

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019770.D
 Acq On : 09 Dec 2020 11:40
 Operator : JC/MD
 Sample : VX1209WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1209WBL01

Quant Time: Dec 10 05:38:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	321461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	511645	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	461311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	201514	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	190755	45.15	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	90.30%
35) Dibromofluoromethane	5.46	113	156484	47.32	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.64%
50) Toluene-d8	8.70	98	612803	48.54	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.08%
62) 4-Bromofluorobenzene	11.12	95	212317	44.19	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.38%

Target Compounds

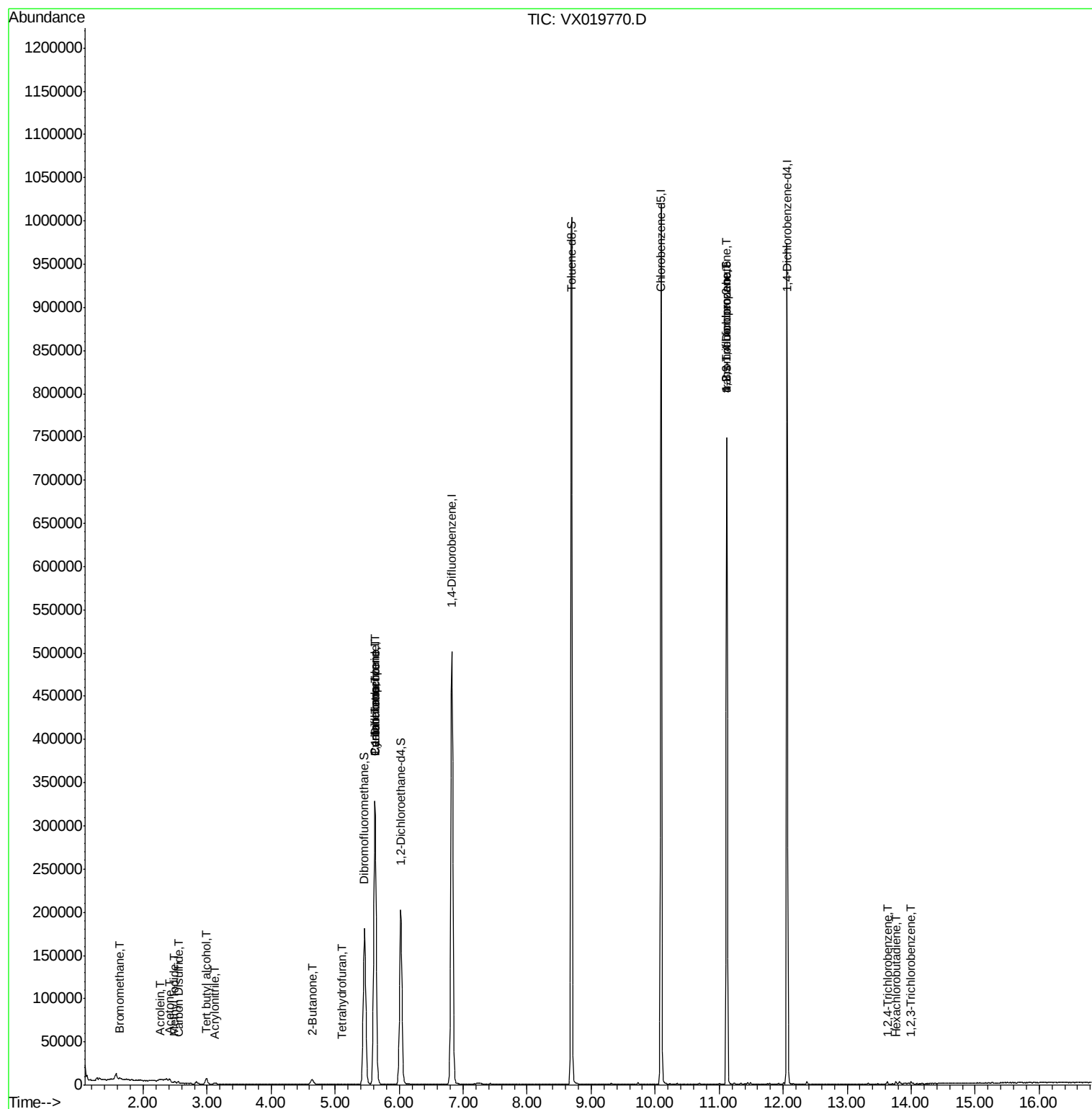
					Qvalue	
5) Bromomethane	1.64	94	1061	0.876	ug/l	99
10) Methyl Iodide	2.49	142	1660	0.387	ug/l	97
11) Tert butyl alcohol	2.98	59	4068	2.092	ug/l #	78
13) Acrolein	2.26	56	372	0.798	ug/l #	58
15) Acrylonitrile	3.11	53	551	0.288	ug/l #	85
16) Acetone	2.42	43	1574	0.991	ug/l #	87
17) Carbon Disulfide	2.55	76	2484	0.294	ug/l	97
20) Methylene Chloride	2.83	84	1160	Below Cal		96
25) 2-Butanone	4.64	43	576	0.236	ug/l #	45
29) Tetrahydrofuran	5.10	42	395	0.251	ug/l #	74
31) Cyclohexane	5.62	56	6048	1.151	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23557	5.095	ug/l #	49
38) Carbon Tetrachloride	5.62	117	30441	6.724	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	104614	23.147	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	104614	66.913	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	903	0.220	ug/l	96
94) Hexachlorobutadiene	13.76	225	468	0.255	ug/l	88
96) 1,2,3-Trichlorobenzene	14.00	180	826	0.206	ug/l	95

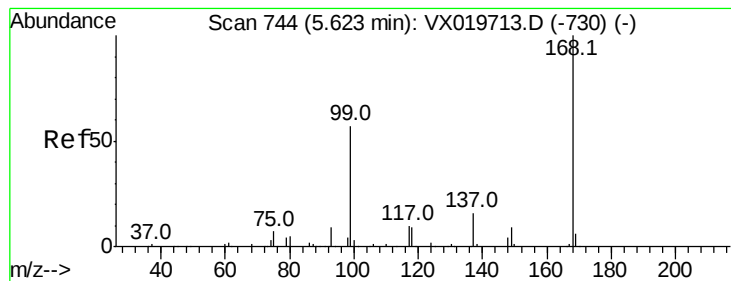
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 10 05:38:18 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

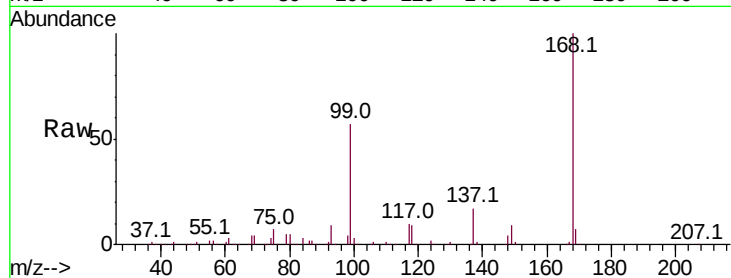
VX1209WBL01

Tot Ion:168 Resp: 321461

Ion Ratio Lower Upper

168 100

99 57.5 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

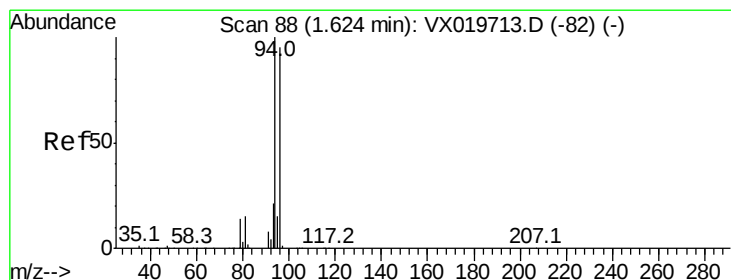
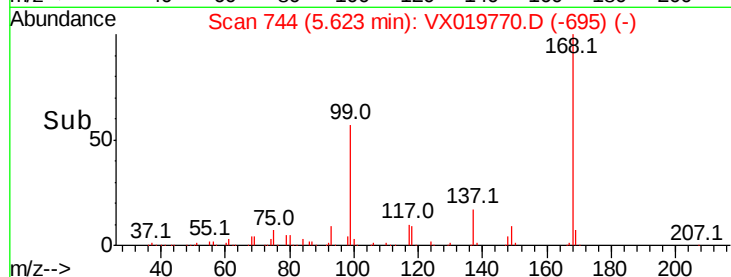
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.876 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019770.D

