

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016201.D
 Acq On : 14 May 2020 00:31
 Operator : JC/SP
 Sample : PB128838ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128838ZHE#02

Quant Time: May 14 04:45:35 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	275549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	459499	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	445111	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231136	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	168464	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	
35) Dibromofluoromethane	5.47	113	138517	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	8.70	98	571731	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
62) 4-Bromofluorobenzene	11.12	95	227793	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	426	0.234	ug/l #	47
11) Tert butyl alcohol	3.00	59	2377	2.592	ug/l #	92
13) Acrolein	2.28	56	460	0.802	ug/l #	59
16) Acetone	2.42	43	15211	9.402	ug/l	96
18) Methyl Acetate	2.75	43	3352	0.843	ug/l	95
20) Methylene Chloride	2.84	84	5154	1.545	ug/l	90
25) 2-Butanone	4.64	43	9443	3.622	ug/l	94
29) Tetrahydrofuran	5.10	42	1163	0.673	ug/l #	47
37) Ethyl Acetate	4.64	43	8953	1.708	ug/l #	69
38) Carbon Tetrachloride	5.63	117	26465	5.756	ug/l #	16
43) Isopropyl Acetate	6.42	43	79144	9.462	ug/l	99
48) Methyl methacrylate	7.85	41	120128	30.309	ug/l #	41
49) 1,4-Dioxane	7.85	88	278	2.925	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	73115	14.284	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	35710	6.187	ug/l #	56
57) 1,3-Dichloropropane	9.52	76	6265	1.106	ug/l #	44
59) 2-Hexanone	9.52	43	76665	19.072	ug/l #	51
74) N-amyl acetate	10.80	43	4510	0.575	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.24	83	22	2.056	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	111257	21.212	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	3166	0.223	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	111257	50.550	ug/l #	13
94) Hexachlorobutadiene	13.77	225	484	0.724	ug/l	92

(#) = 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: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

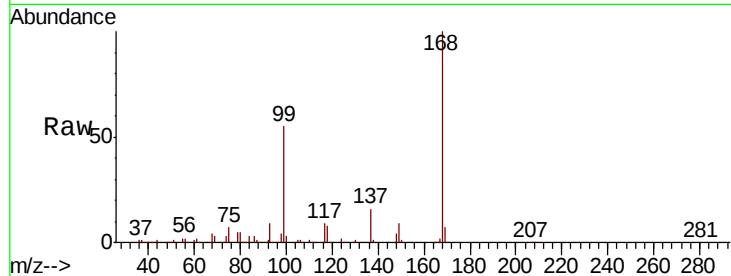
PB128838ZHE#02

Tot Ion:168 Resp: 275549

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

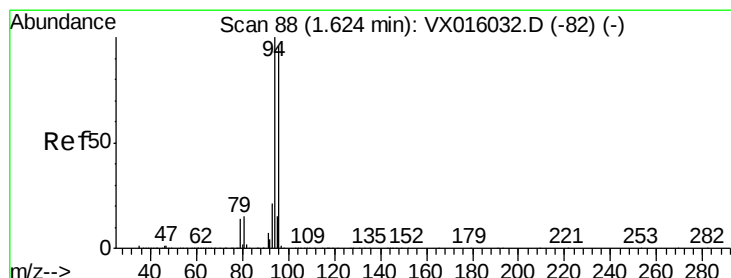
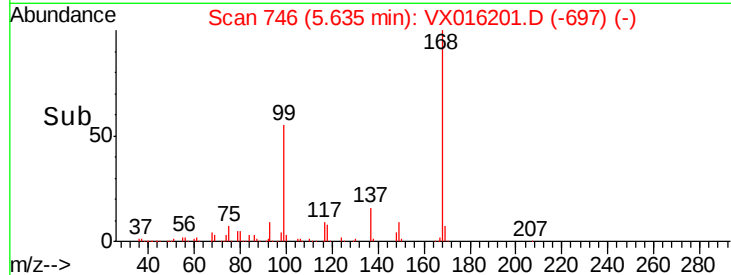
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.234 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX016201.D

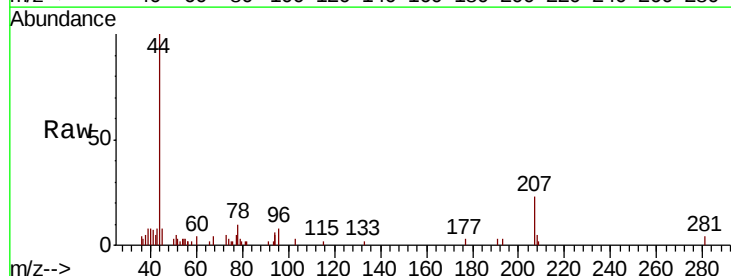
Acq: 14 May 2020 00:31

Tgt Ion: 94 Resp: 426

Ion Ratio Lower Upper

94 100

96 44.2 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

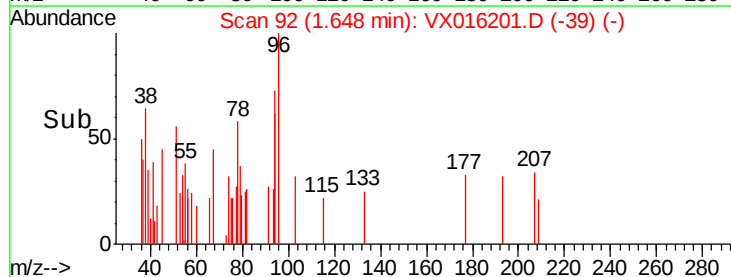
300

200

100

0

Time-->

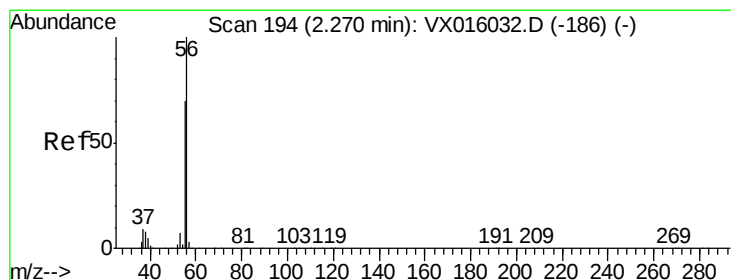
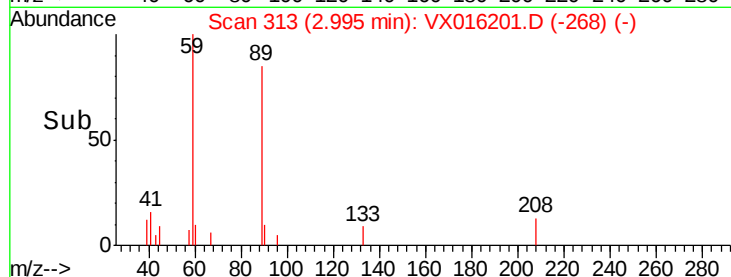
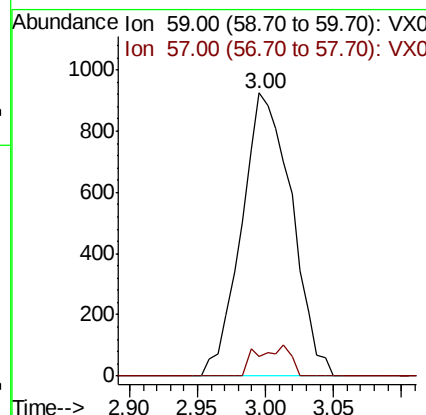
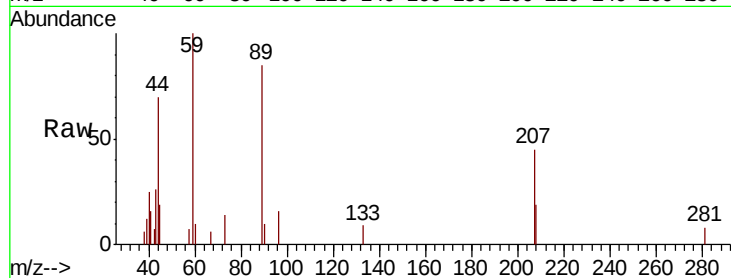




#11
Tert butyl alcohol
Concen: 2.592 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX016201.D
Acq: 14 May 2020 00:31

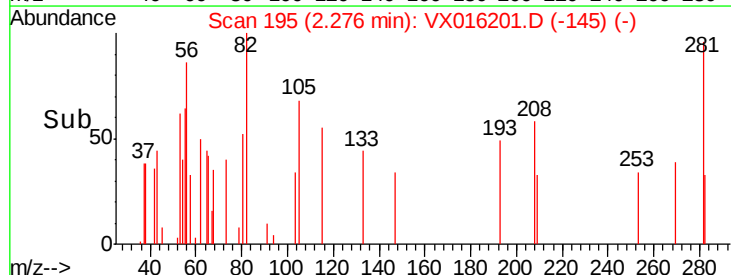
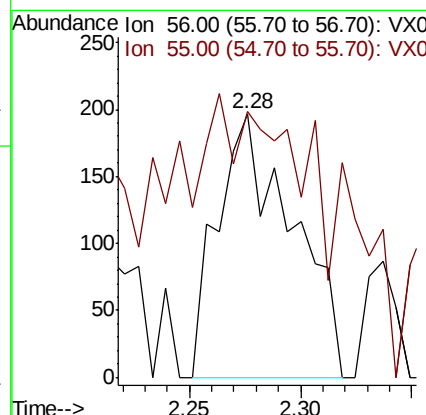
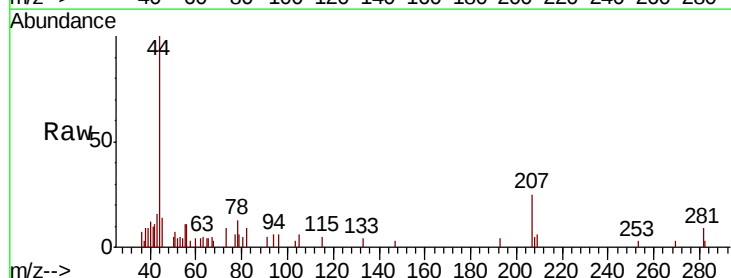
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#02

