

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110420\
 Data File : VX019255.D
 Acq On : 03 Nov 2020 23:45
 Operator : JC/MD
 Sample : PB132784ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132784ZHE#05

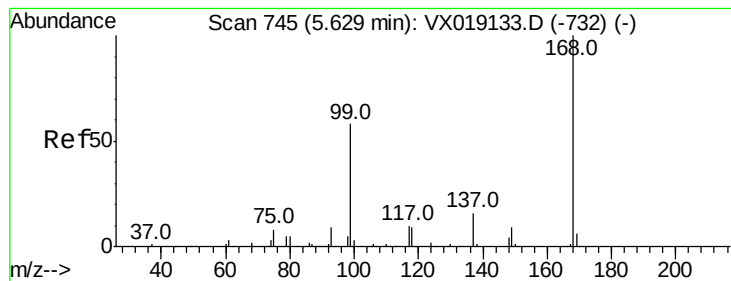
Quant Time: Nov 04 02:26:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	312236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	559743	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	544848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	284006	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	215999	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	
35) Dibromofluoromethane	5.46	113	173895	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	8.70	98	703170	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
62) 4-Bromofluorobenzene	11.12	95	271248	54.04	ug/l	0.00
Spiked Amount			Recovery	=	108.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	831	1.045	ug/l #	78
13) Acrolein	2.22	56	241	6.310	ug/l #	16
16) Acetone	2.42	43	11617	8.363	ug/l	98
17) Carbon Disulfide	2.56	76	341	0.799	ug/l #	75
18) Methyl Acetate	2.75	43	2882	0.853	ug/l	100
20) Methylene Chloride	2.84	84	6568	1.883	ug/l	95
25) 2-Butanone	4.64	43	2330	1.064	ug/l #	80
29) Tetrahydrofuran	5.11	42	1560	1.131	ug/l #	84
31) Cyclohexane	5.63	56	6912	1.358	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	25568	4.947	ug/l #	49
38) Carbon Tetrachloride	5.63	117	32887	6.242	ug/l #	17
43) Isopropyl Acetate	6.41	43	75308	9.372	ug/l	97
48) Methyl methacrylate	7.85	41	122840	31.761	ug/l #	37
49) 1,4-Dioxane	7.84	88	274	3.186	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	74494	16.129	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	35996	5.728	ug/l #	61
56) Ethyl methacrylate	9.28	69	1214	0.216	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6340	1.008	ug/l #	42
59) 2-Hexanone	9.52	43	79363	22.574	ug/l #	46
74) N-amyl acetate	10.81	43	3086	0.420	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	138746	23.660	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	138746	62.297	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

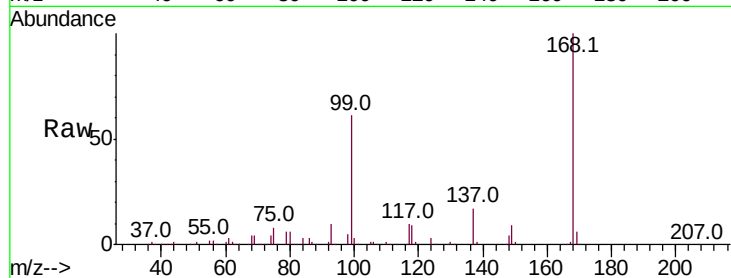
PB132784ZHE#05

Tot Ion:168 Resp: 312236

Ion Ratio Lower Upper

168 100

99 60.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

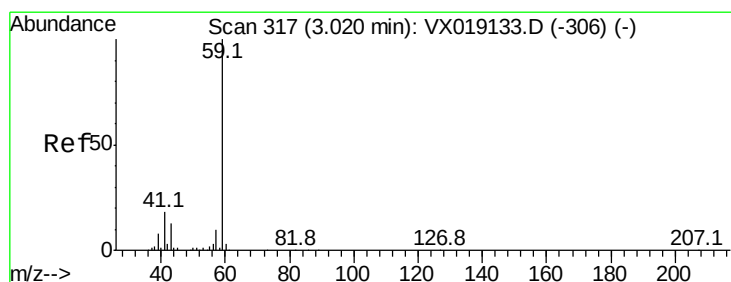
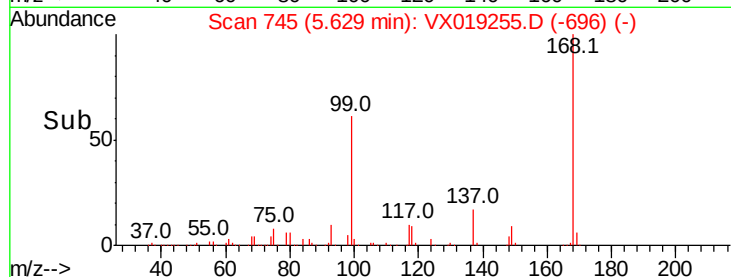
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.045 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX019255.D

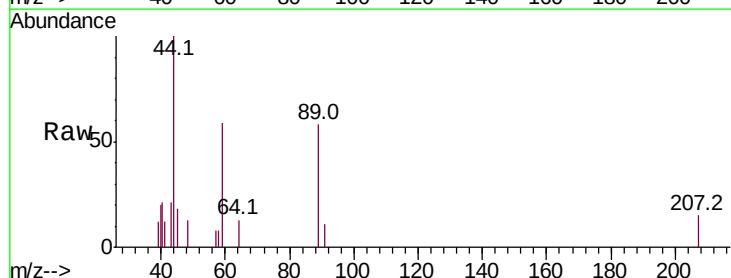
Acq: 03 Nov 2020 23:45

Tgt Ion: 59 Resp: 831

Ion Ratio Lower Upper

59 100

57 2.3 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

400

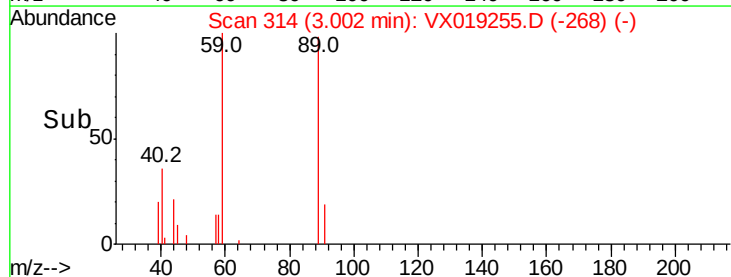
300

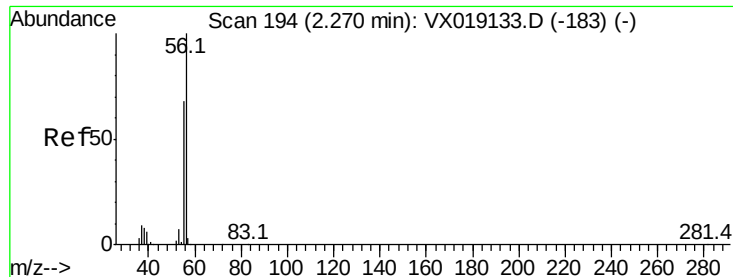
200

100

0

Time-->





#13

Acrolein

Concen: 6.310 ug/l

RT: 2.22 min Scan# 185

Delta R.T. -0.05 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

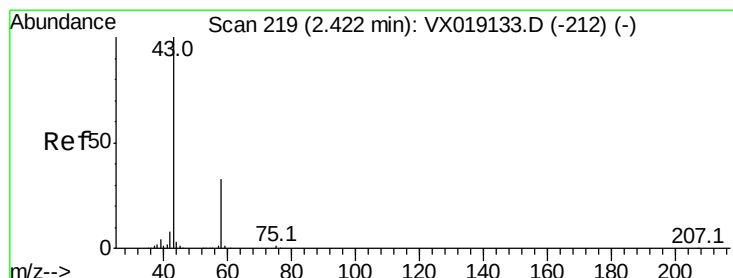
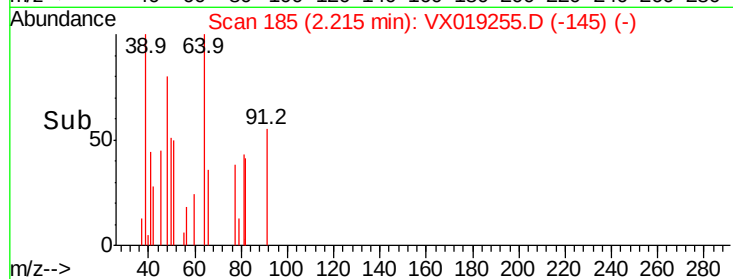
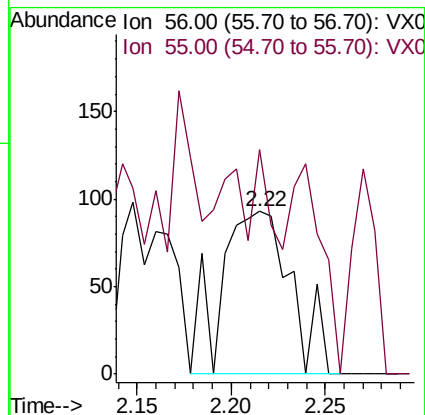
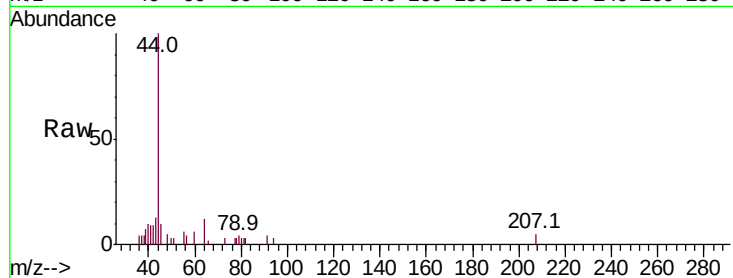
PB132784ZHE#05

