

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016319.D
 Acq On : 18 May 2020 23:21
 Operator : JC/SP
 Sample : L2672-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 00:57:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	257109	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	427178	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	422155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214829	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	152226	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	
35) Dibromofluoromethane	5.47	113	123772	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	
50) Toluene-d8	8.70	98	529856	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.12	95	213314	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	

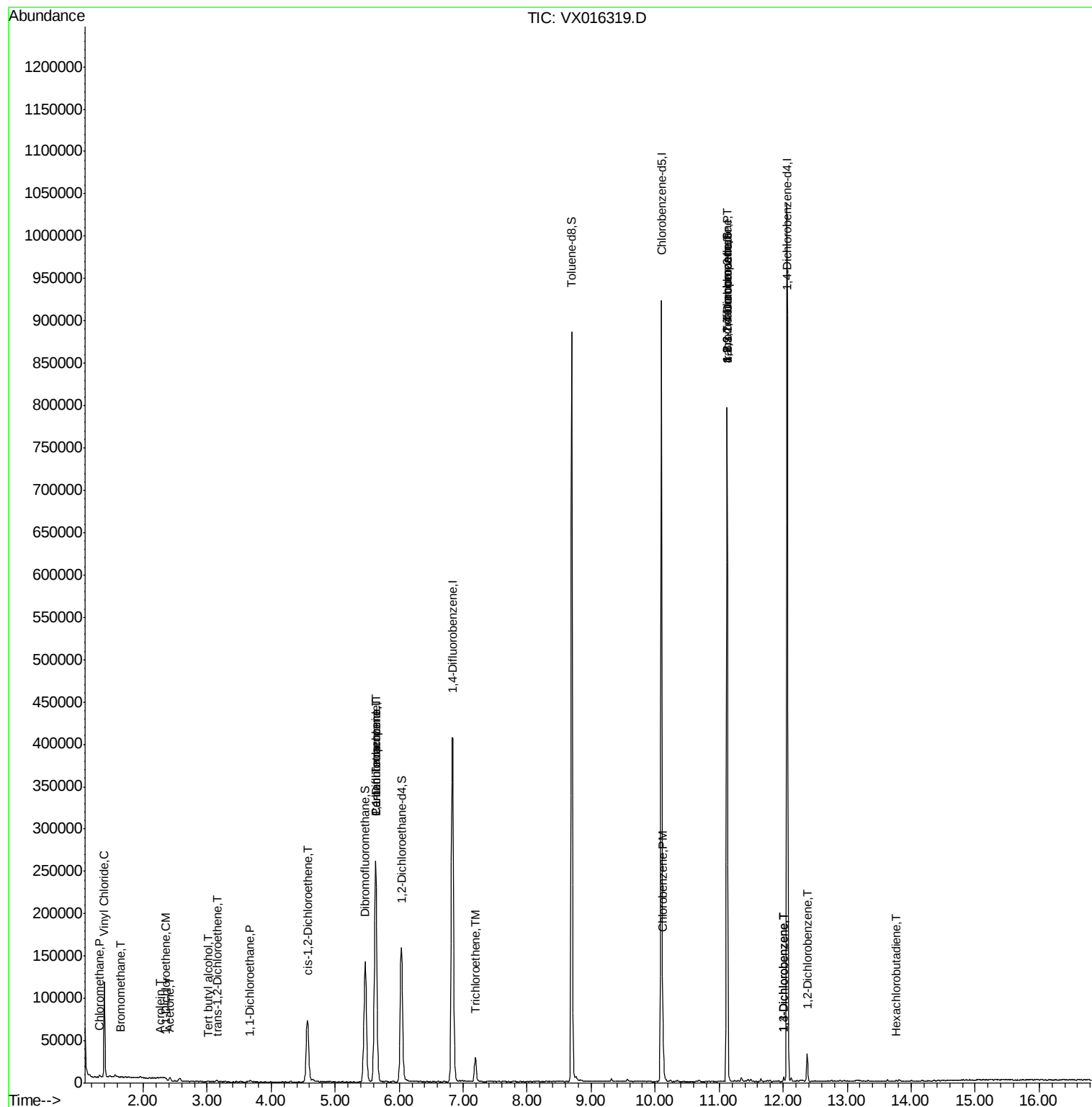
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1235	0.391	ug/l	95
4) Vinyl Chloride	1.39	62	67050	19.885	ug/l	99
5) Bromomethane	1.64	94	442	0.260	ug/l	91
11) Tert butyl alcohol	3.01	59	391	0.457	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	588	0.220	ug/l #	71
13) Acrolein	2.26	56	425	0.794	ug/l #	39
16) Acetone	2.42	43	4731	3.134	ug/l	99
17) Carbon Disulfide	2.56	76	1571	Below Cal		95
21) trans-1,2-Dichloroethene	3.15	96	893	0.300	ug/l #	38
24) 1,1-Dichloroethane	3.67	63	1622	0.314	ug/l #	82
27) cis-1,2-Dichloroethene	4.57	96	50078	15.380	ug/l	85
36) 1,1-Dichloropropene	5.63	75	18321	4.357	ug/l #	50
38) Carbon Tetrachloride	5.63	117	24802	5.803	ug/l #	14
44) Trichloroethene	7.19	130	11069	2.532	ug/l	95
65) Chlorobenzene	10.12	112	20798	2.353	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.12	83	93	2.081	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	101647	20.851	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	101647	49.689	ug/l #	13
87) 1,3-Dichlorobenzene	12.01	146	1688	0.233	ug/l	95
88) 1,4-Dichlorobenzene	12.01	146	1688	0.230	ug/l	96
91) 1,2-Dichlorobenzene	12.38	146	10519	1.509	ug/l	98
94) Hexachlorobutadiene	13.77	225	238	0.629	ug/l	88

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

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Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

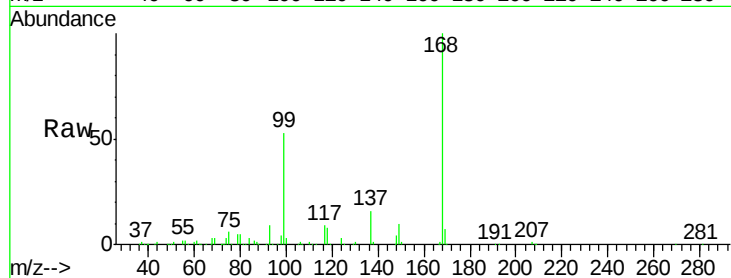
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 257109

Ion Ratio Lower Upper

168 100

99 53.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

40000

20000

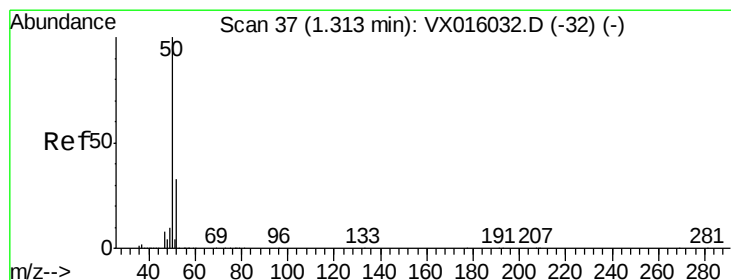
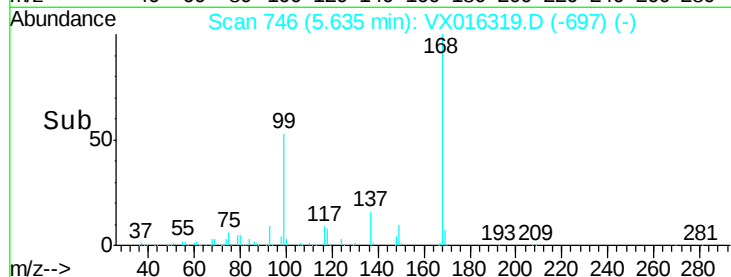
0

