

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061220\
 Data File : VX016722.D
 Acq On : 12 Jun 2020 12:54
 Operator : JC/SP
 Sample : L3001-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 04:27:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	226884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	358915	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	356964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	178424	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	133077	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
35) Dibromofluoromethane	5.46	113	111648	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	8.70	98	437432	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	11.12	95	172133	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	

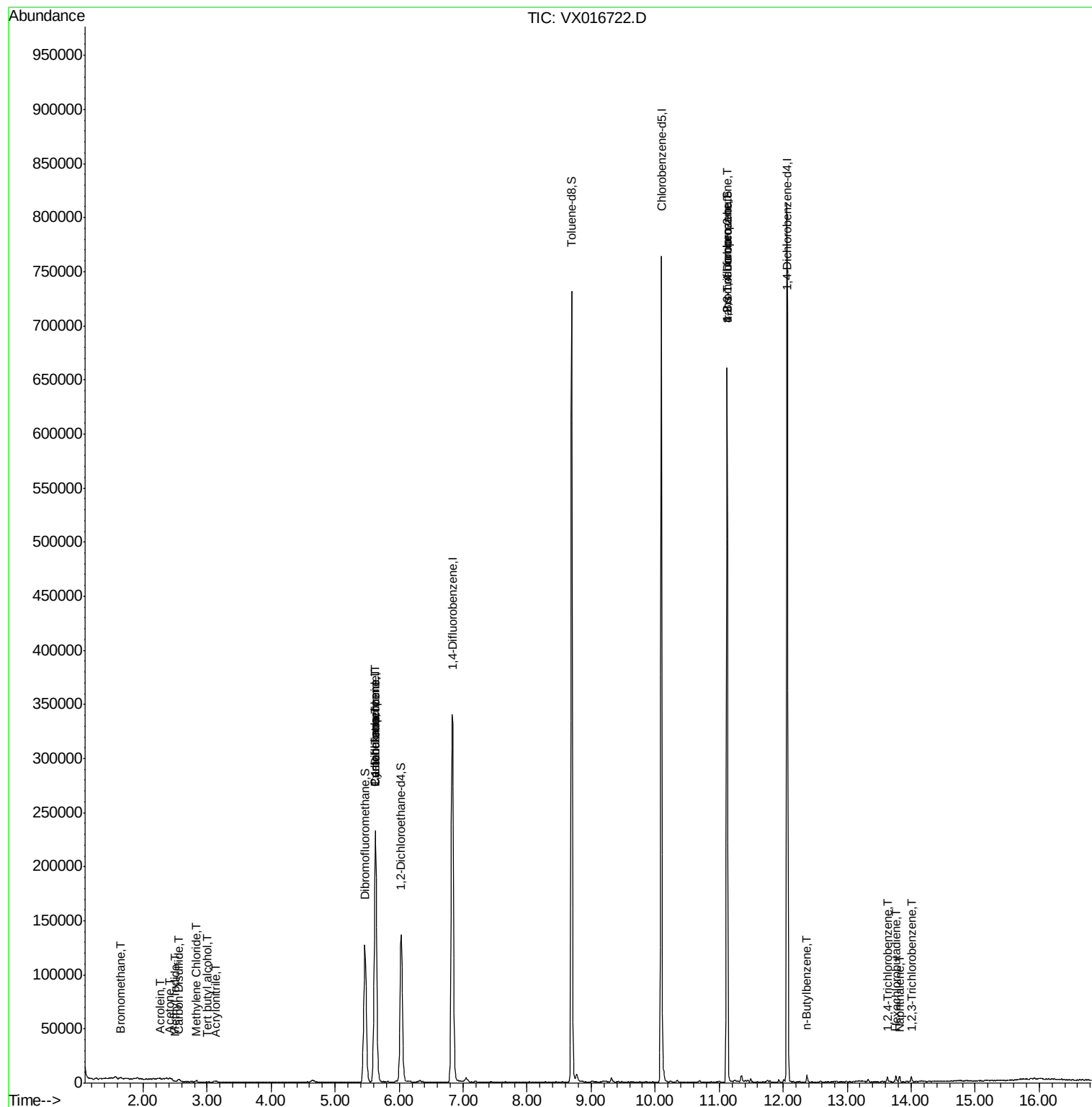
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	460	0.332	ug/l	84
10) Methyl Iodide	2.50	142	613	3.289	ug/l #	69
11) Tert butyl alcohol	3.01	59	248	0.343	ug/l #	72
13) Acrolein	2.27	56	348	1.132	ug/l #	26
15) Acrylonitrile	3.12	53	548	0.370	ug/l #	73
16) Acetone	2.42	43	1333	1.080	ug/l #	61
17) Carbon Disulfide	2.55	76	2351	0.363	ug/l #	85
20) Methylene Chloride	2.83	84	833	0.326	ug/l #	72
31) Cyclohexane	5.63	56	4415	1.127	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15178	4.466	ug/l #	51
38) Carbon Tetrachloride	5.64	117	21650	6.062	ug/l #	18
76) 1,2,3-Trichloropropane	11.12	75	83953	21.406	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	83953	52.657	ug/l #	14
89) n-Butylbenzene	12.37	91	2056	0.238	ug/l	98
93) 1,2,4-Trichlorobenzene	13.63	180	1582	0.438	ug/l	94
94) Hexachlorobutadiene	13.76	225	862	0.607	ug/l	95
95) Naphthalene	13.82	128	3332	0.269	ug/l	97
96) 1,2,3-Trichlorobenzene	14.01	180	1379	0.389	ug/l	97

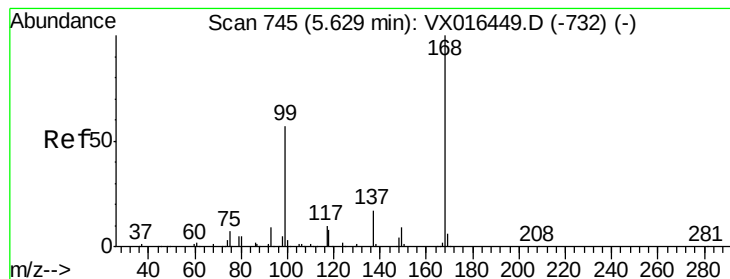
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

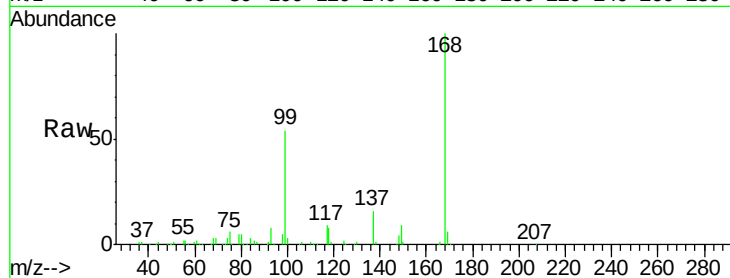
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 226884

Ion Ratio Lower Upper

168 100

99 54.0 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

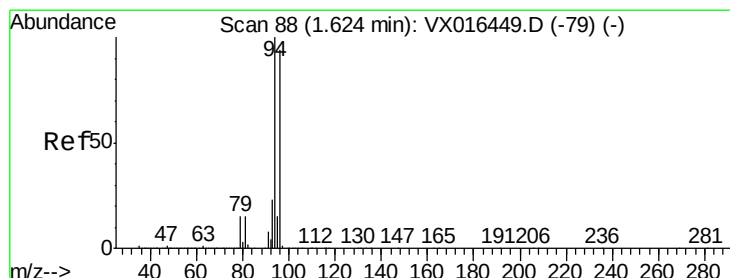
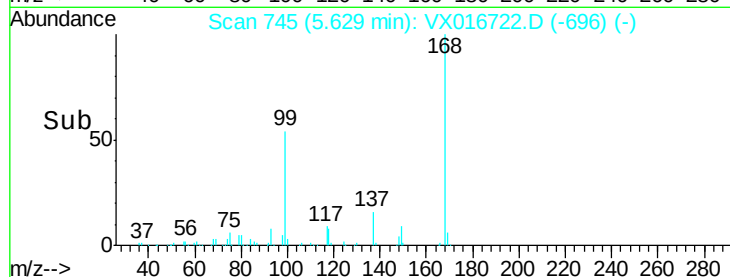
40000

