

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO051320\
 Data File : VX016204.D
 Acq On : 14 May 2020 01:39
 Operator : JC/SP
 Sample : PB128838ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128838ZHE#05

Quant Time: May 14 04:47:43 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	284273	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	468779	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	466379	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	245548	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	173586	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
35) Dibromofluoromethane	5.47	113	141460	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	8.70	98	584132	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	11.12	95	235652	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1684	1.780	ug/l #	91
13) Acrolein	2.26	56	532	0.899	ug/l #	55
16) Acetone	2.42	43	15874	9.511	ug/l	92
17) Carbon Disulfide	2.56	76	1317	Below Cal	#	68
18) Methyl Acetate	2.75	43	3140	0.765	ug/l	92
20) Methylene Chloride	2.83	84	5788	1.682	ug/l	95
25) 2-Butanone	4.64	43	9141	3.399	ug/l	92
29) Tetrahydrofuran	5.10	42	1526	0.856	ug/l #	73
31) Cyclohexane	5.63	56	5455	1.050	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	21081	4.568	ug/l #	49
37) Ethyl Acetate	4.64	43	9141	1.709	ug/l #	67
38) Carbon Tetrachloride	5.63	117	27570	5.878	ug/l #	14
43) Isopropyl Acetate	6.41	43	82139	9.626	ug/l	98
48) Methyl methacrylate	7.85	41	126780	31.354	ug/l #	40
49) 1,4-Dioxane	7.84	88	329	3.393	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	77866	14.911	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	38030	6.458	ug/l #	55
57) 1,3-Dichloropropane	9.52	76	6438	1.114	ug/l #	44
59) 2-Hexanone	9.52	43	82857	20.205	ug/l #	49
74) N-amyl acetate	10.80	43	4759	0.571	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.26	83	19	2.055	ug/l #	22
76) 1,2,3-Trichloropropane	11.12	75	115130	20.662	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	3161	0.210	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	115130	49.239	ug/l #	13
94) Hexachlorobutadiene	13.77	225	172	0.590	ug/l	75

(#) = 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: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

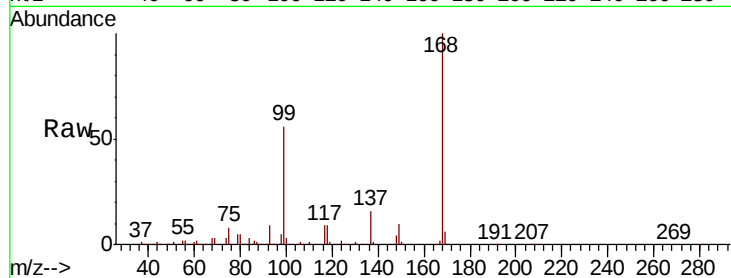
PB128838ZHE#05

Tot Ion:168 Resp: 284273

Ion Ratio Lower Upper

168 100

99 55.9 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

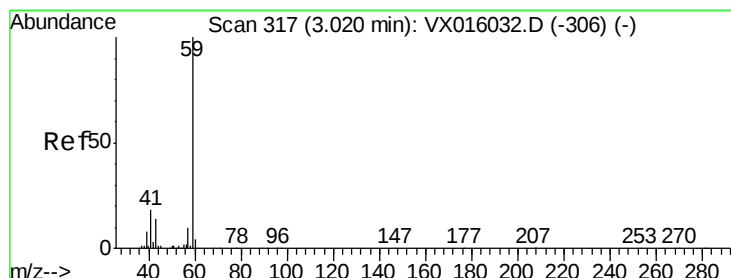
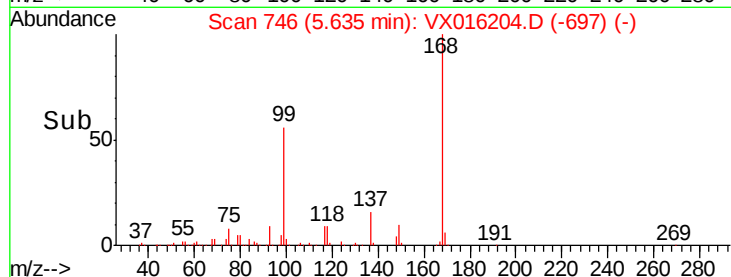
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.780 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016204.D

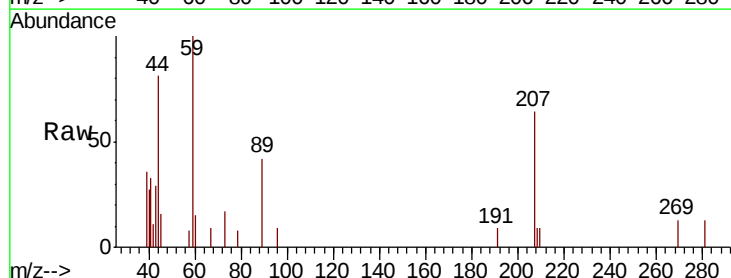
Acq: 14 May 2020 01:39

Tgt Ion: 59 Resp: 1684

Ion Ratio Lower Upper

59 100

57 6.9 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

800

600

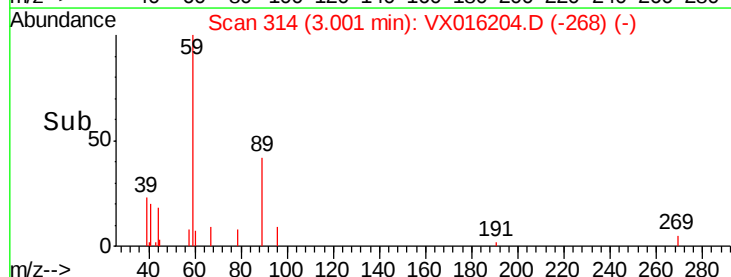
400

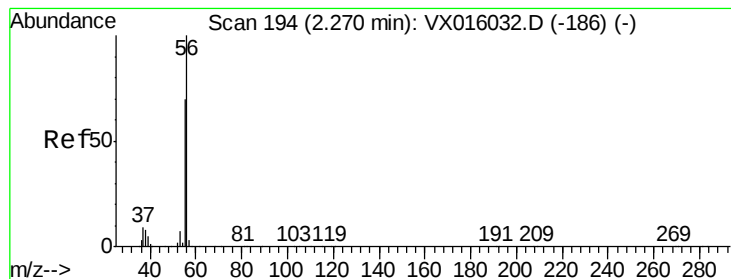
200

0

Time-->

2.95 3.00 3.05





#13

Acrolein

Concen: 0.899 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

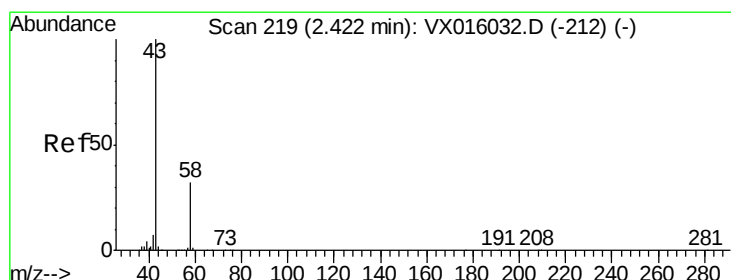
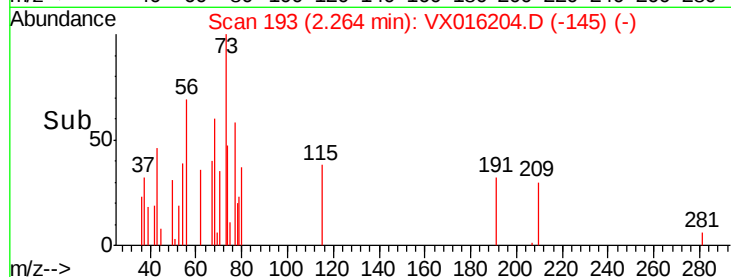
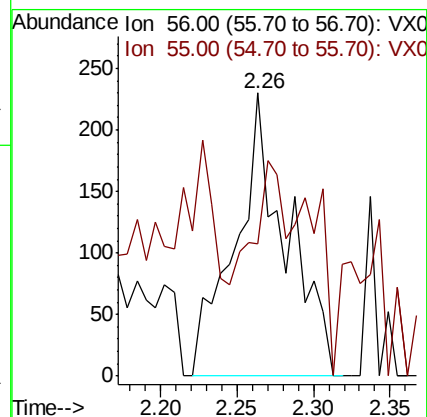
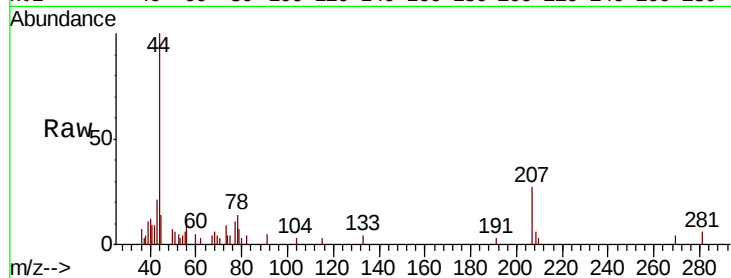
PB128838ZHE#05

Tot Ion: 56 Resp: 532

Ion Ratio Lower Upper

56 100

55 33.8 56.5 84.7#



#16

Acetone

Concen: 9.511 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016204.D

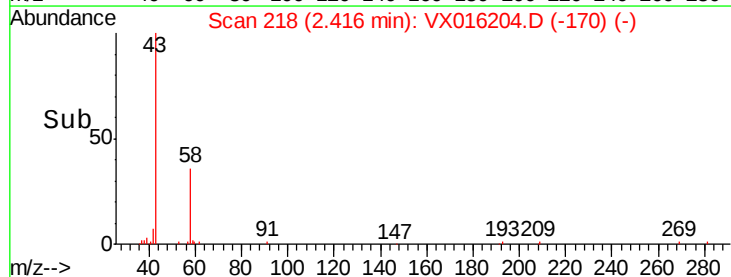
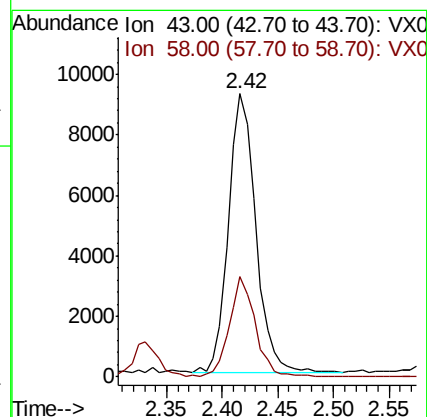
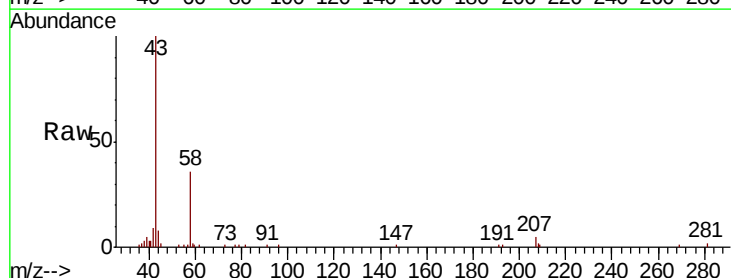
Acq: 14 May 2020 01:39