Time-->

5.50

5.60

5.70



#3

Chloromethane

Concen: 0.391 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016319.D

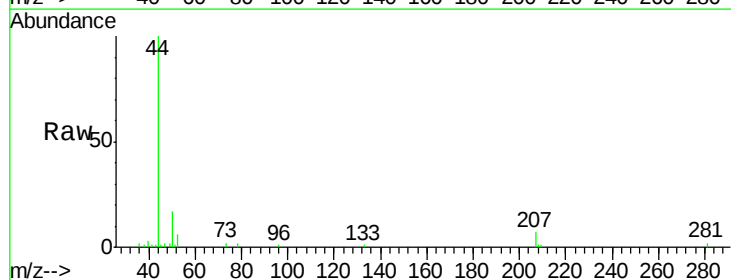
Acq: 18 May 2020 23:21

Tgt Ion: 50 Resp: 1235

Ion Ratio Lower Upper

50 100

52 35.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

400

200

0

Time-->

1.30

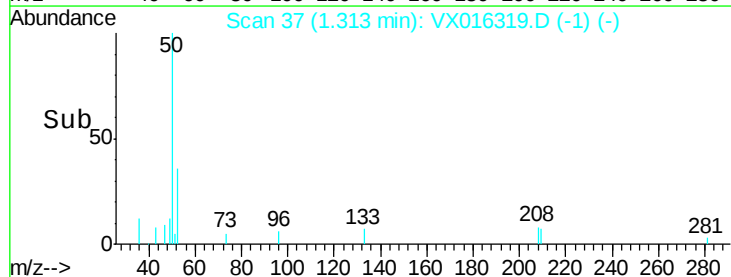
1.31

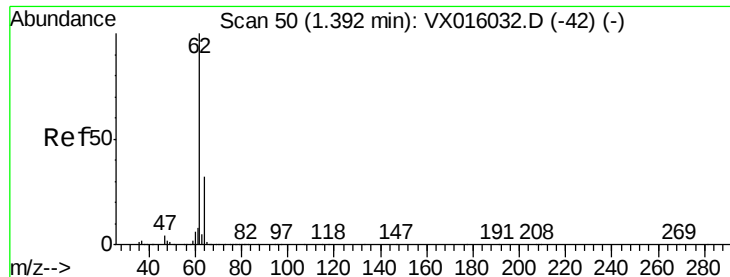
1.32

1.33

1.34

1.35





#4

Vinyl Chloride

Concen: 19.885 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

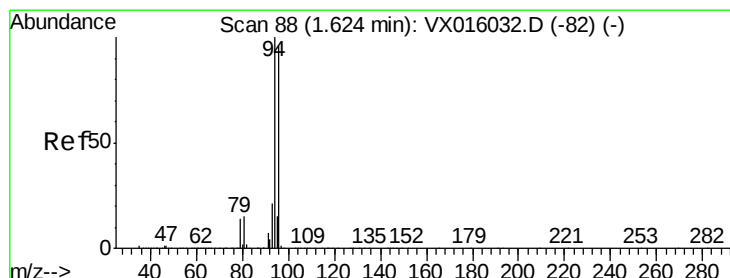
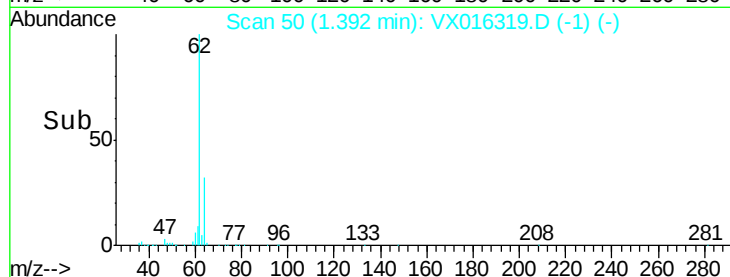
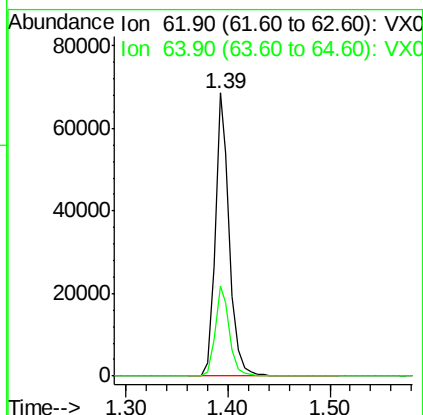
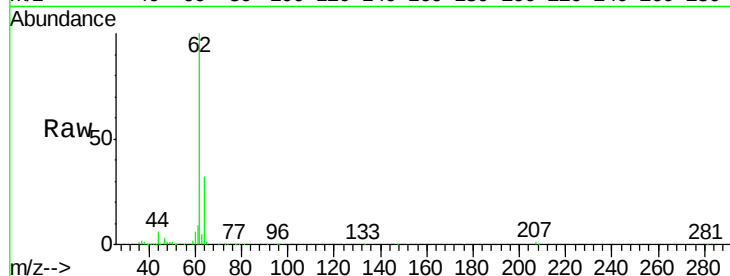
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 62 Resp: 67050

Ion Ratio Lower Upper

62 100

64 31.7 25.7 38.5



#5

Bromomethane

Concen: 0.260 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016319.D

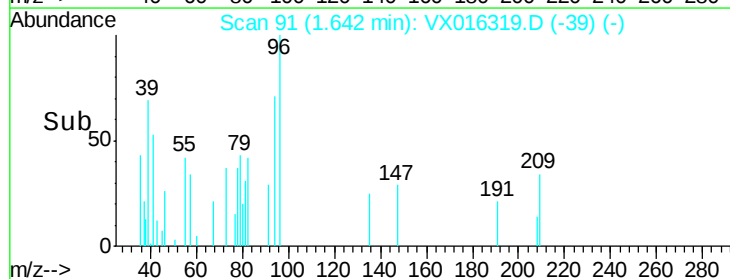
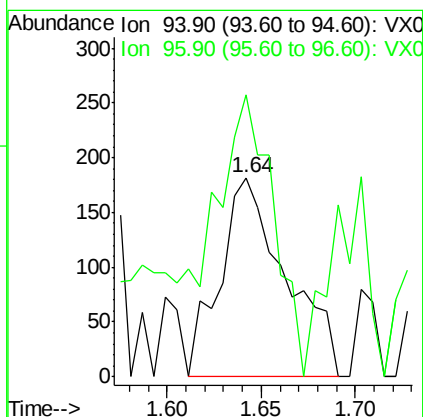
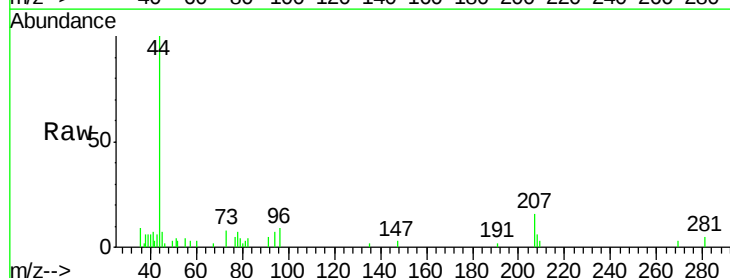
Acq: 18 May 2020 23:21

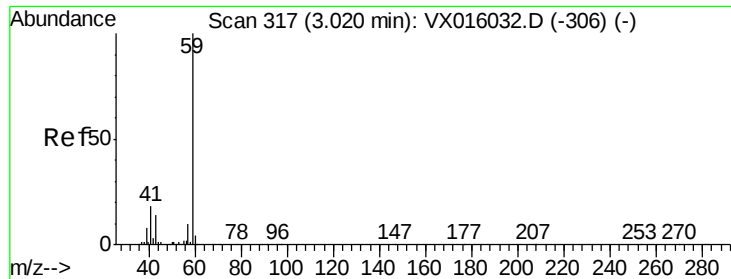
Tgt Ion: 94 Resp: 442

Ion Ratio Lower Upper

94 100

96 87.4 76.9 115.3



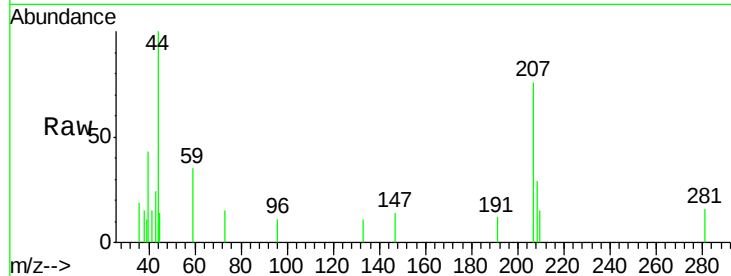


#11

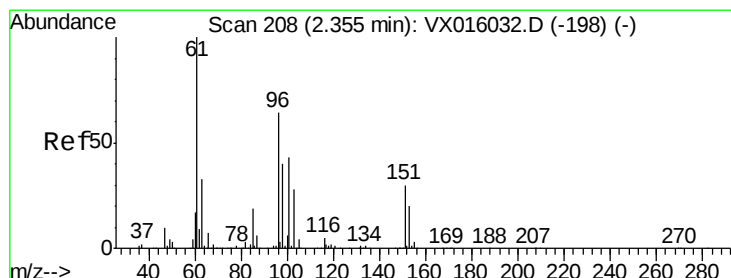
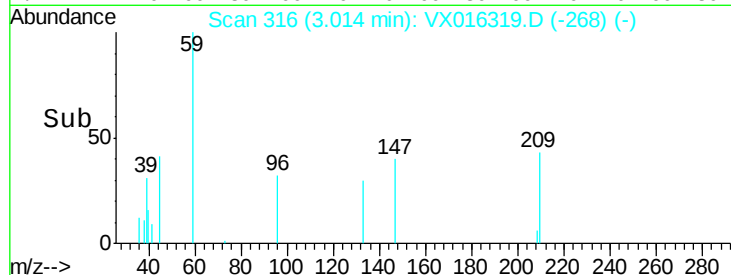
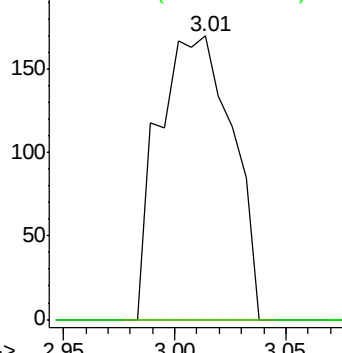
Tert butyl alcohol
Concen: 0.457 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX016319.D
Acq: 18 May 2020 23:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 59 Resp: 391
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



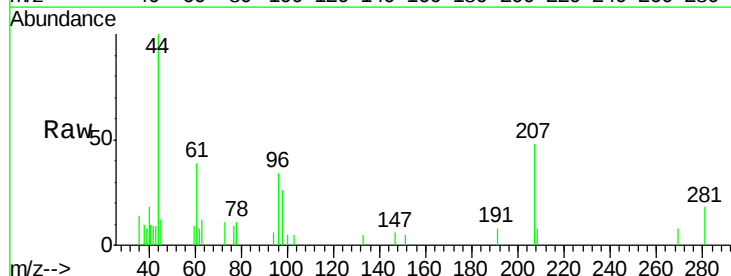
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



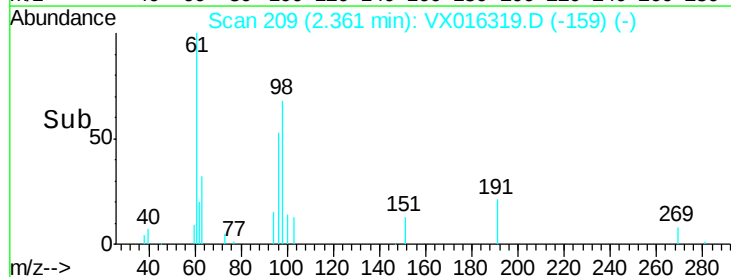
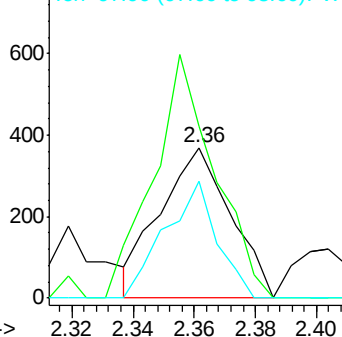
#12