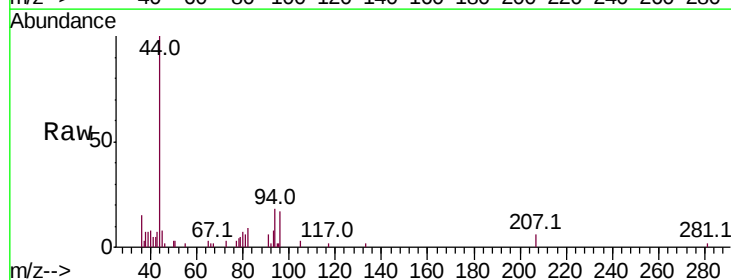
Acq: 09 Dec 2020 11:40

Tgt Ion: 94 Resp: 1061

Ion Ratio Lower Upper

94 100

96 94.3 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

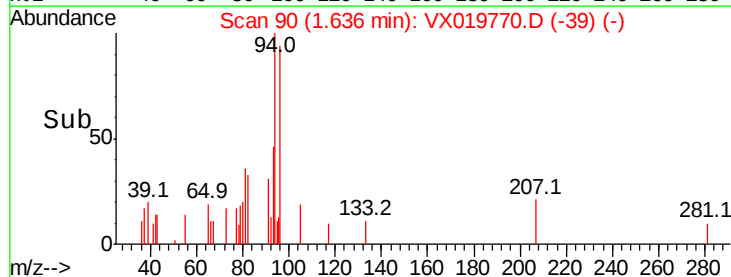
200

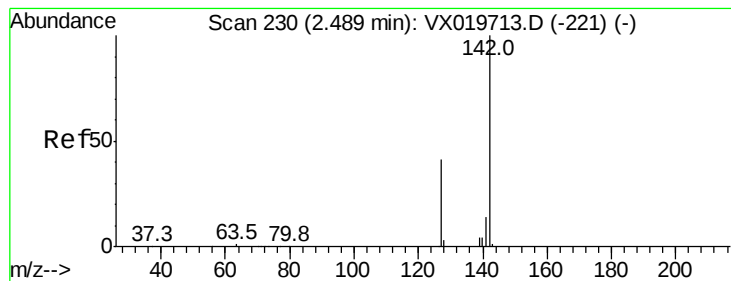
100

0

Time-->

1.60 1.65 1.70





#10

Methvl Iodide

Concen: 0.387 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

VX1209WBL01

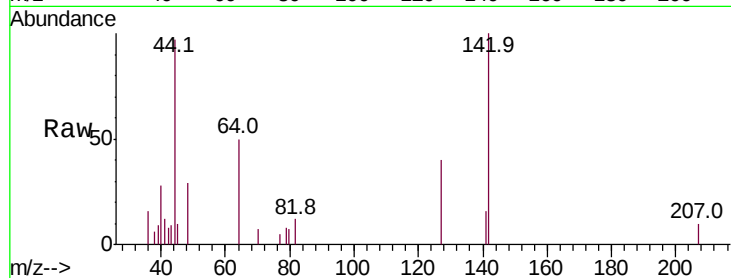
Tot Ion:142 Resp: 1660

Ion Ratio Lower Upper

142 100

127 42.8 33.3 49.9

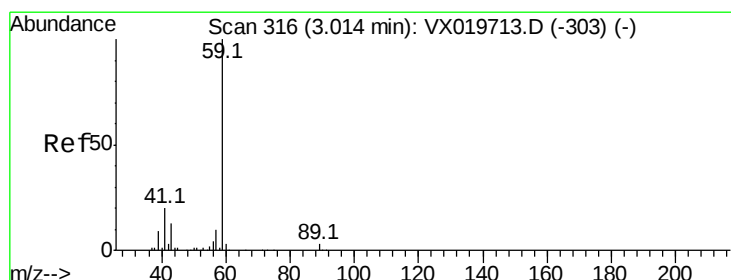
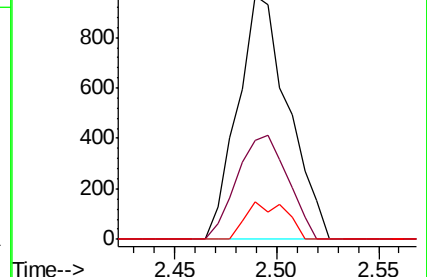
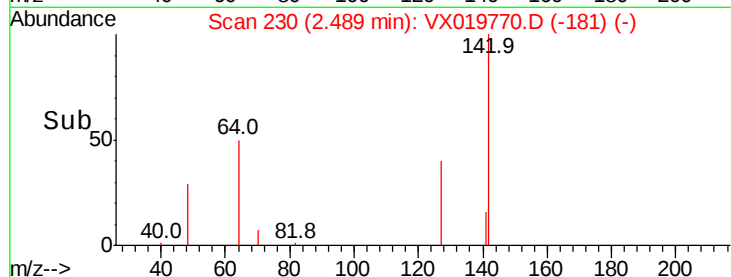
141 12.3 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.092 ug/l

RT: 2.98 min Scan# 311

Delta R.T. -0.03 min

Lab File: VX019770.D

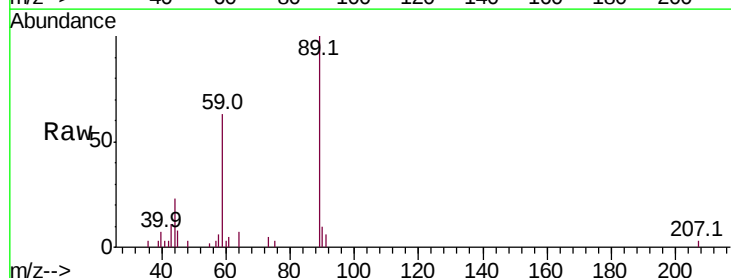
Acq: 09 Dec 2020 11:40

Tgt Ion: 59 Resp: 4068

Ion Ratio Lower Upper

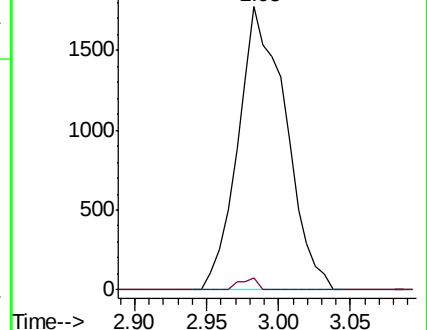
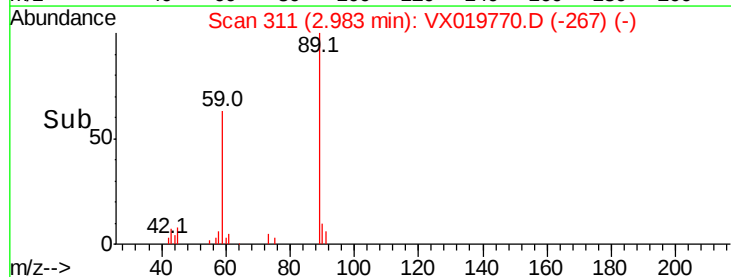
59 100

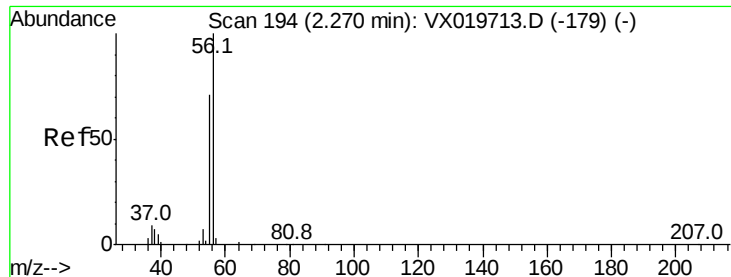
57 1.6 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.798 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

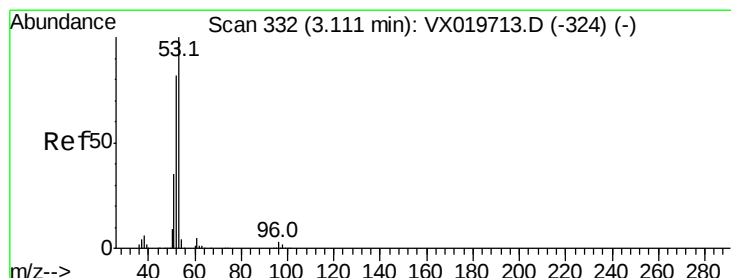
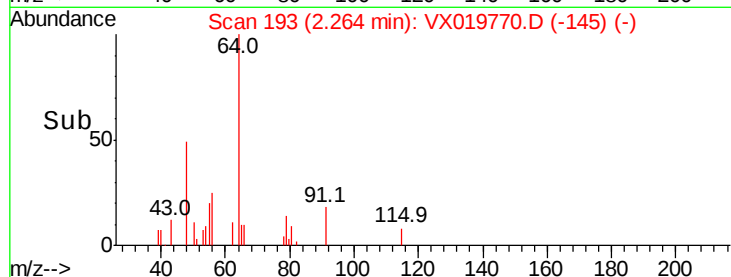
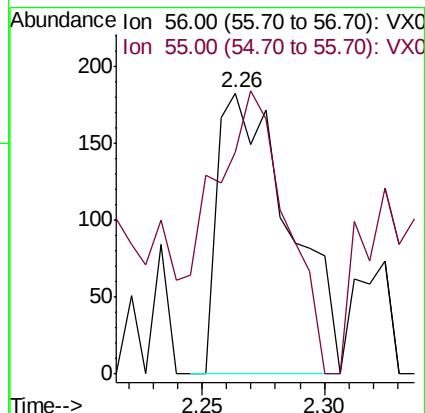
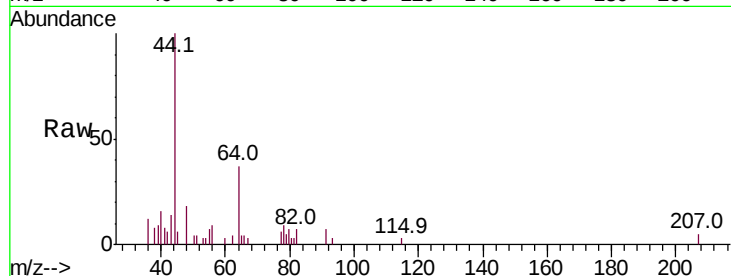
VX1209WBL01

