

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016303.D
 Acq On : 18 May 2020 16:55
 Operator : JC/SP
 Sample : L2649-03DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0682DL

Quant Time: May 19 00:47:28 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	261167	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	434657	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	433260	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	227363	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	155337	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	
35) Dibromofluoromethane	5.46	113	129772	47.13	ug/l	0.00
Spiked Amount			Recovery	=	94.26%	
50) Toluene-d8	8.70	98	528924	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
62) 4-Bromofluorobenzene	11.12	95	225636	55.91	ug/l	0.00
Spiked Amount			Recovery	=	111.82%	

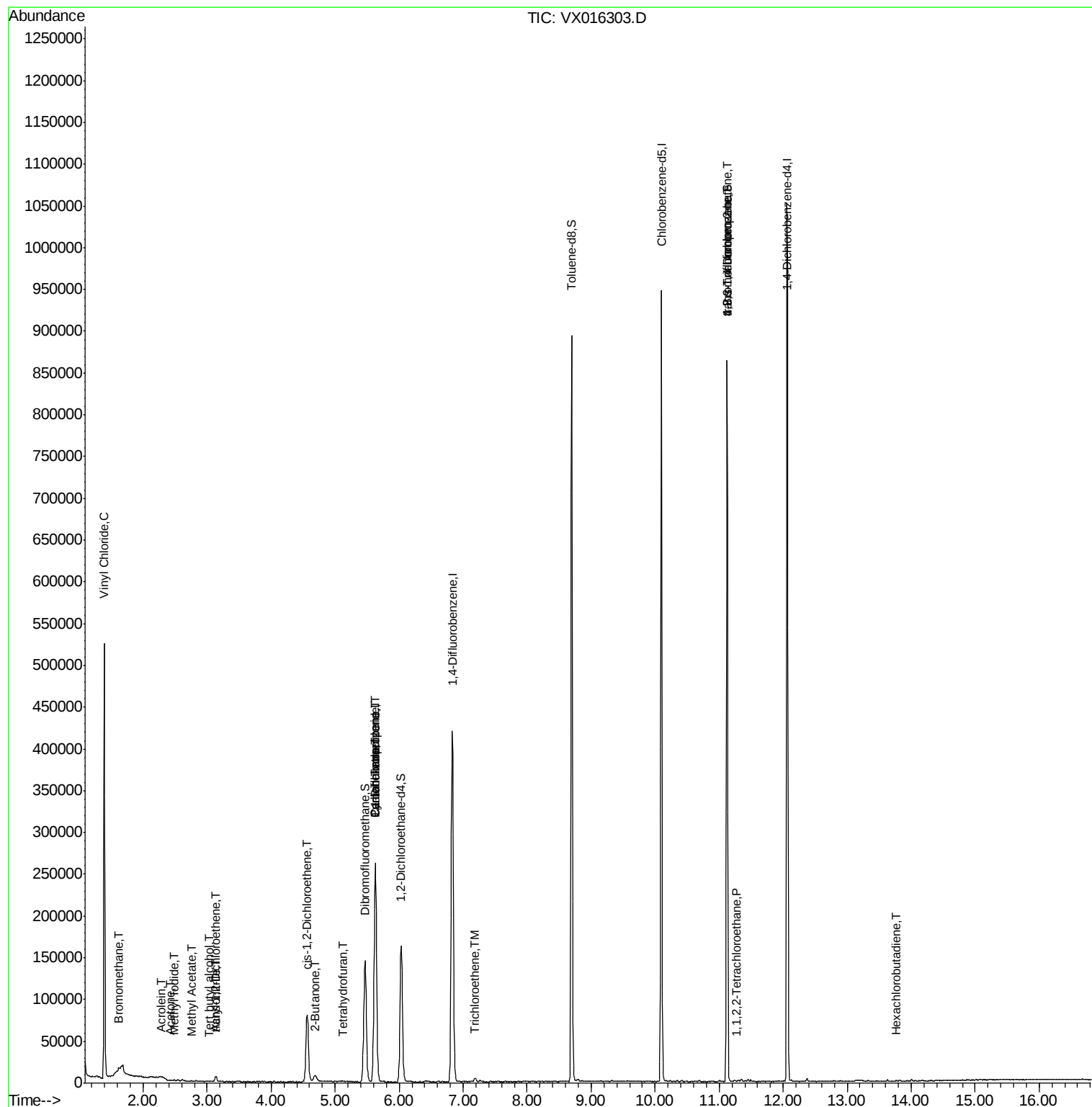
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	296645	86.609	ug/l	99
5) Bromomethane	1.62	94	463	0.268	ug/l	87
10) Methyl Iodide	2.49	142	801	0.230	ug/l #	93
11) Tert butyl alcohol	3.04	59	419	0.482	ug/l #	72
13) Acrolein	2.28	56	819	1.506	ug/l #	65
15) Acrylonitrile	3.14	53	512	0.284	ug/l #	74
16) Acetone	2.42	43	836	0.545	ug/l #	70
18) Methyl Acetate	2.75	43	867	0.230	ug/l	95
21) trans-1,2-Dichloroethene	3.14	96	2796	0.924	ug/l	91
25) 2-Butanone	4.68	43	693	0.280	ug/l #	48
27) cis-1,2-Dichloroethene	4.56	96	55046	16.643	ug/l	85
29) Tetrahydrofuran	5.12	42	899	0.549	ug/l #	31
31) Cyclohexane	5.62	56	4831	1.012	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	19333	4.519	ug/l #	50
38) Carbon Tetrachloride	5.63	117	24908	5.727	ug/l #	13
44) Trichloroethene	7.19	130	1464	0.329	ug/l	75
75) 1,1,2,2-Tetrachloroethane	11.26	83	23	2.056	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	109072	21.140	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	109072	50.379	ug/l #	13
94) Hexachlorobutadiene	13.77	225	299	0.649	ug/l	91

(#) = 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: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

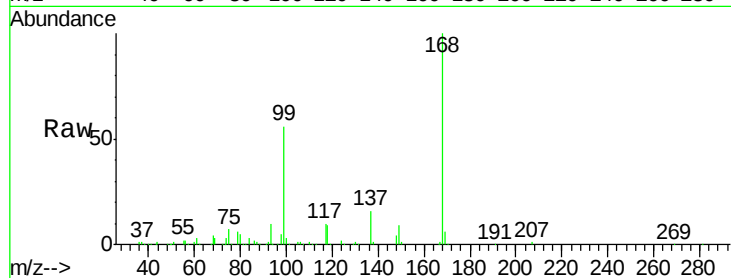
S32-0682DL

Tot Ion:168 Resp: 261167

Ion Ratio Lower Upper

168 100

99 56.2 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

100000

80000

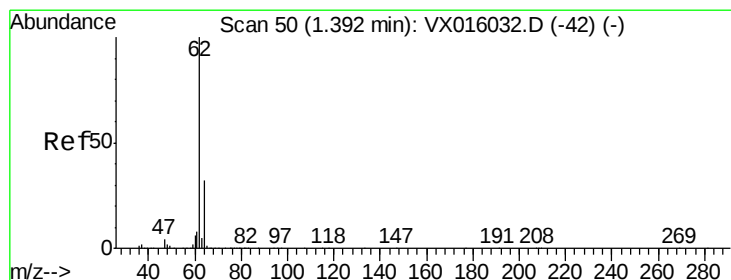
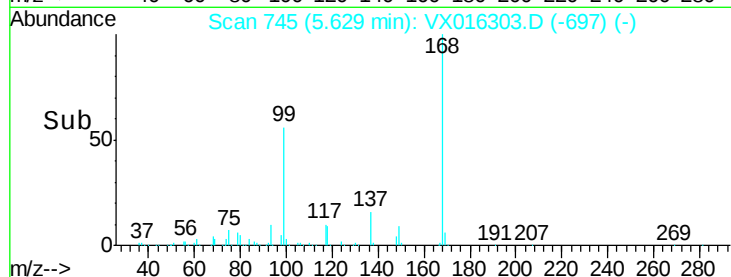
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#4

Vinyl Chloride

Concen: 86.609 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016303.D

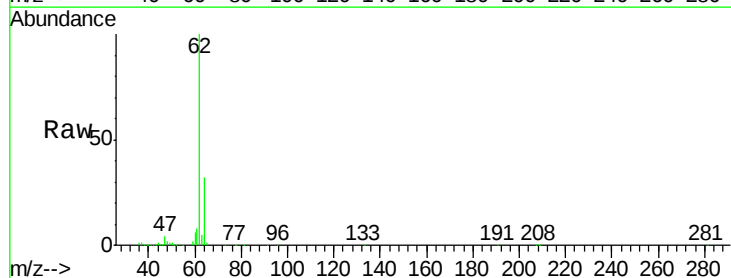
Acq: 18 May 2020 16:55

Tgt Ion: 62 Resp: 296645

Ion Ratio Lower Upper

62 100

64 31.8 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

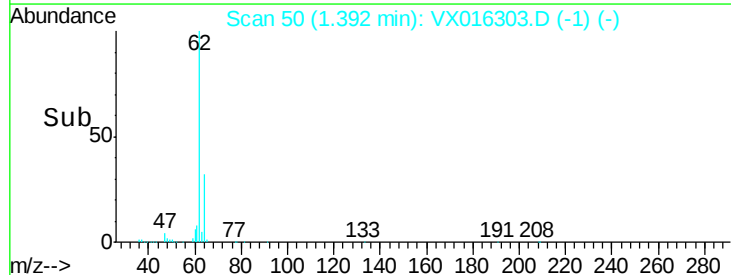
300000

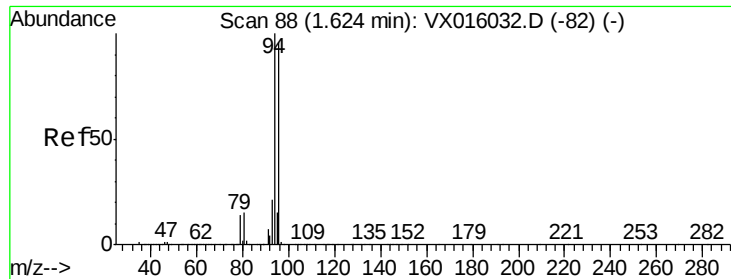
200000

100000

0

Time--> 1.30 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.268 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampled :

