

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051320\
 Data File : VX016211.D
 Acq On : 14 May 2020 04:17
 Operator : JC/SP
 Sample : L2605-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 239996

Quant Time: May 14 06:39:39 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	259516	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	434563	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	430108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214999	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	161760	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
35) Dibromofluoromethane	5.47	113	130528	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	8.70	98	538346	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	11.12	95	213888	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	

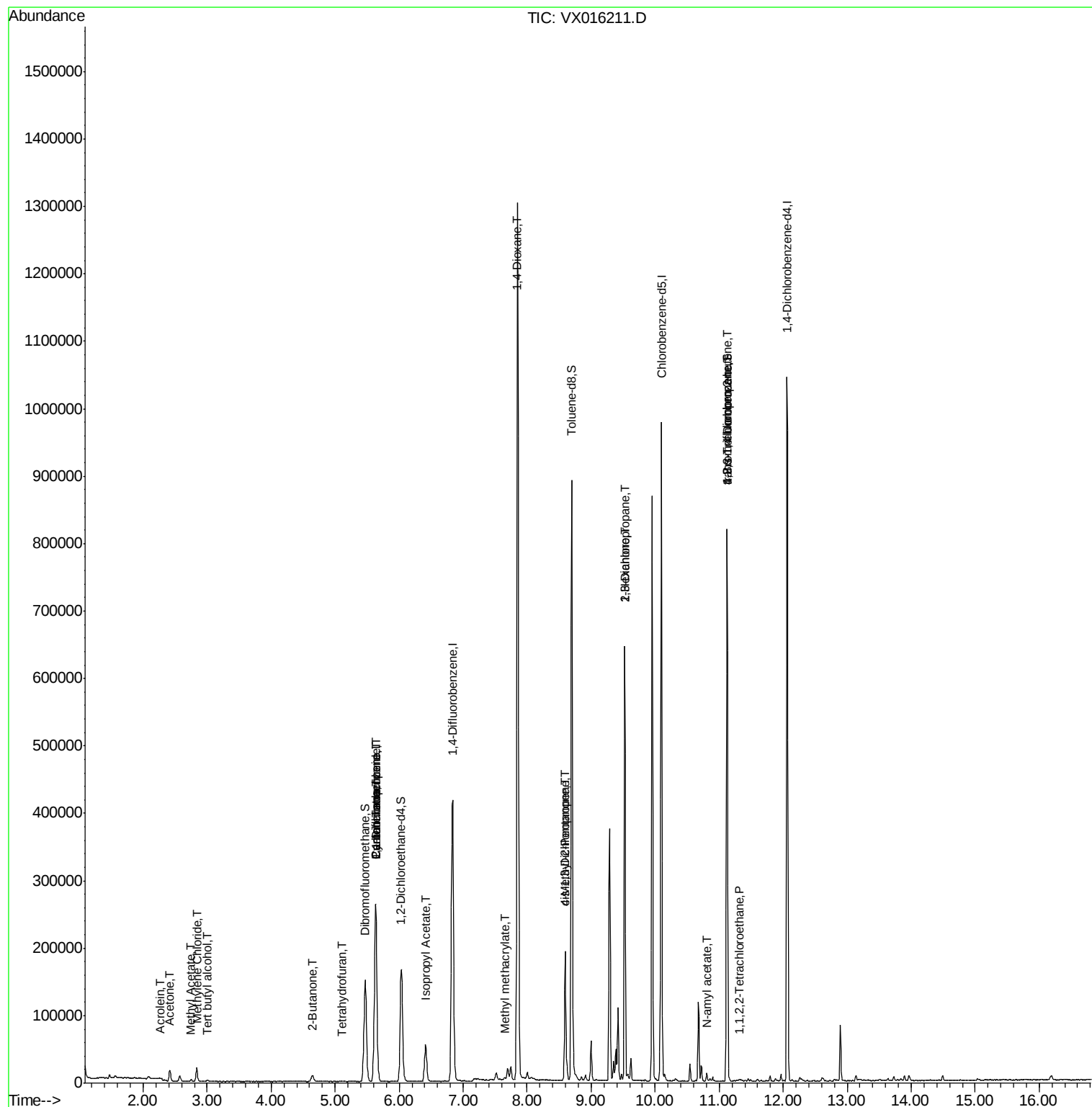
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	2616	3.029	ug/l	100
13) Acrolein	2.28	56	366	0.677	ug/l #	49
16) Acetone	2.42	43	16720	10.973	ug/l	92
17) Carbon Disulfide	2.55	76	902	Below Cal	#	38
18) Methyl Acetate	2.75	43	3012	0.804	ug/l	96
20) Methylene Chloride	2.84	84	9254	2.946	ug/l	93
25) 2-Butanone	4.64	43	12341	5.026	ug/l	99
29) Tetrahydrofuran	5.10	42	1248	0.767	ug/l #	70
31) Cyclohexane	5.63	56	5252	1.107	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	19553	4.571	ug/l #	50
38) Carbon Tetrachloride	5.63	117	24943	5.737	ug/l #	14
43) Isopropyl Acetate	6.42	43	73634	9.308	ug/l	100
48) Methyl methacrylate	7.65	41	4614	1.231	ug/l #	14
49) 1,4-Dioxane	7.84	88	193	2.147	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	70392	14.541	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	33678	6.169	ug/l #	57
57) 1,3-Dichloropropane	9.52	76	5445	1.017	ug/l #	45
59) 2-Hexanone	9.52	43	68716	18.076	ug/l #	50
74) N-amyl acetate	10.80	43	5991	0.821	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.31	83	64	2.071	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	106438	21.816	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	106438	51.990	ug/l #	13

(#) = 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: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

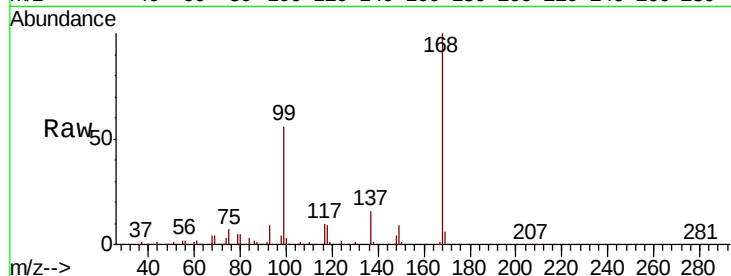
239996

Tot Ion:168 Resp: 259516

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

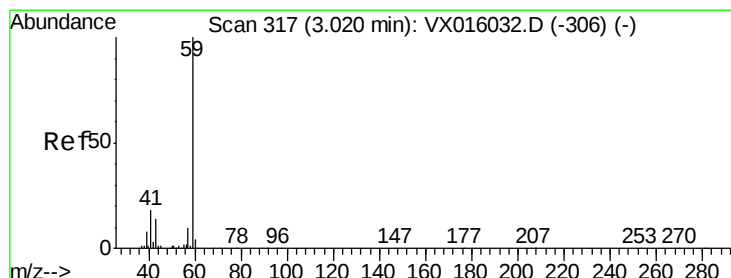
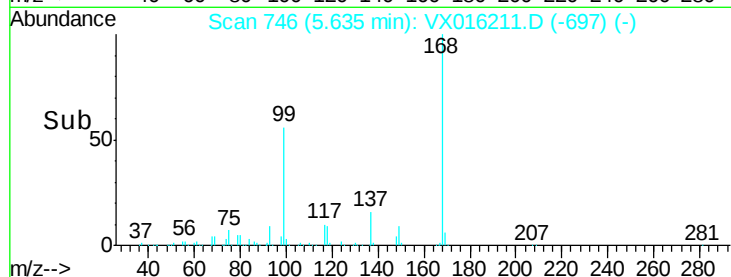
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.029 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016211.D

