

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016302.D
 Acq On : 18 May 2020 16:33
 Operator : JC/SP
 Sample : L2649-02DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0681DL

Quant Time: May 19 00:47:03 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	5.63	168	284931	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	470551	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	470019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	250810	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	167436	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	
35) Dibromofluoromethane	5.46	113	140200	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
50) Toluene-d8	8.70	98	572948	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
62) 4-Bromofluorobenzene	11.12	95	248138	56.80	ug/l	0.00
Spiked Amount			Recovery	=	113.60%	

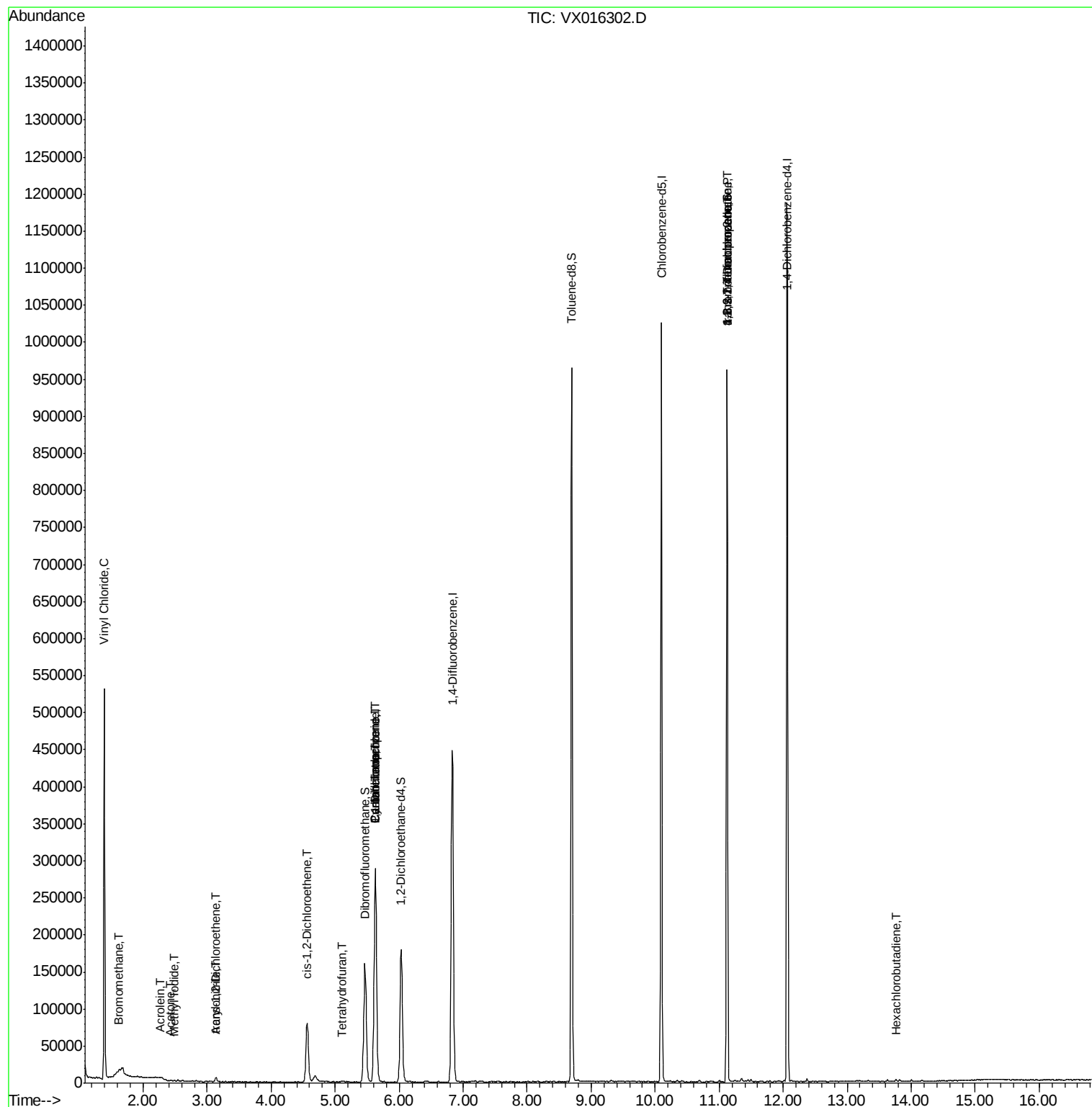
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	300938	80.534	ug/l	99
5) Bromomethane	1.62	94	660	0.350	ug/l #	73
10) Methyl Iodide	2.49	142	765	0.201	ug/l #	98
13) Acrolein	2.28	56	779	1.313	ug/l #	52
15) Acrylonitrile	3.12	53	562	0.286	ug/l	94
16) Acetone	2.43	43	907	0.542	ug/l #	86
21) trans-1,2-Dichloroethene	3.14	96	2529	0.766	ug/l #	80
27) cis-1,2-Dichloroethene	4.56	96	52670	14.596	ug/l	86
29) Tetrahydrofuran	5.10	42	790	0.442	ug/l #	72
31) Cyclohexane	5.62	56	5344	1.026	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20795	4.489	ug/l #	49
38) Carbon Tetrachloride	5.63	117	26910	5.716	ug/l #	14
75) 1,1,2,2-Tetrachloroethane	11.12	83	132	2.088	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	120832	21.230	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	120832	50.594	ug/l #	13
94) Hexachlorobutadiene	13.76	225	504	0.716	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. -0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampleId :

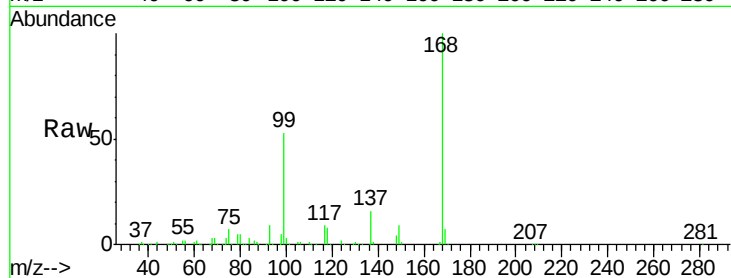
S32-0681DL

Tot Ion:168 Resp: 284931

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

5.63

120000

100000

80000

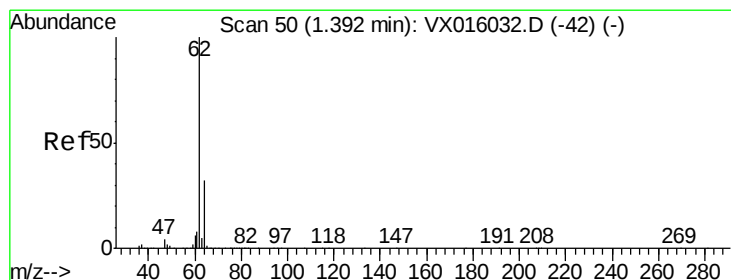
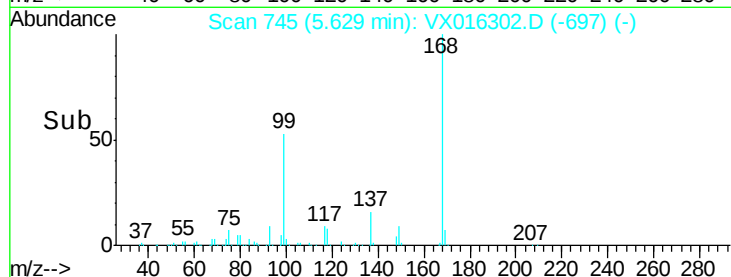
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 80.534 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016302.D