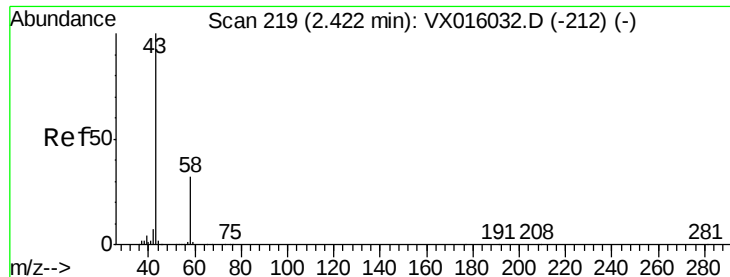
Tot Ion: 59 Resp: 2377
Ion Ratio Lower Upper
59 100
57 7.2 8.2 12.4#



#13
Acrolein
Concen: 0.802 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016201.D
Acq: 14 May 2020 00:31

Tgt Ion: 56 Resp: 460
Ion Ratio Lower Upper
56 100
55 37.0 56.5 84.7#





#16

Acetone

Concen: 9.402 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

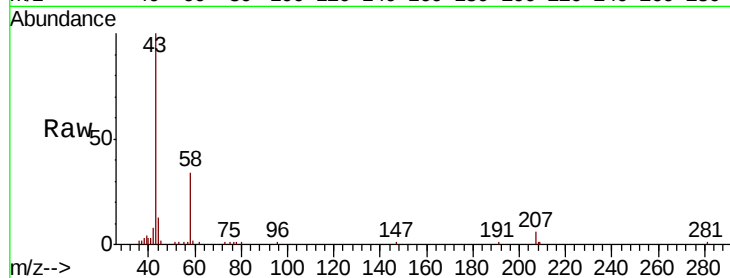
PB128838ZHE#02

Tot Ion: 43 Resp: 15211

Ion Ratio Lower Upper

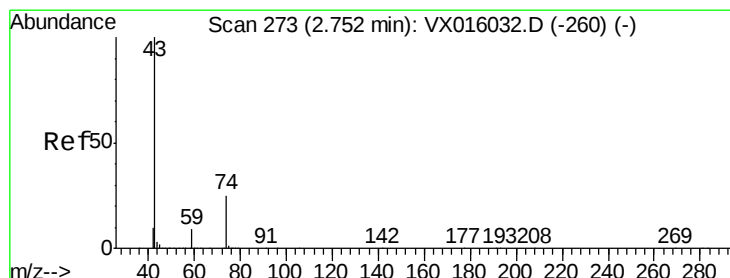
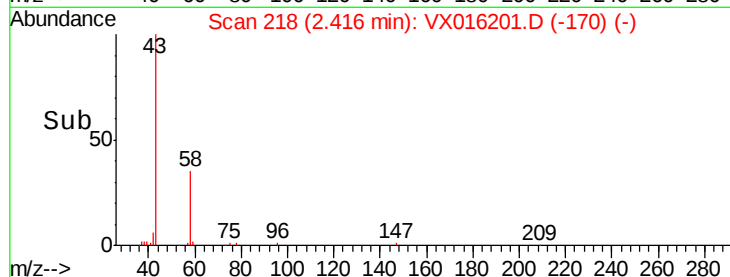
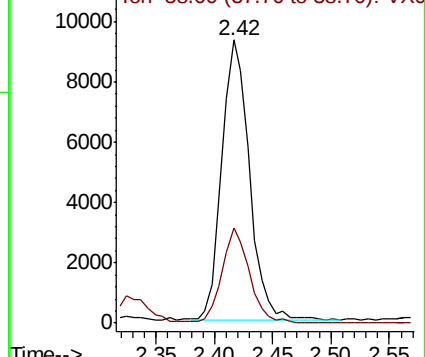
43 100

58 33.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.843 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX016201.D

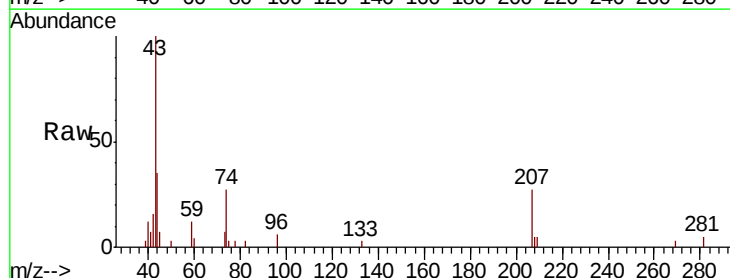
Acq: 14 May 2020 00:31

Tgt Ion: 43 Resp: 3352

Ion Ratio Lower Upper

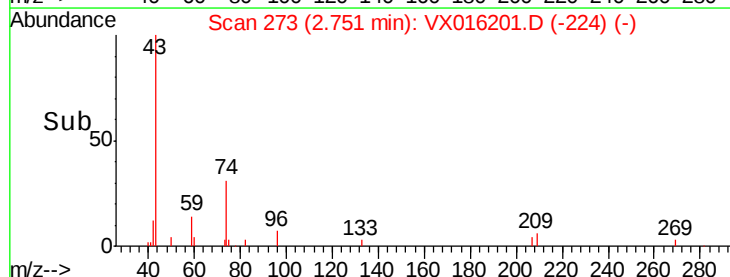
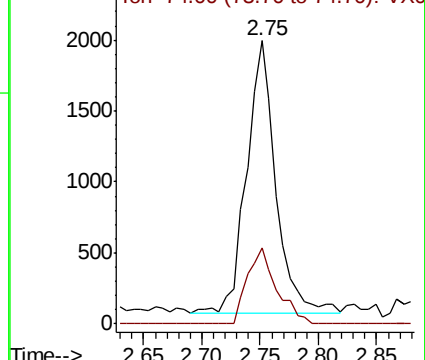
43 100

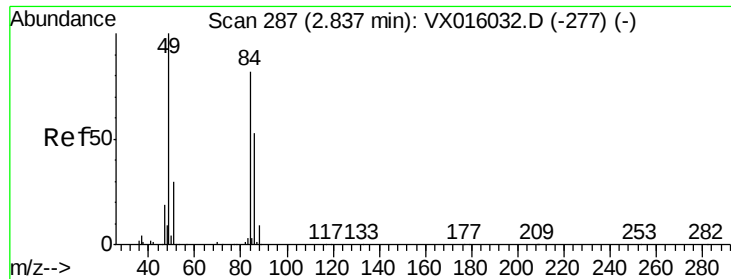
74 27.9 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

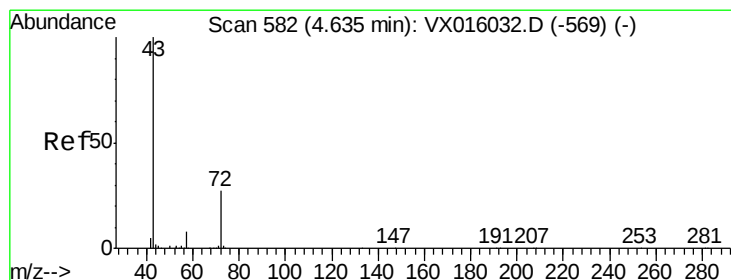
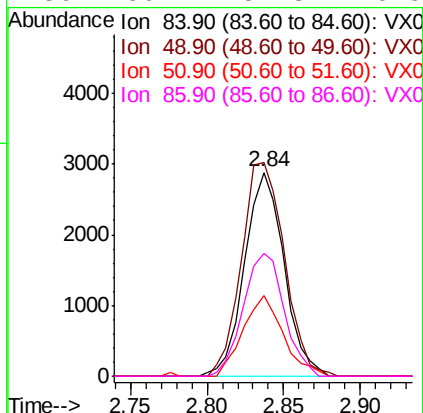
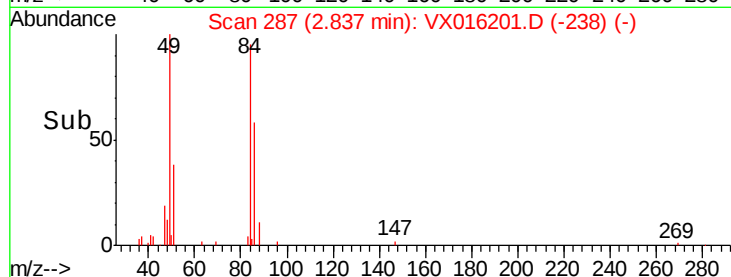
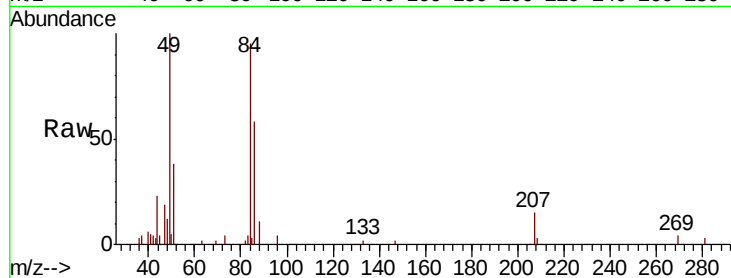




#20
Methylene Chloride
Concen: 1.545 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016201.D
Acq: 14 May 2020 00:31

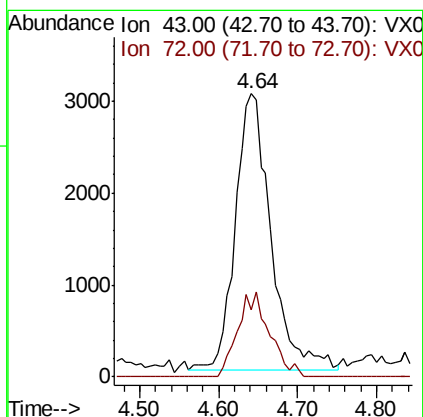
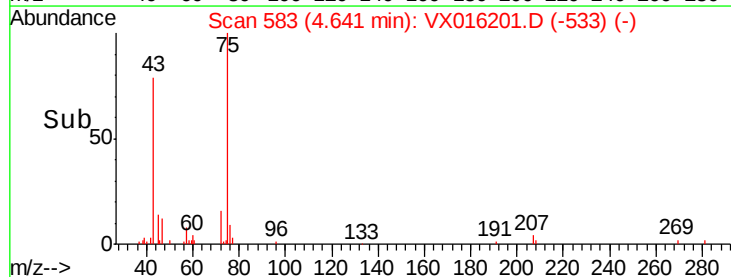
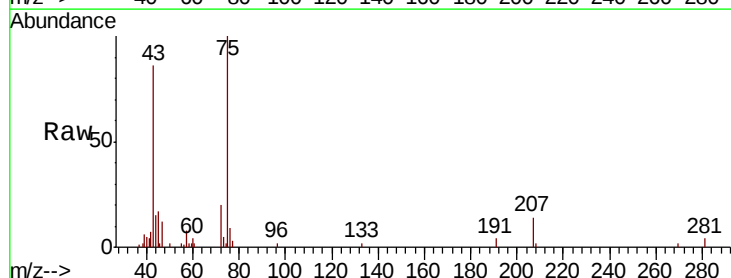
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#02