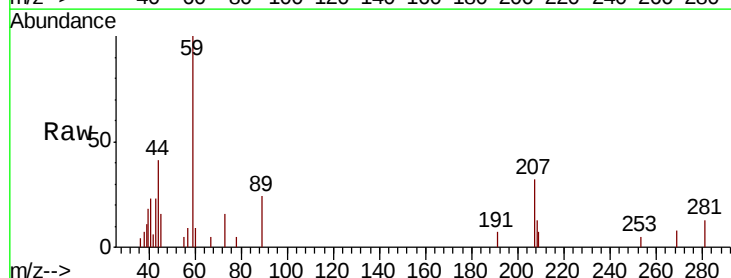
Acq: 14 May 2020 04:17

Tgt Ion: 59 Resp: 2616

Ion Ratio Lower Upper

59 100

57 10.5 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

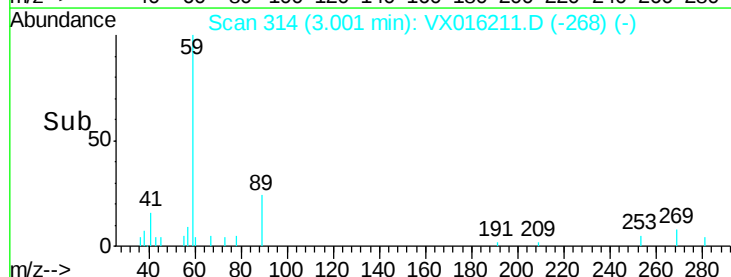
3.00

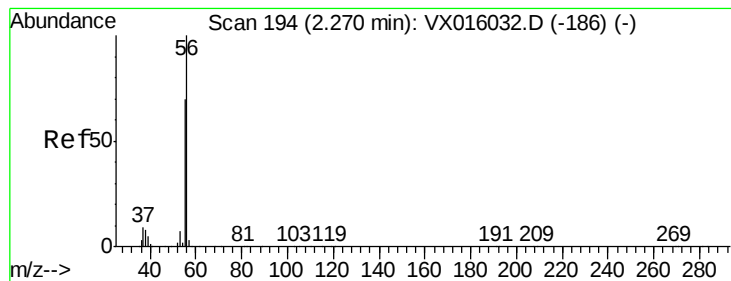
1000

500

0

Time-->





#13

Acrolein

Concen: 0.677 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

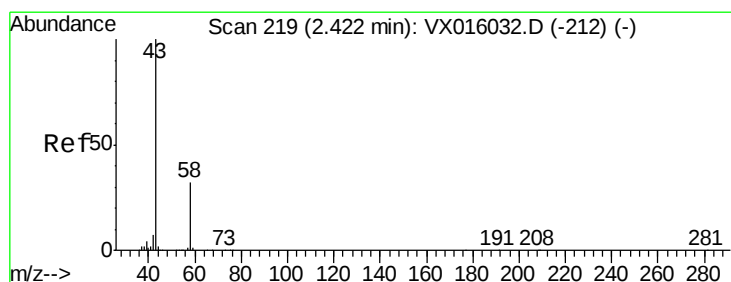
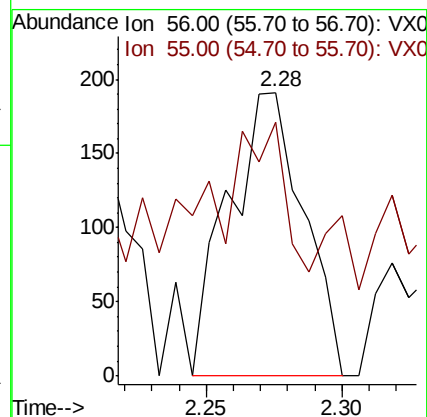
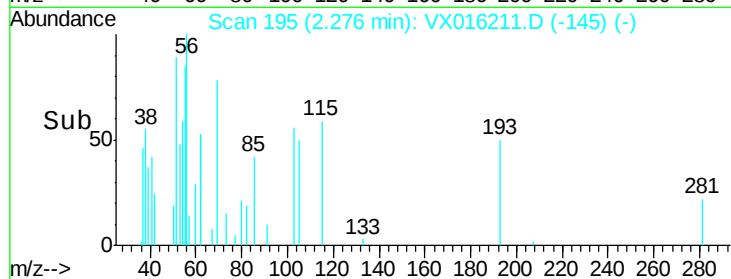
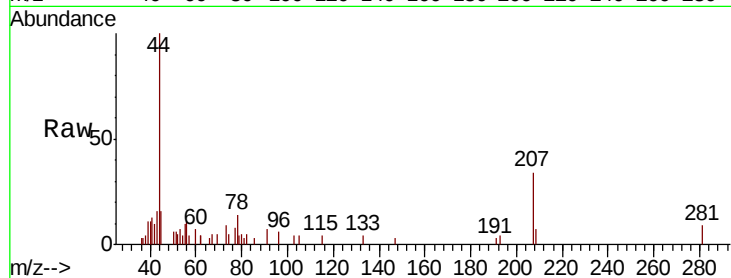
239996

Tot Ion: 56 Resp: 366

Ion Ratio Lower Upper

56 100

55 29.0 56.5 84.7#



#16

Acetone

Concen: 10.973 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016211.D

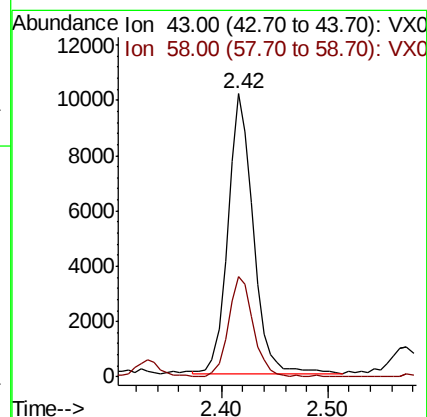
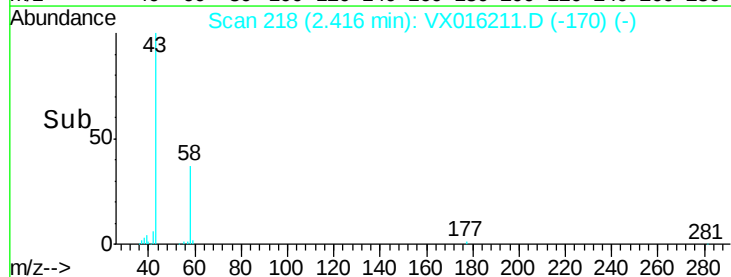
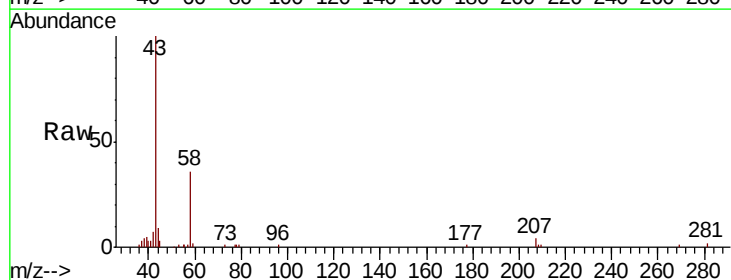
Acq: 14 May 2020 04:17

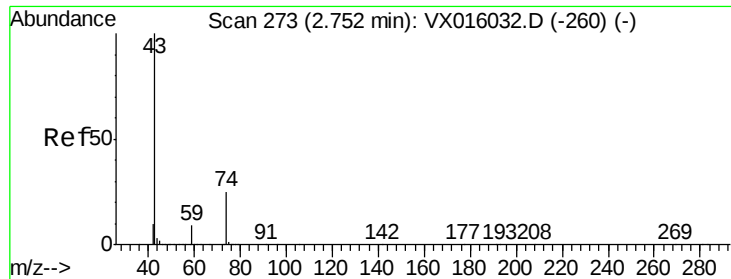
Tgt Ion: 43 Resp: 16720

Ion Ratio Lower Upper

43 100

58 36.0 25.4 38.0

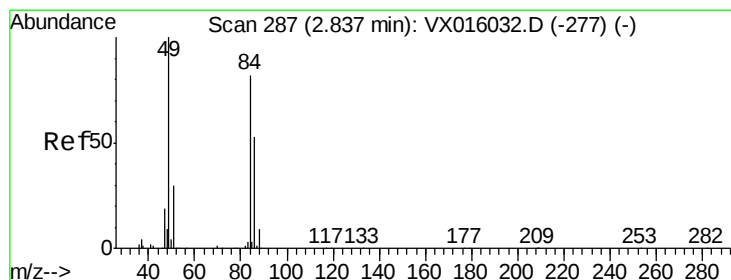
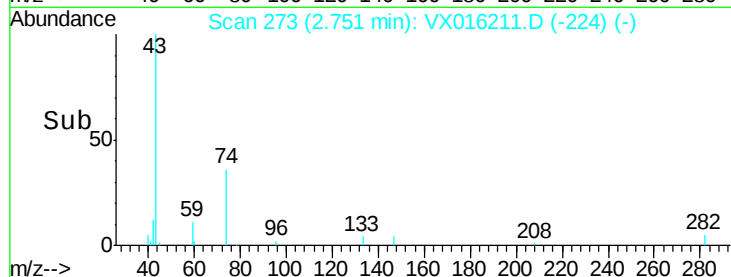
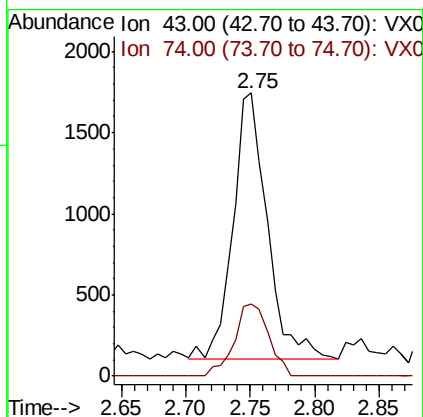
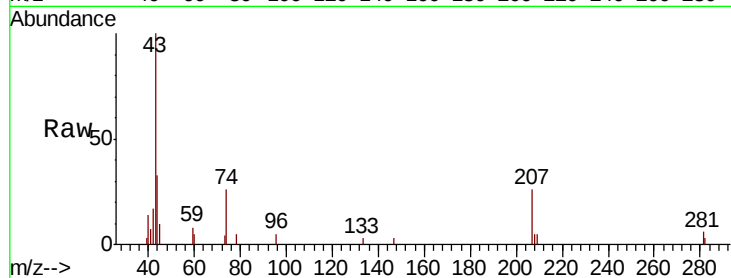




#18
Methvl Acetate
Concen: 0.804 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016211.D
Acq: 14 May 2020 04:17

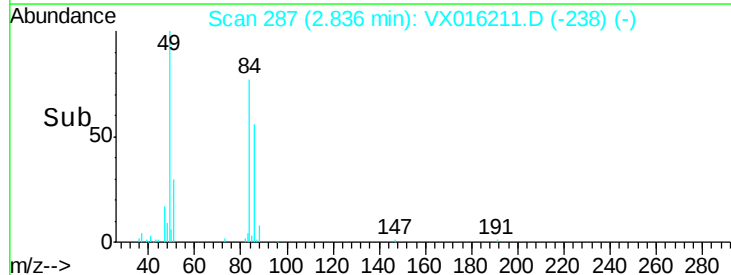
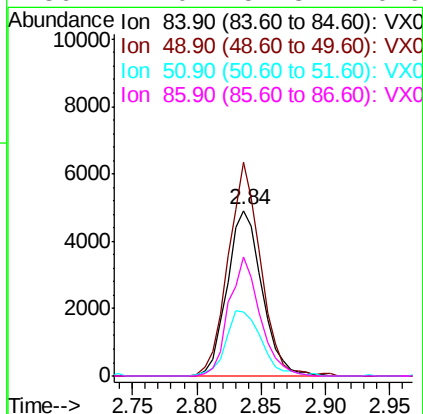
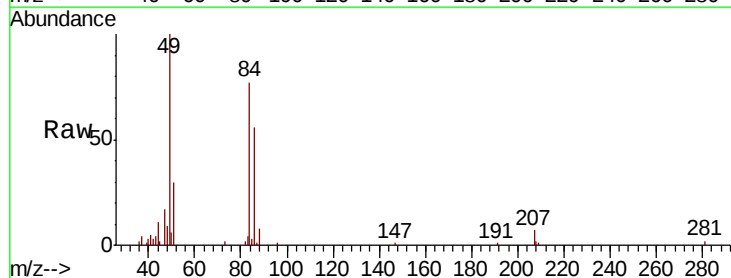
Instrument :
MSVOA_X
ClientSampleId :
239996

