

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051320\
 Data File : VX016203.D
 Acq On : 14 May 2020 01:16
 Operator : JC/SP
 Sample : PB128838ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128838ZHE#04

Quant Time: May 14 04:47:30 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	276609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	462839	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	452968	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	237574	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	172248	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
35) Dibromofluoromethane	5.47	113	140318	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
50) Toluene-d8	8.70	98	572714	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.12	95	227548	52.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.90%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	3.00	59	2388	2.594	ug/l	95
13) Acrolein	2.29	56	376	0.653	ug/l #	45
16) Acetone	2.42	43	15702	9.668	ug/l	96
17) Carbon Disulfide	2.55	76	1551	Below Cal	#	79
18) Methyl Acetate	2.75	43	3447	0.863	ug/l	95
20) Methylene Chloride	2.84	84	5883	1.757	ug/l	94
25) 2-Butanone	4.64	43	9459	3.614	ug/l	97
29) Tetrahydrofuran	5.12	42	1576	0.909	ug/l #	62
31) Cyclohexane	5.64	56	5472	1.082	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20515	4.503	ug/l #	41
37) Ethyl Acetate	4.64	43	9402	1.781	ug/l #	69
38) Carbon Tetrachloride	5.63	117	26842	5.796	ug/l #	14
43) Isopropyl Acetate	6.42	43	84948	10.083	ug/l	98
48) Methyl methacrylate	7.65	41	5402	1.353	ug/l #	14
49) 1,4-Dioxane	7.74	88	22	0.230	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	80800	15.672	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	39635	6.817	ug/l #	55
56) Ethyl methacrylate	9.29	69	1127	0.211	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6796	1.191	ug/l #	43
59) 2-Hexanone	9.52	43	84809	20.946	ug/l #	50
74) N-amyl acetate	10.81	43	5035	0.625	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.31	83	45	2.063	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	112470	20.862	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	3247	0.223	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.12	75	112470	49.716	ug/l #	13
94) Hexachlorobutadiene	13.77	225	183	0.597	ug/l	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

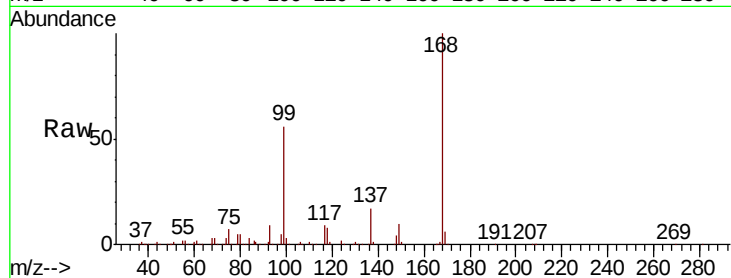
PB128838ZHE#04

Tot Ion:168 Resp: 276609

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

5.64

100000

80000

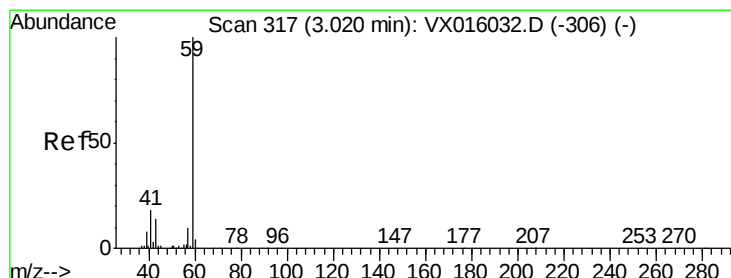
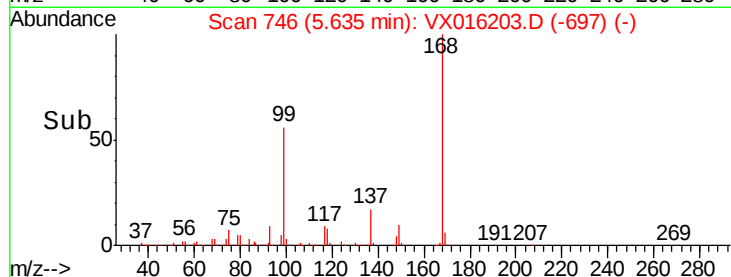
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.594 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016203.D

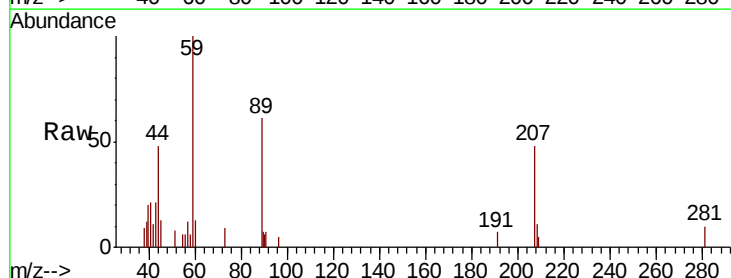
Acq: 14 May 2020 01:16

Tgt Ion: 59 Resp: 2388

Ion Ratio Lower Upper

59 100

57 8.3 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1200

1000

800

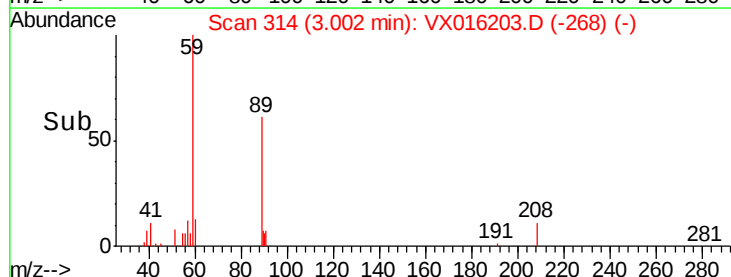
600

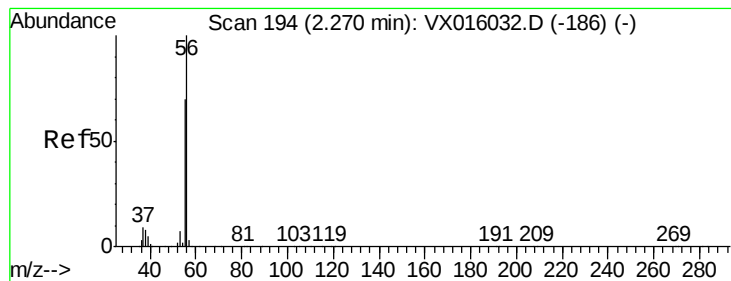
400

200

0

Time-->





#13

Acrolein

Concen: 0.653 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

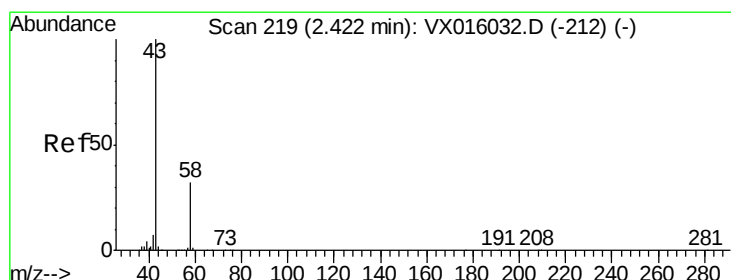
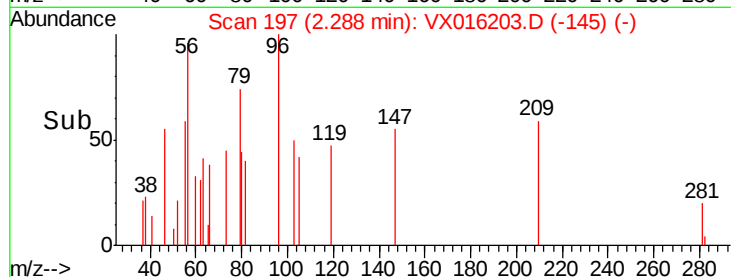
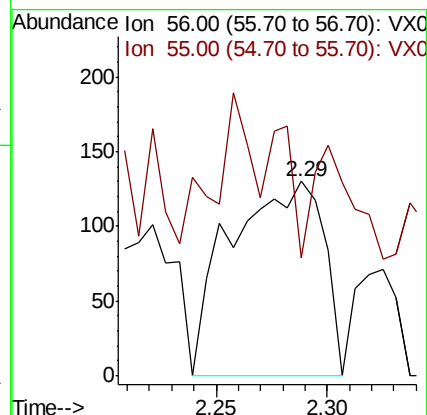
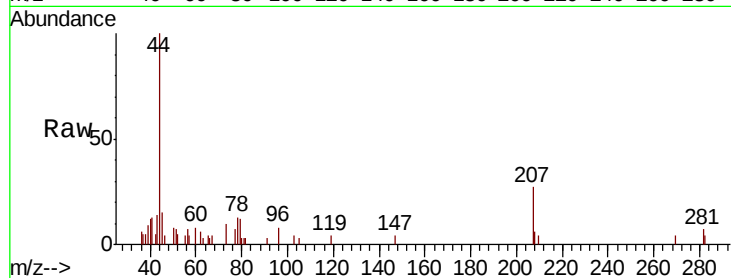
PB128838ZHE#04

Tot Ion: 56 Resp: 376

Ion Ratio Lower Upper

56 100

55 25.0 56.5 84.7#



#16

Acetone

Concen: 9.668 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016203.D

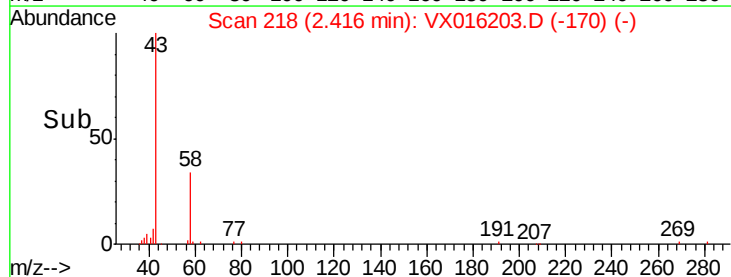
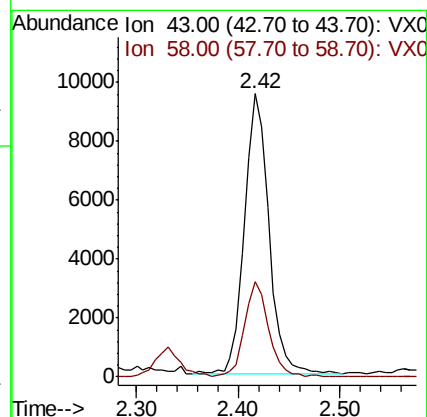
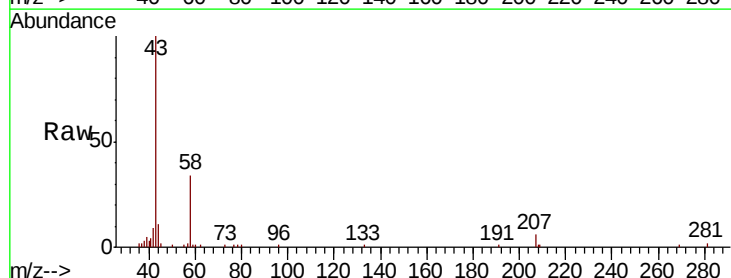
Acq: 14 May 2020 01:16

