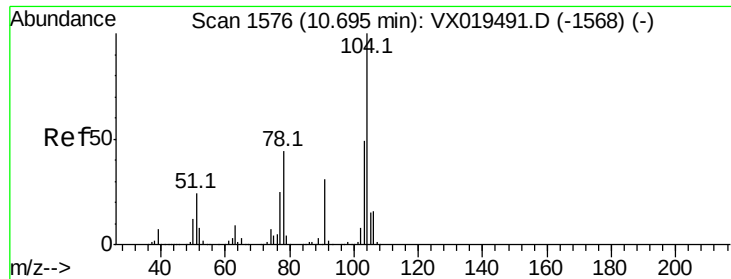
Tot Ion:117 Resp: 432279
Ion Ratio Lower Upper
117 100
82 54.0 43.0 64.4
119 31.0 25.6 38.4



#64
Tetrachloroethene
Concen: 10.192 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

Tgt Ion:164 Resp: 34633
Ion Ratio Lower Upper
164 100
166 136.6 107.4 161.0
129 93.4 76.6 114.8
131 95.5 72.6 108.8

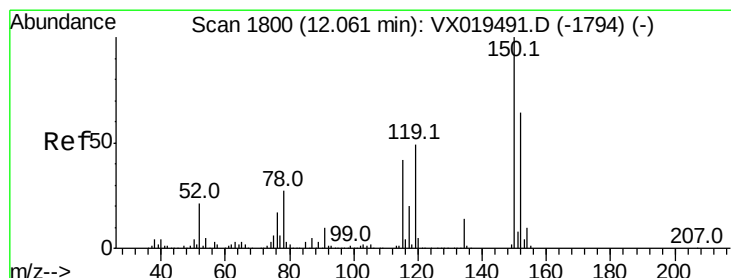
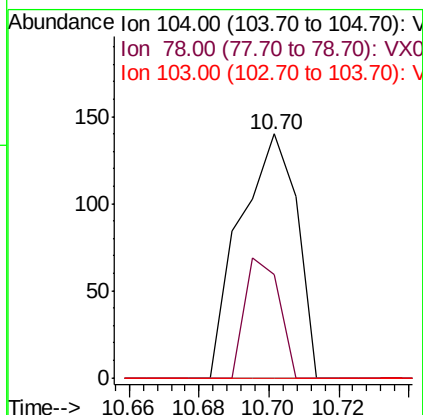
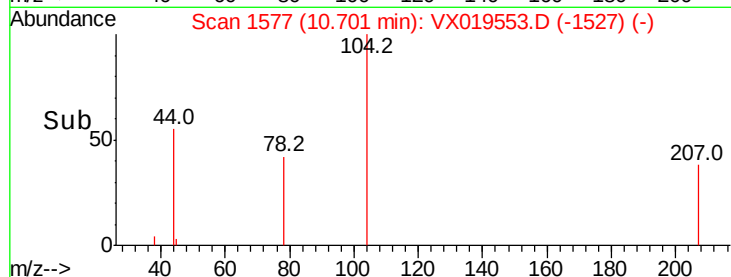
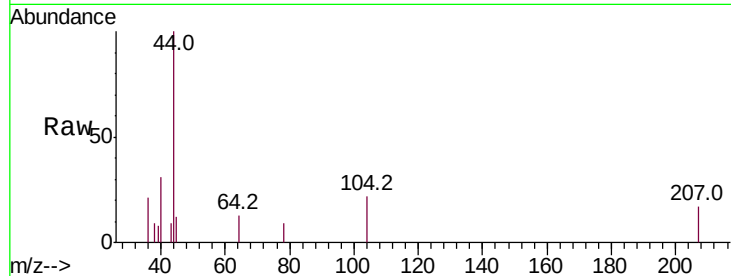