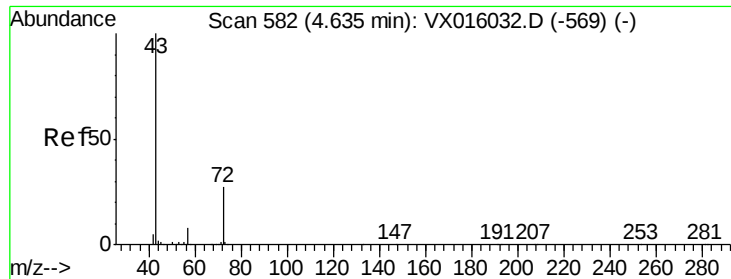
Tot Ion: 43 Resp: 3012
Ion Ratio Lower Upper
43 100
74 27.4 20.2 30.2



#20
Methylene Chloride
Concen: 2.946 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016211.D
Acq: 14 May 2020 04:17

Tgt Ion: 84 Resp: 9254
Ion Ratio Lower Upper
84 100
49 129.3 97.3 145.9
51 38.4 29.3 43.9
86 72.0 51.3 76.9





#25

2-Butanone

Concen: 5.026 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

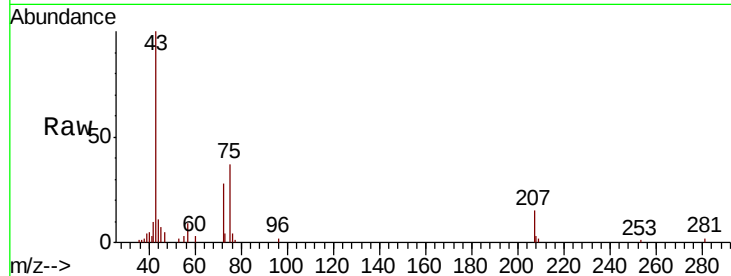
239996

Tot Ion: 43 Resp: 12341

Ion Ratio Lower Upper

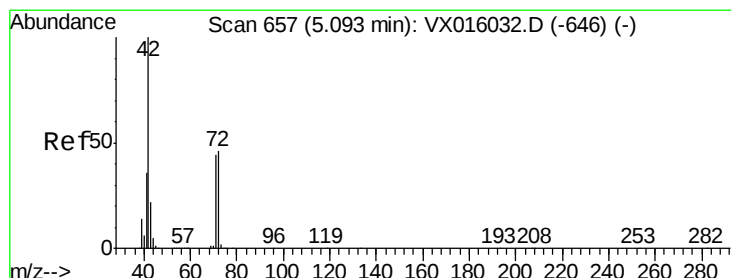
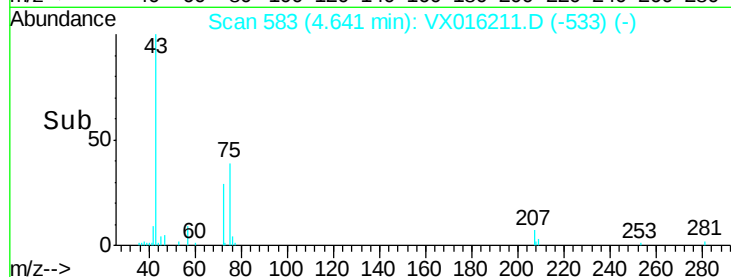
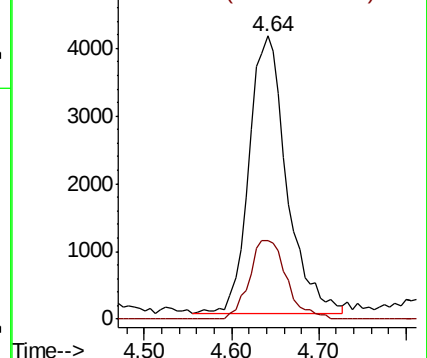
43 100

72 28.0 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.767 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

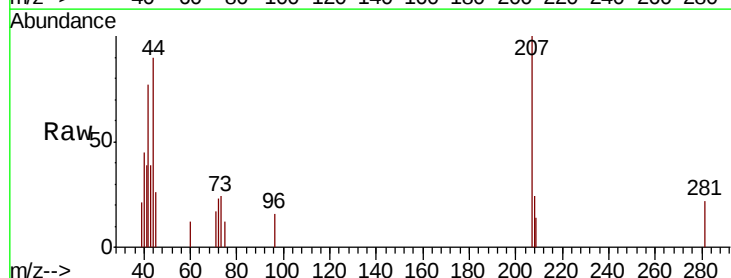
Tgt Ion: 42 Resp: 1248

Ion Ratio Lower Upper

42 100

72 26.6 37.1 55.7#

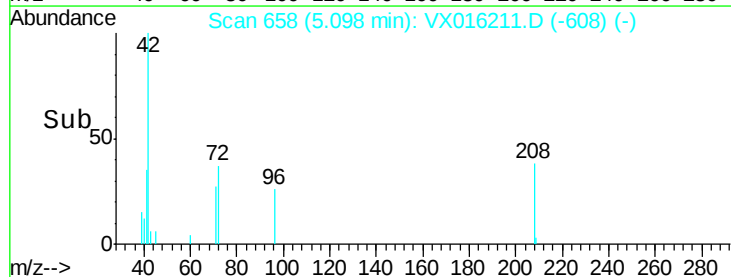
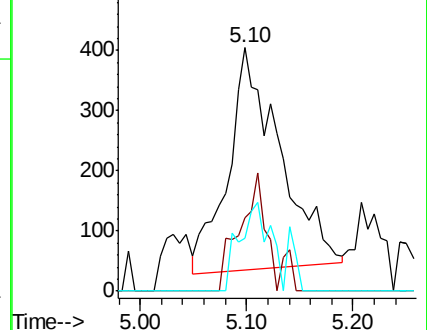
71 23.9 34.5 51.7#

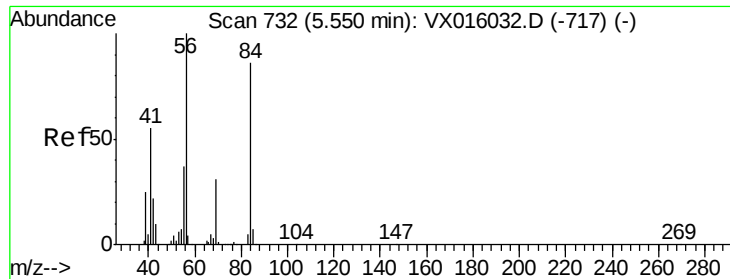


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

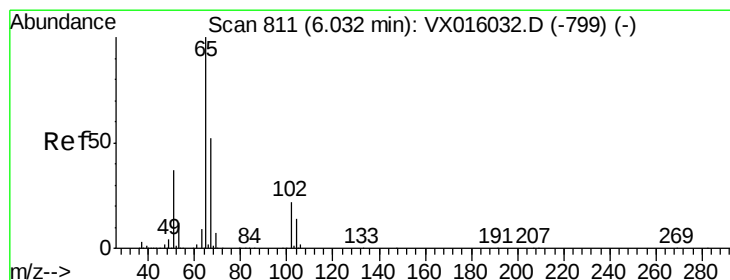
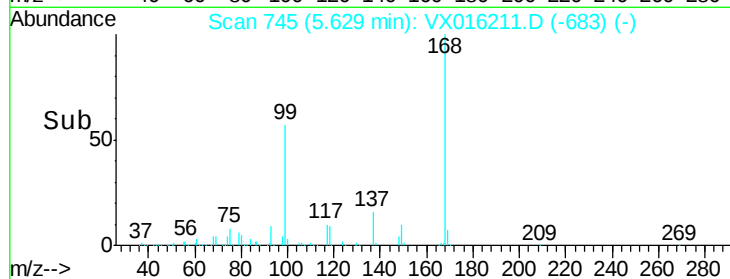
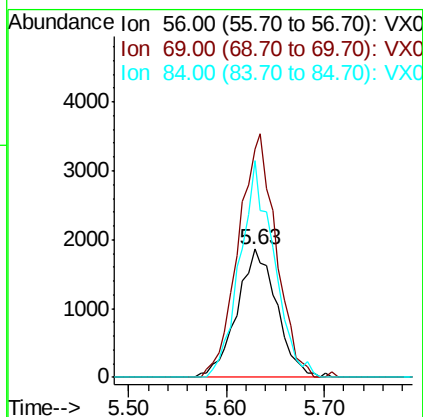
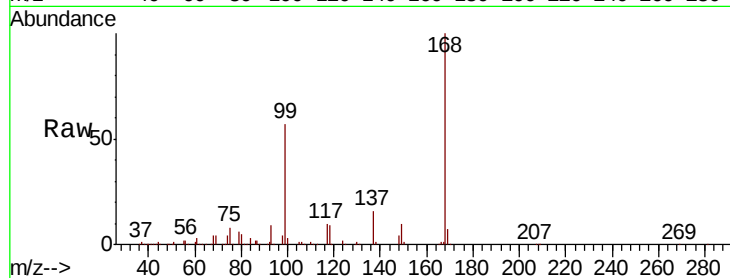




#31
Cyclohexane
Concen: 1.107 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016211.D
Acq: 14 May 2020 04:17

