

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016304.D
 Acq On : 18 May 2020 17:18
 Operator : JC/SP
 Sample : L2649-06DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 00:47:56 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	282350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	460135	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	450402	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	234489	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	163310	43.95	ug/l	0.00
Spiked Amount			Recovery	=	87.90%	
35) Dibromofluoromethane	5.47	113	132571	45.48	ug/l	0.00
Spiked Amount			Recovery	=	90.96%	
50) Toluene-d8	8.70	98	560511	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	11.12	95	230050	53.85	ug/l	0.00
Spiked Amount			Recovery	=	107.70%	

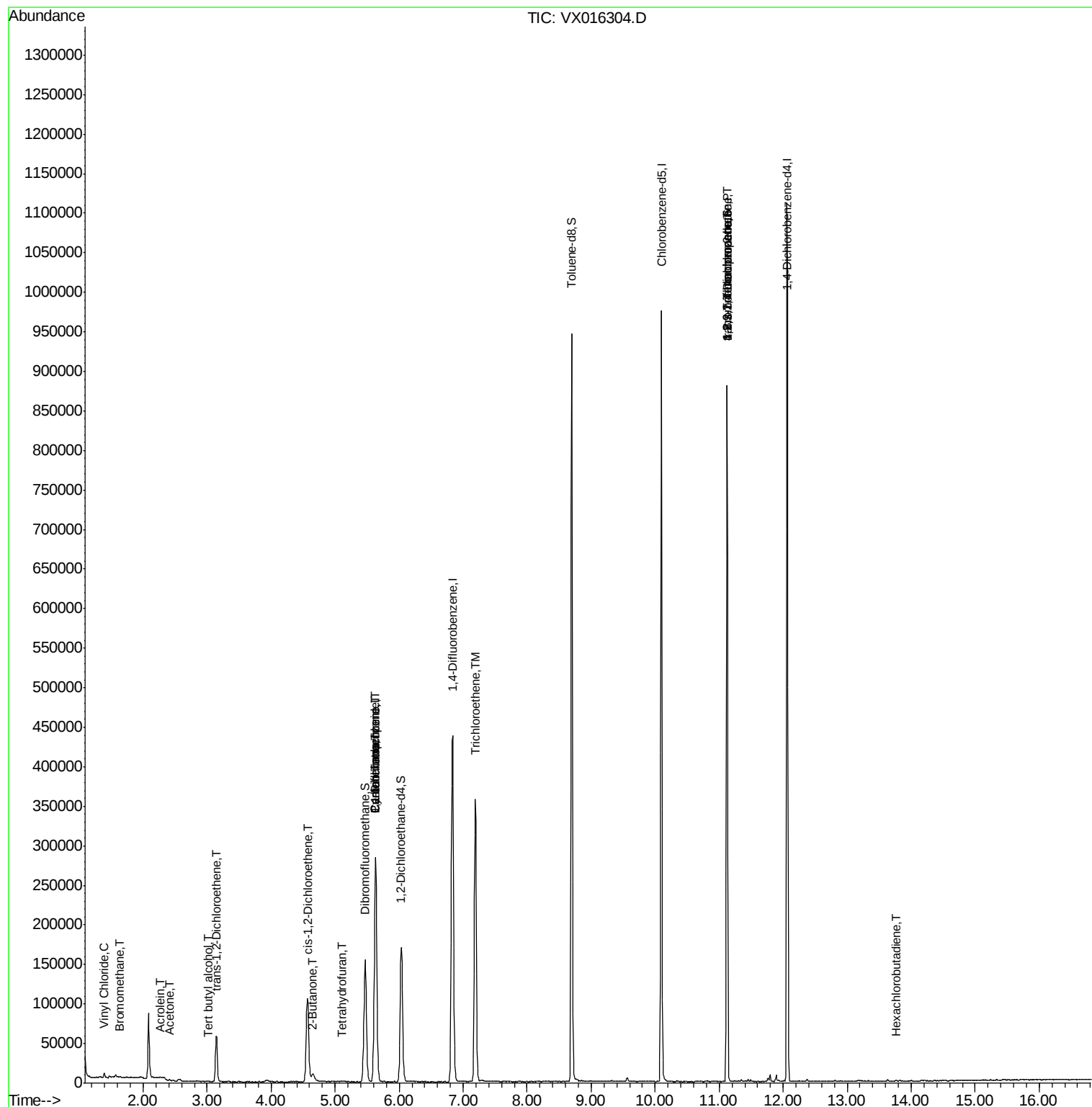
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	2856	0.771	ug/l	95
5) Bromomethane	1.64	94	514	0.275	ug/l	95
11) Tert butyl alcohol	3.01	59	342	0.364	ug/l #	72
13) Acrolein	2.27	56	500	0.850	ug/l	93
16) Acetone	2.42	43	1466	0.884	ug/l	93
21) trans-1,2-Dichloroethene	3.14	96	25500	7.796	ug/l	98
25) 2-Butanone	4.64	43	801	0.300	ug/l #	48
27) cis-1,2-Dichloroethene	4.57	96	71001	19.856	ug/l	86
29) Tetrahydrofuran	5.10	42	551	0.311	ug/l #	35
31) Cyclohexane	5.64	56	5290	1.025	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20182	4.456	ug/l #	50
38) Carbon Tetrachloride	5.63	117	26850	5.832	ug/l #	14
44) Trichloroethene	7.19	130	139588	29.648	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.13	83	154	2.097	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	111882	21.026	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	111882	50.107	ug/l #	13
94) Hexachlorobutadiene	13.77	225	247	0.624	ug/l	97

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
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: VX016304.D

Acq: 18 May 2020 17:18

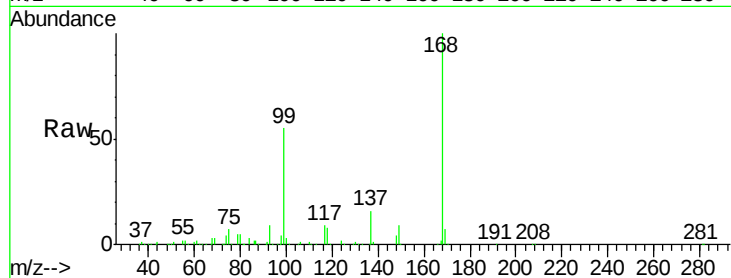
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 282350

Ion Ratio Lower Upper

168 100

99 55.1 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

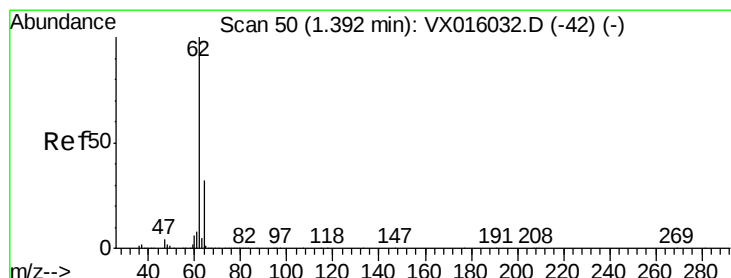
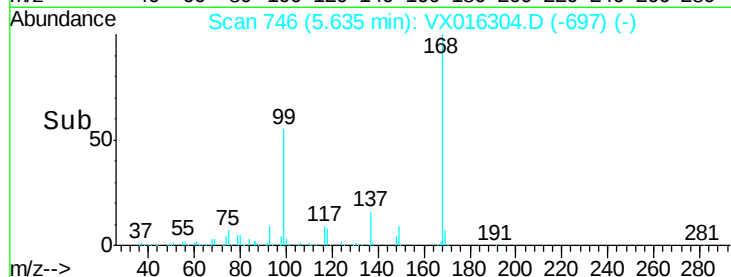
Time-->