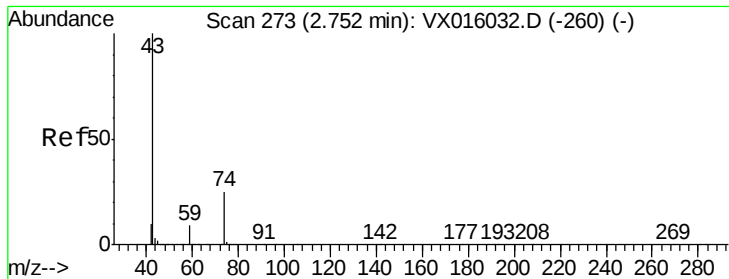
Tgt Ion: 43 Resp: 15874

Ion Ratio Lower Upper

43 100

58 36.0 25.4 38.0

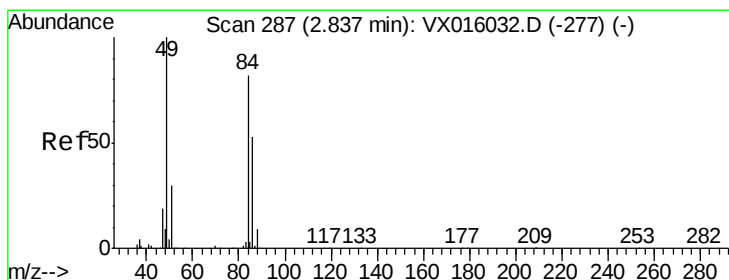
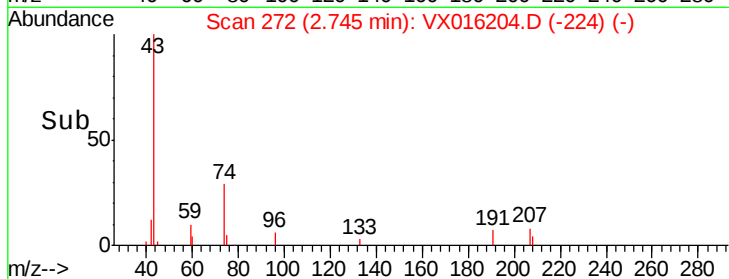
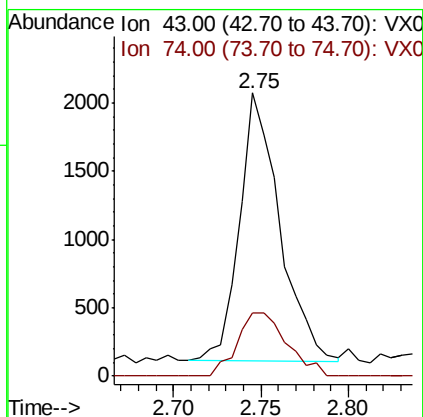
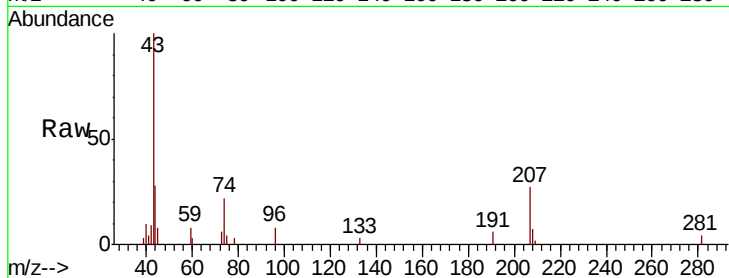




#18
Methyl Acetate
Concen: 0.765 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

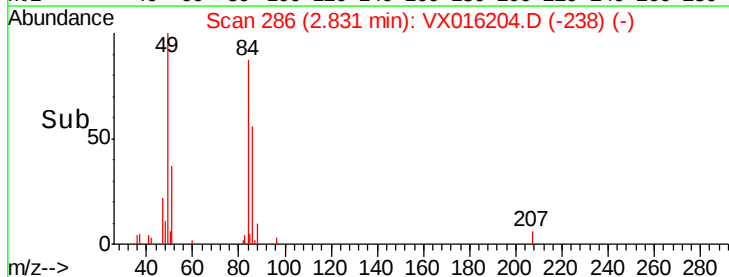
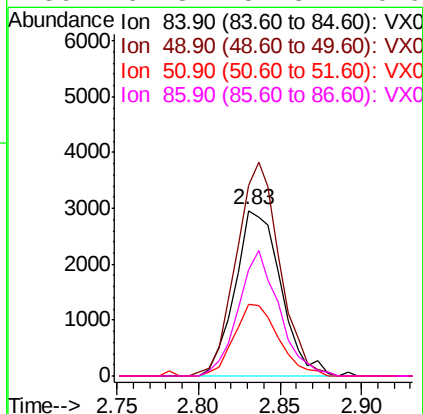
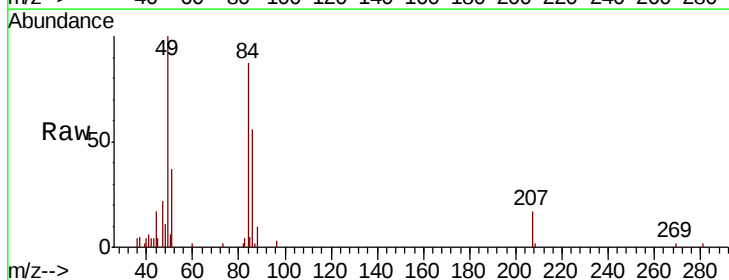
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#05

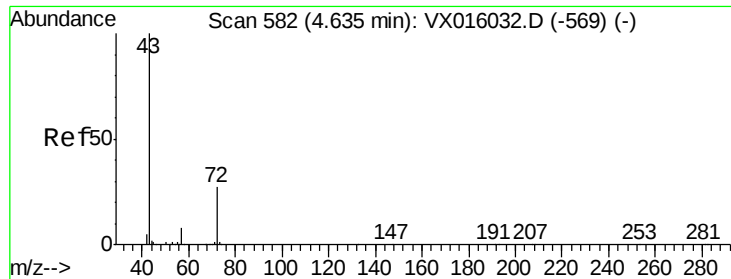
Tot Ion: 43 Resp: 3140
Ion Ratio Lower Upper
43 100
74 29.3 20.2 30.2



#20
Methylene Chloride
Concen: 1.682 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Tgt Ion: 84 Resp: 5788
Ion Ratio Lower Upper
84 100
49 115.1 97.3 145.9
51 43.1 29.3 43.9
86 64.3 51.3 76.9





#25

2-Butanone

Concen: 3.399 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

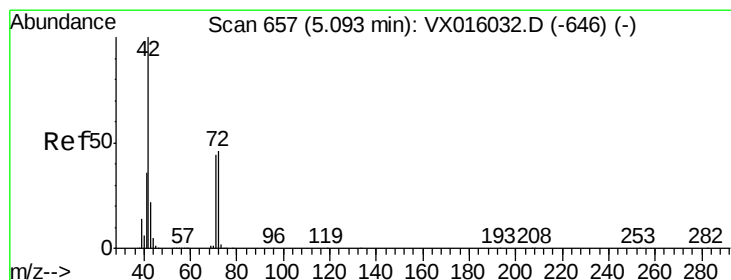
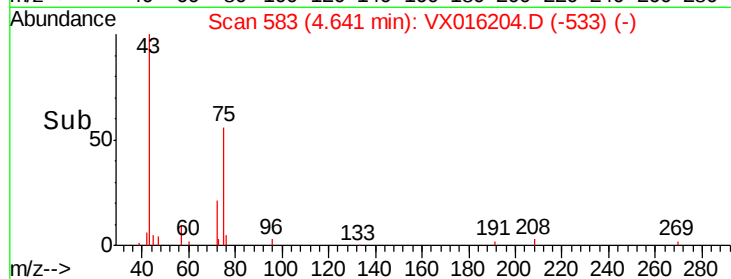
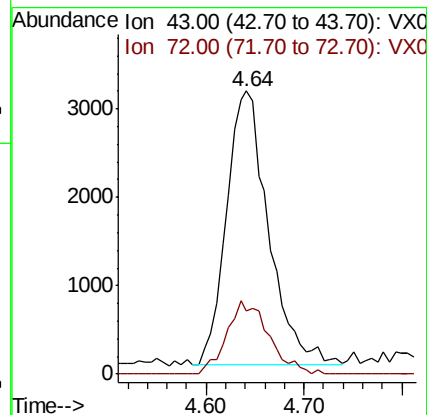
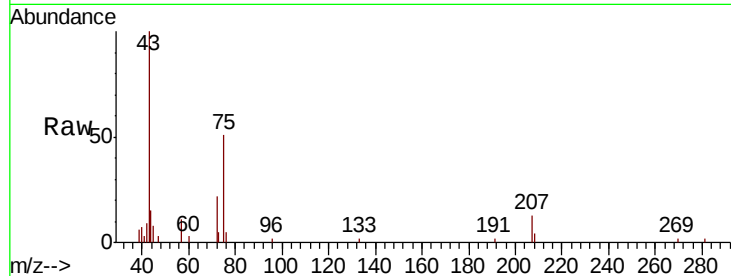
PB128838ZHE#05

Tot Ion: 43 Resp: 9141

Ion Ratio Lower Upper

43 100

72 23.3 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.856 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

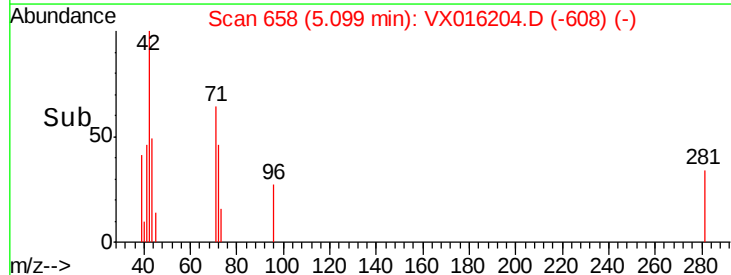
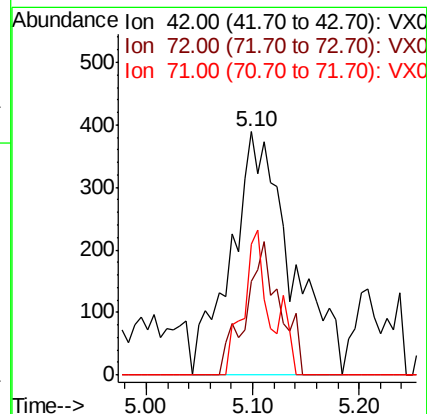
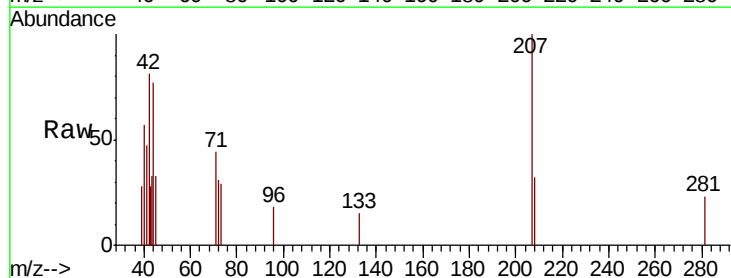
Tgt Ion: 42 Resp: 1526