20000

0

Time-->

5.50 5.60 5.70



#5

Bromomethane

Concen: 0.332 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX016722.D

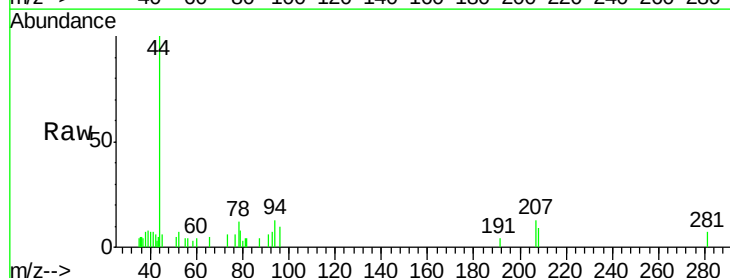
Acq: 12 Jun 2020 12:54

Tgt Ion: 94 Resp: 460

Ion Ratio Lower Upper

94 100

96 78.1 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

250

200

150

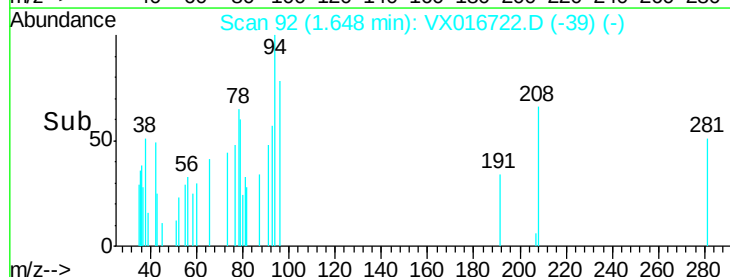
100

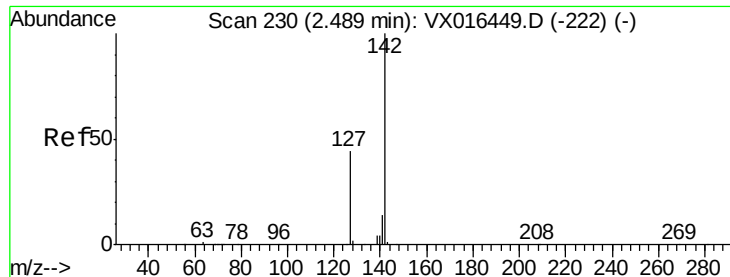
50

0

Time-->

1.60 1.65 1.70

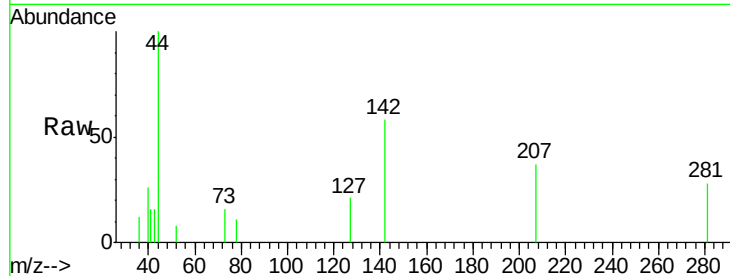




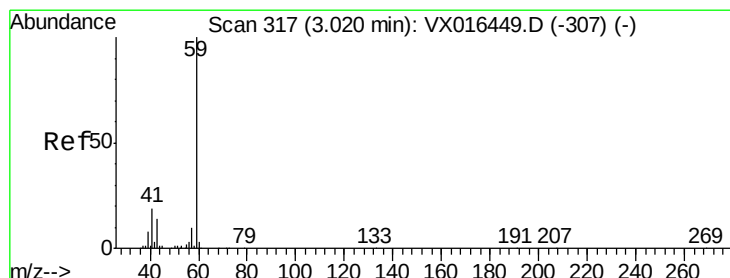
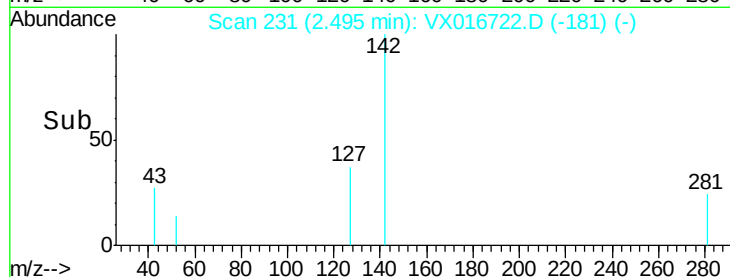
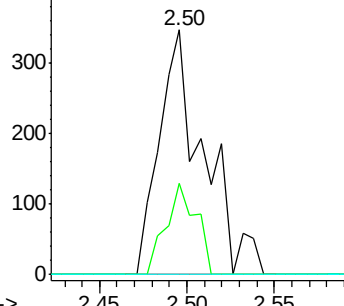
#10
Methyl Iodide
Concen: 3.289 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX016722.D
Acq: 12 Jun 2020 12:54

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 613
Ion Ratio Lower Upper
142 100
127 25.0 35.3 52.9#
141 0.0 11.4 17.2#

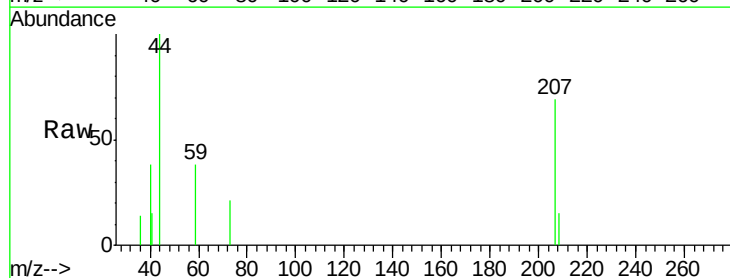


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

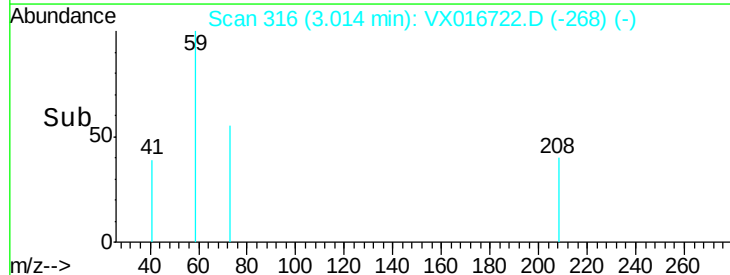
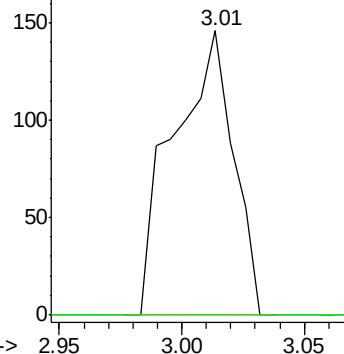


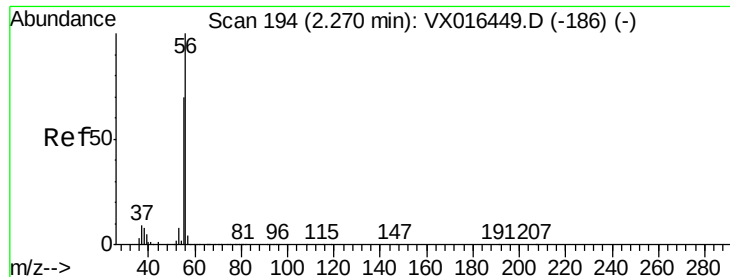
#11
Tert butyl alcohol
Concen: 0.343 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016722.D
Acq: 12 Jun 2020 12:54

Tgt Ion: 59 Resp: 248
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.132 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

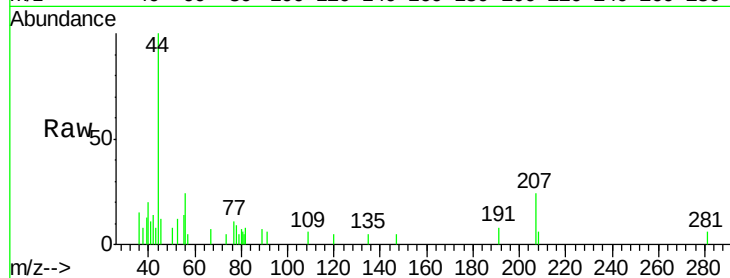
ClientSampled :

Tot Ion: 56 Resp: 348

Ion Ratio Lower Upper

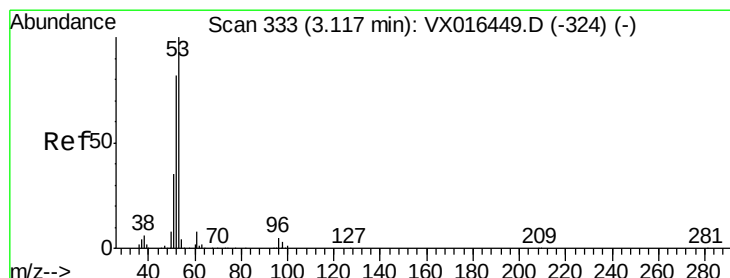
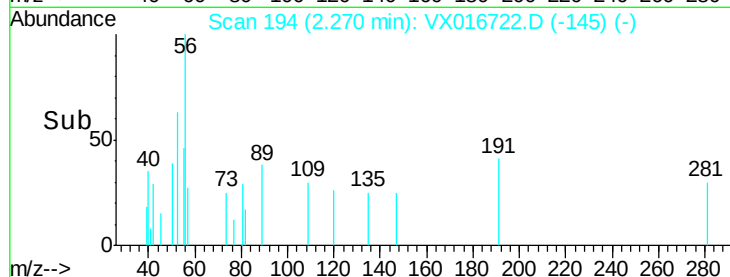
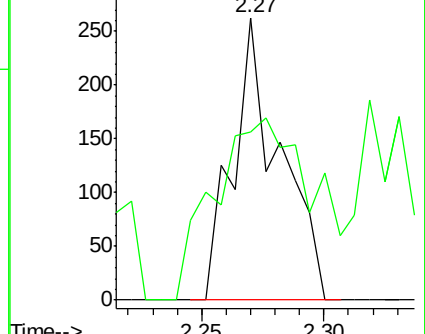
56 100

55 135.3 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.370 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