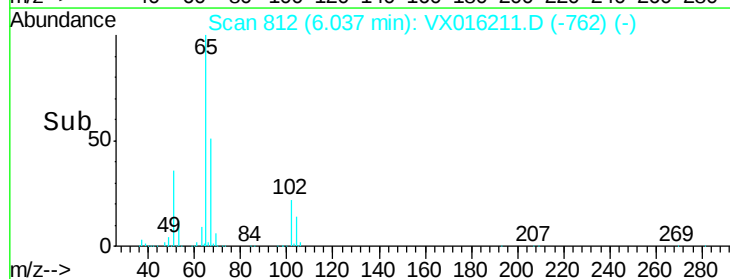
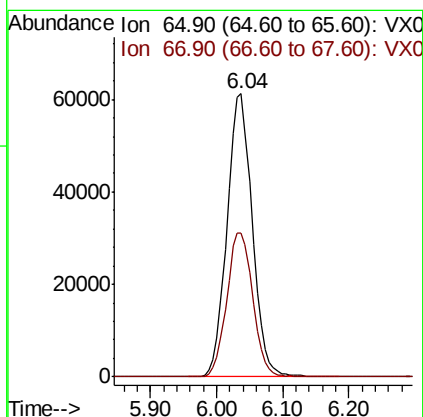
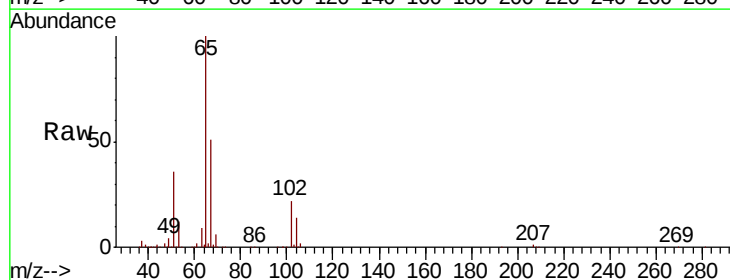
Instrument :
MSVOA_X
ClientSampled :
239996

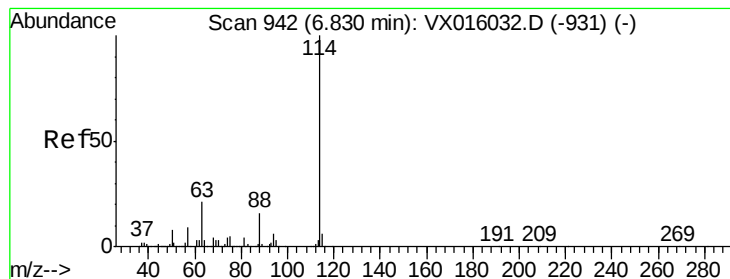
Tot Ion: 56 Resp: 5252
Ion Ratio Lower Upper
56 100
69 178.1 25.0 37.6#
84 168.5 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 47.368 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016211.D
Acq: 14 May 2020 04:17

Tgt Ion: 65 Resp: 161760
Ion Ratio Lower Upper
65 100
67 52.7 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: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

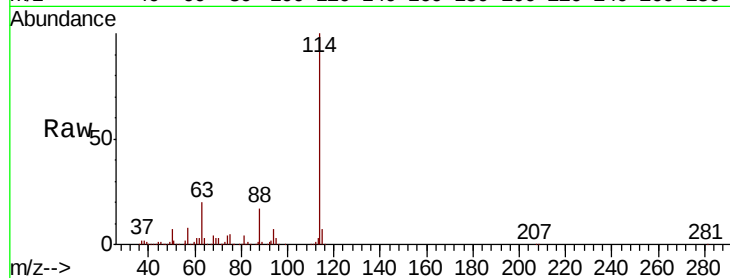
Tot Ion:114 Resp: 434563

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.8

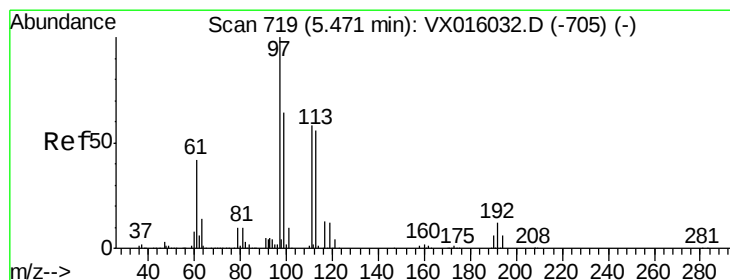
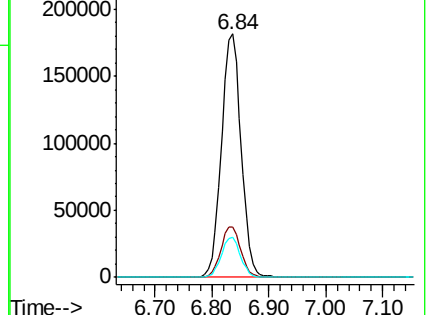
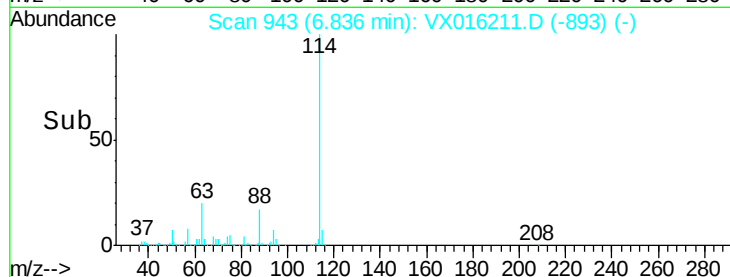
88 16.5 0.0 31.4



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: 47.411 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

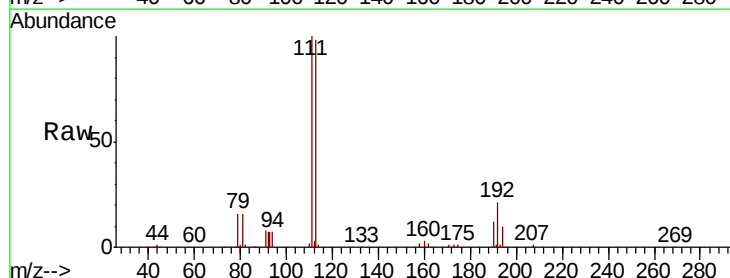
Tgt Ion:113 Resp: 130528

Ion Ratio Lower Upper

113 100

111 103.2 81.6 122.4

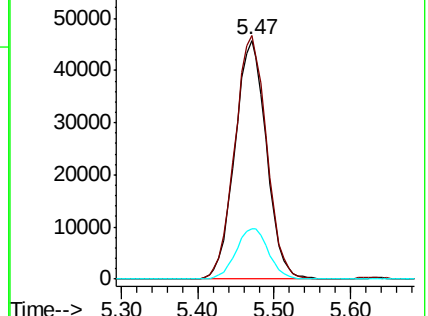
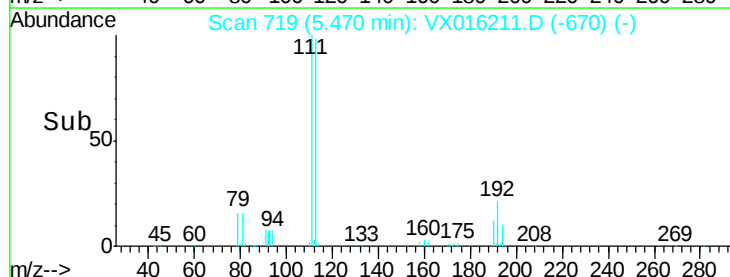
192 21.9 17.0 25.4

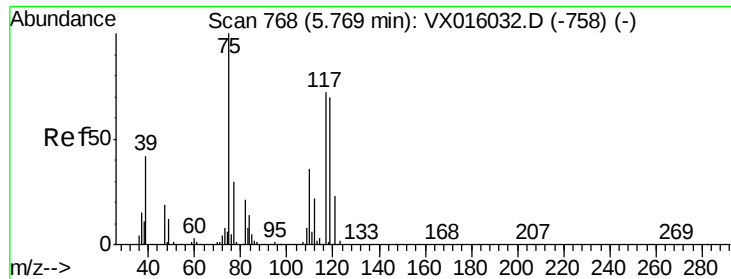


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.571 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

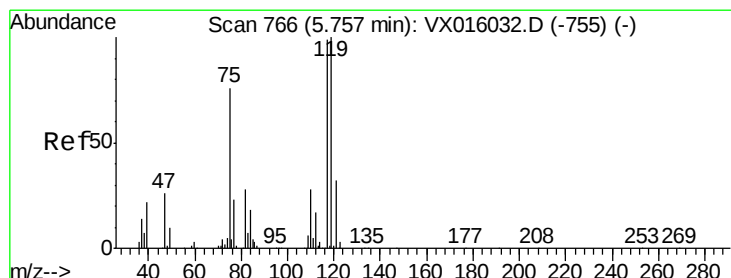
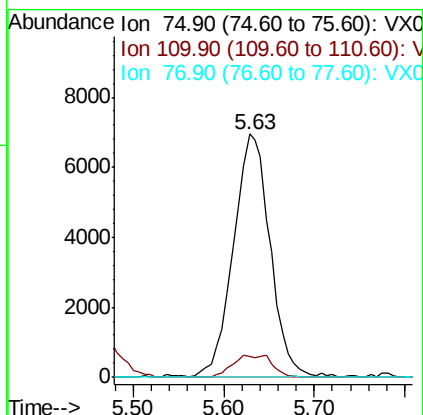
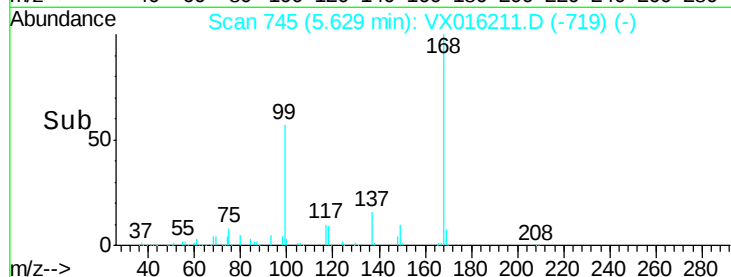
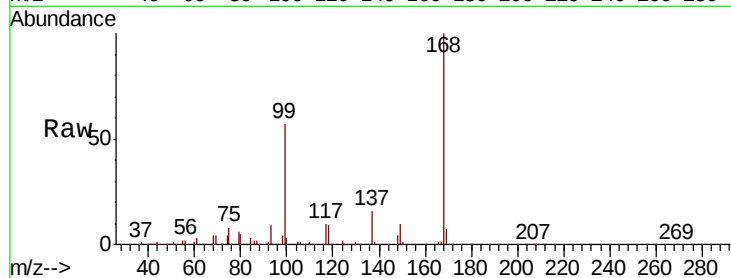
Tot Ion: 75 Resp: 19553