Tot Ion: 56 Resp: 241

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#16

Acetone

Concen: 8.363 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019255.D

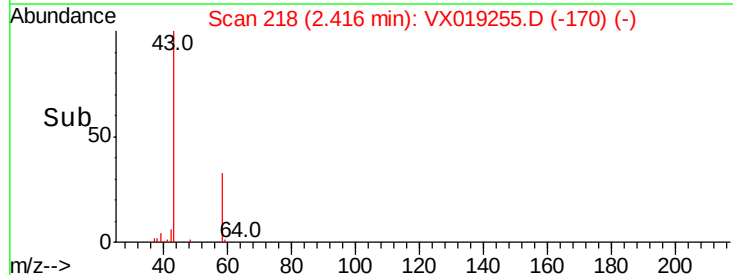
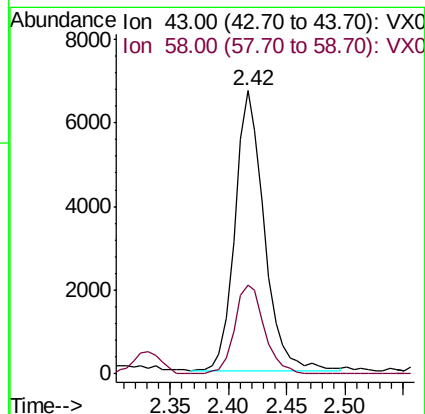
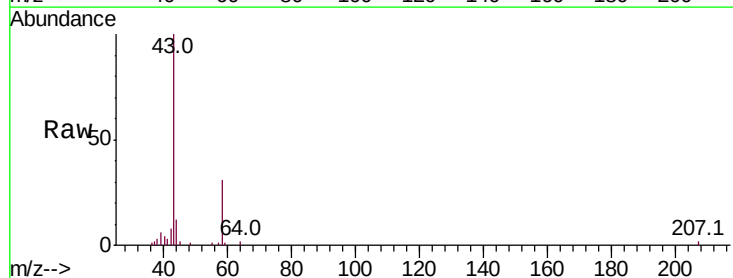
Acq: 03 Nov 2020 23:45

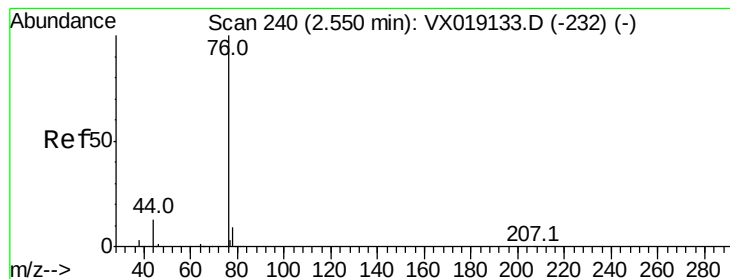
Tgt Ion: 43 Resp: 11617

Ion Ratio Lower Upper

43 100

58 31.9 26.3 39.5





#17

Carbon Disulfide

Concen: 0.799 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

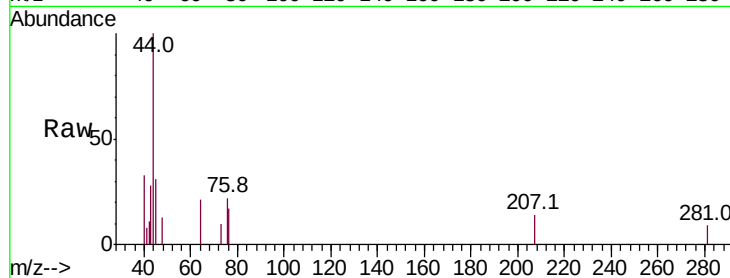
PB132784ZHE#05

Tot Ion: 76 Resp: 341

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

250

200

150

100

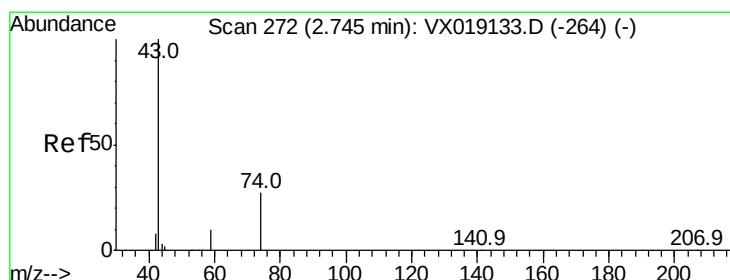
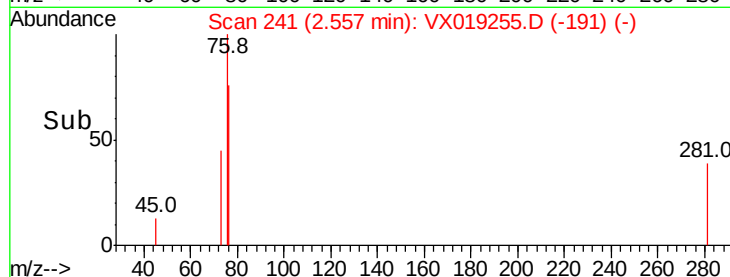
50

0

Time-->

2.55

2.60



#18

Methyl Acetate

Concen: 0.853 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019255.D

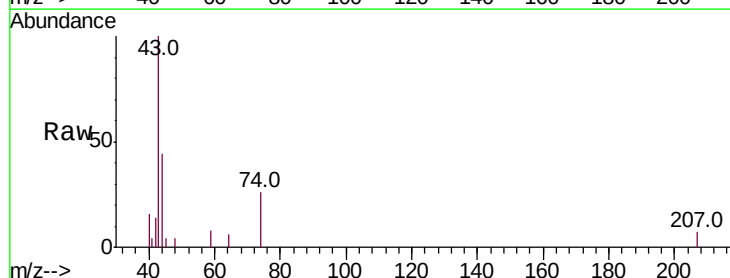
Acq: 03 Nov 2020 23:45

Tgt Ion: 43 Resp: 2882

Ion Ratio Lower Upper

43 100

74 28.2 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2000

1500

1000

500

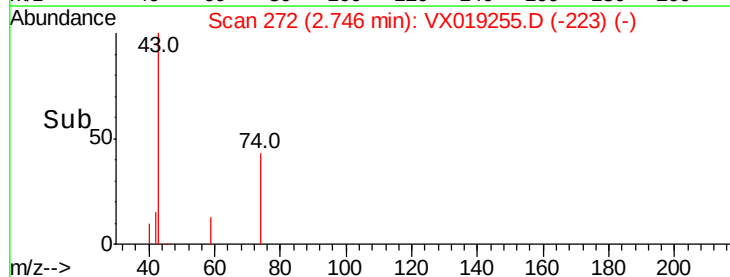
0

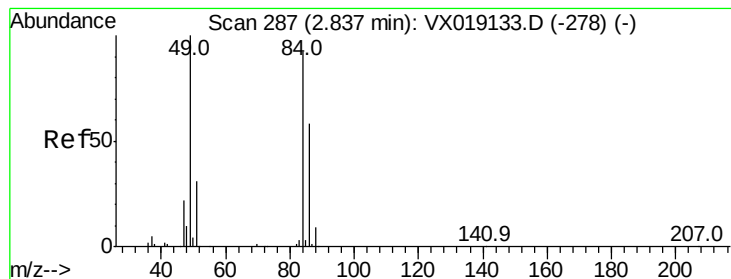
Time-->

2.70

2.75

2.80





#20

Methvlene Chloride

Concen: 1.883 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

PB132784ZHE#05

Tot Ion: 84 Resp: 6568

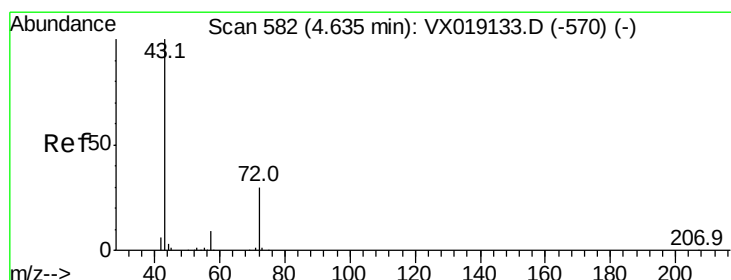
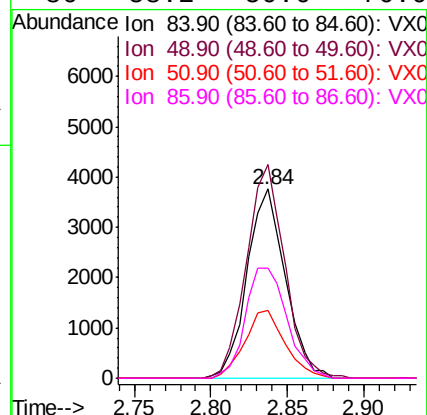
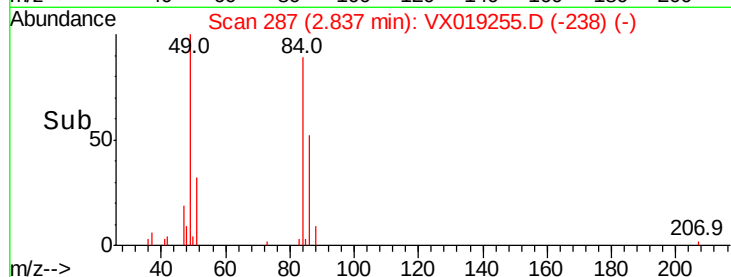
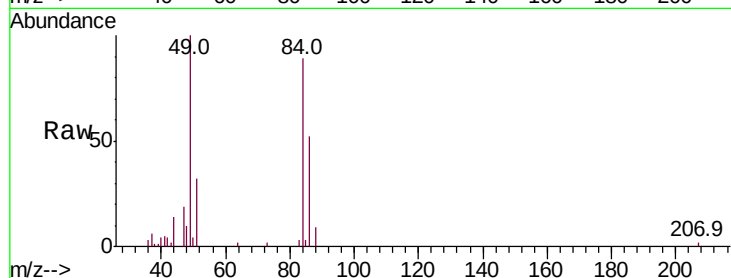
Ion Ratio Lower Upper