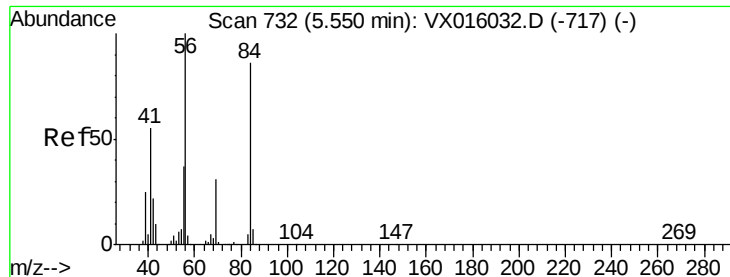
Ion Ratio Lower Upper

42 100

72 31.5 37.1 55.7#

71 23.0 34.5 51.7#

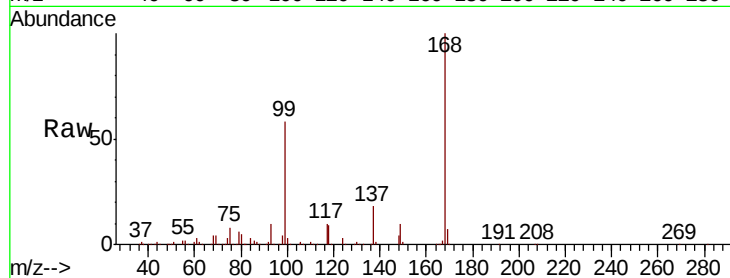




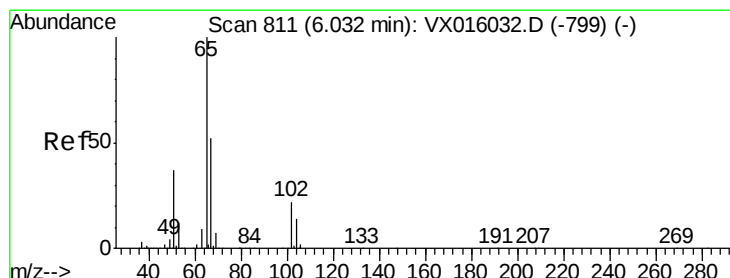
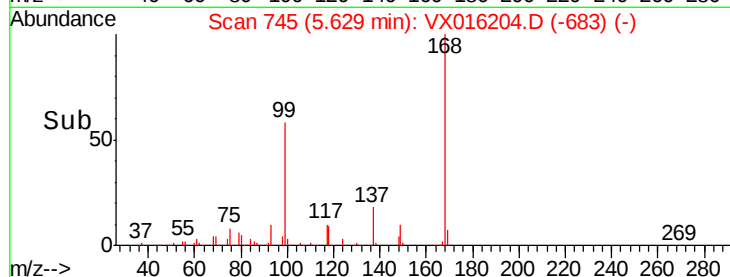
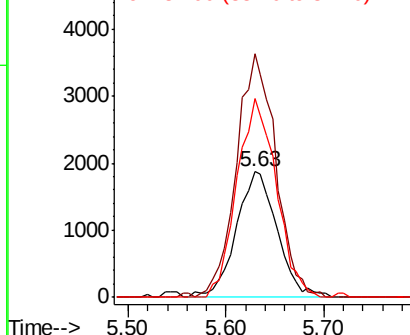
#31
Cvclohexane
Concen: 1.050 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#05

Tot Ion: 56 Resp: 5455
Ion Ratio Lower Upper
56 100
69 194.1 25.0 37.6#
84 158.1 69.0 103.6#

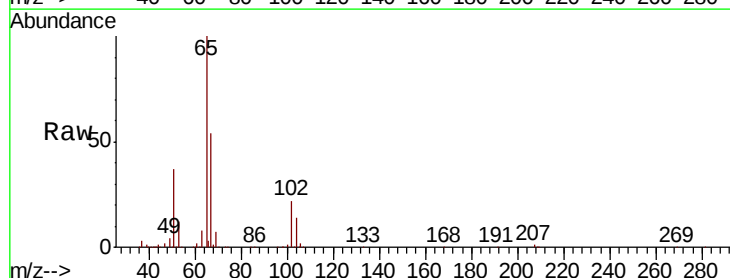


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

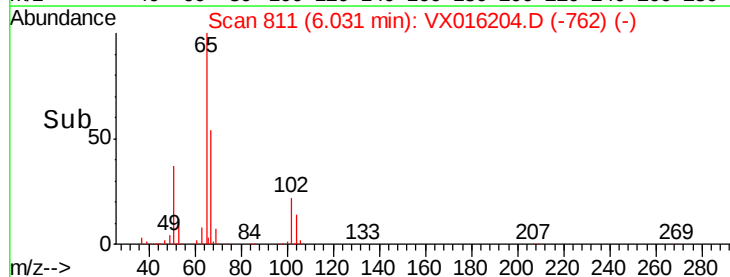
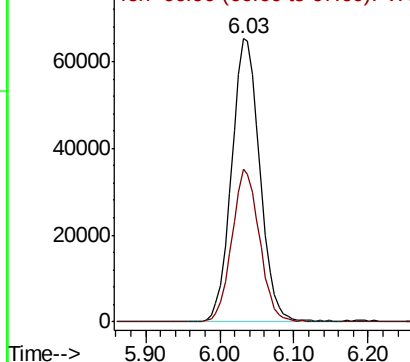


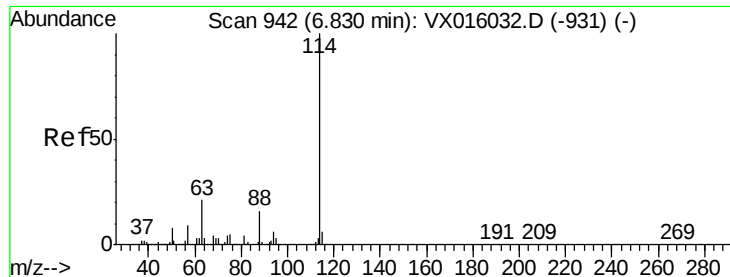
#33
1,2-Dichloroethane-d4
Concen: 46.404 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Tgt Ion: 65 Resp: 173586
Ion Ratio Lower Upper
65 100
67 52.6 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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#05

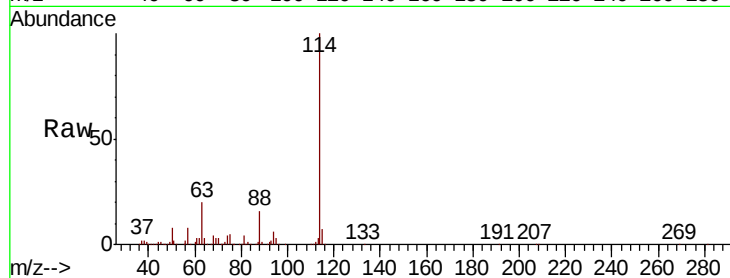
Tot Ion:114 Resp: 468779

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.8

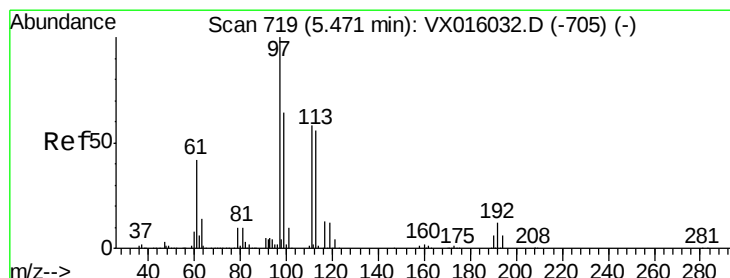
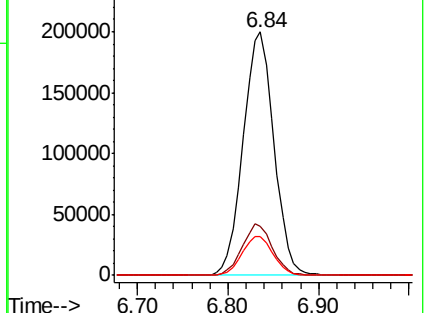
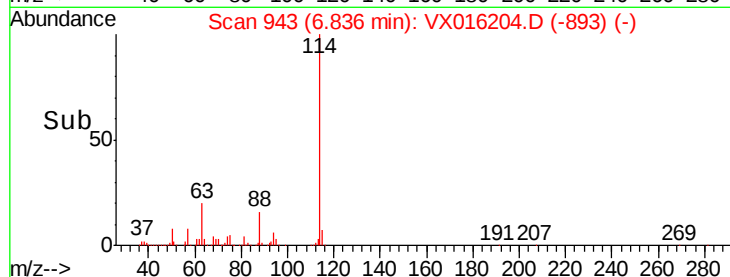
88 15.9 0.0 31.4



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: 47.631 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

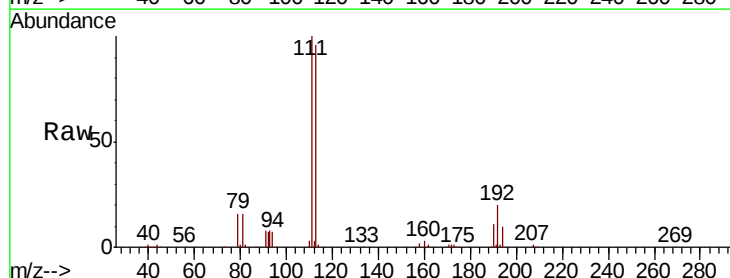
Tgt Ion:113 Resp: 141460

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

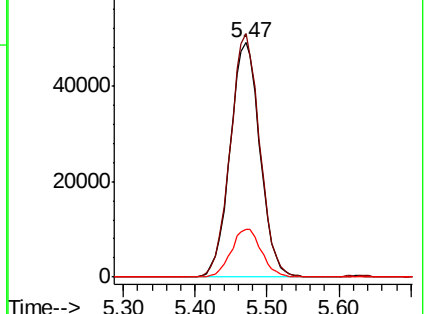
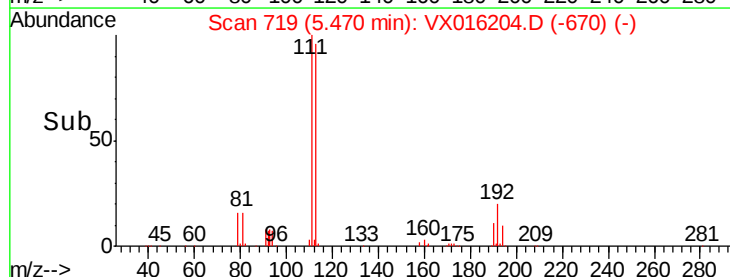
192 20.8 17.0 25.4