Tot Ion: 56 Resp: 372

Ion Ratio Lower Upper

56 100

55 105.1 56.4 84.6#



#15

Acrylonitrile

Concen: 0.288 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

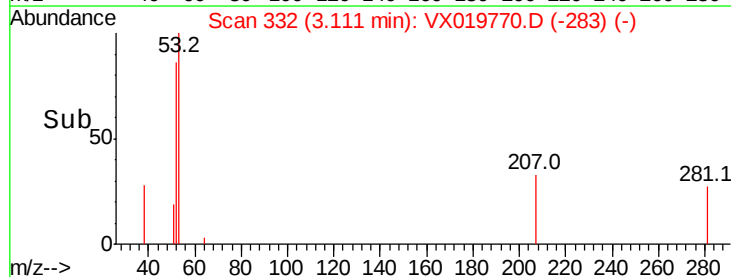
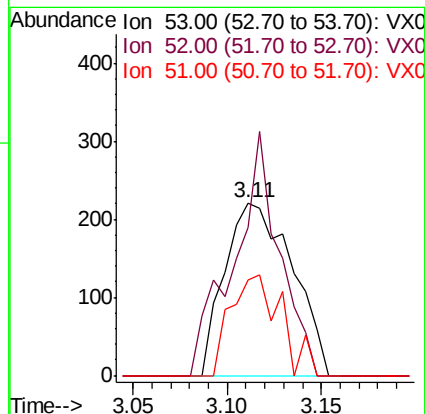
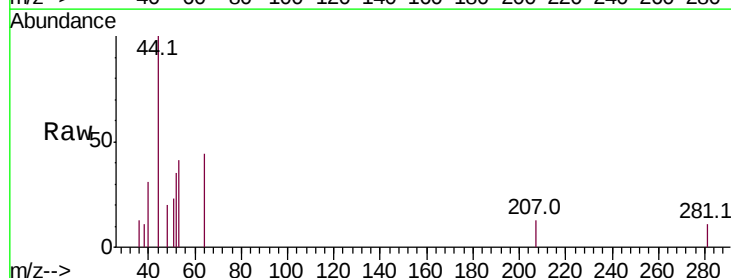
Tgt Ion: 53 Resp: 551

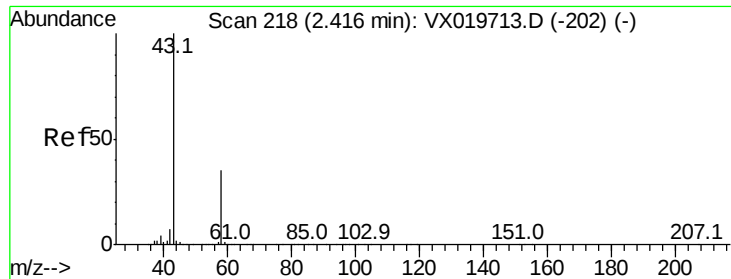
Ion Ratio Lower Upper

53 100

52 94.7 65.3 97.9

51 43.6 28.2 42.2#





#16

Acetone

Concen: 0.991 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

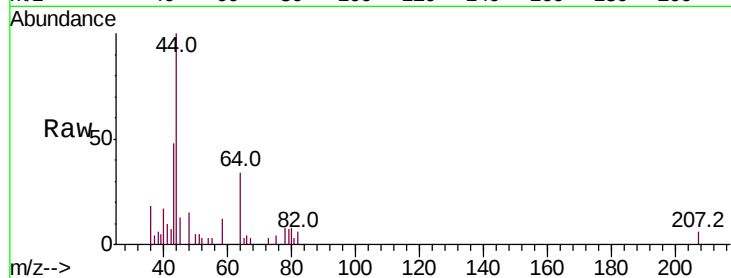
VX1209WBL01

Tot Ion: 43 Resp: 1574

Ion Ratio Lower Upper

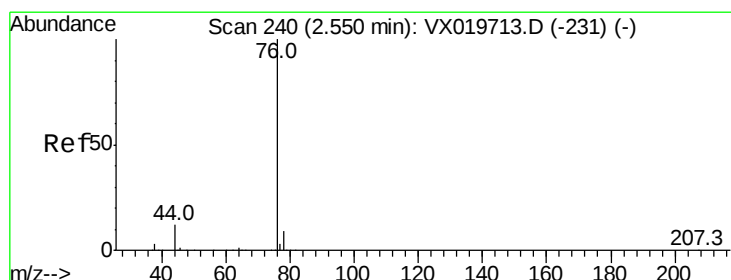
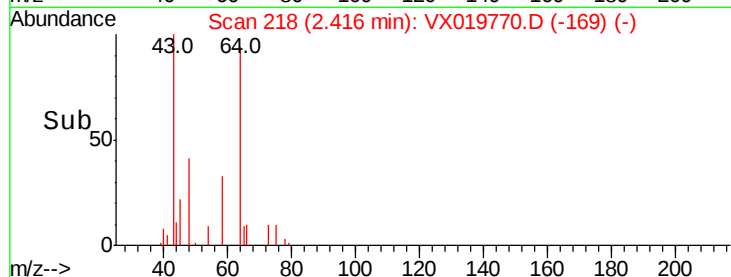
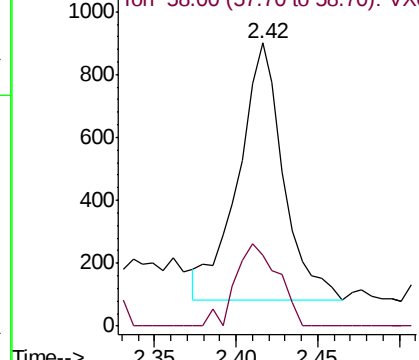
43 100

58 27.5 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX019770.D

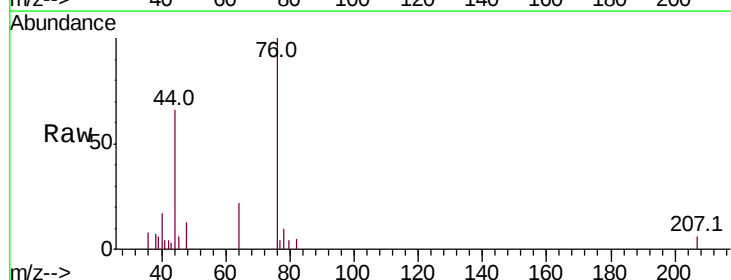
Acq: 09 Dec 2020 11:40

Tgt Ion: 76 Resp: 2484

Ion Ratio Lower Upper

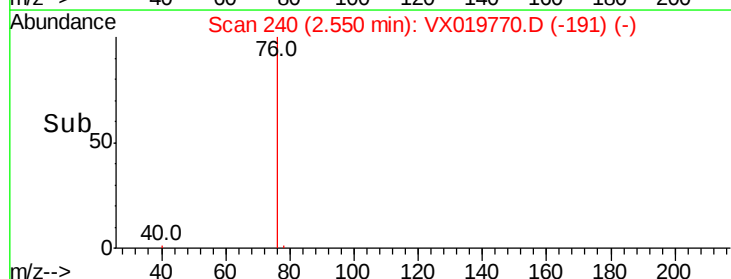
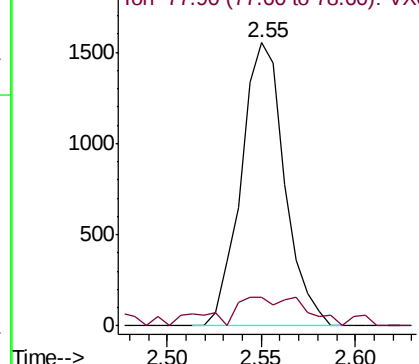
76 100

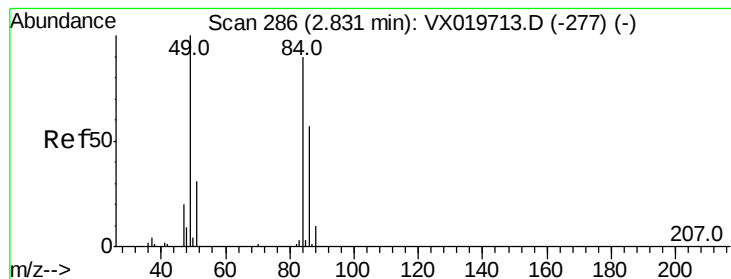
78 9.9 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

