

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083120\
 Data File : VX018167.D
 Acq On : 31 Aug 2020 23:53
 Operator : JC/SP
 Sample : PB131284TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131284TB

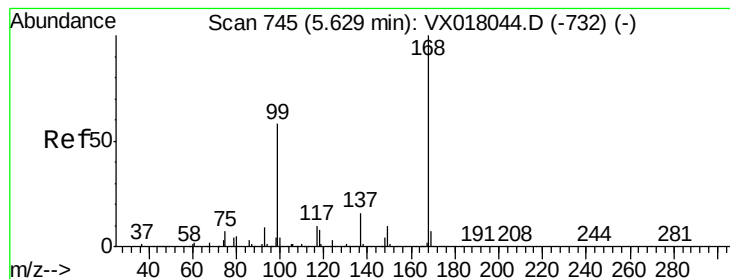
Quant Time: Sep 01 05:42:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	460026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	754698	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	725670	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	352621	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	333072	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	
35) Dibromofluoromethane	5.47	113	257455	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
50) Toluene-d8	8.70	98	934332	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
62) 4-Bromofluorobenzene	11.12	95	354445	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.50	142	1009	5.481	ug/l	90
11) Tert butyl alcohol	3.03	59	880	0.709	ug/l #	72
13) Acrolein	2.26	56	481	0.934	ug/l	93
15) Acrylonitrile	3.11	53	1058	0.376	ug/l #	26
16) Acetone	2.42	43	39676	15.944	ug/l	96
17) Carbon Disulfide	2.56	76	3341	0.246	ug/l	99
18) Methyl Acetate	2.75	43	8241	1.372	ug/l #	81
20) Methylene Chloride	2.84	84	12092	1.238	ug/l	92
25) 2-Butanone	4.65	43	11579	2.831	ug/l #	83
36) 1,1-Dichloropropene	5.63	75	35563	5.109	ug/l #	54
37) Ethyl Acetate	4.81	43	1644	0.203	ug/l #	69
38) Carbon Tetrachloride	5.63	117	46315	5.904	ug/l #	17
43) Isopropyl Acetate	6.42	43	129207	9.895	ug/l	98
48) Methyl methacrylate	7.65	41	6620	1.018	ug/l #	15
49) 1,4-Dioxane	7.70	88	130	1.104	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	127082	15.755	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	54029	5.945	ug/l #	59
59) 2-Hexanone	9.52	43	142409	23.218	ug/l #	51
74) N-amyl acetate	10.81	43	6055	0.549	ug/l #	61
76) 1,2,3-Trichloropropane	11.12	75	179821	22.924	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	13855	0.725	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	179821	61.914	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1636	0.231	ug/l #	75
94) Hexachlorobutadiene	13.76	225	575	0.206	ug/l #	58
96) 1,2,3-Trichlorobenzene	14.01	180	1566	0.224	ug/l	96

(#) = 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: VX018167.D

Acq: 31 Aug 2020 23:53

Instrument :

MSVOA_X

ClientSampleId :