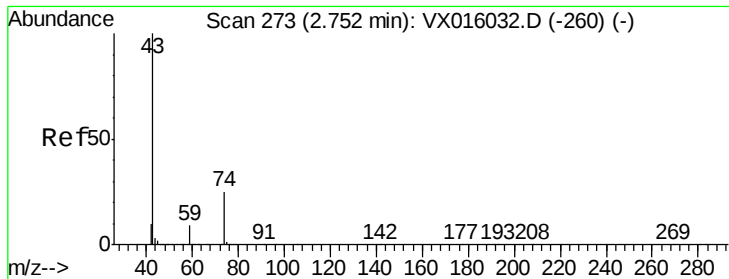
Tgt Ion: 43 Resp: 15702

Ion Ratio Lower Upper

43 100

58 33.9 25.4 38.0

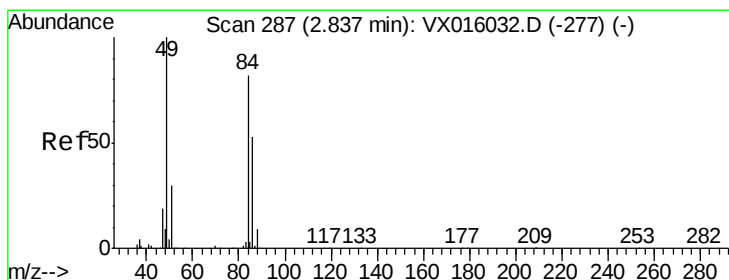
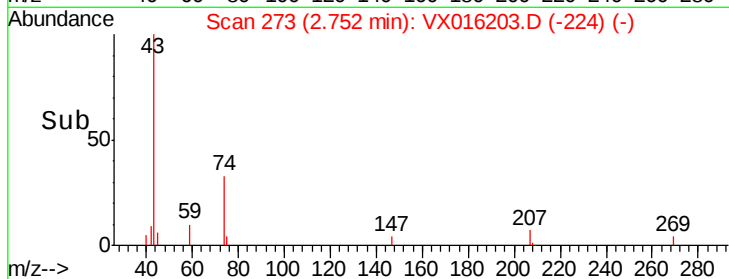
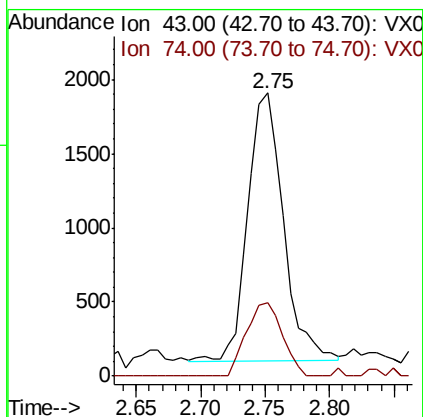
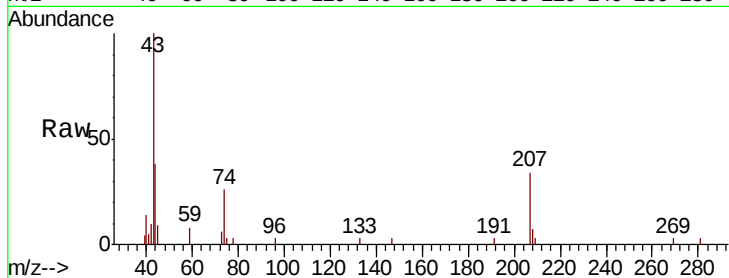




#18
Methyl Acetate
Concen: 0.863 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX016203.D
Acq: 14 May 2020 01:16

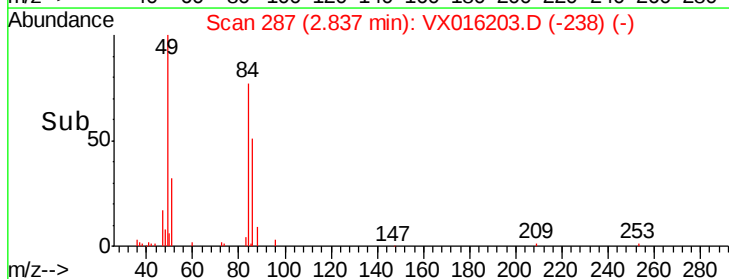
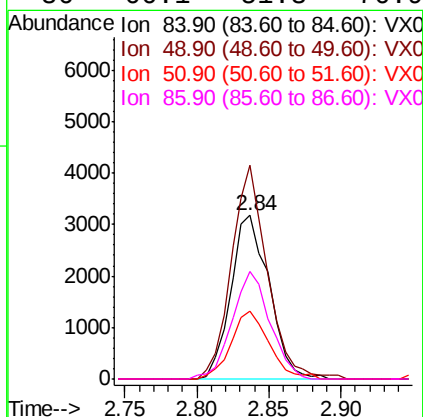
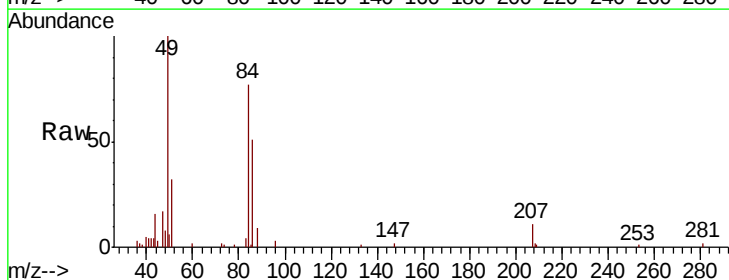
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#04

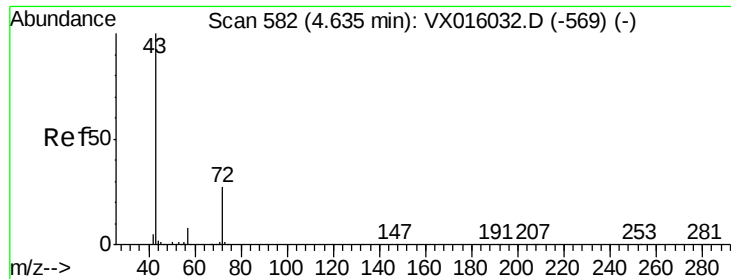
Tot Ion: 43 Resp: 3447
Ion Ratio Lower Upper
43 100
74 27.6 20.2 30.2



#20
Methylene Chloride
Concen: 1.757 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016203.D
Acq: 14 May 2020 01:16

Tgt Ion: 84 Resp: 5883
Ion Ratio Lower Upper
84 100
49 130.5 97.3 145.9
51 41.5 29.3 43.9
86 66.1 51.3 76.9





#25

2-Butanone

Concen: 3.614 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

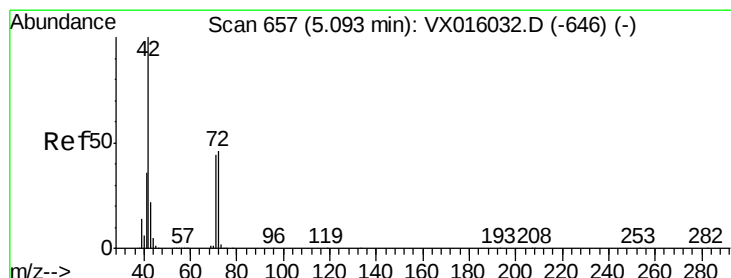
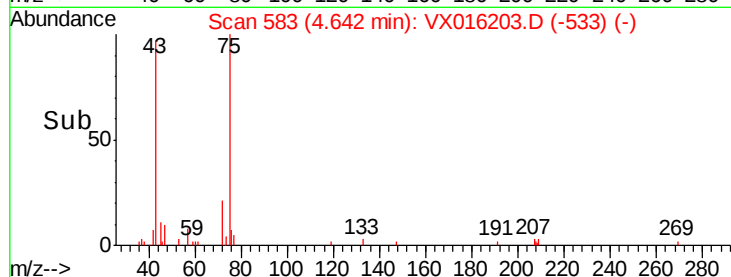
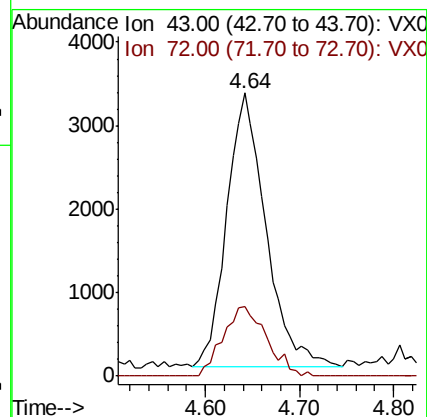
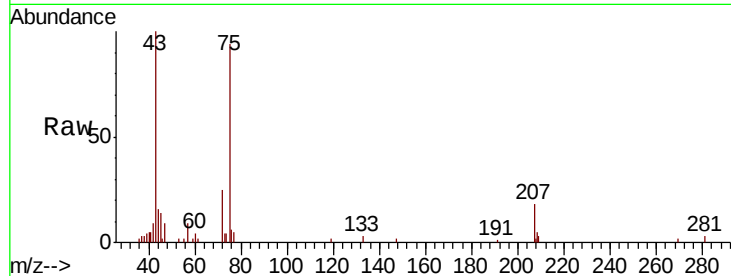
PB128838ZHE#04

Tot Ion: 43 Resp: 9459

Ion Ratio Lower Upper

43 100

72 25.7 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.909 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

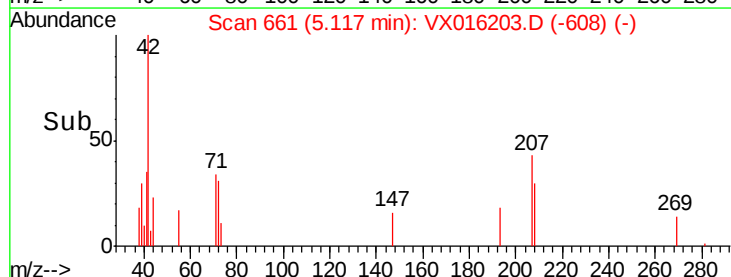
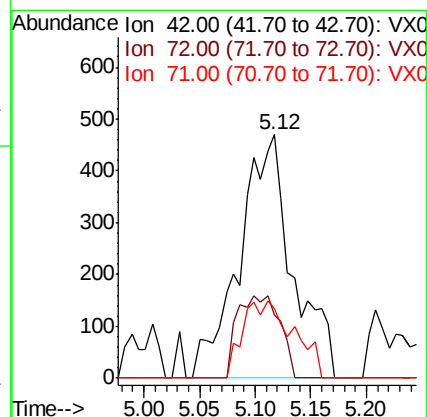
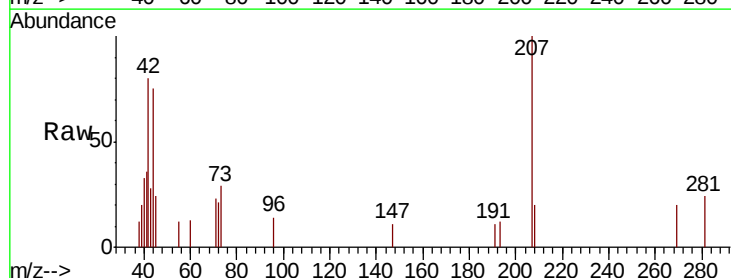
Tgt Ion: 42 Resp: 1576