VX1209WBL01

Tot Ion: 84 Resp: 1160

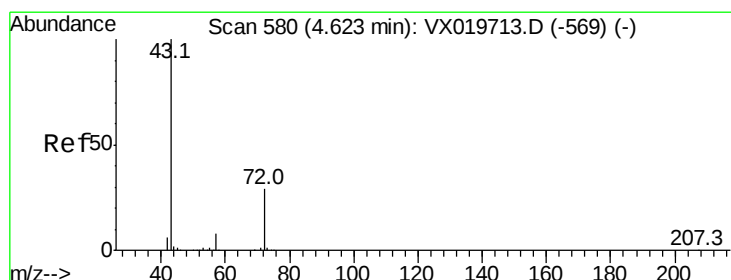
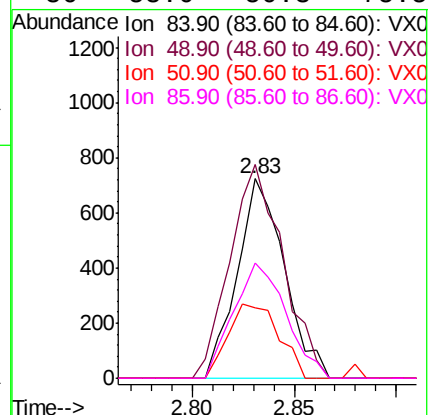
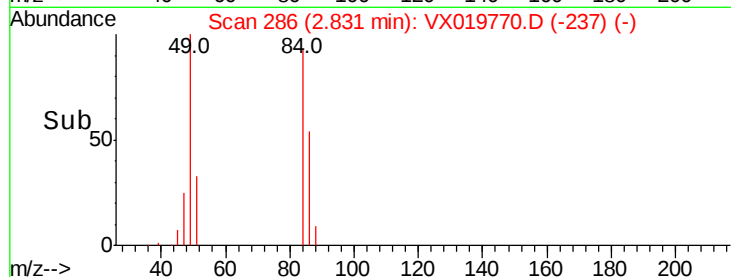
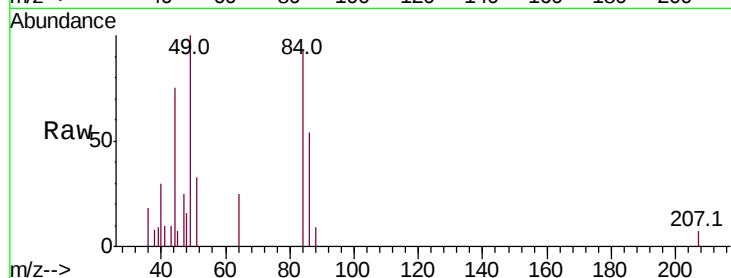
Ion Ratio Lower Upper

84 100

49 107.2 88.6 132.8

51 35.7 27.0 40.6

86 58.0 50.3 75.5



#25

2-Butanone

Concen: 0.236 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019770.D

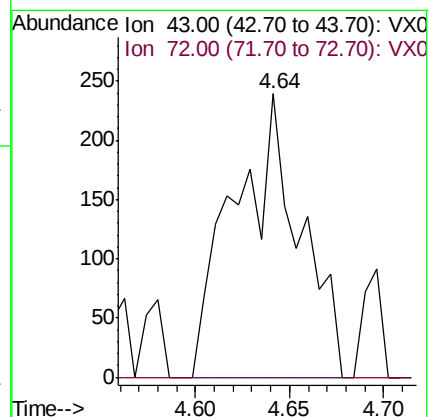
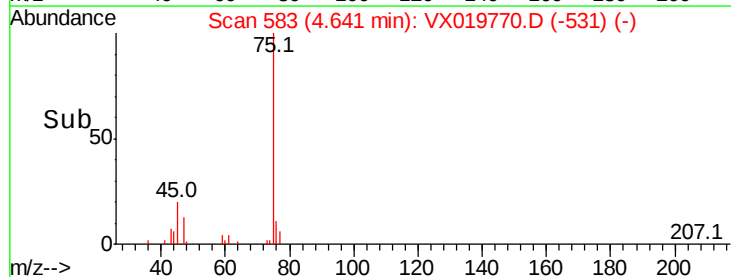
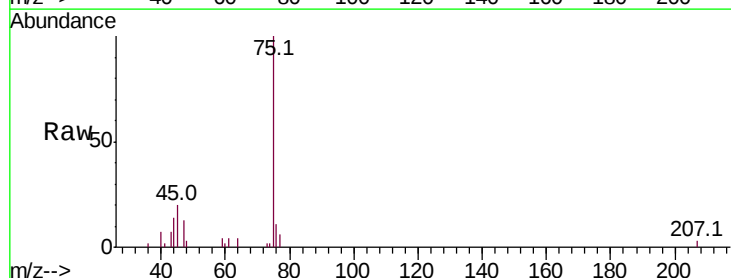
Acq: 09 Dec 2020 11:40

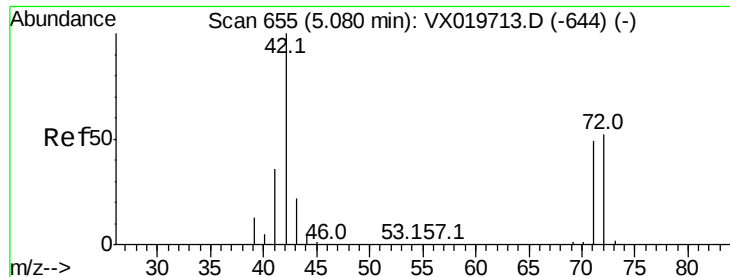
Tgt Ion: 43 Resp: 576

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.251 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

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VX1209WBL01

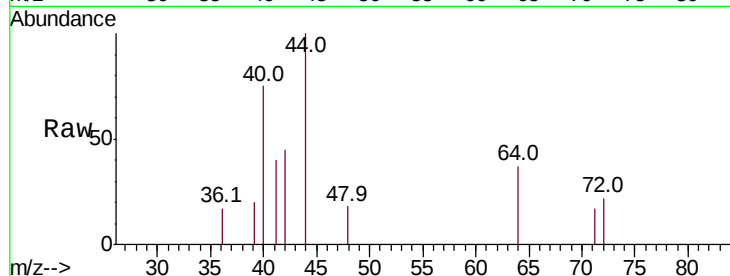
Tot Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 36.2 41.7 62.5#

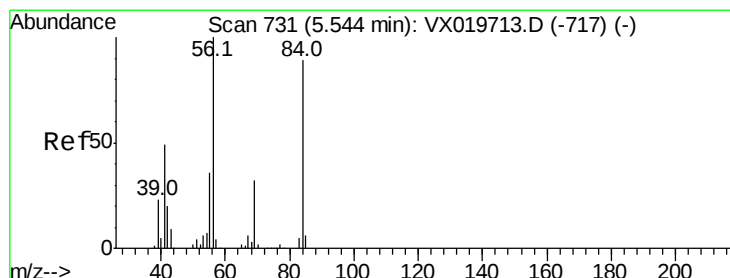
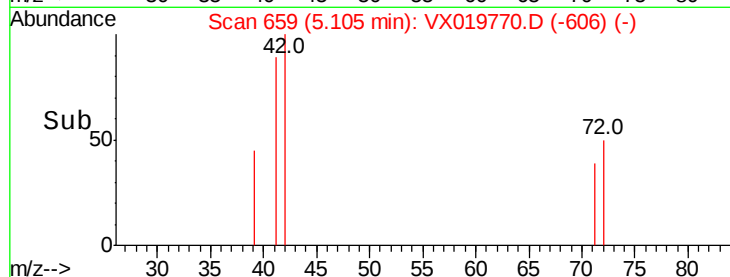
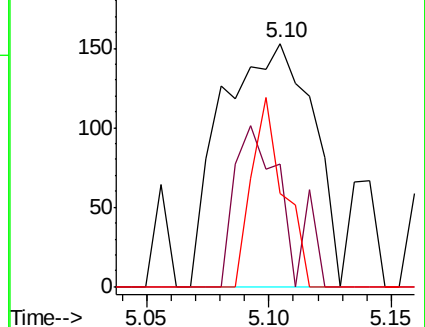
71 27.6 38.4 57.6#



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: 1.151 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

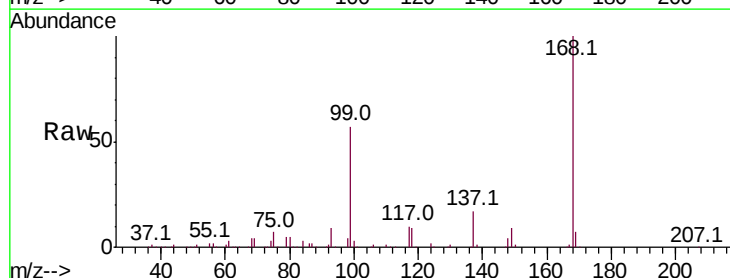
Tgt Ion: 56 Resp: 6048

Ion Ratio Lower Upper

56 100

69 196.7 25.3 37.9#

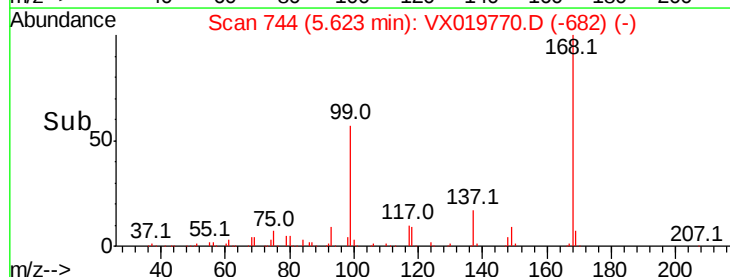
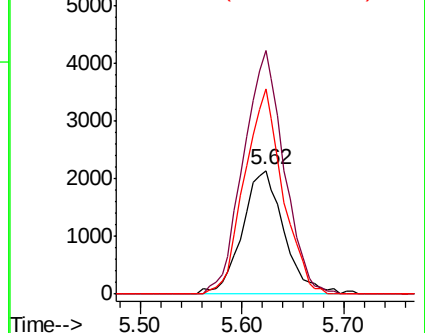
84 165.6 71.4 107.0#