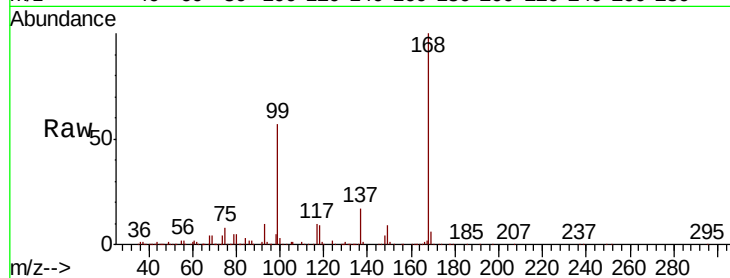
PB131284TB

Tot Ion:168 Resp: 460026

Ion Ratio Lower Upper

168 100

99 57.1 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

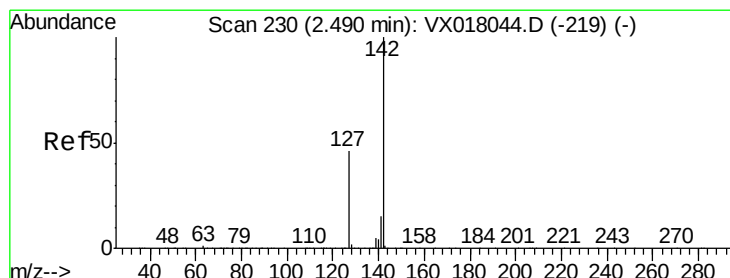
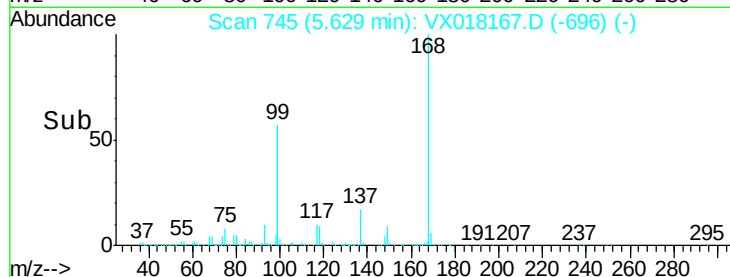
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 5.481 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