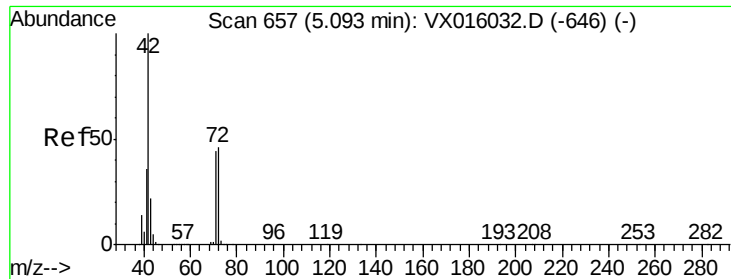
Tot Ion:	84	Resp:	5154
Ion	Ratio	Lower	Upper
84	100		
49	104.9	97.3	145.9
51	39.8	29.3	43.9
86	60.4	51.3	76.9



#25
2-Butanone
Concen: 3.622 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016201.D
Acq: 14 May 2020 00:31

Tgt Ion:	43	Resp:	9443
Ion	Ratio	Lower	Upper
43	100		
72	24.2	21.8	32.8





#29

Tetrahydrofuran

Concen: 0.673 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

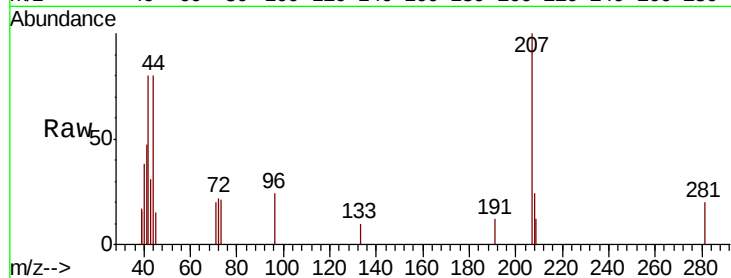
Tot Ion: 42 Resp: 1163

Ion Ratio Lower Upper

42 100

72 19.8 37.1 55.7#

71 0.0 34.5 51.7#

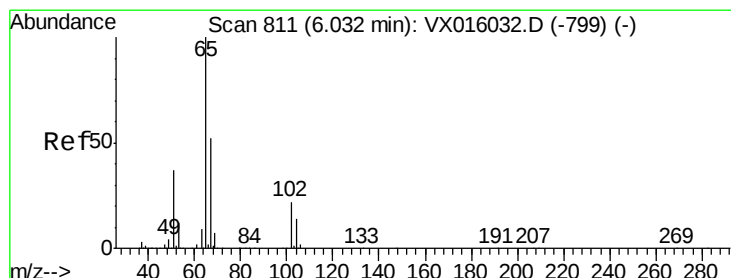
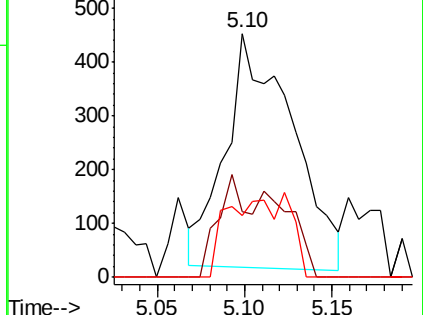
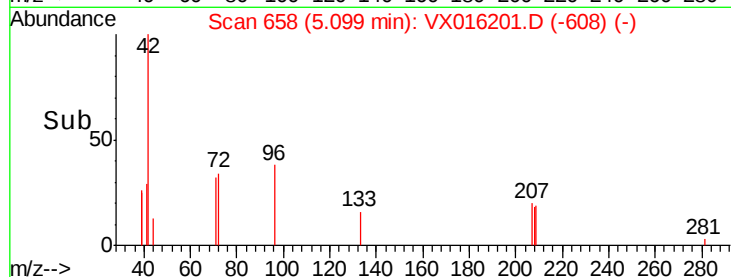


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.10



#33

1,2-Dichloroethane-d4

Concen: 46.461 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016201.D

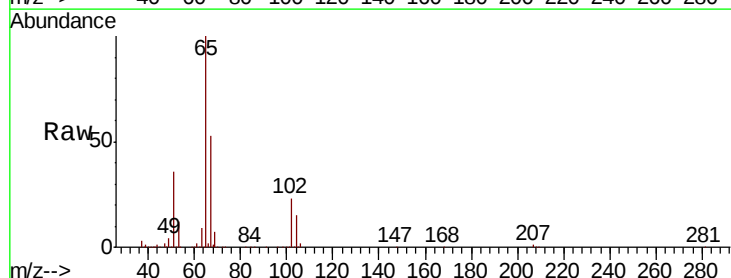
Acq: 14 May 2020 00:31

Tgt Ion: 65 Resp: 168464

Ion Ratio Lower Upper

65 100

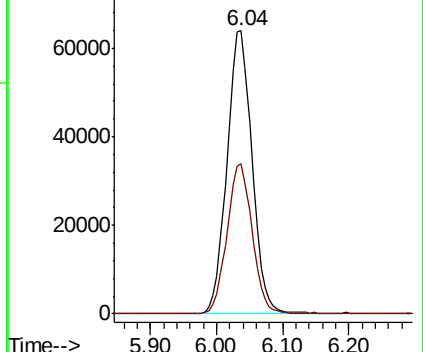
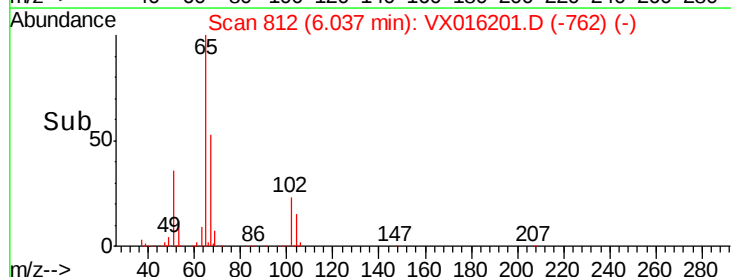
67 53.1 0.0 104.8

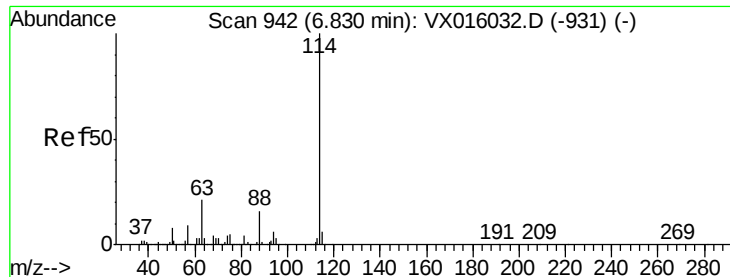


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

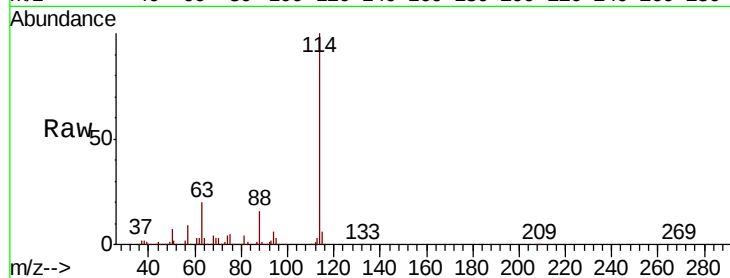
Tot Ion:114 Resp: 459499

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

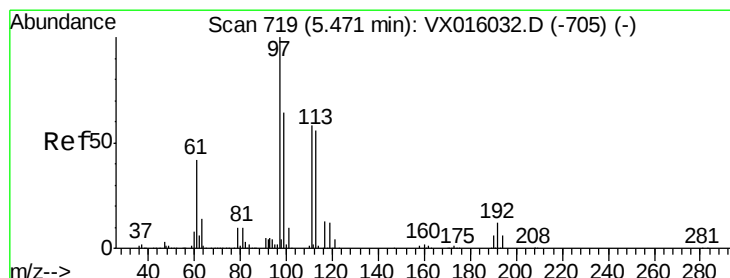
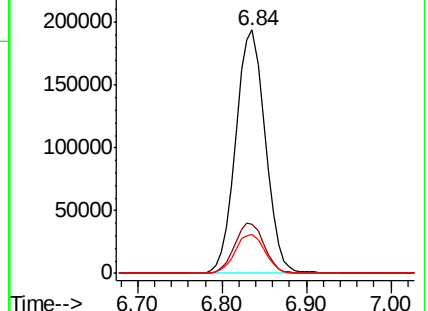
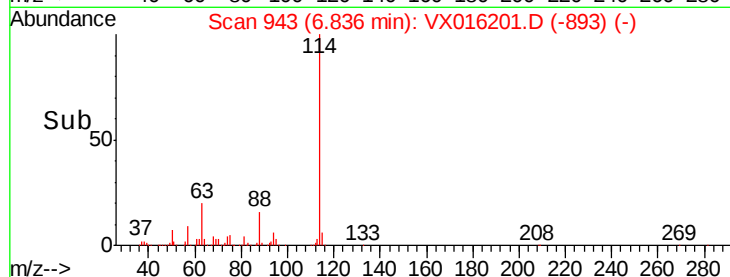
88 16.2 0.0 31.4



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: 47.582 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