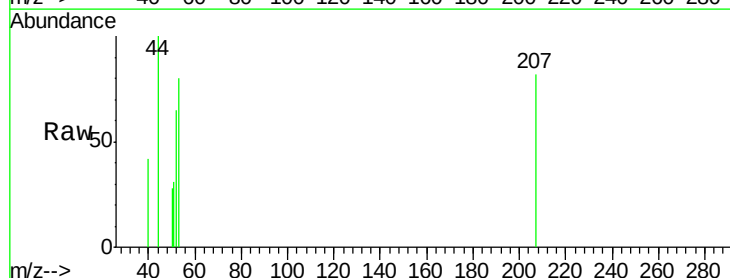
Tgt Ion: 53 Resp: 548

Ion Ratio Lower Upper

53 100

52 109.7 66.7 100.1#

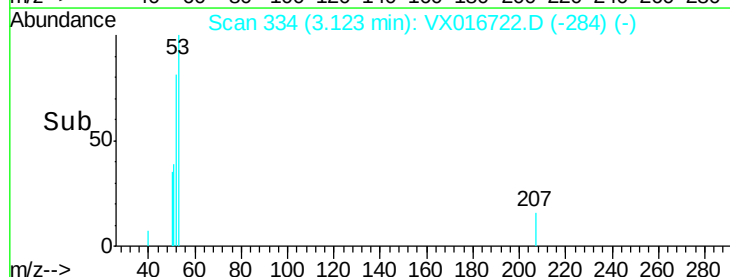
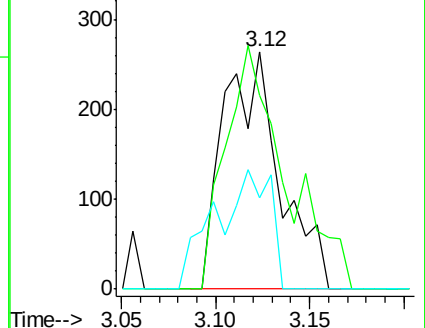
51 49.1 28.6 43.0#

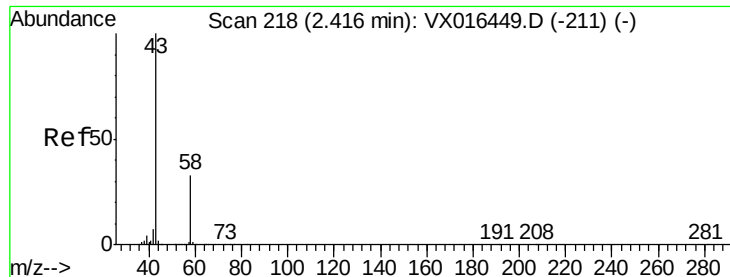


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.080 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

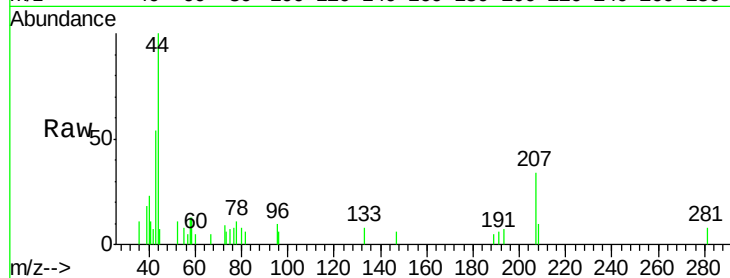
ClientSampled :

Tot Ion: 43 Resp: 1333

Ion Ratio Lower Upper

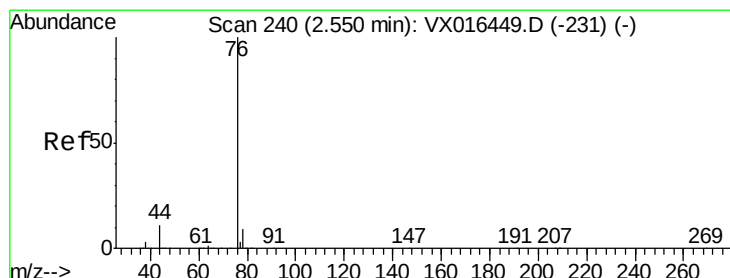
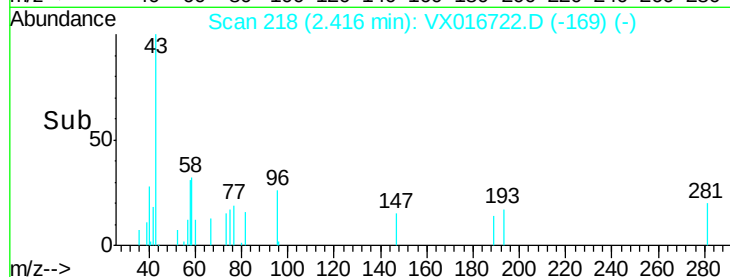
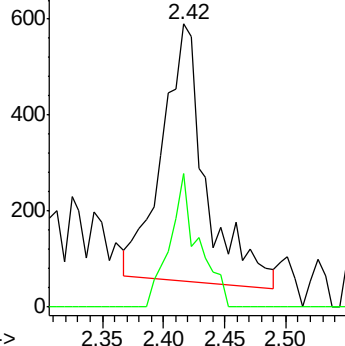
43 100

58 54.3 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.363 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX016722.D

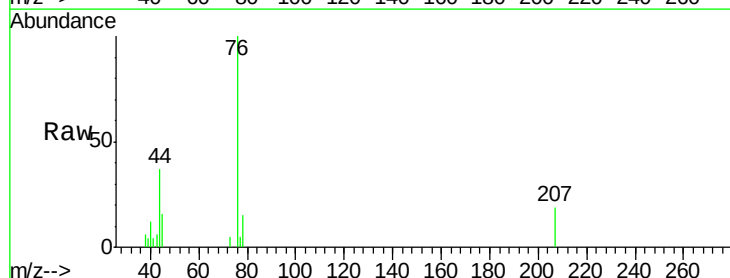
Acq: 12 Jun 2020 12:54

Tgt Ion: 76 Resp: 2351

Ion Ratio Lower Upper

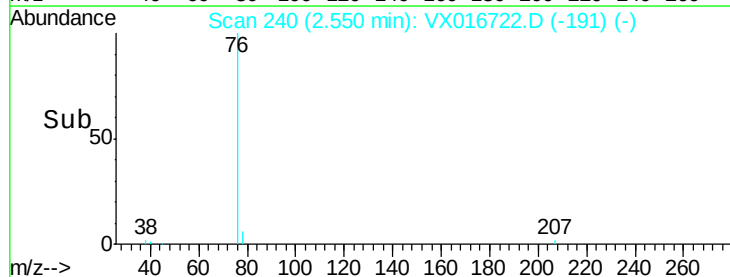
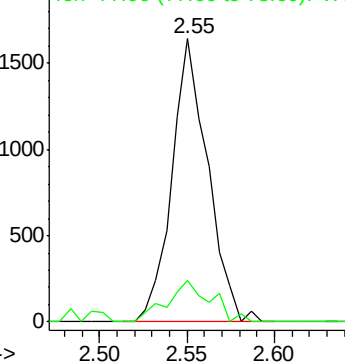
76 100

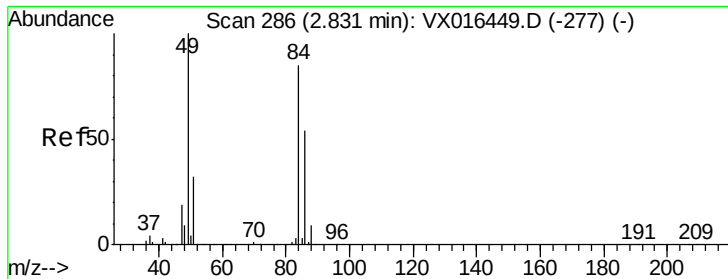
78 14.8 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

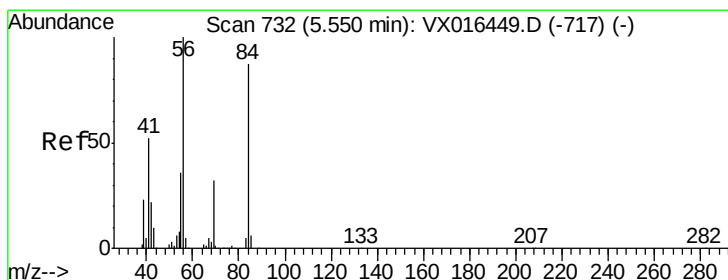
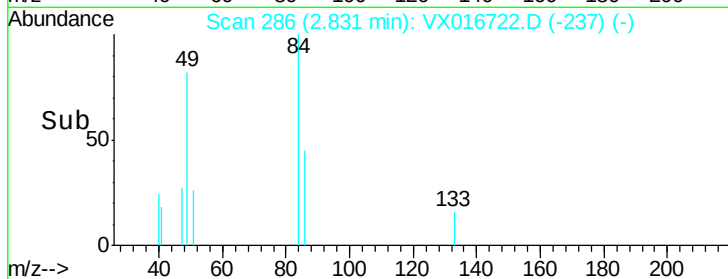
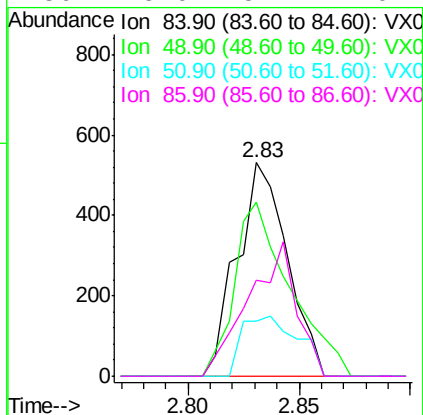
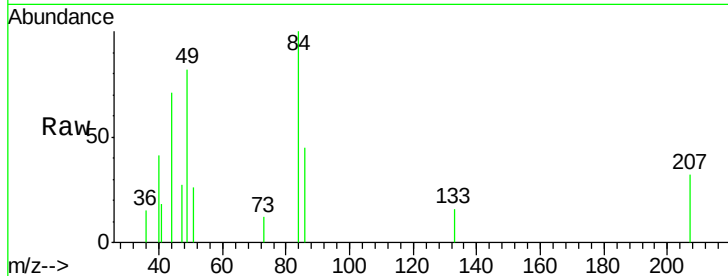