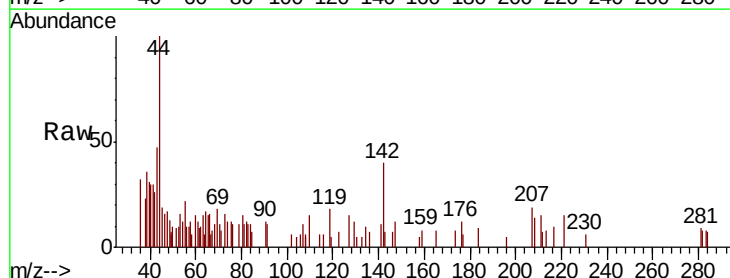
Tgt Ion:142 Resp: 1009

Ion Ratio Lower Upper

142 100

127 38.1 37.0 55.6

141 13.5 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.50

600

500

400

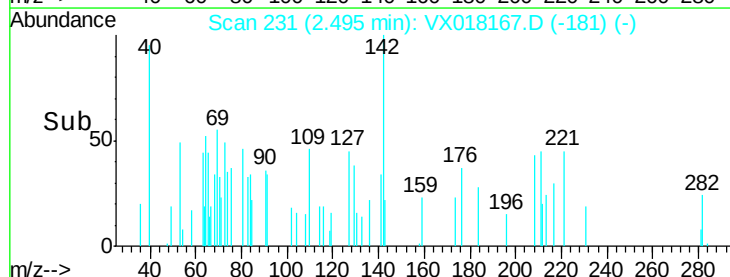
300

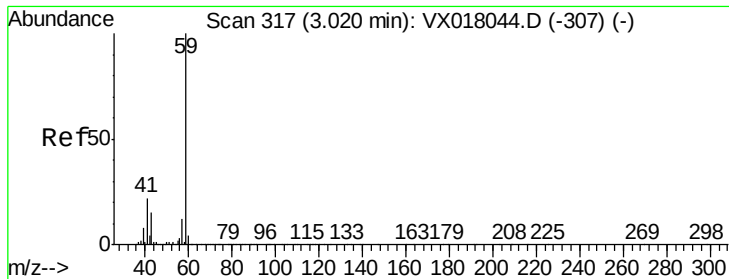
200

100

0

Time-->



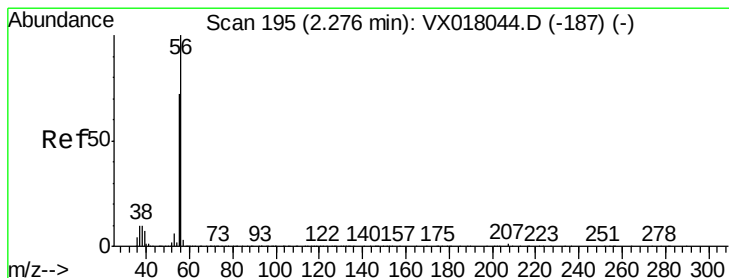
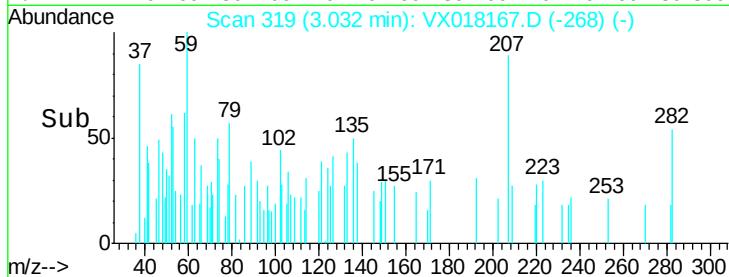
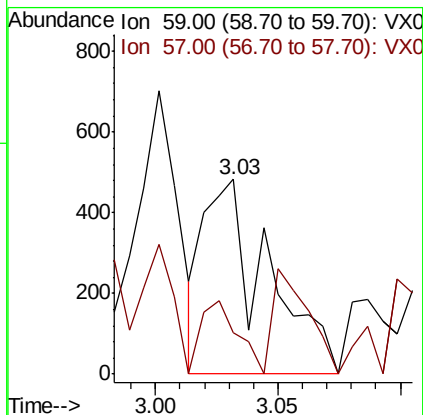
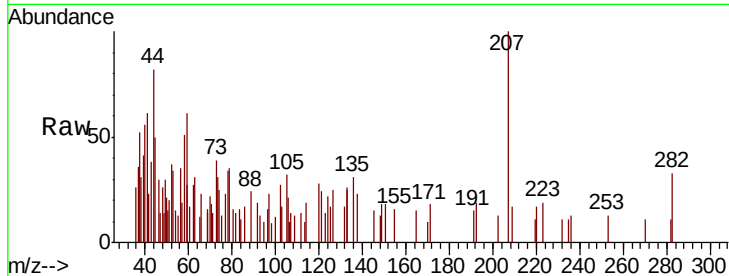


#11

Tert butyl alcohol
Concen: 0.709 ug/l
RT: 3.03 min Scan# 319
Delta R.T. 0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Instrument :
MSVOA_X
ClientSampled :
PB131284TB

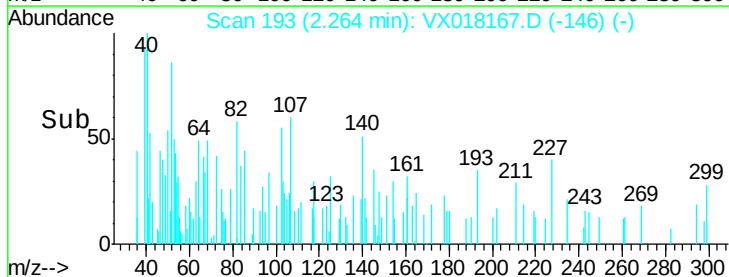
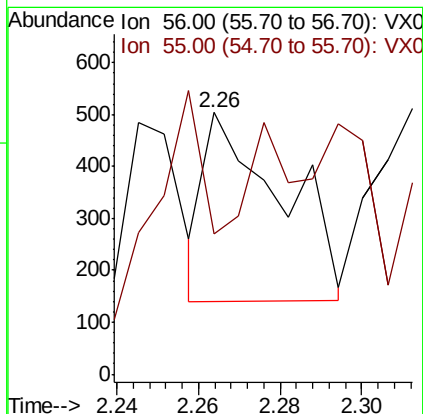
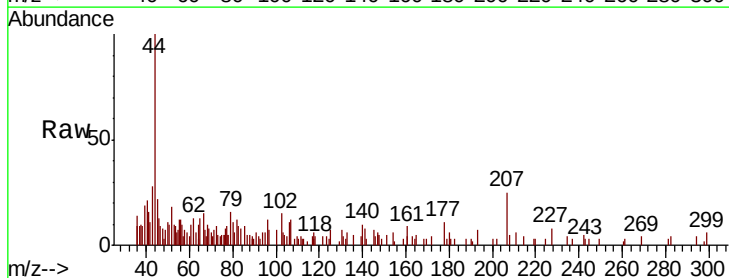
Tot Ion: 59 Resp: 880
Ion Ratio Lower Upper
59 100
57 21.6 8.9 13.3#

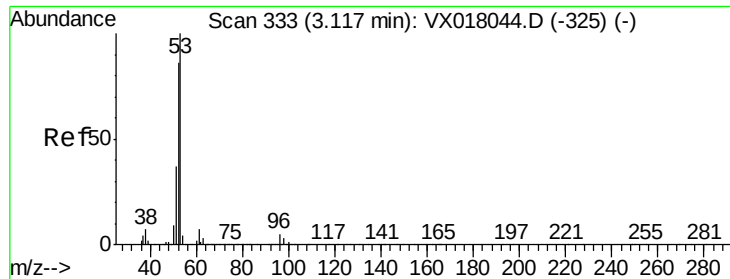


#13

Acrolein
Concen: 0.934 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion: 56 Resp: 481
Ion Ratio Lower Upper
56 100
55 76.7 57.0 85.6