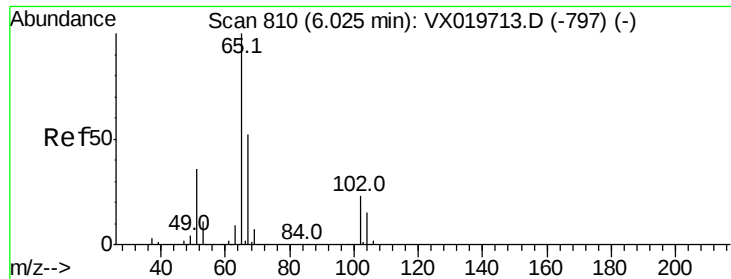


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.150 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

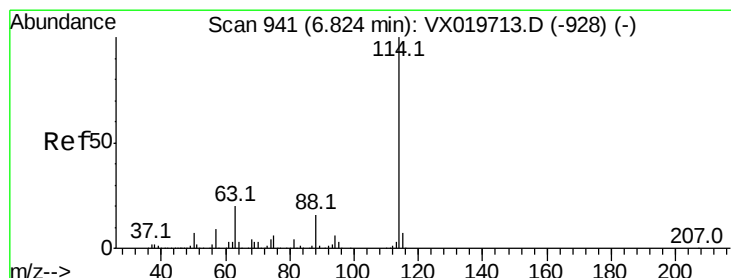
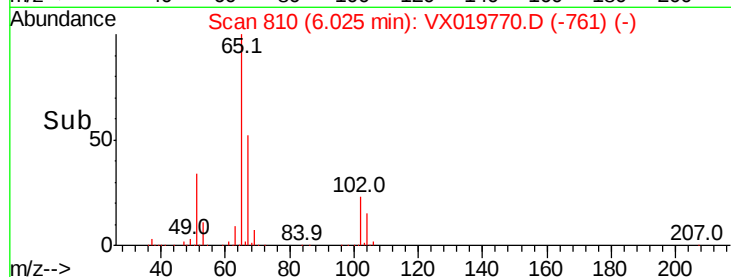
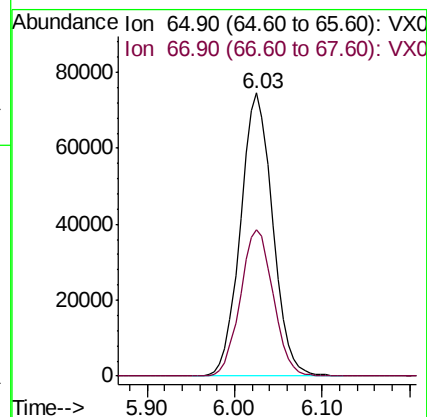
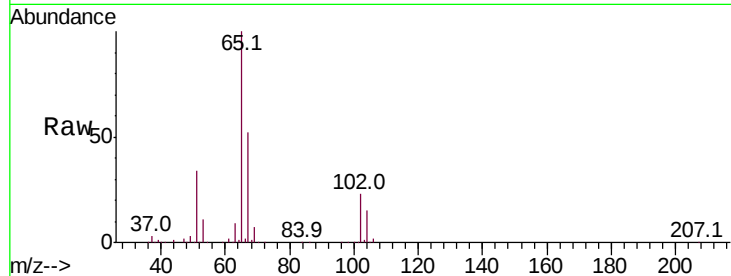
VX1209WBL01

Tot Ion: 65 Resp: 190755

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.82 min Scan# 941

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

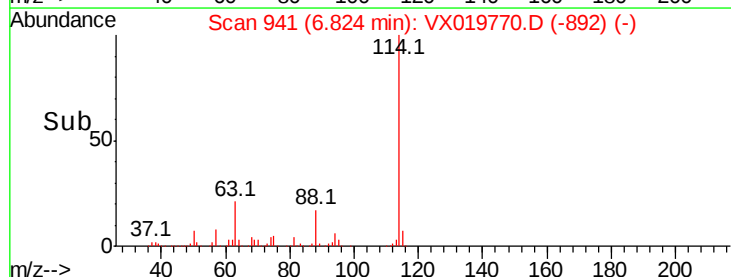
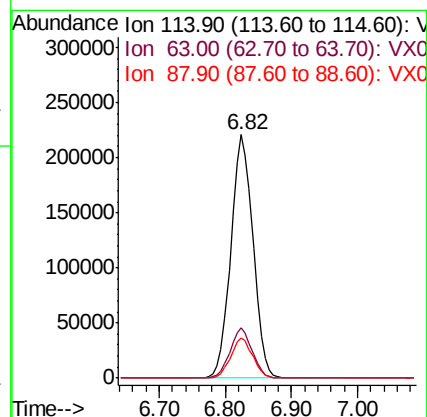
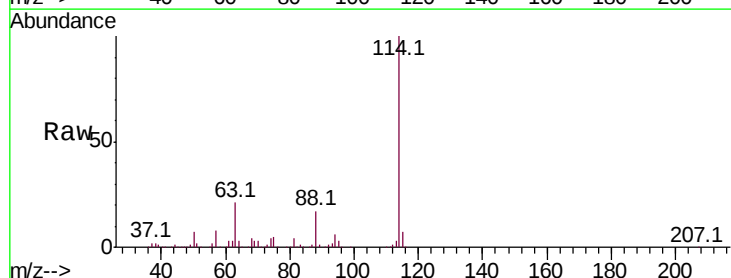
Tgt Ion: 114 Resp: 511645

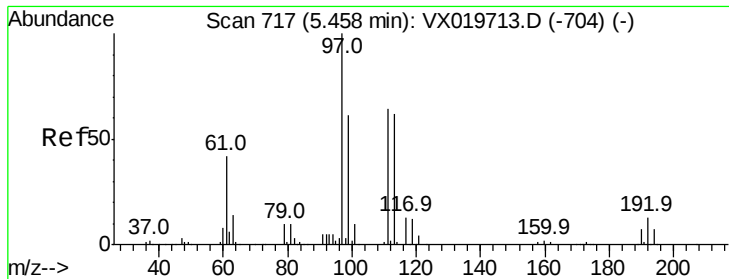
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 16.5 0.0 32.8

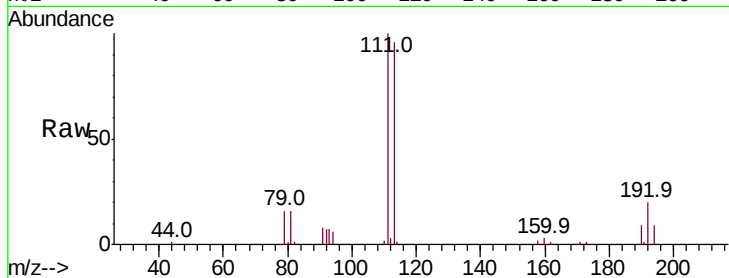




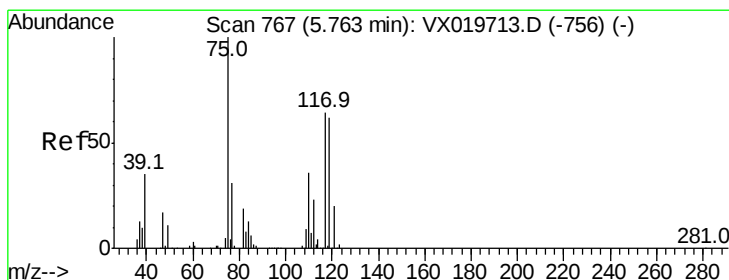
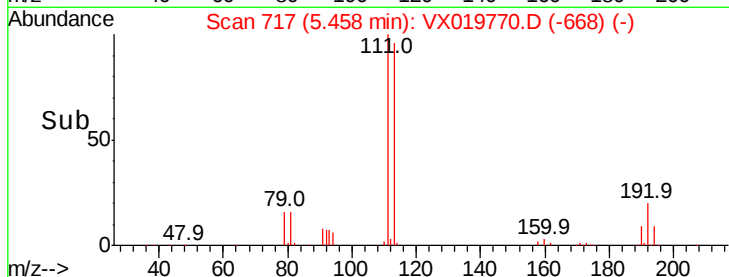
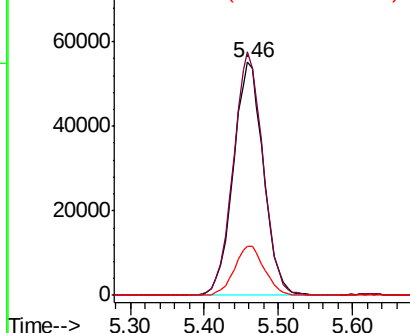
#35
 Dibromofluoromethane
 Concen: 47.324 ug/l
 RT: 5.46 min Scan# 717
 Delta R.T. -0.00 min
 Lab File: VX019770.D
 Acq: 09 Dec 2020 11:40

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1209WBL01

Tot Ion:113 Resp: 156484
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.9 122.9
 192 21.1 16.7 25.1