84 100

49 112.8 86.8 130.2

51 36.0 27.3 40.9

86 58.2 50.6 76.0



#25

2-Butanone

Concen: 1.064 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX019255.D

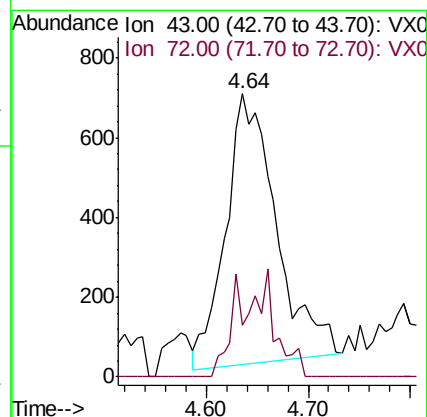
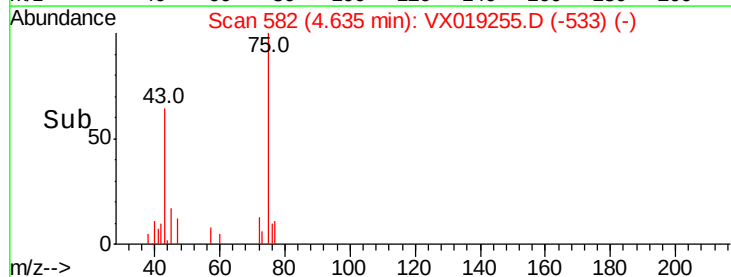
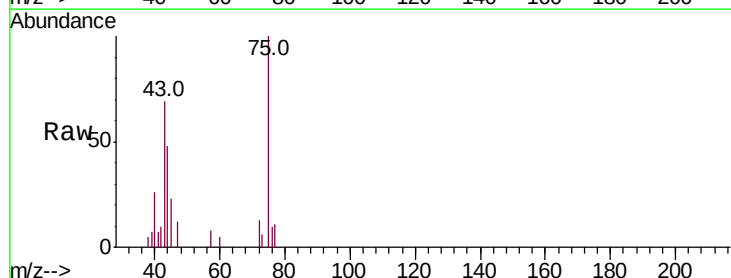
Acq: 03 Nov 2020 23:45

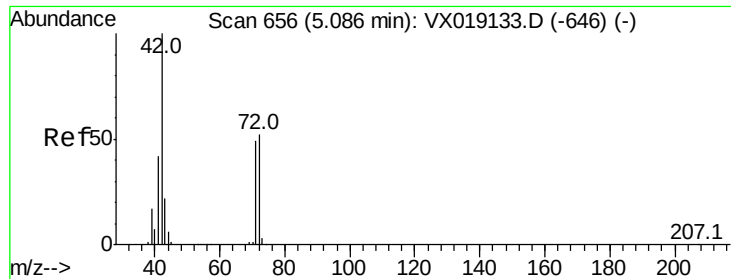
Tgt Ion: 43 Resp: 2330

Ion Ratio Lower Upper

43 100

72 20.0 24.6 36.8#





#29

Tetrahydrofuran

Concen: 1.131 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

PB132784ZHE#05

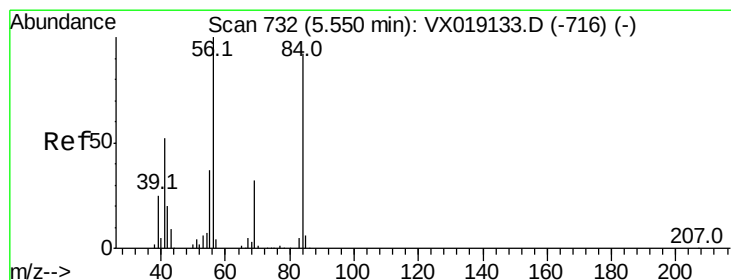
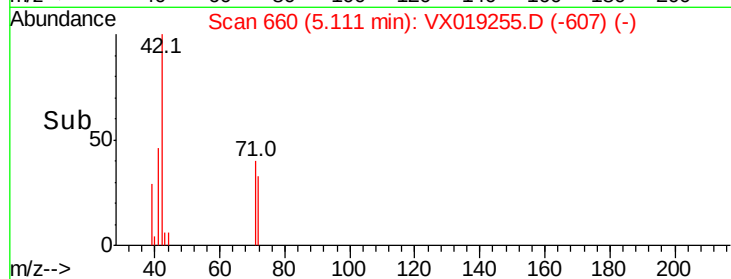
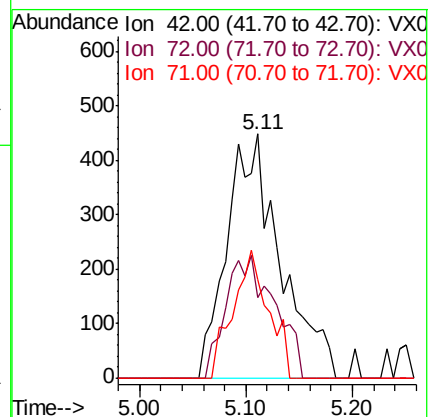
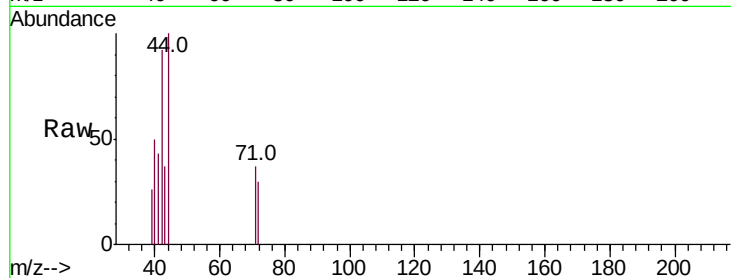
Tot Ion: 42 Resp: 1560

Ion Ratio Lower Upper

42 100

72 45.9 42.6 63.8

71 34.9 39.7 59.5#



#31

Cyclohexane

Concen: 1.358 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

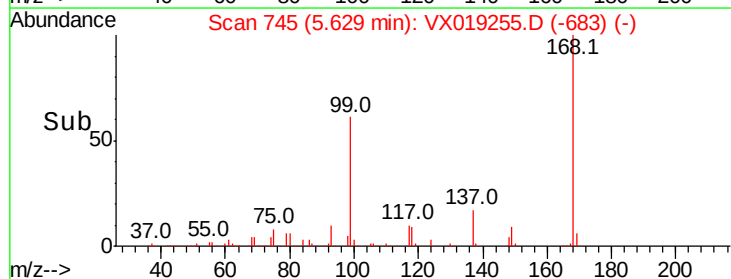
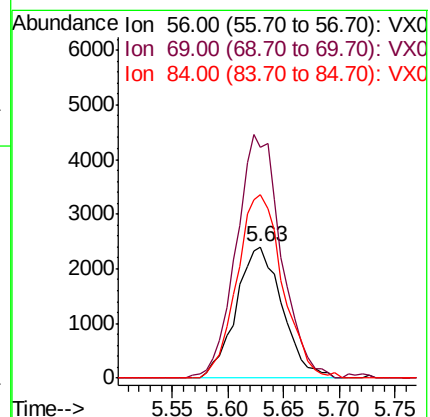
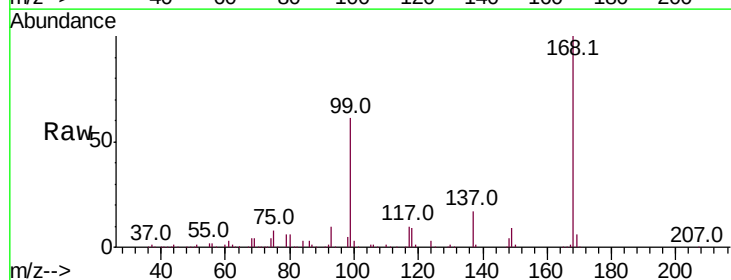
Tgt Ion: 56 Resp: 6912

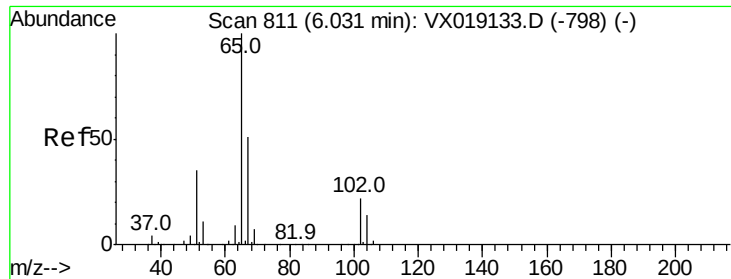
Ion Ratio Lower Upper

56 100

69 175.5 25.9 38.9#

84 139.9 73.4 110.2#





#33

1,2-Dichloroethane-d4

Concen: 53.642 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

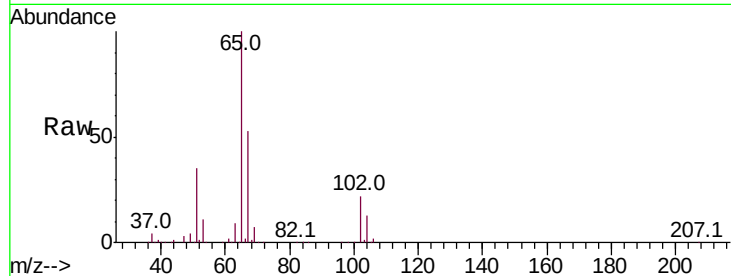
PB132784ZHE#05

Tot Ion: 65 Resp: 215999

Ion Ratio Lower Upper

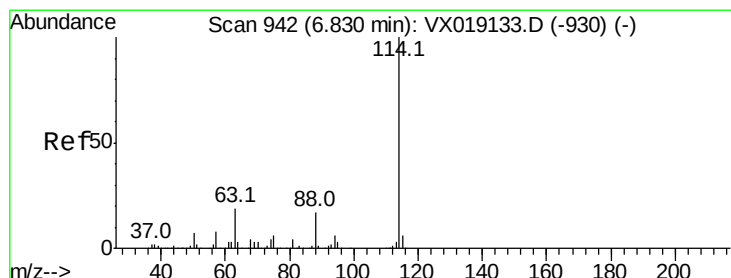
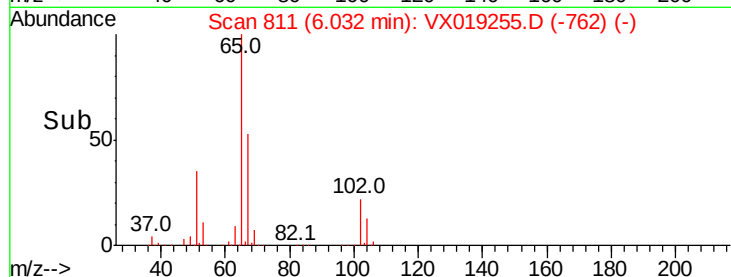
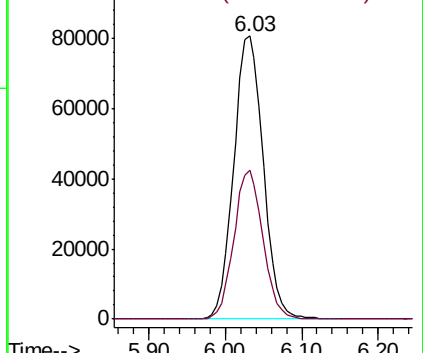
65 100