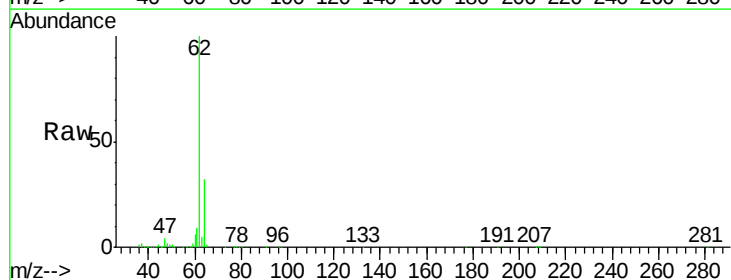
Acq: 18 May 2020 16:33

Tgt Ion: 62 Resp: 300938

Ion Ratio Lower Upper

62 100

64 31.6 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

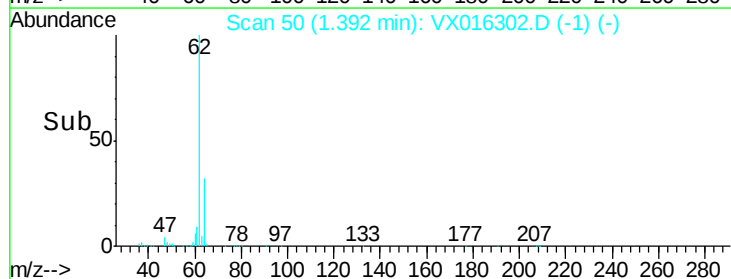
300000

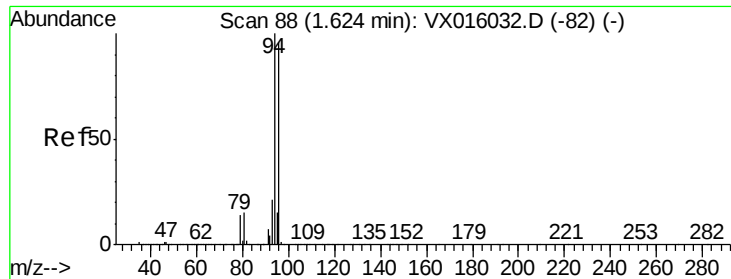
200000

100000

0

Time-->





#5

Bromomethane

Concen: 0.350 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampled :

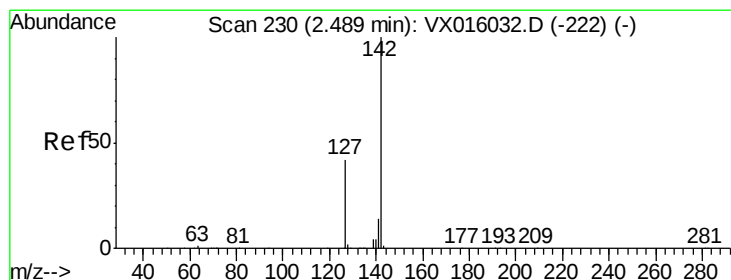
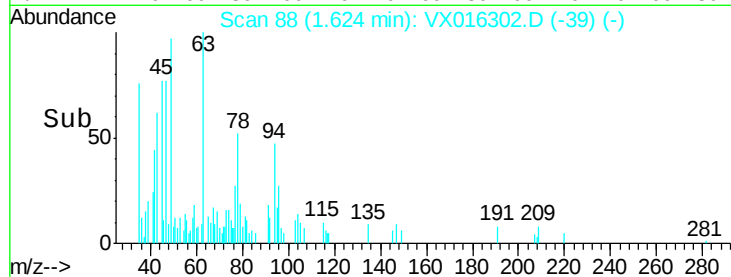
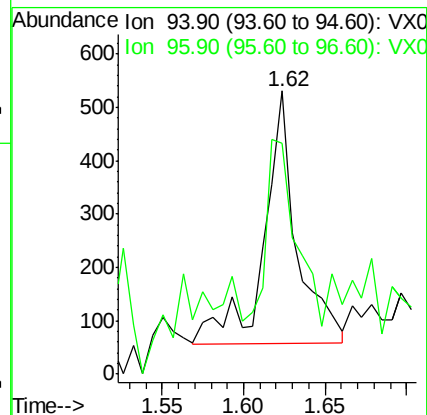
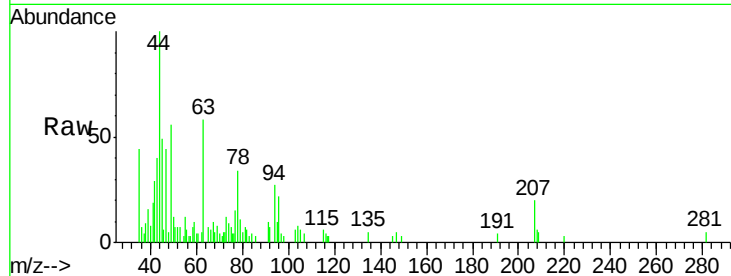
S32-0681DL

Tot Ion: 94 Resp: 660

Ion Ratio Lower Upper

94 100

96 69.9 76.9 115.3#



#10

Methyl Iodide

Concen: 0.201 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

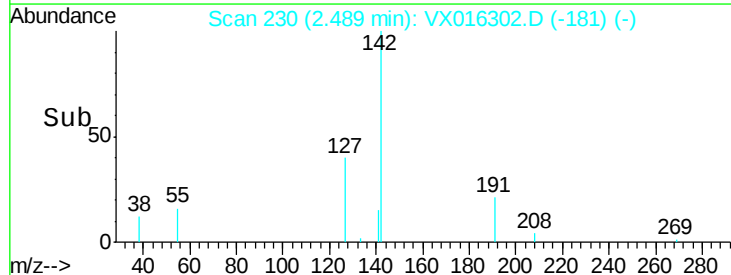
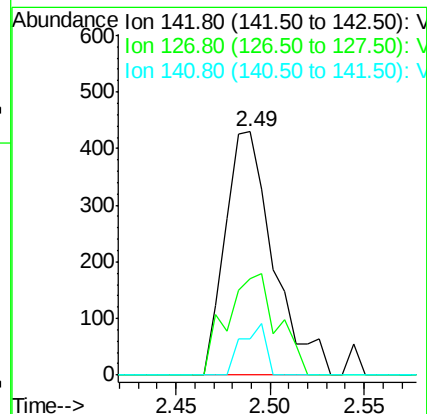
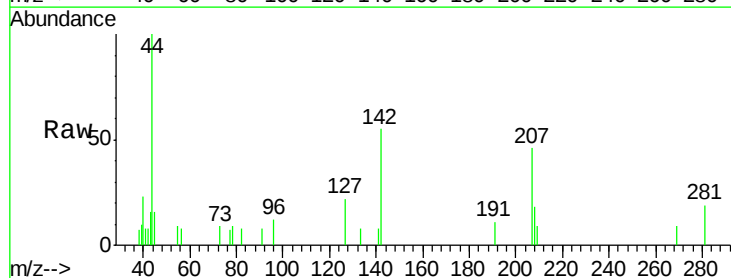
Tgt Ion: 142 Resp: 765

Ion Ratio Lower Upper

142 100

127 43.3 34.6 52.0

141 10.5 11.3 16.9#





#13

Acrolein

Concen: 1.313 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampled :

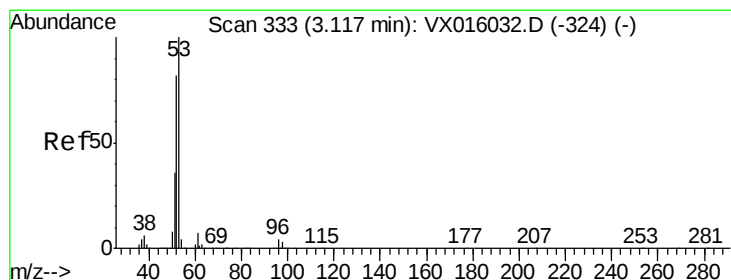
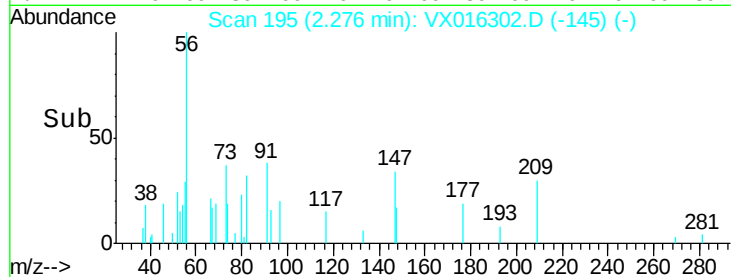
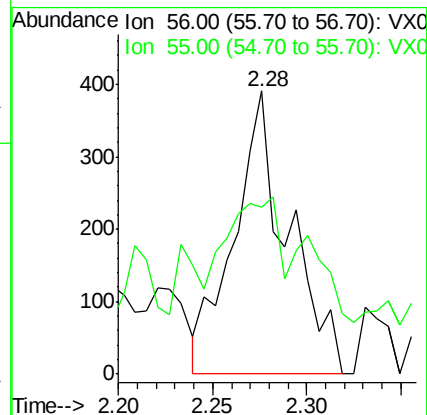
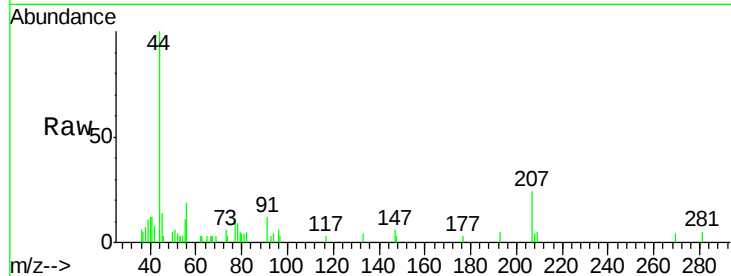
S32-0681DL