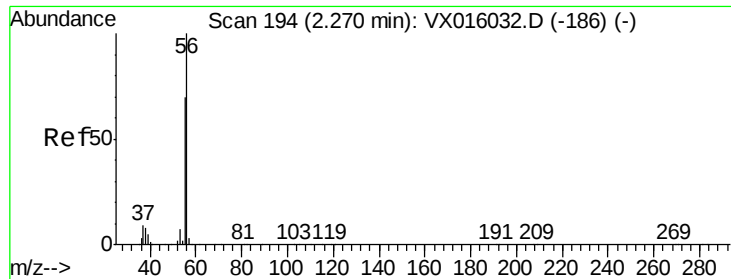
1,1-Dichloroethene
Concen: 0.220 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX016319.D
Acq: 18 May 2020 23:21

Tgt Ion: 96 Resp: 588
Ion Ratio Lower Upper
96 100
61 114.1 124.8 187.2#
98 77.3 49.7 74.5#



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





#13

Acrolein

Concen: 0.794 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

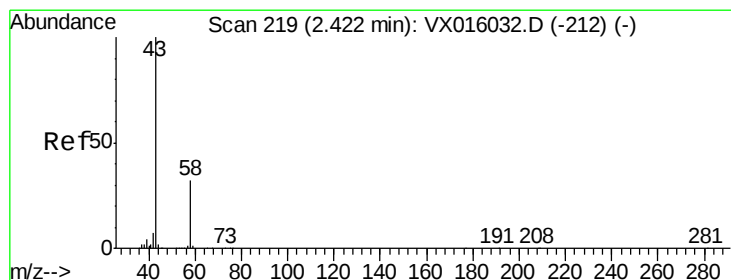
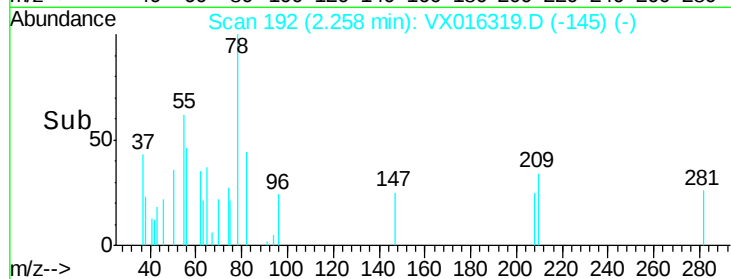
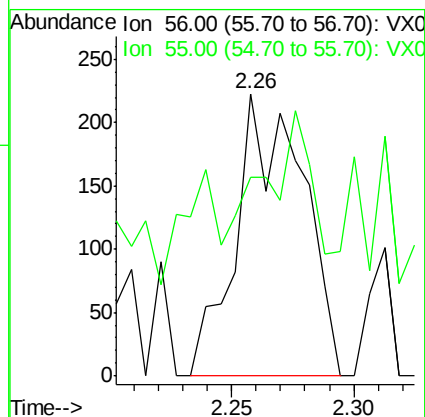
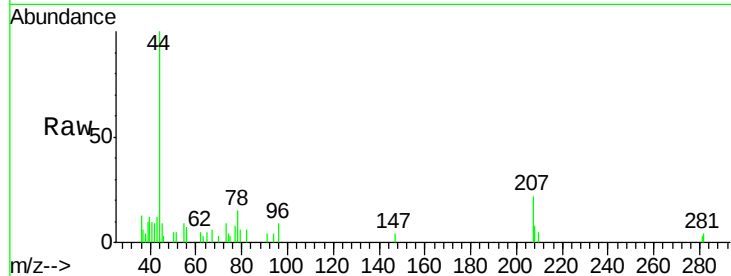
ClientSampleId :

Tot Ion: 56 Resp: 425

Ion Ratio Lower Upper

56 100

55 20.0 56.5 84.7#



#16

Acetone

Concen: 3.134 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016319.D

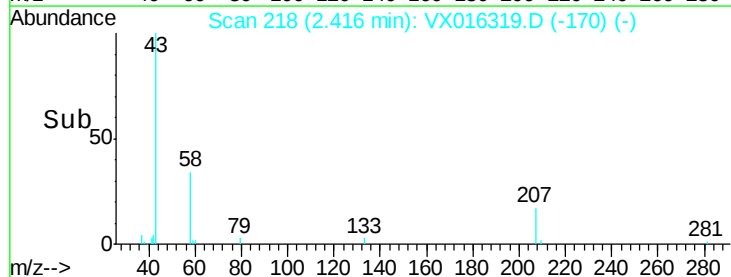
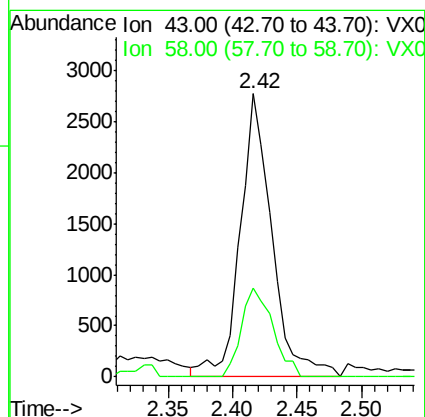
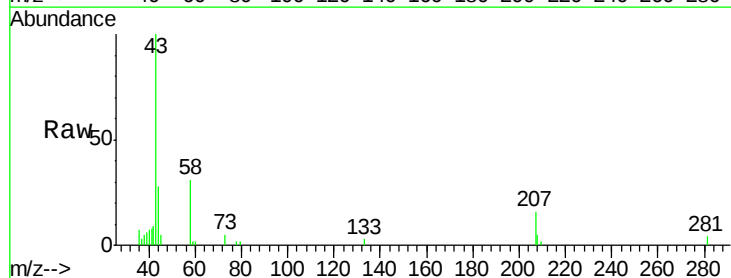
Acq: 18 May 2020 23:21

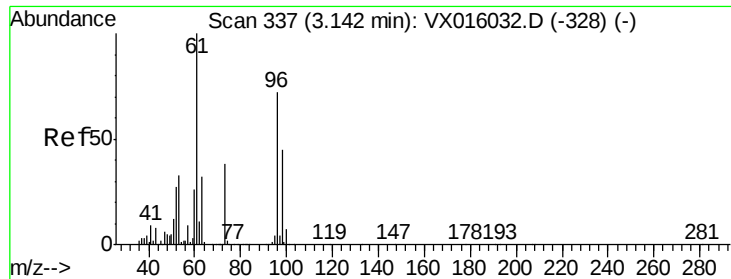
Tgt Ion: 43 Resp: 4731

Ion Ratio Lower Upper

43 100

58 31.3 25.4 38.0





#21

trans-1,2-Dichloroethene

Concen: 0.300 ug/l

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

ClientSampleId :

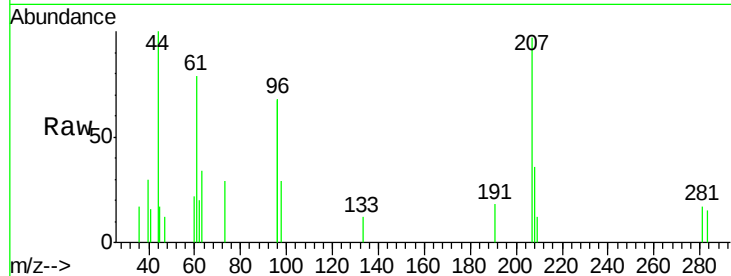
Tot Ion: 96 Resp: 893

Ion Ratio Lower Upper

96 100

61 58.2 111.2 166.8#

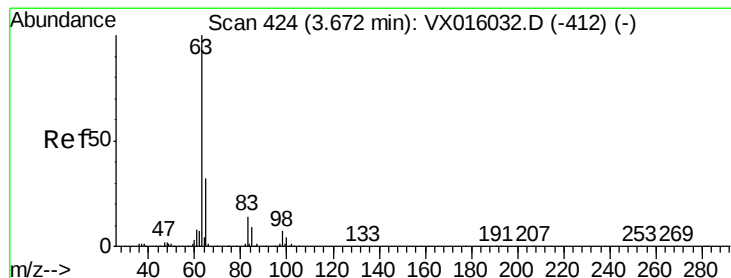
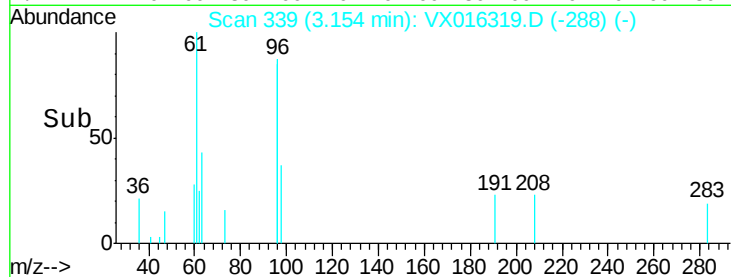
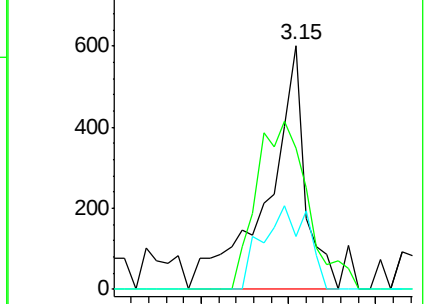
98 21.5 50.2 75.4#



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: 0.314 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