#70
Stvrene
Concen: 1.661 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

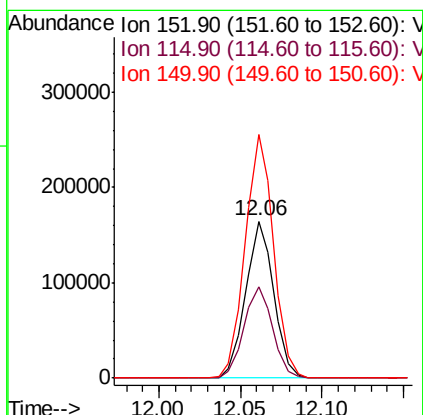
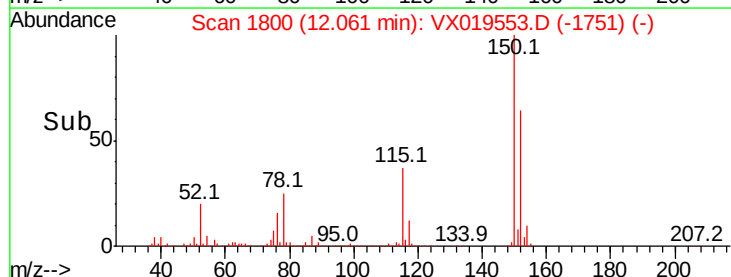
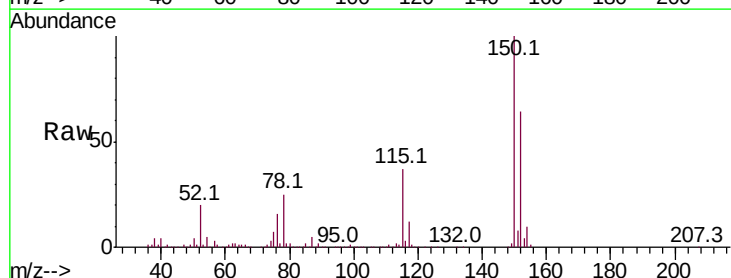
Instrument :
MSVOA_X
ClientSampleId :
56BR-20201118

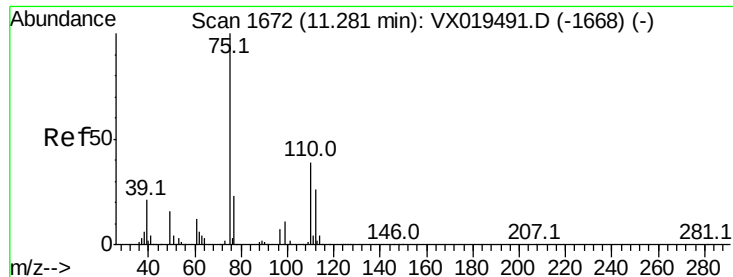
Tot Ion:104 Resp: 158
Ion Ratio Lower Upper
104 100
78 29.7 39.5 59.3#
103 0.0 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

Tgt Ion:152 Resp: 197407
Ion Ratio Lower Upper
152 100
115 59.4 41.8 125.4
150 157.1 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 23.543 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

Instrument :

MSVOA_X

ClientSampleId :

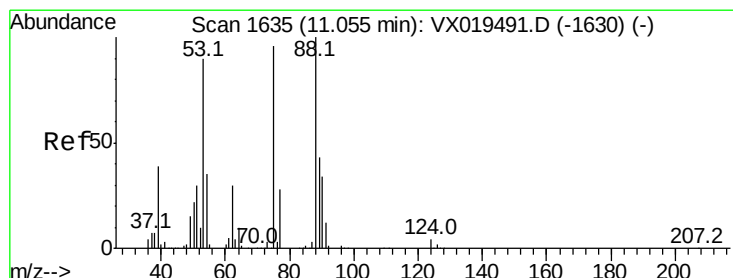
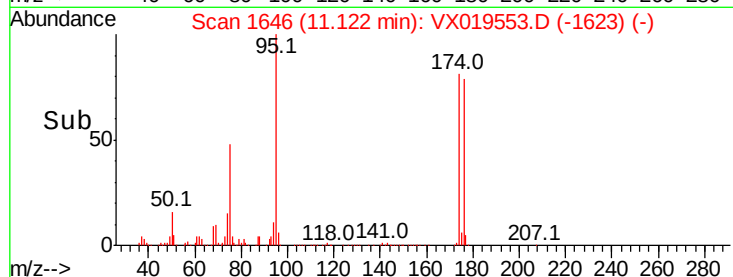
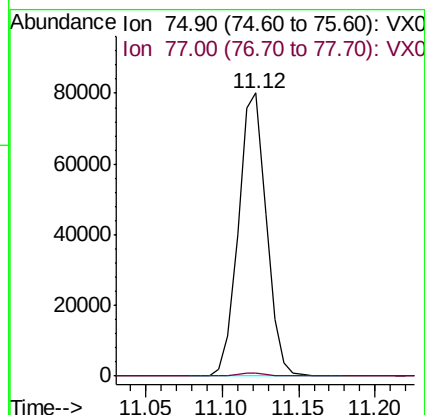
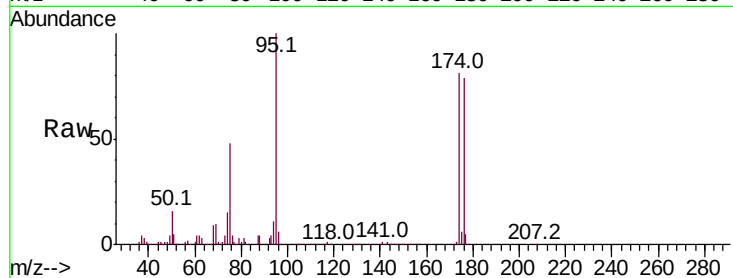
56BR-20201118