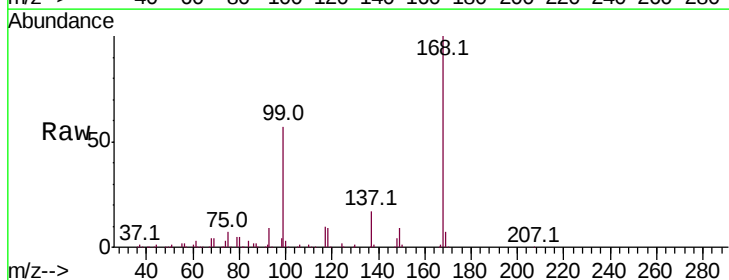


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

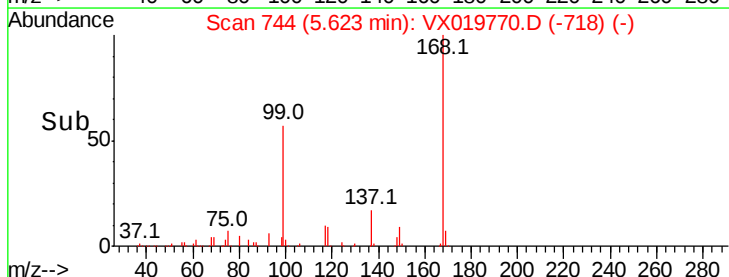
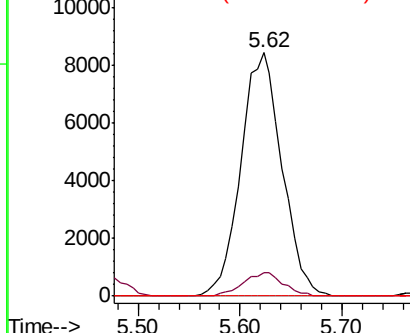


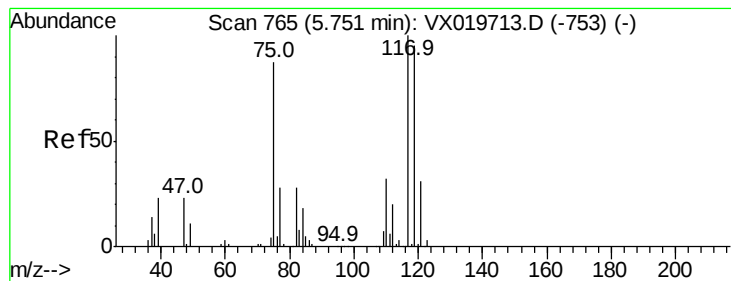
#36
 1,1-Dichloropropene
 Concen: 5.095 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019770.D
 Acq: 09 Dec 2020 11:40

Tgt Ion: 75 Resp: 23557
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.1 54.4#
 77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.724 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

VX1209WBL01

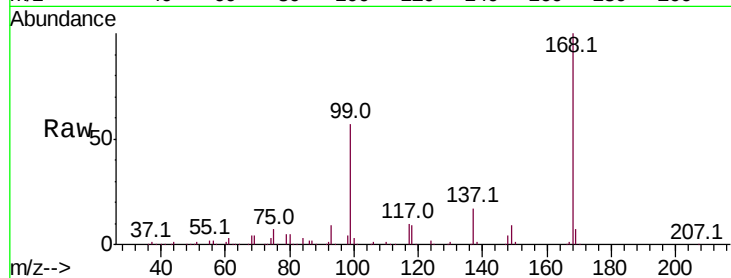
Tot Ion:117 Resp: 30441

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

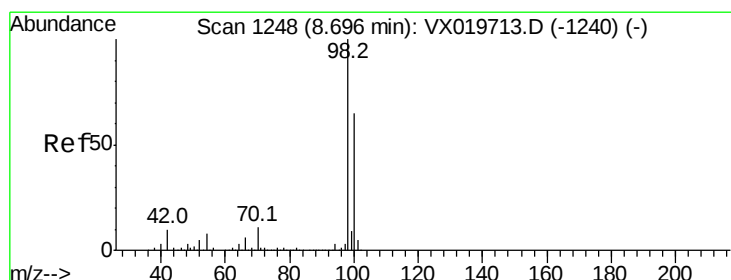
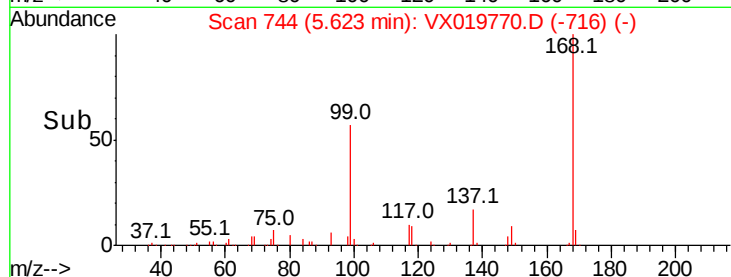
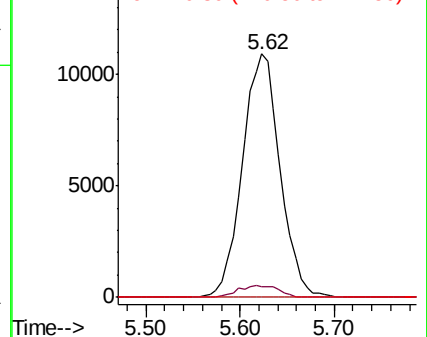
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.542 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019770.D

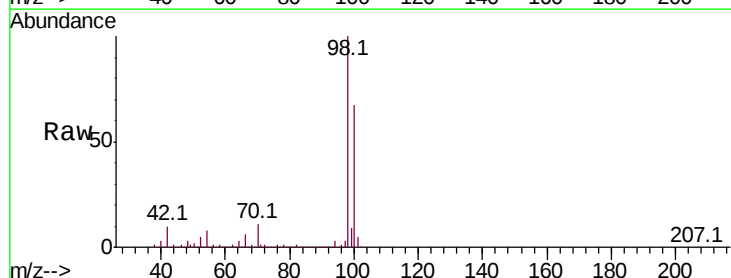
Acq: 09 Dec 2020 11:40

Tgt Ion: 98 Resp: 612803

Ion Ratio Lower Upper

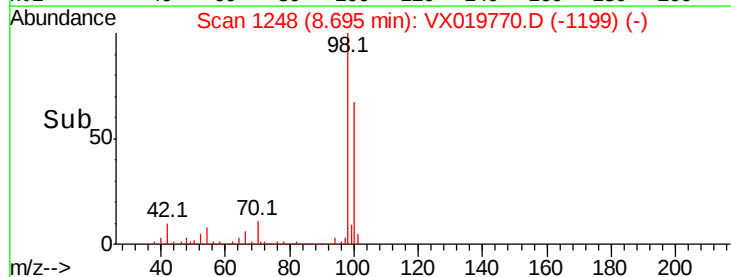
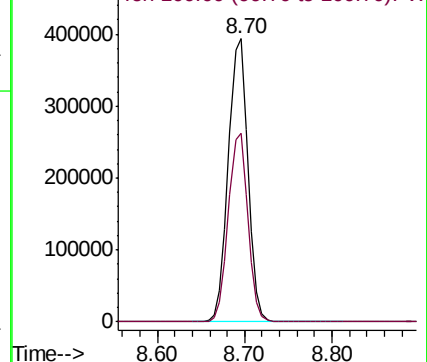
98 100

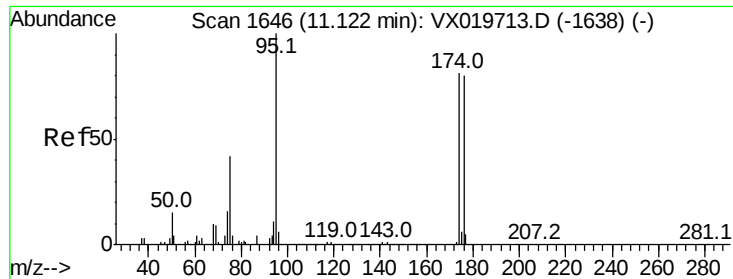
100 66.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.188 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.01 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