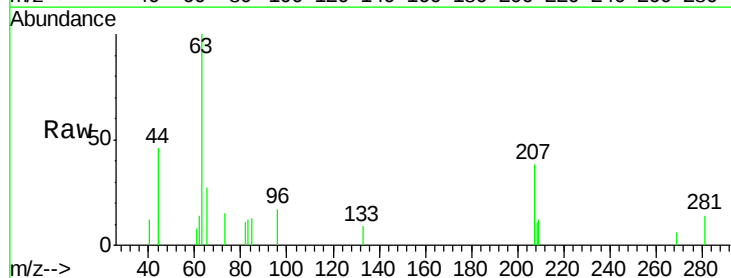
Tgt Ion: 63 Resp: 1622

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.5#

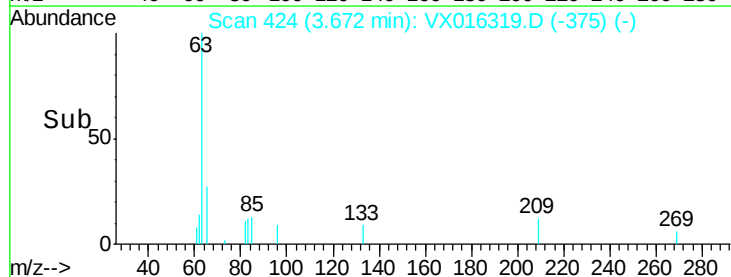
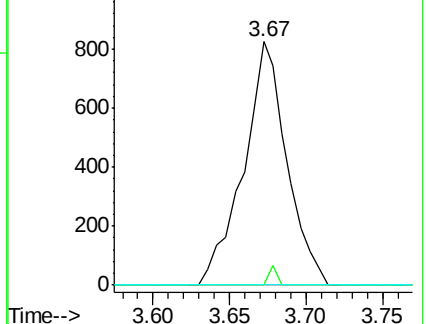
100 0.0 2.1 6.5#

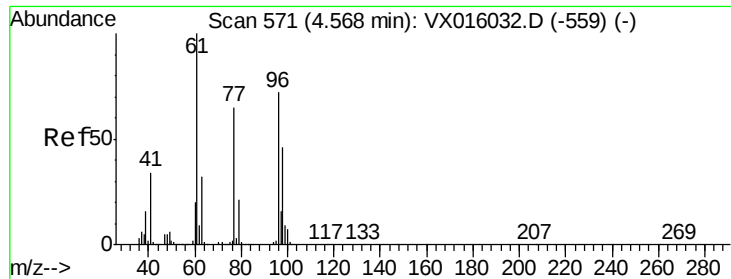


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



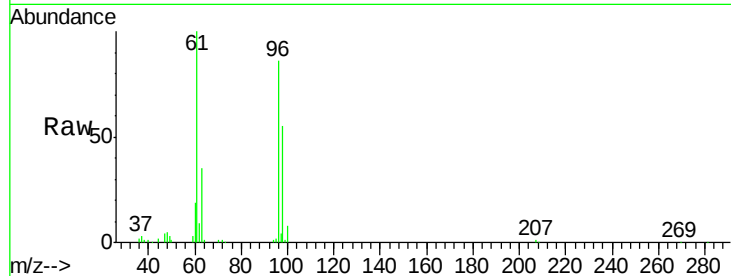


#27

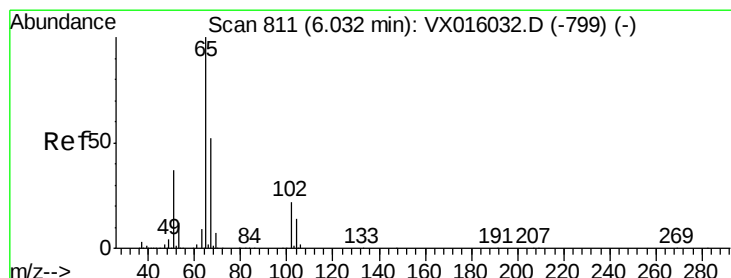
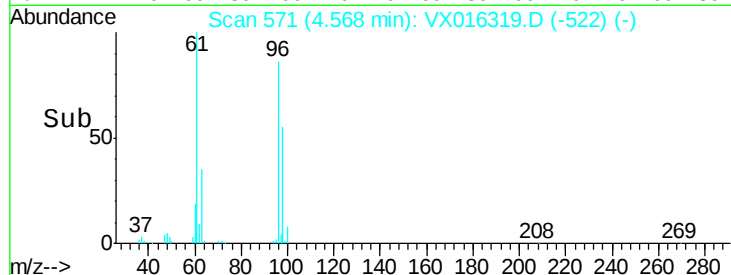
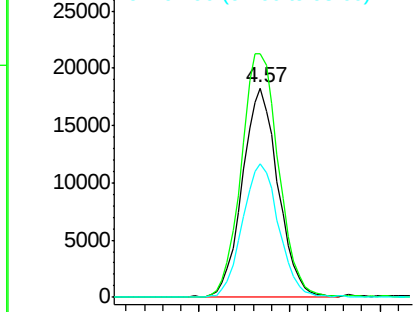
cis-1,2-Dichloroethene
Concen: 15.380 ug/l
RT: 4.57 min Scan# 571
Delta R.T. -0.00 min
Lab File: VX016319.D
Acq: 18 May 2020 23:21

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 50078
Ion Ratio Lower Upper
96 100
61 121.4 0.0 296.2
98 64.3 0.0 129.4



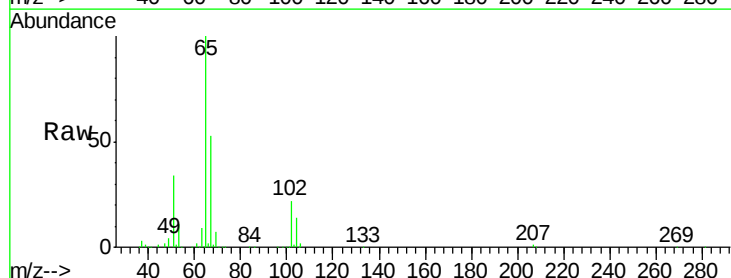
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



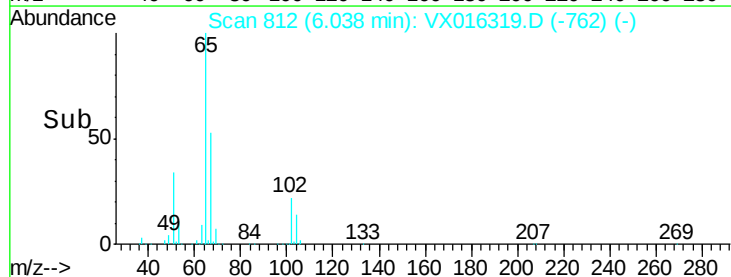
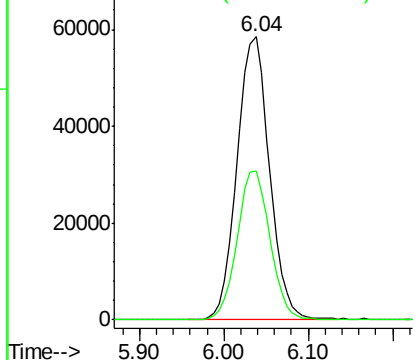
#33

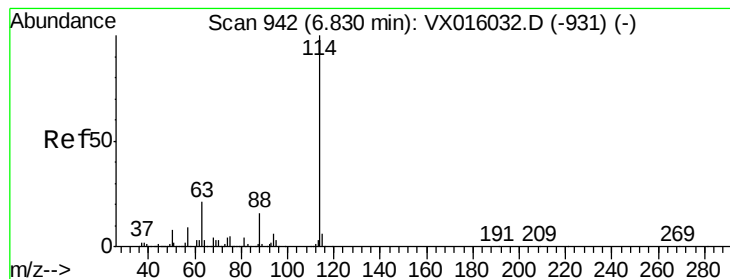
1,2-Dichloroethane-d4
Concen: 44.993 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016319.D
Acq: 18 May 2020 23:21

Tgt Ion: 65 Resp: 152226
Ion Ratio Lower Upper
65 100
67 53.6 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

ClientSampleId :

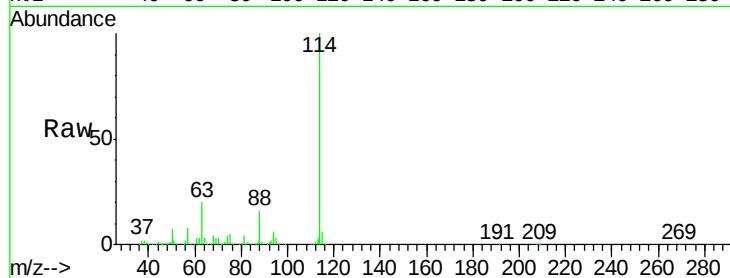
Tot Ion:114 Resp: 427178

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.8

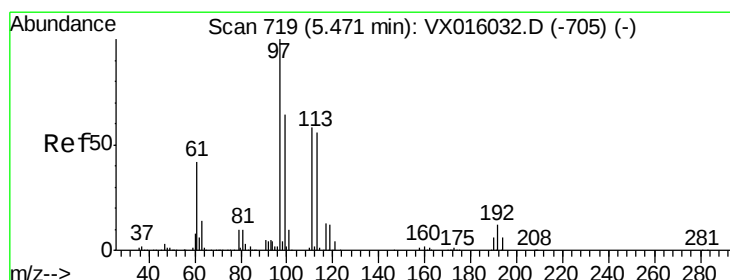
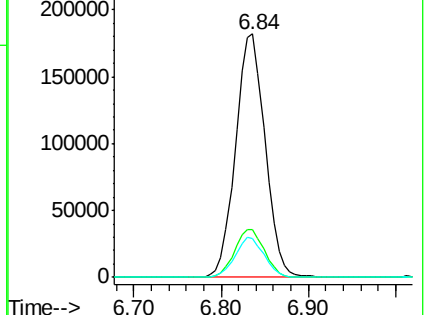
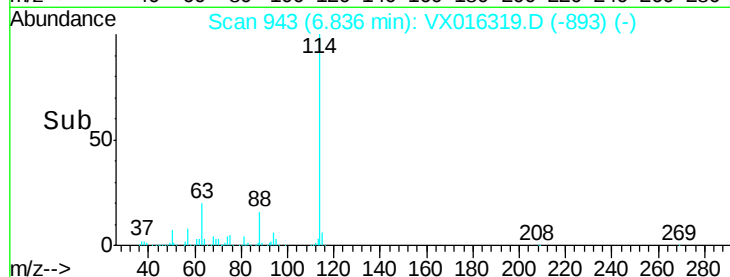
88 16.0 0.0 31.4



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: 45.734 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