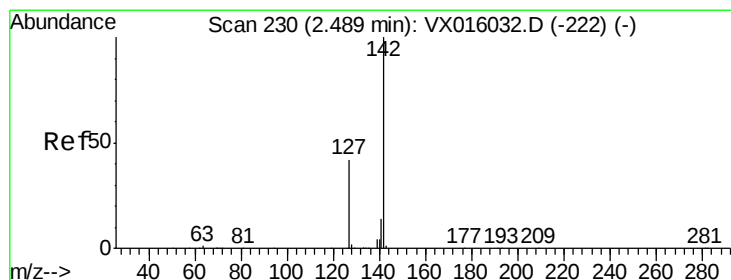
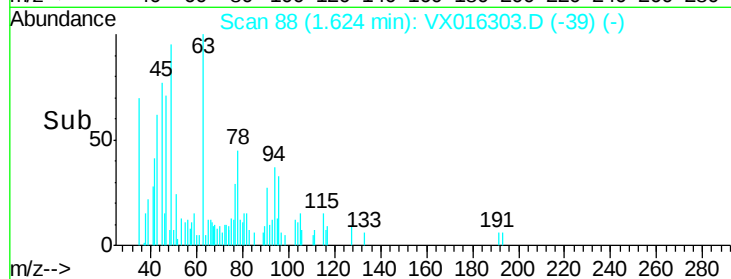
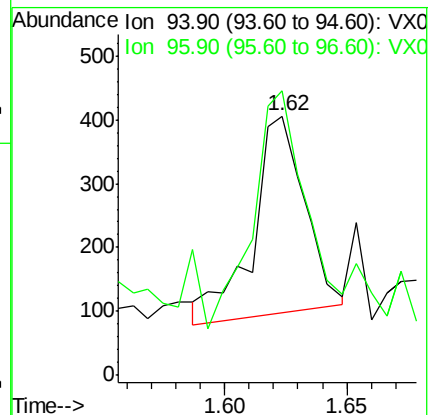
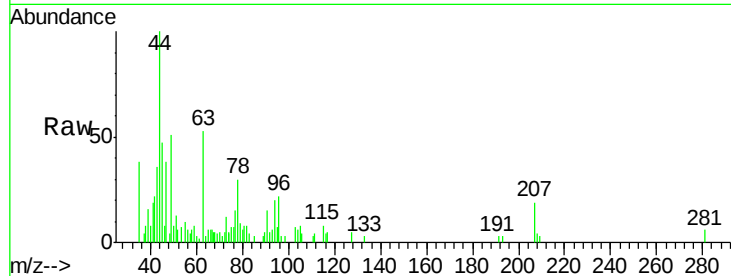
S32-0682DL

Tot Ion: 94 Resp: 463

Ion Ratio Lower Upper

94 100

96 109.2 76.9 115.3



#10

Methyl Iodide

Concen: 0.230 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

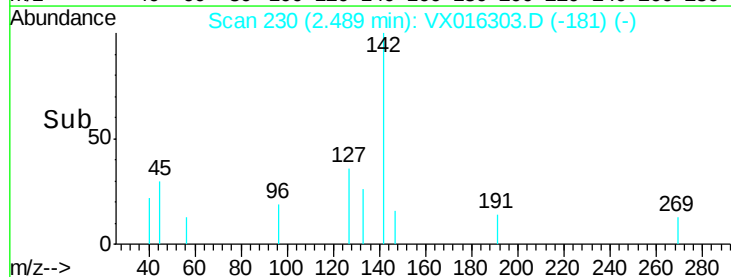
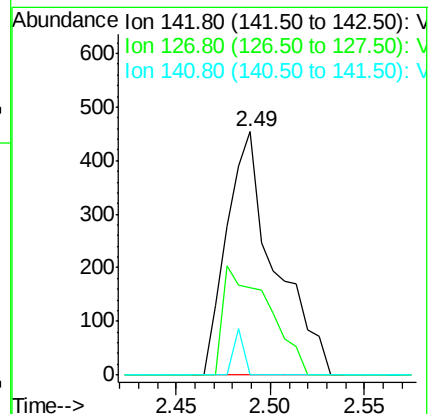
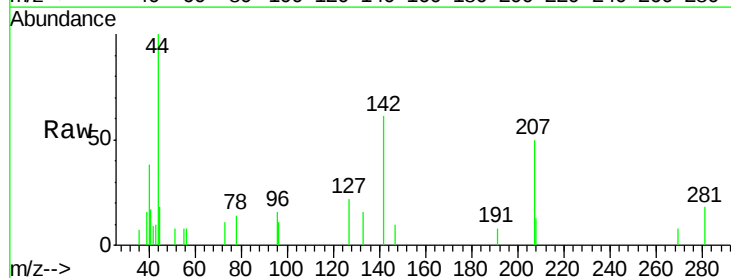
Tgt Ion: 142 Resp: 801

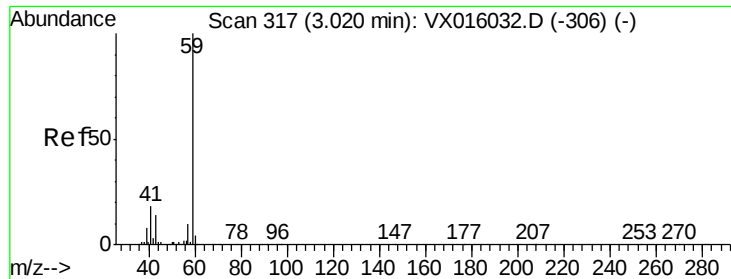
Ion Ratio Lower Upper

142 100

127 42.3 34.6 52.0

141 4.0 11.3 16.9#

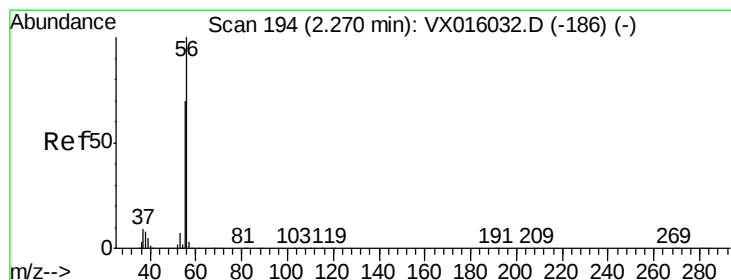
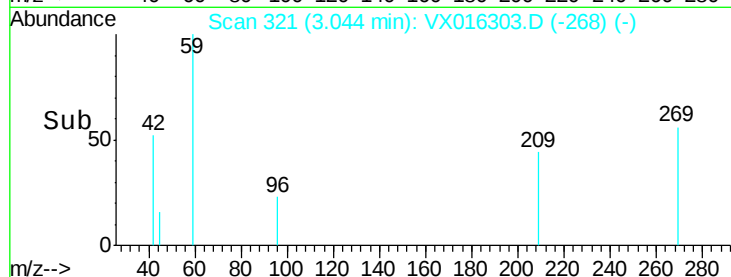
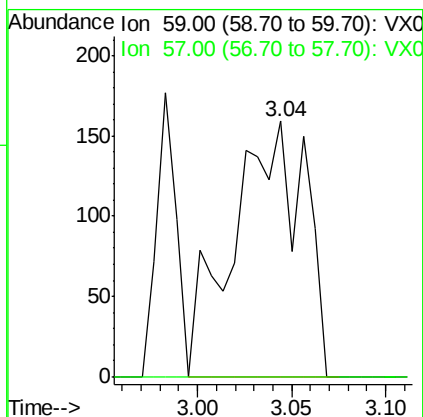
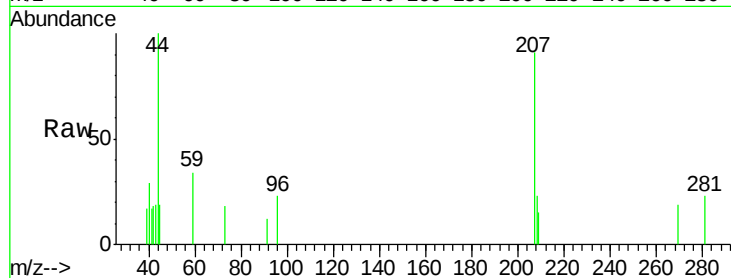




#11
Tert butvl alcohol
Concen: 0.482 ug/l
RT: 3.04 min Scan# 321
Delta R.T. 0.02 min
Lab File: VX016303.D
Acq: 18 May 2020 16:55

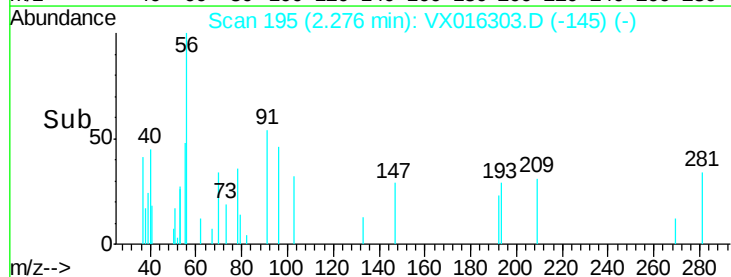
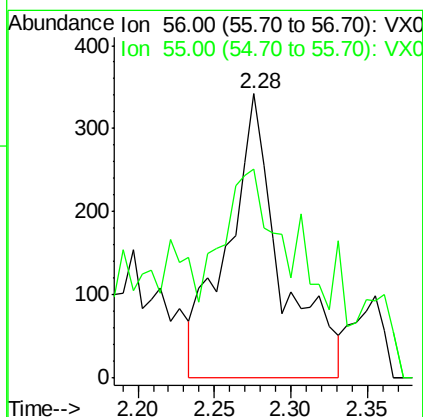
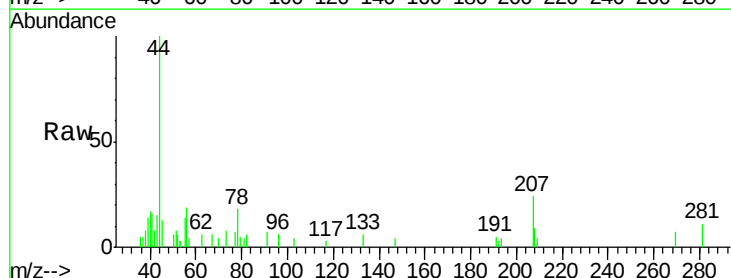
Instrument :
MSVOA_X
ClientSampleId :
S32-0682DL