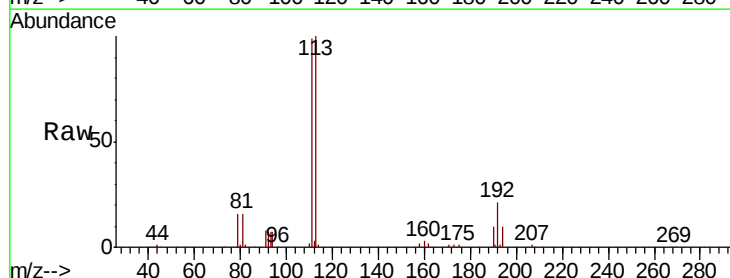
Tgt Ion:113 Resp: 138517

Ion Ratio Lower Upper

113 100

111 102.0 81.6 122.4

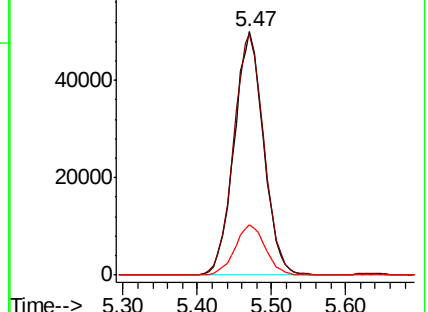
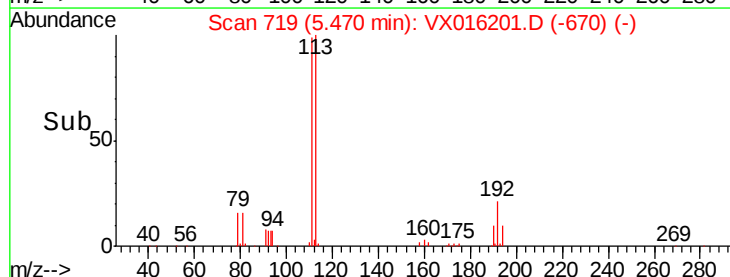
192 21.3 17.0 25.4

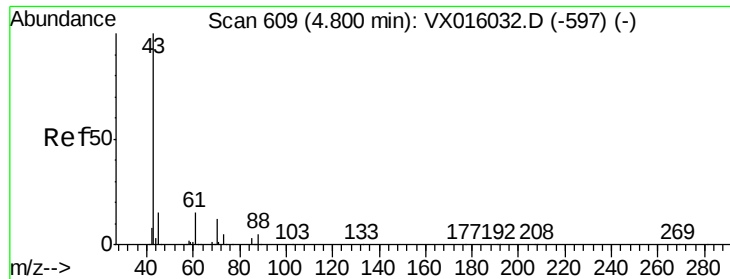


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

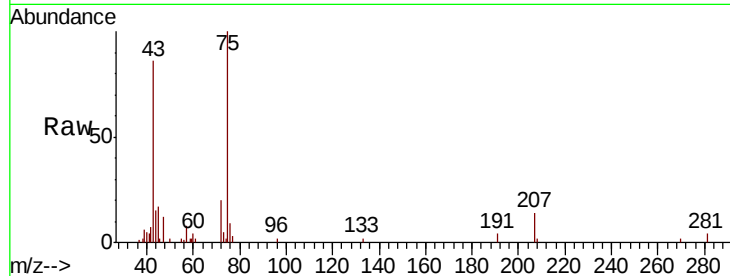




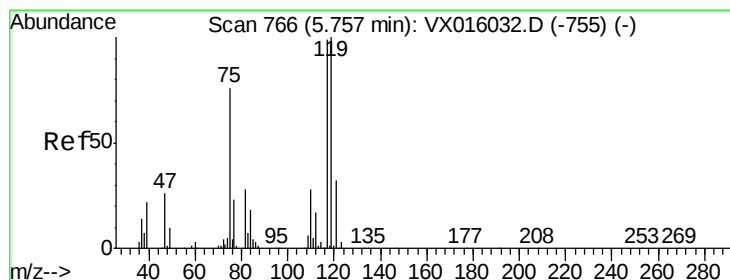
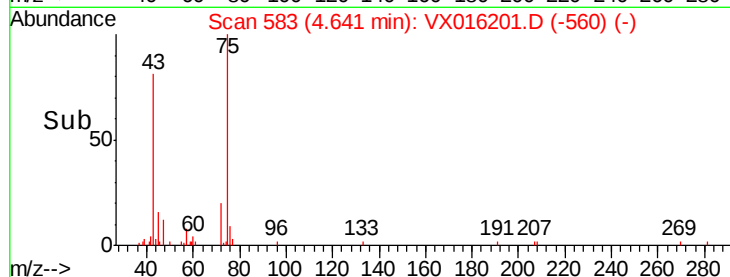
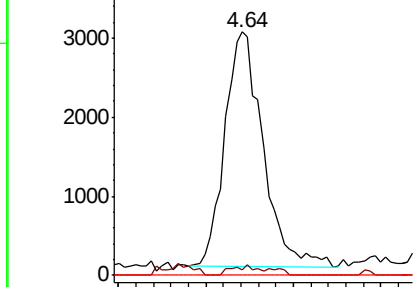
#37
Ethyl Acetate
Concen: 1.708 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.16 min
Lab File: VX016201.D
Acq: 14 May 2020 00:31

Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#02

Tot Ion: 43 Resp: 8953
Ion Ratio Lower Upper
43 100
61 1.4 11.7 17.5#
70 0.0 9.3 13.9#

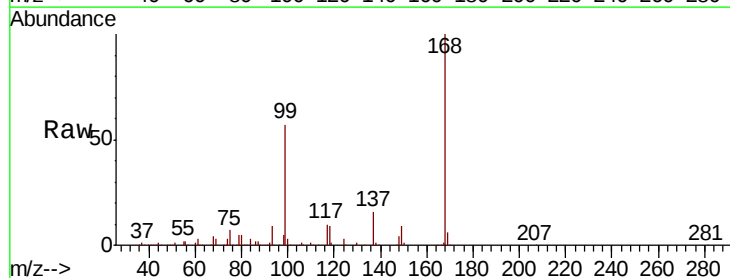


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

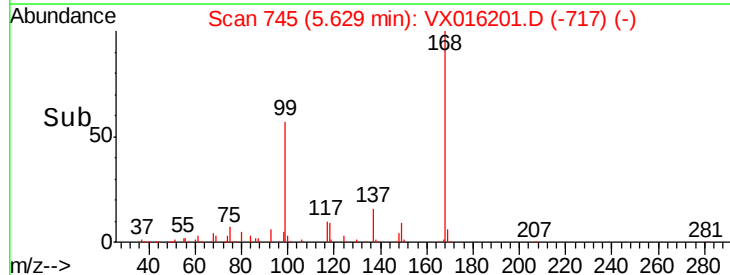
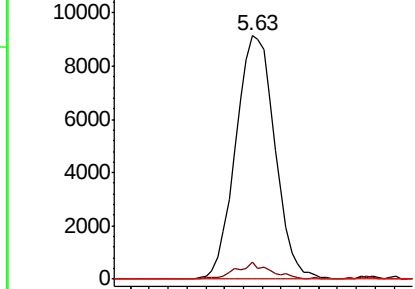


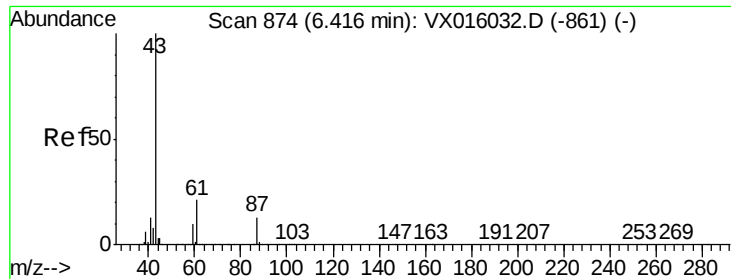
#38
Carbon Tetrachloride
Concen: 5.756 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016201.D
Acq: 14 May 2020 00:31

Tgt Ion: 117 Resp: 26465
Ion Ratio Lower Upper
117 100
119 7.1 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: 9.462 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

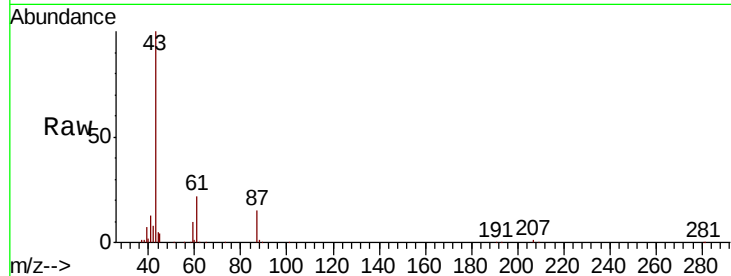
Tot Ion: 43 Resp: 79144

Ion Ratio Lower Upper

43 100

61 21.8 17.0 25.4

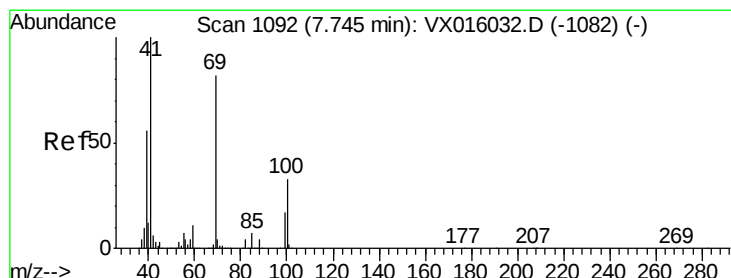
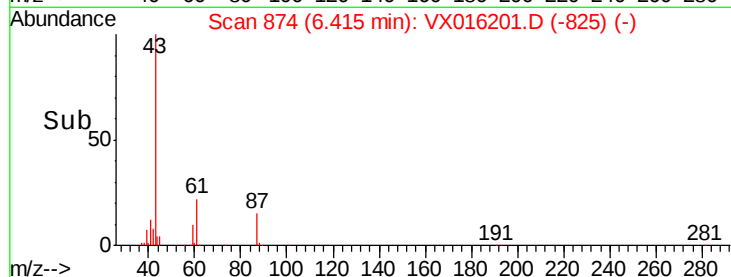
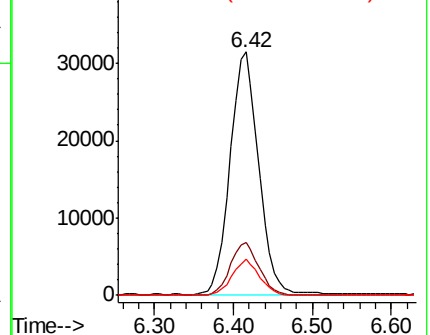
87 14.1 11.0 16.6