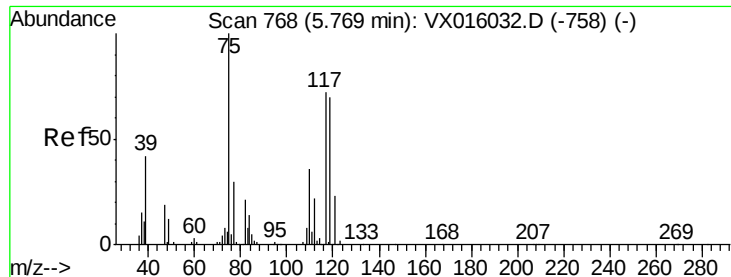


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.568 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

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PB128838ZHE#05

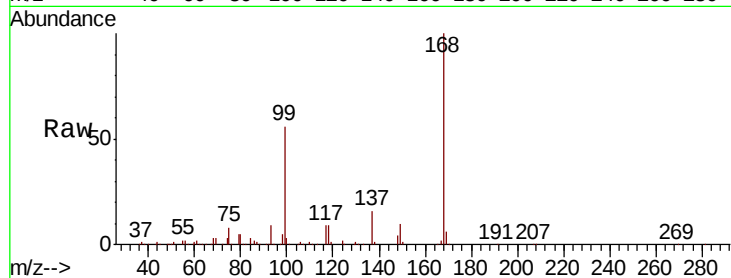
Tot Ion: 75 Resp: 21081

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

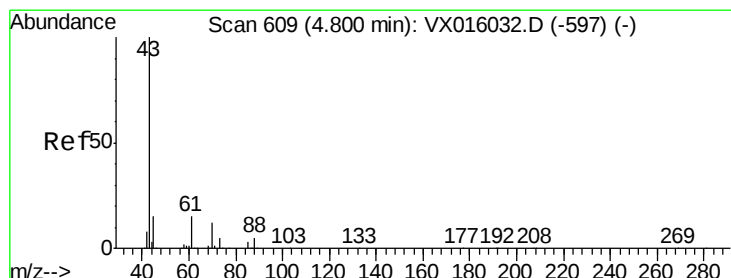
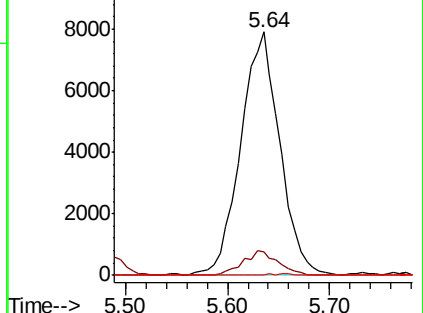
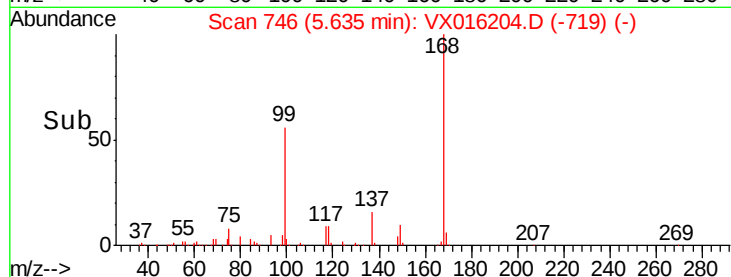
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.709 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

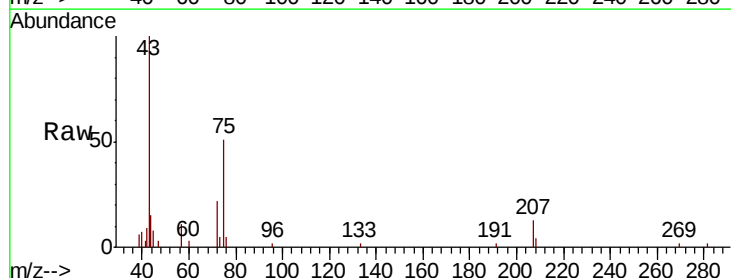
Tgt Ion: 43 Resp: 9141

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

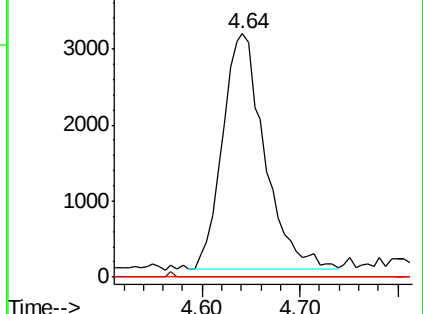
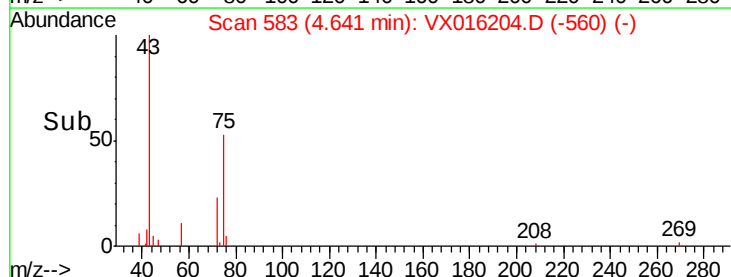
70 0.0 9.3 13.9#

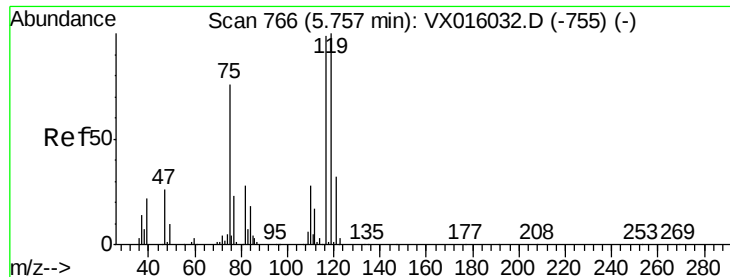


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.878 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#05

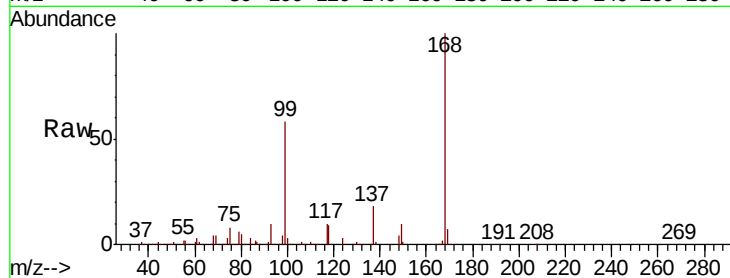
Tot Ion:117 Resp: 27570

Ion Ratio Lower Upper

117 100

119 4.4 80.3 120.5#

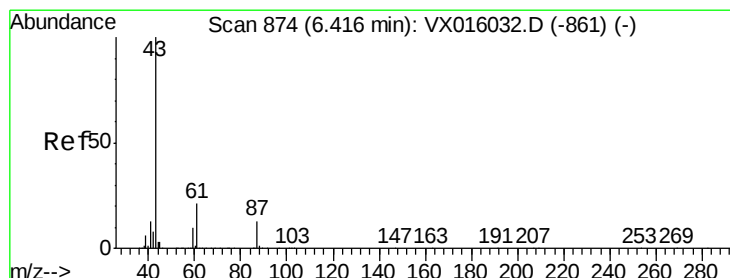
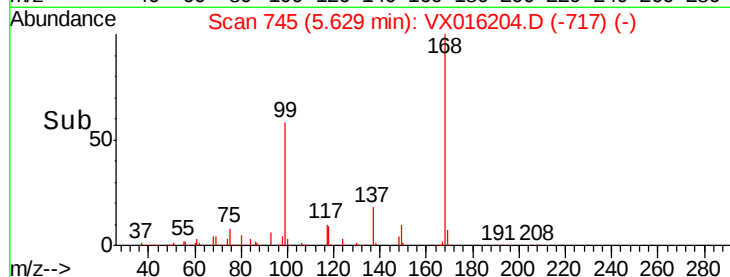
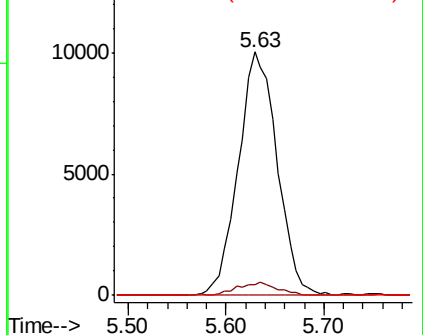
121 0.0 25.7 38.5#



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: 9.626 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

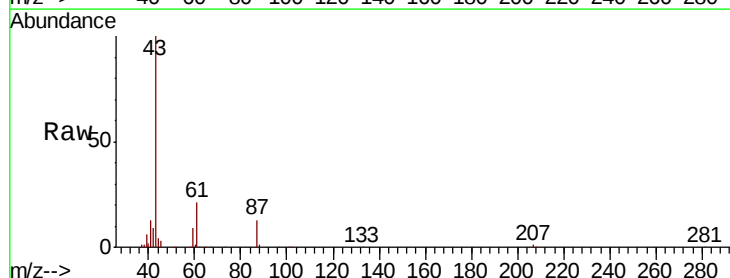
Tgt Ion: 43 Resp: 82139

Ion Ratio Lower Upper

43 100

61 22.1 17.0 25.4

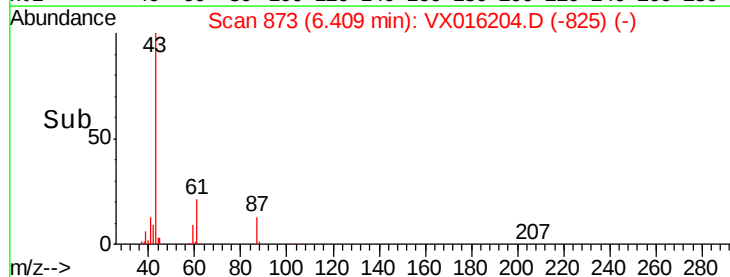
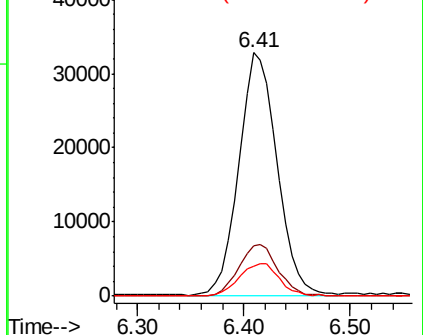
87 14.5 11.0 16.6