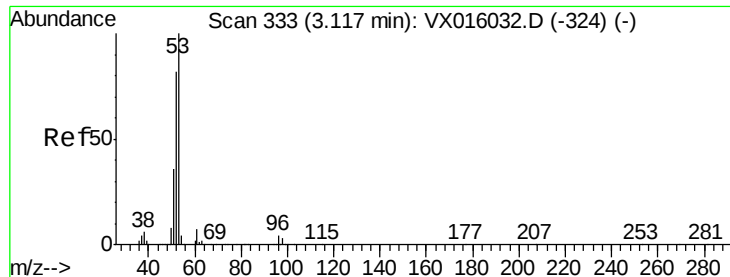
Tot Ion: 59 Resp: 419
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 1.506 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016303.D
Acq: 18 May 2020 16:55

Tgt Ion: 56 Resp: 819
Ion Ratio Lower Upper
56 100
55 41.8 56.5 84.7#





#15

Acrylonitrile

Concen: 0.284 ug/l

RT: 3.14 min Scan# 336

Delta R.T. 0.02 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleID :

S32-0682DL

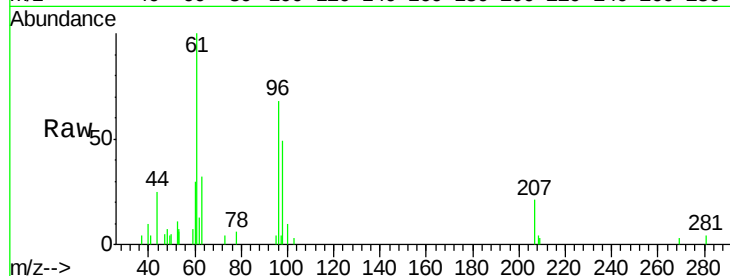
Tot Ion: 53 Resp: 512

Ion Ratio Lower Upper

53 100

52 92.8 66.1 99.1

51 0.0 28.8 43.2#



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

3.14

250

200

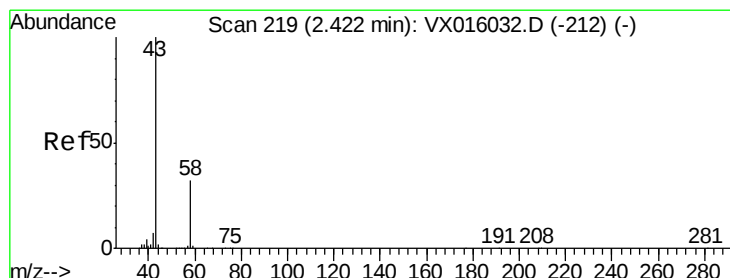
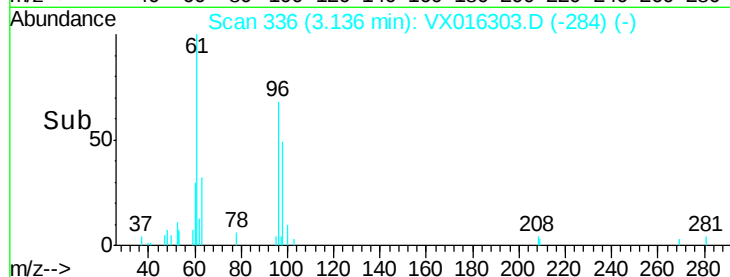
150

100

50

0

Time-->



#16

Acetone

Concen: 0.545 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016303.D

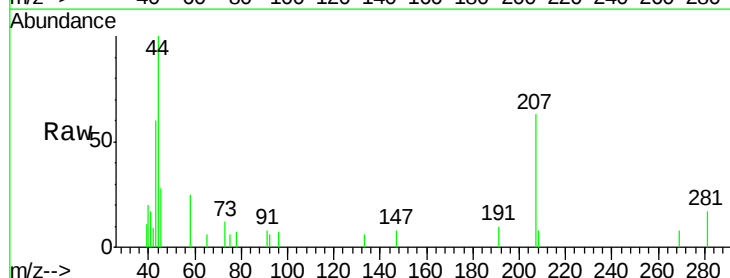
Acq: 18 May 2020 16:55

Tgt Ion: 43 Resp: 836

Ion Ratio Lower Upper

43 100

58 48.1 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

600

500

400

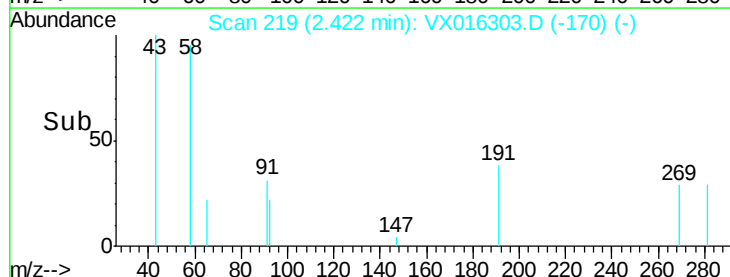
300

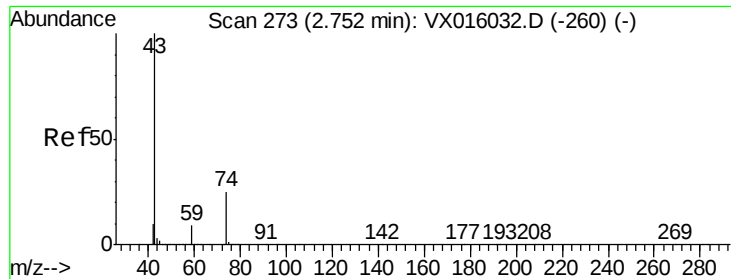
200

100

0

Time-->

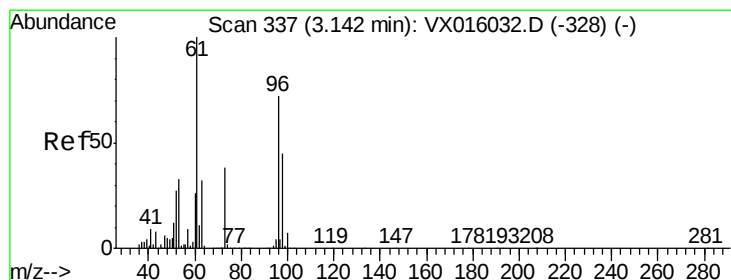
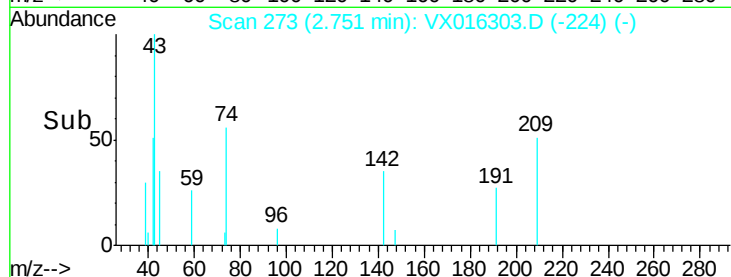
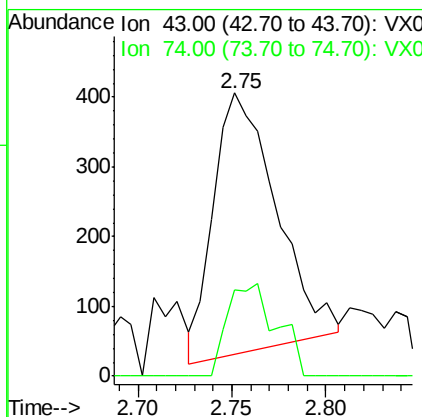
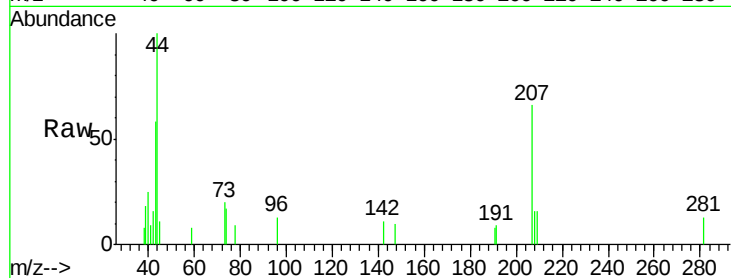




#18
Methvl Acetate
Concen: 0.230 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016303.D
Acq: 18 May 2020 16:55