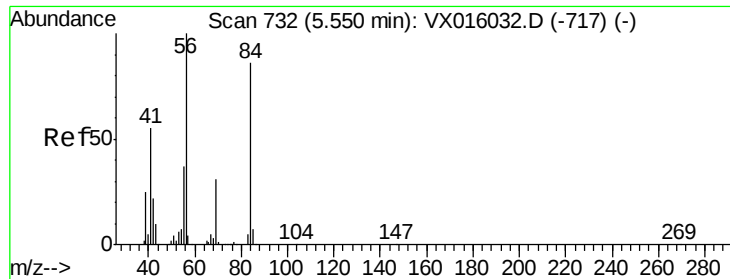
Ion Ratio Lower Upper

42 100

72 26.8 37.1 55.7#

71 12.2 34.5 51.7#





#31

Cyclohexane

Concen: 1.082 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#04

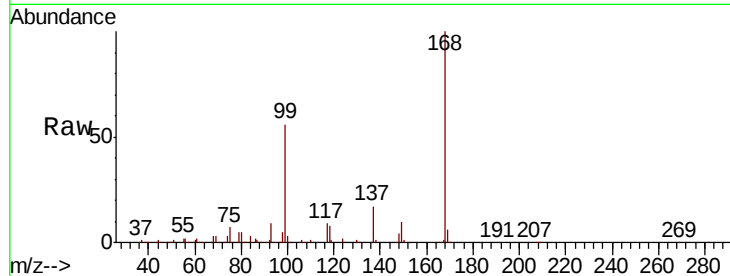
Tot Ion: 56 Resp: 5472

Ion Ratio Lower Upper

56 100

69 174.7 25.0 37.6#

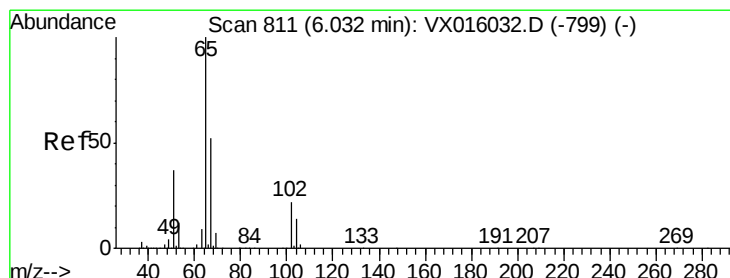
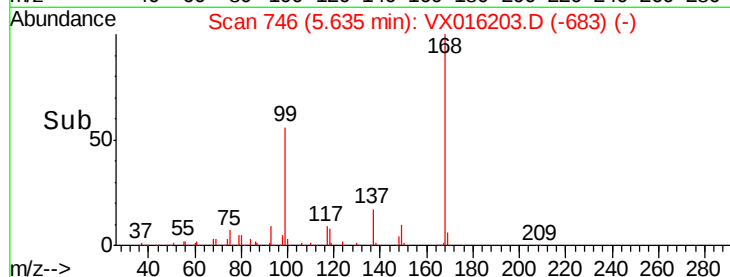
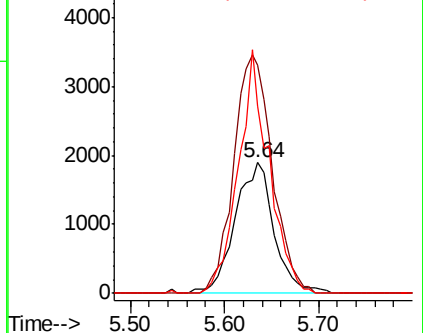
84 143.1 69.0 103.6#



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: 47.322 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016203.D

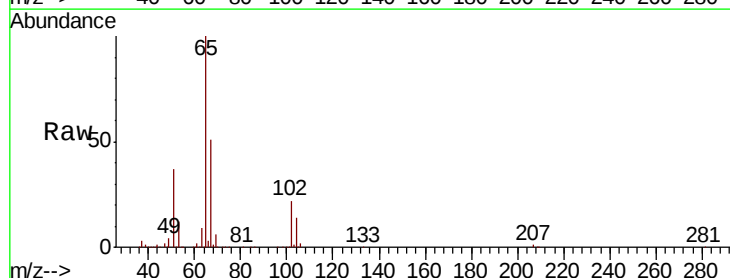
Acq: 14 May 2020 01:16

Tgt Ion: 65 Resp: 172248

Ion Ratio Lower Upper

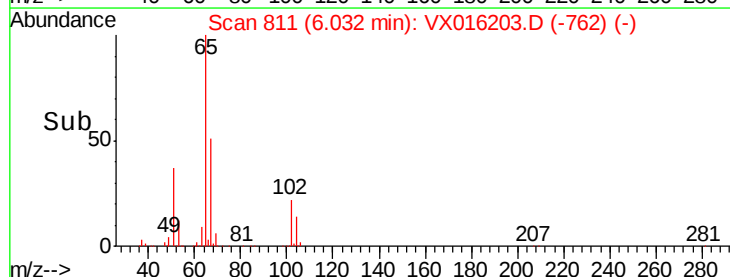
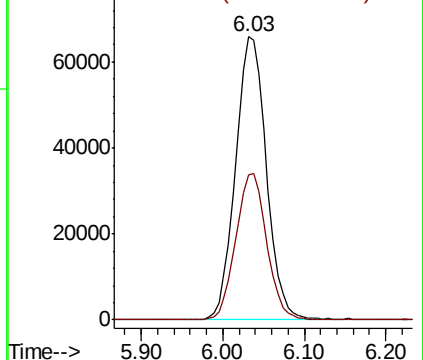
65 100

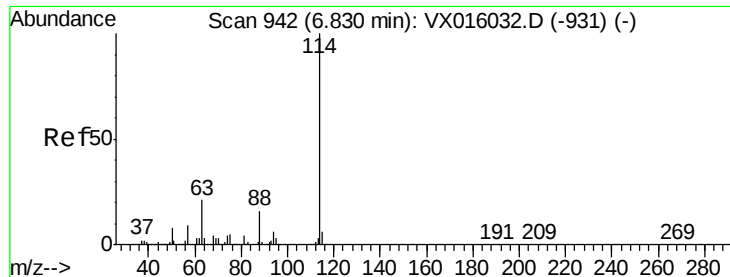
67 51.8 0.0 104.8



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: VX016203.D

Acq: 14 May 2020 01:16

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PB128838ZHE#04

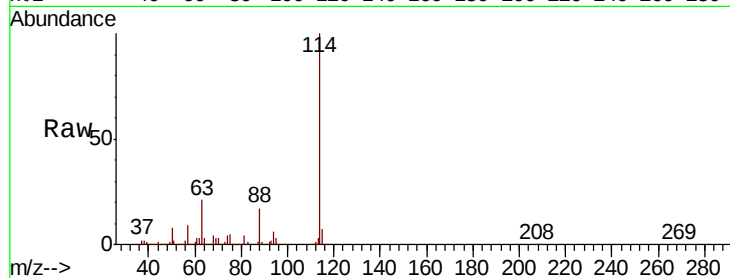
Tot Ion:114 Resp: 462839

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

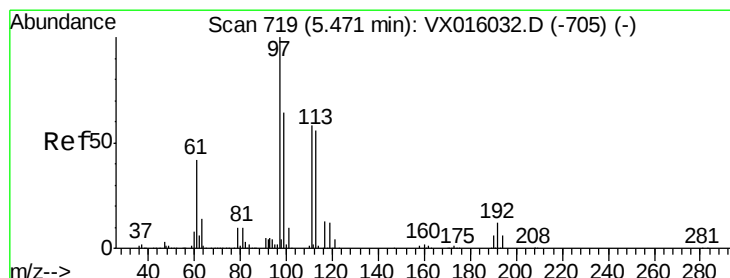
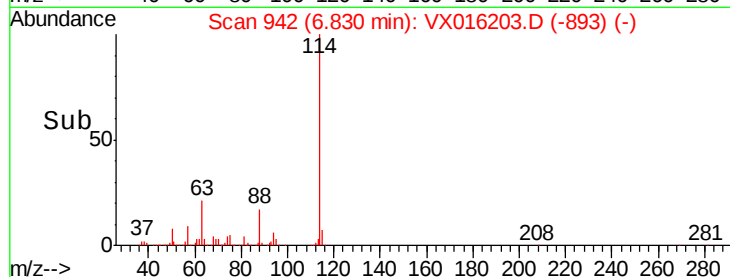
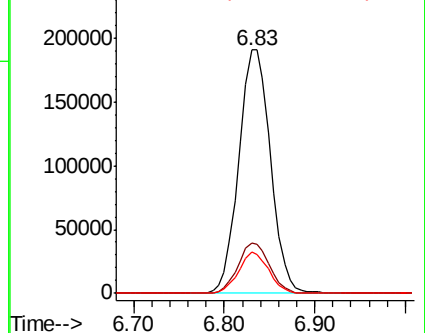
88 16.8 0.0 31.4



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



#35

Dibromofluoromethane

Concen: 47.853 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

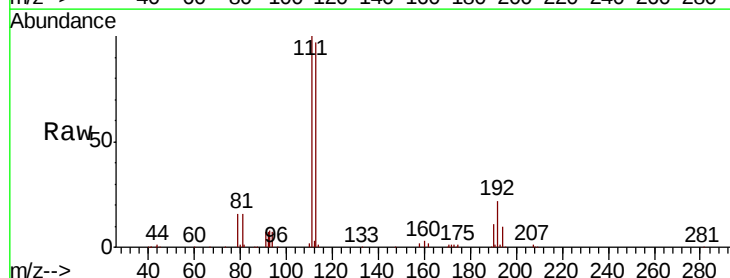
Tgt Ion:113 Resp: 140318

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

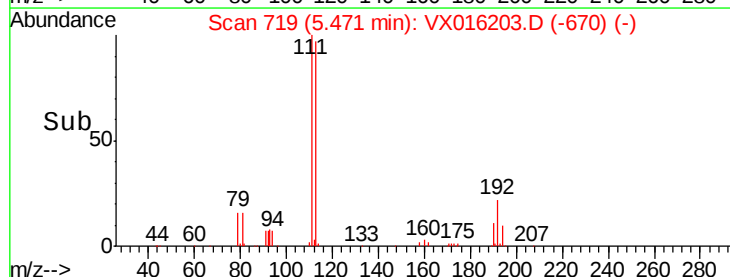
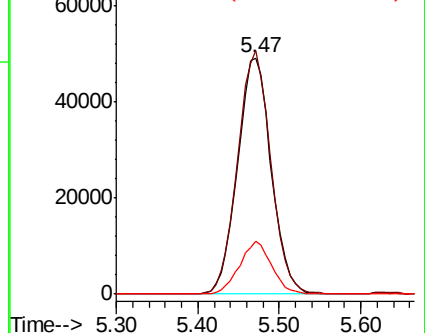
192 21.5 17.0 25.4