Tot Ion: 56 Resp: 779

Ion Ratio Lower Upper

56 100

55 30.8 56.5 84.7#



#15

Acrylonitrile

Concen: 0.286 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

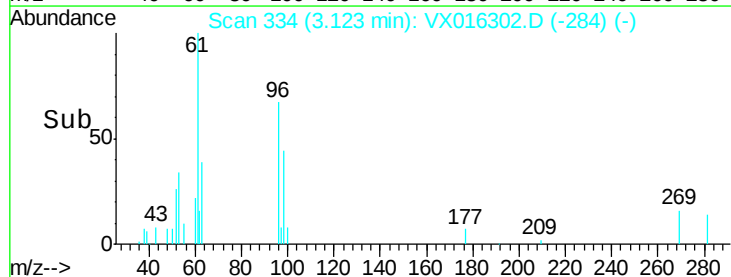
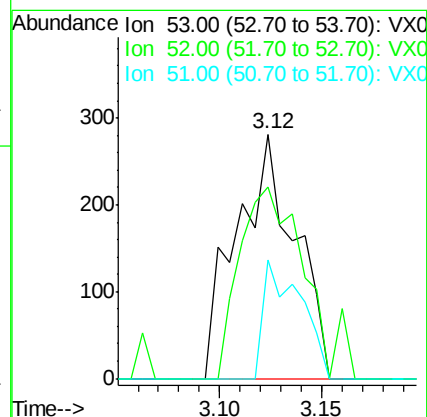
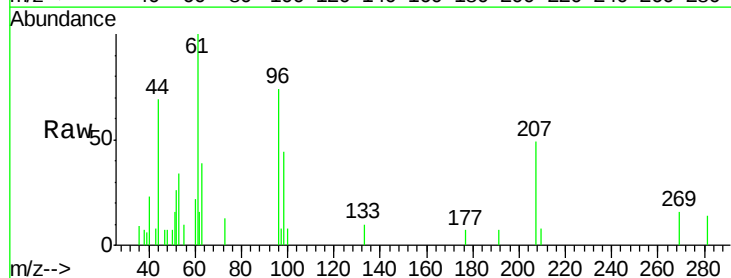
Tgt Ion: 53 Resp: 562

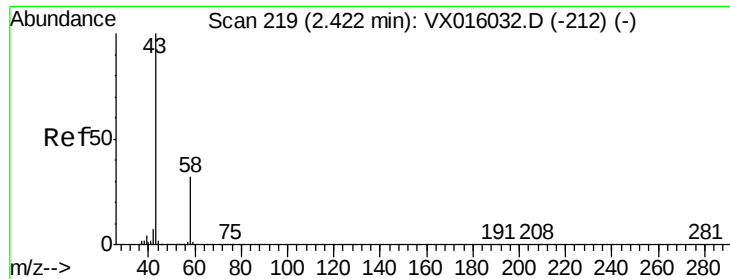
Ion Ratio Lower Upper

53 100

52 87.4 66.1 99.1

51 31.1 28.8 43.2





#16

Acetone

Concen: 0.542 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampled :

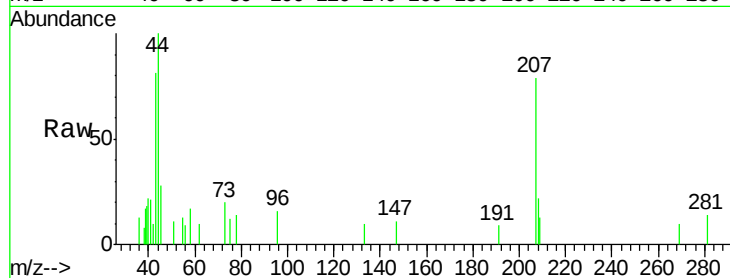
S32-0681DL

Tot Ion: 43 Resp: 907

Ion Ratio Lower Upper

43 100

58 24.0 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

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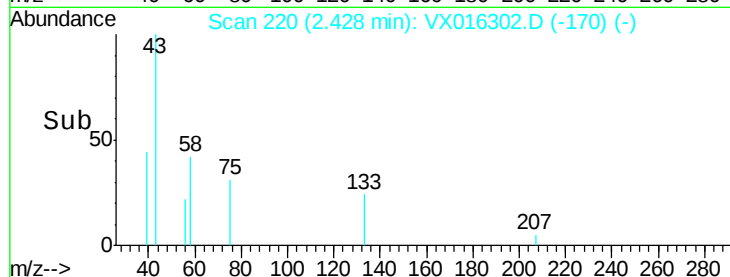
2.43

2.43

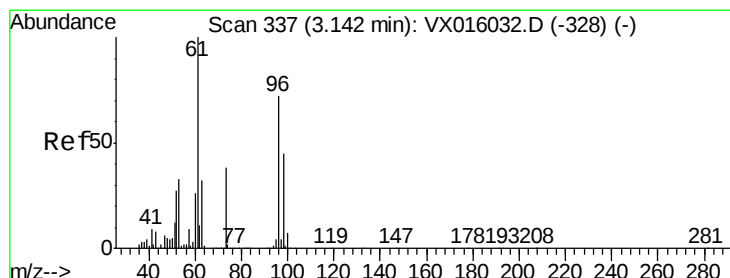
2.43

2.43

2.43



Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.766 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

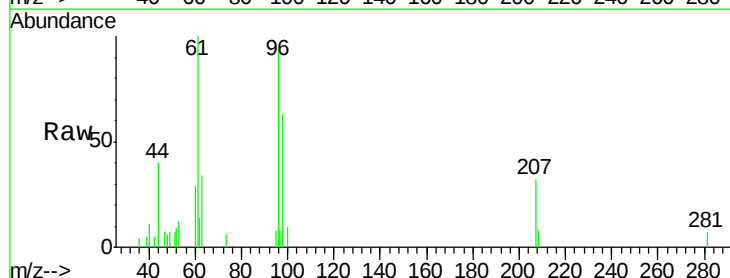
Tgt Ion: 96 Resp: 2529

Ion Ratio Lower Upper

96 100

61 106.7 111.2 166.8#

98 67.2 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

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3.14

3.14

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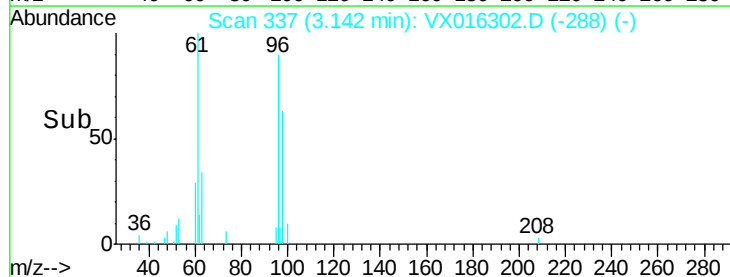
3.14

3.14

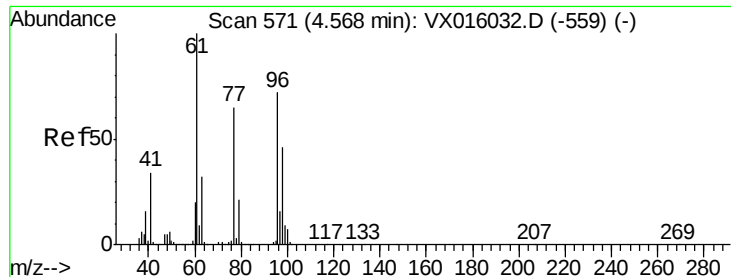
3.14

3.14

3.14



Time-->



#27

cis-1,2-Dichloroethene

Concen: 14.596 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampled :

S32-0681DL

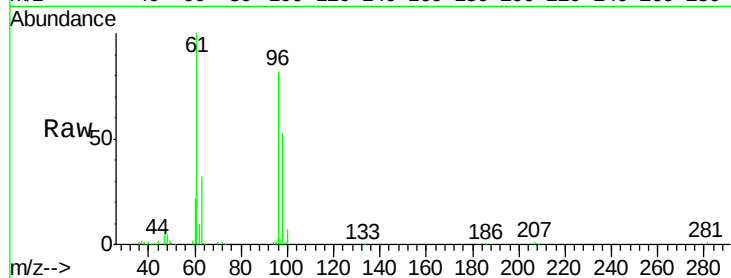
Tot Ion: 96 Resp: 52670

Ion Ratio Lower Upper

96 100

61 123.5 0.0 296.2

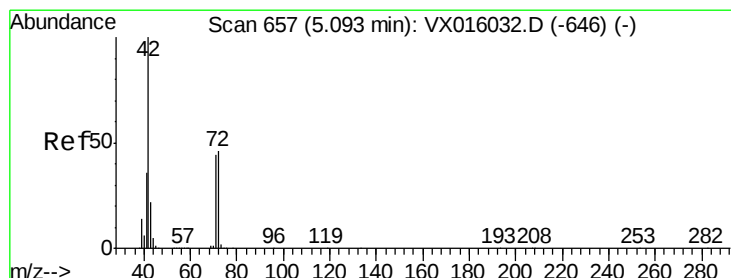
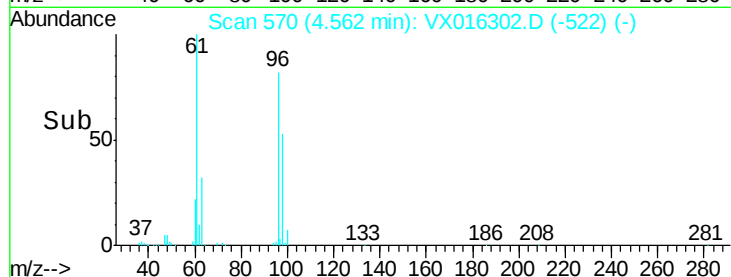
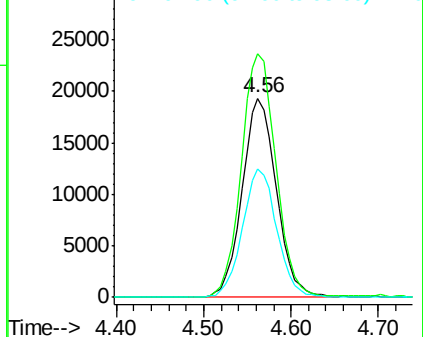
98 64.5 0.0 129.4



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



#29

Tetrahydrofuran

Concen: 0.442 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

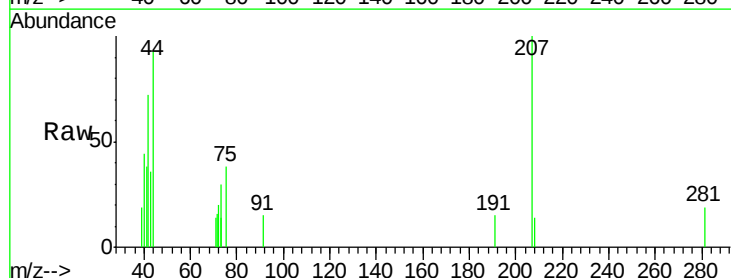
Tgt Ion: 42 Resp: 790

Ion Ratio Lower Upper

42 100

72 21.3 37.1 55.7#

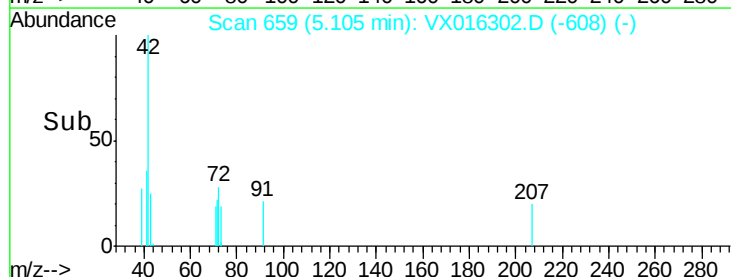
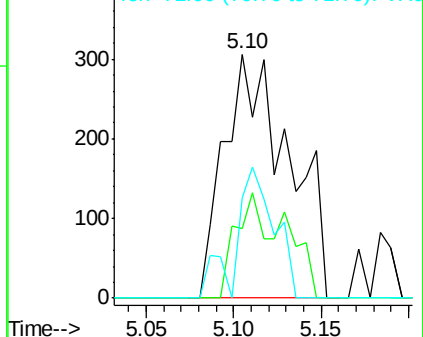
71 32.2 34.5 51.7#

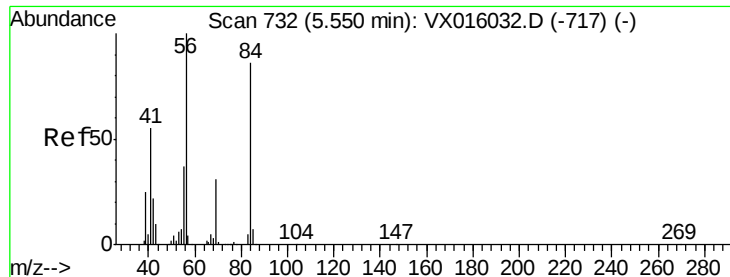


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.026 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

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ClientSampleID :

S32-0681DL

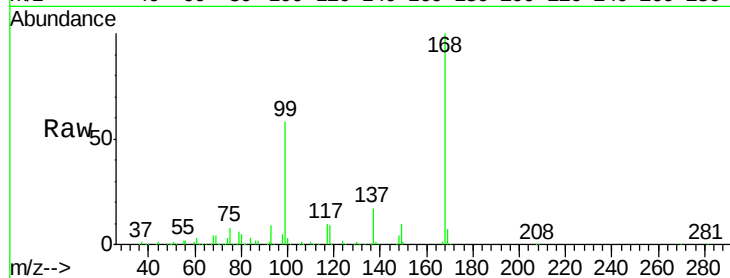
Tot Ion: 56 Resp: 5344

Ion Ratio Lower Upper

56 100

69 197.1 25.0 37.6#

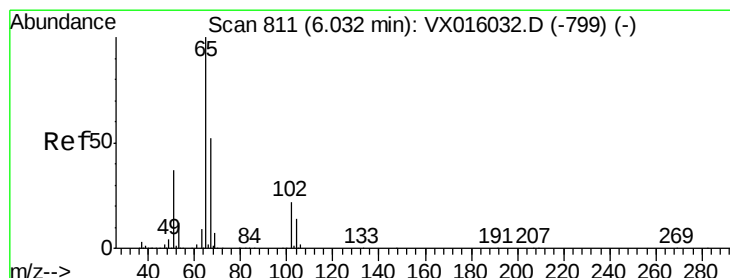
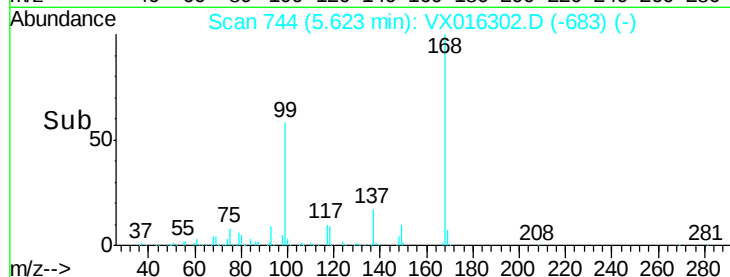
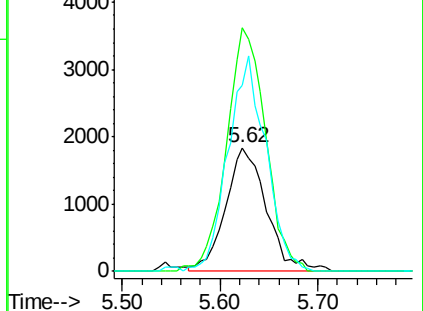
84 150.8 69.0 103.6#



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: 44.657 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016302.D