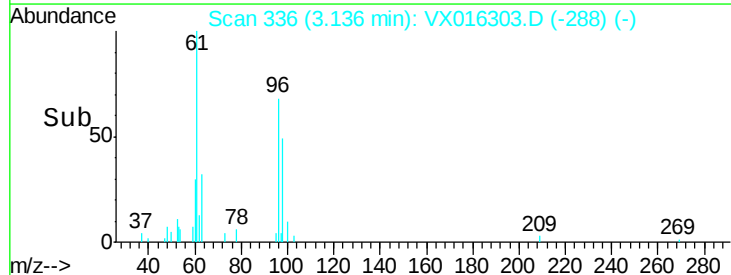
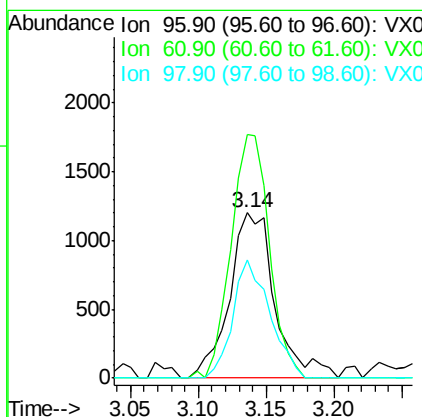
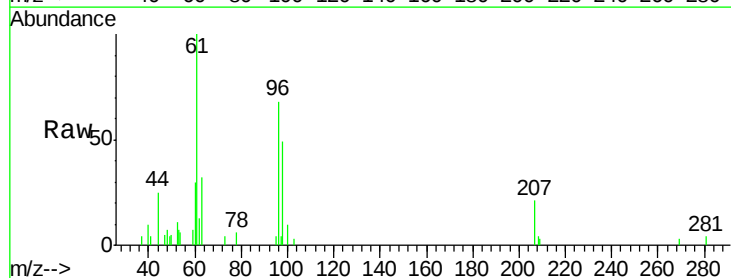
Instrument :
MSVOA_X
ClientSampled :
S32-0682DL

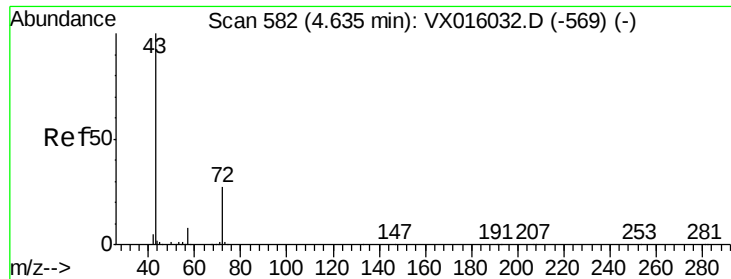
Tot Ion: 43 Resp: 867
Ion Ratio Lower Upper
43 100
74 27.7 20.2 30.2



#21
trans-1,2-Dichloroethene
Concen: 0.924 ug/l
RT: 3.14 min Scan# 336
Delta R.T. -0.01 min
Lab File: VX016303.D
Acq: 18 May 2020 16:55

Tgt Ion: 96 Resp: 2796
Ion Ratio Lower Upper
96 100
61 147.5 111.2 166.8
98 71.9 50.2 75.4





#25

2-Butanone

Concen: 0.280 ug/l

RT: 4.68 min Scan# 590

Delta R.T. 0.05 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

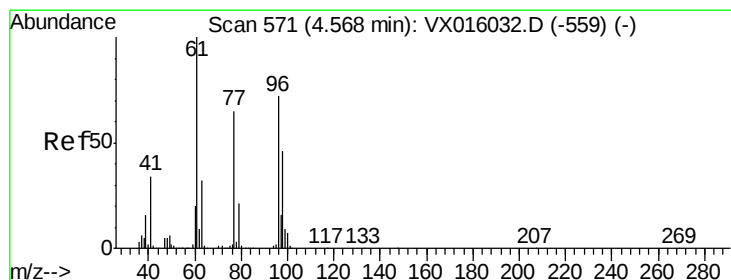
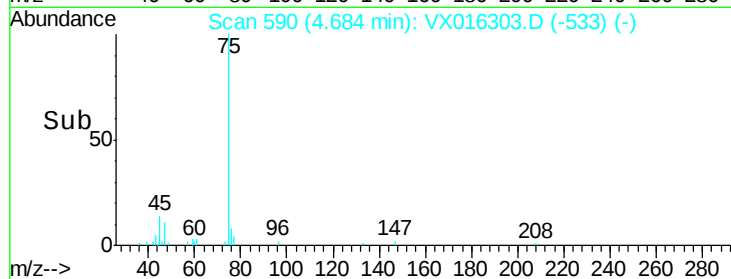
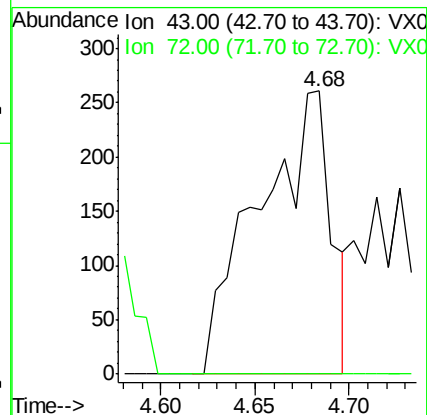
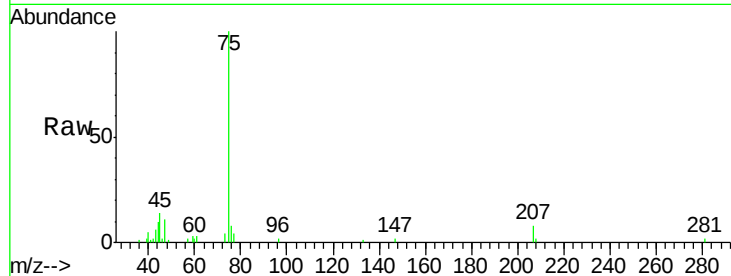
S32-0682DL

Tot Ion: 43 Resp: 693

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.8#



#27

cis-1,2-Dichloroethene

Concen: 16.643 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

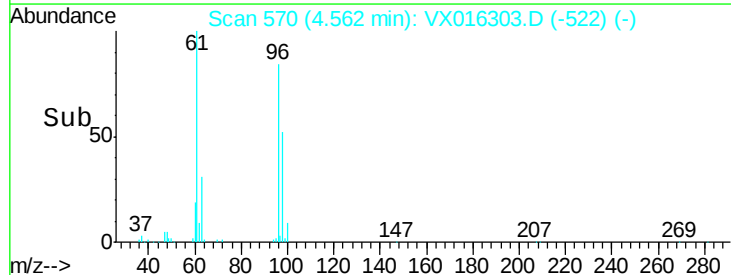
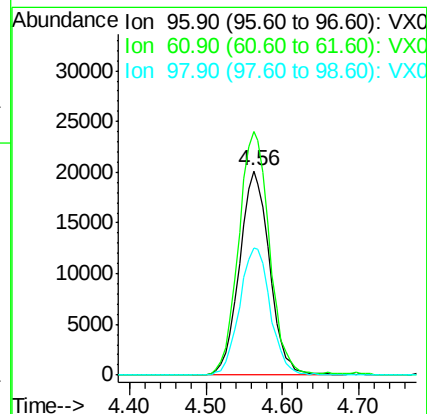
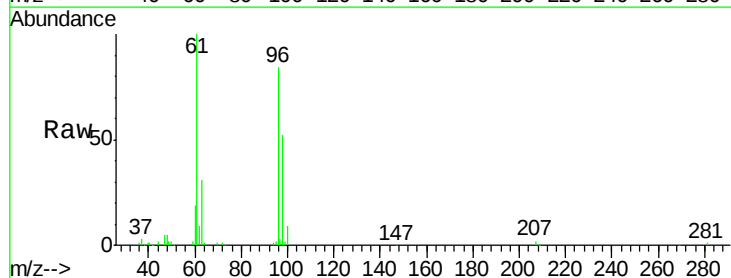
Tgt Ion: 96 Resp: 55046

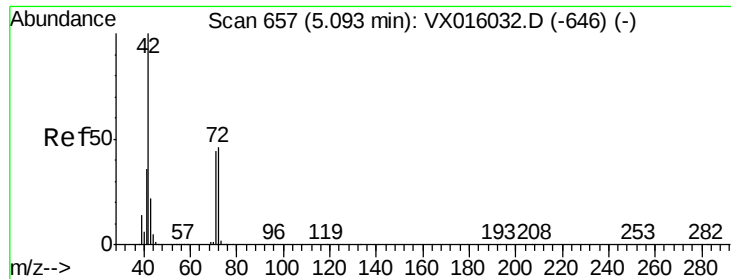
Ion Ratio Lower Upper

96 100

61 121.4 0.0 296.2

98 63.2 0.0 129.4





#29

Tetrahydrofuran

Concen: 0.549 ug/l

RT: 5.12 min Scan# 662

Delta R.T. 0.03 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleID :

S32-0682DL

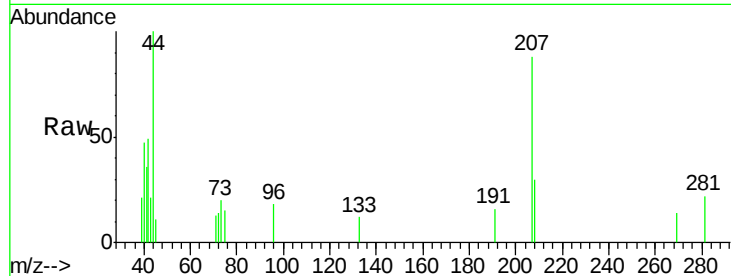
Tot Ion: 42 Resp: 899

Ion Ratio Lower Upper

42 100

72 0.0 37.1 55.7#

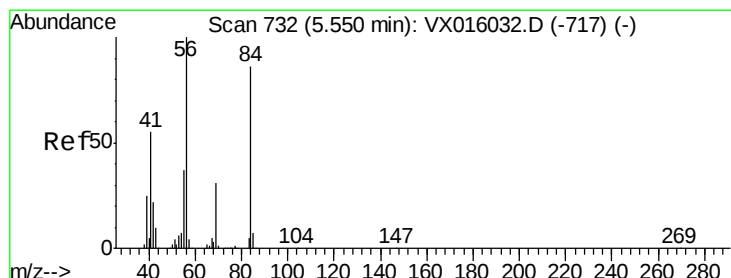
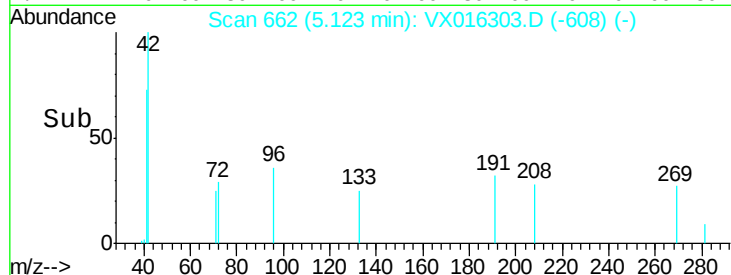
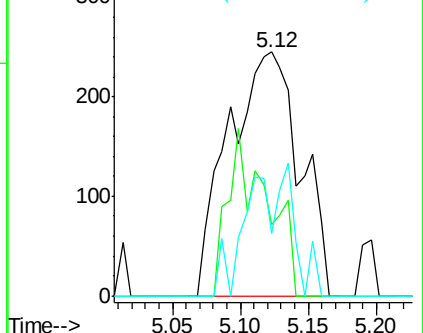
71 0.0 34.5 51.7#