5.50

5.60

5.70

5.80



#4

Vinyl Chloride

Concen: 0.771 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016304.D

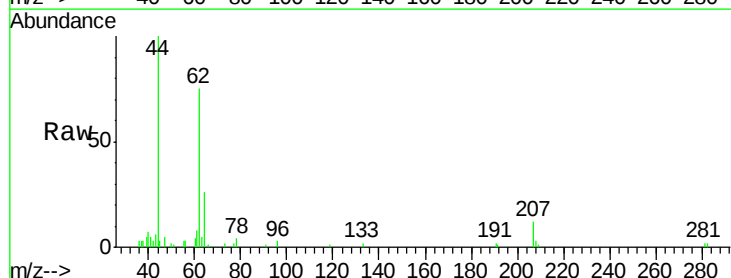
Acq: 18 May 2020 17:18

Tgt Ion: 62 Resp: 2856

Ion Ratio Lower Upper

62 100

64 35.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

3000

2000

1000

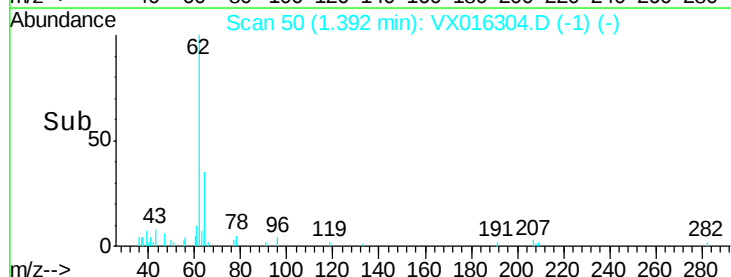
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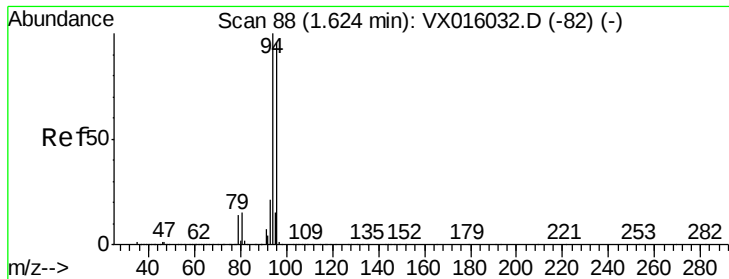
Time-->

1.35

1.40

1.45





#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

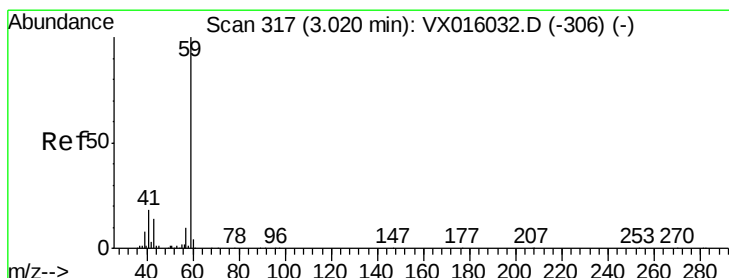
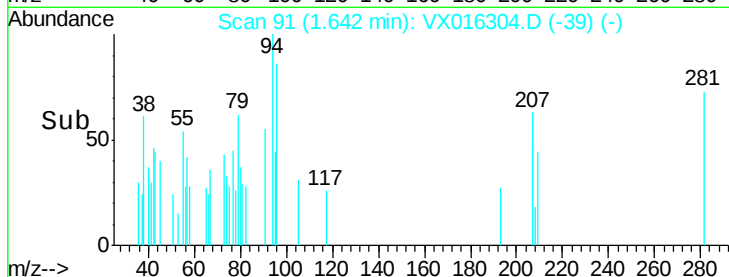
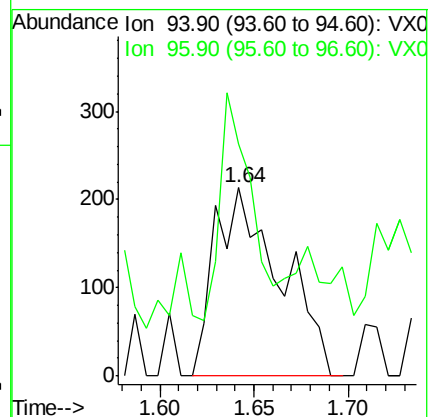
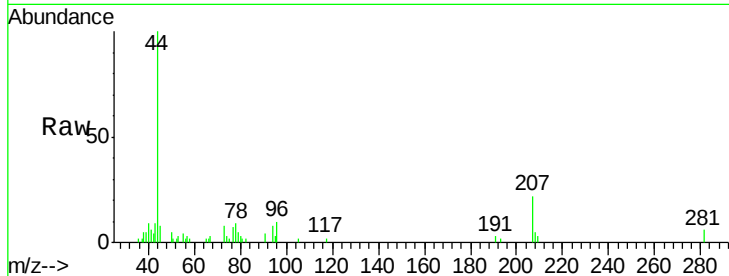
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 514

Ion Ratio Lower Upper

94 100

96 91.5 76.9 115.3



#11

Tert butyl alcohol

Concen: 0.364 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016304.D

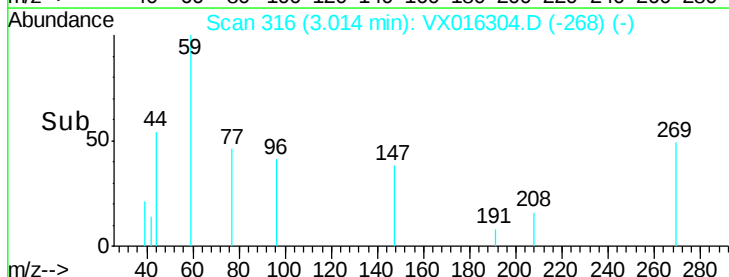
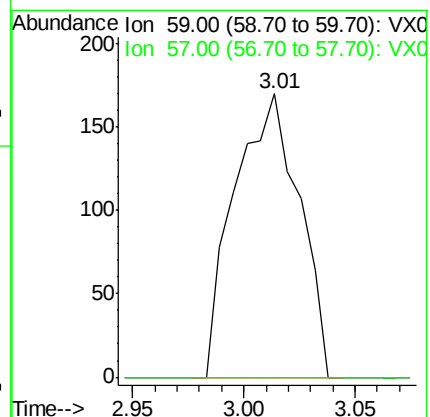
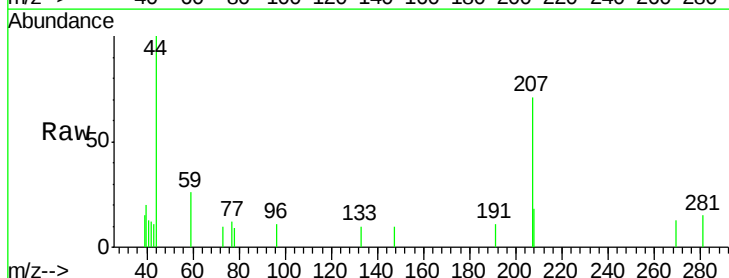
Acq: 18 May 2020 17:18

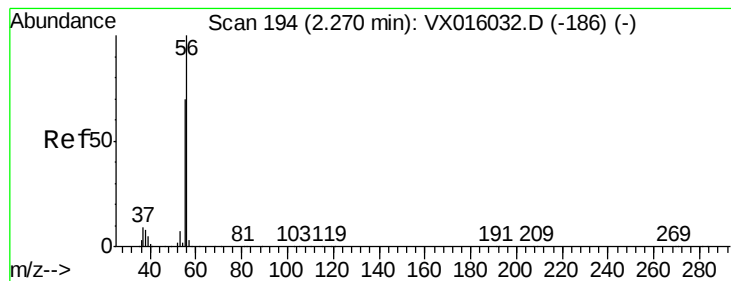
Tgt Ion: 59 Resp: 342

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.850 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

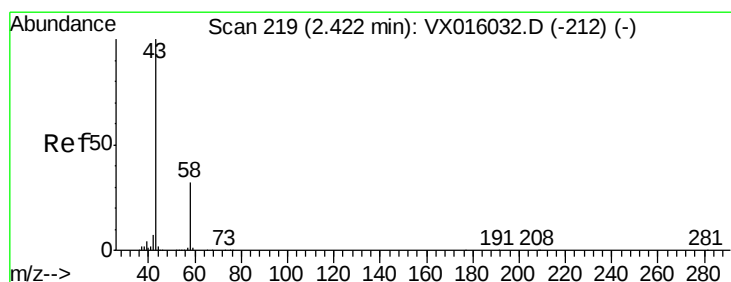
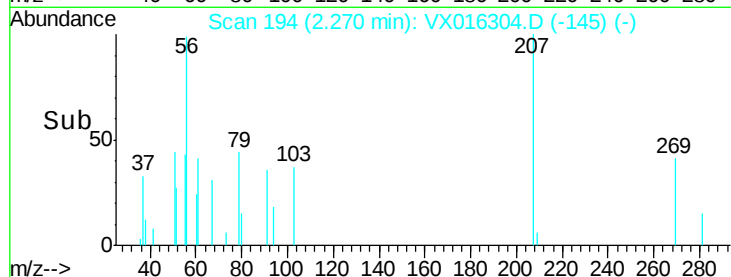
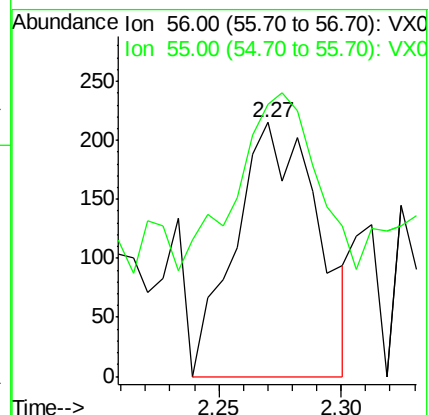
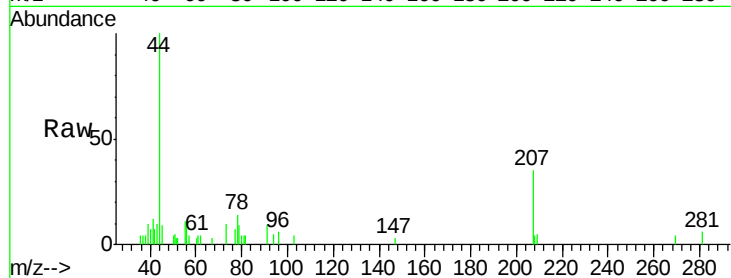
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 500