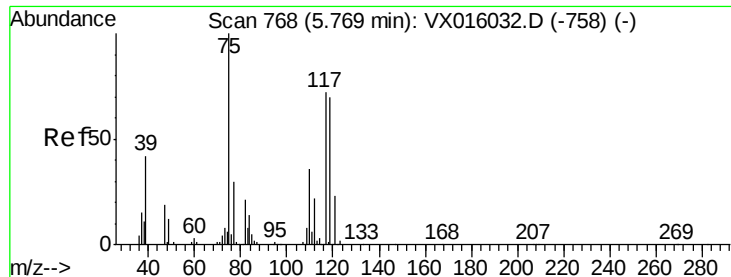


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.503 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

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PB128838ZHE#04

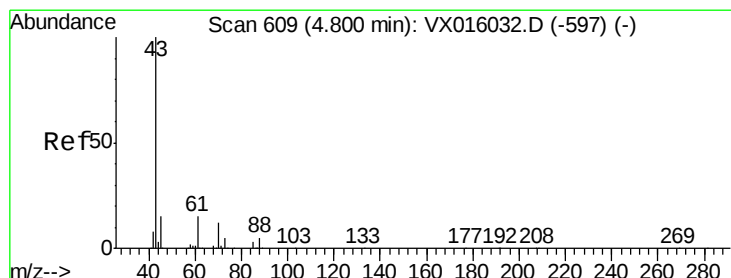
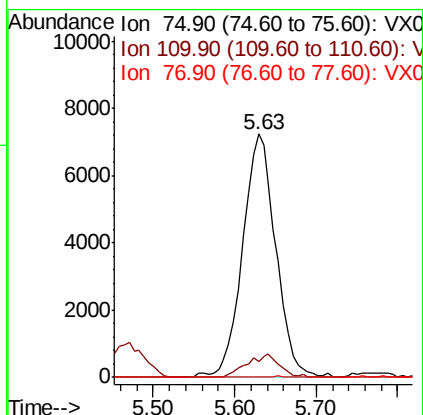
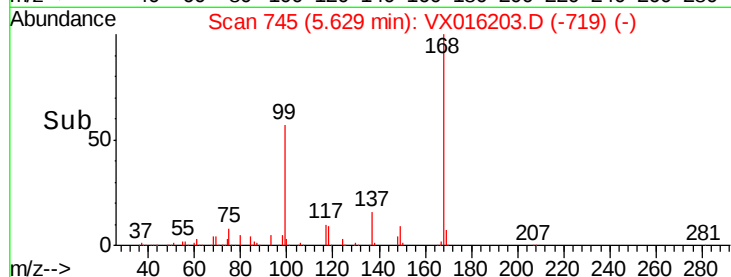
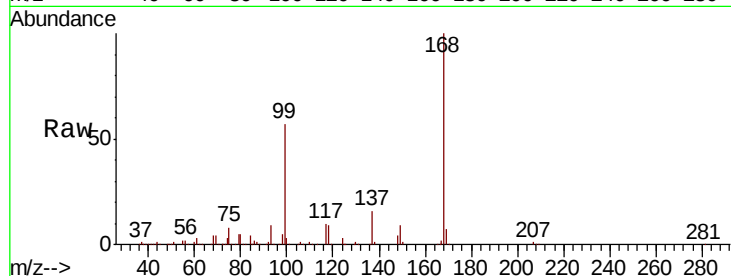
Tot Ion: 75 Resp: 20515

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.0 25.0 37.6#



#37

Ethyl Acetate

Concen: 1.781 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

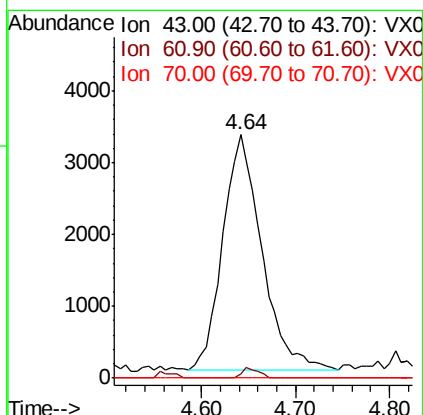
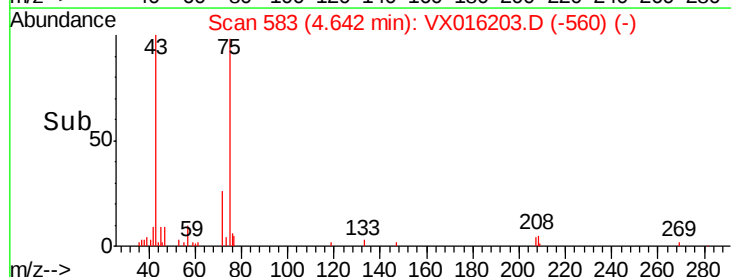
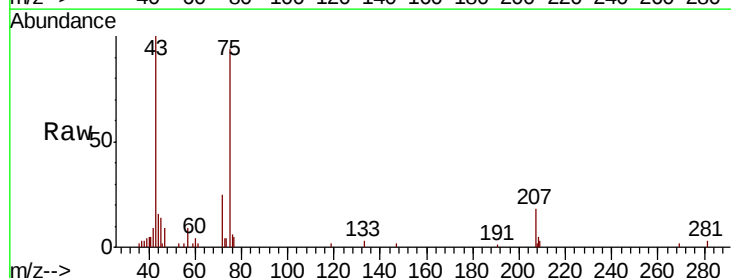
Tgt Ion: 43 Resp: 9402

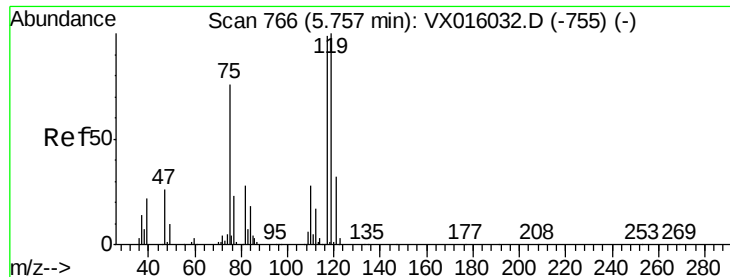
Ion Ratio Lower Upper

43 100

61 1.9 11.7 17.5#

70 0.0 9.3 13.9#





#38

Carbon Tetrachloride

Concen: 5.796 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#04

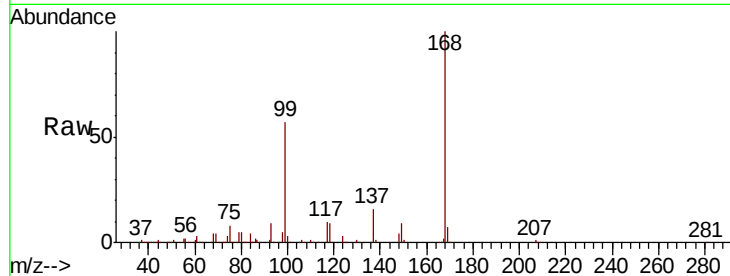
Tot Ion:117 Resp: 26842

Ion Ratio Lower Upper

117 100

119 4.4 80.3 120.5#

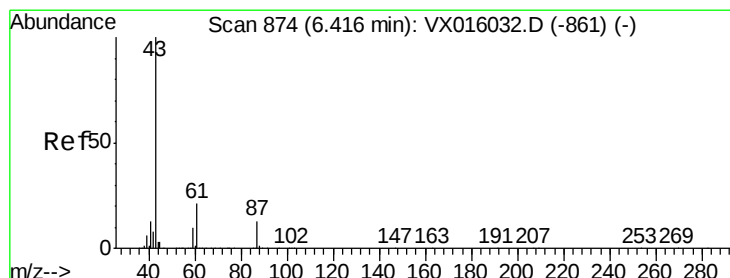
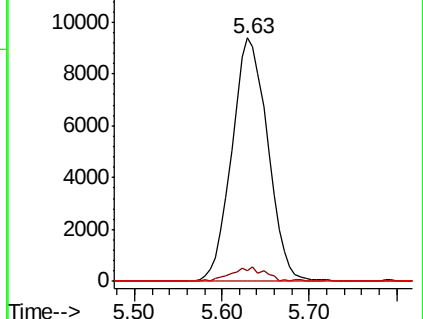
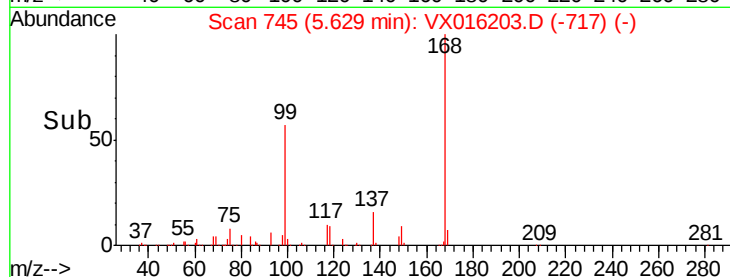
121 0.0 25.7 38.5#



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



#43

Isopropyl Acetate

Concen: 10.083 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.00 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

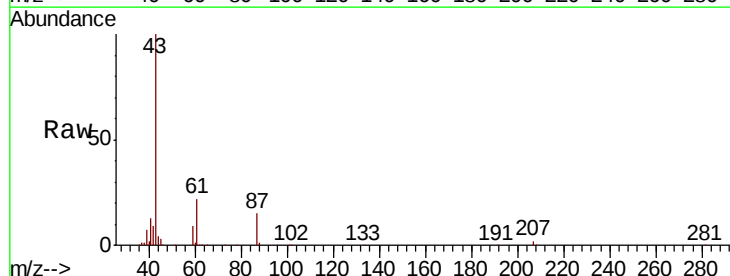
Tgt Ion: 43 Resp: 84948

Ion Ratio Lower Upper

43 100

61 22.1 17.0 25.4

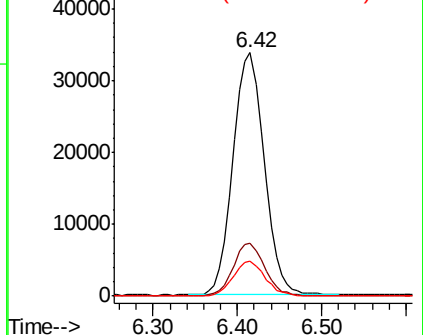
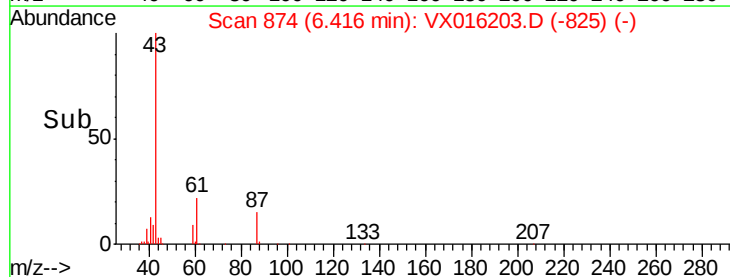
87 14.6 11.0 16.6