67 51.7 0.0 103.0



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: VX019255.D

Acq: 03 Nov 2020 23:45

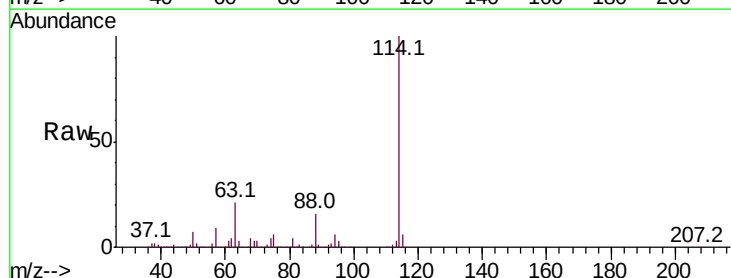
Tgt Ion: 114 Resp: 559743

Ion Ratio Lower Upper

114 100

63 20.6 0.0 38.8

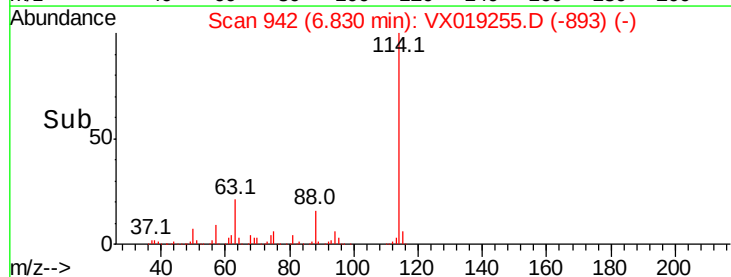
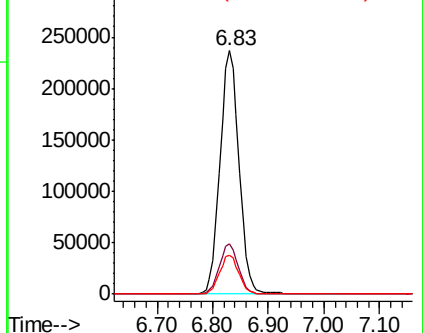
88 16.0 0.0 34.2

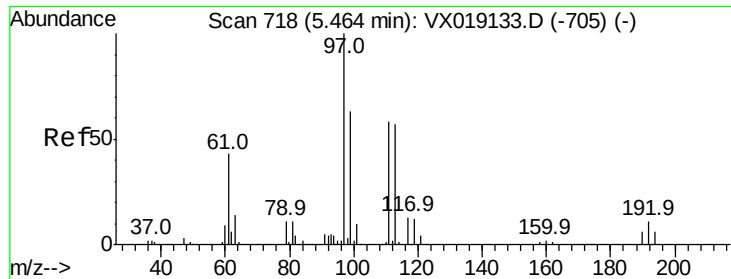


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

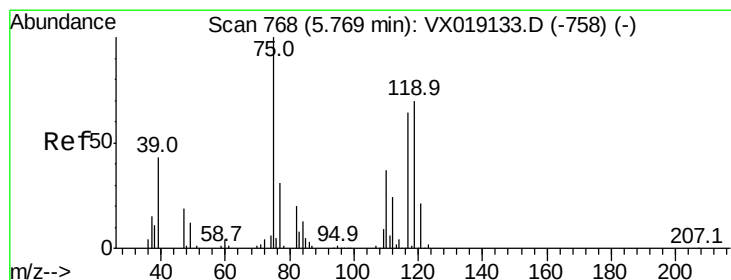
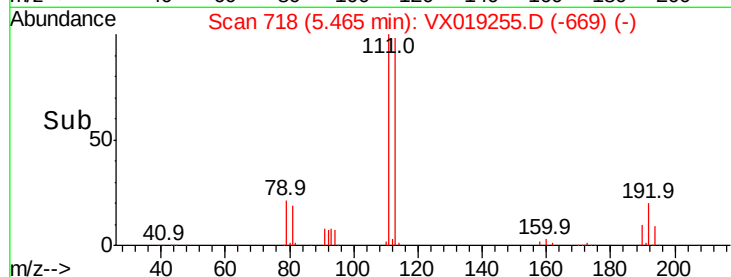
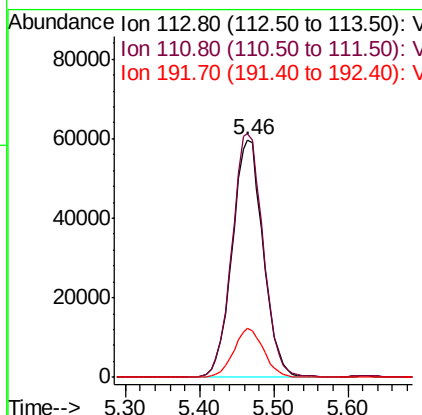
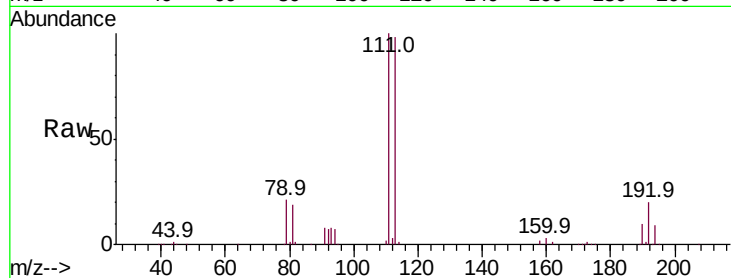




#35
 Dibromofluoromethane
 Concen: 49.459 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX019255.D
 Acq: 03 Nov 2020 23:45

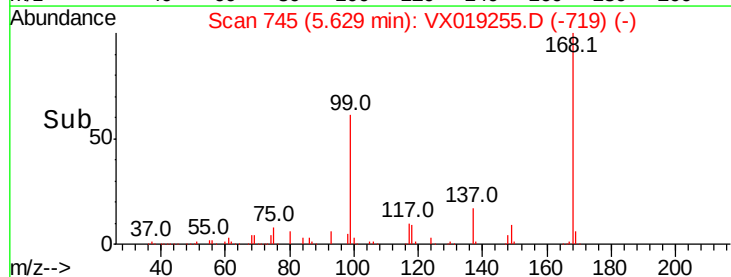
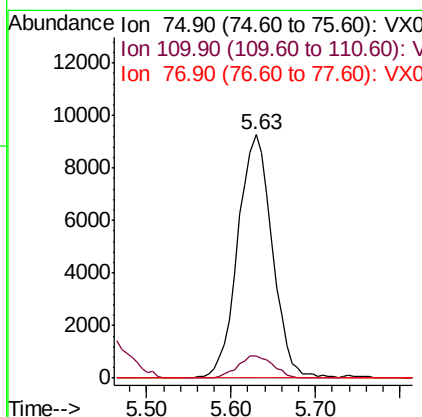
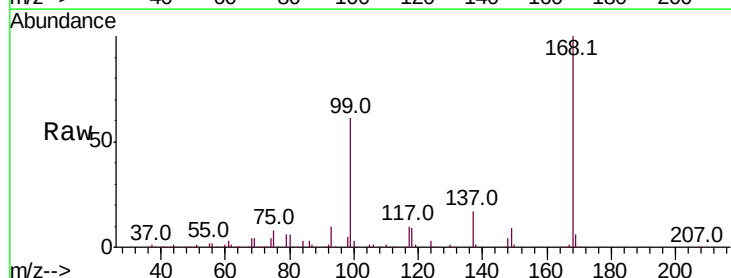
Instrument :
 MSVOA_X
 ClientSampleId :
 PB132784ZHE#05

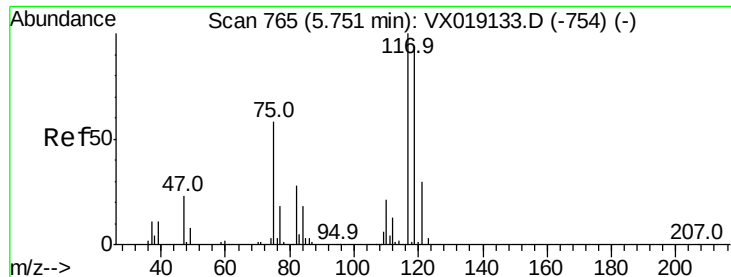
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.3	123.5
192	20.1	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019255.D
 Acq: 03 Nov 2020 23:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.242 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

PB132784ZHE#05

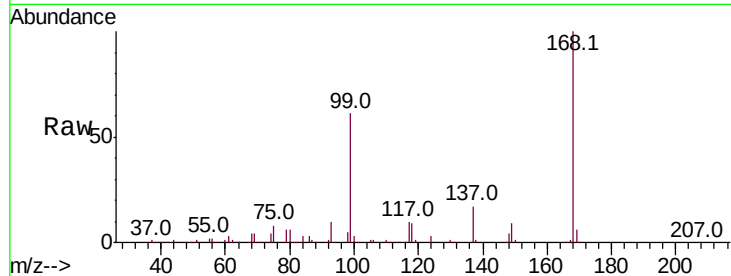
Tot Ion:117 Resp: 32887

Ion Ratio Lower Upper

117 100

119 5.5 75.0 112.6#

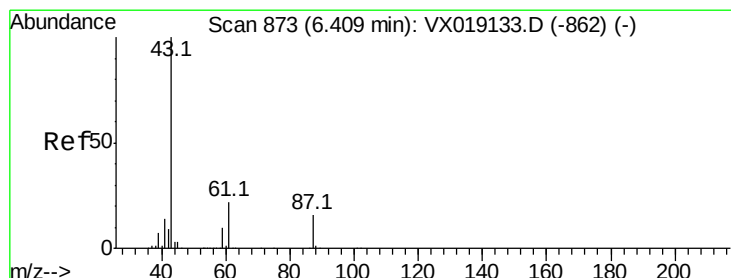
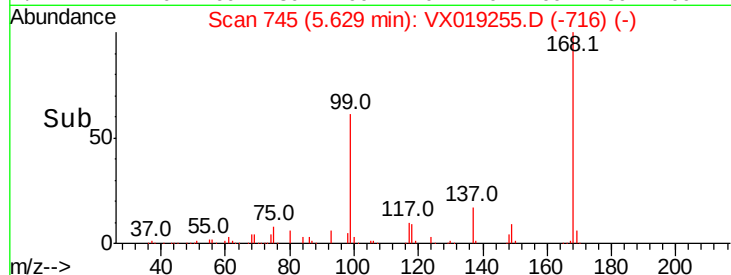
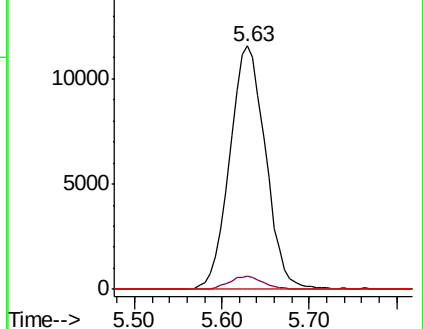
121 0.0 23.9 35.9#