Ion Ratio Lower Upper

56 100

55 65.2 56.5 84.7



#16

Acetone

Concen: 0.884 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016304.D

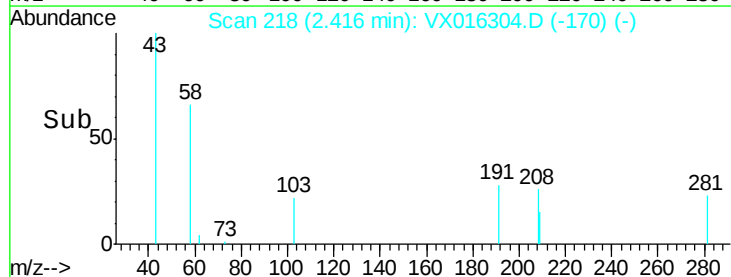
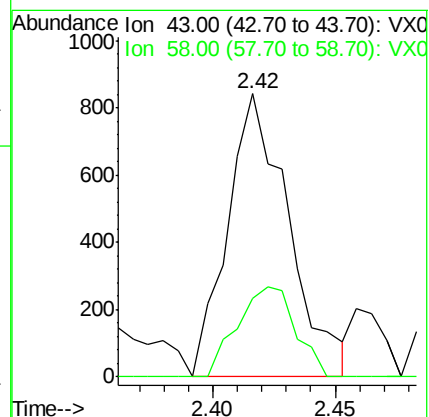
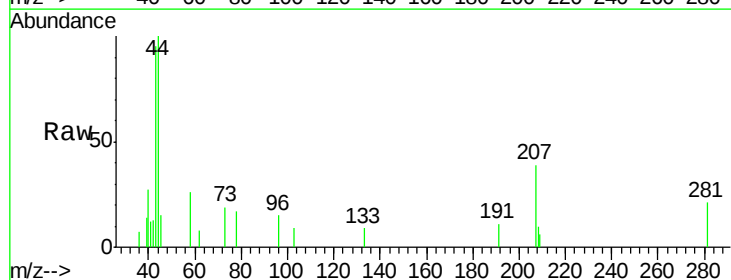
Acq: 18 May 2020 17:18

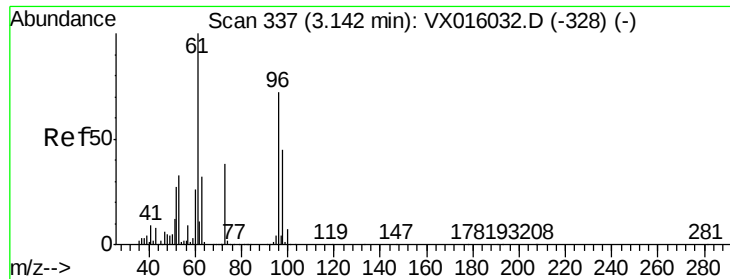
Tgt Ion: 43 Resp: 1466

Ion Ratio Lower Upper

43 100

58 27.7 25.4 38.0





#21

trans-1,2-Dichloroethene

Concen: 7.796 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

ClientSampleId :

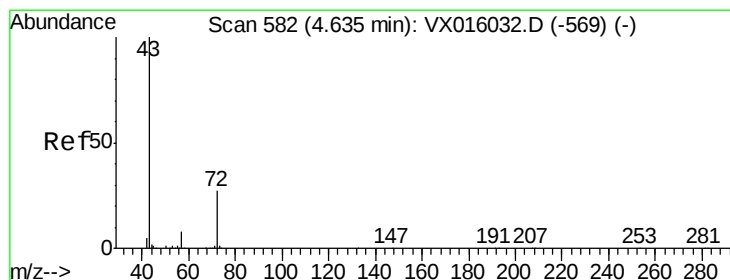
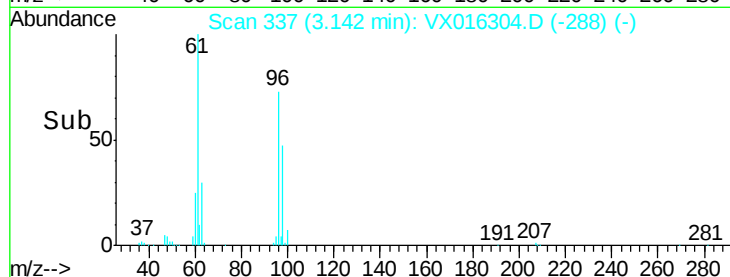
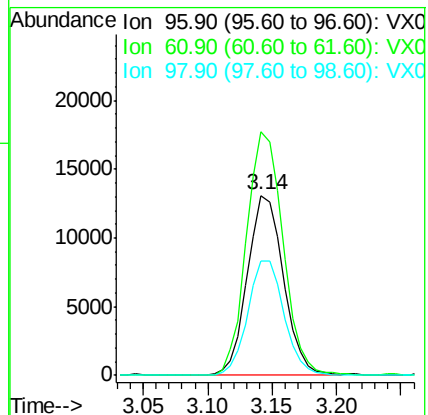
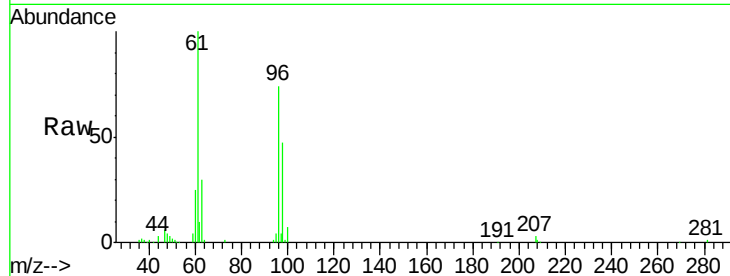
Tot Ion: 96 Resp: 25500

Ion Ratio Lower Upper

96 100

61 135.2 111.2 166.8

98 63.6 50.2 75.4



#25

2-Butanone

Concen: 0.300 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016304.D

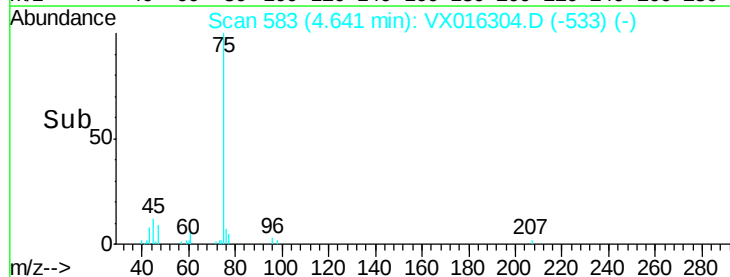
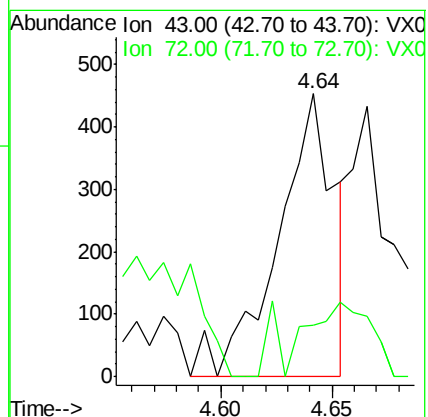
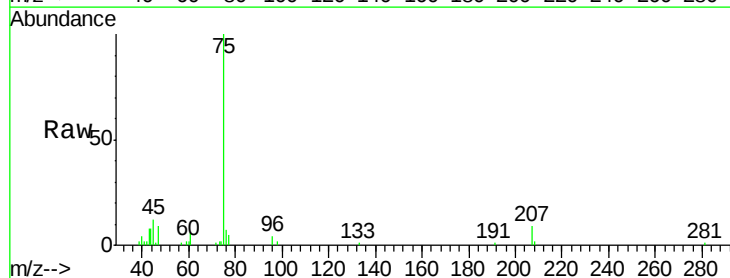
Acq: 18 May 2020 17:18