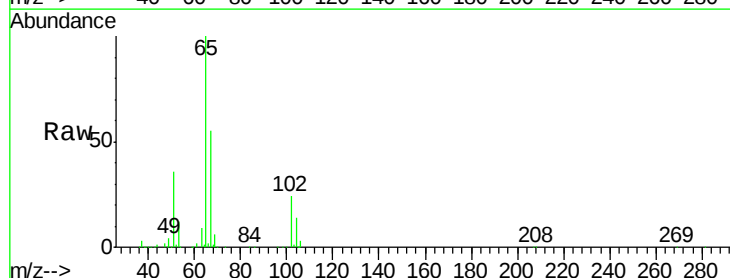
Acq: 18 May 2020 16:33

Tgt Ion: 65 Resp: 167436

Ion Ratio Lower Upper

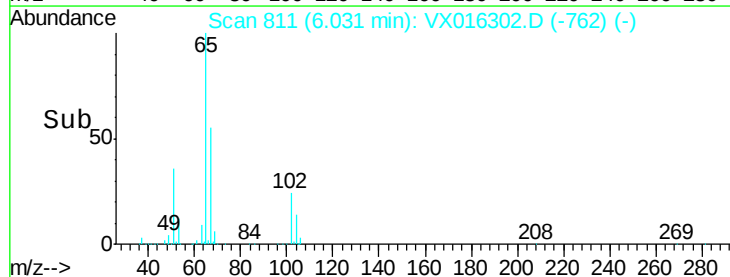
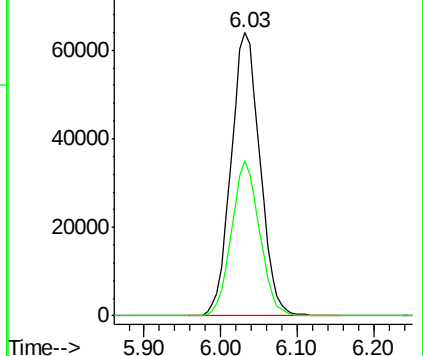
65 100

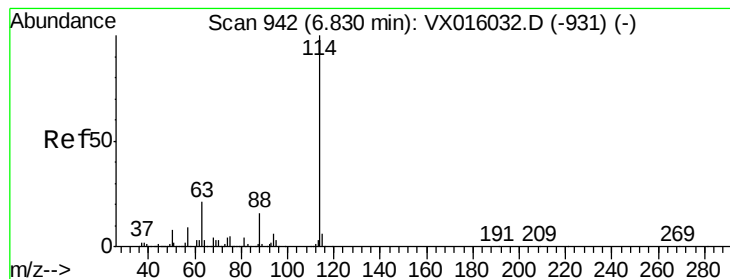
67 52.9 0.0 104.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampled :

S32-0681DL

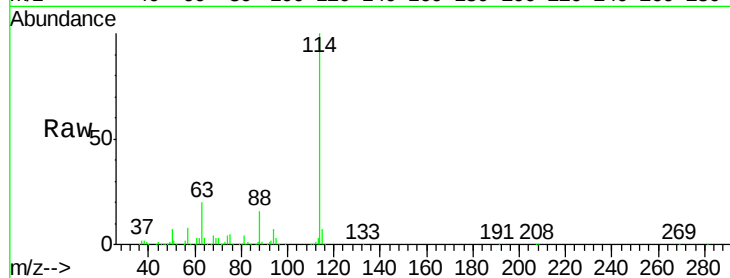
Tot Ion:114 Resp: 470551

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.8

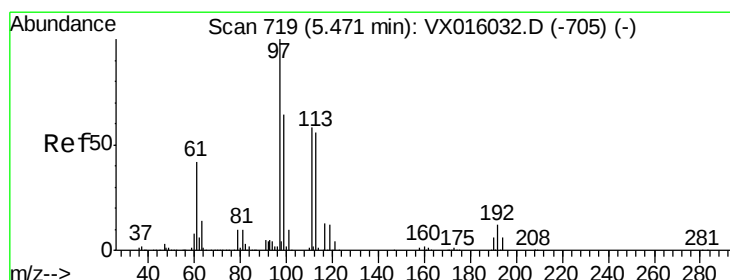
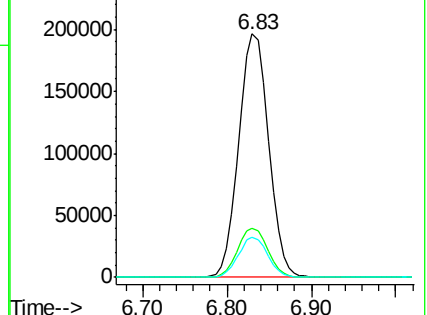
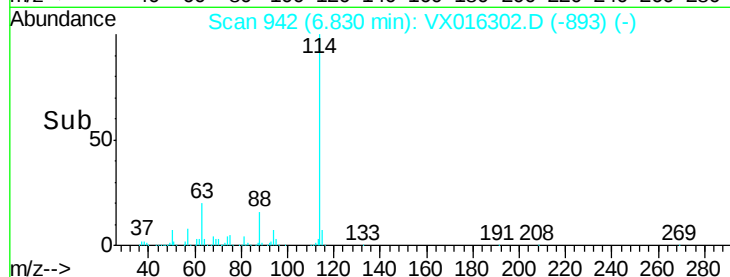
88 16.5 0.0 31.4



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: 47.029 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

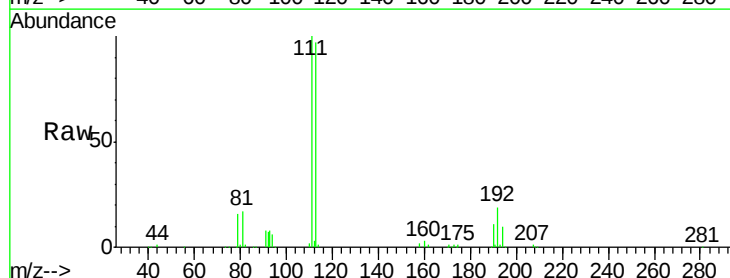
Tgt Ion:113 Resp: 140200

Ion Ratio Lower Upper

113 100

111 103.9 81.6 122.4

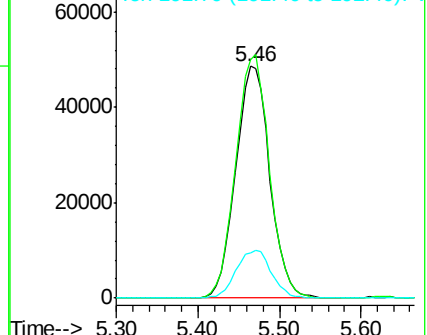
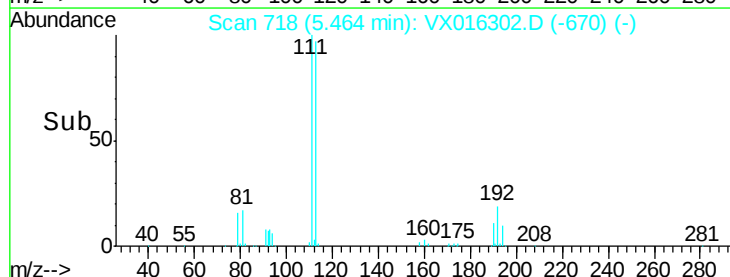
192 21.5 17.0 25.4

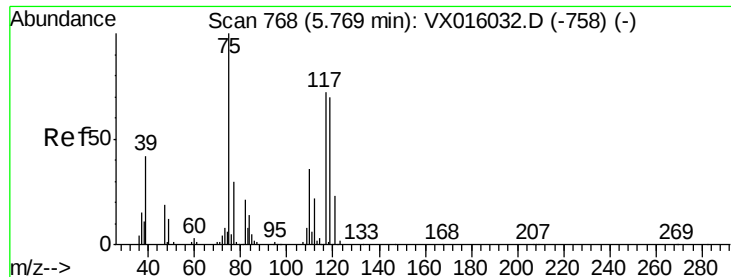


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.489 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampleId :