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: 9.372 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.00 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

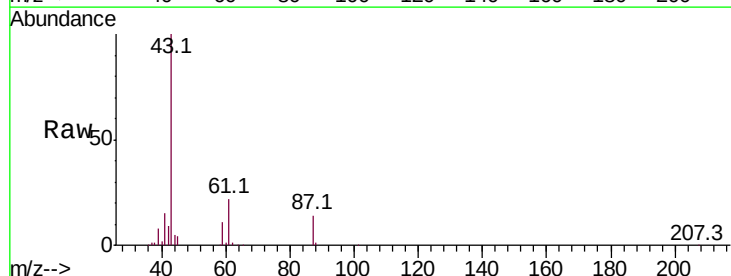
Tgt Ion: 43 Resp: 75308

Ion Ratio Lower Upper

43 100

61 21.1 17.8 26.6

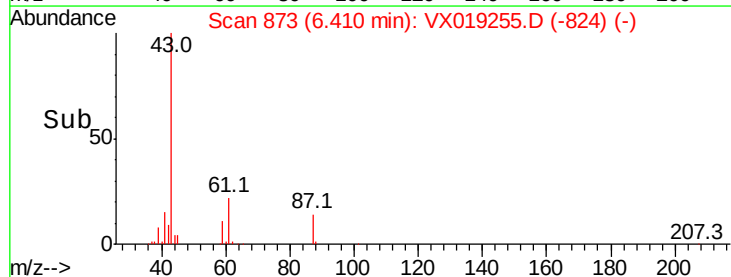
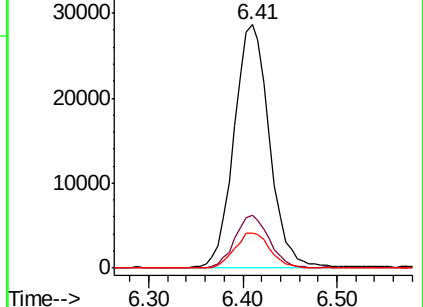
87 14.5 12.6 19.0

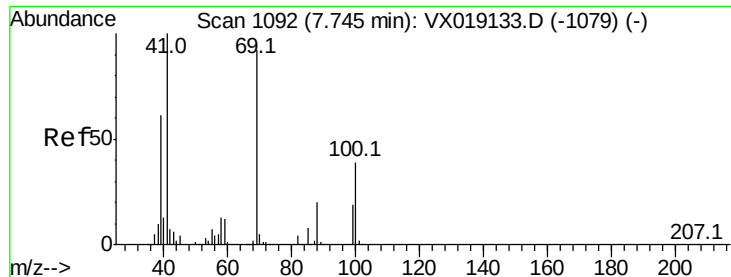


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

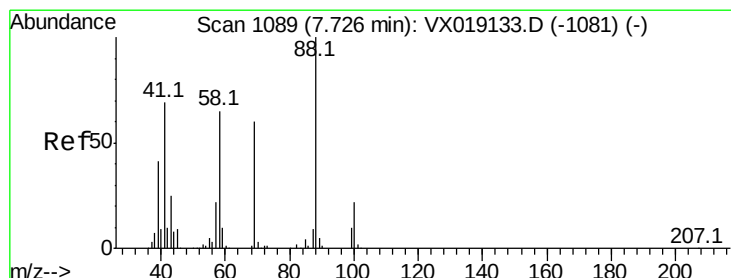
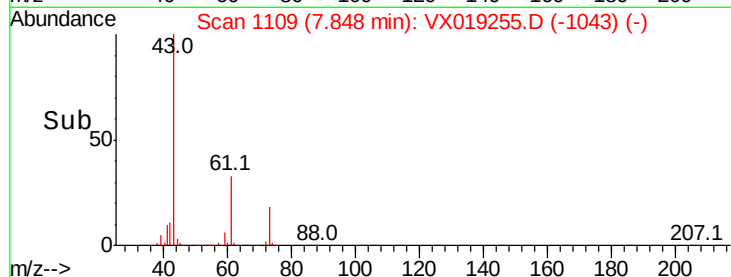
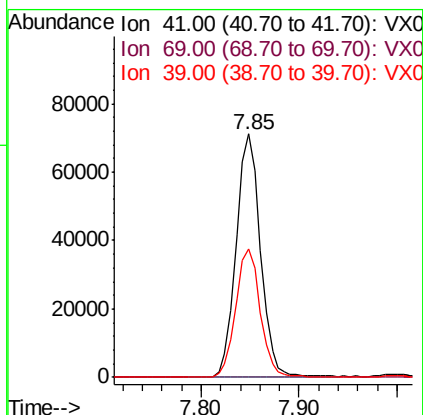
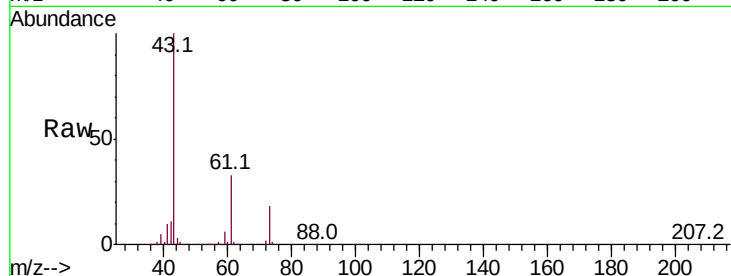




#48
Methvl methacrylate
Concen: 31.761 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX019255.D
Acq: 03 Nov 2020 23:45

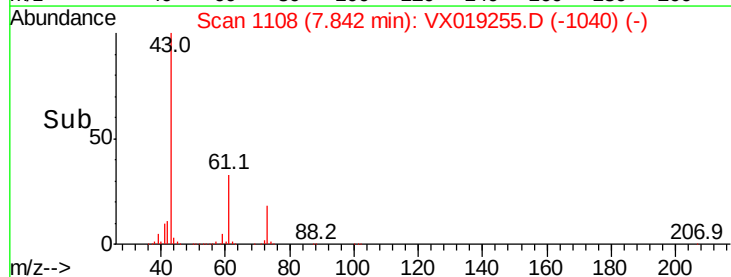
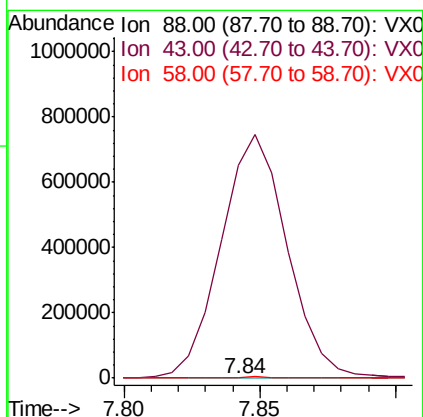
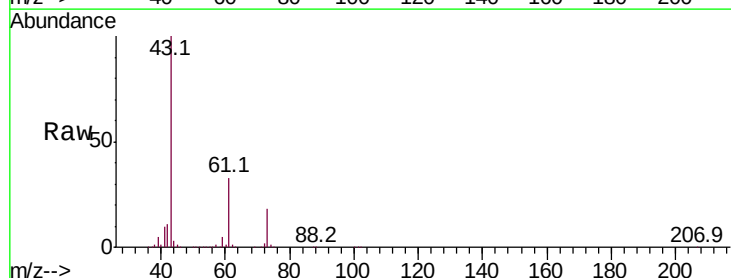
Instrument :
MSVOA_X
ClientSampleId :
PB132784ZHE#05

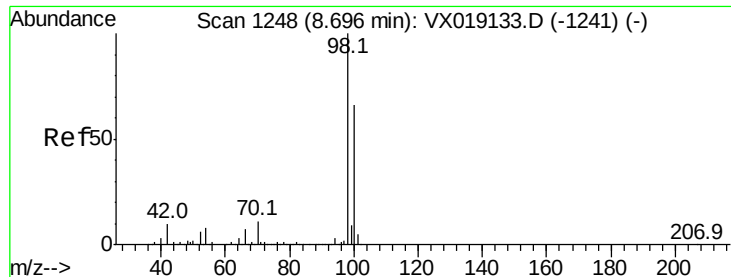
Tot Ion: 41 Resp: 122840
Ion Ratio Lower Upper
41 100
69 0.2 75.5 113.3#
39 53.5 48.9 73.3



#49
1,4-Dioxane
Concen: 3.186 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.12 min
Lab File: VX019255.D
Acq: 03 Nov 2020 23:45

Tgt Ion: 88 Resp: 274
Ion Ratio Lower Upper
88 100
43 463510.2 23.0 34.6#
58 2163.5 52.2 78.2#