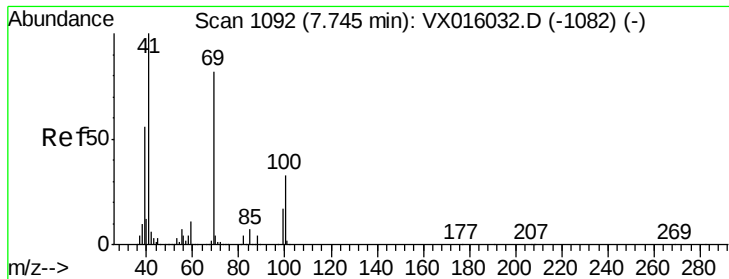


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

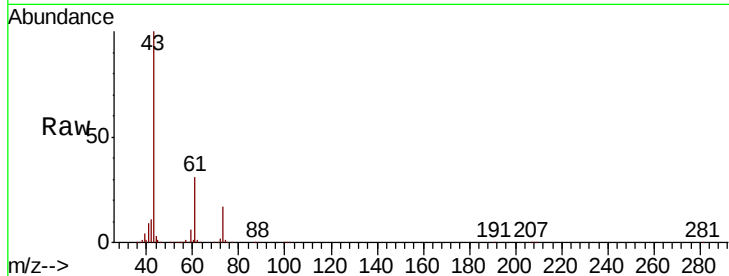




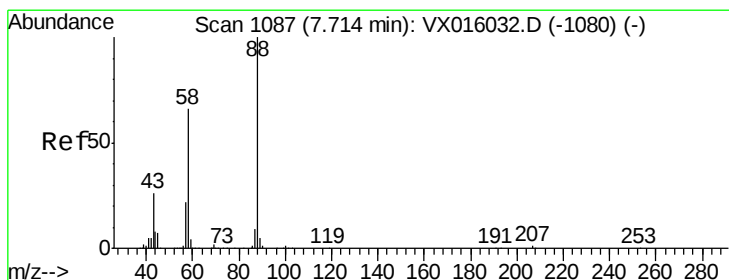
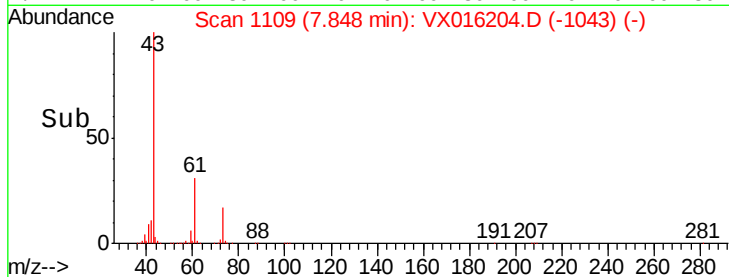
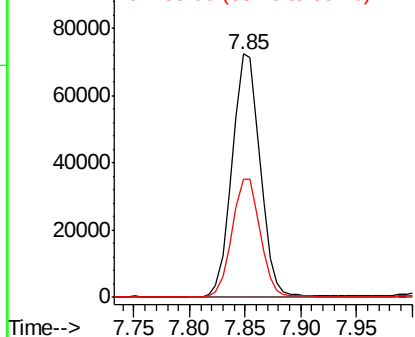
#48
Methvl methacrylate
Concen: 31.354 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#05

Tot Ion: 41 Resp: 126780
Ion Ratio Lower Upper
41 100
69 0.2 67.8 101.6#
39 49.1 44.6 67.0

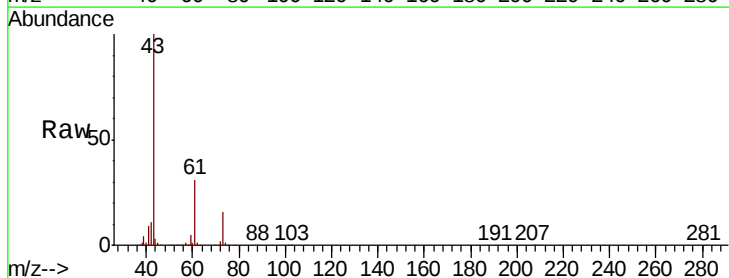


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

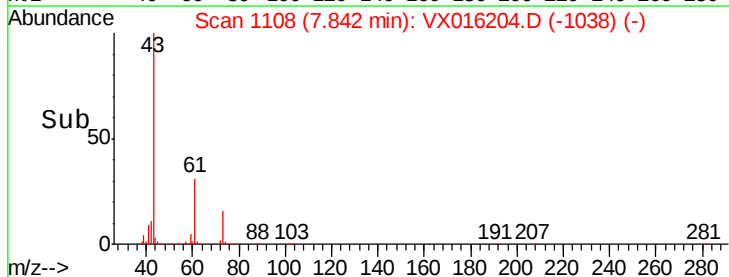
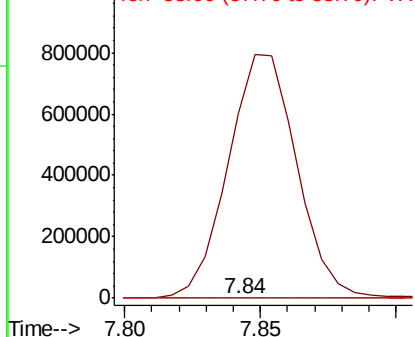


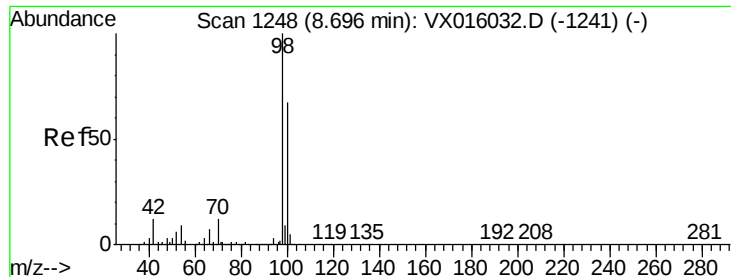
#49
1,4-Dioxane
Concen: 3.393 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Tgt Ion: 88 Resp: 329
Ion Ratio Lower Upper
88 100
43 424457.4 25.3 37.9#
58 1740.7 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: 51.046 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

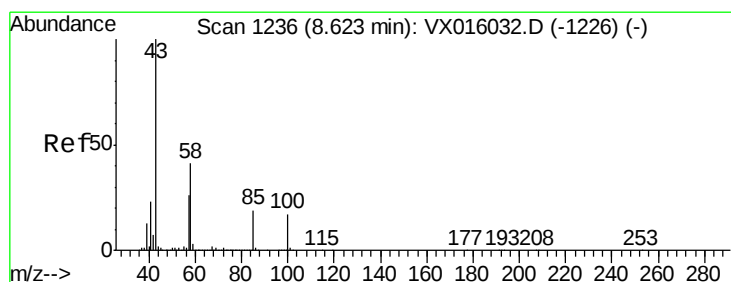
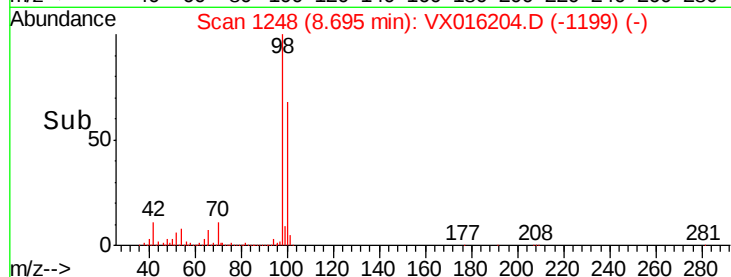
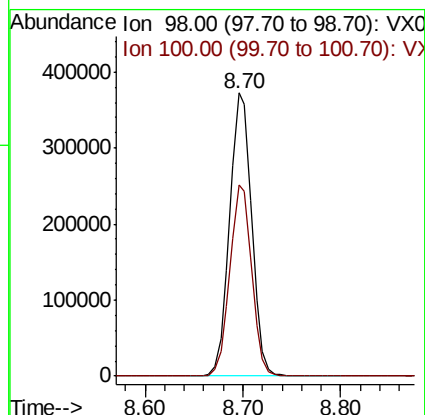
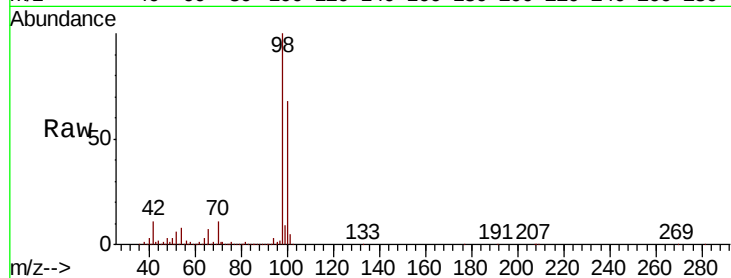
PB128838ZHE#05

Tot Ion: 98 Resp: 584132

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 14.911 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016204.D

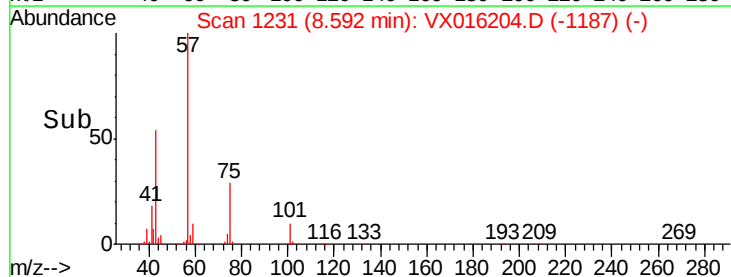
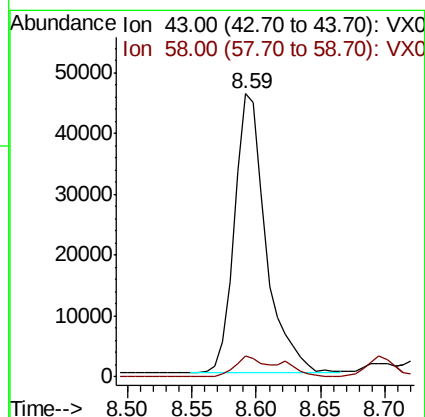
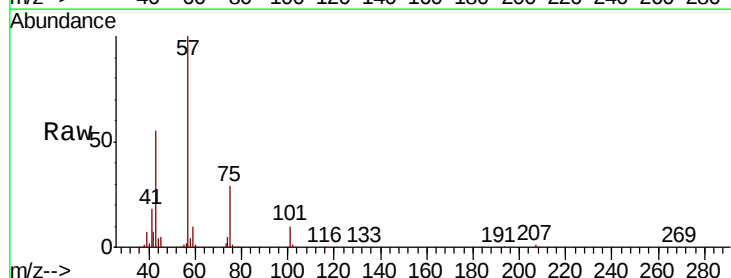
Acq: 14 May 2020 01:39