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: 1.012 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

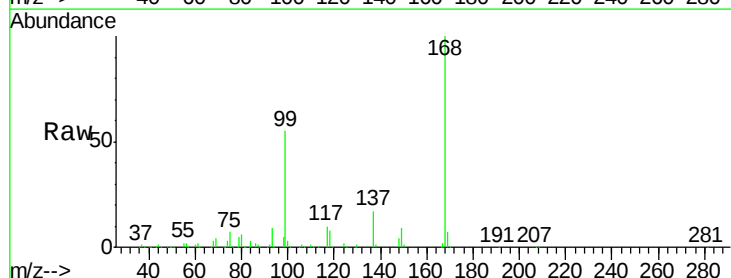
Tgt Ion: 56 Resp: 4831

Ion Ratio Lower Upper

56 100

69 181.2 25.0 37.6#

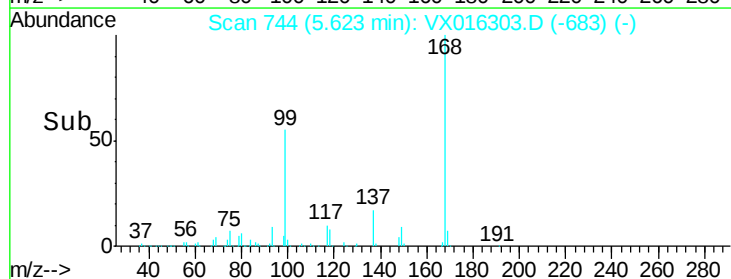
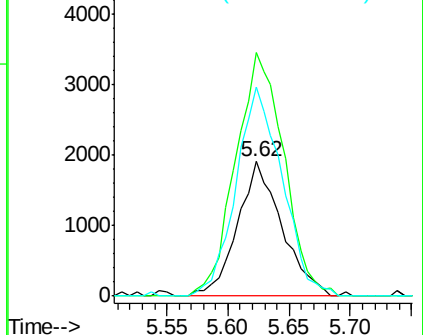
84 156.0 69.0 103.6#

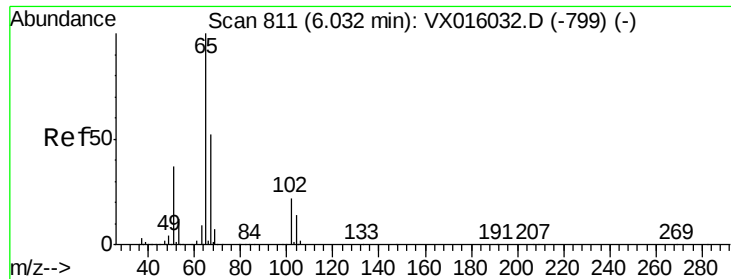


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.200 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

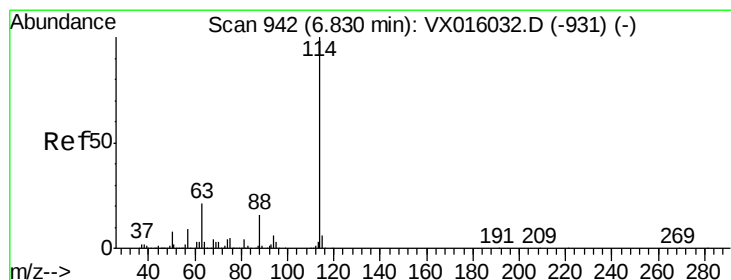
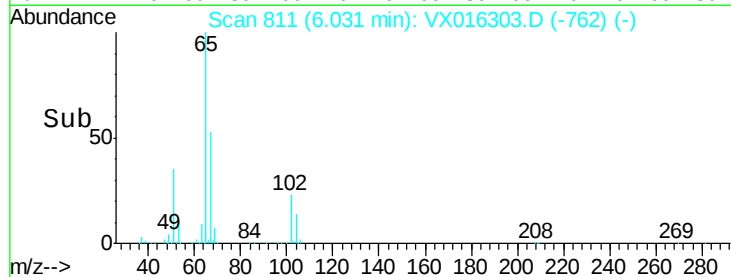
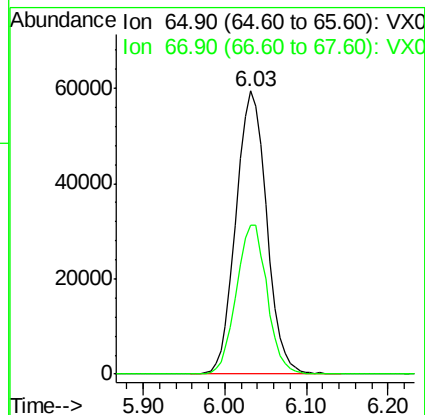
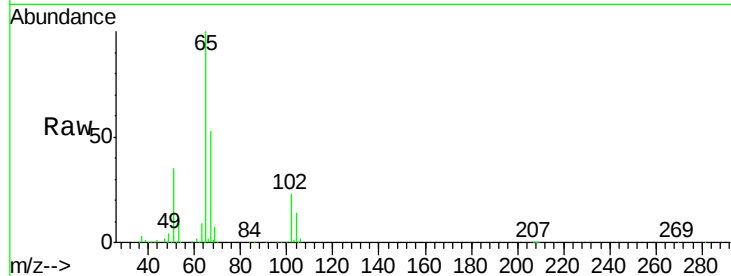
S32-0682DL

Tot Ion: 65 Resp: 155337

Ion Ratio Lower Upper

65 100

67 52.7 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: VX016303.D

Acq: 18 May 2020 16:55

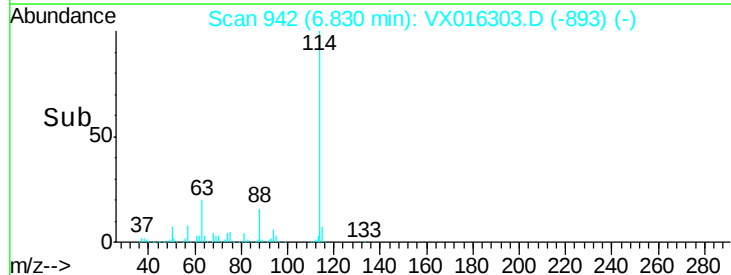
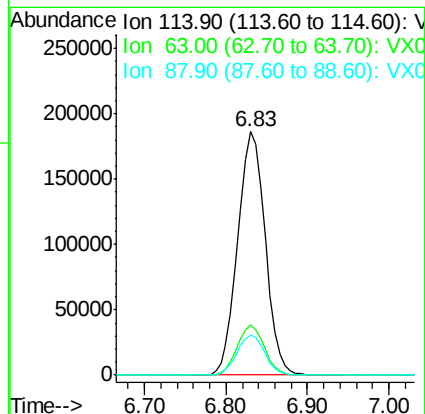
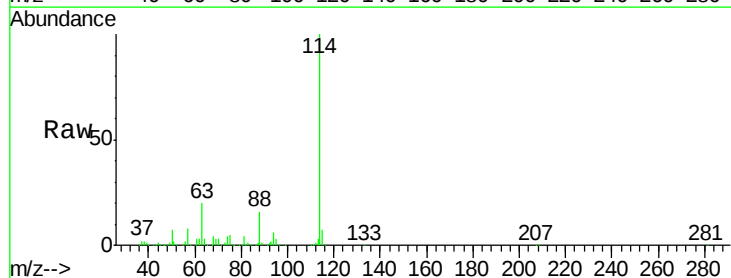
Tgt Ion: 114 Resp: 434657

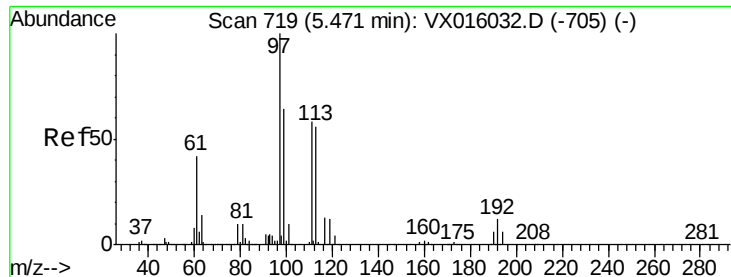
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.8

88 16.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.126 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