#50

Toluene-d8

Concen: 53.054 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

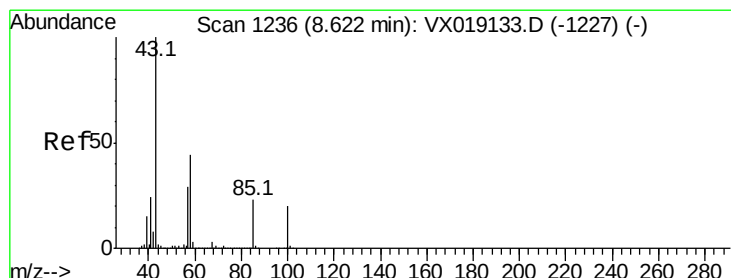
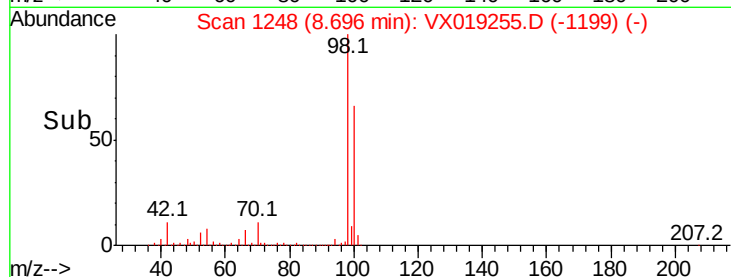
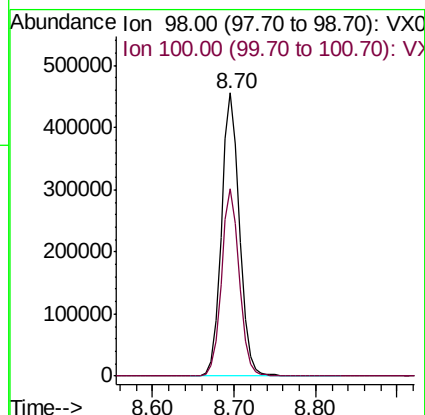
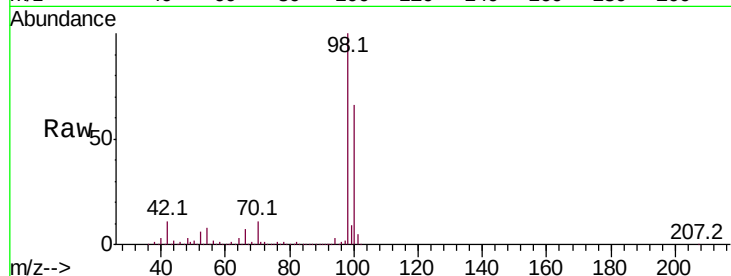
PB132784ZHE#05

Tot Ion: 98 Resp: 703170

Ion Ratio Lower Upper

98 100

100 65.7 53.0 79.6



#51

4-Methyl-2-Pentanone

Concen: 16.129 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019255.D

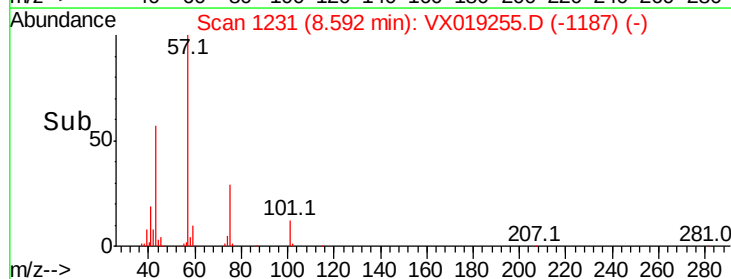
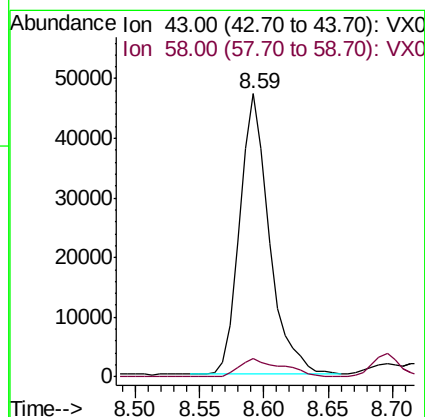
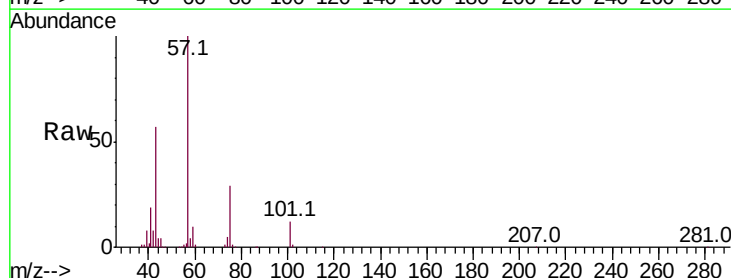
Acq: 03 Nov 2020 23:45

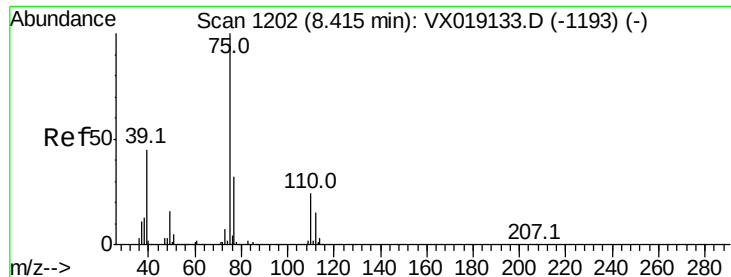
Tgt Ion: 43 Resp: 74494

Ion Ratio Lower Upper

43 100

58 9.8 35.0 52.4#



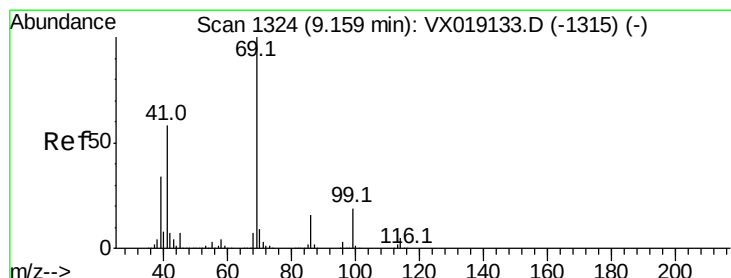
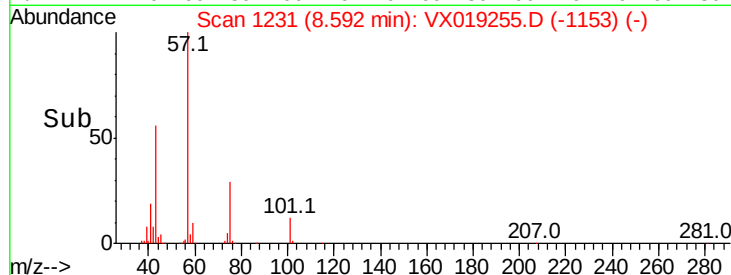
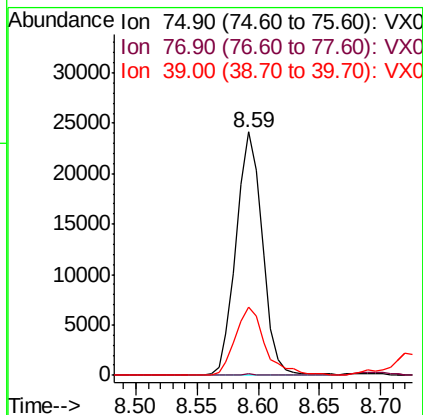
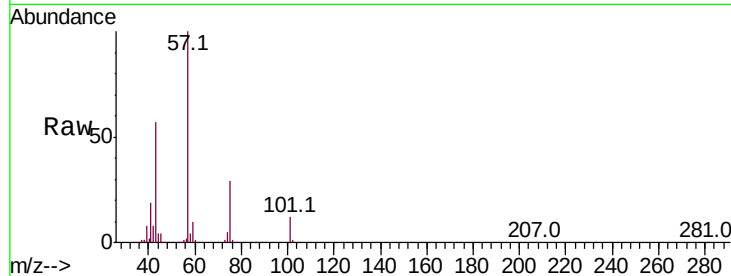


#54

cis-1,3-Dichloropropene
Concen: 5.728 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. 0.18 min
Lab File: VX019255.D
Acq: 03 Nov 2020 23:45

Instrument :
MSVOA_X
ClientSampleId :
PB132784ZHE#05

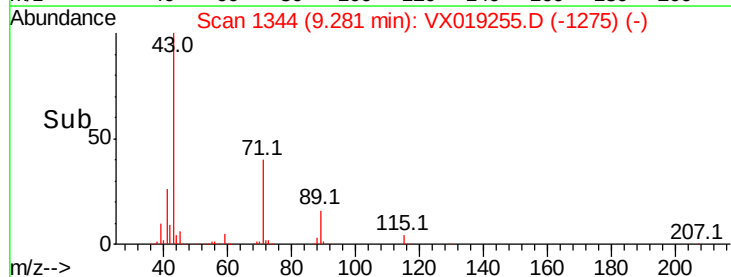
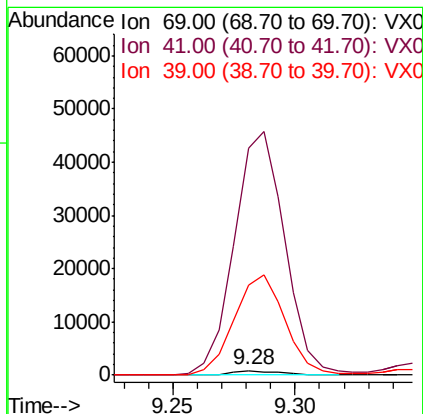
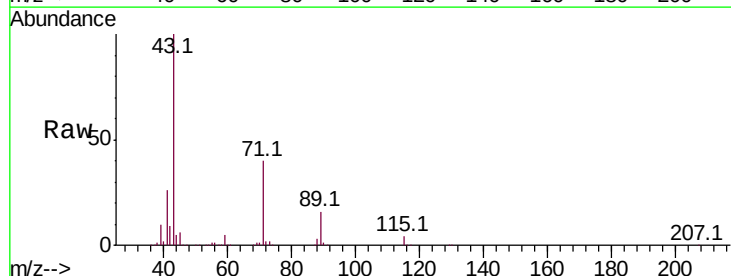
Tot Ion: 75 Resp: 35996
Ion Ratio Lower Upper
75 100
77 0.6 25.5 38.3#
39 28.2 36.2 54.2#