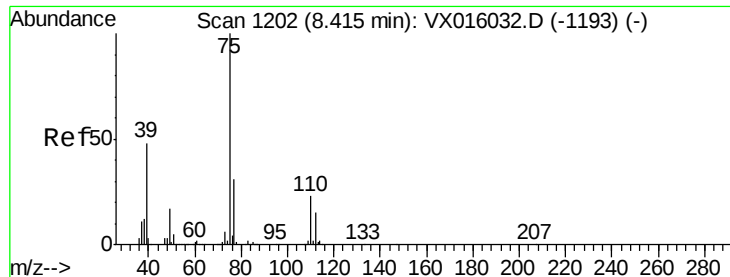
Tgt Ion: 43 Resp: 77866

Ion Ratio Lower Upper

43 100

58 6.8 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 6.458 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#05

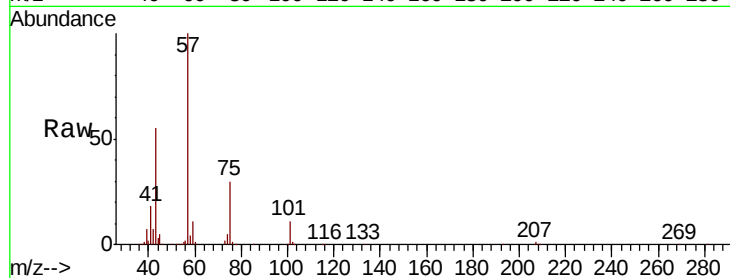
Tot Ion: 75 Resp: 38030

Ion Ratio Lower Upper

75 100

77 0.5 24.7 37.1#

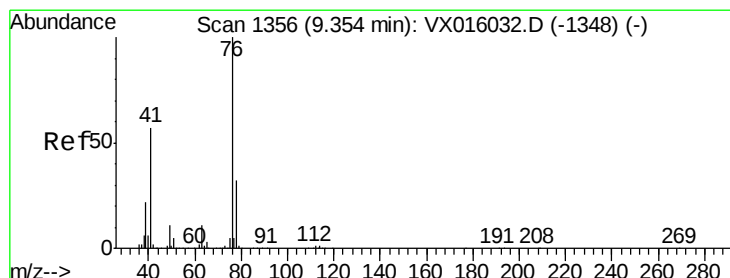
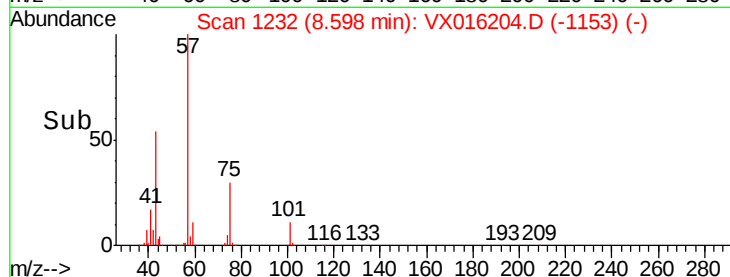
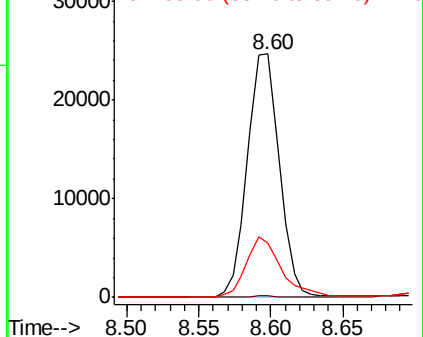
39 22.0 38.7 58.1#



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: 1.114 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016204.D

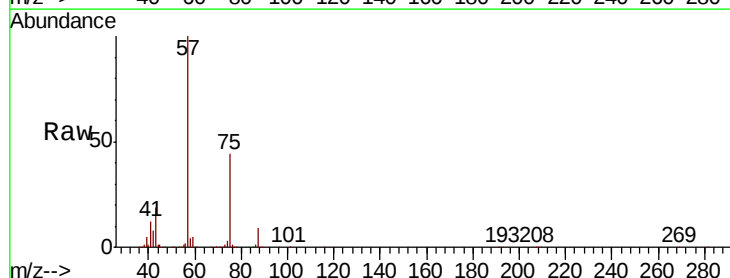
Acq: 14 May 2020 01:39

Tgt Ion: 76 Resp: 6438

Ion Ratio Lower Upper

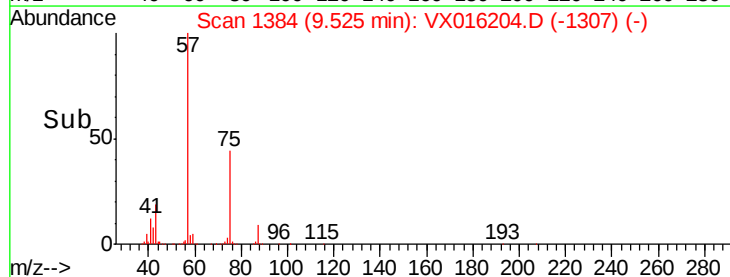
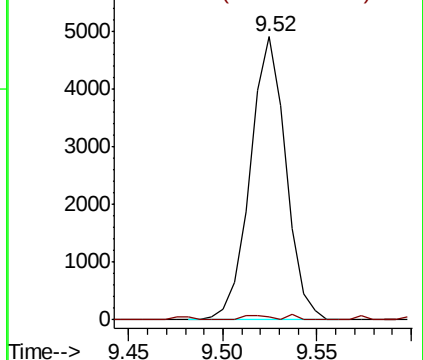
76 100

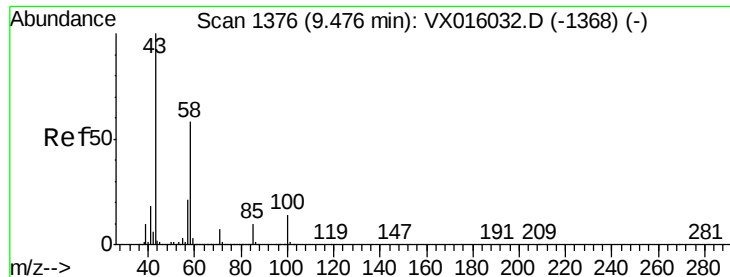
78 1.1 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

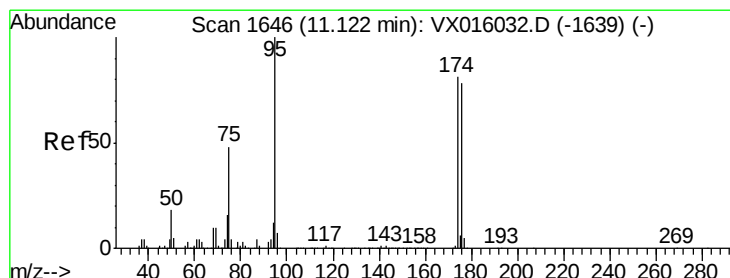
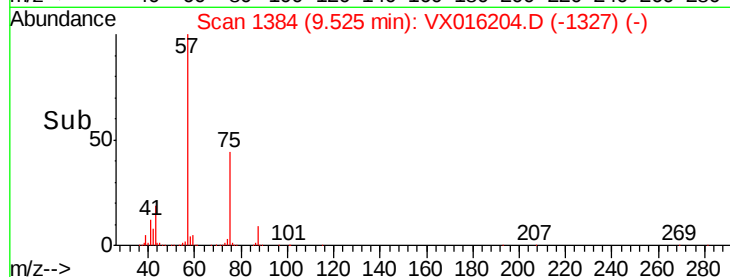
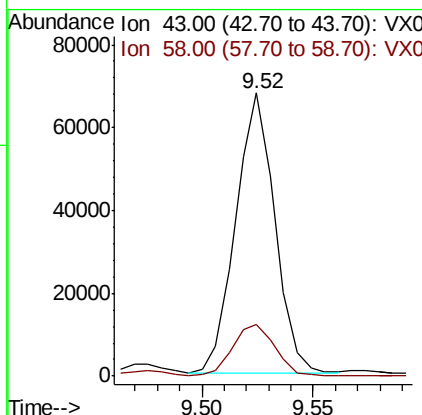
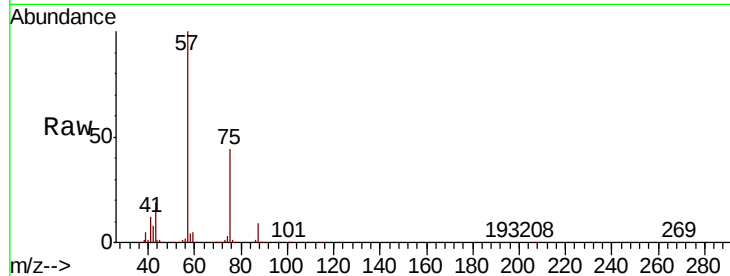




#59
2-Hexanone
Concen: 20.205 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

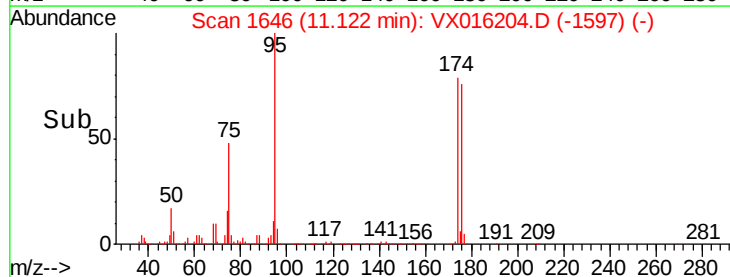
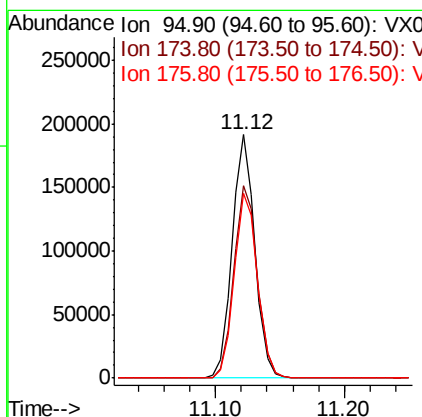
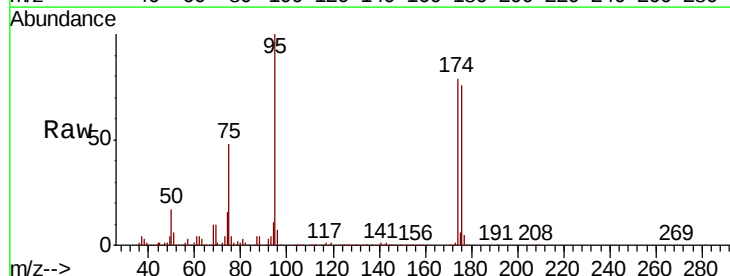
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#05