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.737 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

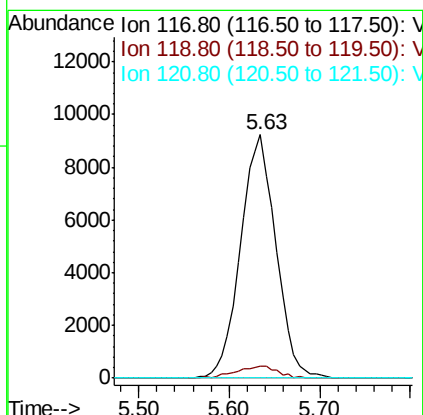
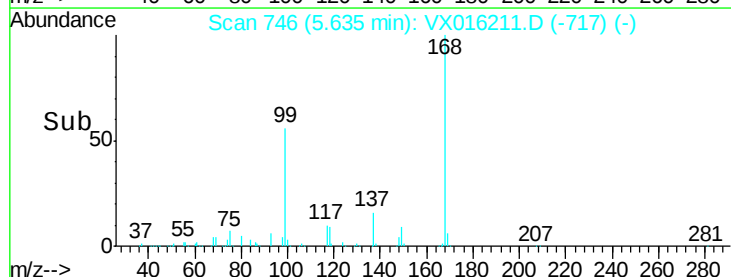
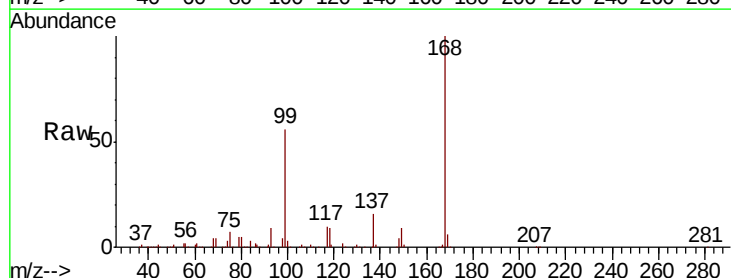
Tgt Ion: 117 Resp: 24943

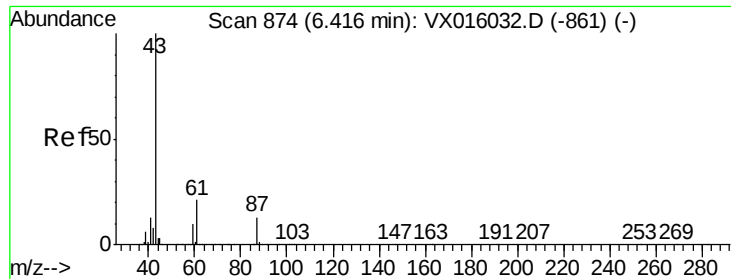
Ion Ratio Lower Upper

117 100

119 5.1 80.3 120.5#

121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 9.308 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

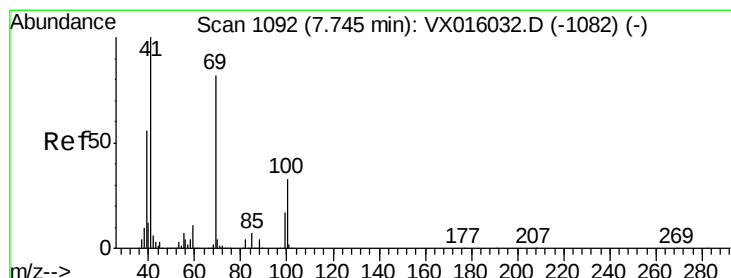
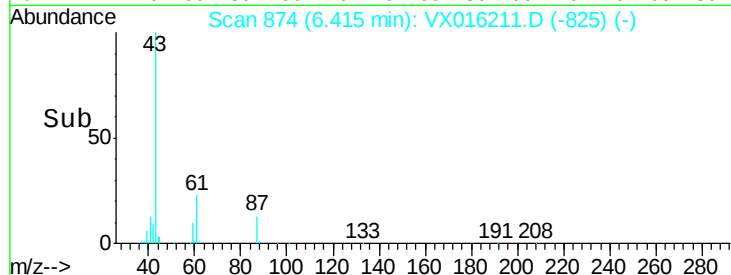
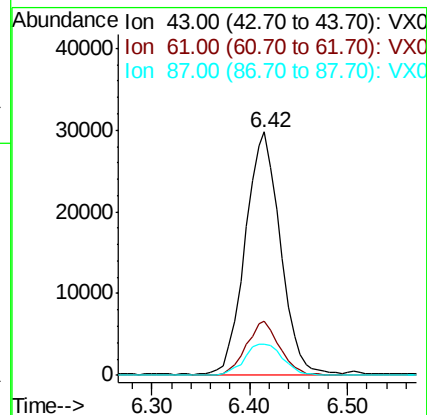
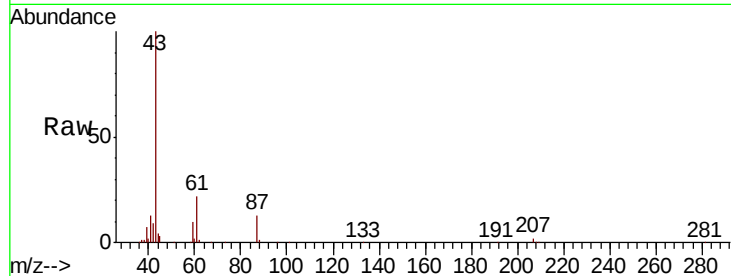
Tot Ion: 43 Resp: 73634

Ion Ratio Lower Upper

43 100

61 21.3 17.0 25.4

87 14.1 11.0 16.6



#48

Methyl methacrylate

Concen: 1.231 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

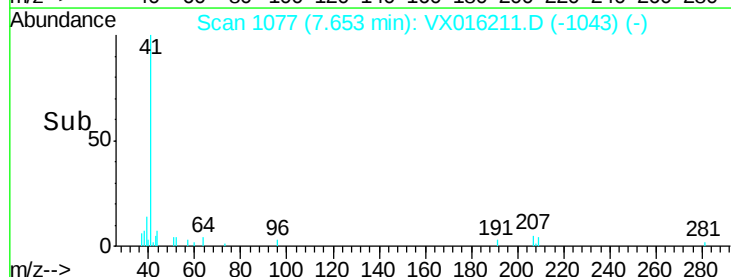
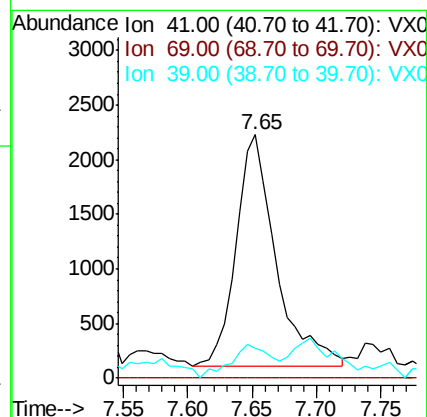
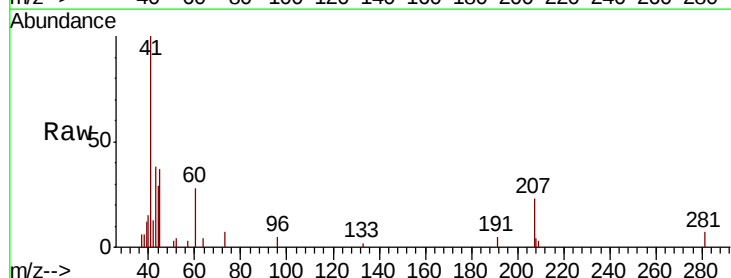
Tgt Ion: 41 Resp: 4614