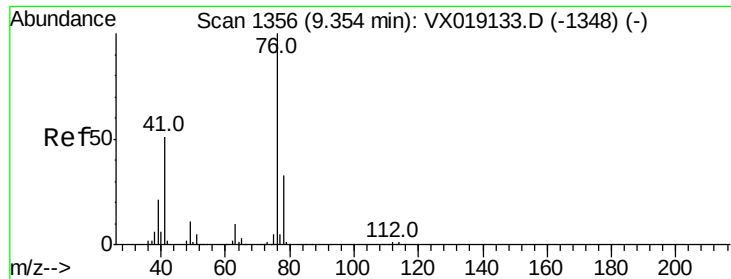


#56

Ethyl methacrylate
Concen: 0.216 ug/l
RT: 9.28 min Scan# 1344
Delta R.T. 0.12 min
Lab File: VX019255.D
Acq: 03 Nov 2020 23:45

Tgt Ion: 69 Resp: 1214
Ion Ratio Lower Upper
69 100
41 5433.8 46.5 69.7#
39 2256.6 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.008 ug/l

RT: 9.52 min Scan# 1383

Delta R.T. 0.16 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

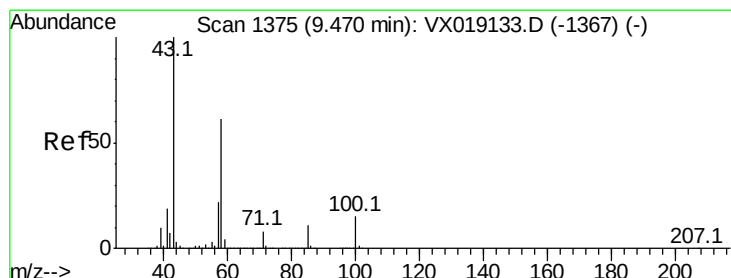
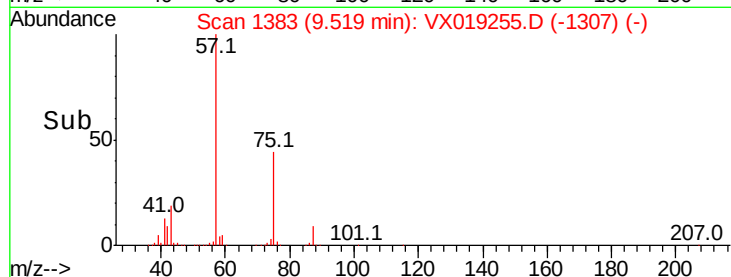
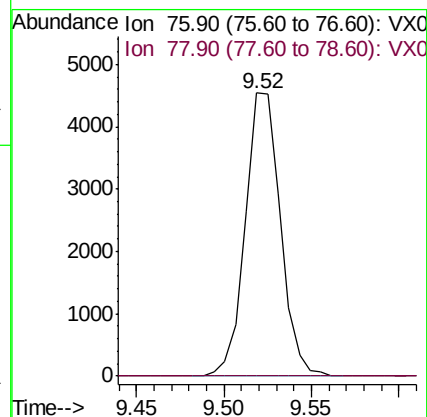
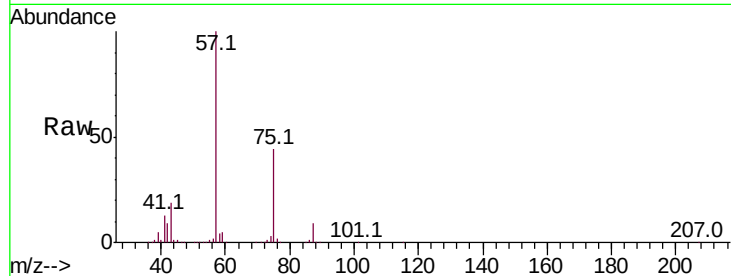
PB132784ZHE#05

Tot Ion: 76 Resp: 6340

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 22.574 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019255.D

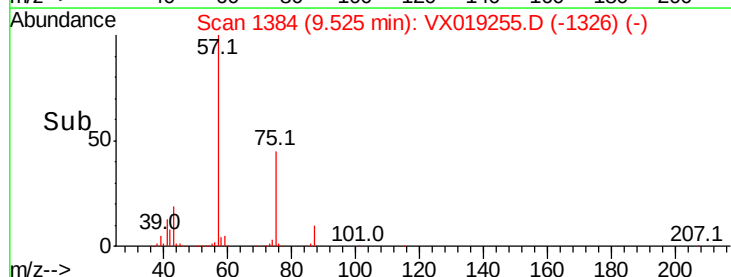
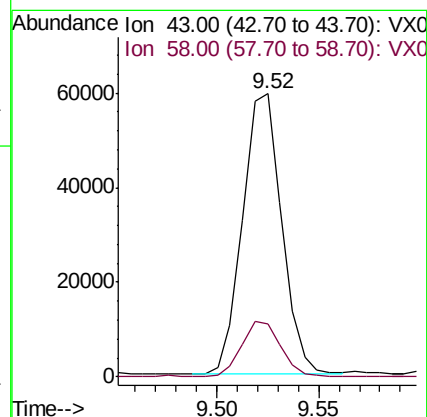
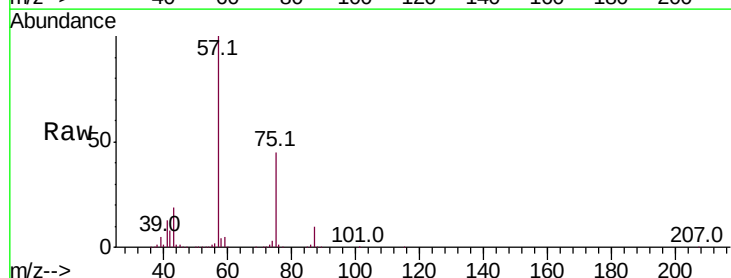
Acq: 03 Nov 2020 23:45

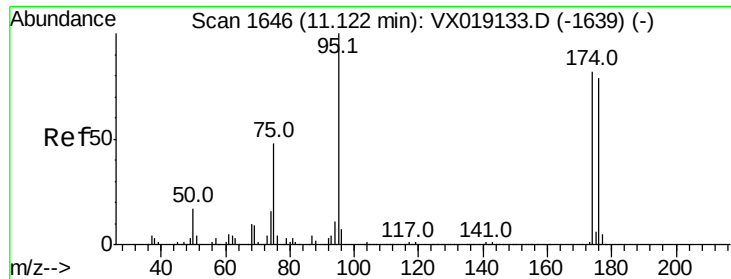
Tgt Ion: 43 Resp: 79363

Ion Ratio Lower Upper

43 100

58 19.7 30.5 91.5#

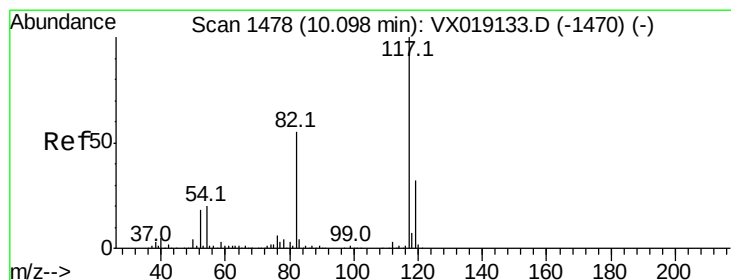
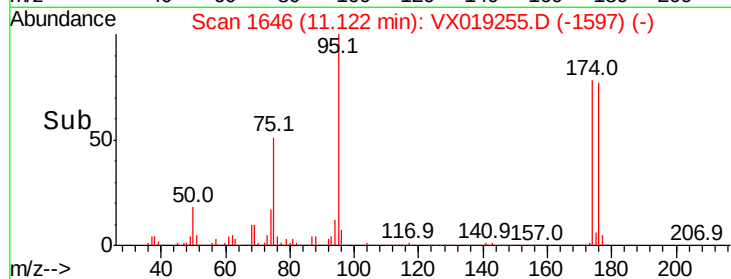
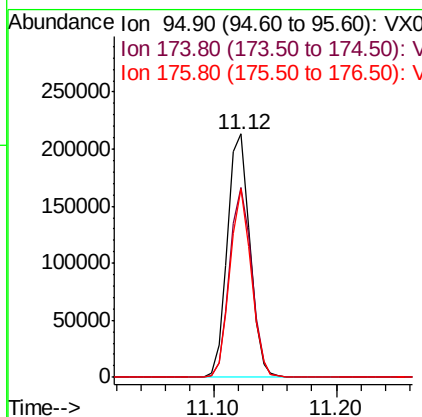
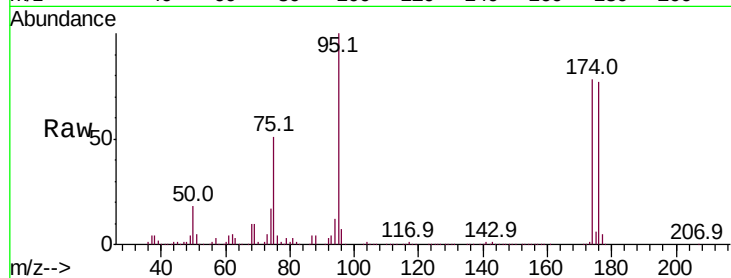




#62
4-Bromofluorobenzene
Concen: 54.041 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019255.D
Acq: 03 Nov 2020 23:45

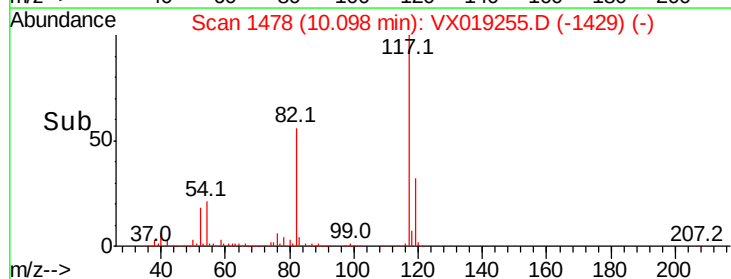
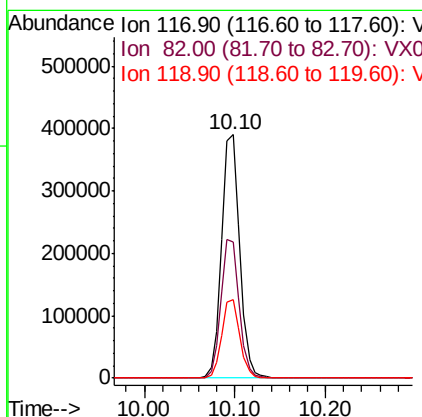
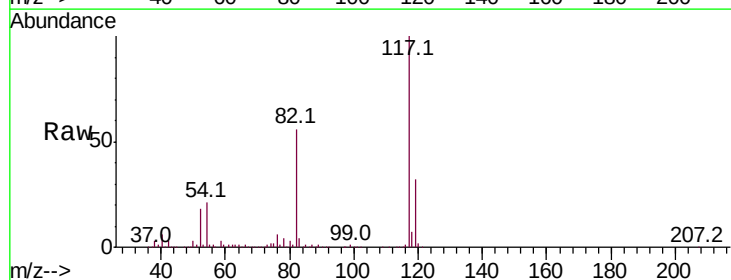
Instrument :
MSVOA_X
ClientSampleId :
PB132784ZHE#05