#20
Methvlene Chloride
Concen: 0.326 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX016722.D
Acq: 12 Jun 2020 12:54

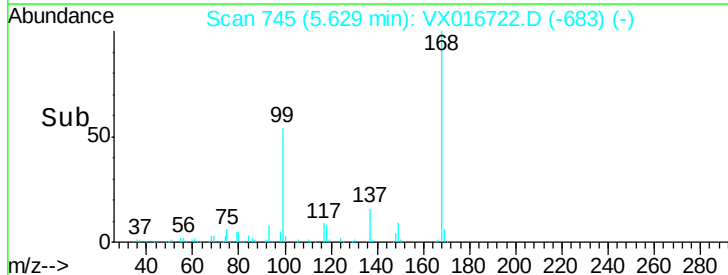
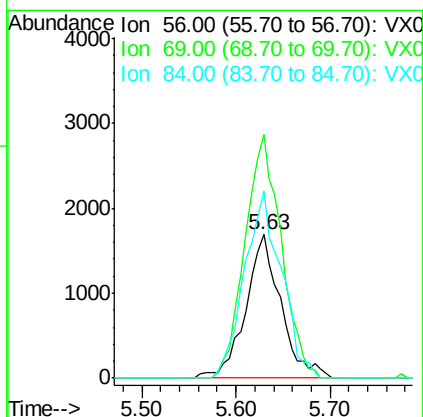
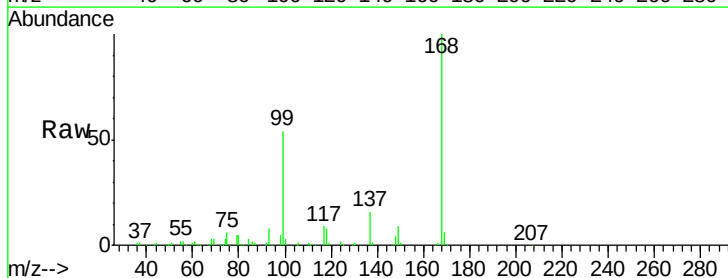
Instrument :
MSVOA_X
ClientSampleId :

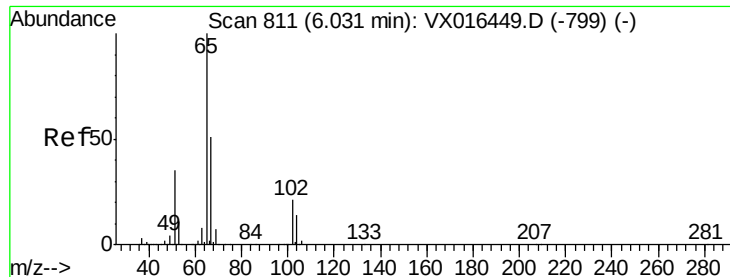
Tot Ion: 84 Resp: 833
Ion Ratio Lower Upper
84 100
49 81.5 94.5 141.7#
51 25.8 30.2 45.4#
86 45.0 51.1 76.7#



#31
Cyclohexane
Concen: 1.127 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016722.D
Acq: 12 Jun 2020 12:54

Tgt Ion: 56 Resp: 4415
Ion Ratio Lower Upper
56 100
69 169.8 25.7 38.5#
84 130.7 70.0 105.0#

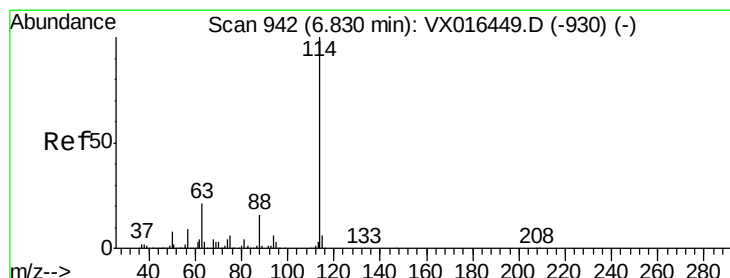
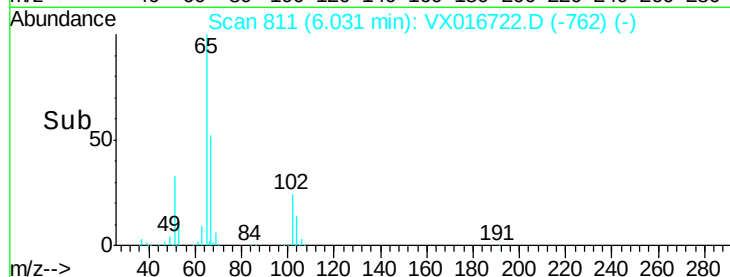
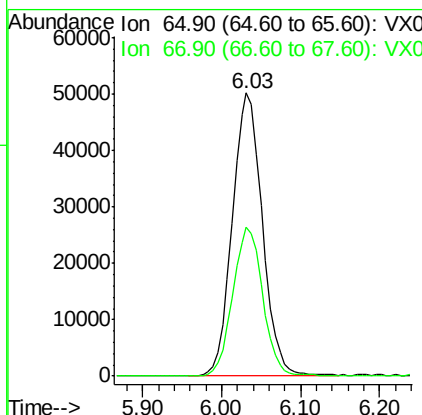
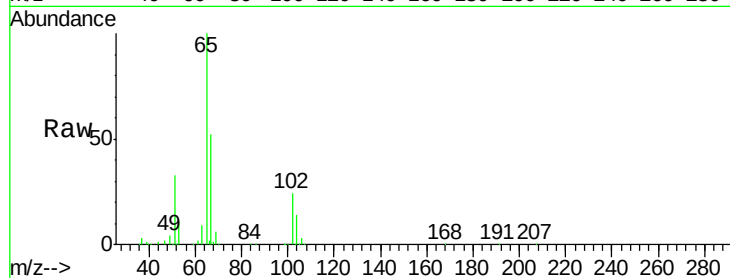




#33
 1,2-Dichloroethane-d4
 Concen: 47.231 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016722.D
 Acq: 12 Jun 2020 12:54

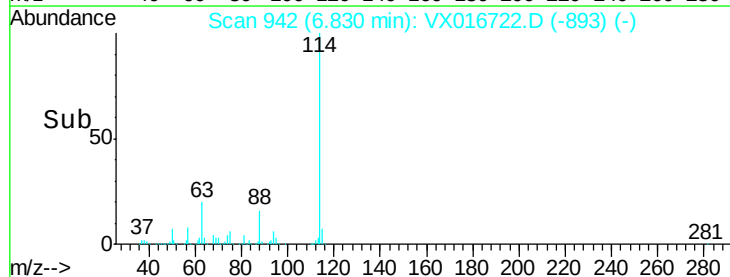
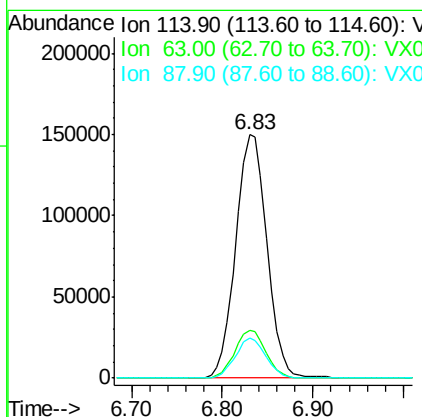
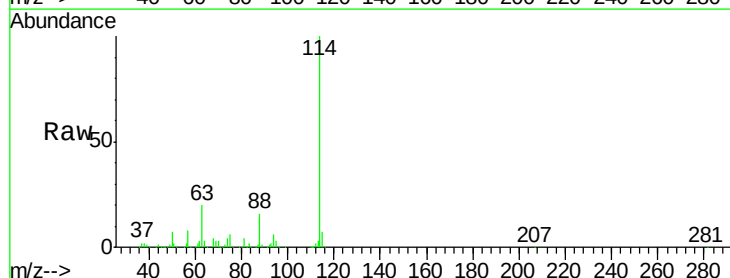
Instrument :
 MSVOA_X
 ClientSampleId :

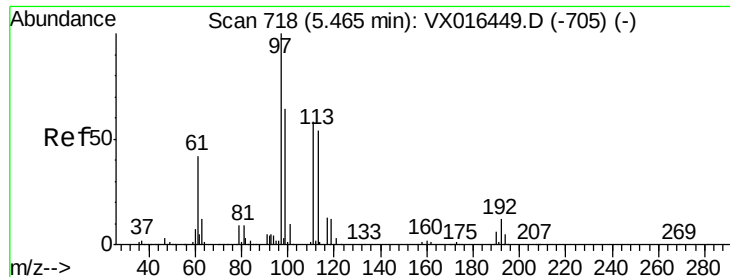
Tot Ion: 65 Resp: 133077
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016722.D
 Acq: 12 Jun 2020 12:54