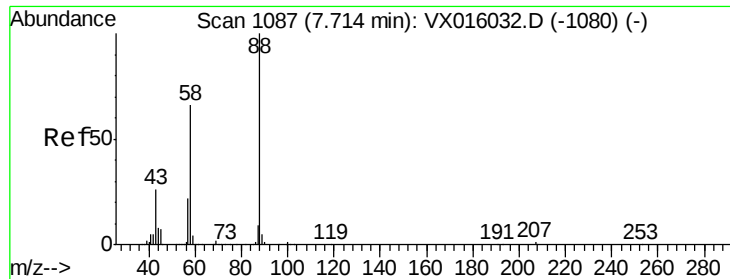
Ion Ratio Lower Upper

41 100

69 0.0 67.8 101.6#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.147 ug/l

RT: 7.84 min Scan# 1108

Delta R.T. 0.13 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

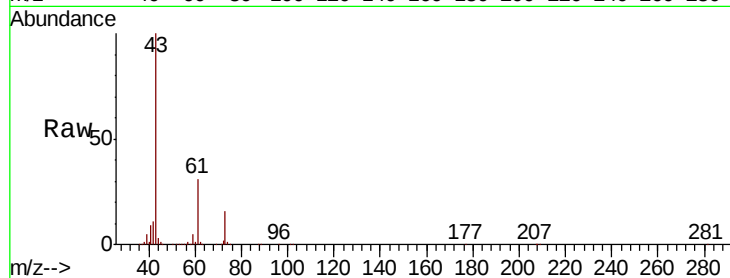
Tot Ion: 88 Resp: 193

Ion Ratio Lower Upper

88 100

43 617372.0 25.3 37.9#

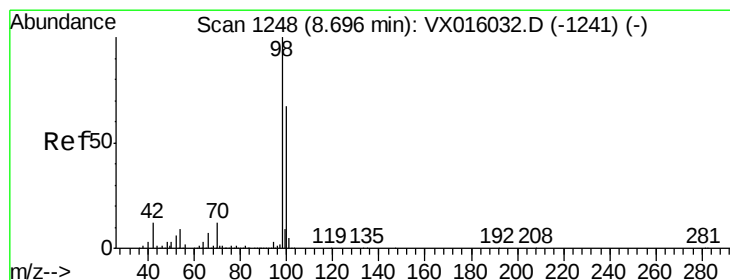
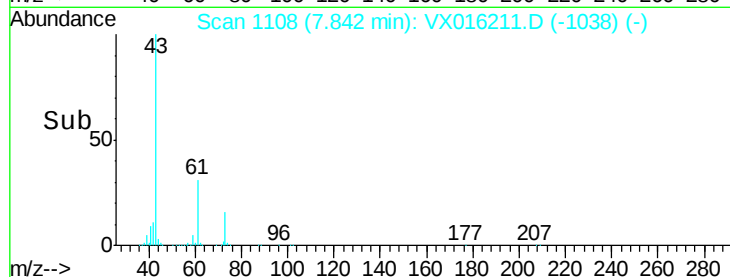
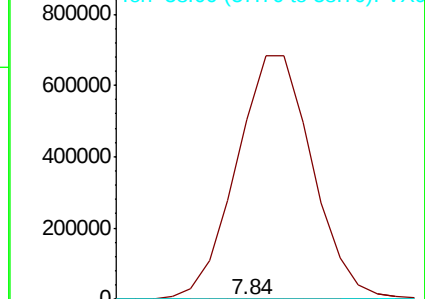
58 2704.7 55.9 83.9#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.749 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016211.D

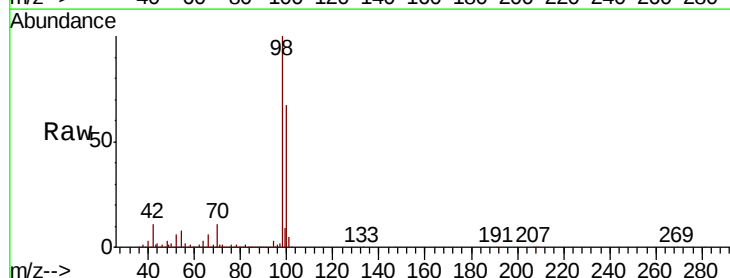
Acq: 14 May 2020 04:17

Tgt Ion: 98 Resp: 538346

Ion Ratio Lower Upper

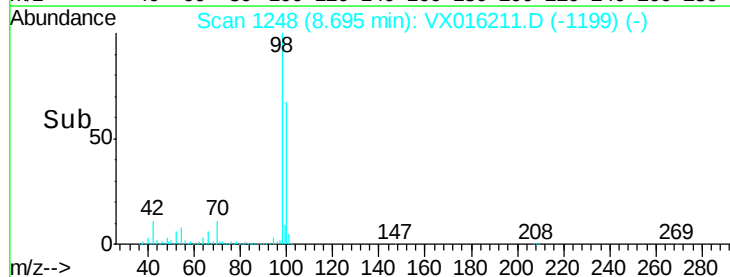
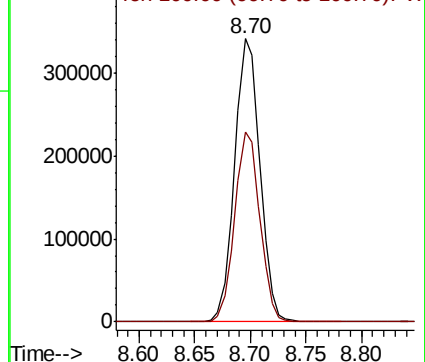
98 100

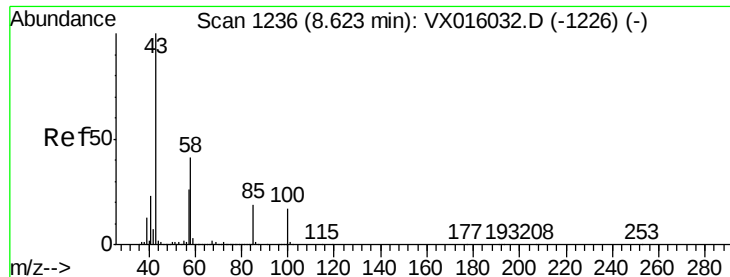
100 66.7 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 14.541 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

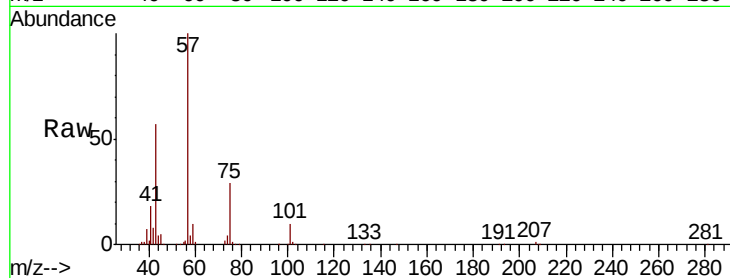
239996

Tot Ion: 43 Resp: 70392

Ion Ratio Lower Upper

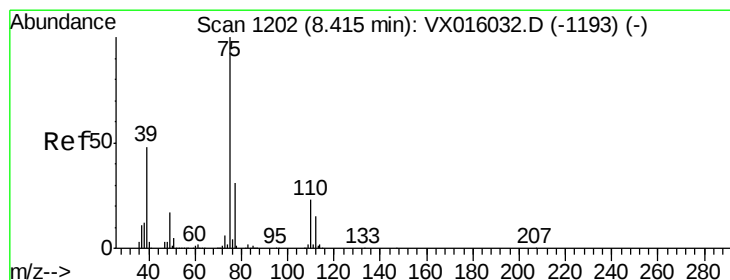
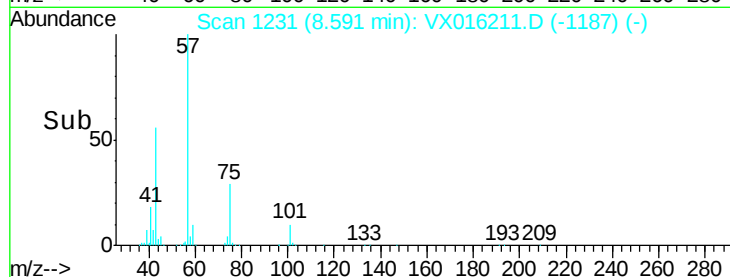
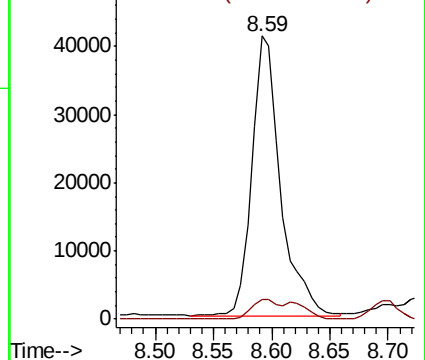
43 100

58 7.0 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 6.169 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

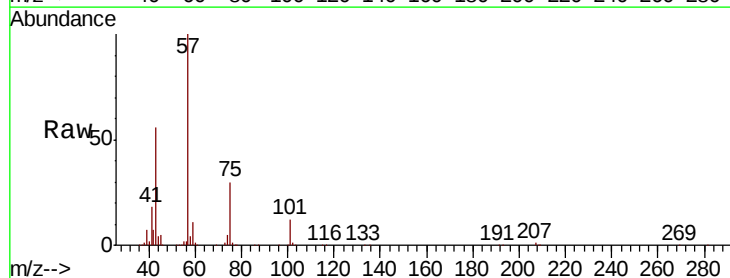
Tgt Ion: 75 Resp: 33678

Ion Ratio Lower Upper

75 100

77 0.4 24.7 37.1#

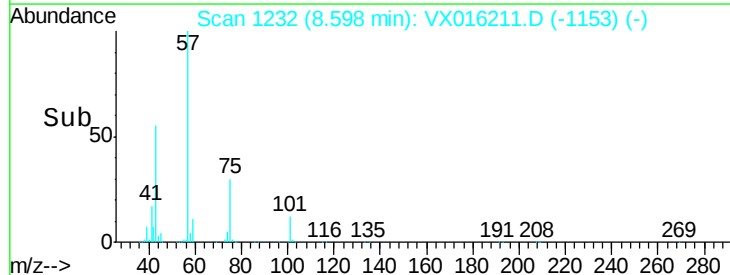
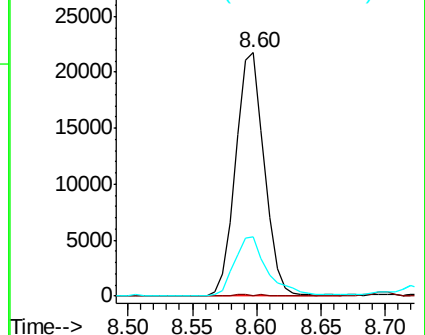
39 24.1 38.7 58.1#

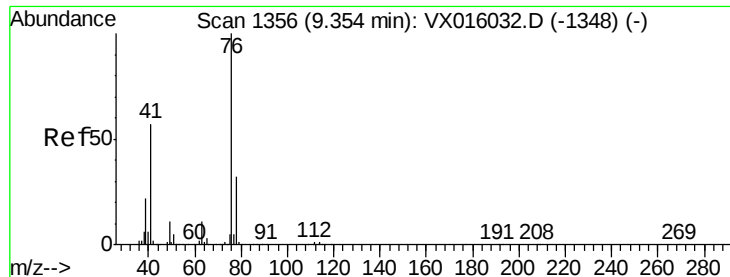


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.017 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