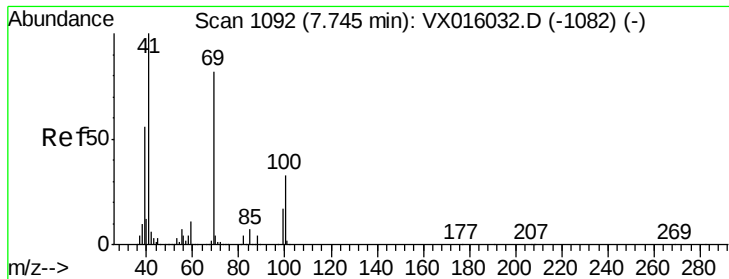


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

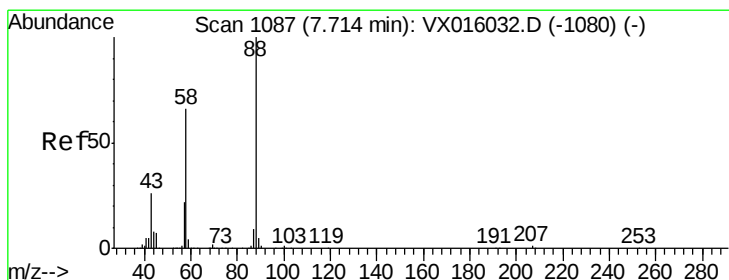
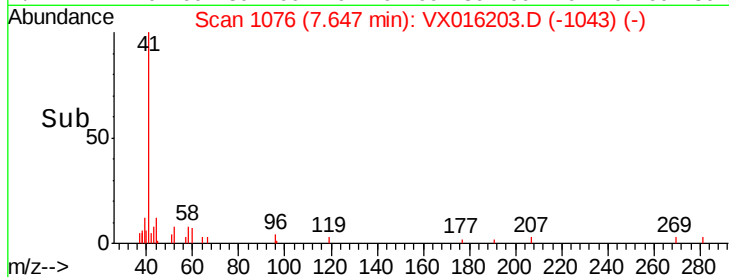
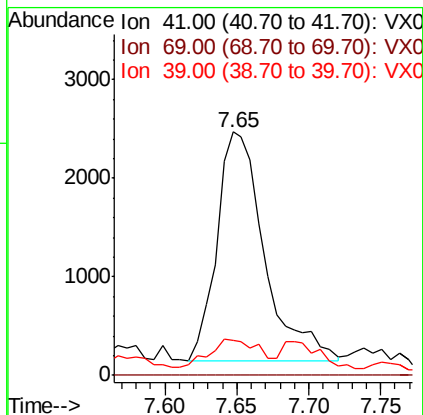
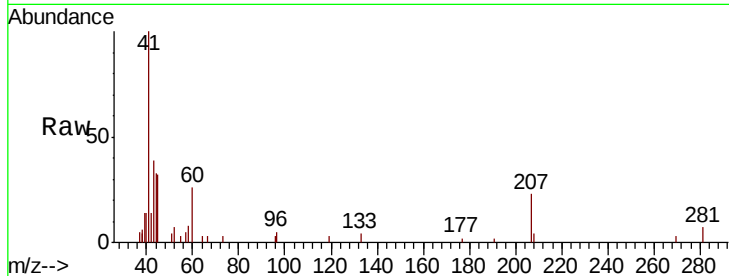




#48
Methvl methacrylate
Concen: 1.353 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX016203.D
Acq: 14 May 2020 01:16

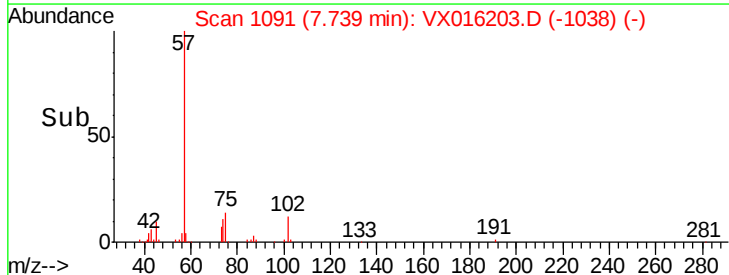
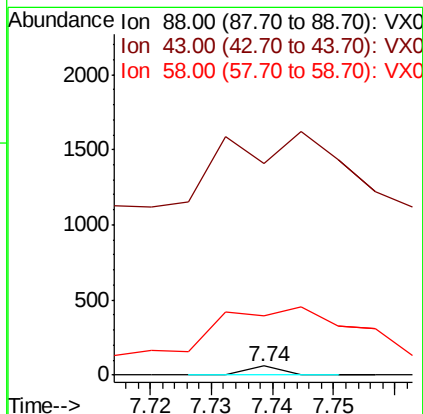
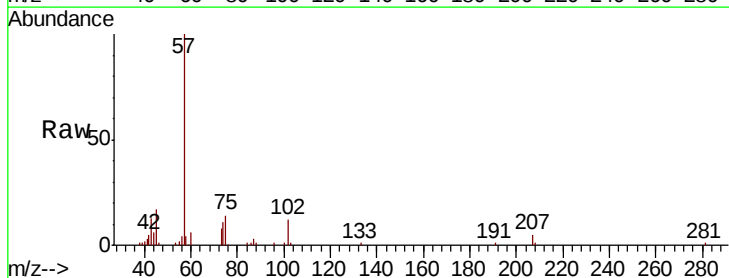
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#04

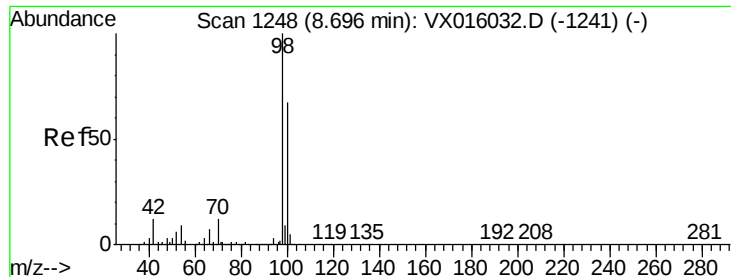
Tot Ion: 41 Resp: 5402
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 0.230 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX016203.D
Acq: 14 May 2020 01:16

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 4036.4 55.9 83.9#





#50

Toluene-d8

Concen: 50.690 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

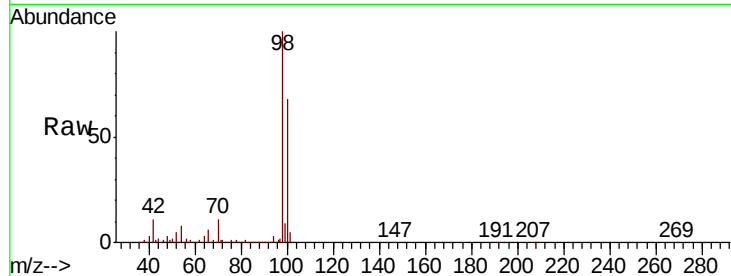
PB128838ZHE#04

Tot Ion: 98 Resp: 572714

Ion Ratio Lower Upper

98 100

100 67.4 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

400000

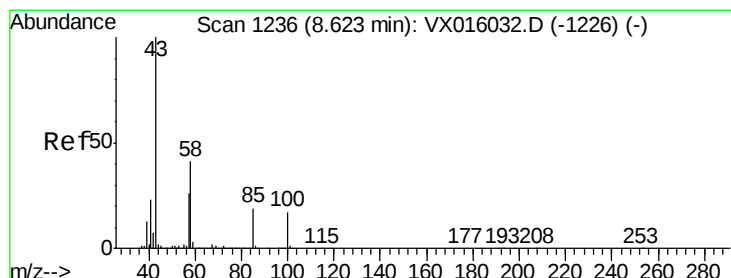
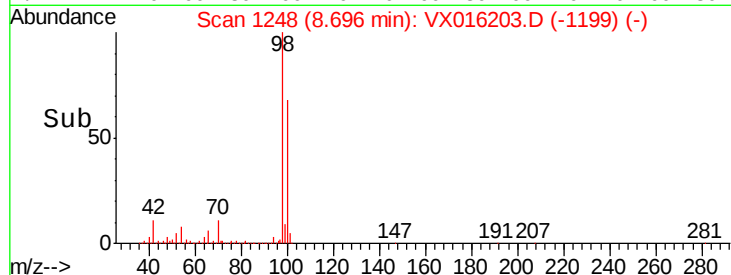
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 15.672 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016203.D