Tgt Ion: 114 Resp: 358915
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.6
 88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.519 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

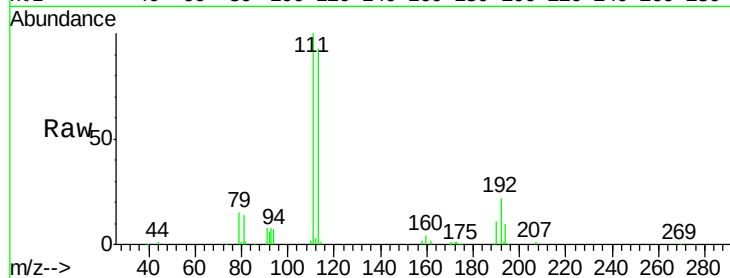
Tot Ion:113 Resp: 111648

Ion Ratio Lower Upper

113 100

111 102.9 83.0 124.6

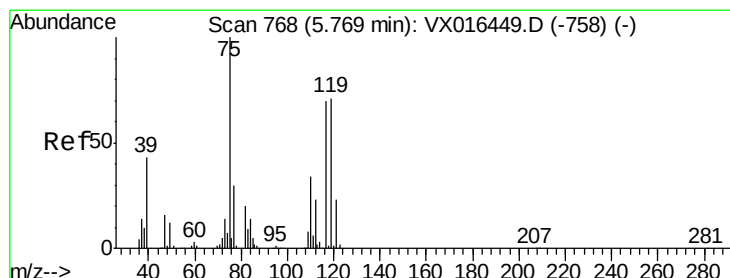
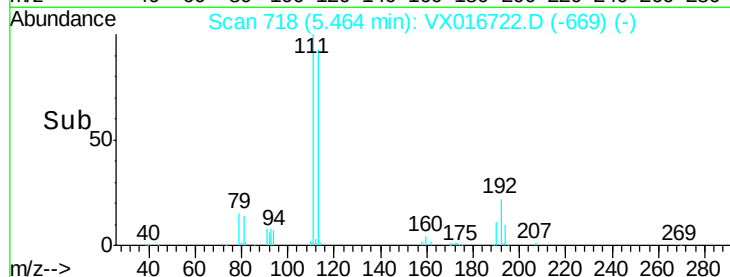
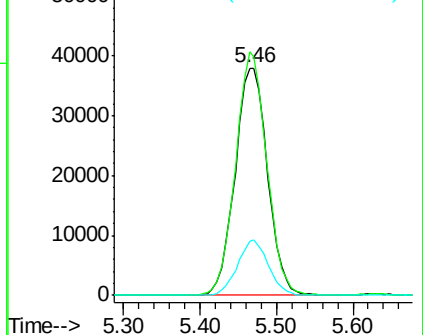
192 23.3 17.7 26.5



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: 4.466 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

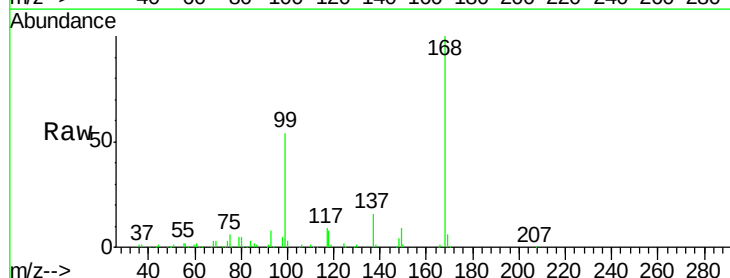
Tgt Ion: 75 Resp: 15178

Ion Ratio Lower Upper

75 100

110 9.7 17.4 52.3#

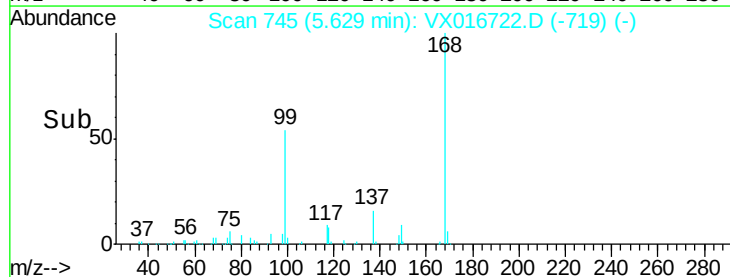
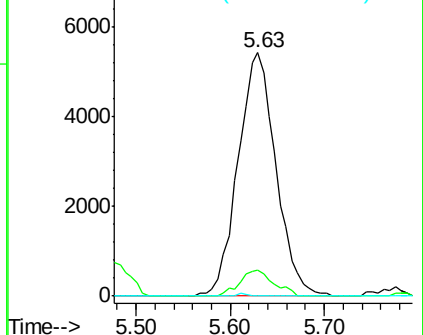
77 0.3 24.2 36.4#

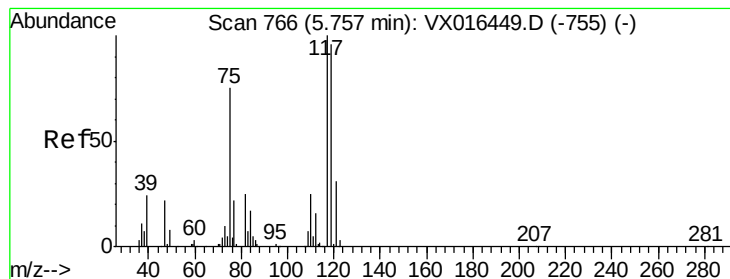


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.062 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

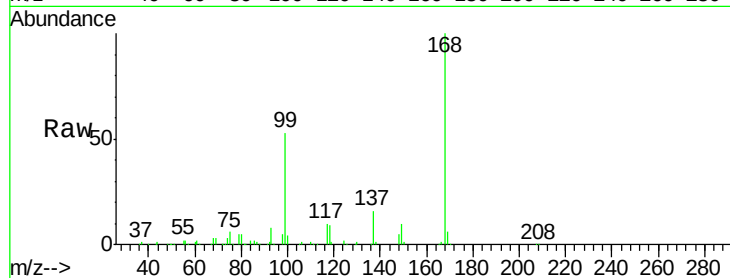
Tot Ion:117 Resp: 21650

Ion Ratio Lower Upper

117 100

119 6.8 76.3 114.5#

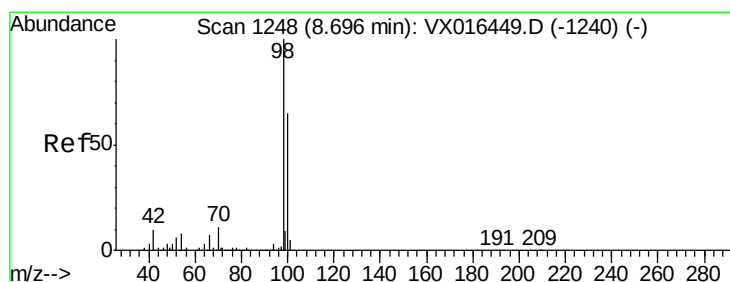
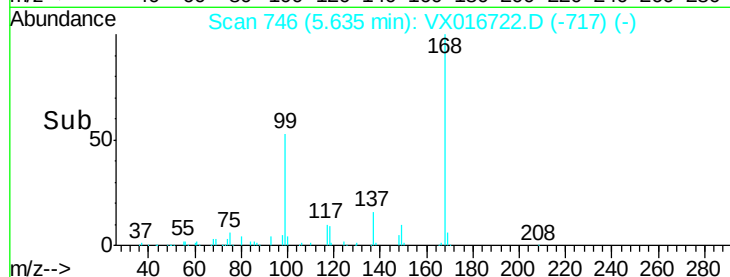
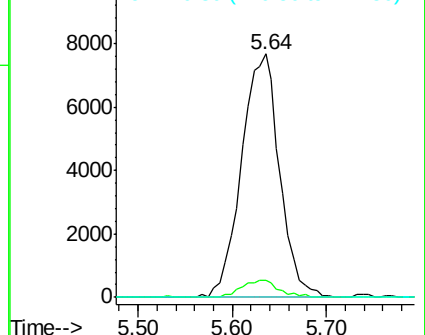
121 0.0 24.6 37.0#



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: 50.854 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016722.D