S32-0682DL

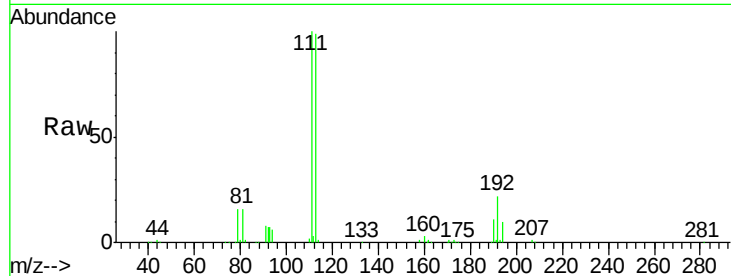
Tot Ion:113 Resp: 129772

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

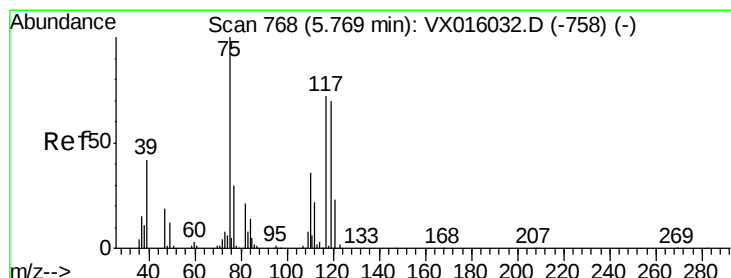
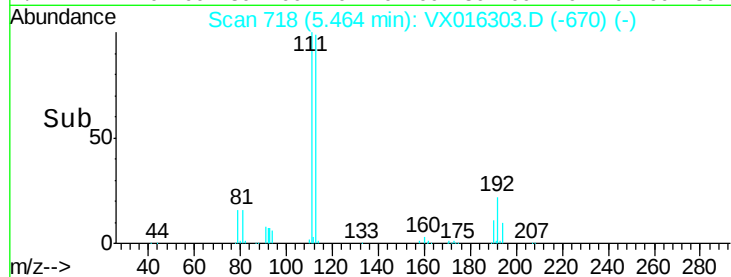
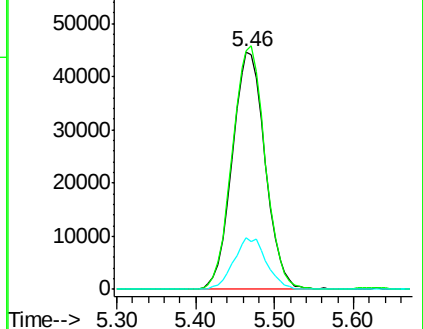
192 21.6 17.0 25.4



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: 4.519 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

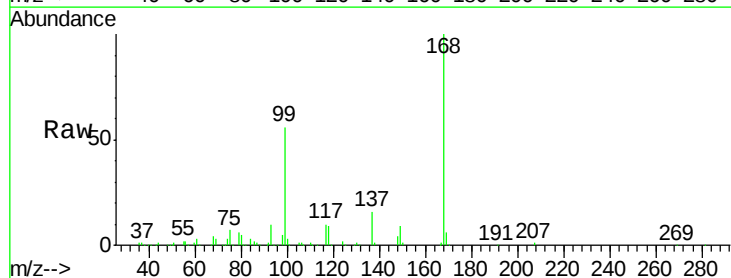
Tgt Ion: 75 Resp: 19333

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.1#

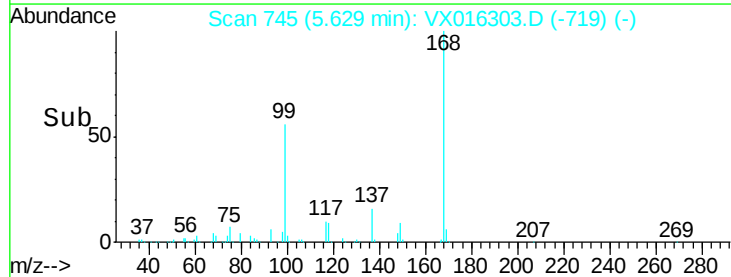
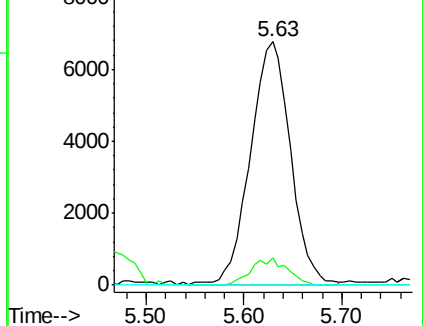
77 0.0 25.0 37.6#

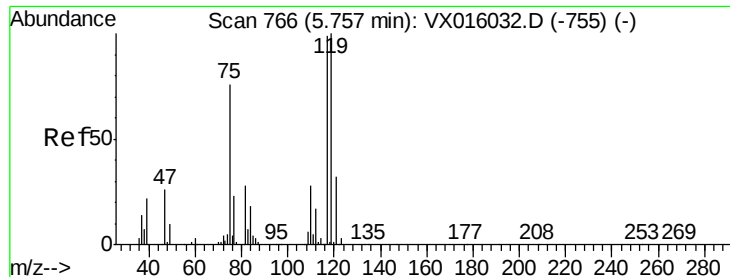


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.727 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampled :

S32-0682DL

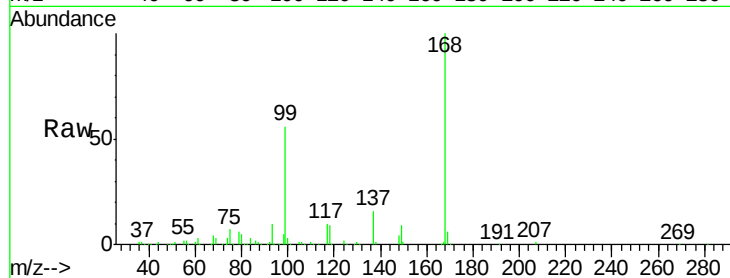
Tot Ion:117 Resp: 24908

Ion Ratio Lower Upper

117 100

119 3.9 80.3 120.5#

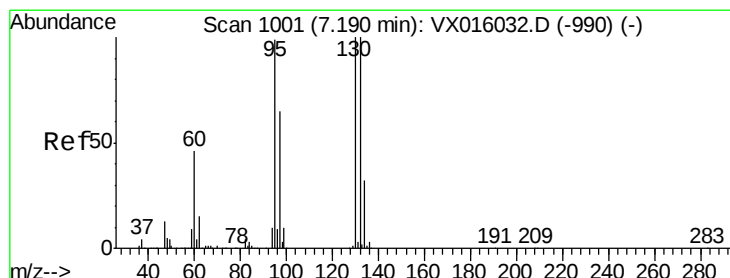
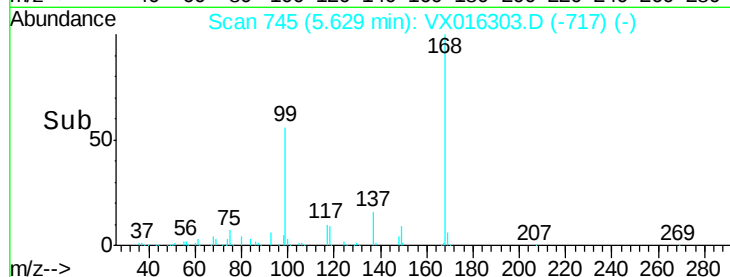
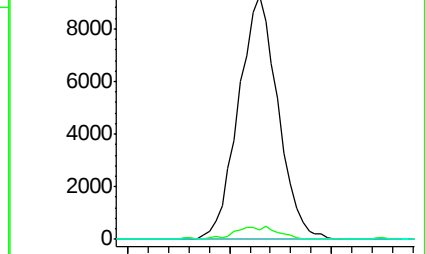
121 0.0 25.7 38.5#



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



#44

Trichloroethene

Concen: 0.329 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016303.D

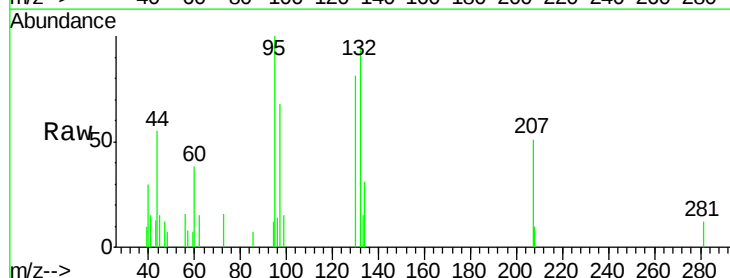
Acq: 18 May 2020 16:55

Tgt Ion:130 Resp: 1464

Ion Ratio Lower Upper

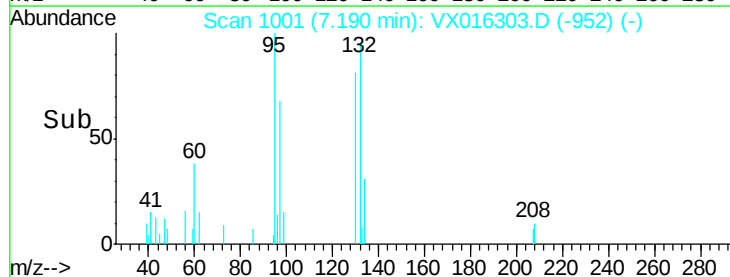
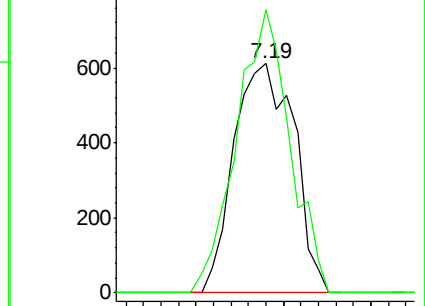
130 100

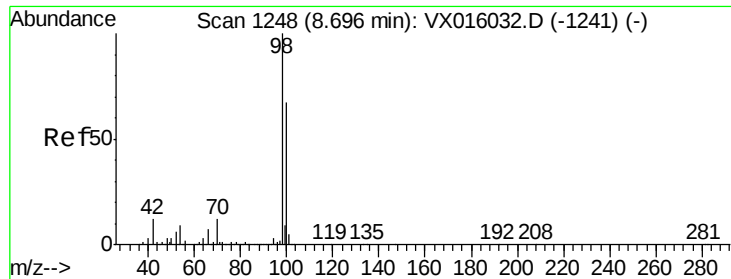
95 123.6 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.850 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