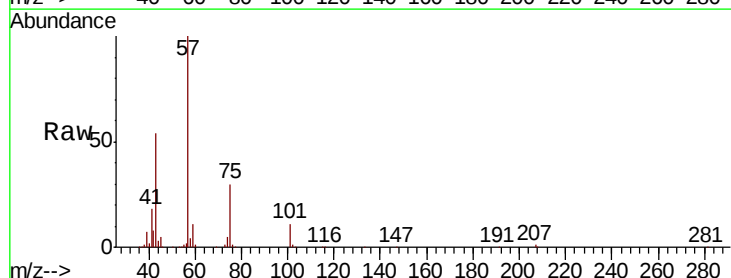
Acq: 14 May 2020 01:16

Tgt Ion: 43 Resp: 80800

Ion Ratio Lower Upper

43 100

58 6.8 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

50000

40000

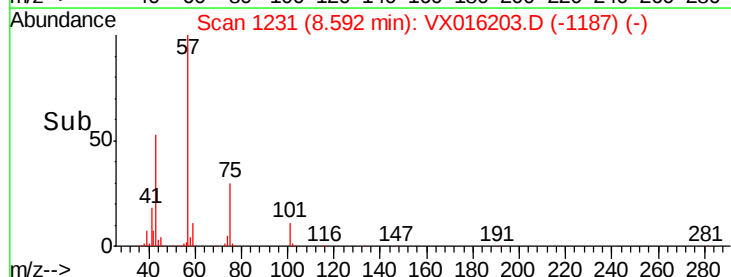
30000

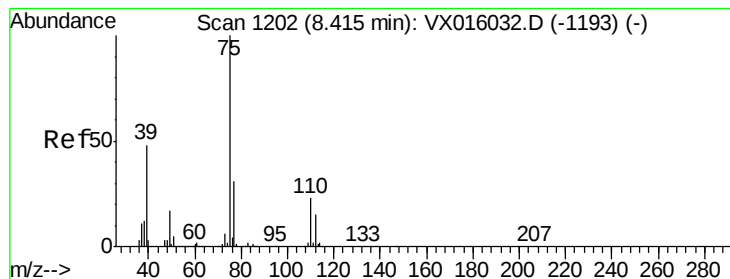
20000

10000

0

Time-->



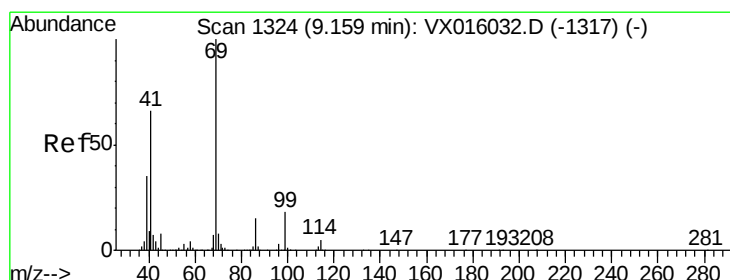
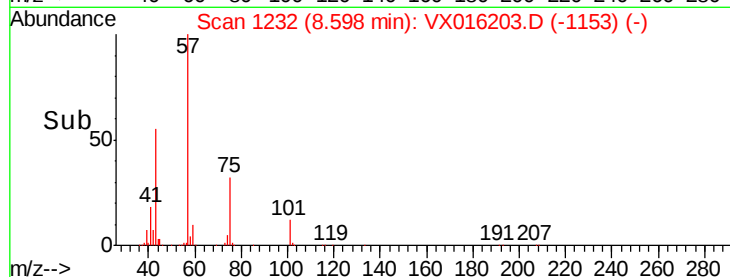
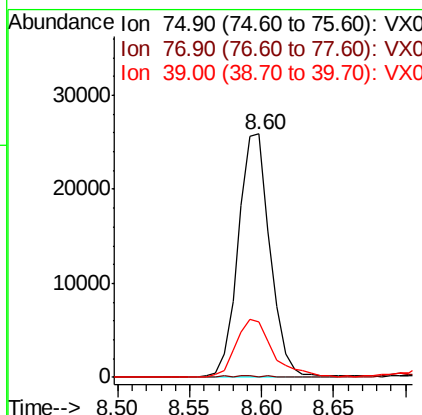
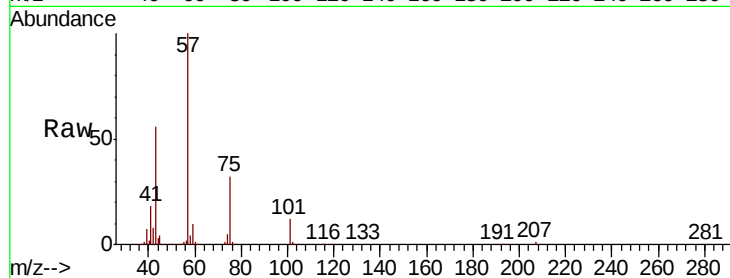


#54

cis-1,3-Dichloropropene
 Concen: 6.817 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX016203.D
 Acq: 14 May 2020 01:16

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128838ZHE#04

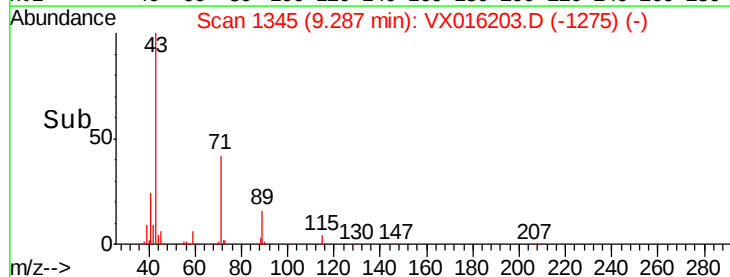
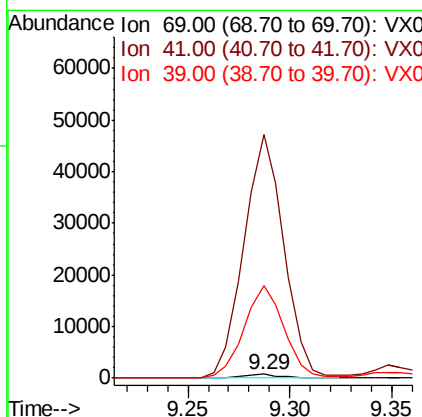
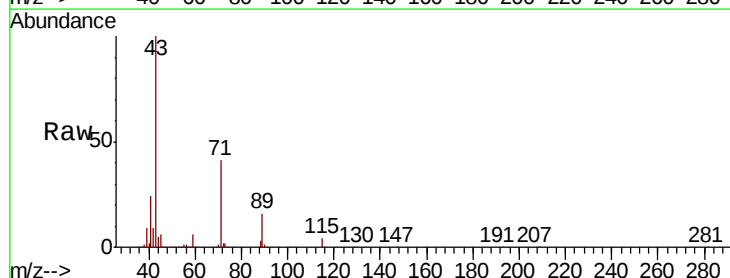
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.4	24.7	37.1#
39	22.9	38.7	58.1#

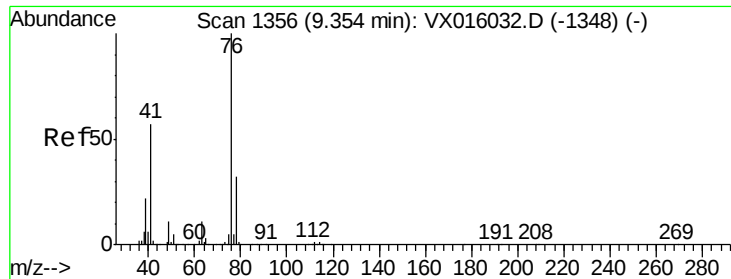


#56

Ethyl methacrylate
 Concen: 0.211 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX016203.D
 Acq: 14 May 2020 01:16

Tgt Ion	Ratio	Lower	Upper
69	100		
41	5713.0	52.2	78.4#
39	2165.0	28.2	42.4#





#57

1,3-Dichloropropane

Concen: 1.191 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

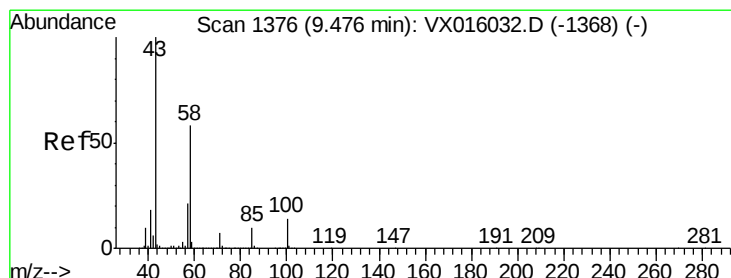
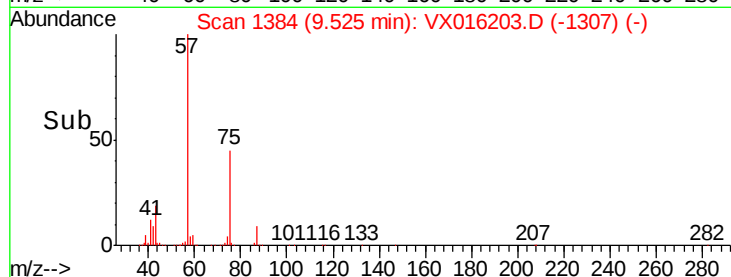
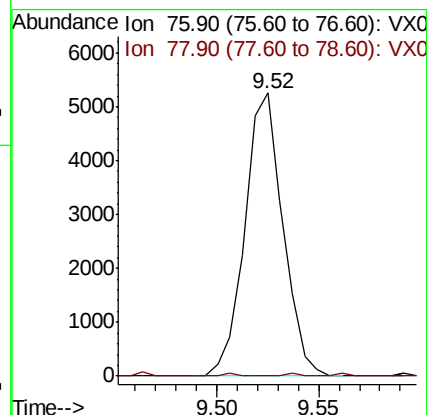
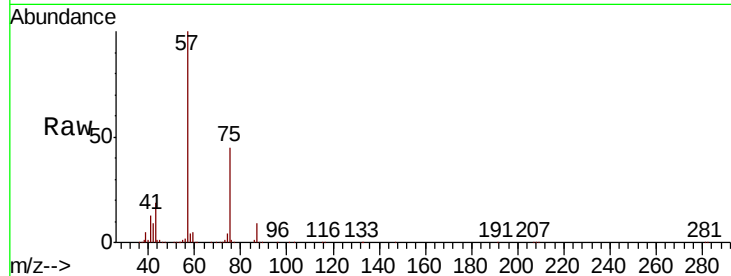
PB128838ZHE#04

Tot Ion: 76 Resp: 6796

Ion Ratio Lower Upper

76 100

78 0.3 25.9 38.9#



#59

2-Hexanone

Concen: 20.946 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016203.D

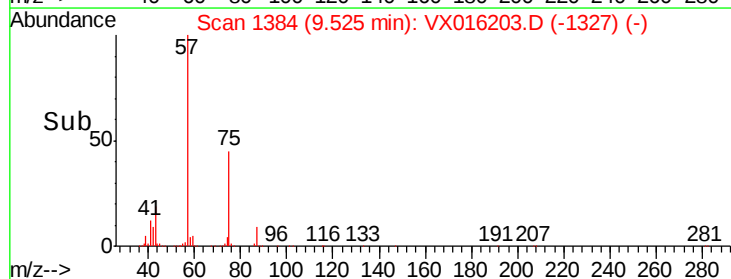
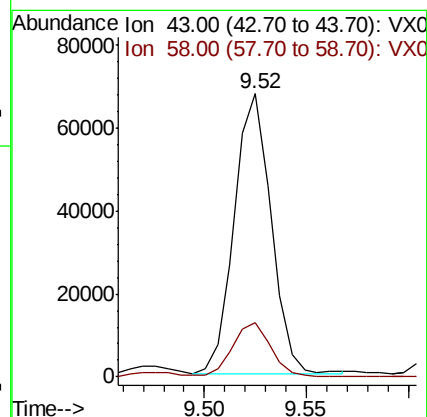
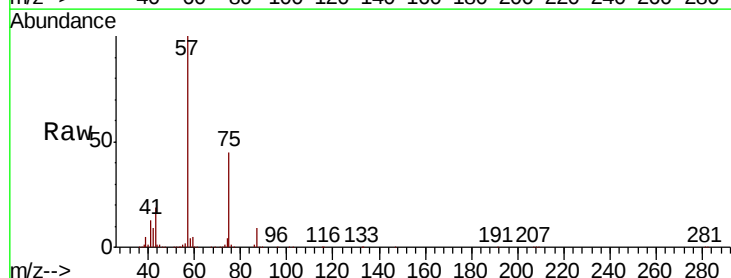
Acq: 14 May 2020 01:16