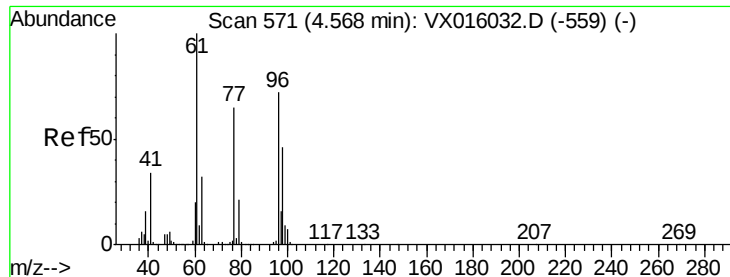
Tgt Ion: 43 Resp: 801

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.8#



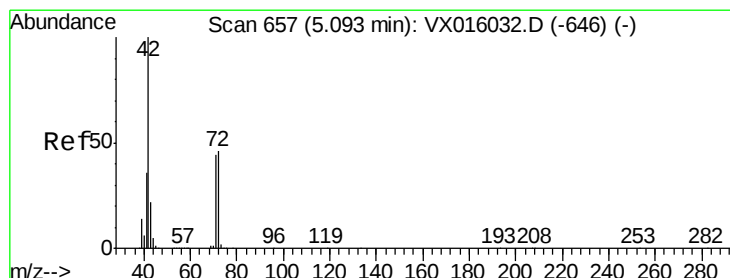
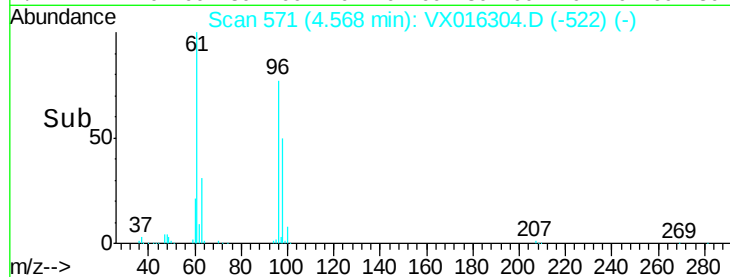
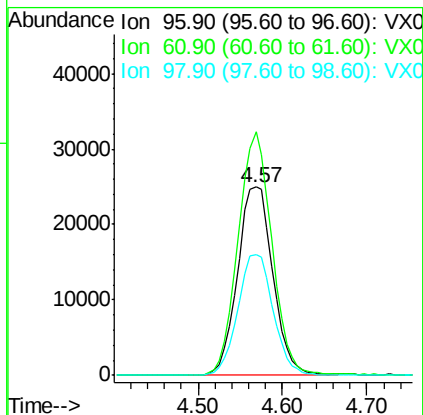
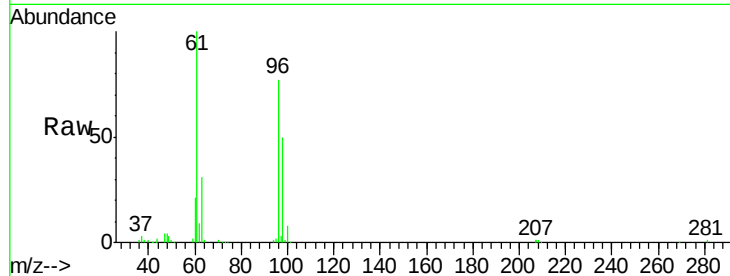


#27

cis-1,2-Dichloroethene
 Concen: 19.856 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016304.D
 Acq: 18 May 2020 17:18

Instrument :
 MSVOA_X
 ClientSampleId :

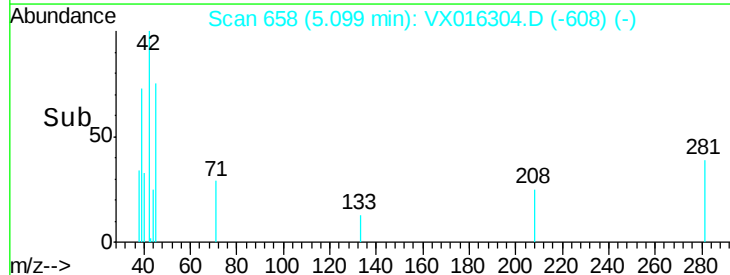
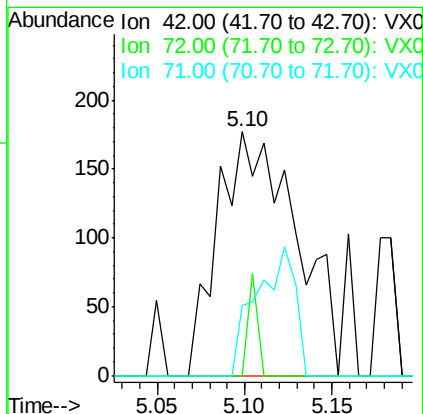
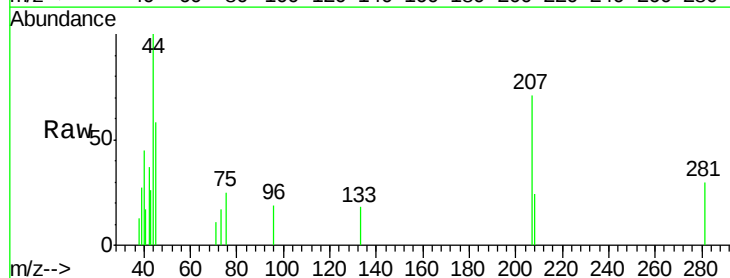
Tot Ion: 96 Resp: 71001
 Ion Ratio Lower Upper
 96 100
 61 124.0 0.0 296.2
 98 64.0 0.0 129.4

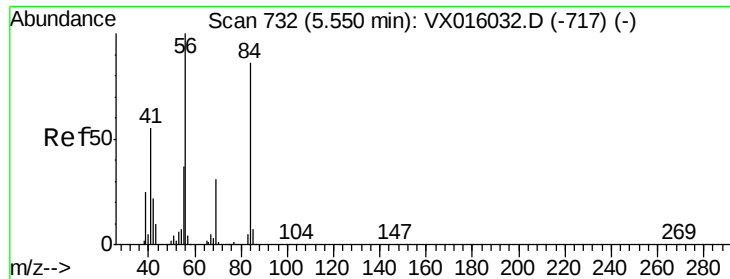


#29

Tetrahydrofuran
 Concen: 0.311 ug/l
 RT: 5.10 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX016304.D
 Acq: 18 May 2020 17:18

Tgt Ion: 42 Resp: 551
 Ion Ratio Lower Upper
 42 100
 72 4.9 37.1 55.7#
 71 0.0 34.5 51.7#

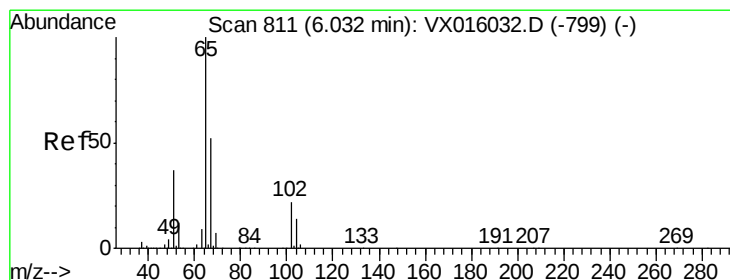
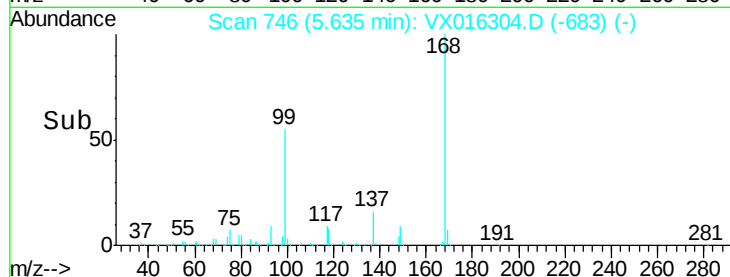
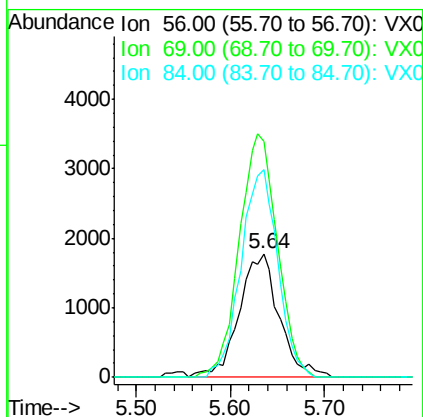
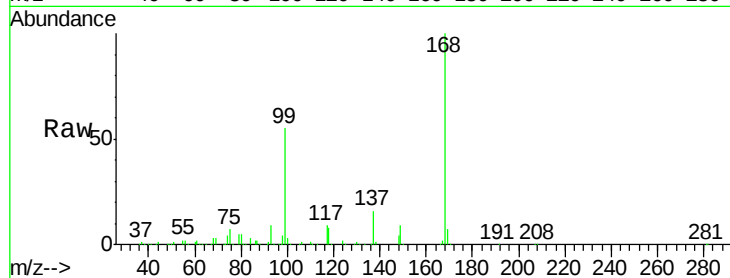