VX1209WBL01

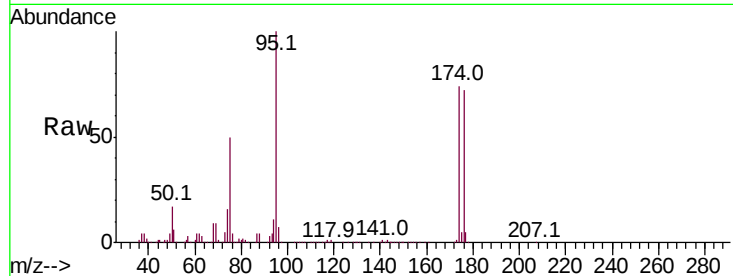
Tot Ion: 95 Resp: 212317

Ion Ratio Lower Upper

95 100

174 80.2 0.0 154.6

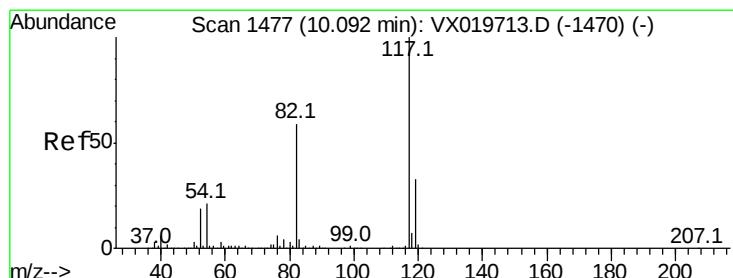
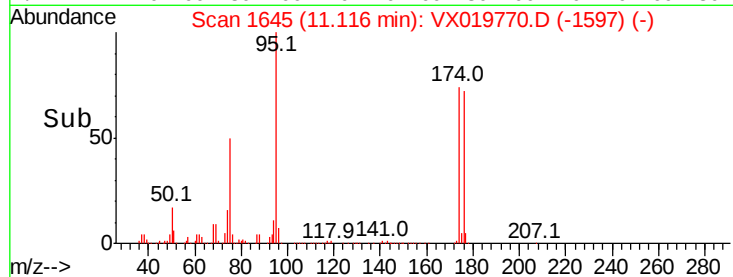
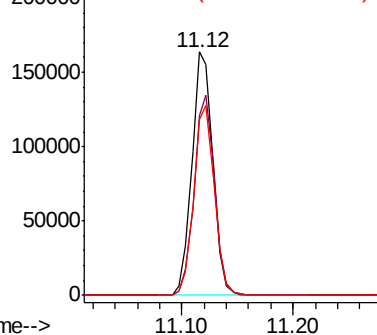
176 76.8 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

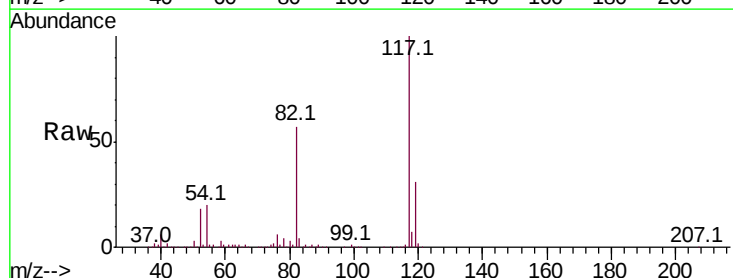
Tgt Ion: 117 Resp: 461311

Ion Ratio Lower Upper

117 100

82 56.6 47.4 71.2

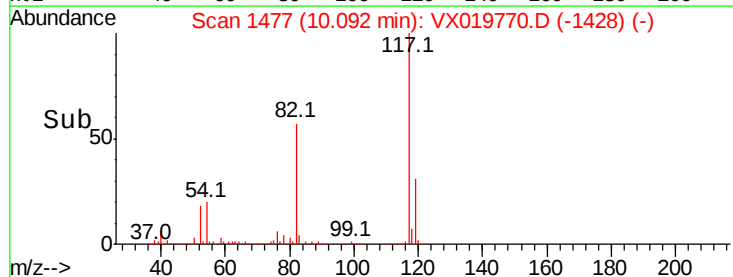
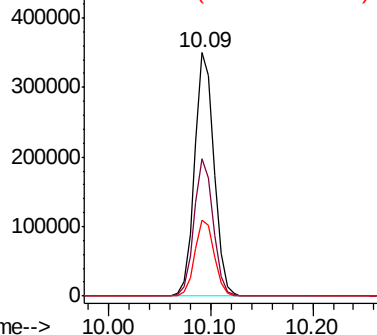
119 31.1 26.6 39.8

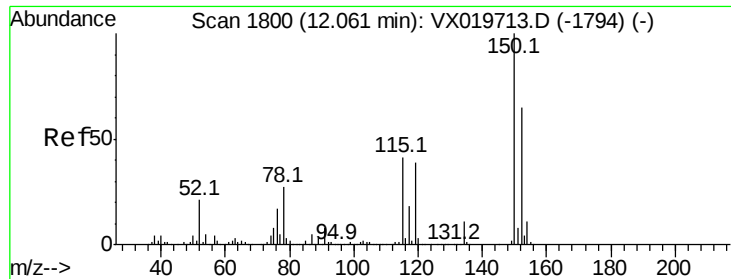


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

VX1209WBL01

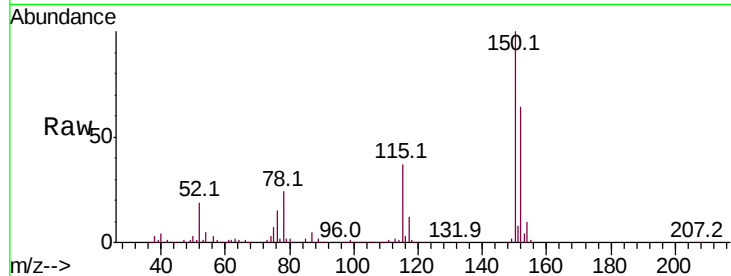
Tot Ion:152 Resp: 201514

Ion Ratio Lower Upper

152 100

115 59.3 41.1 123.3

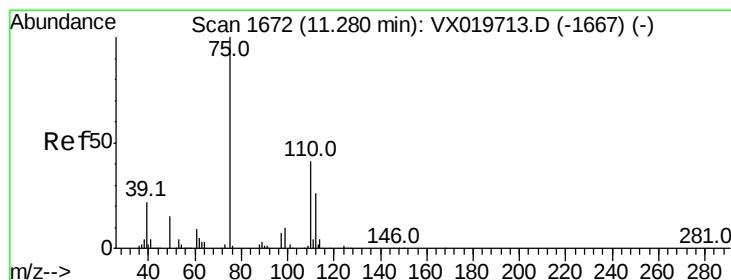
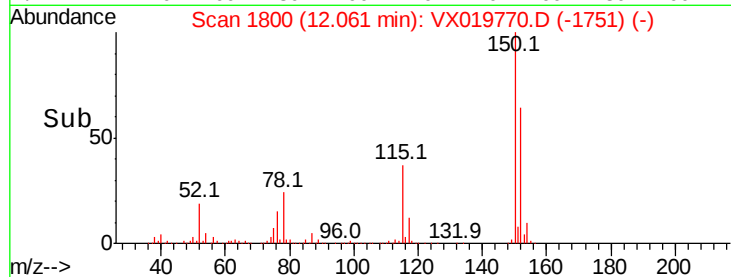
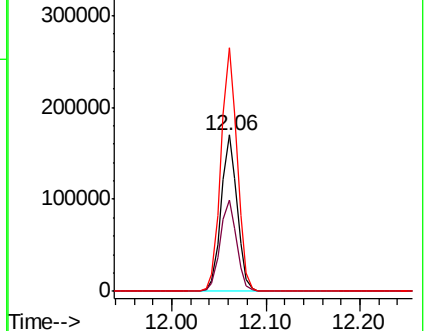
150 156.8 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.147 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019770.D

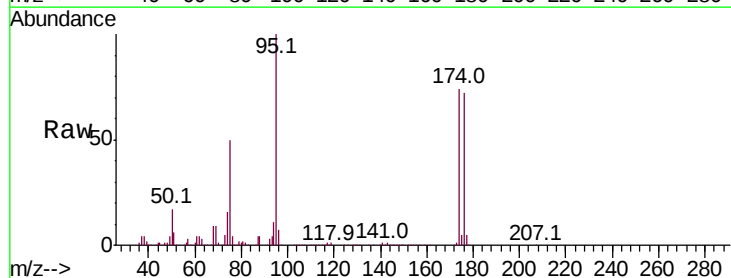
Acq: 09 Dec 2020 11:40

Tgt Ion: 75 Resp: 104614

Ion Ratio Lower Upper

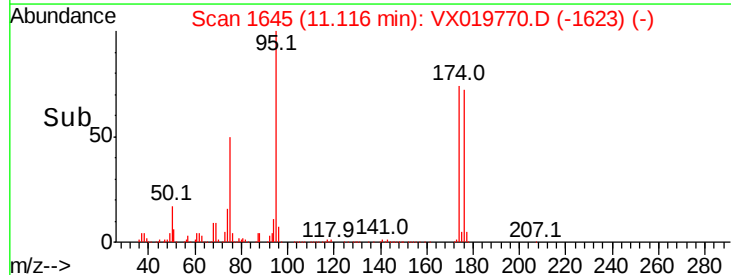
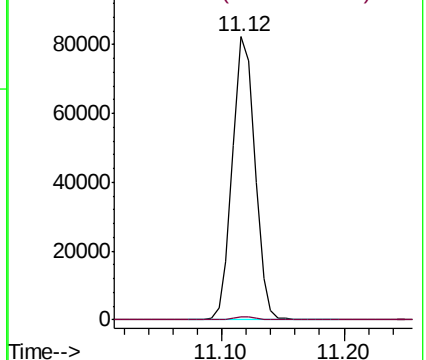
75 100

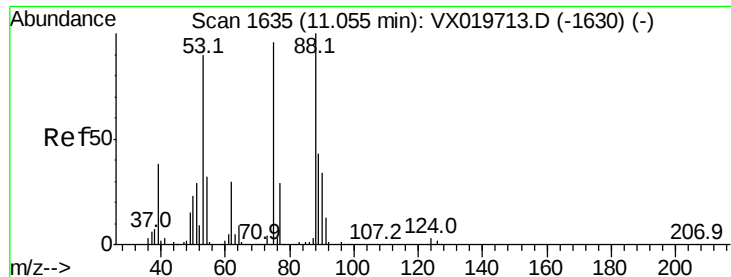
77 1.1 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.913 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampleId :