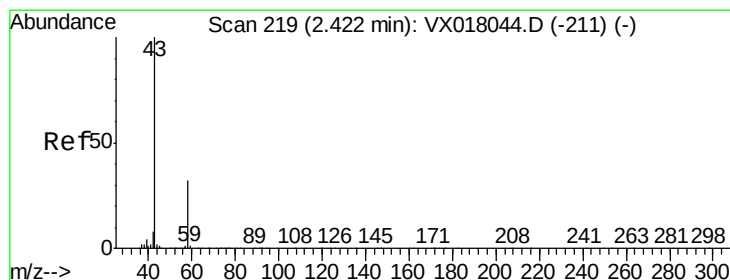
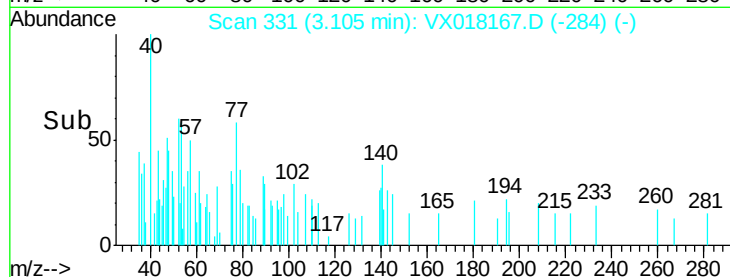
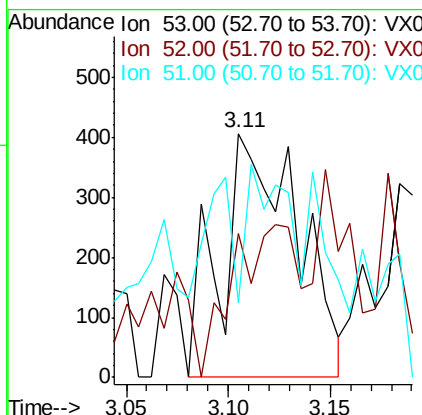
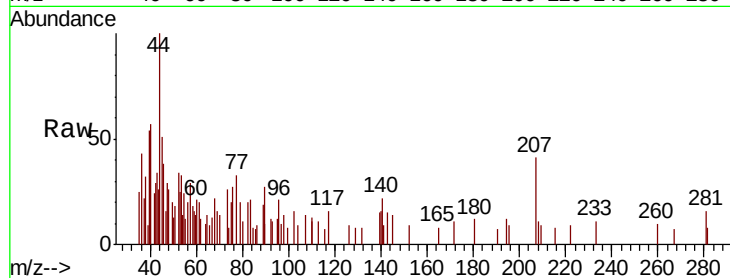




#15
 Acrylonitrile
 Concen: 0.376 ug/l
 RT: 3.11 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

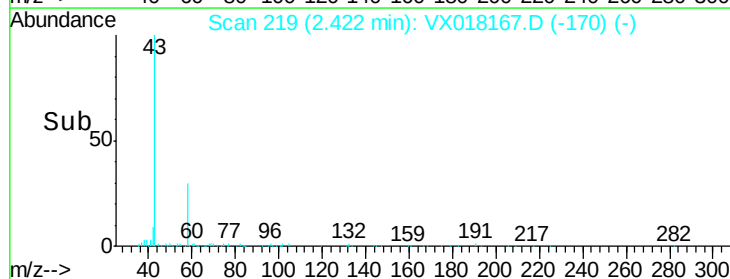
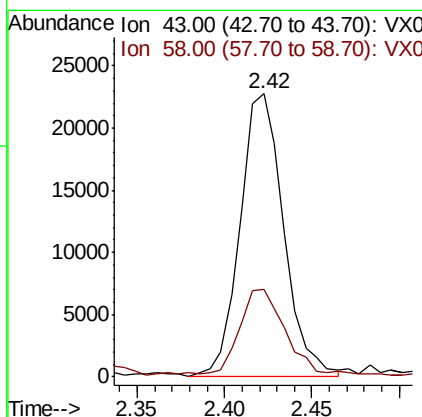
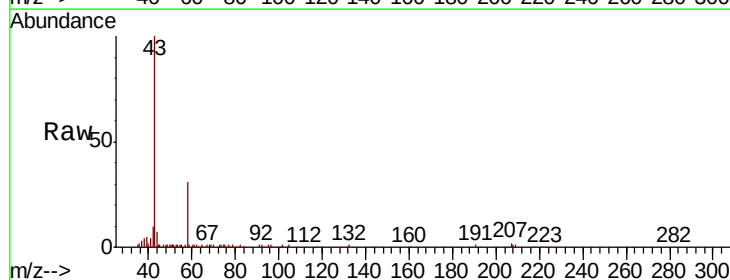
Instrument :
 MSVOA_X
 ClientSampleID :
 PB131284TB