#31
Cyclohexane
Concen: 1.025 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016304.D
Acq: 18 May 2020 17:18

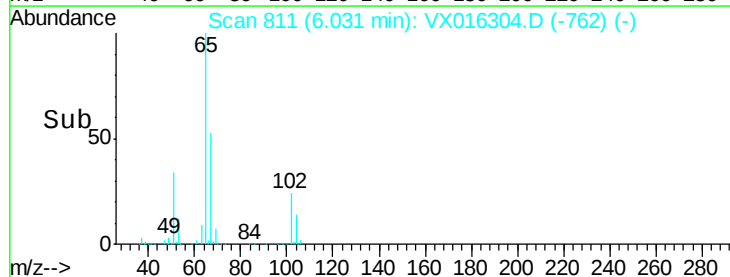
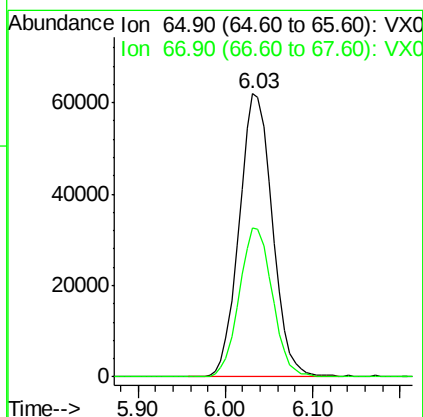
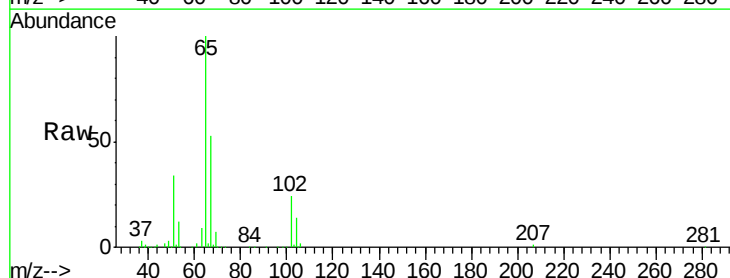
Instrument :
MSVOA_X
ClientSampled :

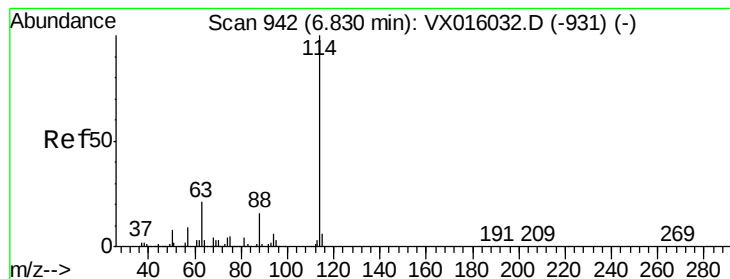
Tot Ion: 56 Resp: 5290
Ion Ratio Lower Upper
56 100
69 190.7 25.0 37.6#
84 167.5 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 43.954 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016304.D
Acq: 18 May 2020 17:18

Tgt Ion: 65 Resp: 163310
Ion Ratio Lower Upper
65 100
67 52.9 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

ClientSampled :

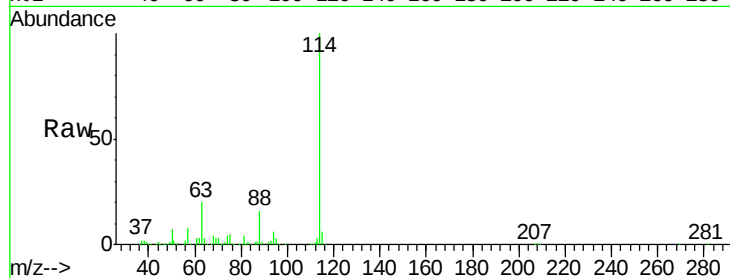
Tot Ion:114 Resp: 460135

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.8

88 15.8 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

250000

200000

150000

100000

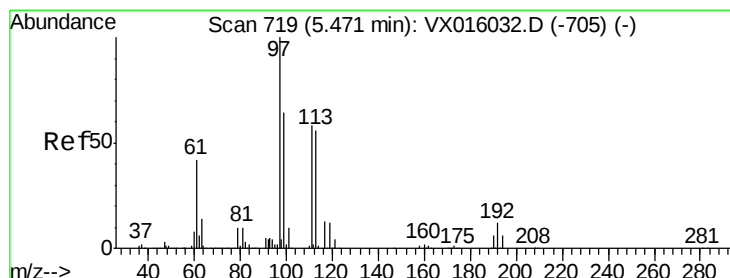
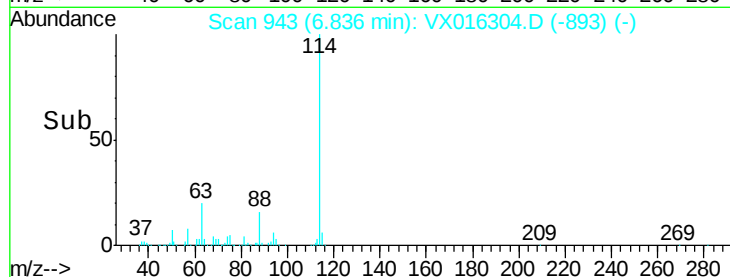
50000

0

6.84

6.70 6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 45.477 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

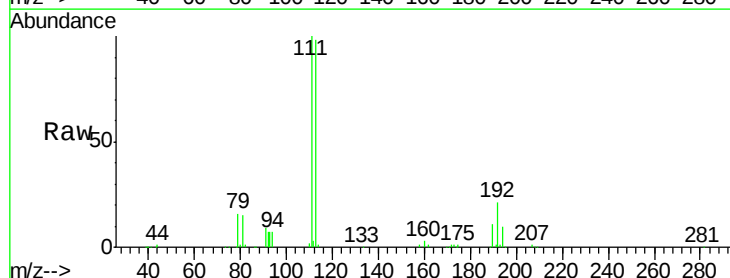
Tgt Ion:113 Resp: 132571

Ion Ratio Lower Upper

113 100

111 102.9 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

60000

50000

40000

30000

20000

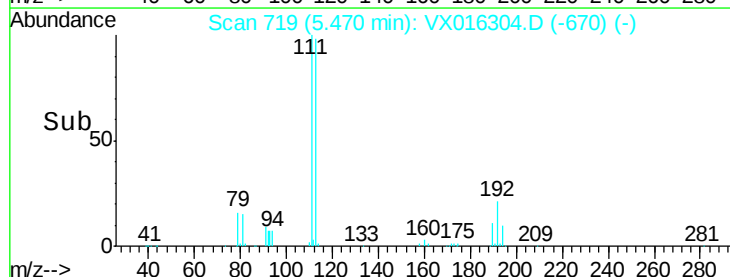
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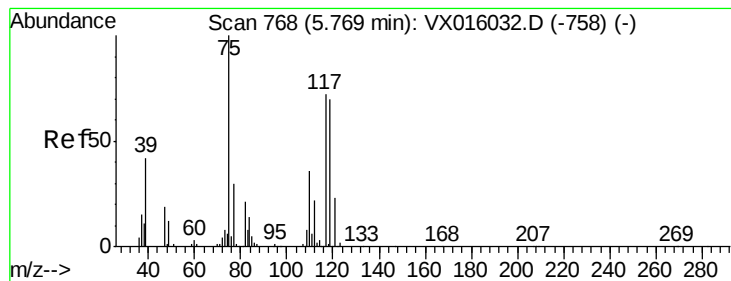
0

5.47

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.456 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

ClientSampleId :