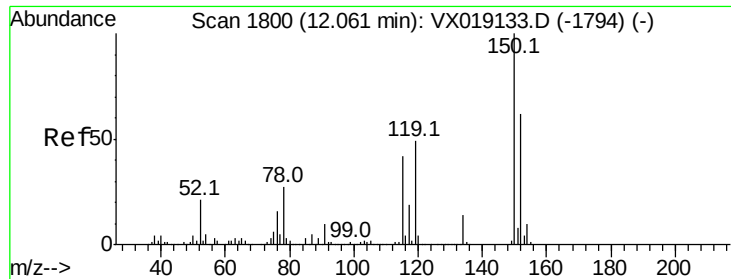
Tot Ion: 95 Resp: 271248
Ion Ratio Lower Upper
95 100
174 77.1 0.0 156.0
176 73.7 0.0 149.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019255.D
Acq: 03 Nov 2020 23:45

Tgt Ion: 117 Resp: 544848
Ion Ratio Lower Upper
117 100
82 55.9 43.6 65.4
119 32.4 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: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

PB132784ZHE#05

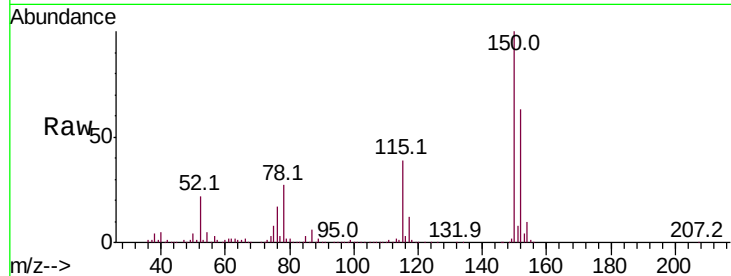
Tot Ion:152 Resp: 284006

Ion Ratio Lower Upper

152 100

115 60.5 41.9 125.7

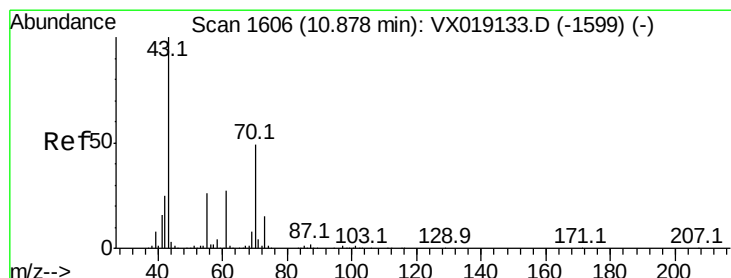
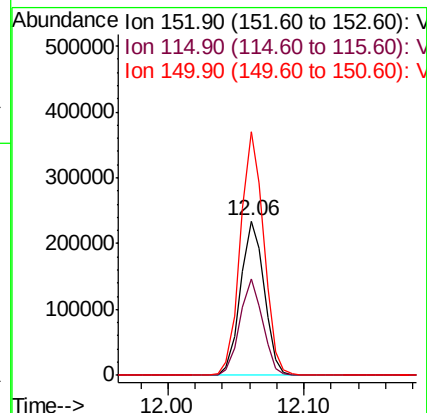
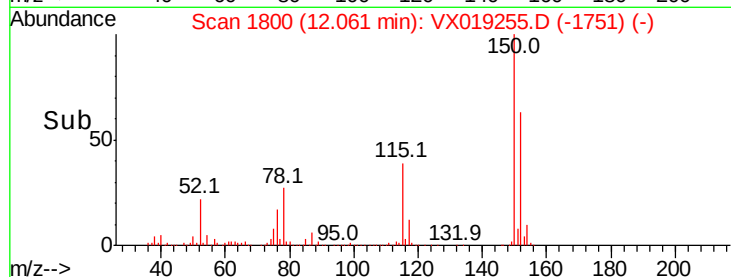
150 156.1 0.0 347.8



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: 0.420 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Tgt Ion: 43 Resp: 3086

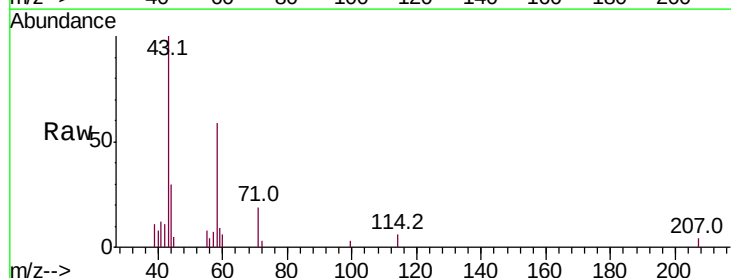
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 11.9 20.7 31.1#

61 0.0 21.9 32.9#

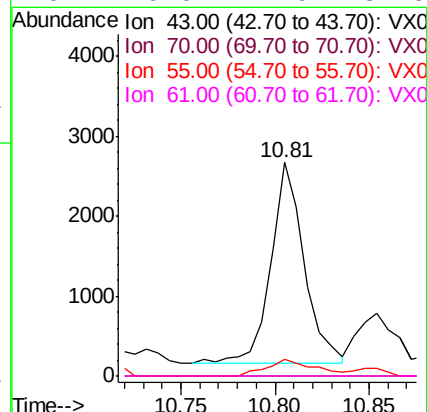
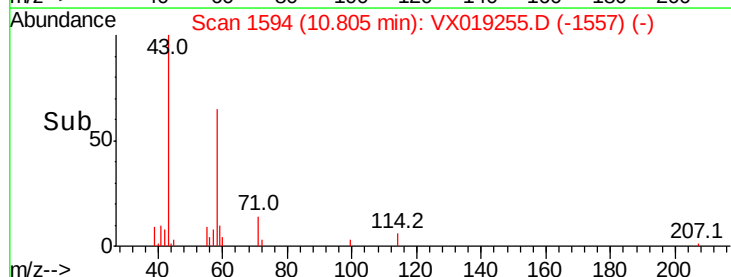


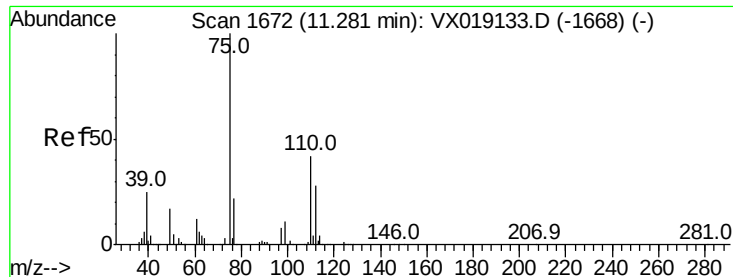
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 23.660 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Instrument :

MSVOA_X

ClientSampleId :

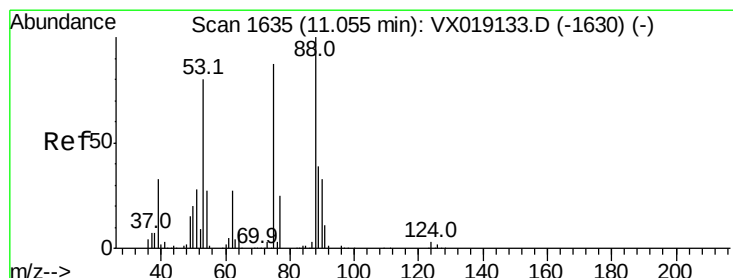
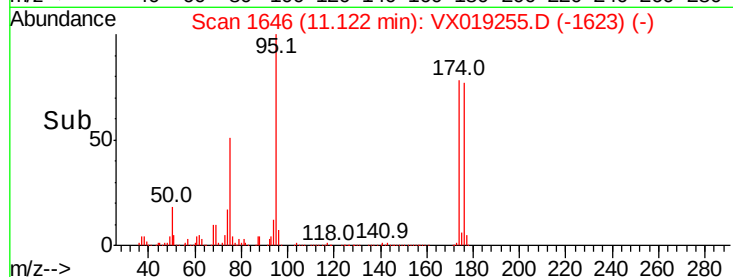
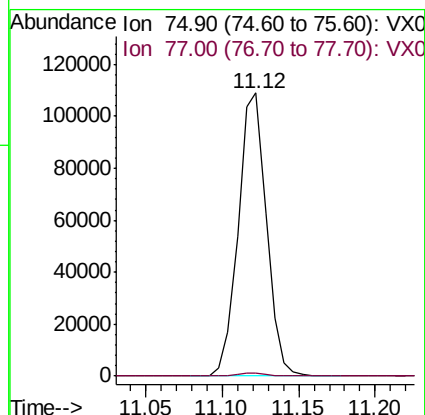
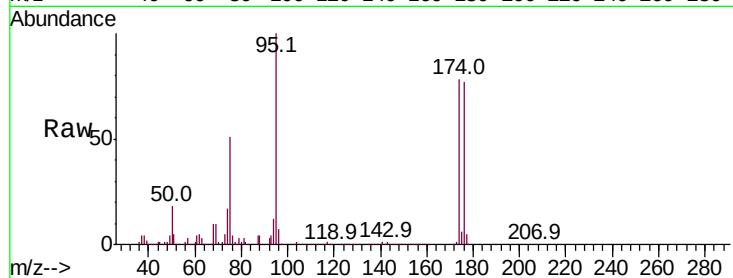
PB132784ZHE#05

Tot Ion: 75 Resp: 138746

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.297 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019255.D

Acq: 03 Nov 2020 23:45

Tgt Ion: 75 Resp: 138746

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