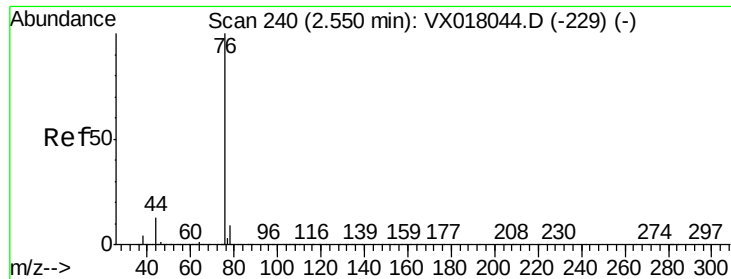
Tot Ion: 53 Resp: 1058
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.9 100.3#
 51 17.0 28.7 43.1#



#16
 Acetone
 Concen: 15.944 ug/l
 RT: 2.42 min Scan# 219
 Delta R.T. -0.00 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

Tgt Ion: 43 Resp: 39676
 Ion Ratio Lower Upper
 43 100
 58 29.5 25.5 38.3

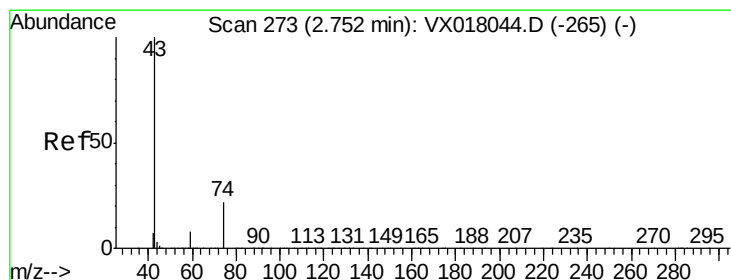
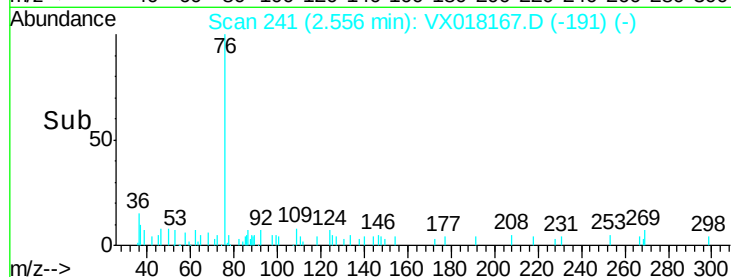
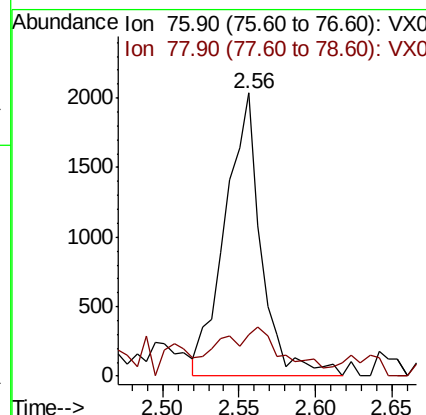
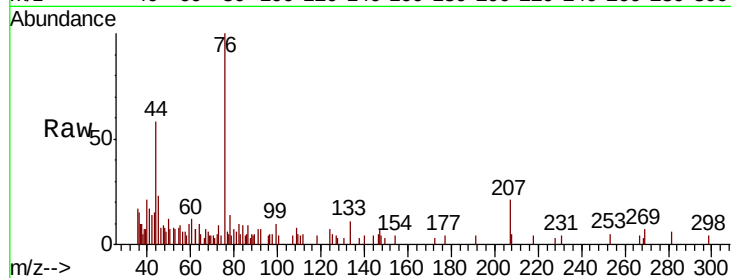




#17
Carbon Disulfide
Concen: 0.246 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