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

Methyl methacrylate

Concen: 30.309 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.11 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

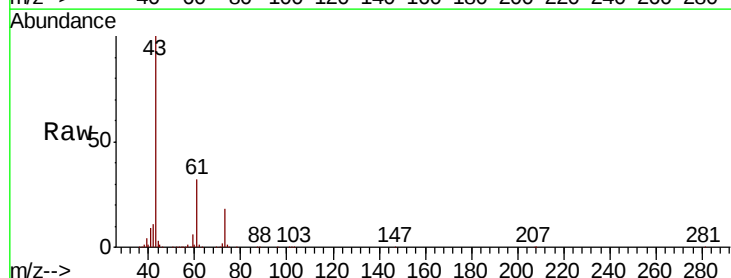
Tgt Ion: 41 Resp: 120128

Ion Ratio Lower Upper

41 100

69 0.2 67.8 101.6#

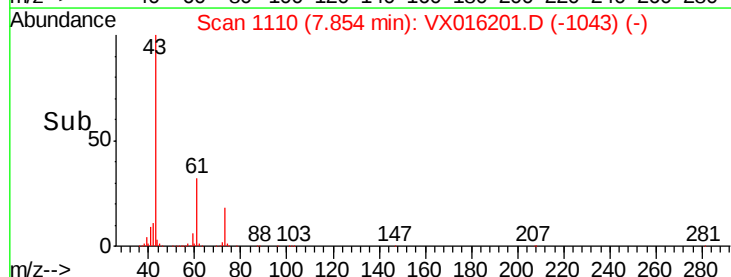
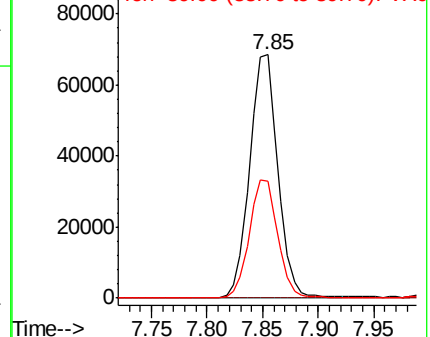
39 49.3 44.6 67.0

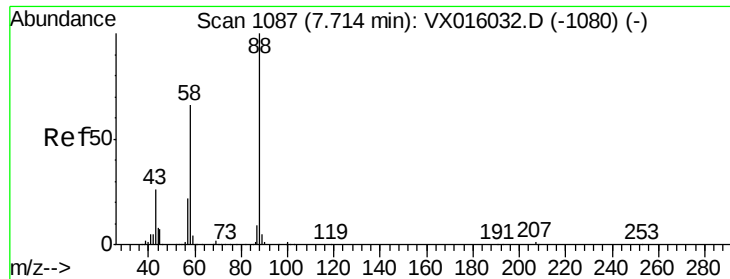


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.925 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.14 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

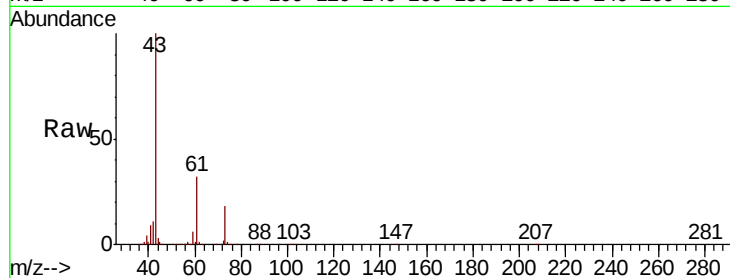
Tot Ion: 88 Resp: 278

Ion Ratio Lower Upper

88 100

43 476518.0 25.3 37.9#

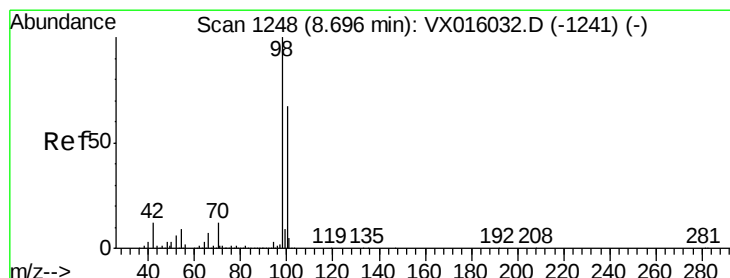
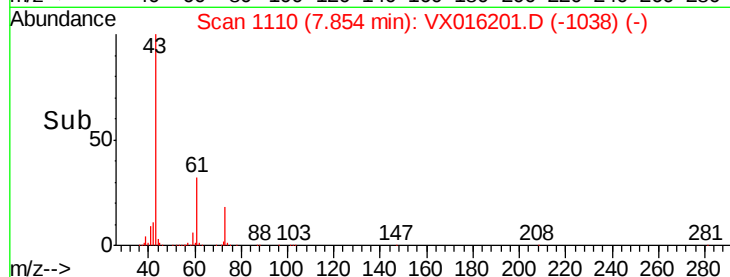
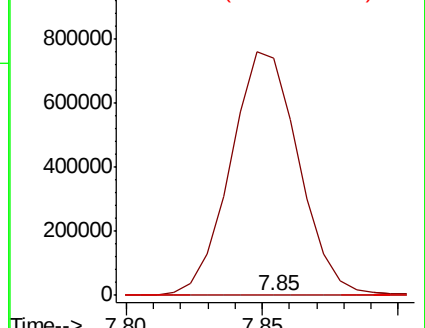
58 2061.5 55.9 83.9#



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: 50.971 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016201.D

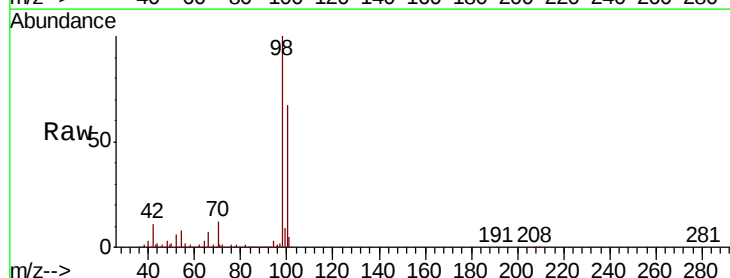
Acq: 14 May 2020 00:31

Tgt Ion: 98 Resp: 571731

Ion Ratio Lower Upper

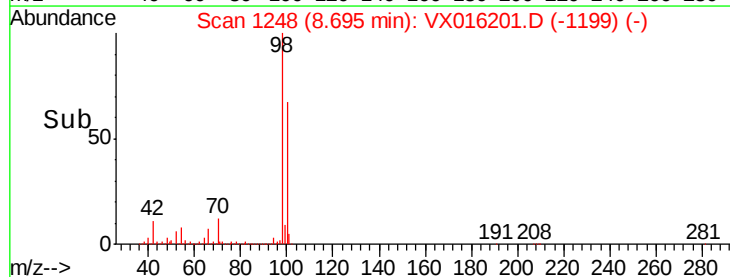
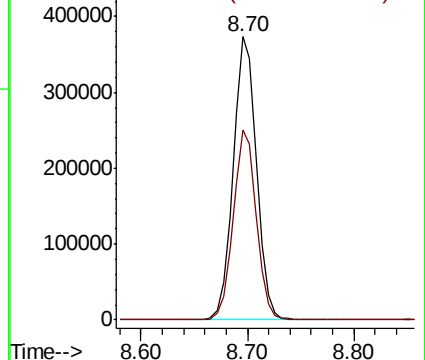
98 100

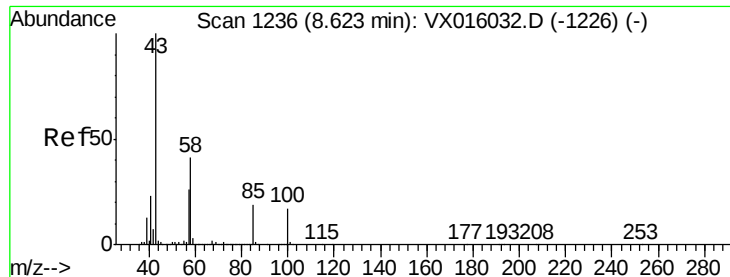
100 66.5 53.7 80.5



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: 14.284 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

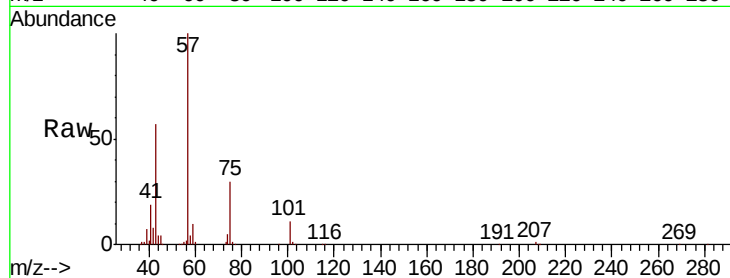
PB128838ZHE#02

Tot Ion: 43 Resp: 73115

Ion Ratio Lower Upper

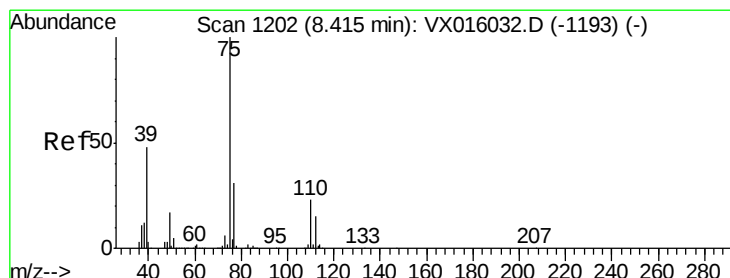
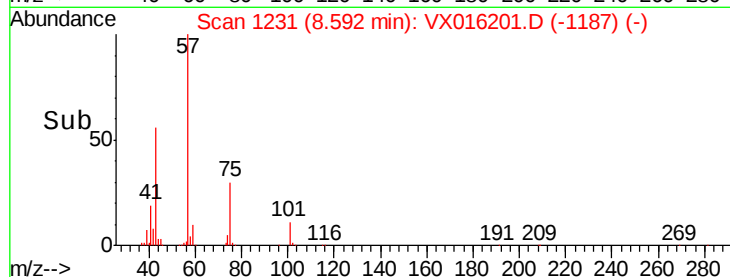
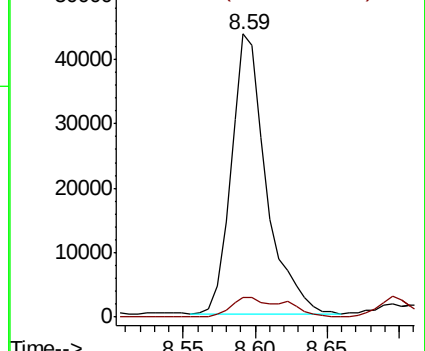
43 100