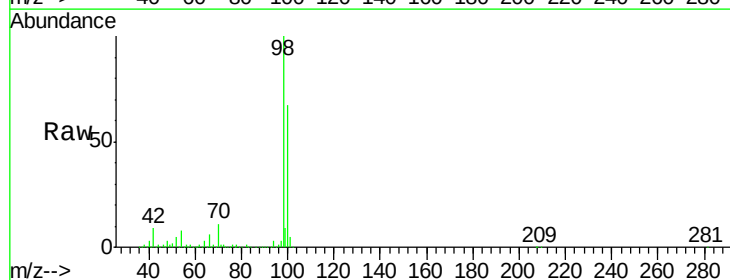
Acq: 12 Jun 2020 12:54

Tgt Ion: 98 Resp: 437432

Ion Ratio Lower Upper

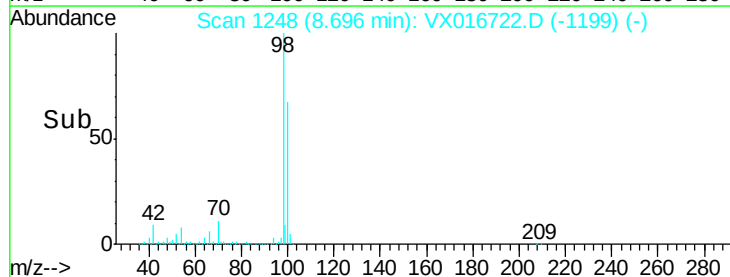
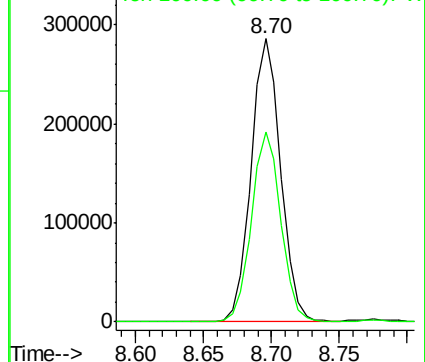
98 100

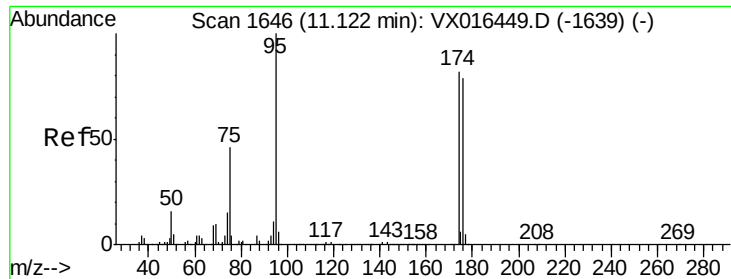
100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 51.789 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

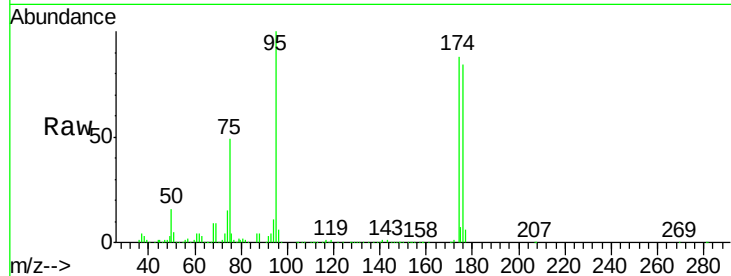
Tot Ion: 95 Resp: 172133

Ion Ratio Lower Upper

95 100

174 88.1 0.0 163.0

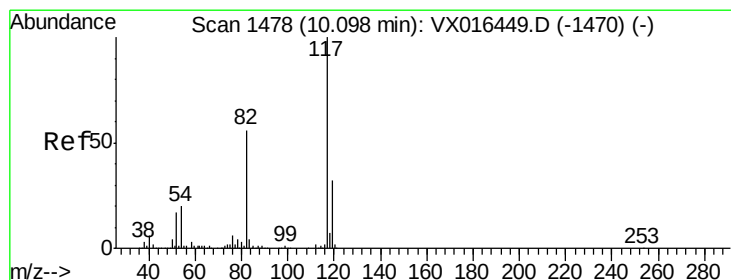
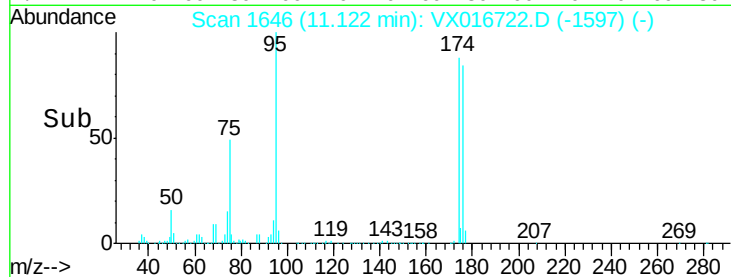
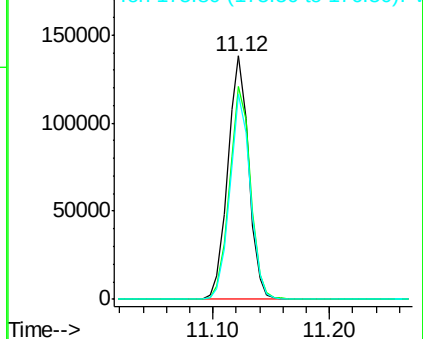
176 82.6 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016449.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016449.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016449.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

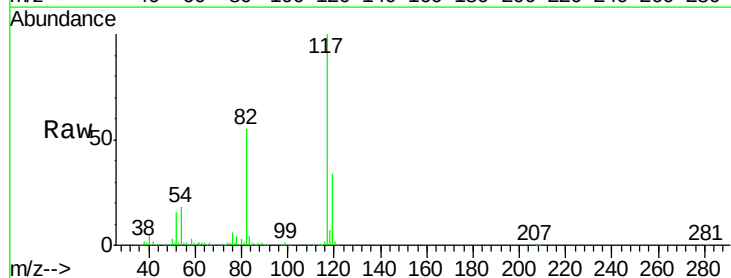
Tgt Ion: 117 Resp: 356964

Ion Ratio Lower Upper

117 100

82 54.8 45.0 67.6

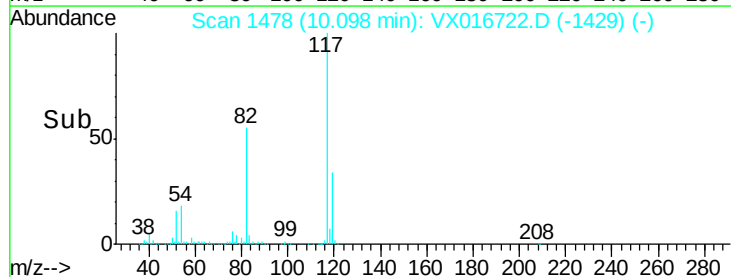
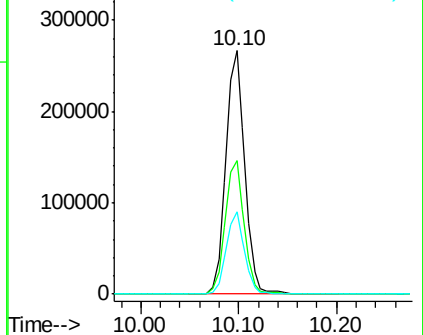
119 33.7 25.8 38.8

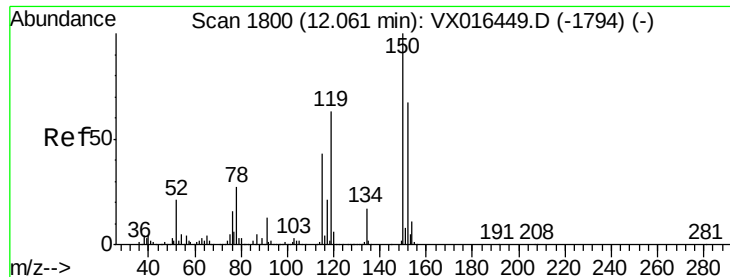


Abundance Ion 116.90 (116.60 to 117.60): VX016449.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016449.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016449.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

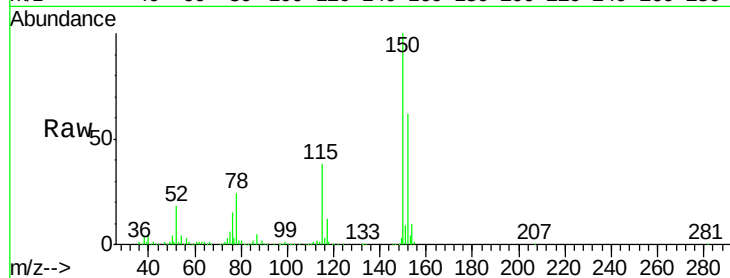
Tot Ion:152 Resp: 178424

Ion Ratio Lower Upper

152 100

115 58.3 39.9 119.6

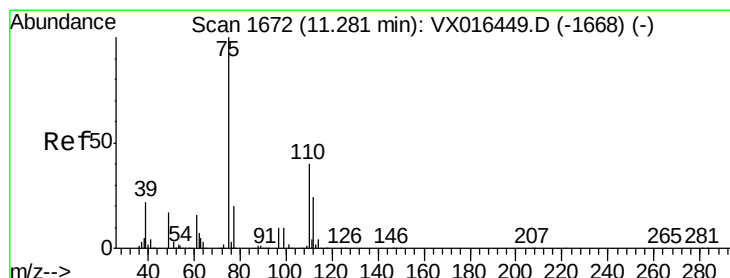
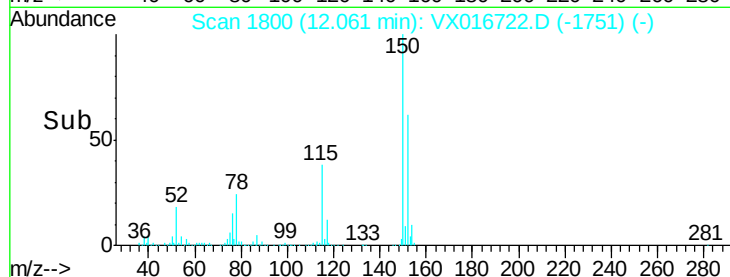
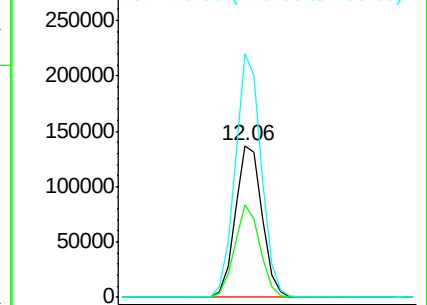
150 156.4 0.0 341.0