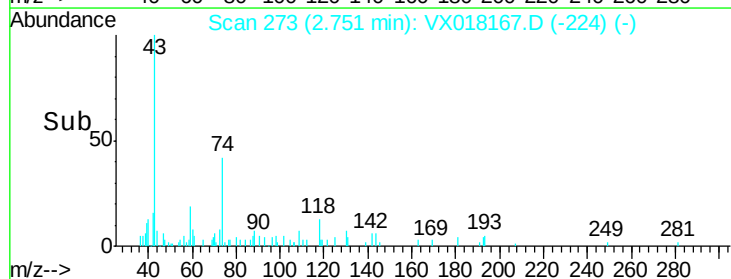
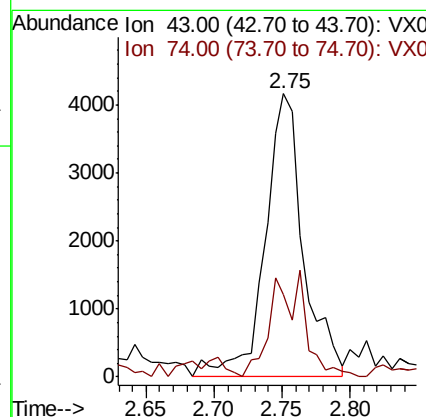
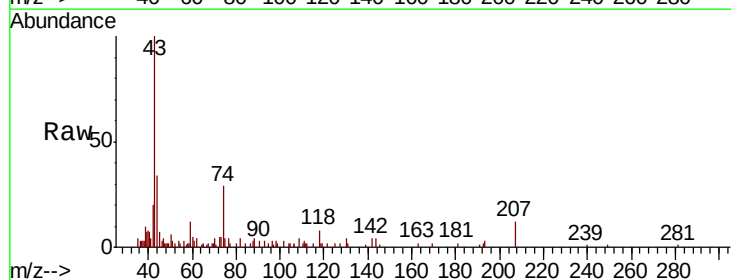
Instrument :
MSVOA_X
ClientSampleId :
PB131284TB

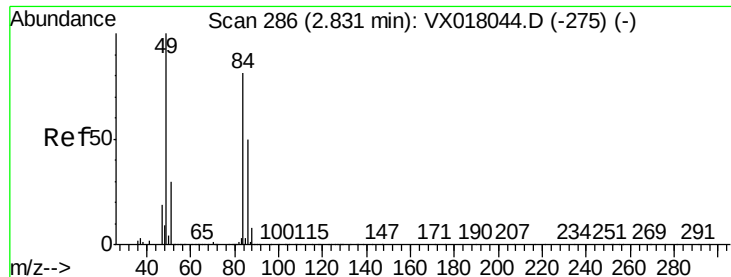
Tot Ion: 76 Resp: 3341
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.0



#18
Methyl Acetate
Concen: 1.372 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion: 43 Resp: 8241
Ion Ratio Lower Upper
43 100
74 32.1 18.2 27.4#



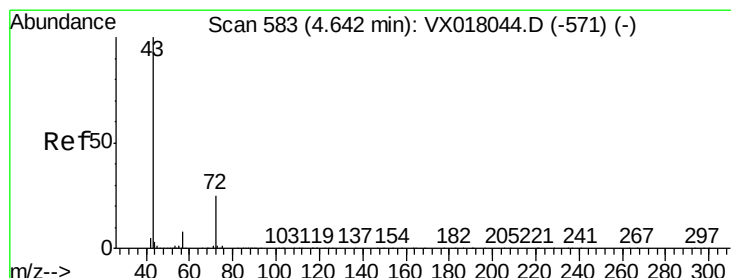
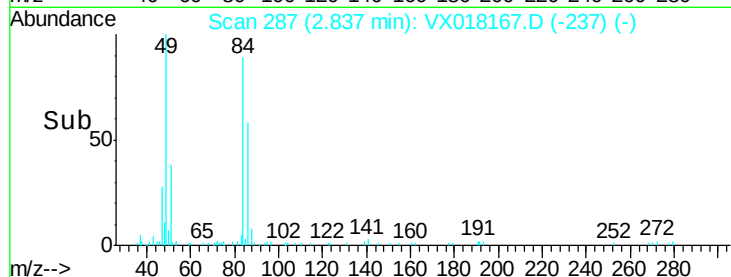
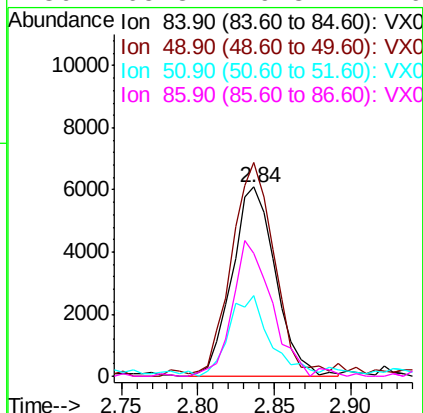
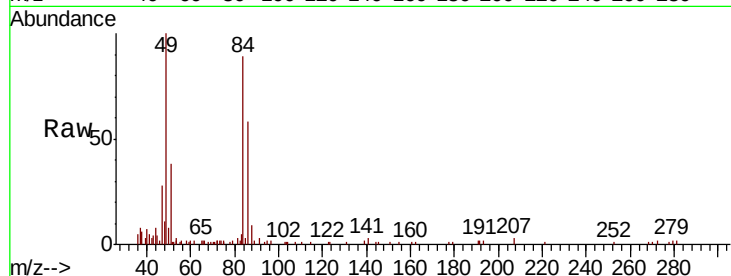