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: 6.187 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

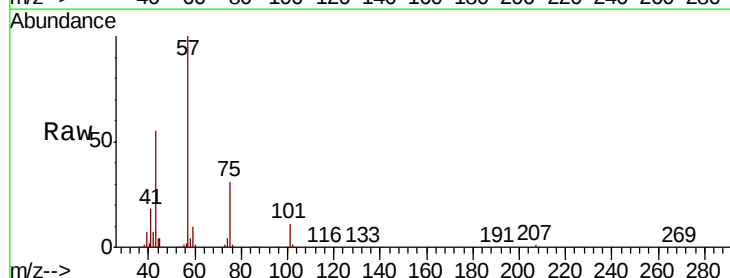
Tgt Ion: 75 Resp: 35710

Ion Ratio Lower Upper

75 100

77 0.6 24.7 37.1#

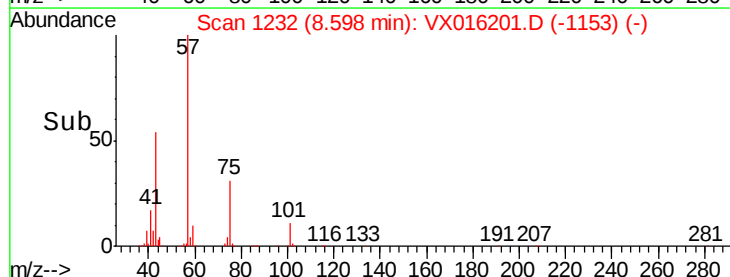
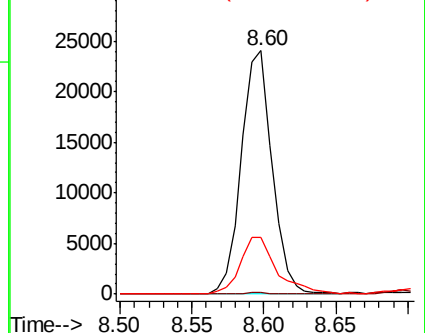
39 23.3 38.7 58.1#

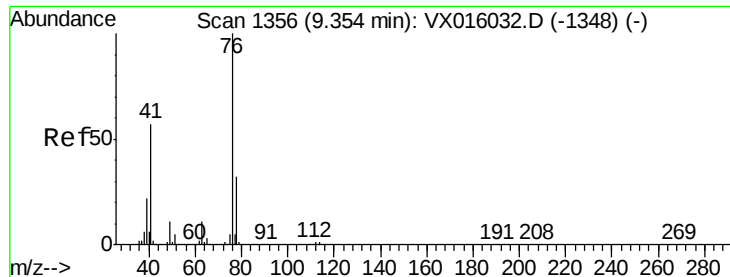


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.106 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

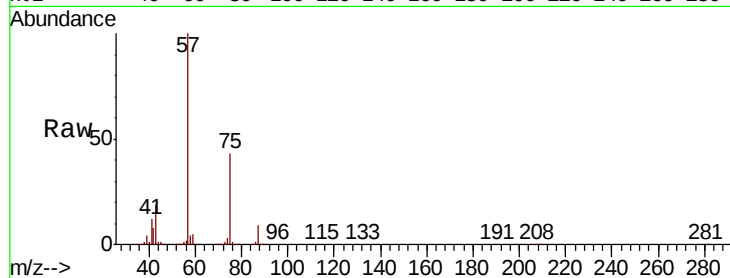
PB128838ZHE#02

Tot Ion: 76 Resp: 6265

Ion Ratio Lower Upper

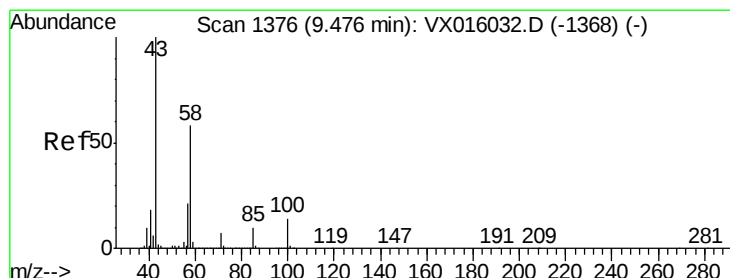
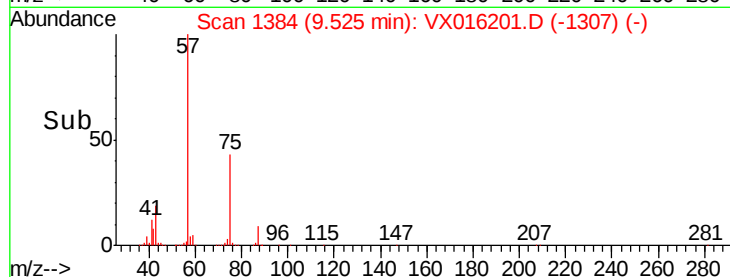
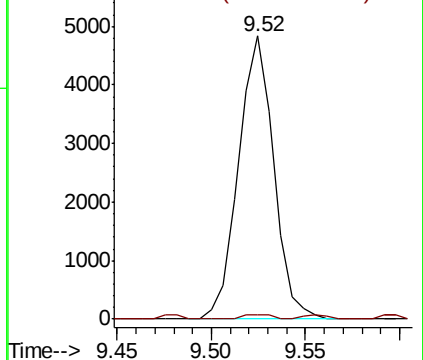
76 100

78 1.2 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 19.072 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016201.D

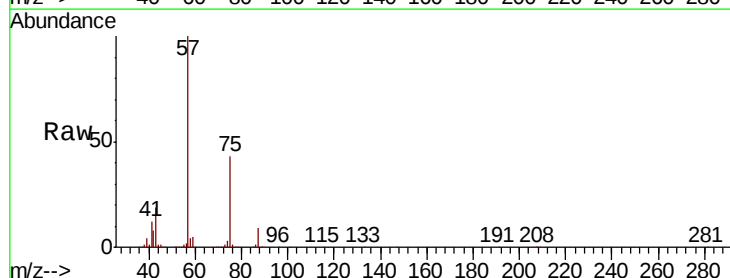
Acq: 14 May 2020 00:31

Tgt Ion: 43 Resp: 76665

Ion Ratio Lower Upper

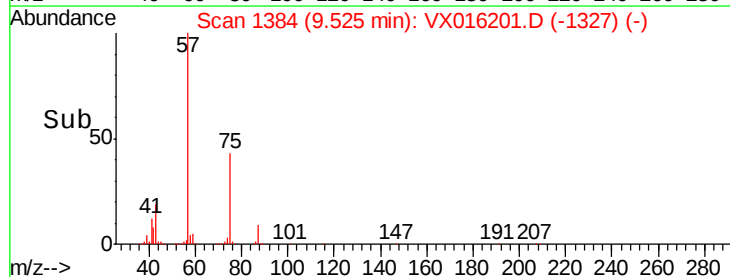
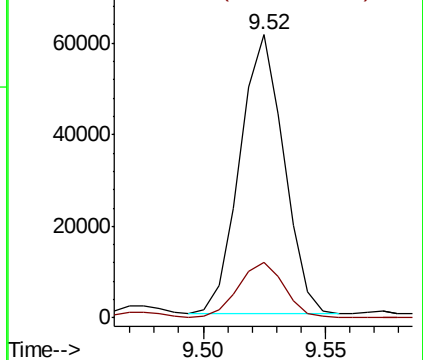
43 100

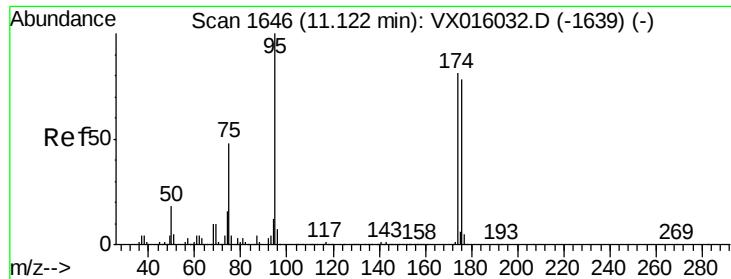
58 21.1 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.393 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

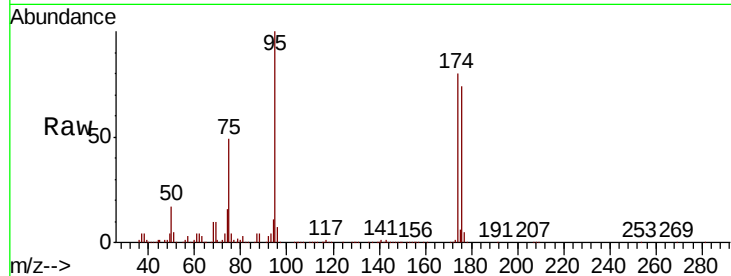
Tot Ion: 95 Resp: 227793

Ion Ratio Lower Upper

95 100

174 81.4 0.0 159.4

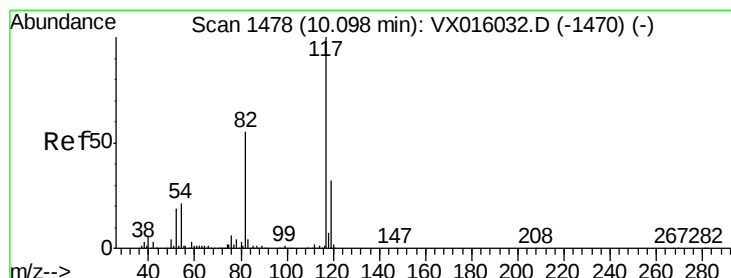
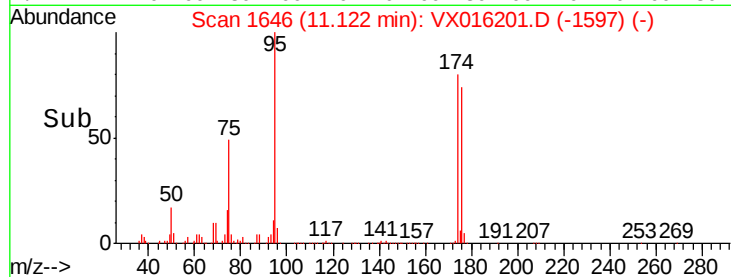
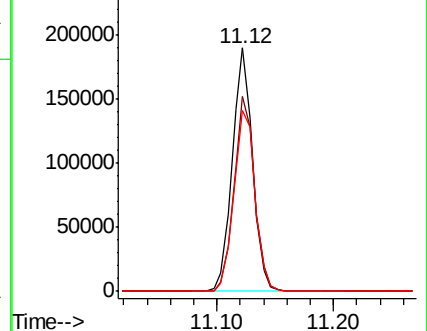
176 78.3 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016201.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016201.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016201.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