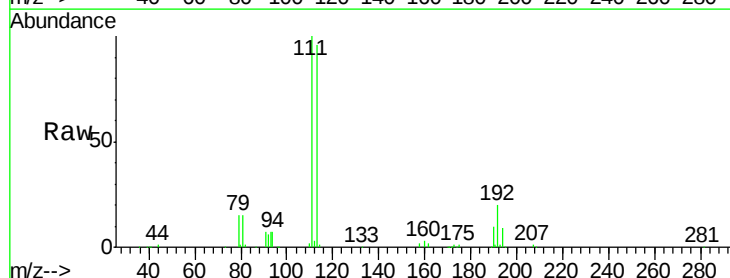
Tgt Ion:113 Resp: 123772

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

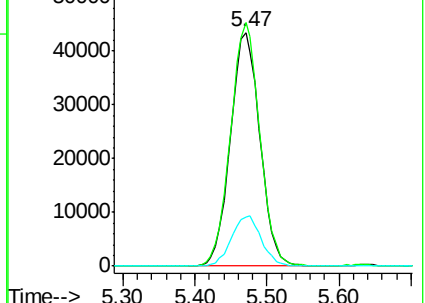
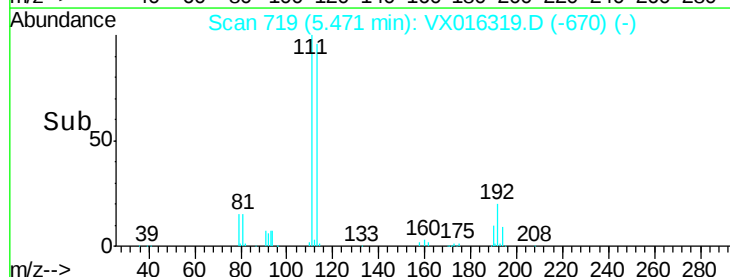
192 21.6 17.0 25.4

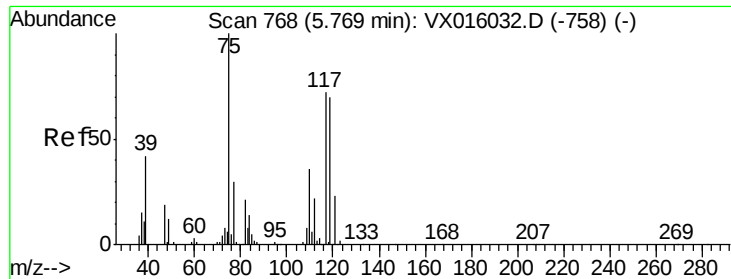


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

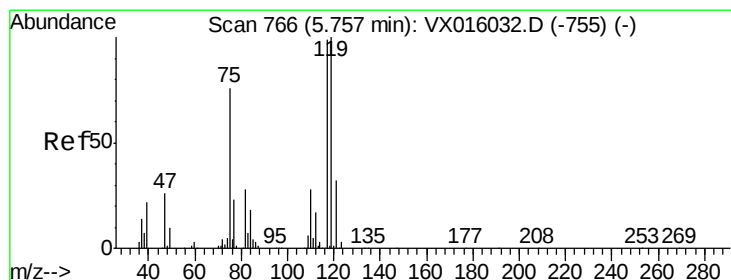
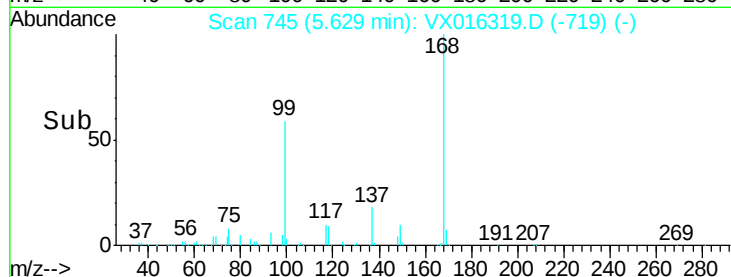
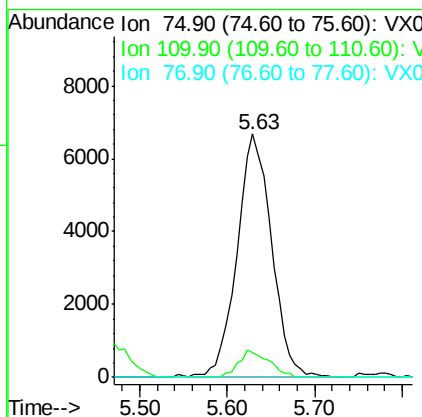
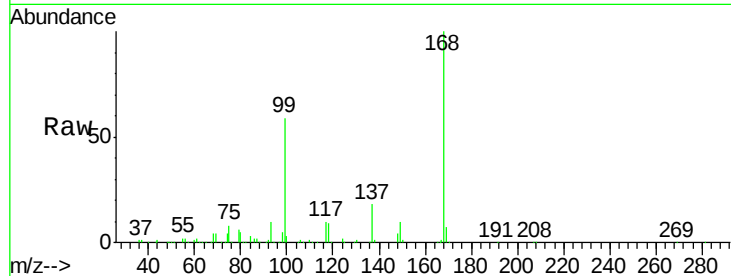




#36
 1,1-Dichloropropene
 Concen: 4.357 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016319.D
 Acq: 18 May 2020 23:21

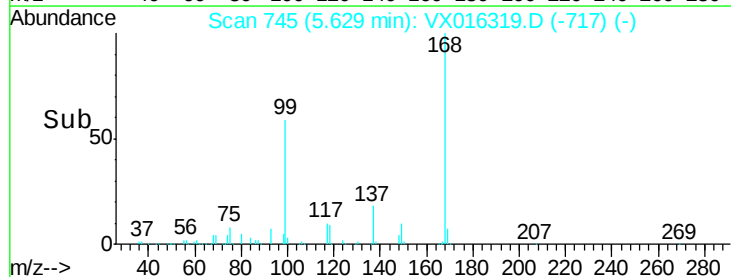
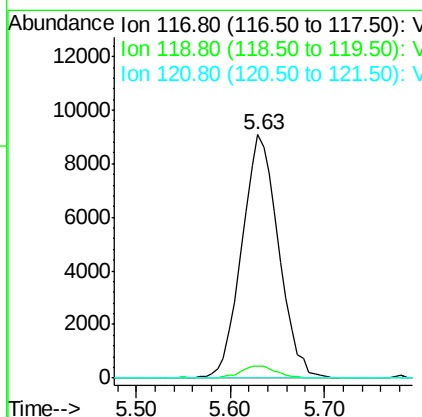
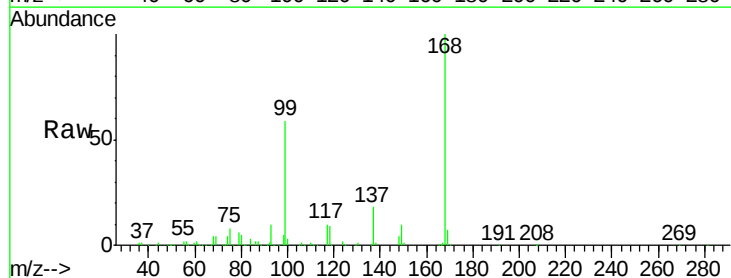
Instrument :
 MSVOA_X
 ClientSampleId :

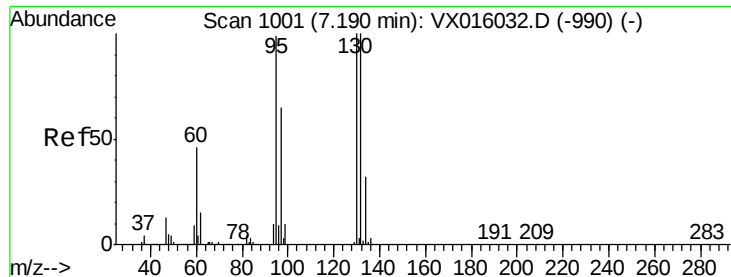
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.1	54.1#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.803 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016319.D
 Acq: 18 May 2020 23:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	80.3	120.5#
121	0.0	25.7	38.5#





#44

Trichloroethene

Concen: 2.532 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

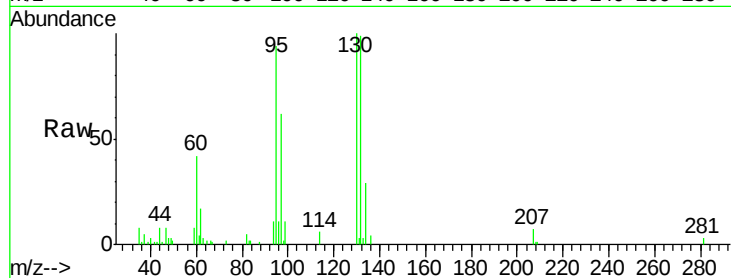
ClientSampleId :

Tot Ion:130 Resp: 11069

Ion Ratio Lower Upper

130 100

95 94.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

6000

5000

4000

3000

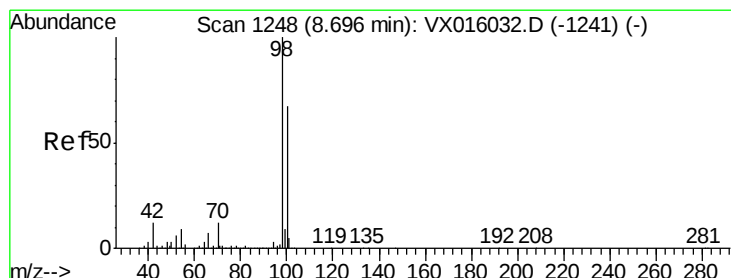
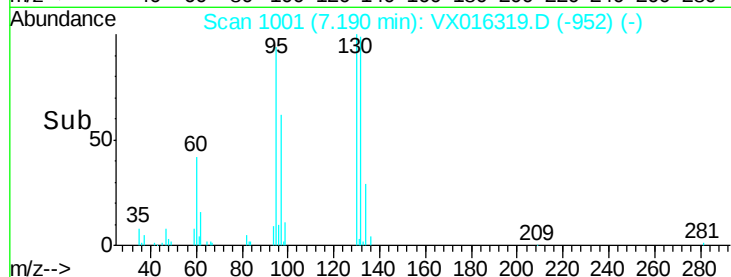
2000