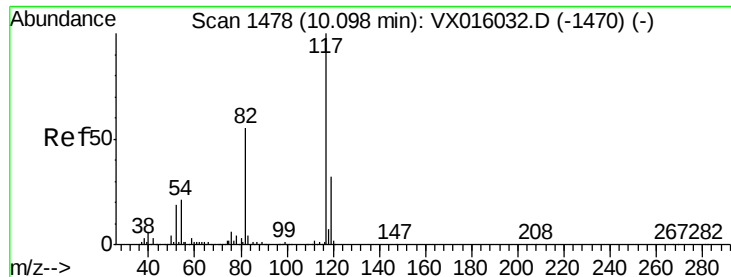
Tot Ion: 43 Resp: 82857
Ion Ratio Lower Upper
43 100
58 19.9 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 54.142 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Tgt Ion: 95 Resp: 235652
Ion Ratio Lower Upper
95 100
174 81.8 0.0 159.4
176 77.8 0.0 157.6

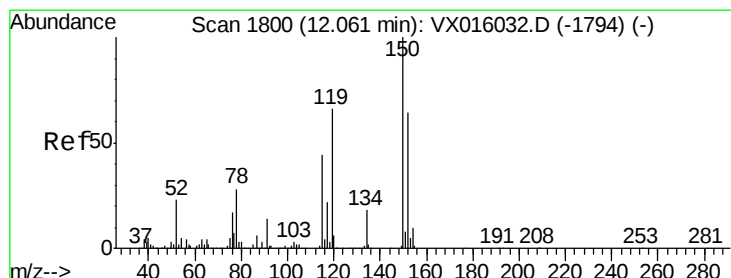
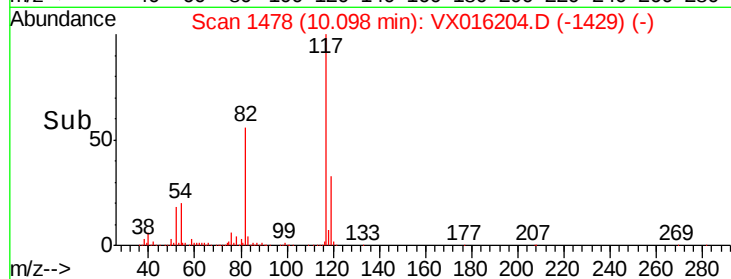
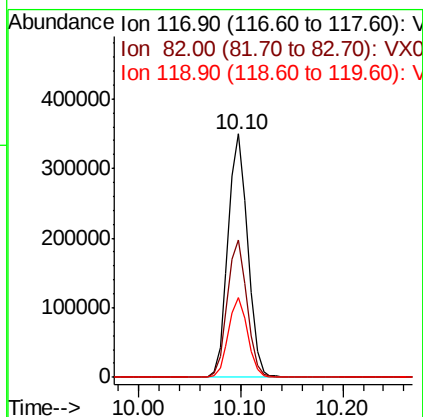
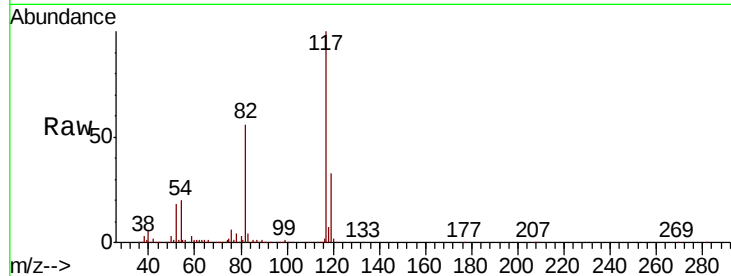




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

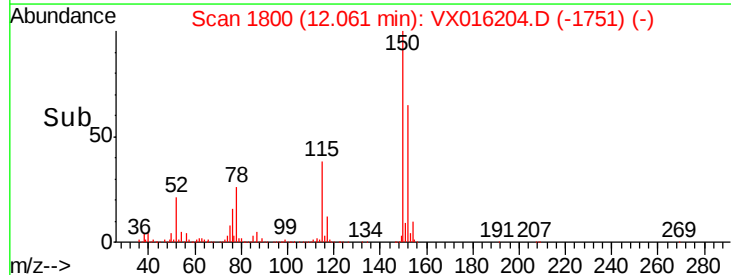
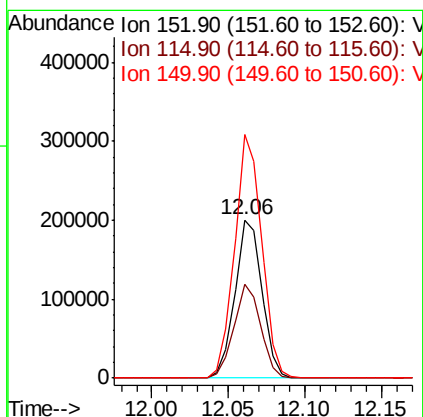
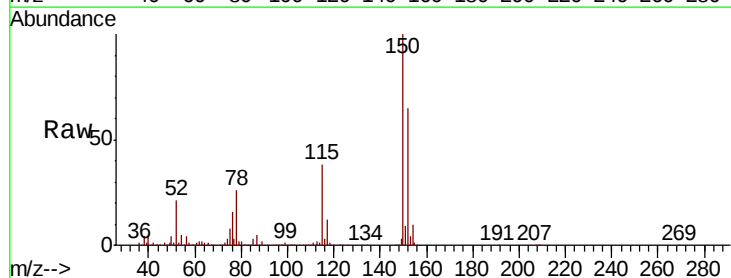
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#05

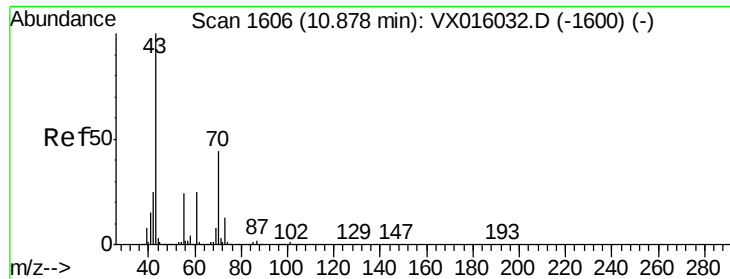
Tot Ion:117 Resp: 466379
Ion Ratio Lower Upper
117 100
82 56.4 44.4 66.6
119 32.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016204.D
Acq: 14 May 2020 01:39

Tgt Ion:152 Resp: 245548
Ion Ratio Lower Upper
152 100
115 58.5 41.3 124.1
150 154.3 0.0 352.2





#74

N-amvl acetate

Concen: 0.571 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#05

Tot Ion: 43 Resp: 4759

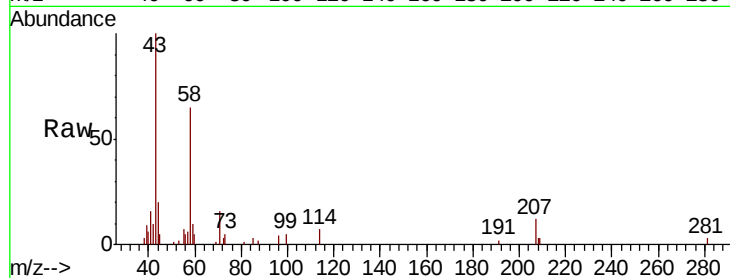
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 9.1 19.7 29.5#

61 0.0 20.9 31.3#

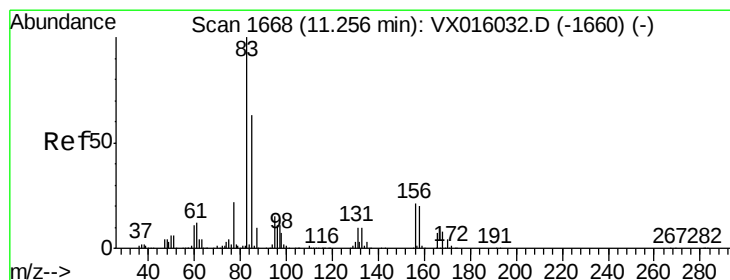
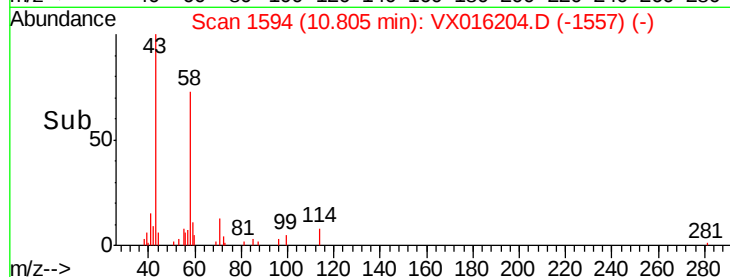
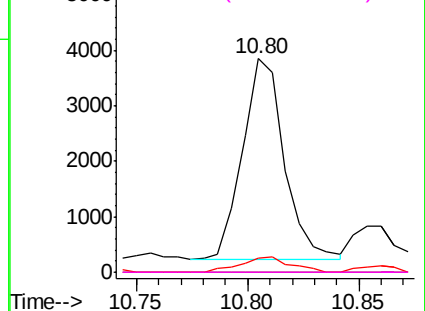


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 2.055 ug/l

RT: 11.26 min Scan# 1668

Delta R.T. -0.00 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

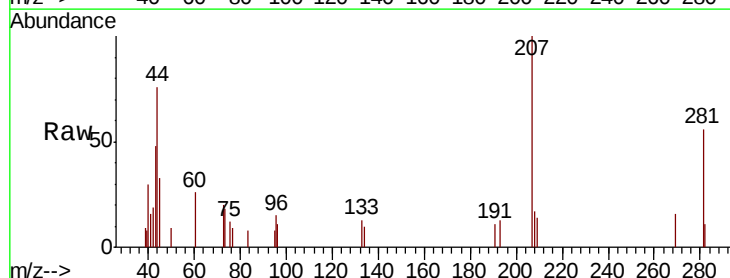
Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