S32-0681DL

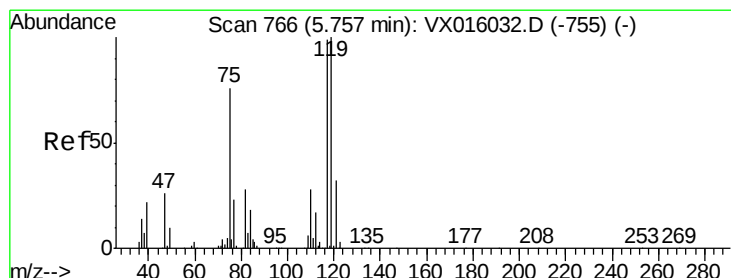
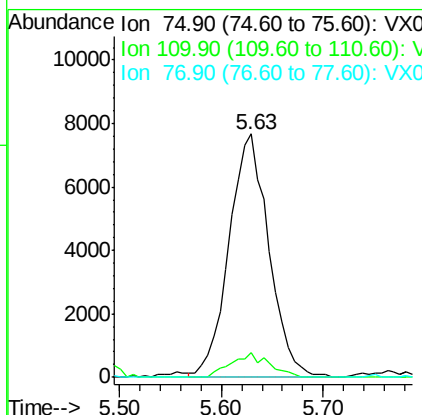
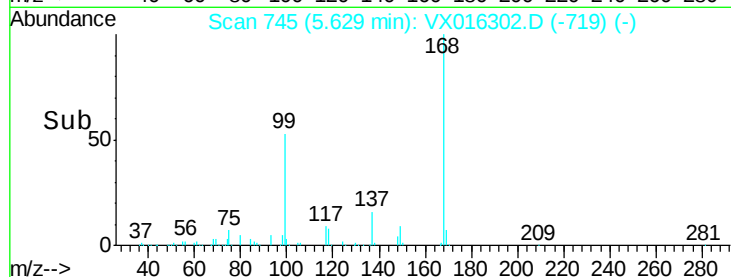
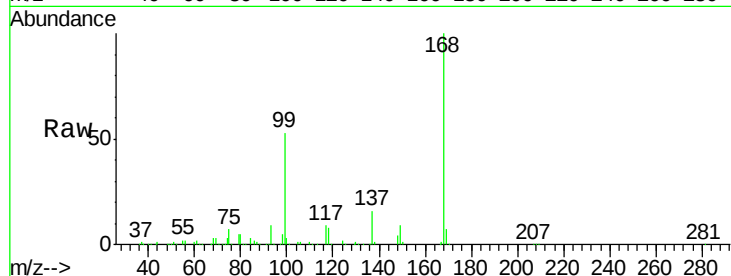
Tot Ion: 75 Resp: 20795

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.716 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

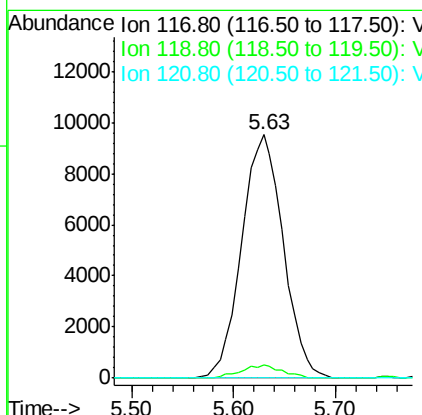
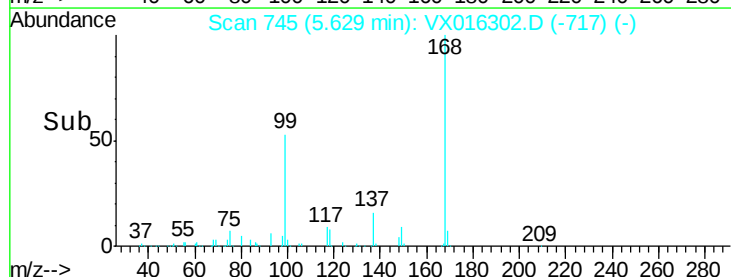
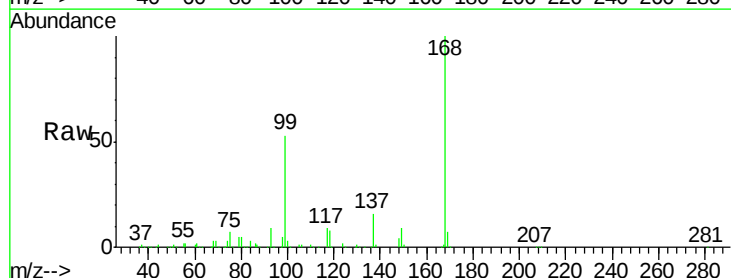
Tgt Ion: 117 Resp: 26910

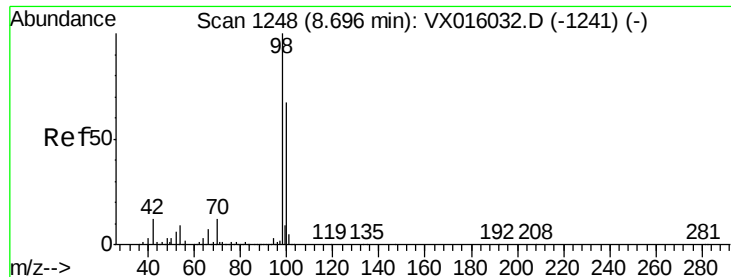
Ion Ratio Lower Upper

117 100

119 5.4 80.3 120.5#

121 0.0 25.7 38.5#





#50

Toluene-d8

Concen: 49.880 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampleId :

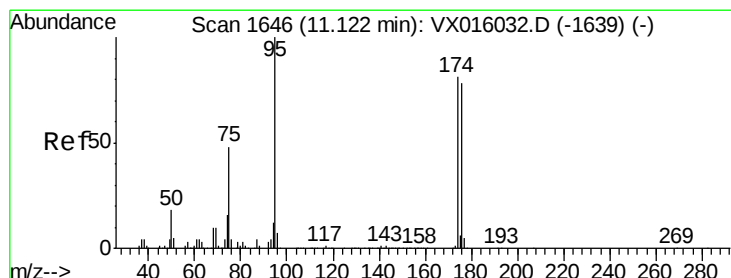
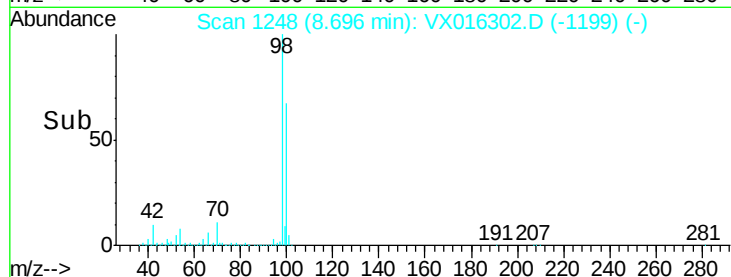
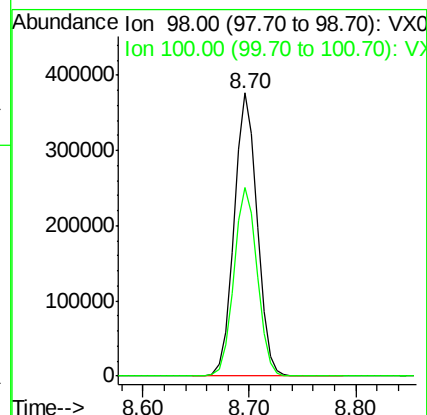
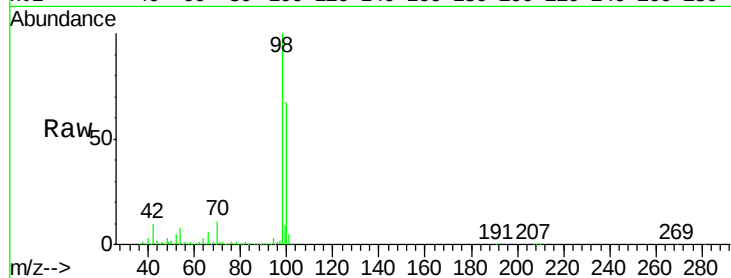
S32-0681DL

Tot Ion: 98 Resp: 572948

Ion Ratio Lower Upper

98 100

100 67.2 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 56.796 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