1000

0

Time-->

7.10 7.15 7.20 7.25 7.30



#50

Toluene-d8

Concen: 50.812 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016319.D

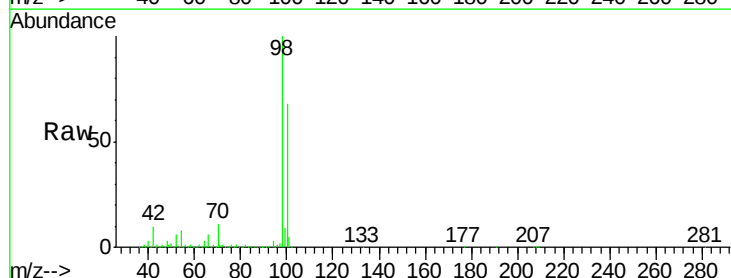
Acq: 18 May 2020 23:21

Tgt Ion: 98 Resp: 529856

Ion Ratio Lower Upper

98 100

100 67.2 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

400000

300000

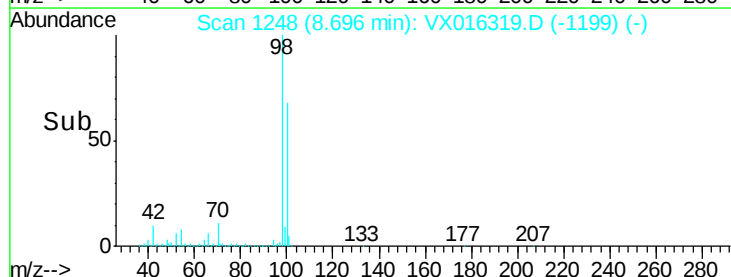
200000

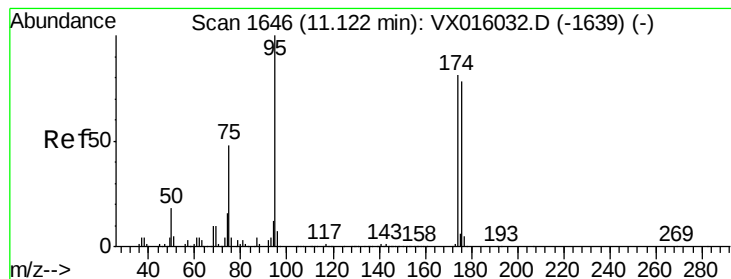
100000

0

Time-->

8.60 8.70 8.80





#62

4-Bromofluorobenzene

Concen: 53.783 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

ClientSampleId :

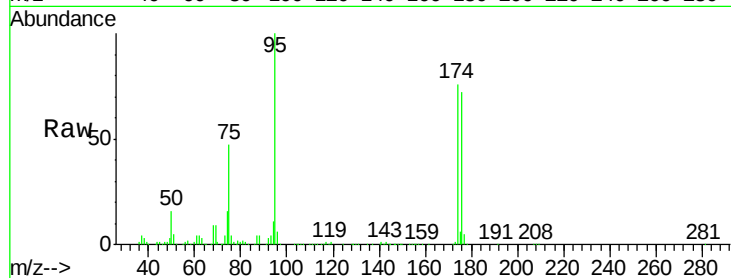
Tot Ion: 95 Resp: 213314

Ion Ratio Lower Upper

95 100

174 79.2 0.0 159.4

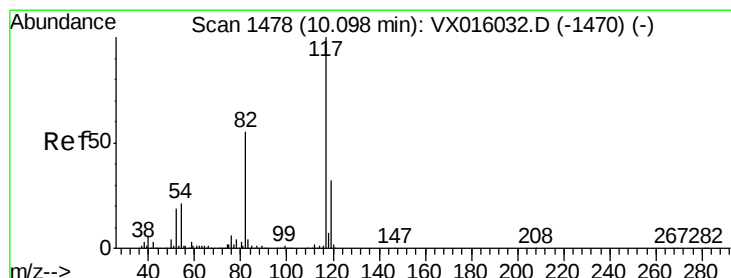
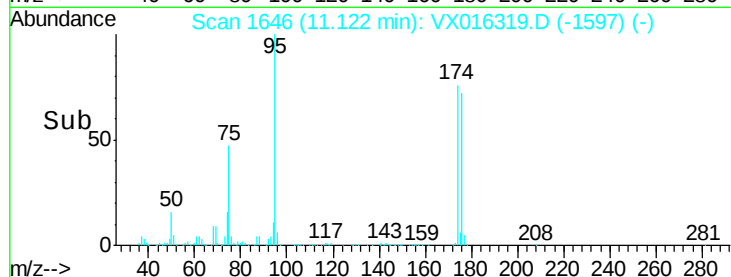
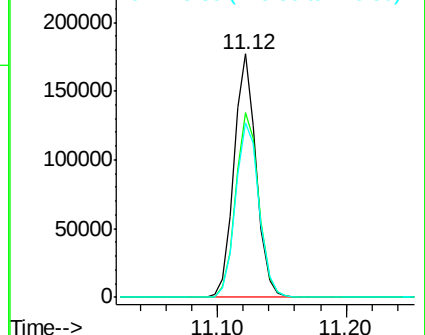
176 76.0 0.0 157.6



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: VX016319.D

Acq: 18 May 2020 23:21

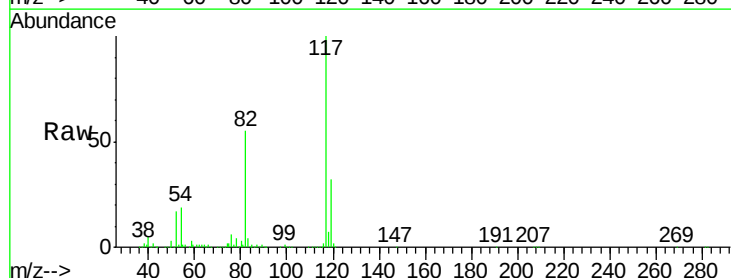
Tgt Ion: 117 Resp: 422155

Ion Ratio Lower Upper

117 100

82 54.8 44.4 66.6

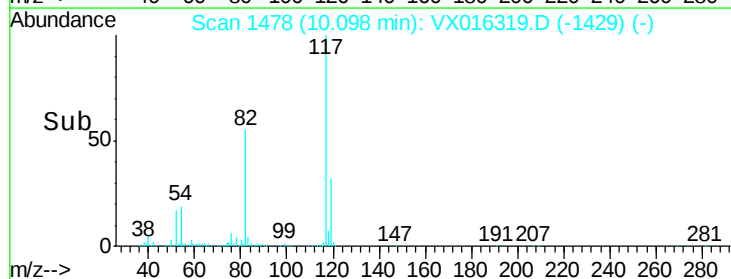
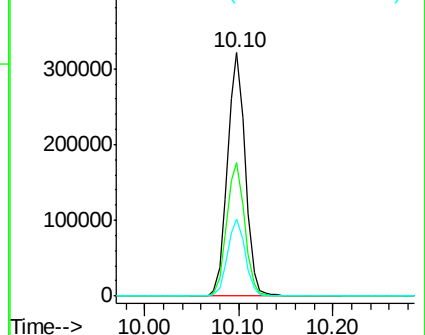
119 31.9 25.5 38.3

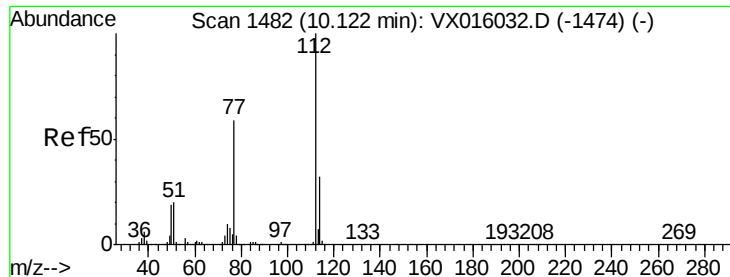


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 2.353 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

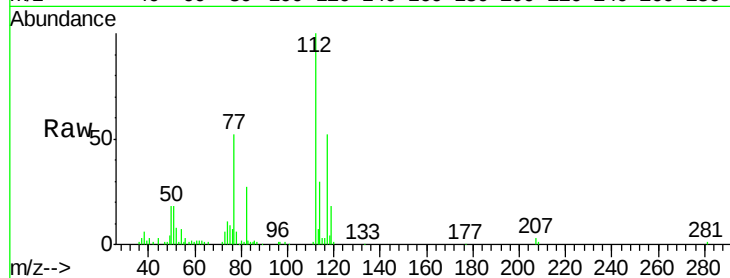
ClientSampleId :

Tot Ion:112 Resp: 20798

Ion Ratio Lower Upper

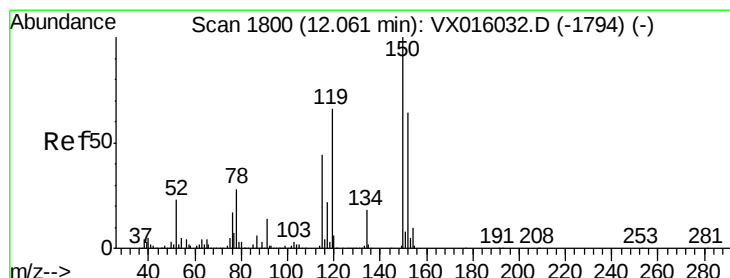
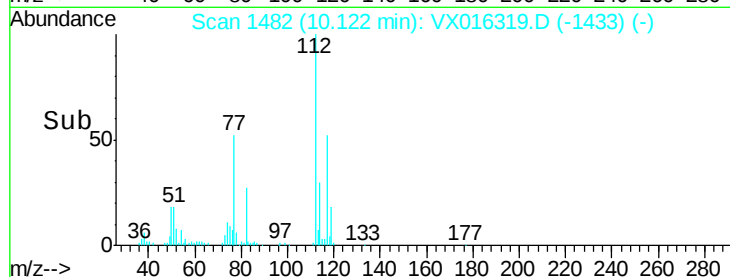
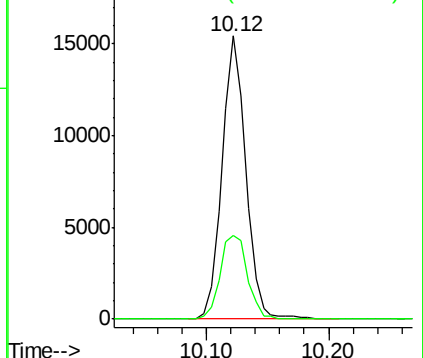
112 100