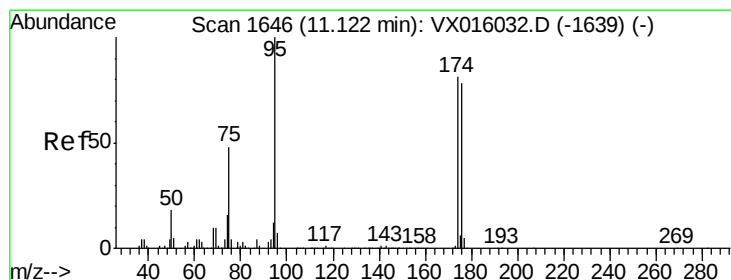
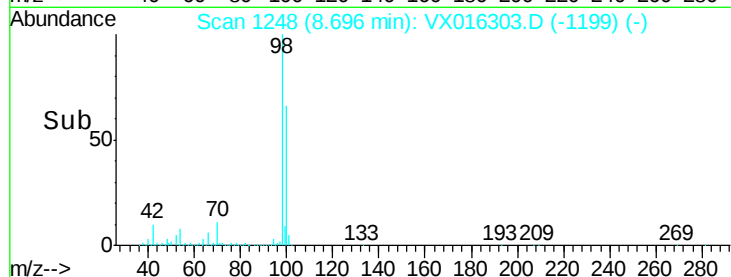
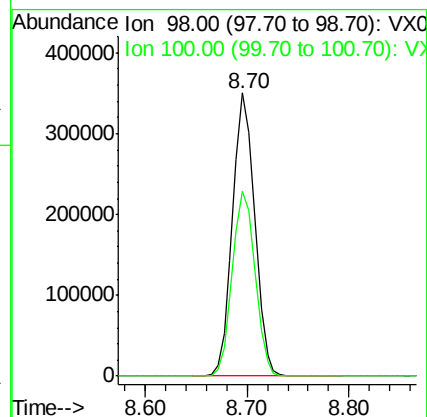
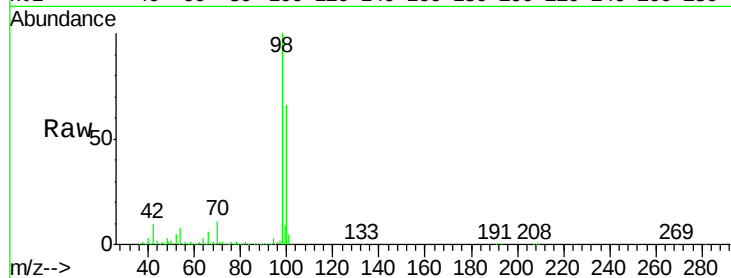
S32-0682DL

Tot Ion: 98 Resp: 528924

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 55.910 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

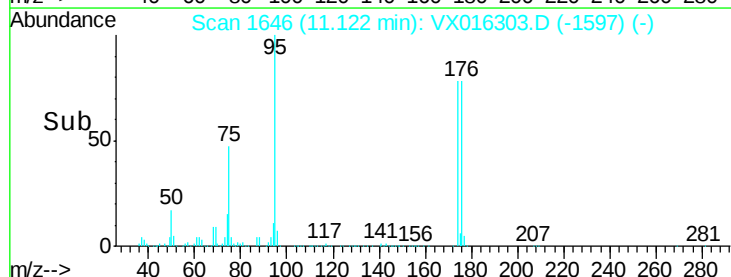
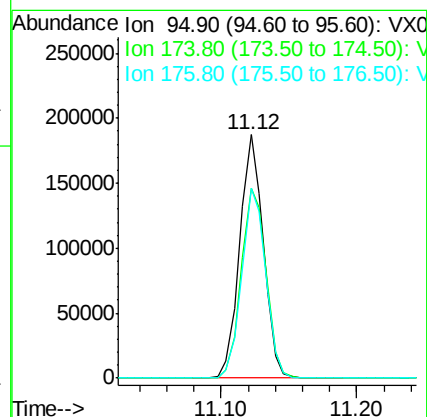
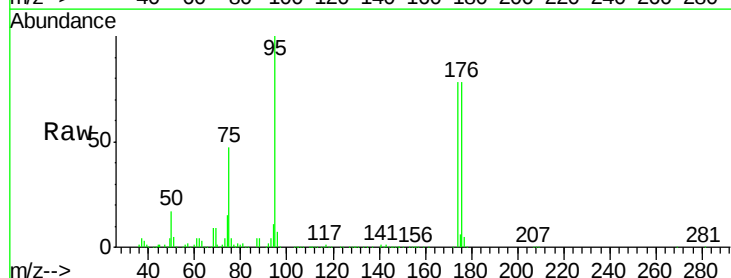
Tgt Ion: 95 Resp: 225636

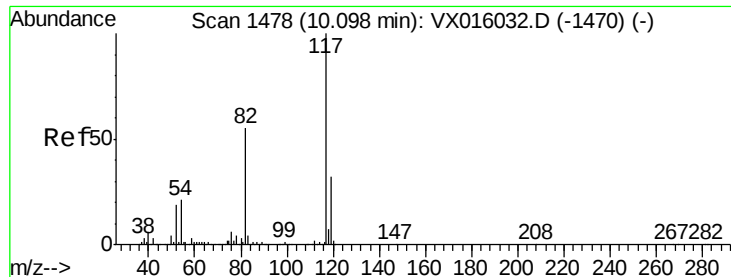
Ion Ratio Lower Upper

95 100

174 81.8 0.0 159.4

176 79.0 0.0 157.6

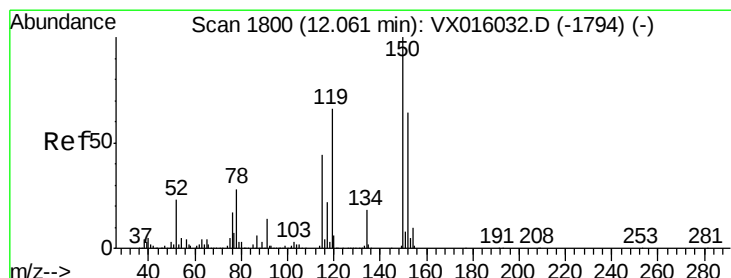
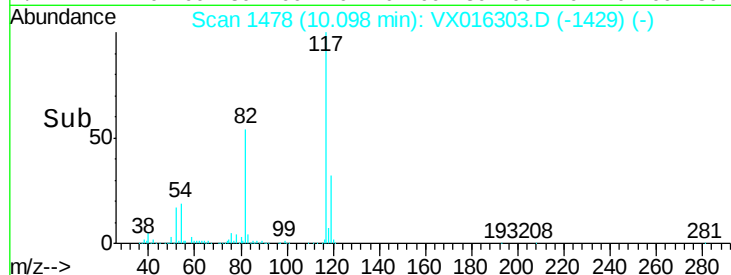
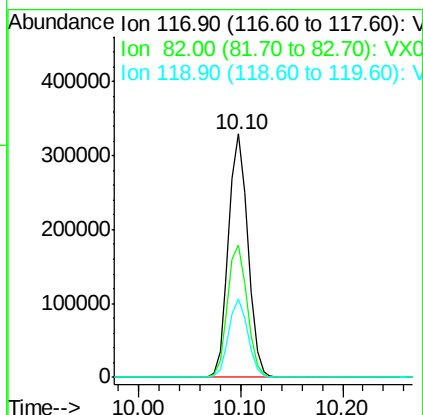
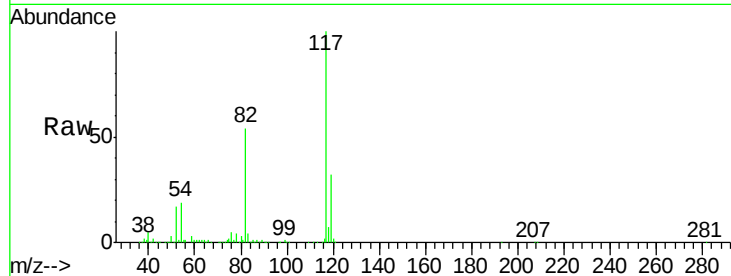




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016303.D
Acq: 18 May 2020 16:55

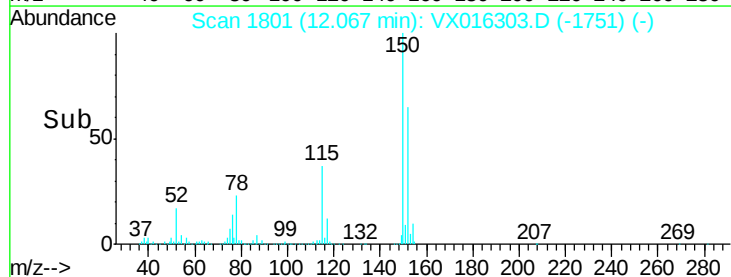
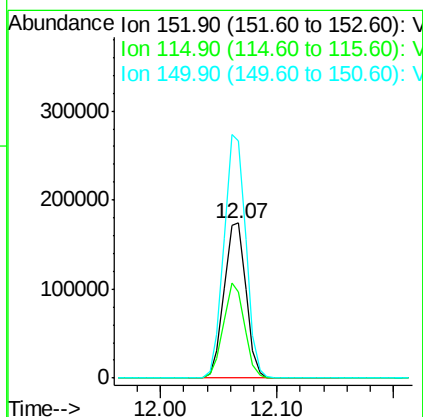
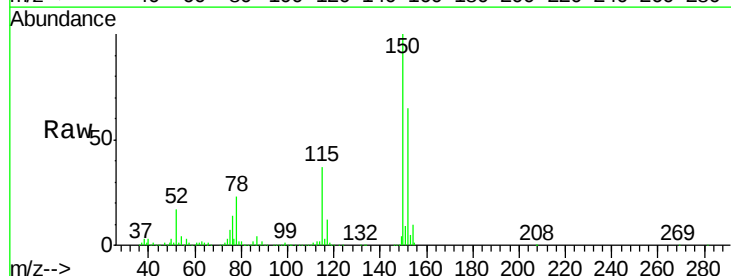
Instrument :
MSVOA_X
ClientSampleId :
S32-0682DL