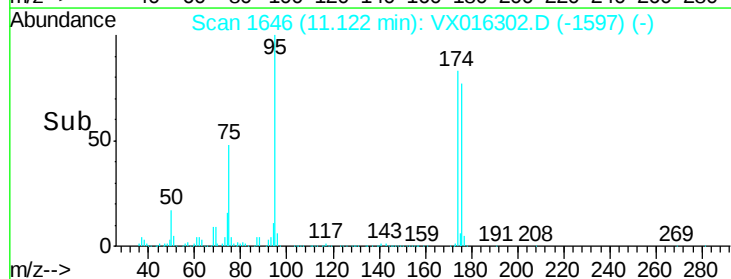
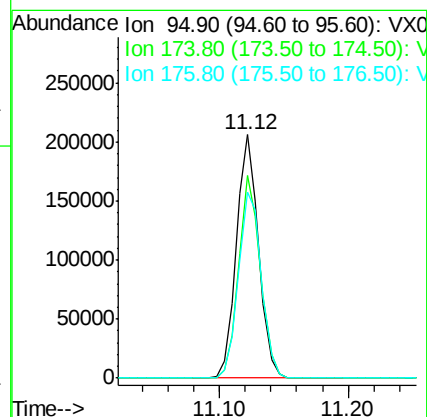
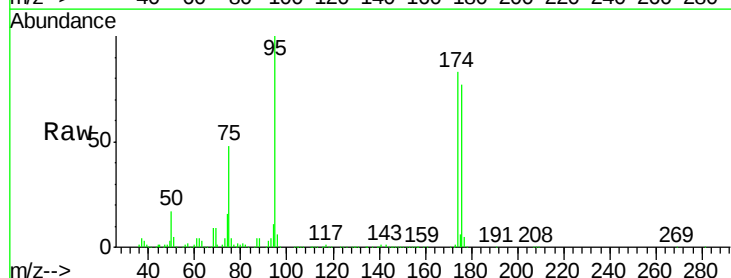
Tgt Ion: 95 Resp: 248138

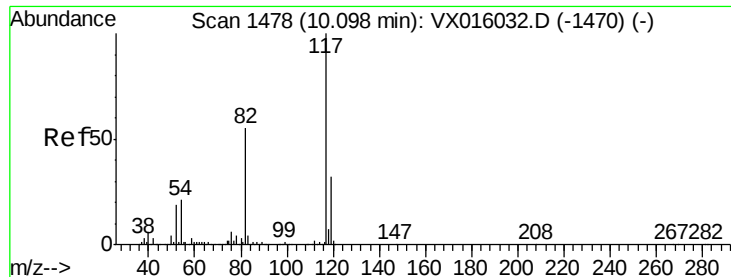
Ion Ratio Lower Upper

95 100

174 81.6 0.0 159.4

176 79.3 0.0 157.6

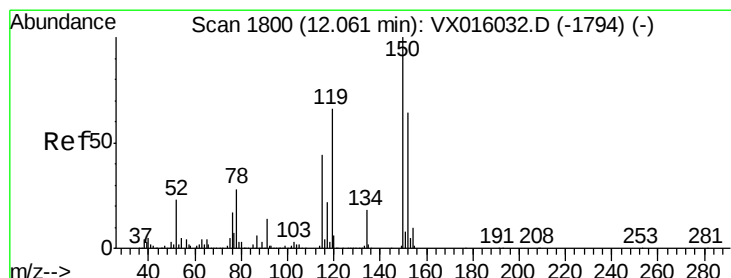
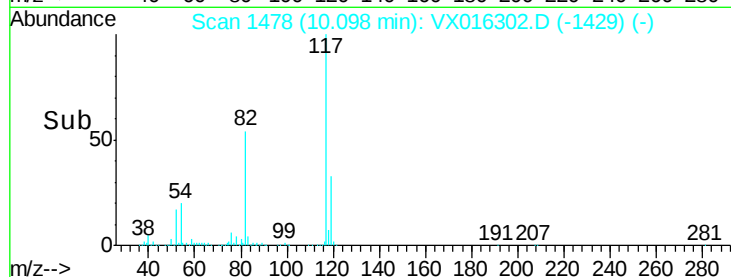
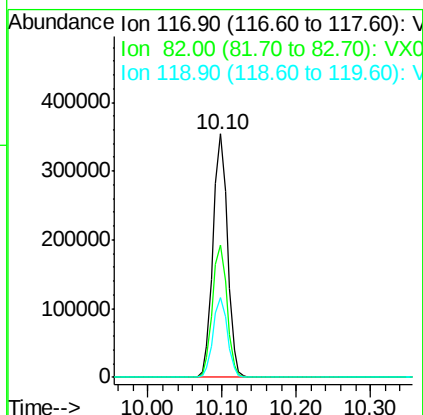
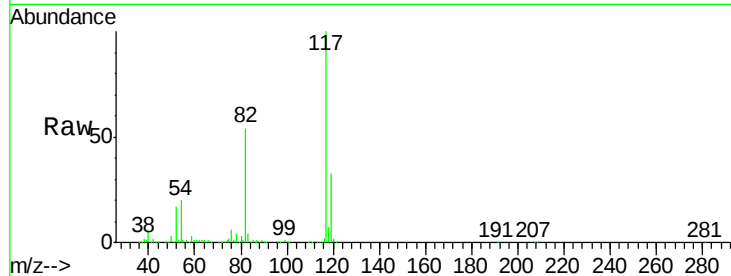




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016302.D
Acq: 18 May 2020 16:33

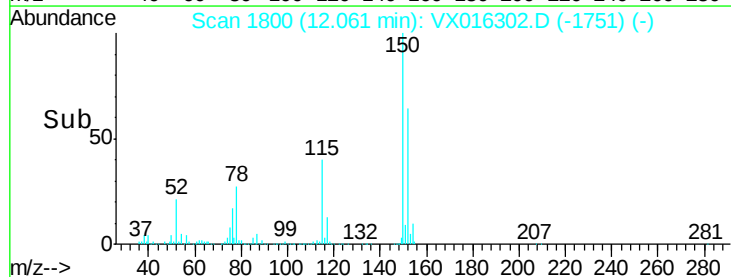
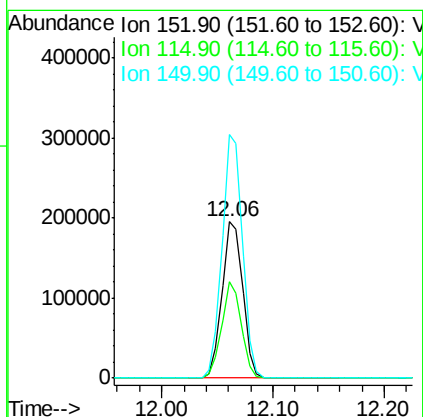
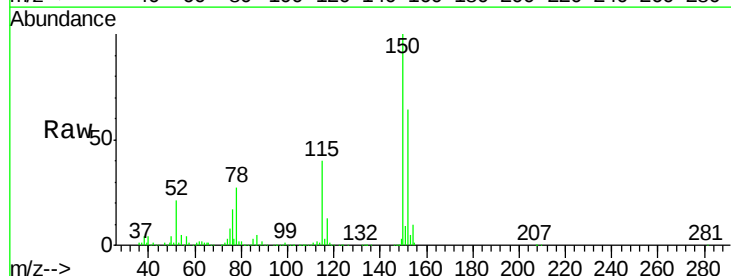
Instrument :
MSVOA_X
ClientSampleId :
S32-0681DL

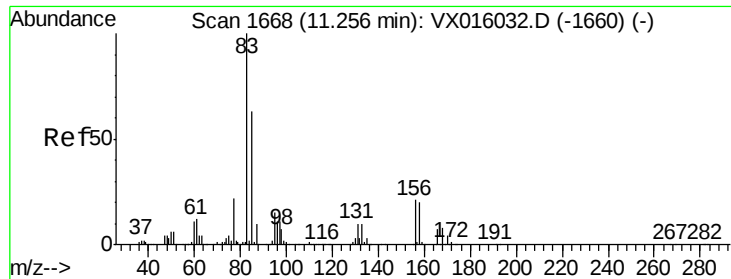
Tot Ion:117 Resp: 470019
Ion Ratio Lower Upper
117 100
82 54.5 44.4 66.6
119 32.6 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016302.D
Acq: 18 May 2020 16:33

Tgt Ion:152 Resp: 250810
Ion Ratio Lower Upper
152 100
115 58.6 41.3 124.1
150 153.9 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.088 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampleID :