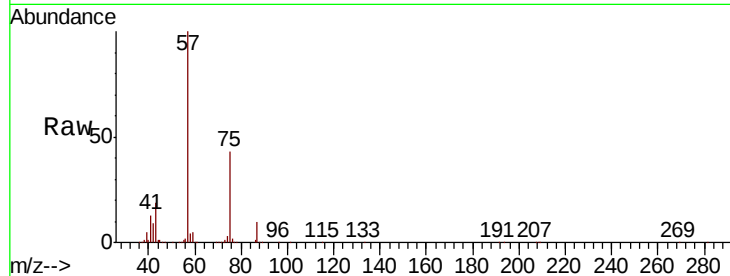
239996

Tot Ion: 76 Resp: 5445

Ion Ratio Lower Upper

76 100

78 1.5 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.52

4000

3000

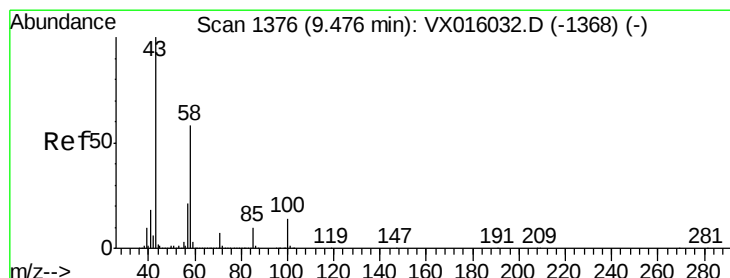
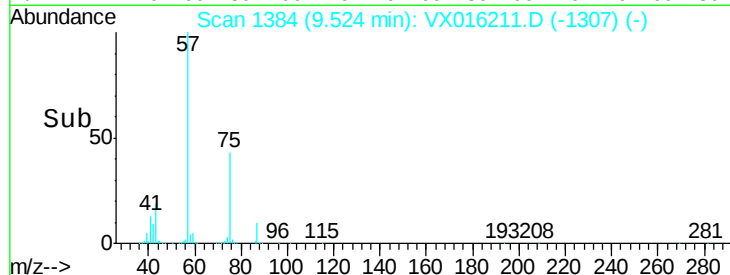
2000

1000

0

9.50 9.55

Time-->



#59

2-Hexanone

Concen: 18.076 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016211.D

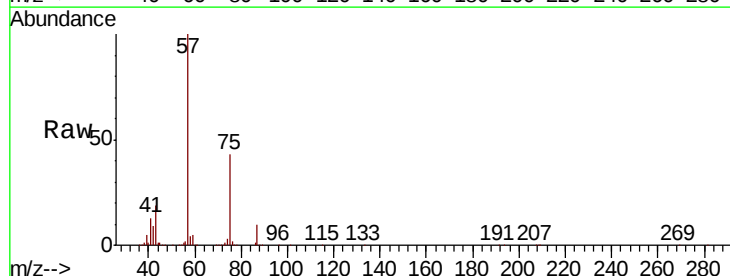
Acq: 14 May 2020 04:17

Tgt Ion: 43 Resp: 68716

Ion Ratio Lower Upper

43 100

58 20.7 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.52

60000

50000

40000

30000

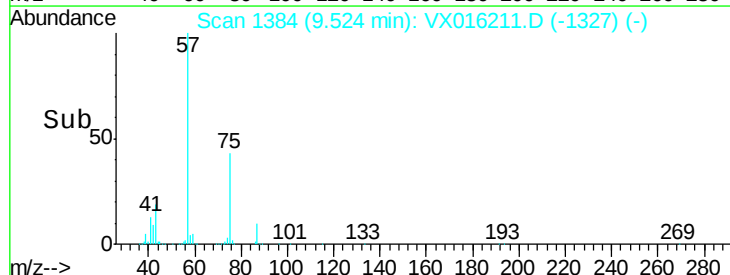
20000

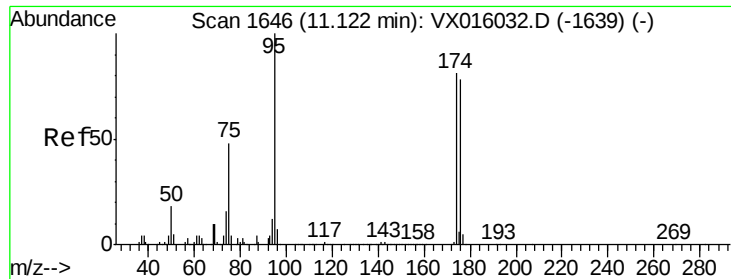
10000

0

9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 53.011 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

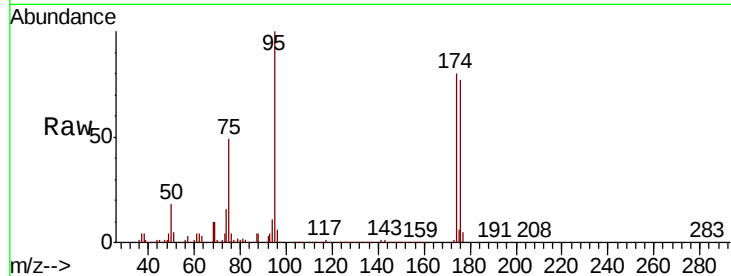
Tot Ion: 95 Resp: 213888

Ion Ratio Lower Upper

95 100

174 82.2 0.0 159.4

176 78.9 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016032.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016032.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016032.D (-1639) (-)

11.12

200000

150000

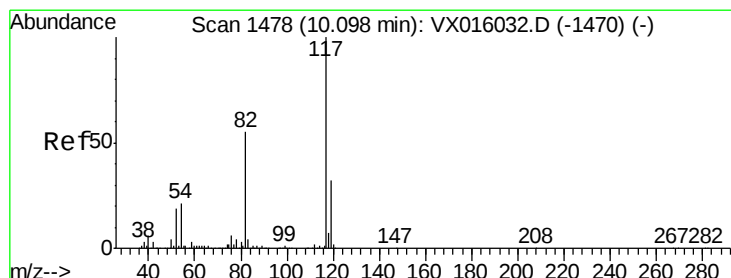
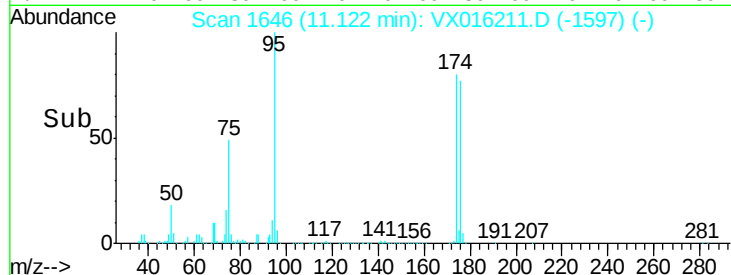
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

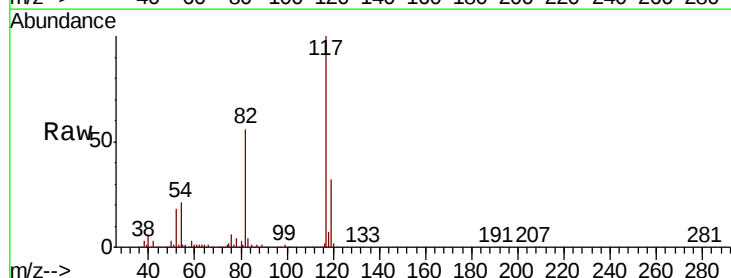
Tgt Ion: 117 Resp: 430108

Ion Ratio Lower Upper

117 100

82 56.3 44.4 66.6

119 32.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VX016032.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016032.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016032.D (-1470) (-)