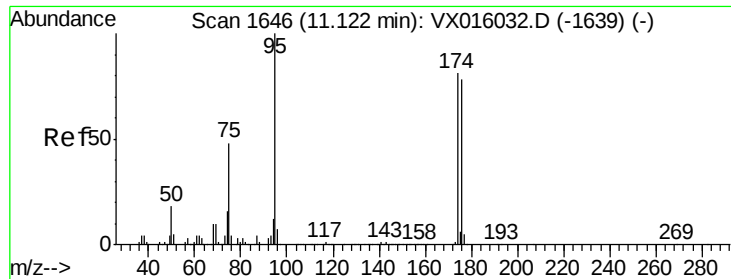
Tgt Ion: 43 Resp: 84809

Ion Ratio Lower Upper

43 100

58 20.4 28.6 85.9#





#62

4-Bromofluorobenzene

Concen: 52.951 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#04

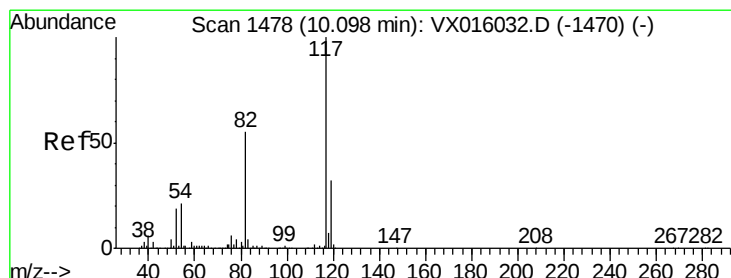
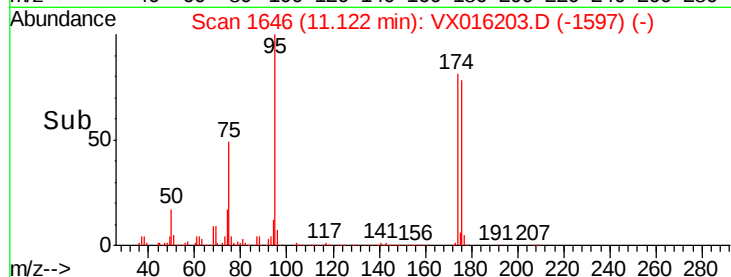
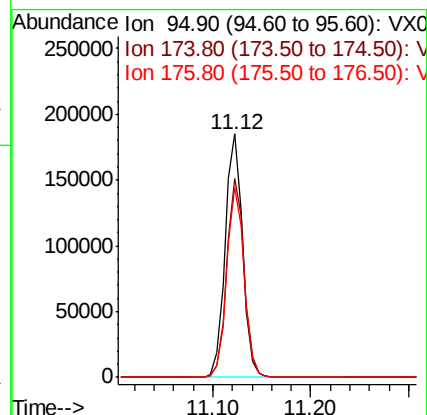
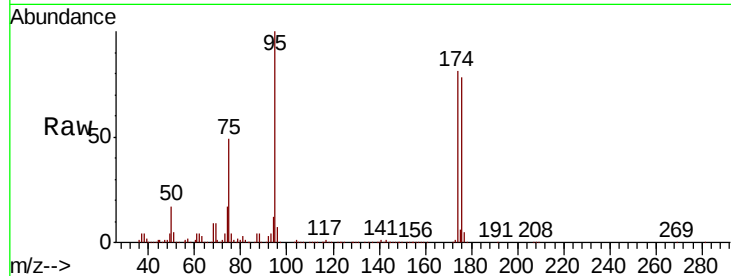
Tot Ion: 95 Resp: 227548

Ion Ratio Lower Upper

95 100

174 81.5 0.0 159.4

176 78.1 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: VX016203.D

Acq: 14 May 2020 01:16

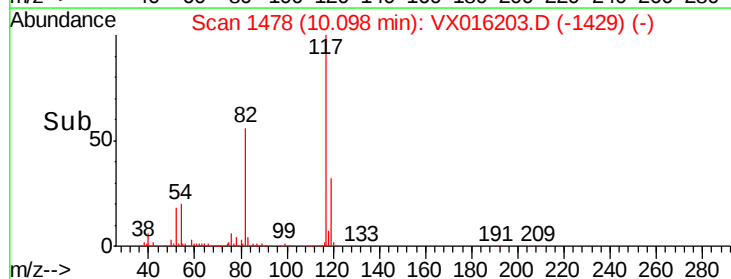
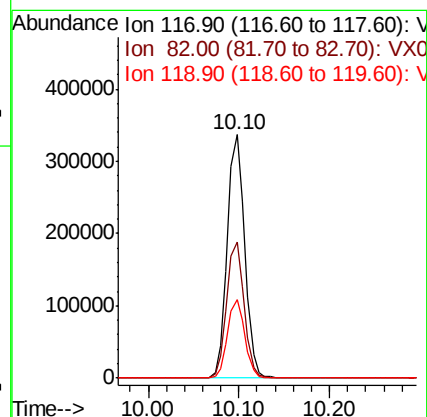
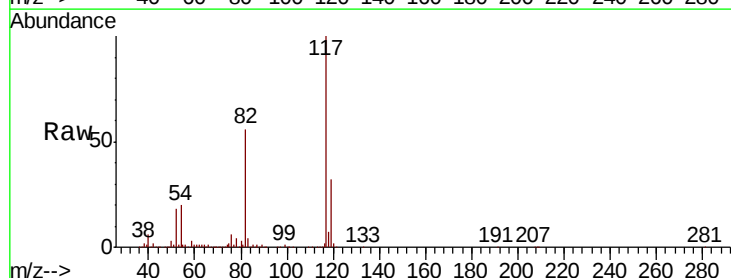
Tgt Ion: 117 Resp: 452968

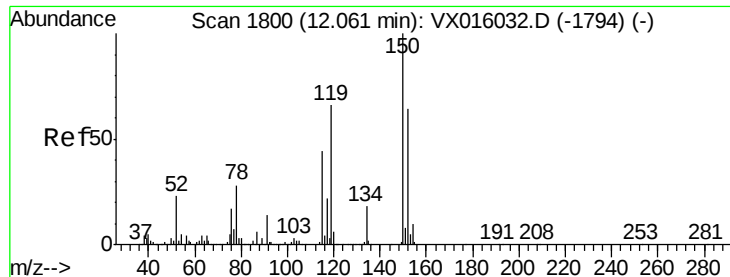
Ion Ratio Lower Upper

117 100

82 55.9 44.4 66.6

119 32.1 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: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#04

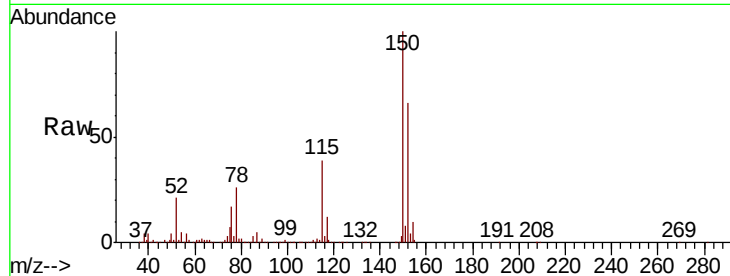
Tot Ion:152 Resp: 237574

Ion Ratio Lower Upper

152 100

115 57.1 41.3 124.1

150 152.2 0.0 352.2

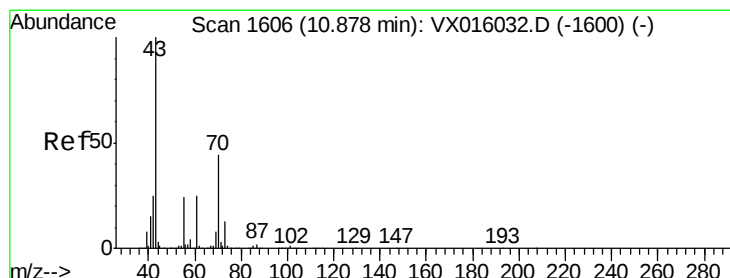
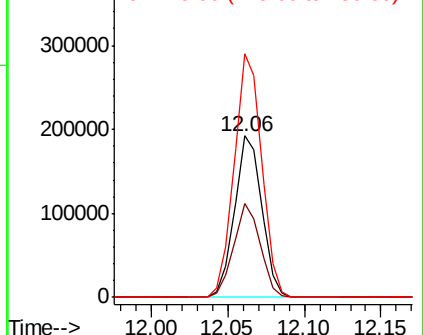
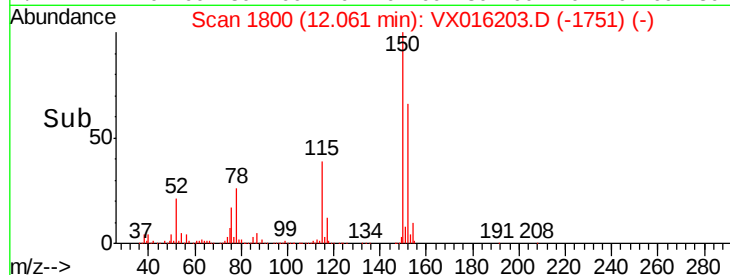


Abundance

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: 0.625 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Tgt Ion: 43 Resp: 5035

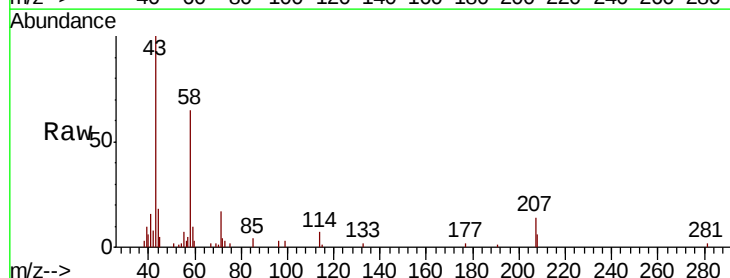
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 10.0 19.7 29.5#

61 0.0 20.9 31.3#



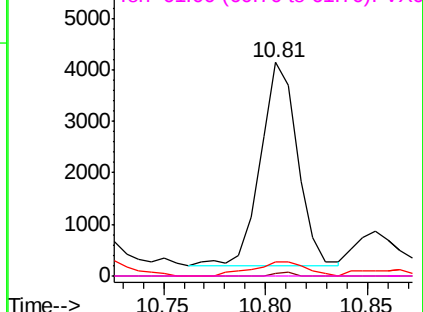
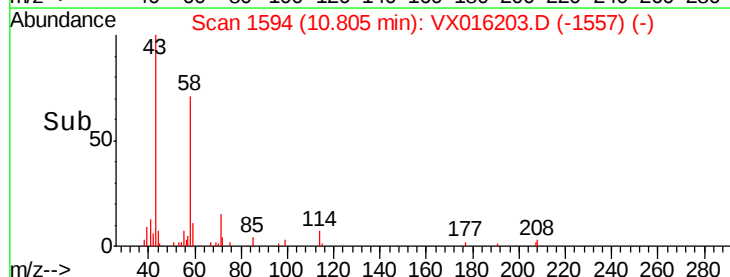
Abundance