S32-0681DL

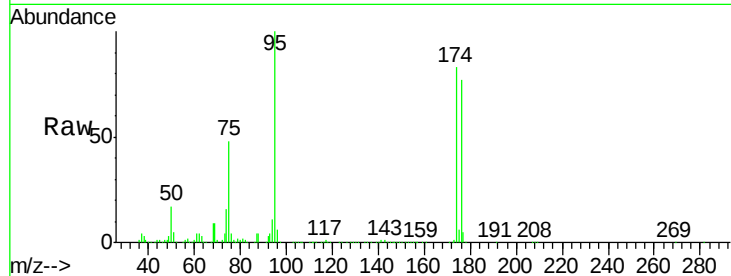
Tot Ion: 83 Resp: 132

Ion Ratio Lower Upper

83 100

131 262.1 5.1 15.4#

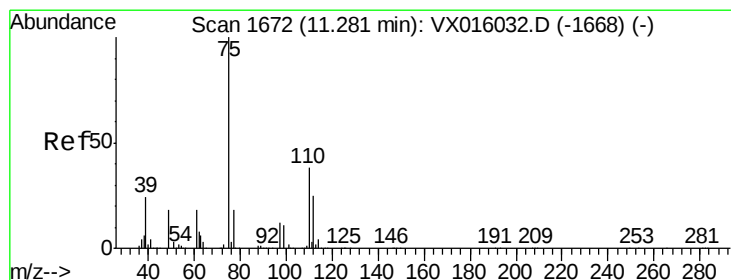
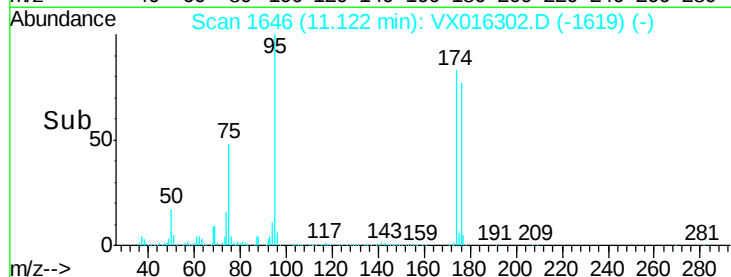
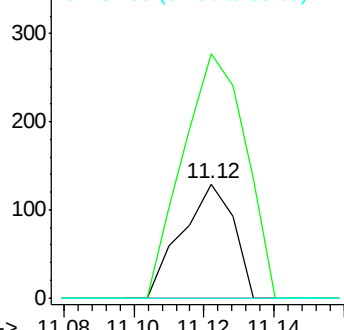
85 0.0 32.0 96.0#



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: 21.230 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016302.D

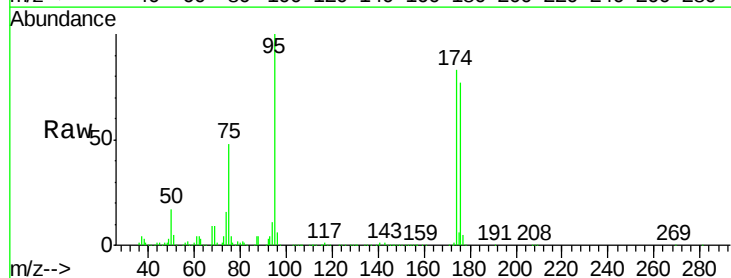
Acq: 18 May 2020 16:33

Tgt Ion: 75 Resp: 120832

Ion Ratio Lower Upper

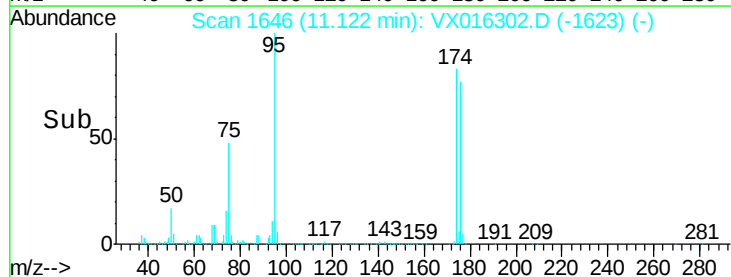
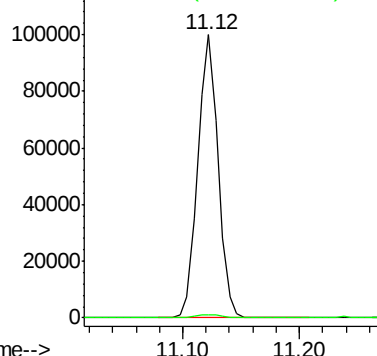
75 100

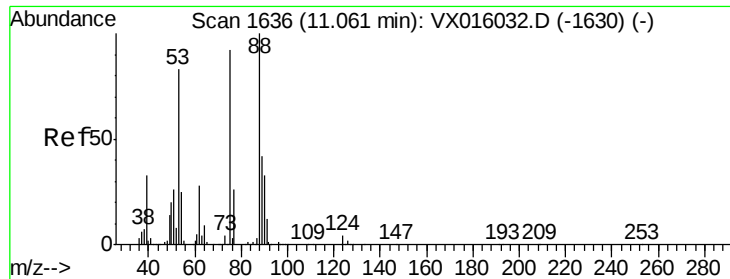
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 50.594 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

Instrument :

MSVOA_X

ClientSampled :

S32-0681DL

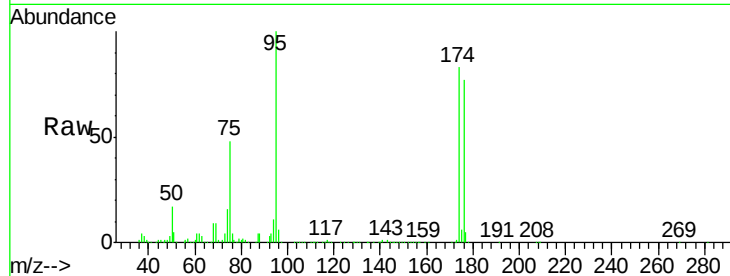
Tot Ion: 75 Resp: 120832

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

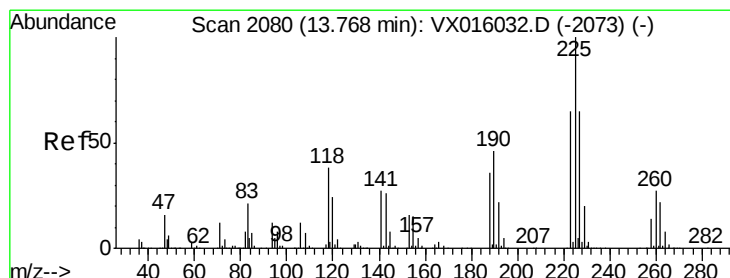
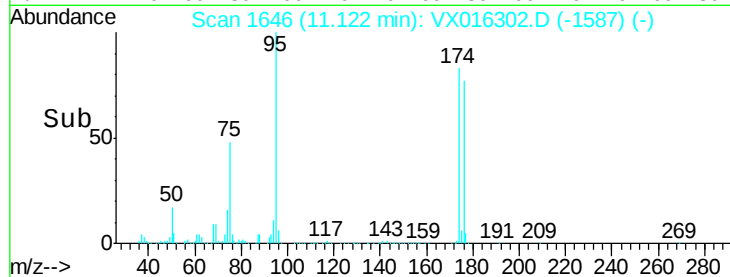
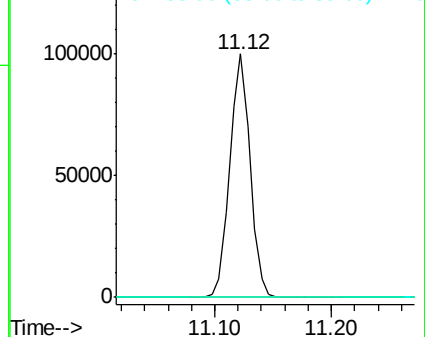
89 0.0 36.7 55.1#



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



#94

Hexachlorobutadiene

Concen: 0.716 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016302.D

Acq: 18 May 2020 16:33

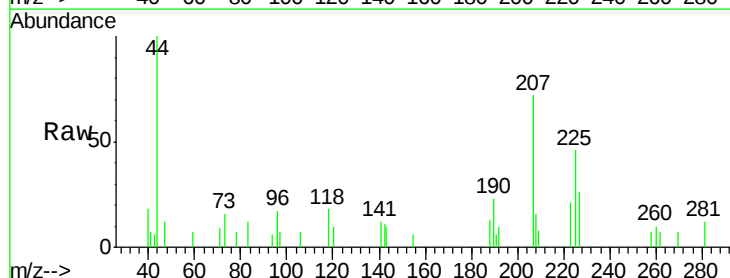
Tgt Ion: 225 Resp: 504

Ion Ratio Lower Upper

225 100

223 61.1 32.3 96.9

227 61.7 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