VX1209WBL01

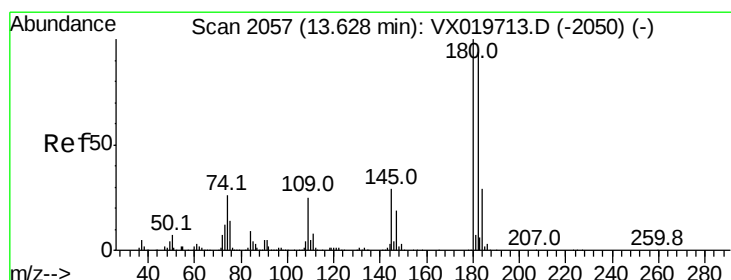
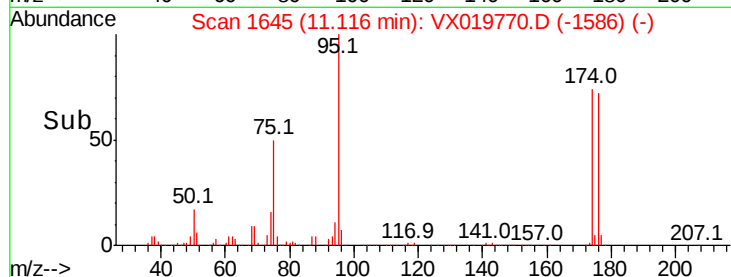
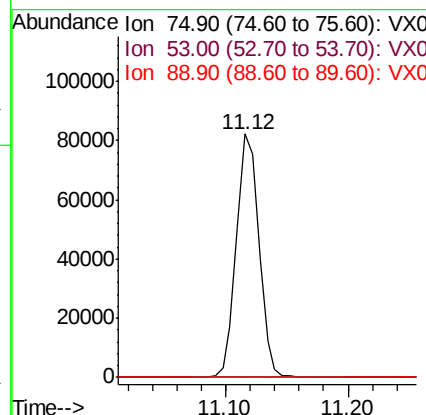
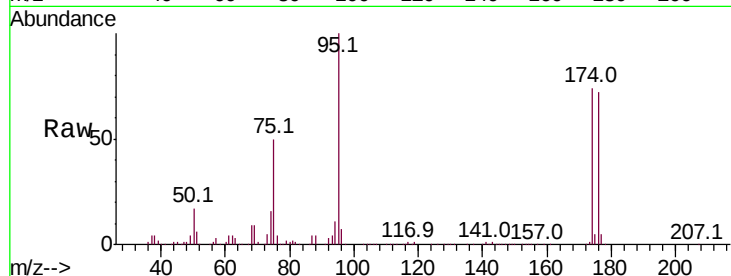
Tot Ion: 75 Resp: 104614

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#



#93

1,2,4-Trichlorobenzene

Concen: 0.220 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

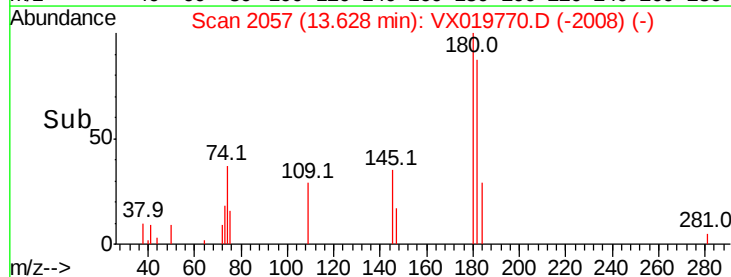
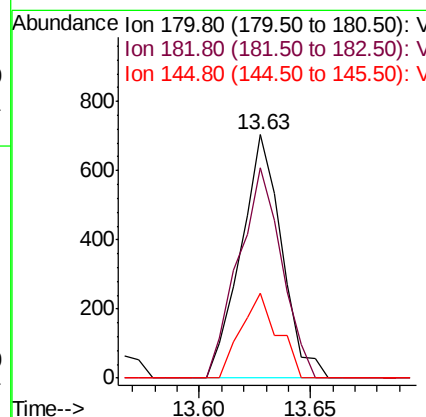
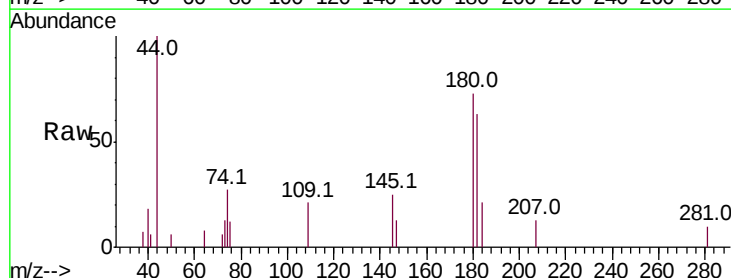
Tgt Ion:180 Resp: 903

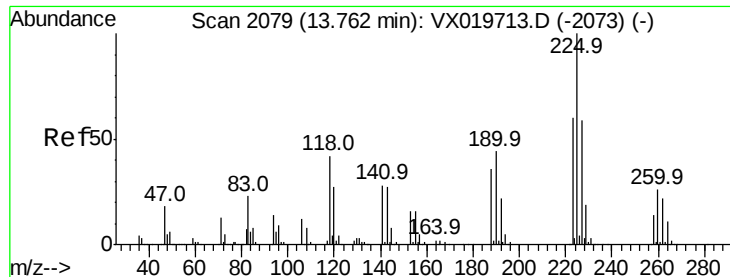
Ion Ratio Lower Upper

180 100

182 91.6 47.7 143.1

145 31.2 15.0 45.0





#94

Hexachlorobutadiene

Concen: 0.255 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

Instrument :

MSVOA_X

ClientSampled :

VX1209WBL01

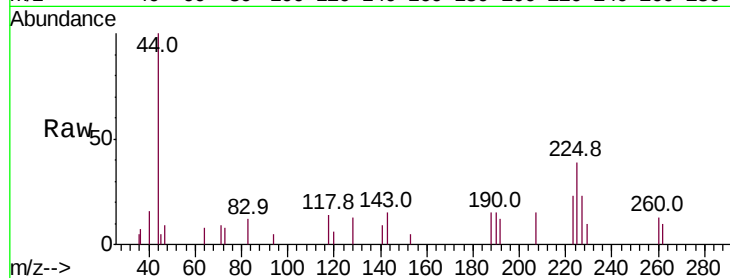
Tot Ion:225 Resp: 468

Ion Ratio Lower Upper

225 100

223 71.6 31.1 93.2

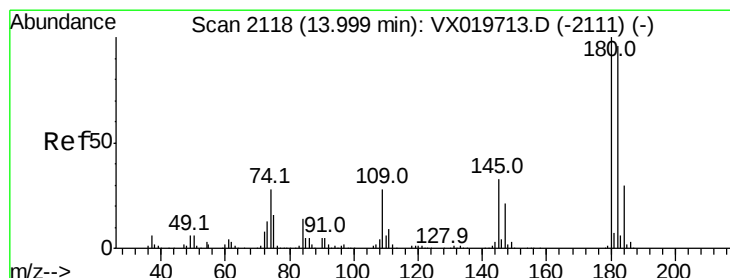
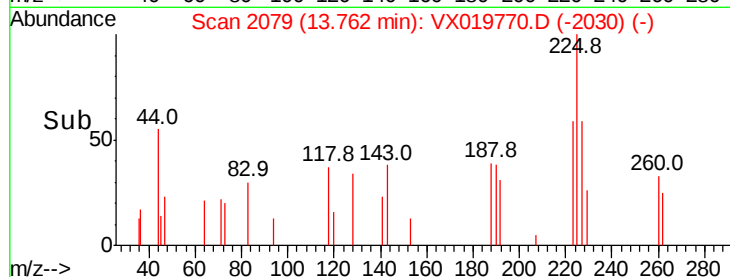
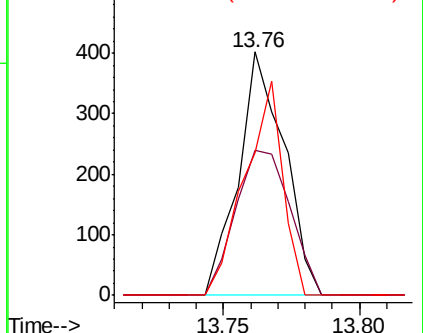
227 73.1 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.206 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX019770.D

Acq: 09 Dec 2020 11:40

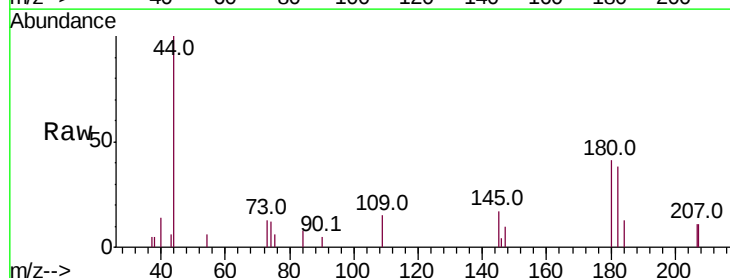
Tgt Ion:180 Resp: 826

Ion Ratio Lower Upper

180 100

182 88.4 47.6 142.9

145 32.6 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