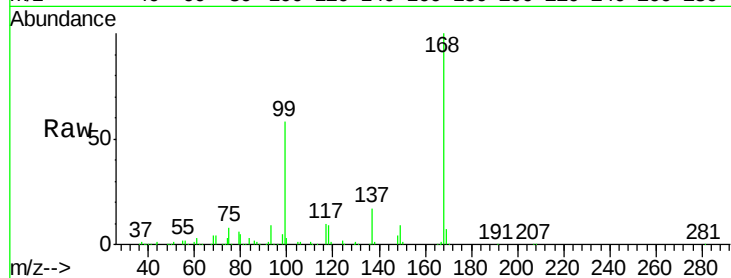
Tot Ion: 75 Resp: 20182

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.1#

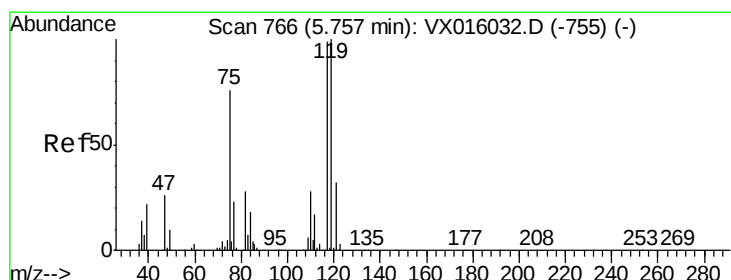
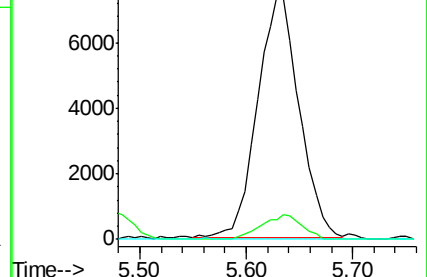
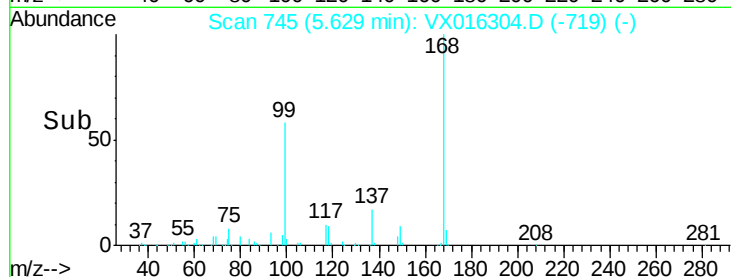
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX016304.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016304.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016304.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.832 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

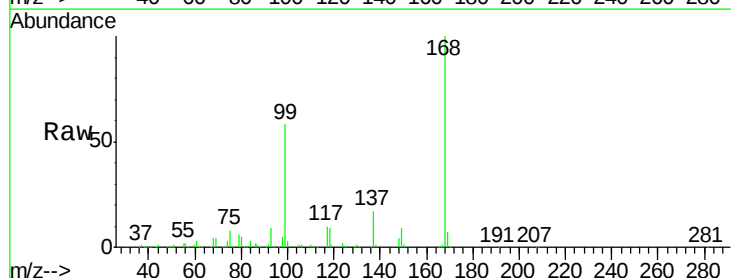
Tgt Ion: 117 Resp: 26850

Ion Ratio Lower Upper

117 100

119 5.2 80.3 120.5#

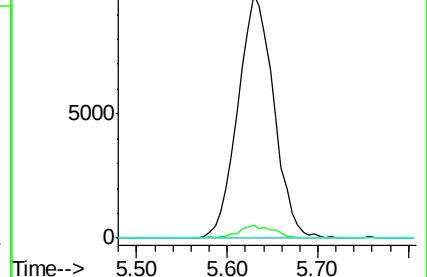
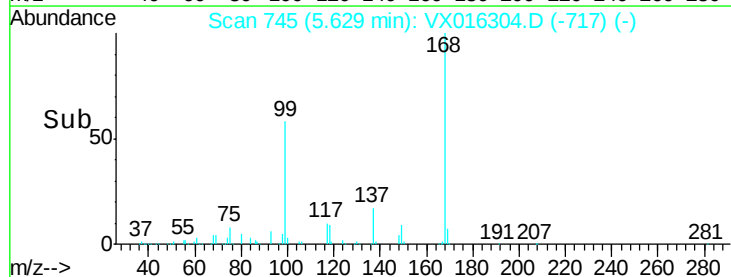
121 0.0 25.7 38.5#

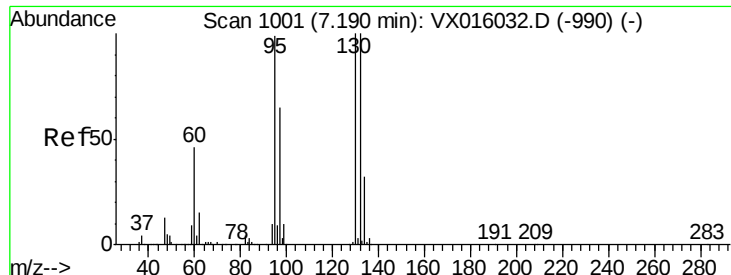


Abundance Ion 116.80 (116.50 to 117.50): VX016304.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX016304.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016304.D (-717) (-)





#44

Trichloroethene

Concen: 29.648 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

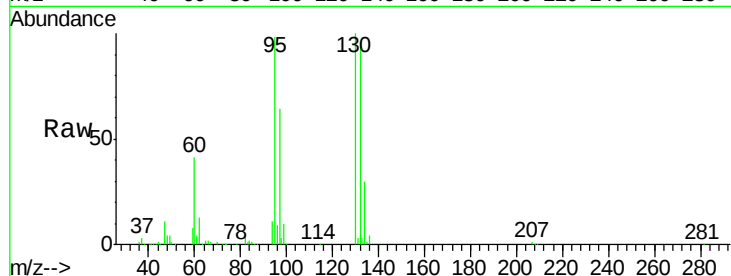
ClientSampleId :

Tot Ion:130 Resp: 139588

Ion Ratio Lower Upper

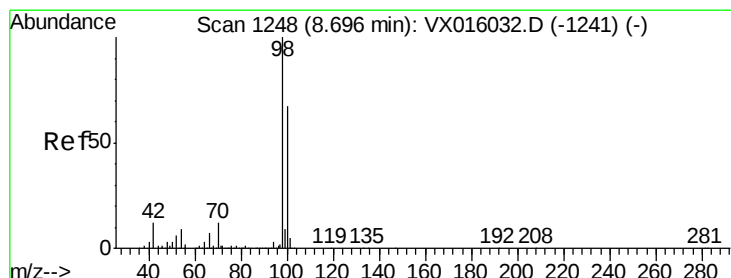
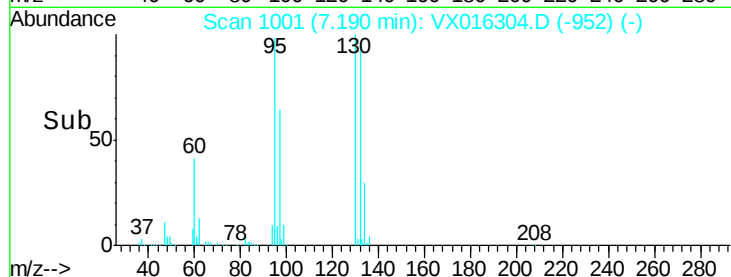
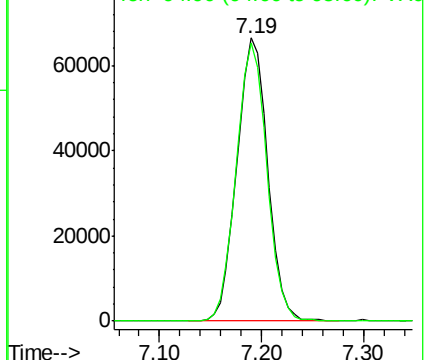
130 100

95 98.4 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.902 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016304.D

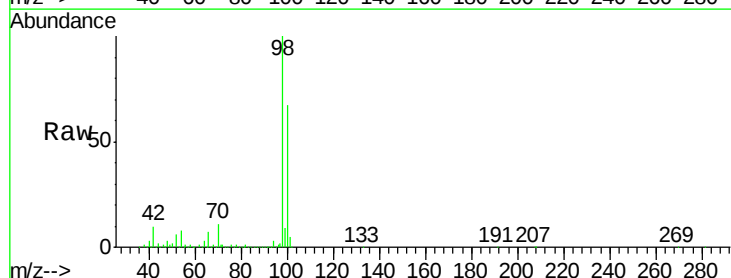
Acq: 18 May 2020 17:18

Tgt Ion: 98 Resp: 560511

Ion Ratio Lower Upper

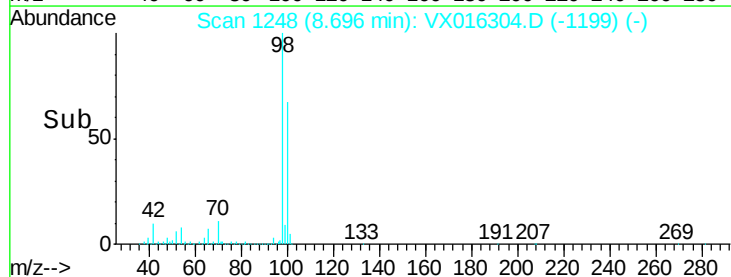
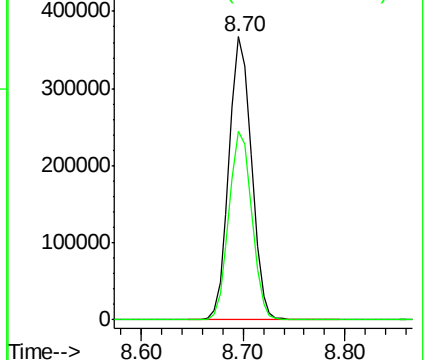
98 100