10.10

400000

300000

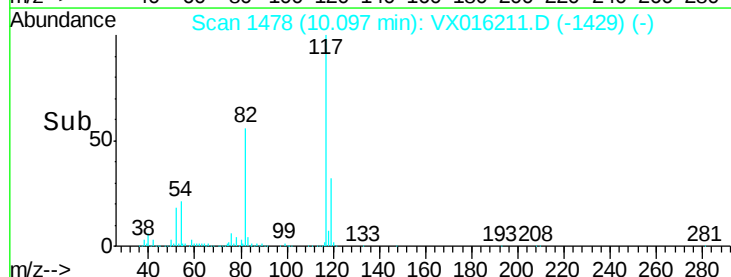
200000

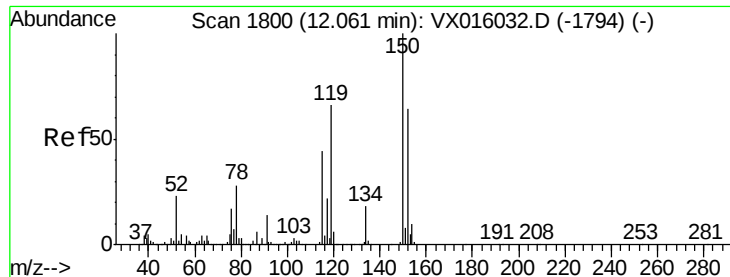
100000

0

10.00 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

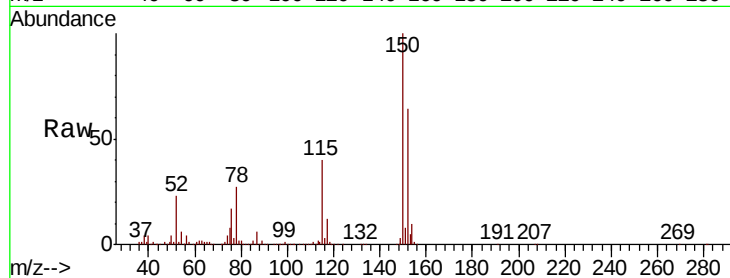
Tot Ion:152 Resp: 214999

Ion Ratio Lower Upper

152 100

115 60.0 41.3 124.1

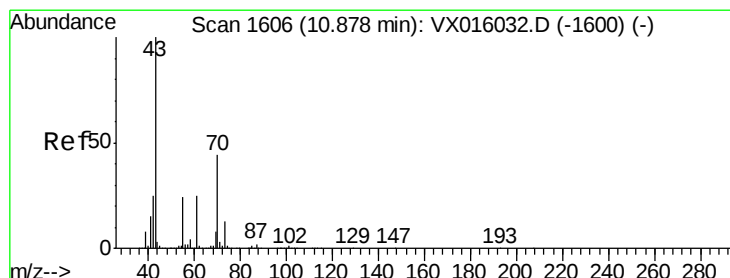
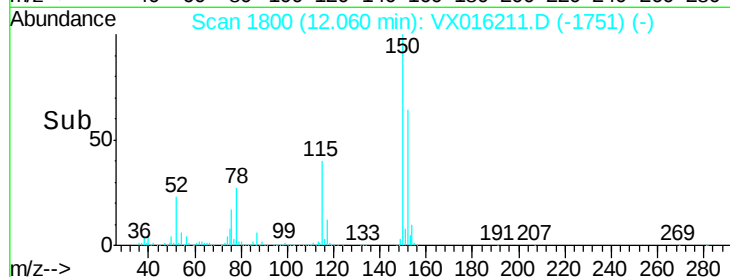
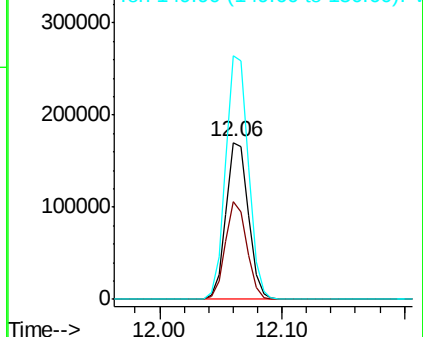
150 156.9 0.0 352.2



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



#74

N-ethyl acetate

Concen: 0.821 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Tgt Ion: 43 Resp: 5991

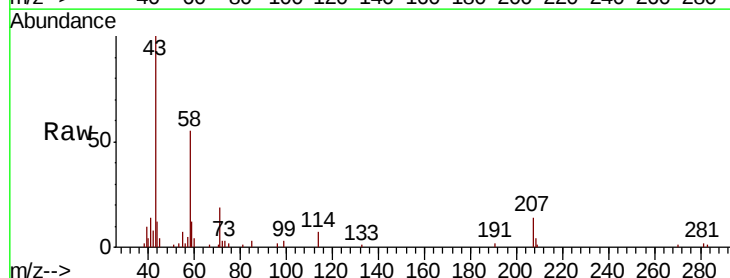
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 10.0 19.7 29.5#

61 0.0 20.9 31.3#

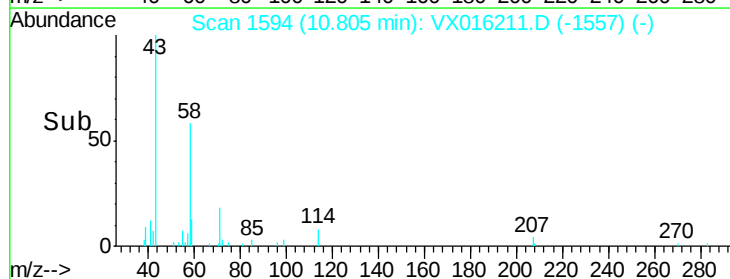
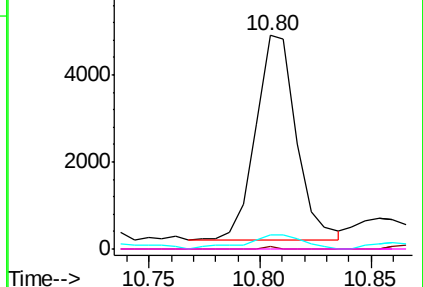


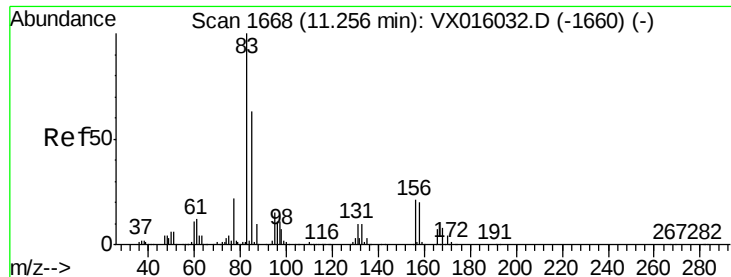
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.071 ug/l

RT: 11.31 min Scan# 1677

Delta R.T. 0.05 min

Lab File: VX016211.D

Acq: 14 May 2020 04:17

Instrument :

MSVOA_X

ClientSampleId :

239996

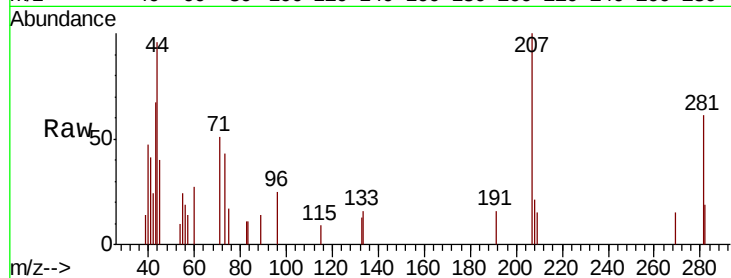
Tot Ion: 83 Resp: 64

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

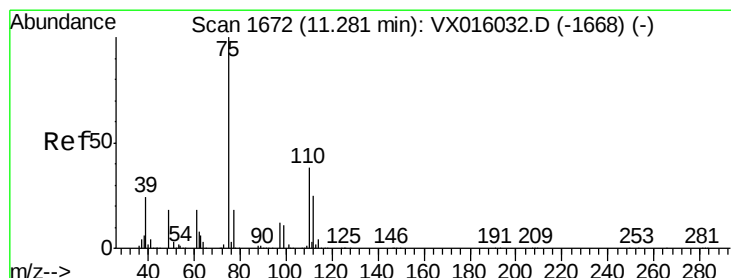
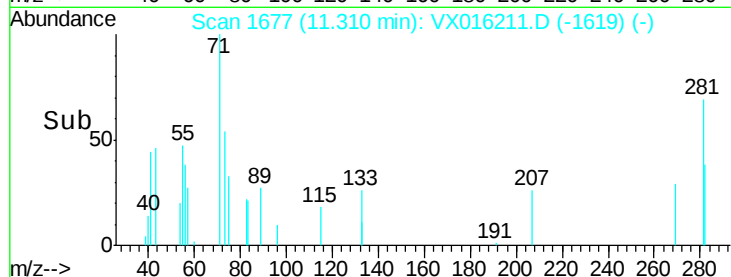
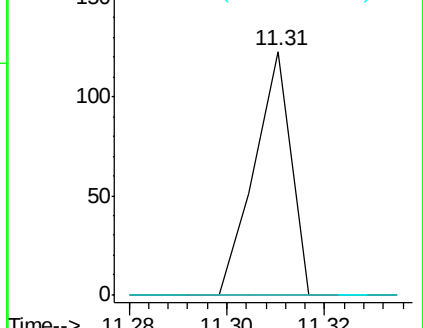
85 0.0 32.0 96.0#



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: 21.816 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016211.D

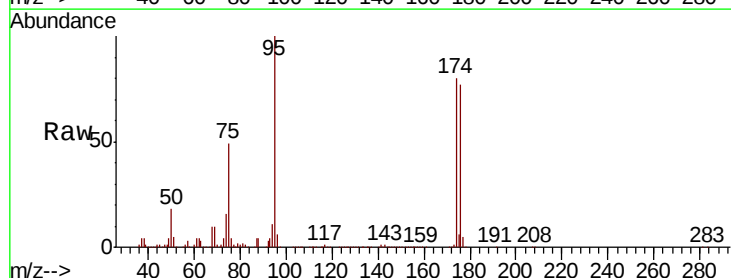
Acq: 14 May 2020 04:17

Tgt Ion: 75 Resp: 106438

Ion Ratio Lower Upper

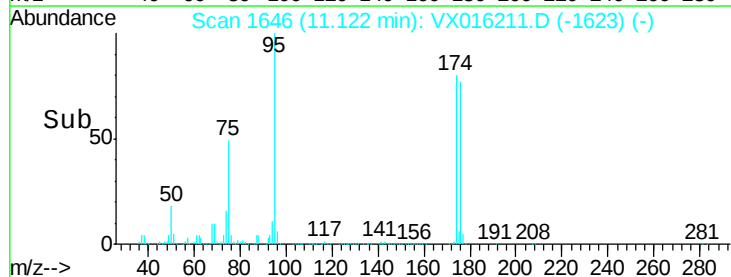
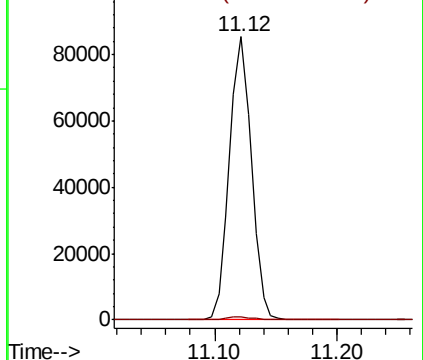
75 100

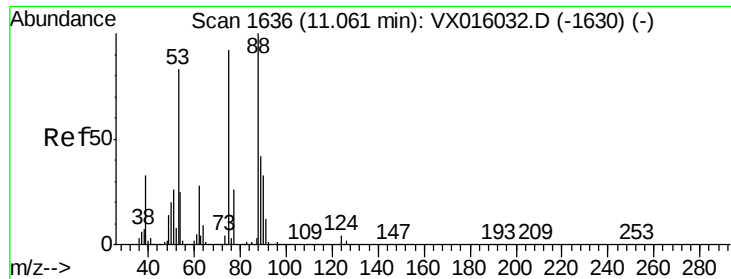
77 1.4 21.2 63.6#



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: 51.990 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016211.D
 Acq: 14 May 2020 04:17

Instrument :
 MSVOA_X
 ClientSampleId :
 239996

Tot Ion: 75 Resp: 106438
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#