114 29.5 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX016319.D

Acq: 18 May 2020 23:21

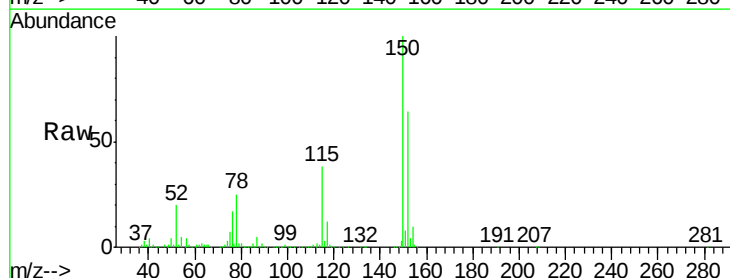
Tgt Ion:152 Resp: 214829

Ion Ratio Lower Upper

152 100

115 58.9 41.3 124.1

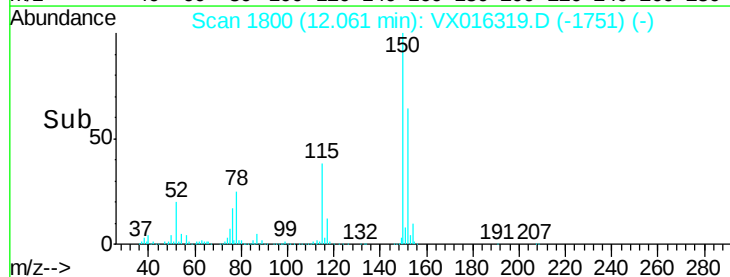
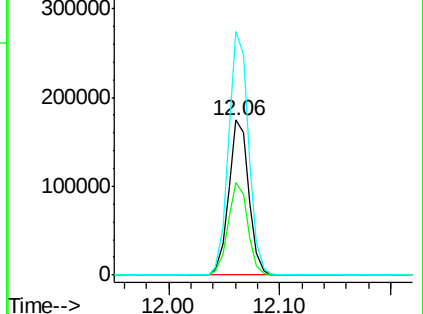
150 157.4 0.0 352.2

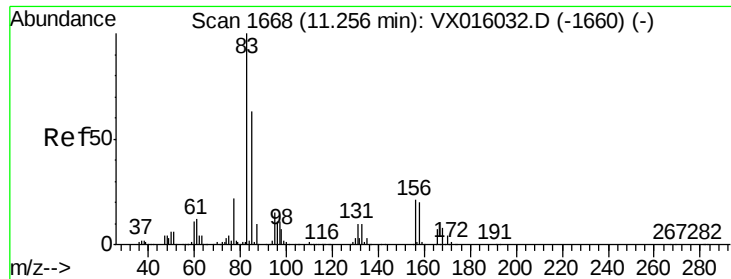


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.081 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

ClientSampleId :

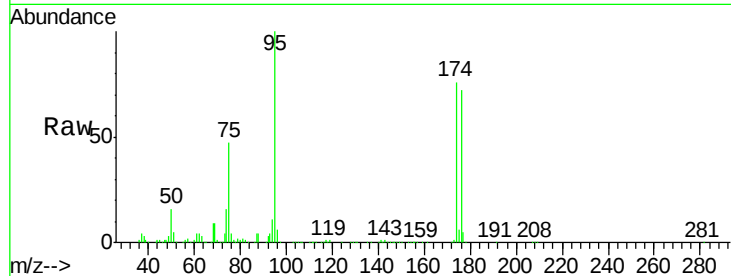
Tot Ion: 83 Resp: 93

Ion Ratio Lower Upper

83 100

131 343.0 5.1 15.4#

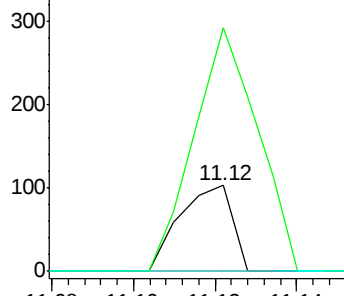
85 0.0 32.0 96.0#



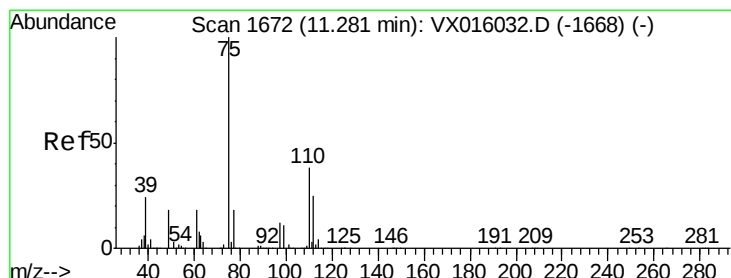
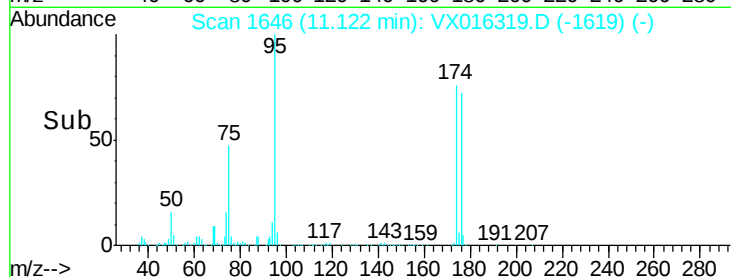
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



Time--> 11.08 11.10 11.12 11.14



#76

1,2,3-Trichloropropane

Concen: 20.851 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016319.D

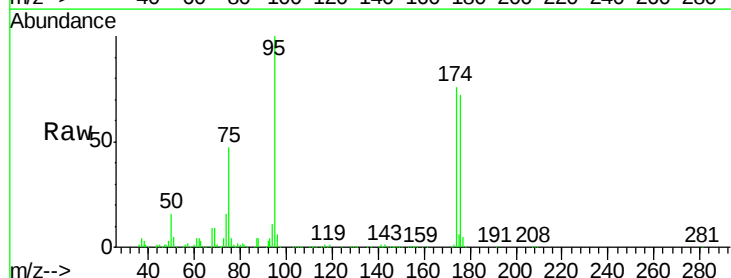
Acq: 18 May 2020 23:21

Tgt Ion: 75 Resp: 101647

Ion Ratio Lower Upper

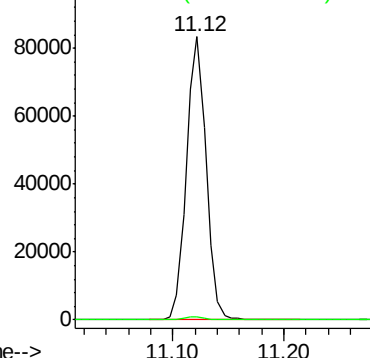
75 100

77 1.3 21.2 63.6#

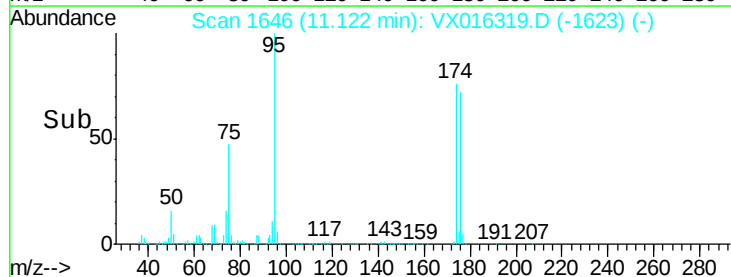


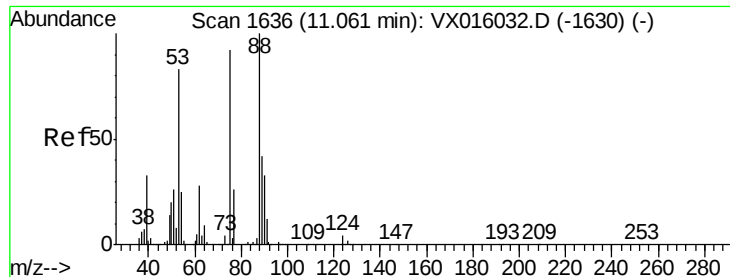
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.10 11.20





#81

trans-1,4-Dichloro-2-butene

Concen: 49.689 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

ClientSampled :

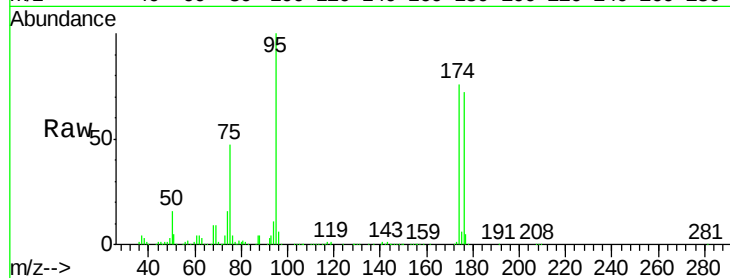
Tot Ion: 75 Resp: 101647

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

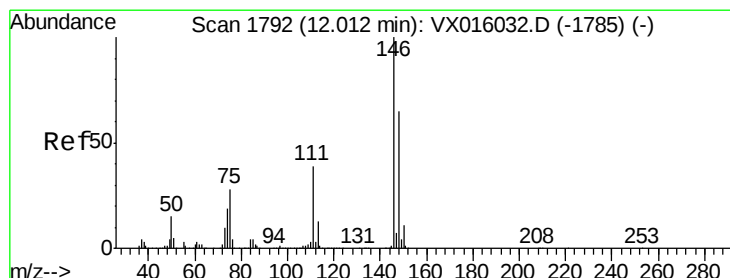
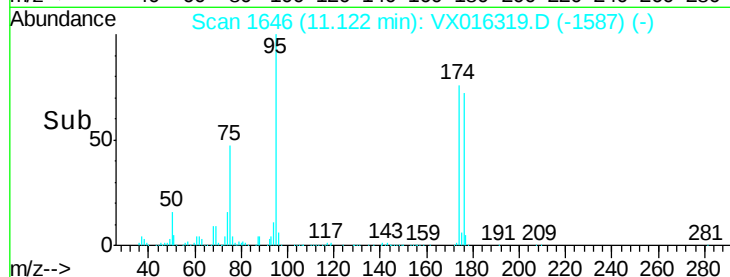
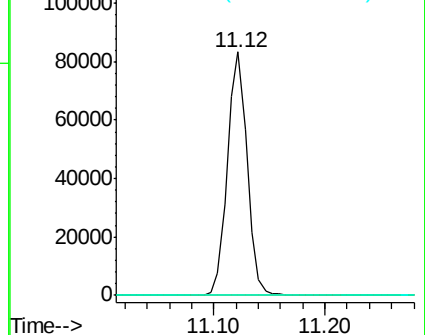
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#87