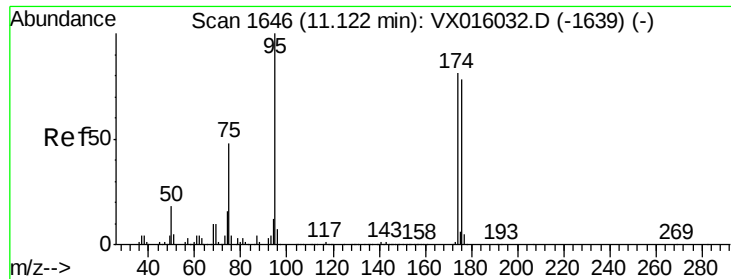
100 67.9 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

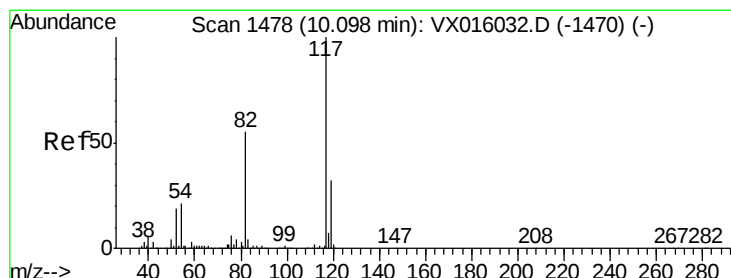
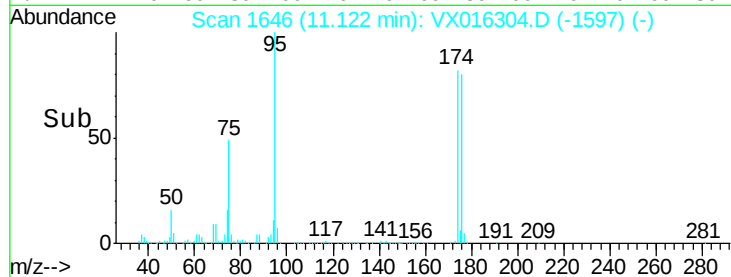
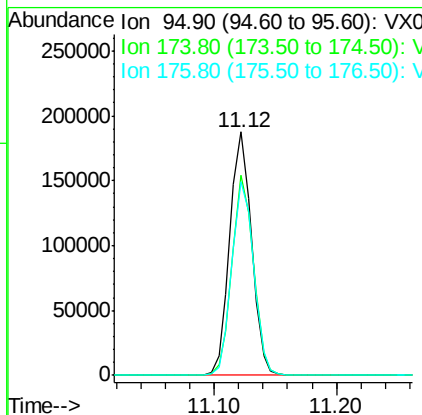
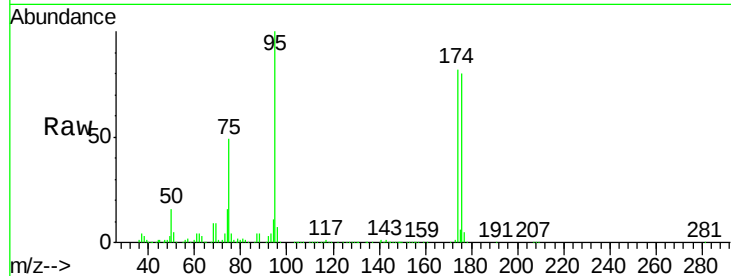




#62
4-Bromofluorobenzene
Concen: 53.848 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016304.D
Acq: 18 May 2020 17:18

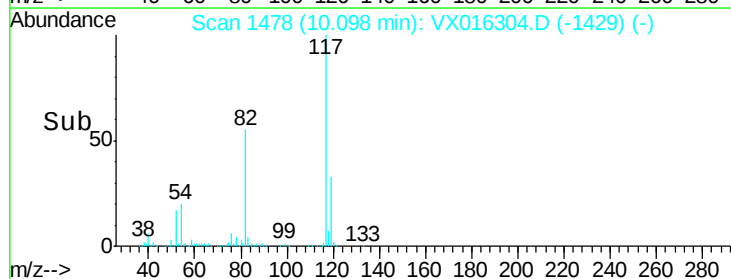
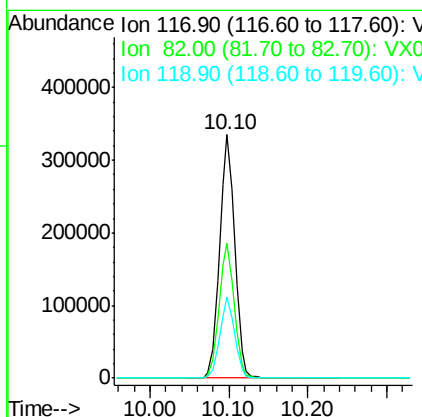
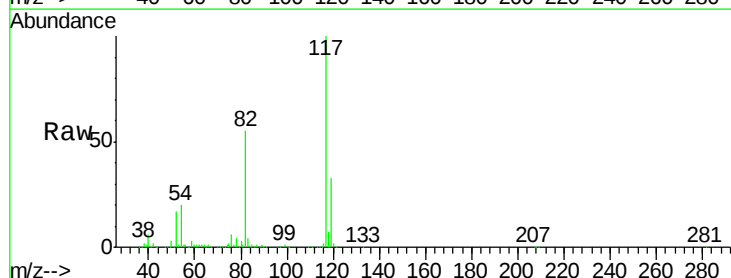
Instrument :
MSVOA_X
ClientSampleId :

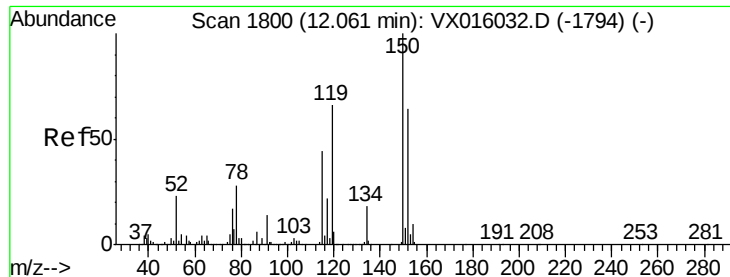
Tot Ion	95	Resp	230050
Ion Ratio	Lower	Upper	
95	100		
174	80.7	0.0	159.4
176	80.1	0.0	157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016304.D
Acq: 18 May 2020 17:18

Tgt Ion	117	Resp	450402
Ion Ratio	Lower	Upper	
117	100		
82	55.1	44.4	66.6
119	33.1	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

ClientSampleId :

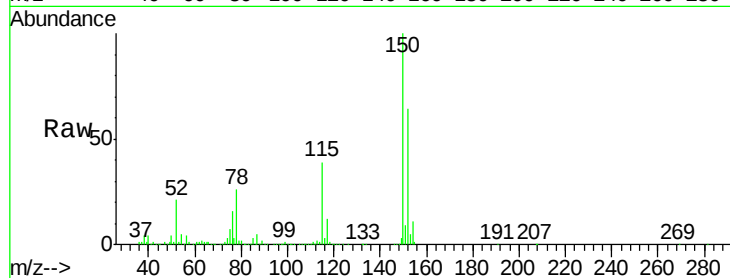
Tot Ion:152 Resp: 234489

Ion Ratio Lower Upper

152 100

115 58.7 41.3 124.1

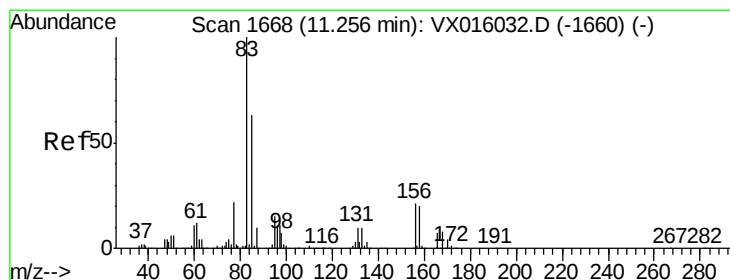
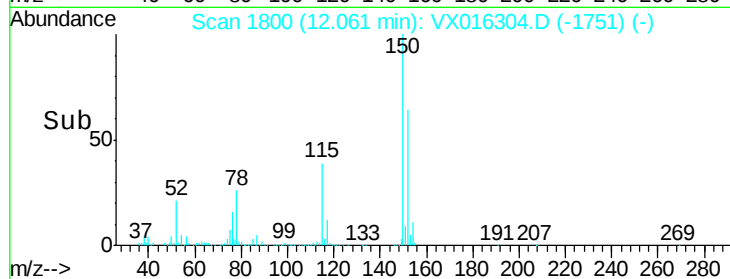
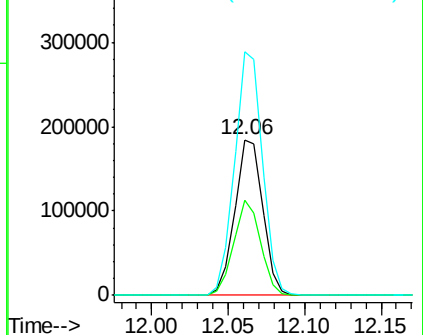
150 155.8 0.0 352.2