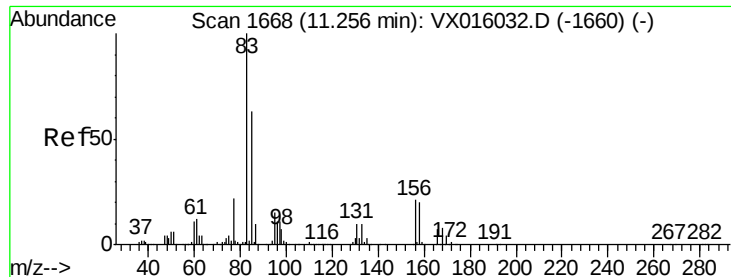
Ion 43.00 (42.70 to 43.70): VX0

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: 2.063 ug/l

RT: 11.31 min Scan# 1677

Delta R.T. 0.06 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#04

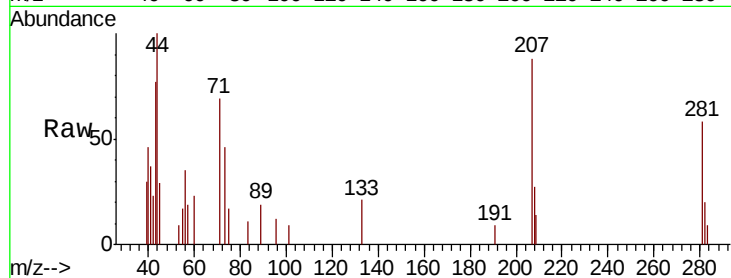
Tot Ion: 83 Resp: 45

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

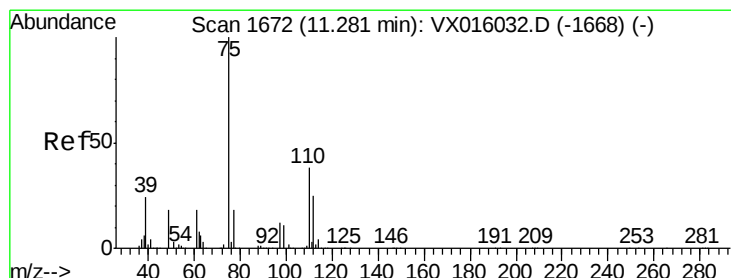
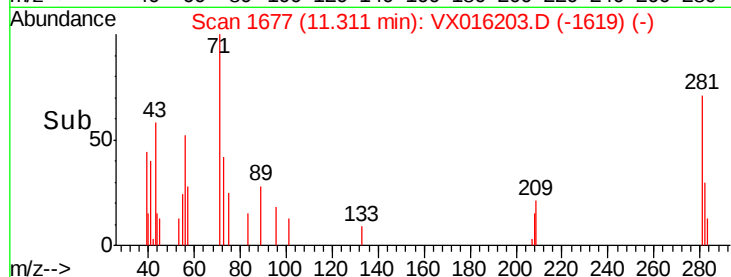
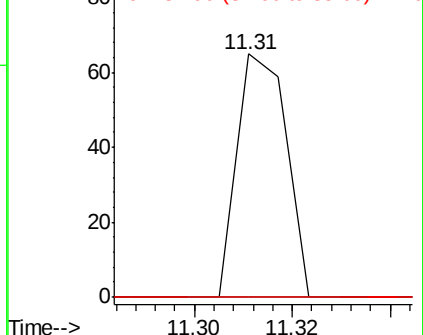
85 0.0 32.0 96.0#



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: 20.862 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016203.D

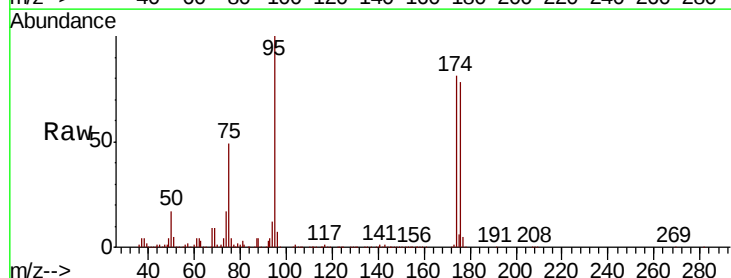
Acq: 14 May 2020 01:16

Tgt Ion: 75 Resp: 112470

Ion Ratio Lower Upper

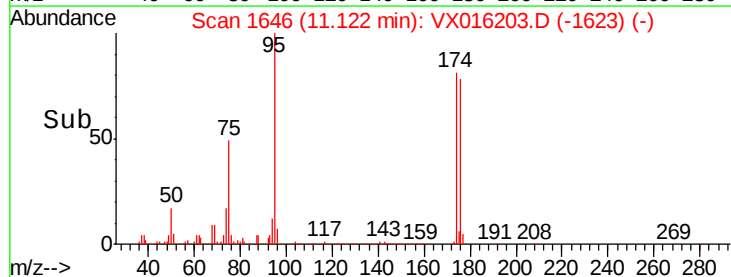
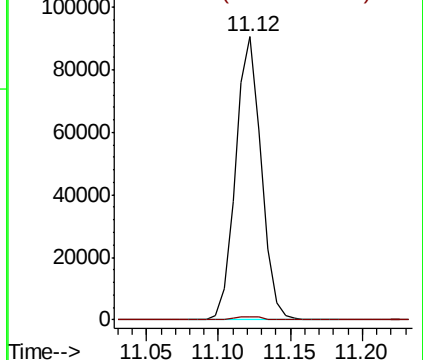
75 100

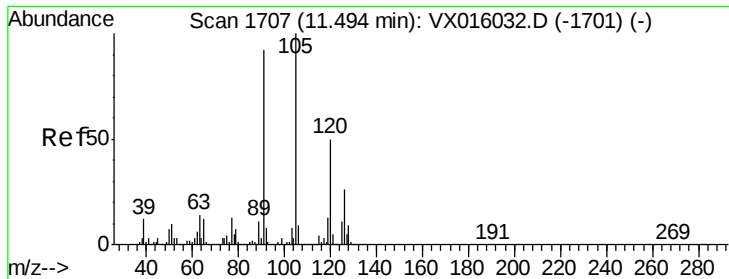
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.223 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

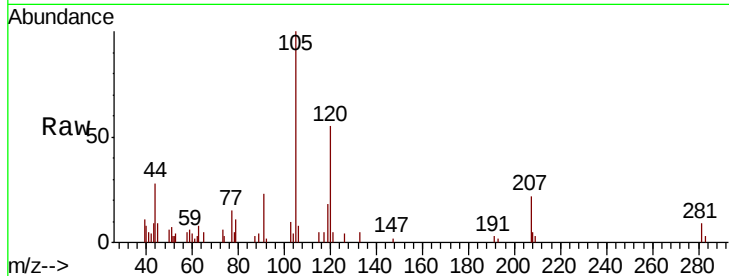
PB128838ZHE#04

Tot Ion:105 Resp: 3247

Ion Ratio Lower Upper

105 100

120 55.3 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

3000

2500

2000

1500

1000

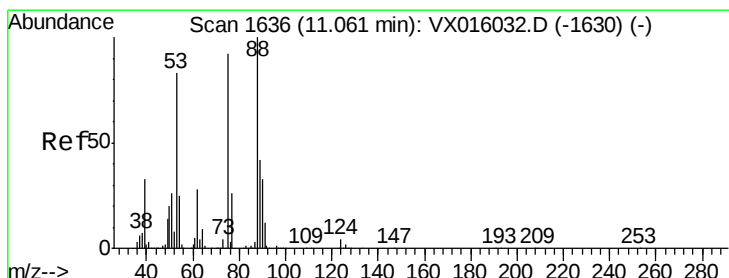
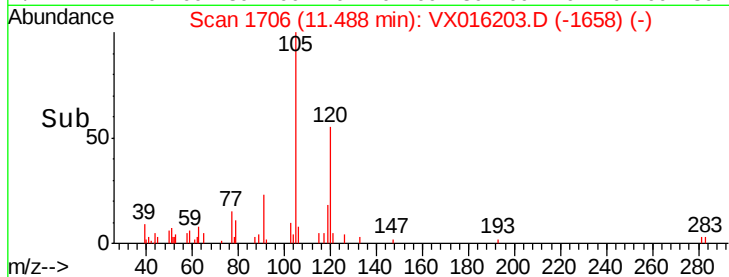
500

0

Time-->

11.45

11.50



#81

trans-1,4-Dichloro-2-butene

Concen: 49.716 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

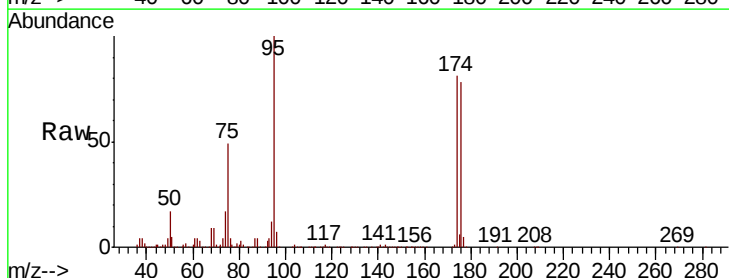
Tgt Ion: 75 Resp: 112470

Ion Ratio Lower Upper

75 100

53 0.1 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

120000

100000

80000

60000

40000

20000

0

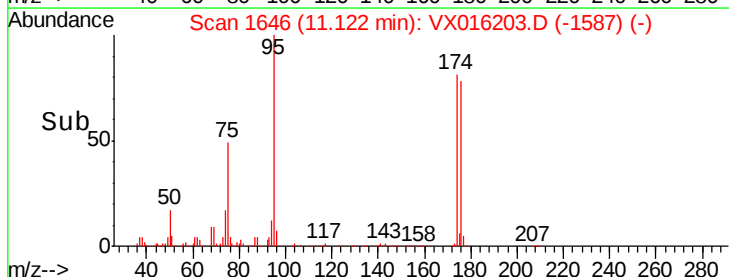
Time-->

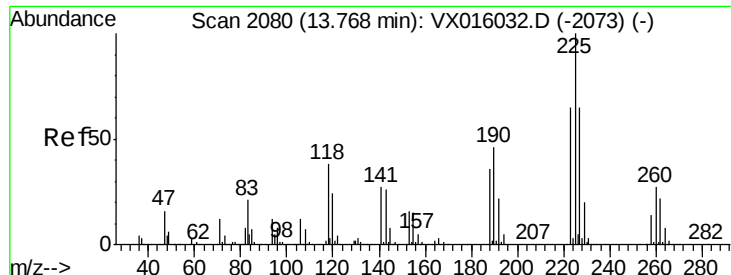
11.05

11.10

11.15

11.20





#94

Hexachlorobutadiene

Concen: 0.597 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016203.D

Acq: 14 May 2020 01:16

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#04

Tot Ion:225 Resp: 183

Ion Ratio Lower Upper

225 100

223 51.9 32.3 96.9

227 42.6 31.8 95.4