1,3-Dichlorobenzene

Concen: 0.233 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

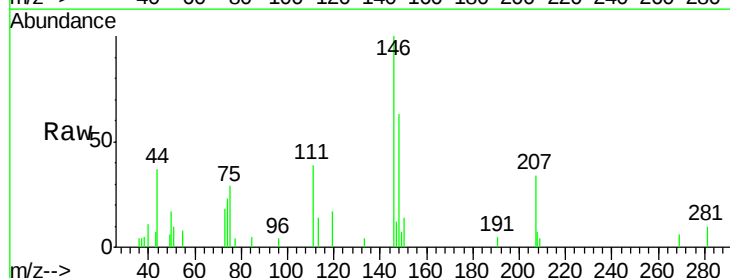
Tgt Ion: 146 Resp: 1688

Ion Ratio Lower Upper

146 100

111 38.0 20.2 60.6

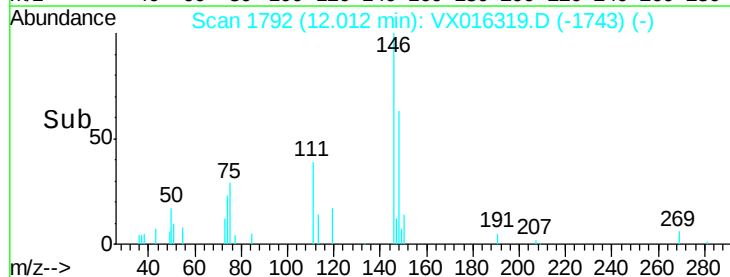
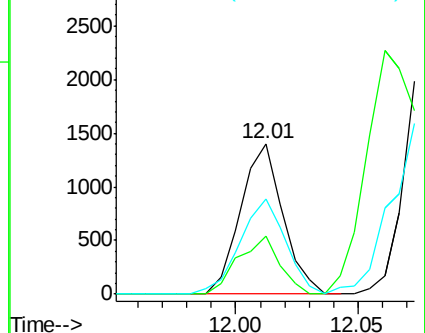
148 68.2 32.1 96.3

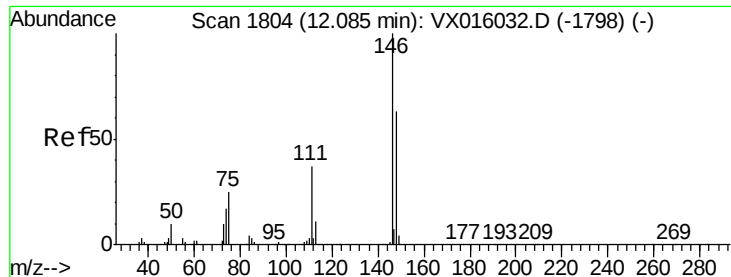


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

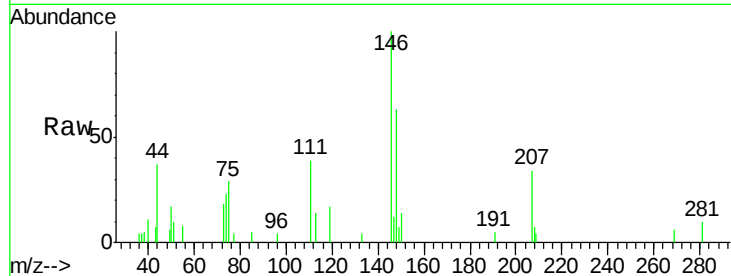




#88
 1,4-Dichlorobenzene
 Concen: 0.230 ug/l
 RT: 12.01 min Scan# 1792
 Delta R.T. -0.07 min
 Lab File: VX016319.D
 Acq: 18 May 2020 23:21

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.6	58.7
148	68.2	31.8	95.3

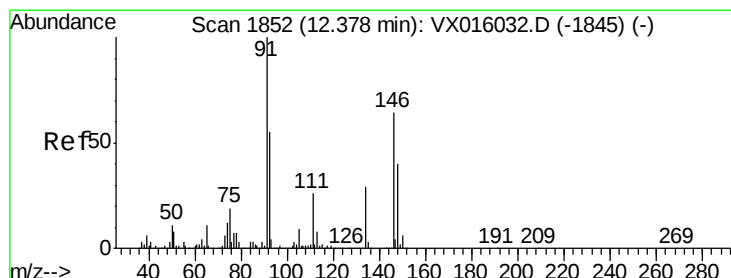
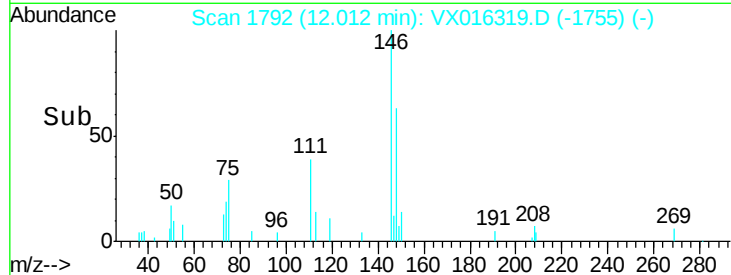
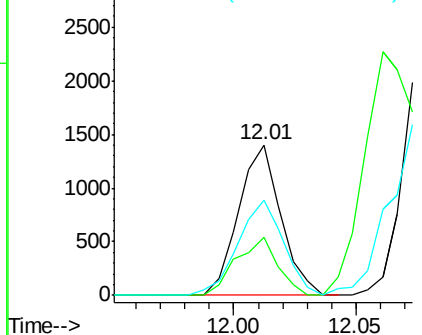


Abundance

Ion 145.90 (145.60 to 146.60): V

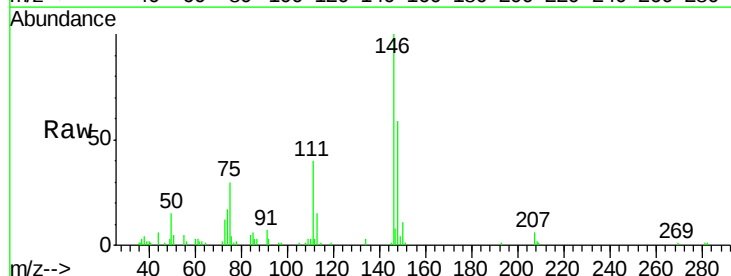
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91
 1,2-Dichlorobenzene
 Concen: 1.509 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX016319.D
 Acq: 18 May 2020 23:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.1	63.1
148	62.3	32.4	97.0

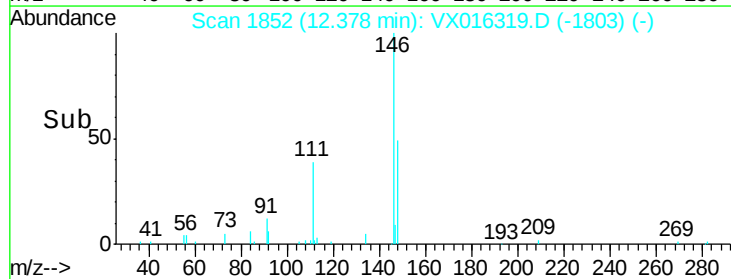
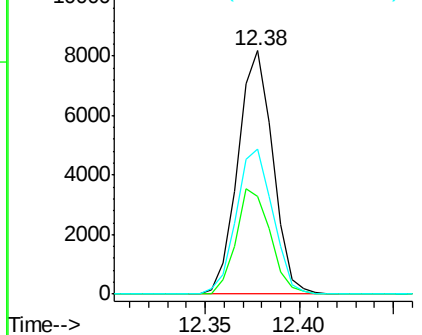


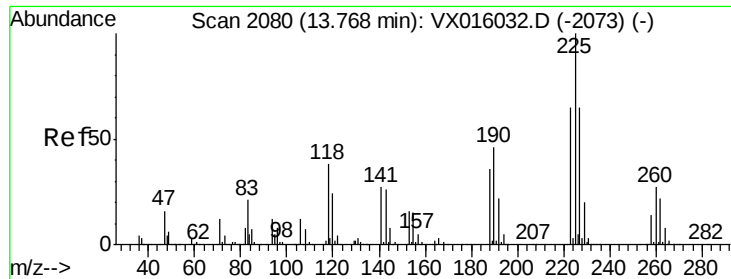
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.629 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016319.D

Acq: 18 May 2020 23:21

Instrument :

MSVOA_X

ClientSampleId :

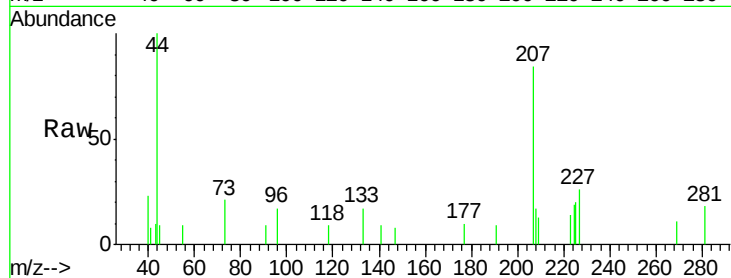
Tot Ion:225 Resp: 238

Ion Ratio Lower Upper

225 100

223 47.9 32.3 96.9

227 61.3 31.8 95.4



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