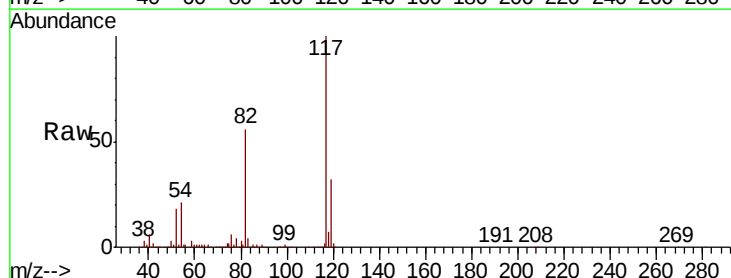
Tgt Ion: 117 Resp: 445111

Ion Ratio Lower Upper

117 100

82 56.3 44.4 66.6

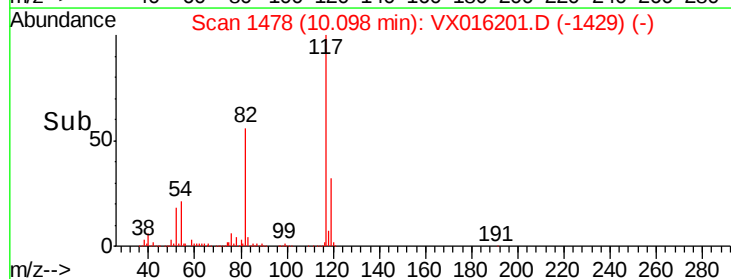
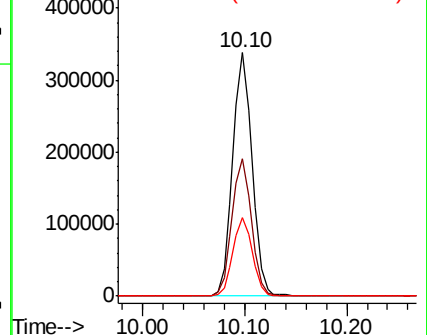
119 32.1 25.5 38.3

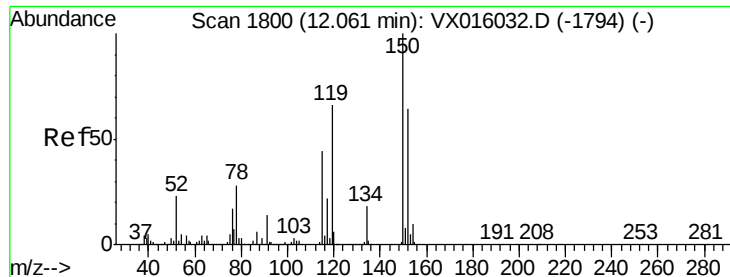


Abundance Ion 116.90 (116.60 to 117.60): VX016201.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016201.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016201.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

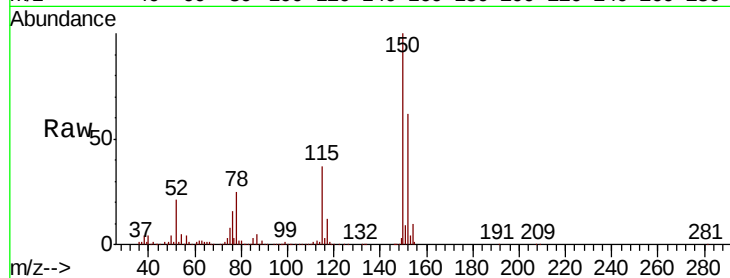
Tot Ion:152 Resp: 231136

Ion Ratio Lower Upper

152 100

115 58.9 41.3 124.1

150 159.4 0.0 352.2

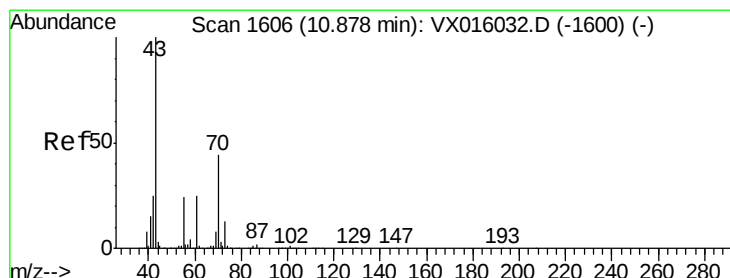
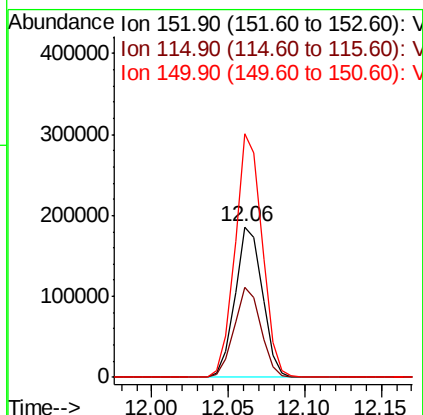
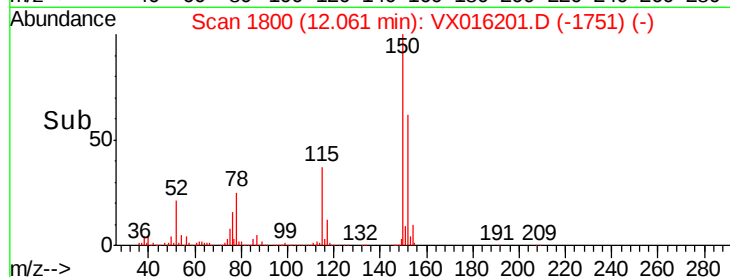


Abundance

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: 0.575 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Tgt Ion: 43 Resp: 4510

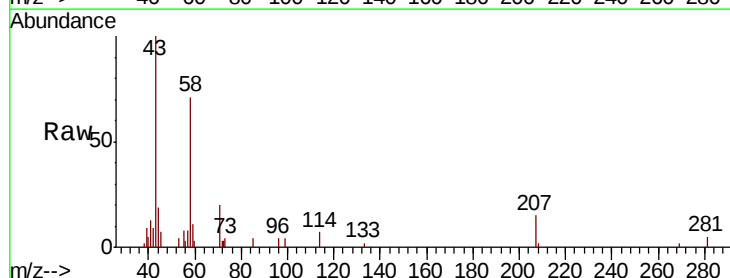
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 9.9 19.7 29.5#

61 0.0 20.9 31.3#



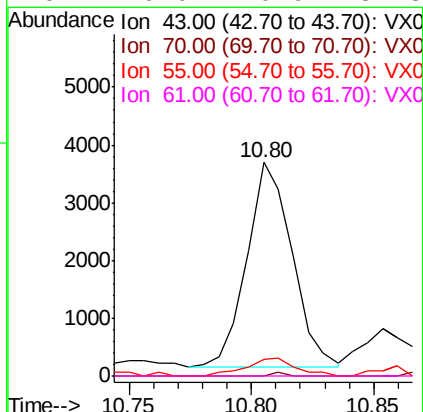
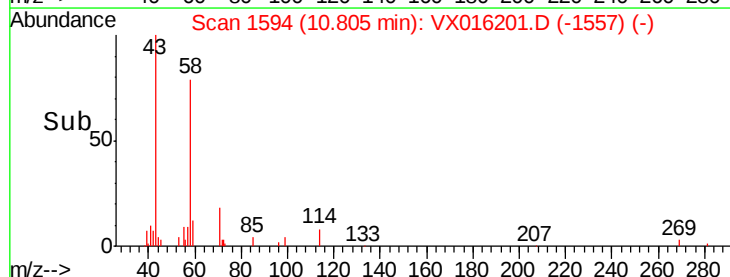
Abundance