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: 21.406 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016722.D

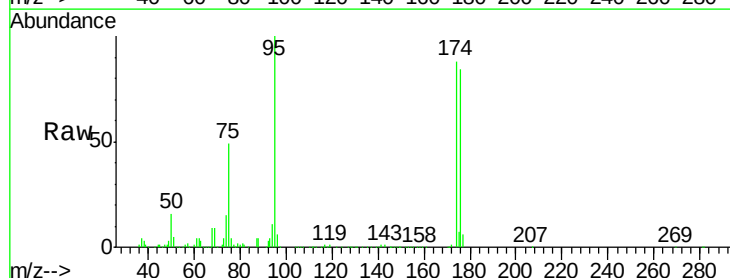
Acq: 12 Jun 2020 12:54

Tgt Ion: 75 Resp: 83953

Ion Ratio Lower Upper

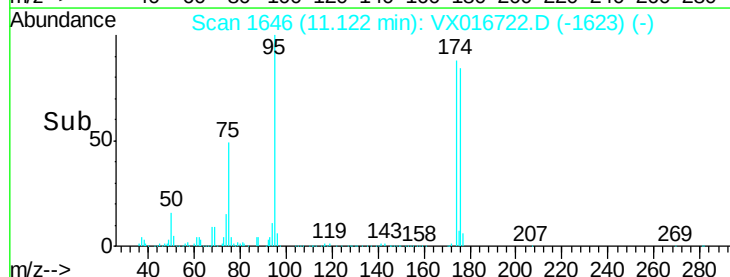
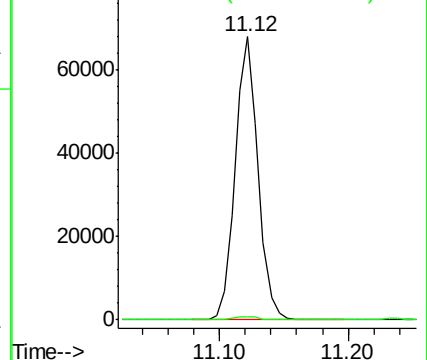
75 100

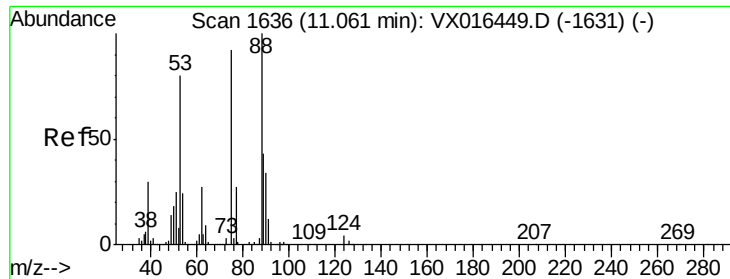
77 1.3 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

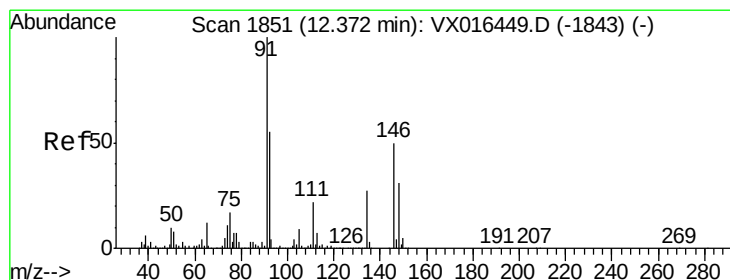
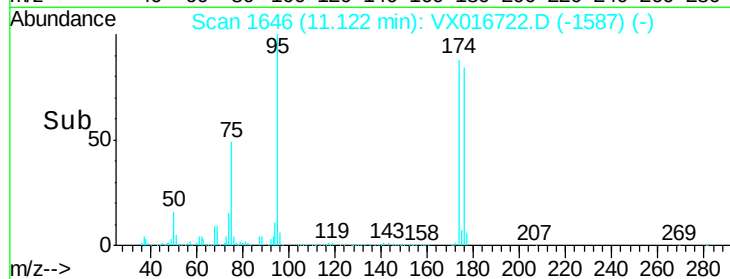
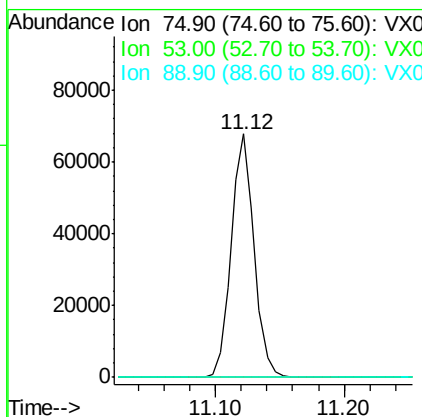
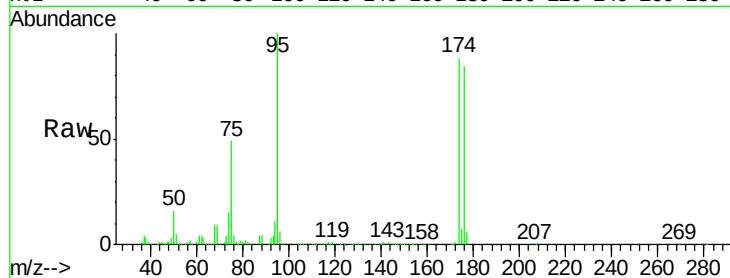




#81
trans-1,4-Dichloro-2-butene
Concen: 52.657 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016722.D
Acq: 12 Jun 2020 12:54

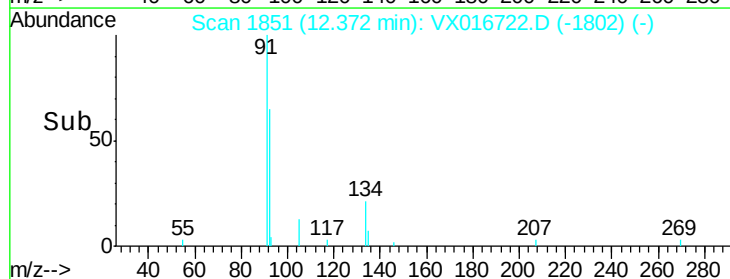
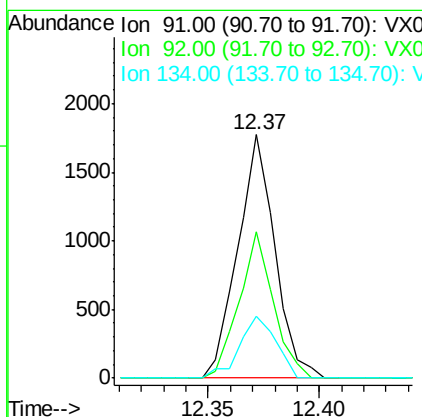
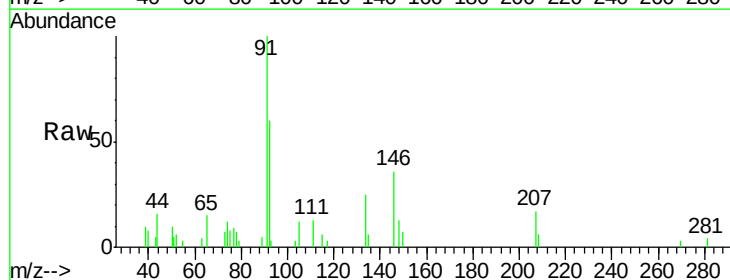
Instrument :
MSVOA_X
ClientSampled :

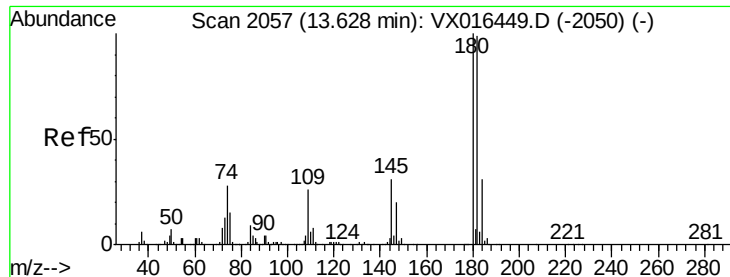
Tot Ion: 75 Resp: 83953
Ion Ratio Lower Upper
75 100
53 0.1 71.3 106.9#
89 0.0 36.6 55.0#



#89
n-Butylbenzene
Concen: 0.238 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX016722.D
Acq: 12 Jun 2020 12:54

Tgt Ion: 91 Resp: 2056
Ion Ratio Lower Upper
91 100
92 56.0 27.2 81.5
134 24.9 13.1 39.3