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: 2.097 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

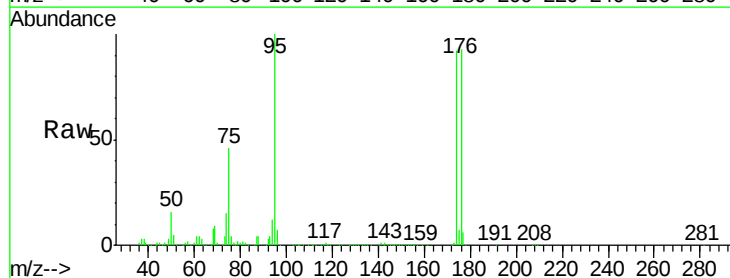
Tgt Ion: 83 Resp: 154

Ion Ratio Lower Upper

83 100

131 208.4 5.1 15.4#

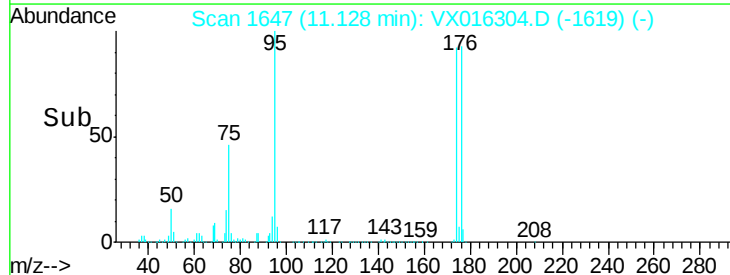
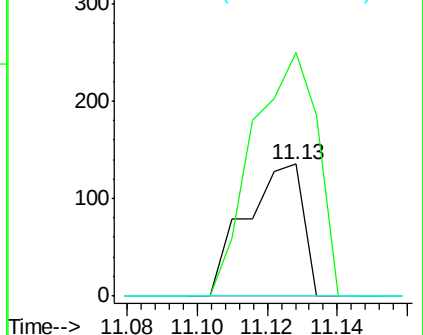
85 0.0 32.0 96.0#

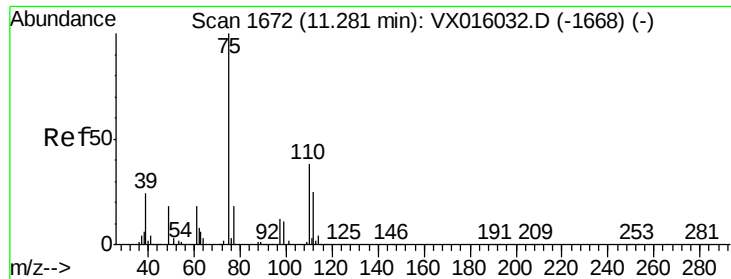


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.026 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

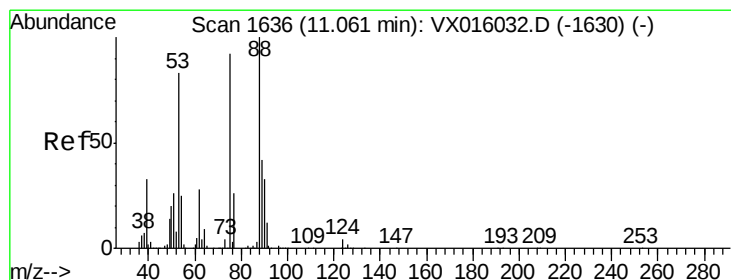
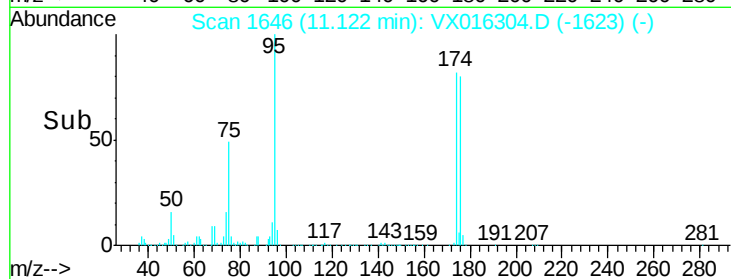
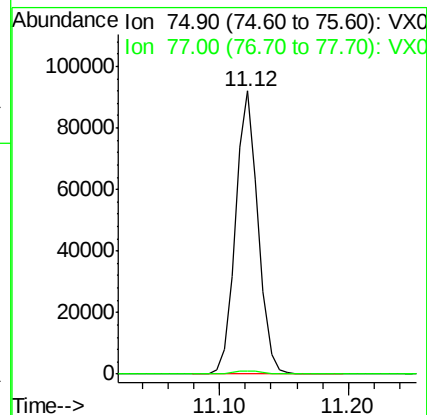
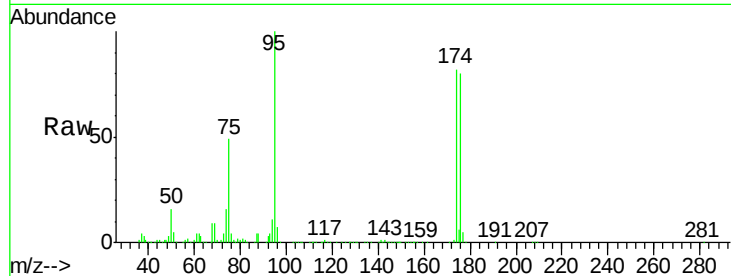
ClientSampled :

Tot Ion: 75 Resp: 111882

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 50.107 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

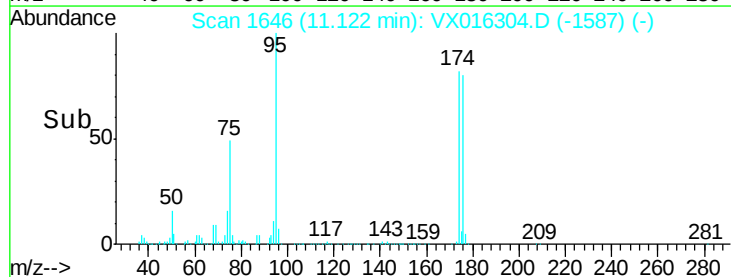
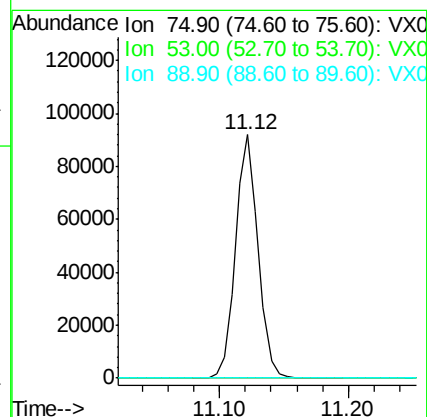
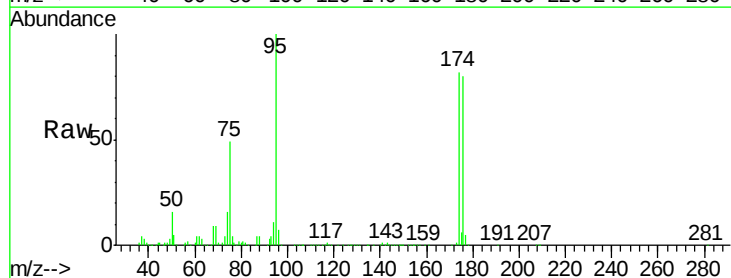
Tgt Ion: 75 Resp: 111882

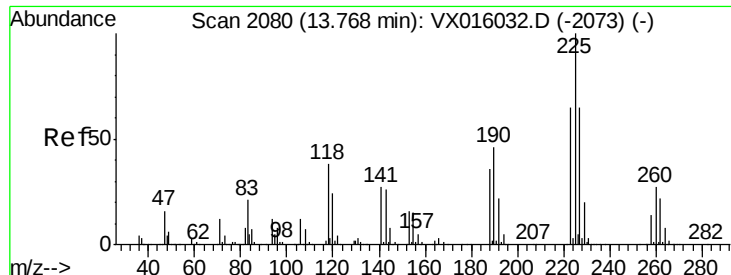
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.624 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016304.D

Acq: 18 May 2020 17:18

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	247
Ion	Ratio	Lower	Upper
225	100		
223	68.4	32.3	96.9
227	62.3	31.8	95.4