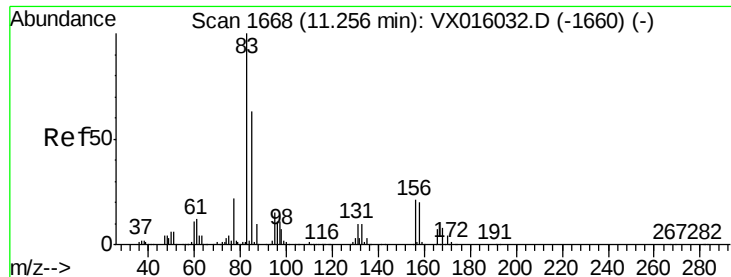
Ion 43.00 (42.70 to 43.70): VX0

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: 2.056 ug/l

RT: 11.24 min Scan# 1666

Delta R.T. -0.01 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#02

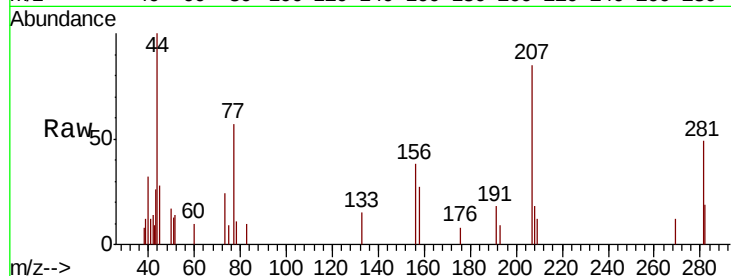
Tot Ion: 83 Resp: 22

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

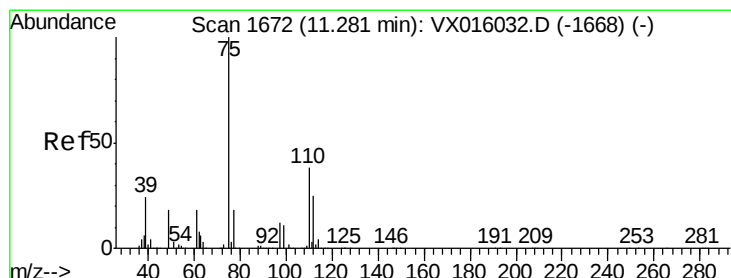
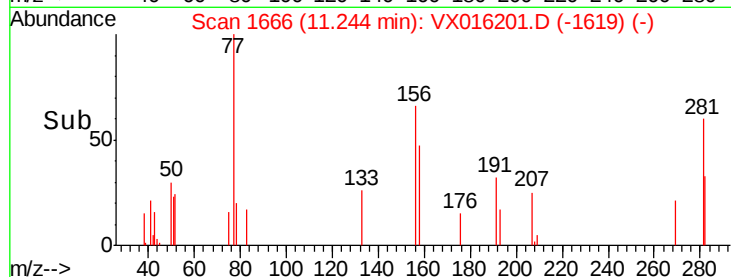
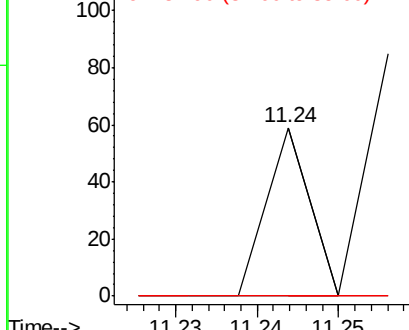
85 0.0 32.0 96.0#



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: 21.212 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016201.D

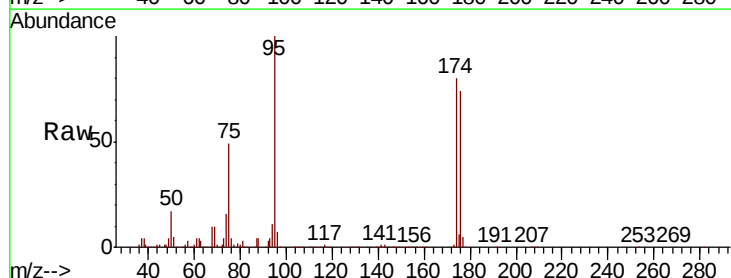
Acq: 14 May 2020 00:31

Tgt Ion: 75 Resp: 111257

Ion Ratio Lower Upper

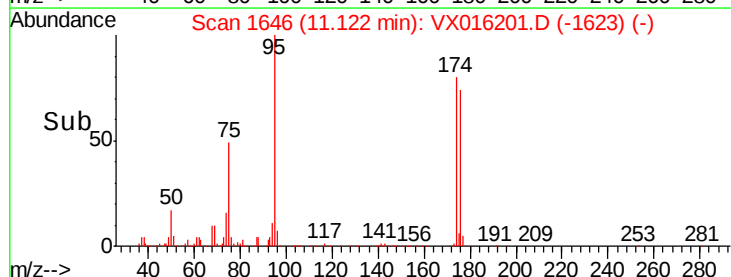
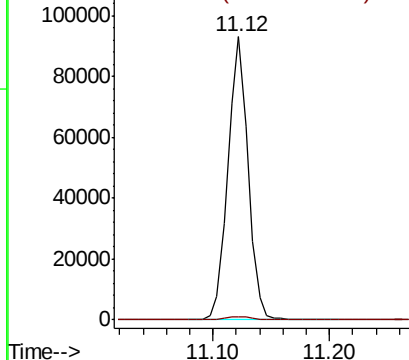
75 100

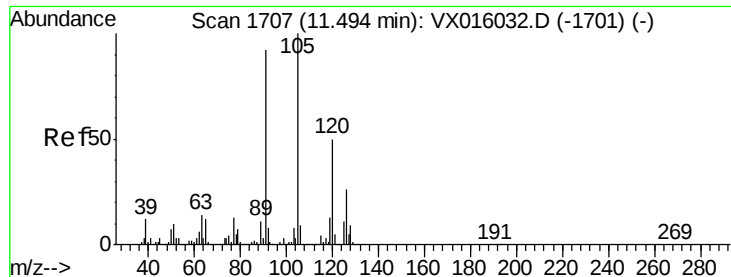
77 1.5 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.223 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

Instrument :

MSVOA_X

ClientSampleId :

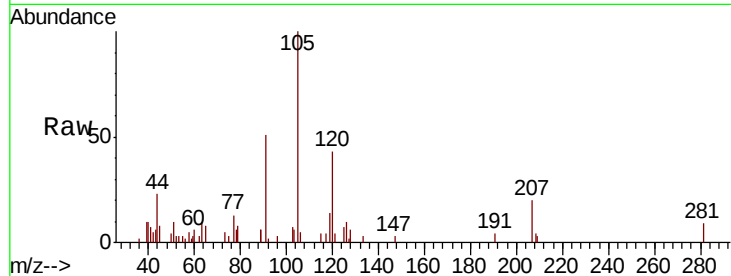
PB128838ZHE#02

Tot Ion:105 Resp: 3166

Ion Ratio Lower Upper

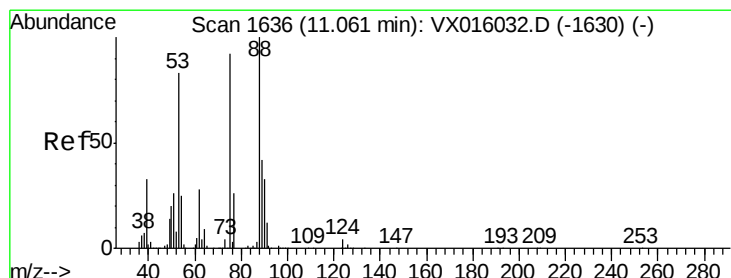
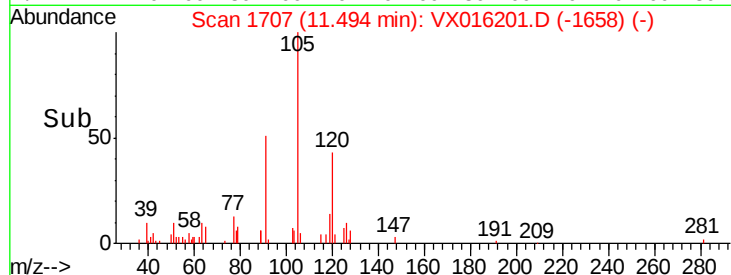
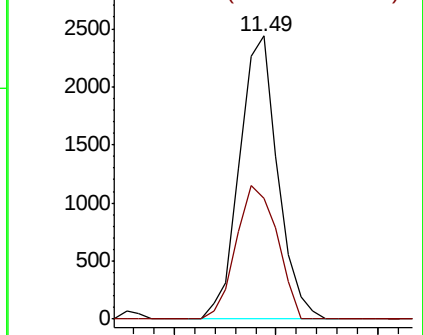
105 100

120 50.6 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 50.550 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016201.D

Acq: 14 May 2020 00:31

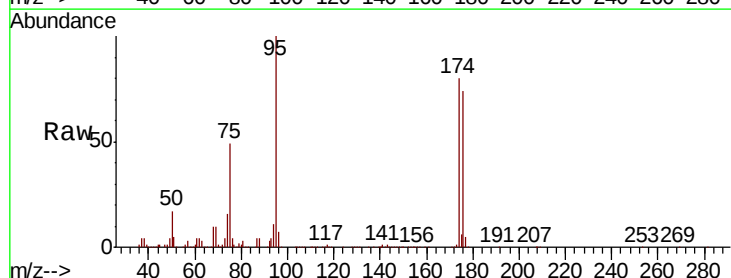
Tgt Ion: 75 Resp: 111257

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

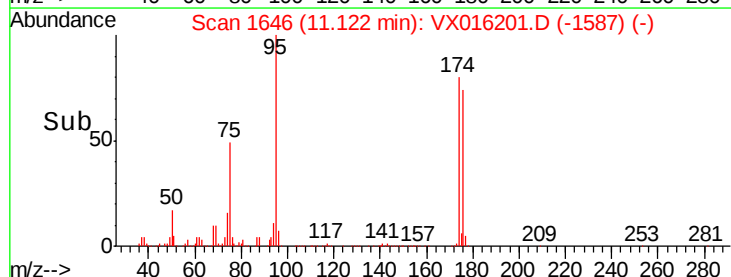
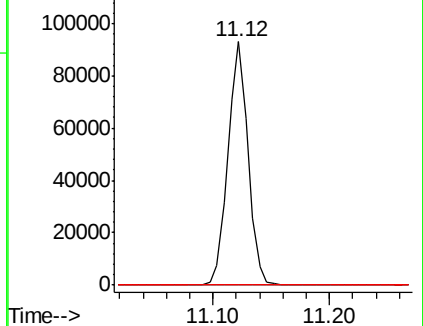
89 0.0 36.7 55.1#

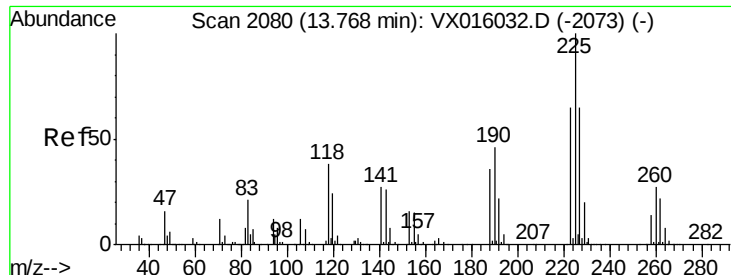


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94
 Hexachlorobutadiene
 Concen: 0.724 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016201.D
 Acq: 14 May 2020 00:31

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128838ZHE#02

Tot Ion	Ratio	Lower	Upper
225	100		
223	70.2	32.3	96.9
227	56.8	31.8	95.4