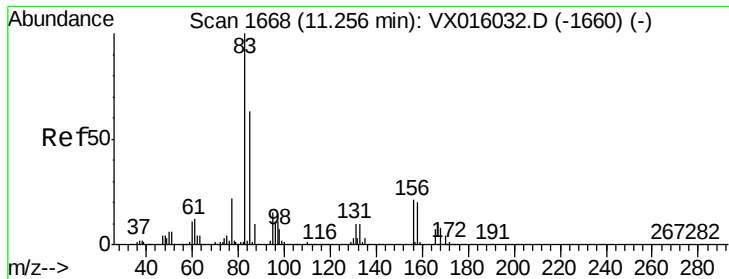
Tot Ion:117 Resp: 433260
Ion Ratio Lower Upper
117 100
82 54.2 44.4 66.6
119 32.3 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016303.D
Acq: 18 May 2020 16:55

Tgt Ion:152 Resp: 227363
Ion Ratio Lower Upper
152 100
115 58.8 41.3 124.1
150 156.3 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.056 ug/l

RT: 11.26 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

S32-0682DL

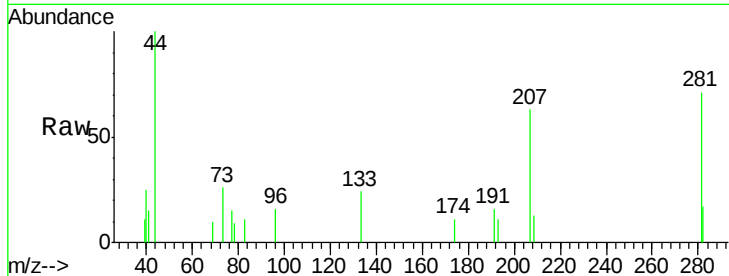
Tot Ion: 83 Resp: 23

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

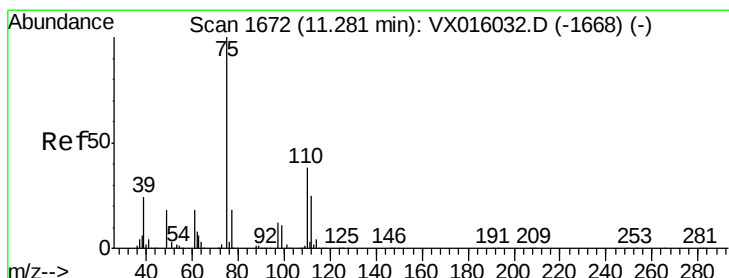
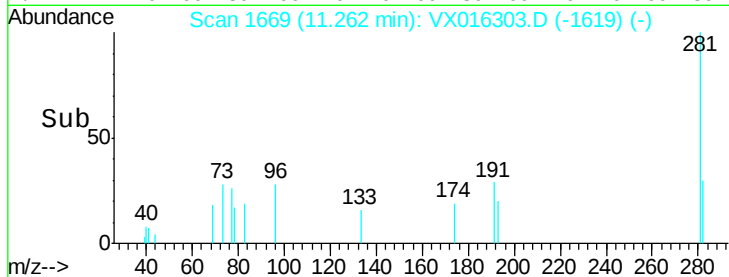
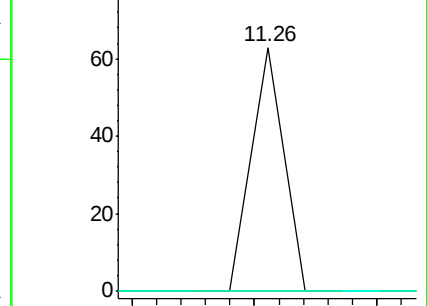
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.140 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016303.D

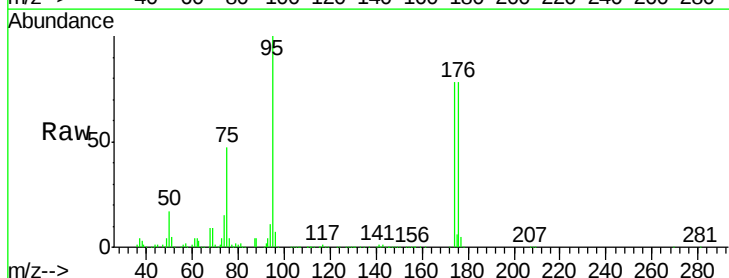
Acq: 18 May 2020 16:55

Tgt Ion: 75 Resp: 109072

Ion Ratio Lower Upper

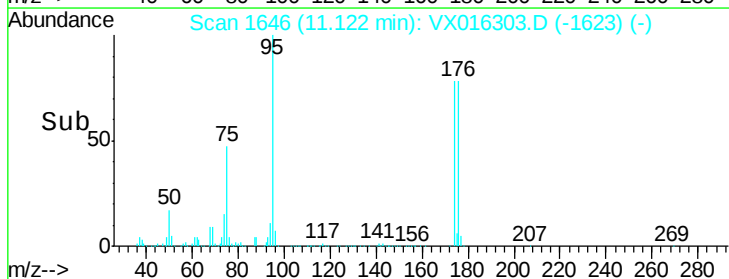
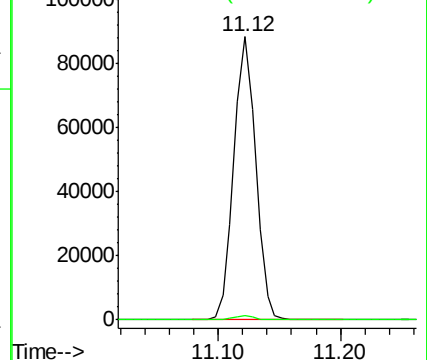
75 100

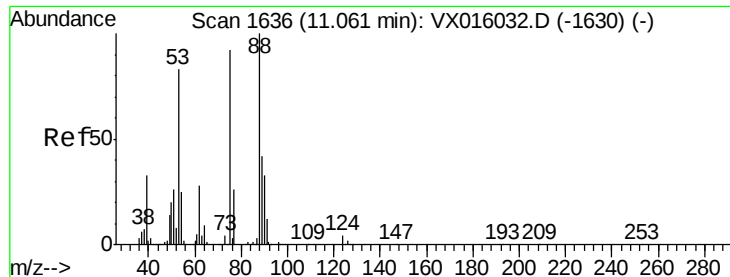
77 1.5 21.2 63.6#



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: 50.379 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

Instrument :

MSVOA_X

ClientSampleId :

S32-0682DL

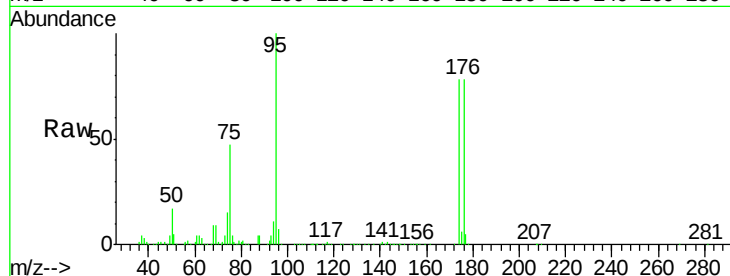
Tot Ion: 75 Resp: 109072

Ion Ratio Lower Upper

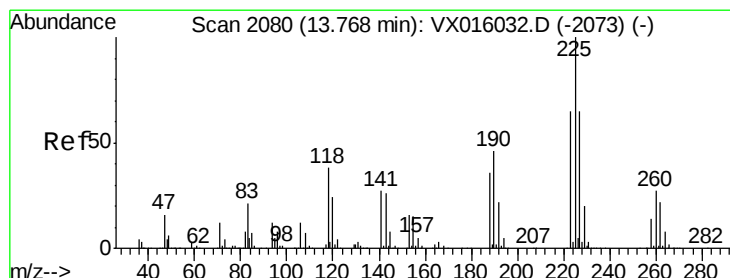
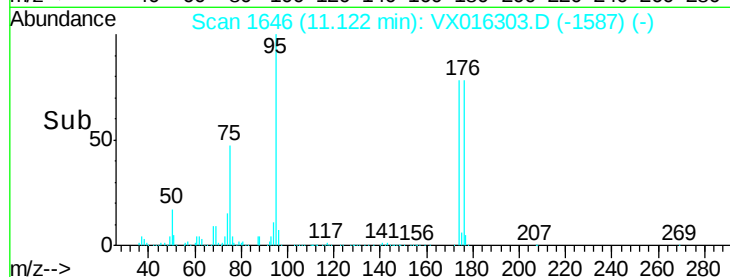
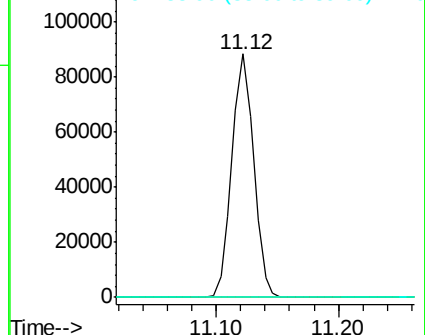
75 100

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: 0.649 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016303.D

Acq: 18 May 2020 16:55

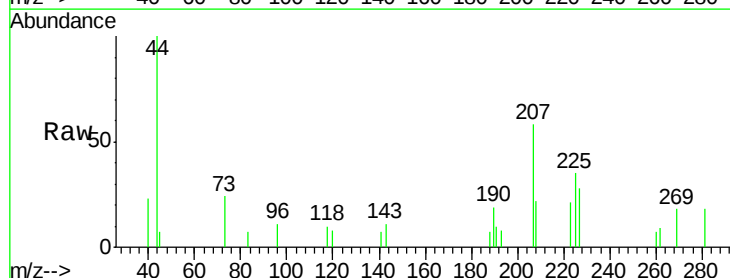
Tgt Ion: 225 Resp: 299

Ion Ratio Lower Upper

225 100

223 76.3 32.3 96.9

227 60.5 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