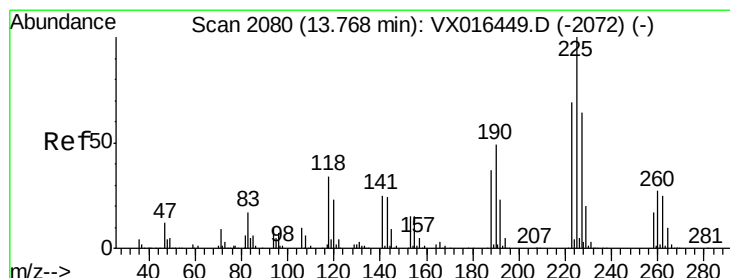
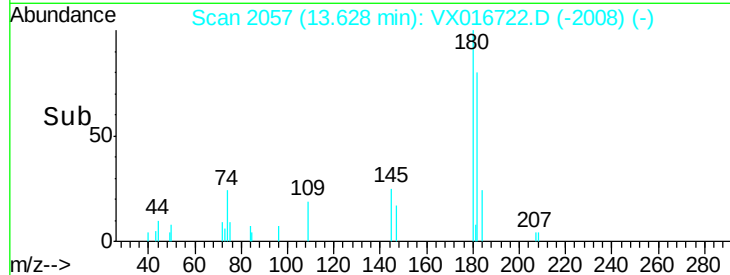
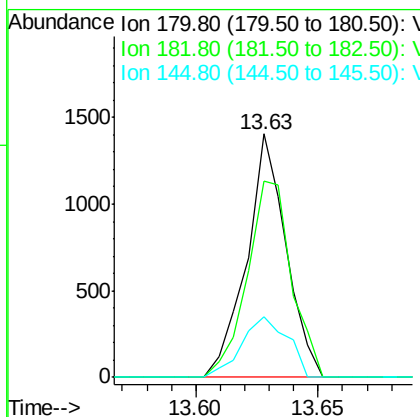
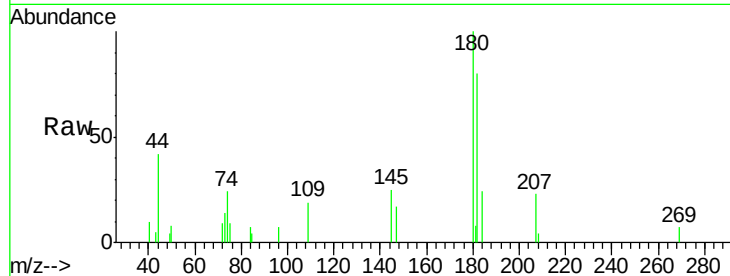




#93
 1,2,4-Trichlorobenzene
 Concen: 0.438 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX016722.D
 Acq: 12 Jun 2020 12:54

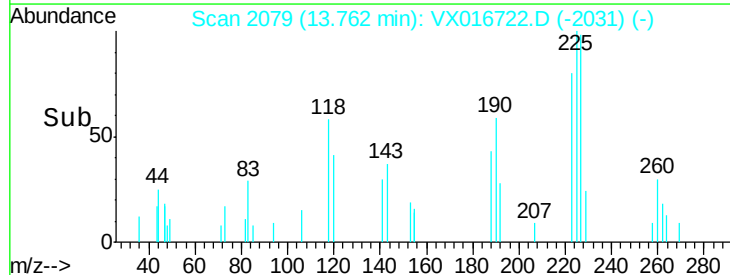
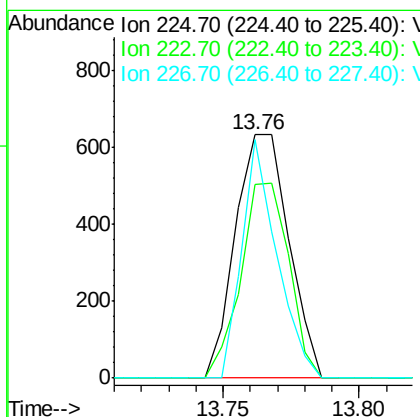
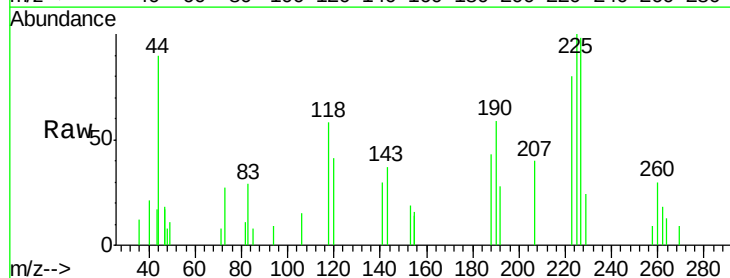
Instrument :
 MSVOA_X
 ClientSampleId :

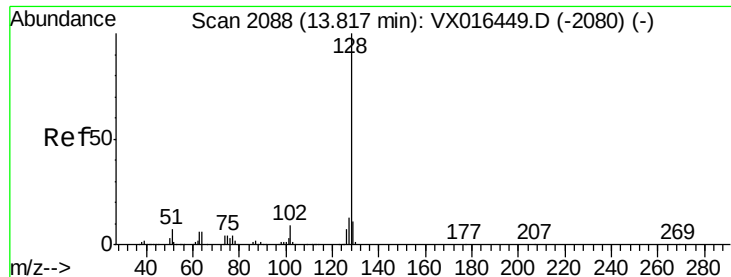
Tot Ion:180 Resp: 1582
 Ion Ratio Lower Upper
 180 100
 182 90.2 48.3 144.8
 145 28.6 15.4 46.2



#94
 Hexachlorobutadiene
 Concen: 0.607 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX016722.D
 Acq: 12 Jun 2020 12:54

Tgt Ion:225 Resp: 862
 Ion Ratio Lower Upper
 225 100
 223 72.2 32.3 96.8
 227 63.9 31.6 94.7





#95

Naphthalene

Concen: 0.269 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

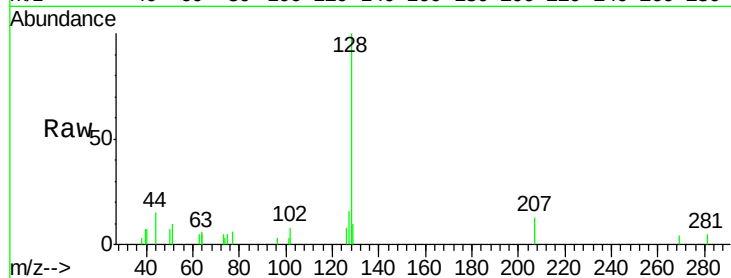
Tot Ion:128 Resp: 3332

Ion Ratio Lower Upper

128 100

127 14.1 10.6 15.8

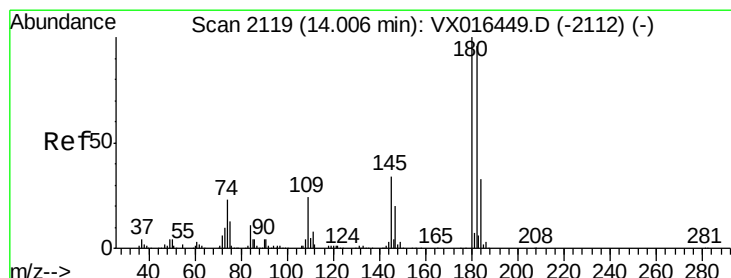
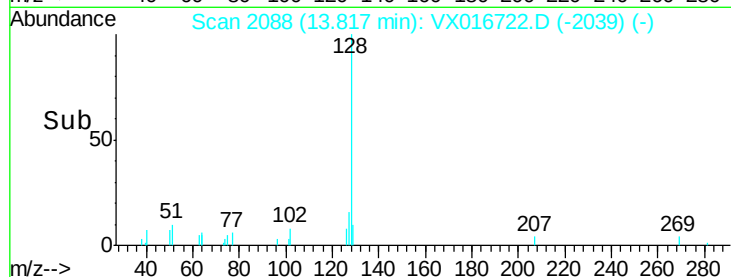
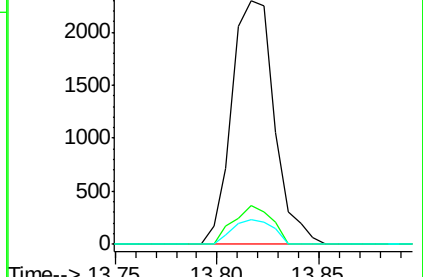
129 9.6 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 0.389 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VX016722.D

Acq: 12 Jun 2020 12:54

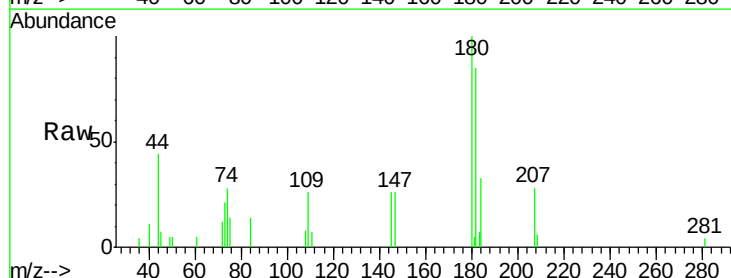
Tgt Ion:180 Resp: 1379

Ion Ratio Lower Upper

180 100

182 93.8 48.6 145.8

145 33.8 16.6 49.8



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