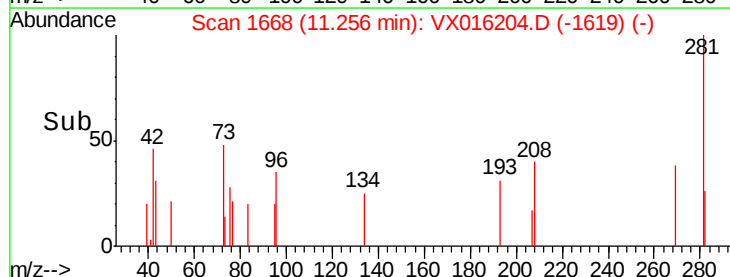
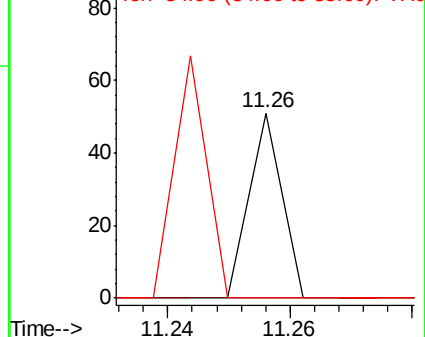
85 131.6 32.0 96.0#

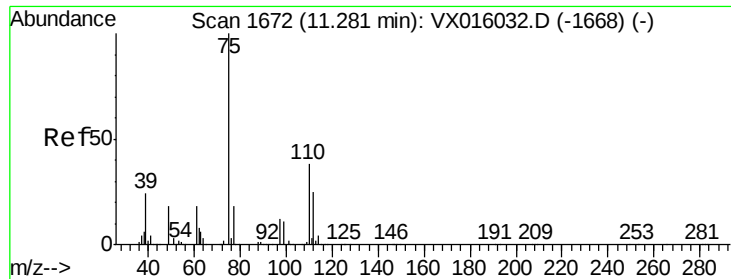


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 20.662 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

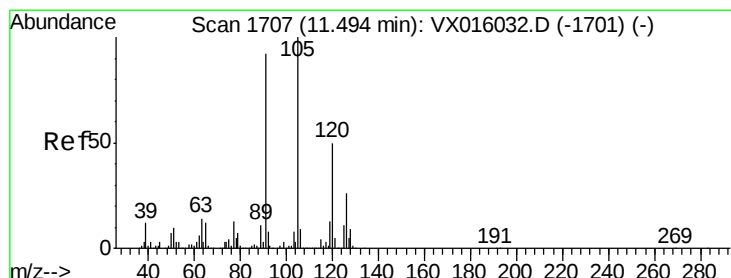
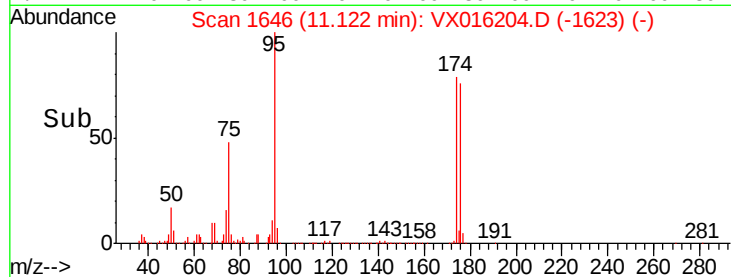
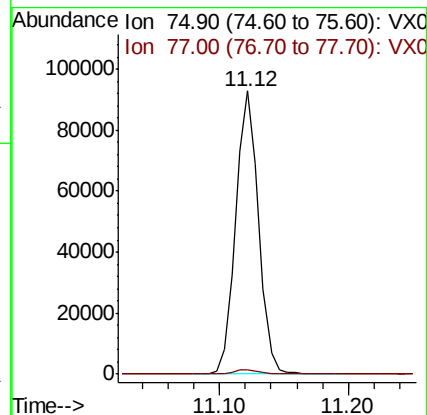
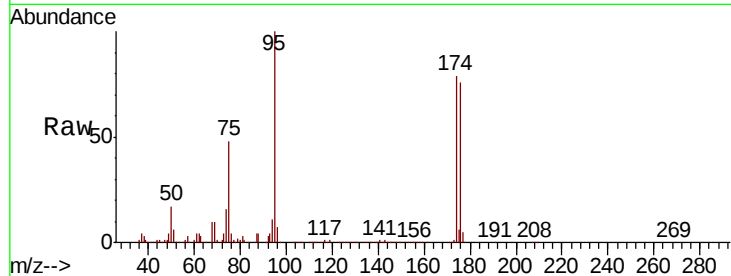
PB128838ZHE#05

Tot Ion: 75 Resp: 115130

Ion Ratio Lower Upper

75 100

77 1.5 21.2 63.6#



#80

1,3,5-Trimethylbenzene

Concen: 0.210 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016204.D

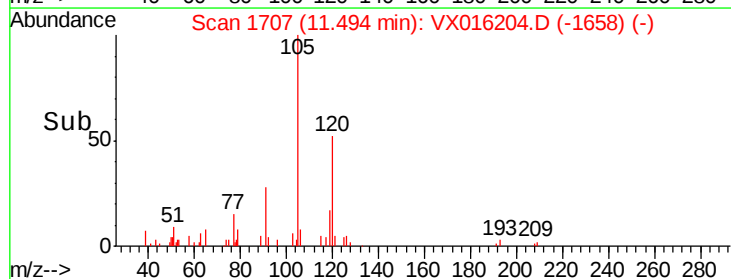
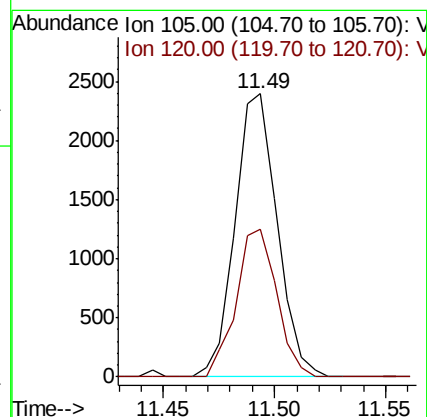
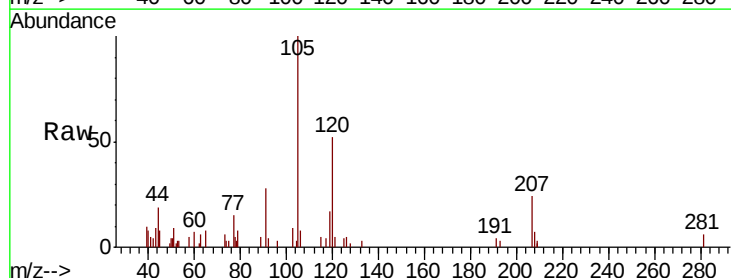
Acq: 14 May 2020 01:39

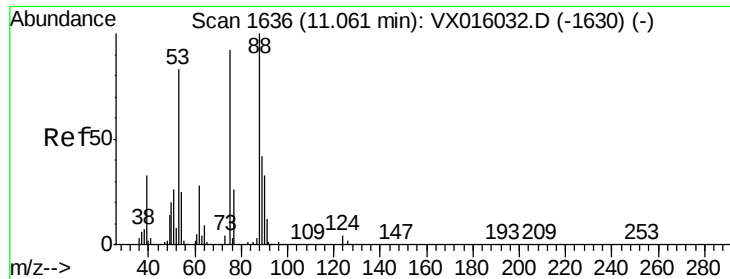
Tgt Ion: 105 Resp: 3161

Ion Ratio Lower Upper

105 100

120 50.4 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 49.239 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#05

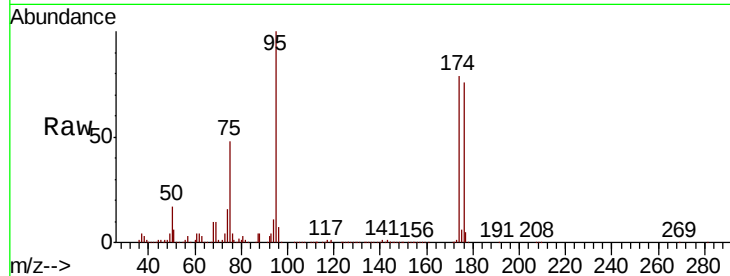
Tot Ion: 75 Resp: 115130

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#

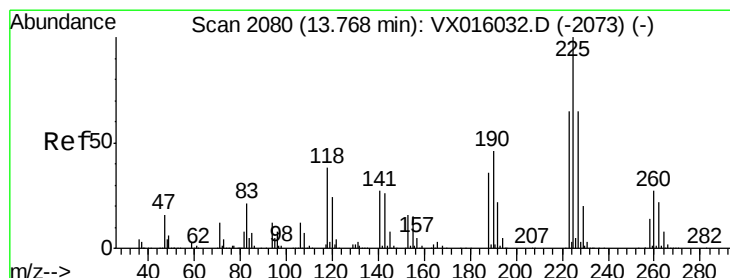
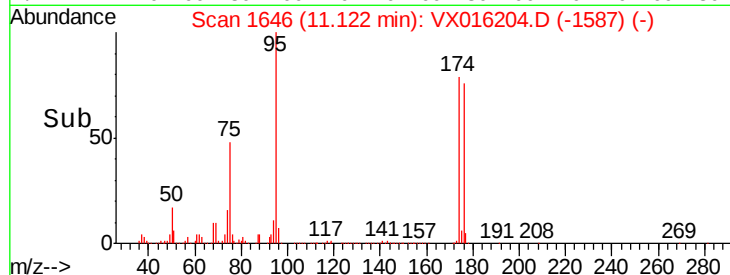
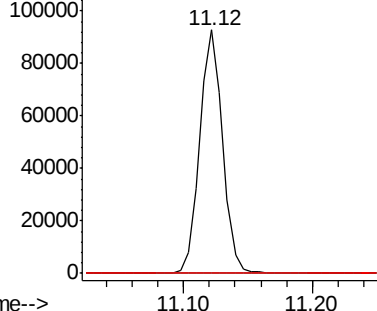


Abundance

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



#94

Hexachlorobutadiene

Concen: 0.590 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016204.D

Acq: 14 May 2020 01:39

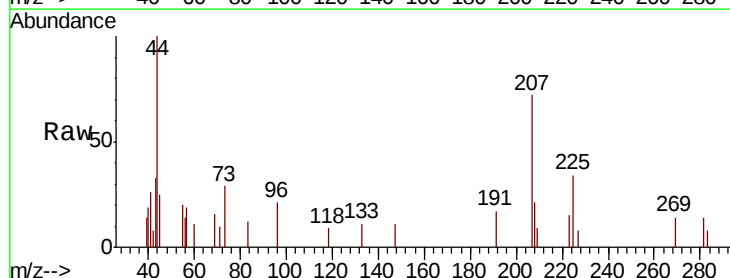
Tgt Ion: 225 Resp: 172

Ion Ratio Lower Upper

225 100

223 34.3 32.3 96.9

227 55.2 31.8 95.4



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