Tot Ion: 75 Resp: 101426

Ion Ratio Lower Upper

75 100

77 1.1 20.0 60.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.438 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019553.D

Acq: 23 Nov 2020 16:15

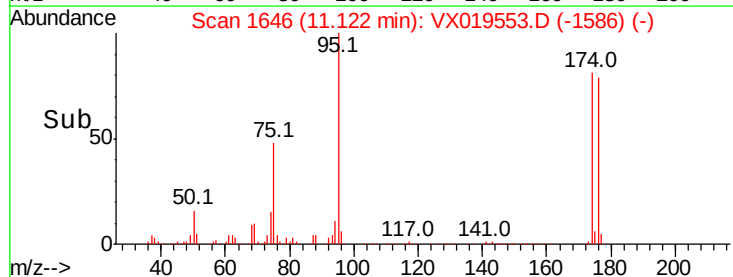
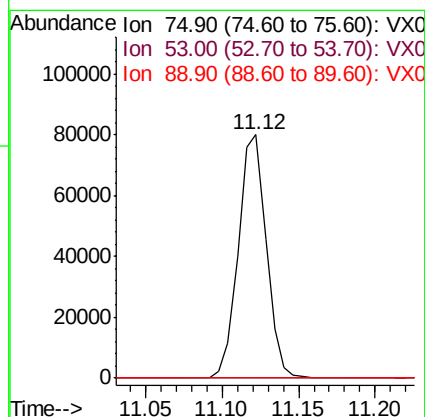
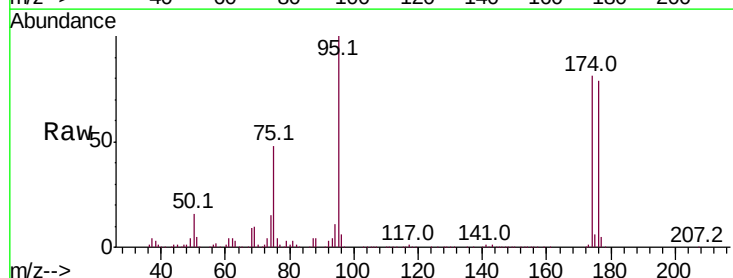
Tgt Ion: 75 Resp: 101426

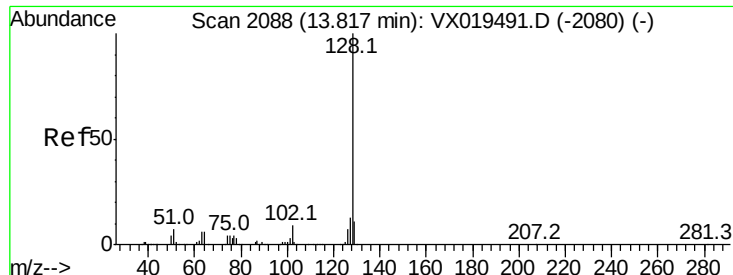
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.3 55.9#





#95
Naphthalene
Concen: 2.198 ug/l
RT: 13.81 min Scan# 2087
Delta R.T. -0.01 min
Lab File: VX019553.D
Acq: 23 Nov 2020 16:15

Instrument :
MSVOA_X
ClientSampleId :
56BR-20201118

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.7	13.1#