#20
Methylene Chloride
Concen: 1.238 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Instrument :
MSVOA_X
ClientSampleId :
PB131284TB

Tot Ion: 84 Resp: 12092

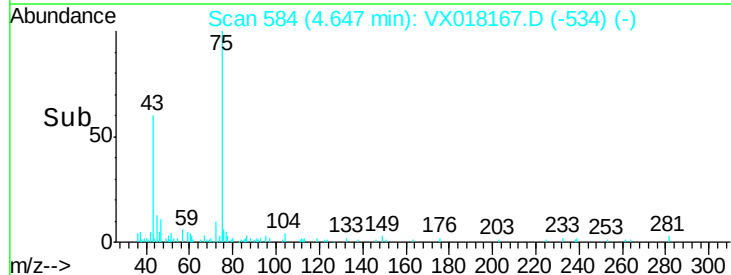
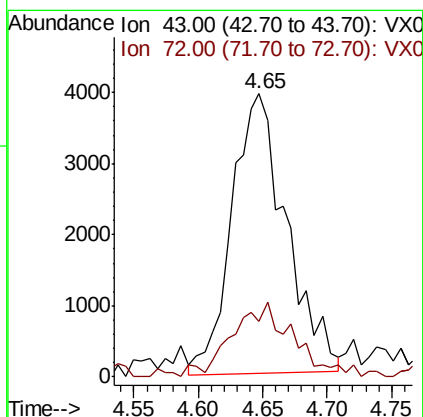
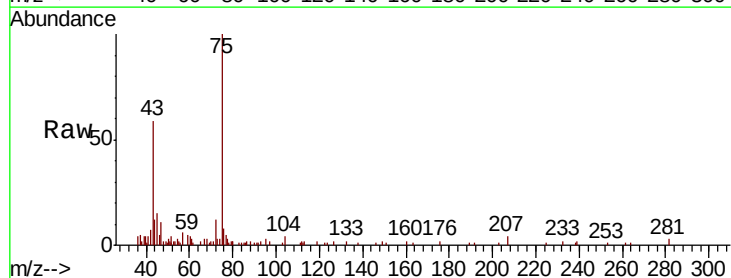
Ion	Ratio	Lower	Upper
84	100		
49	111.7	98.6	148.0
51	40.2	29.6	44.4
86	65.3	49.8	74.6

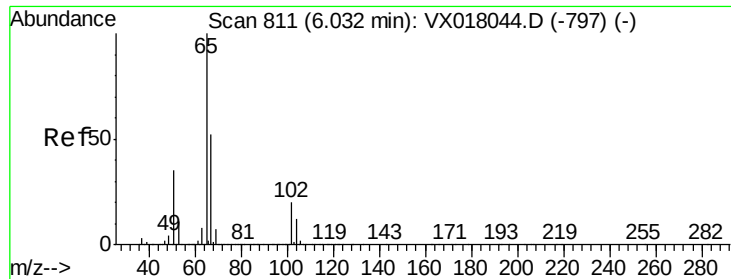


#25
2-Butanone
Concen: 2.831 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion: 43 Resp: 11579

Ion	Ratio	Lower	Upper
43	100		
72	16.0	19.8	29.6#

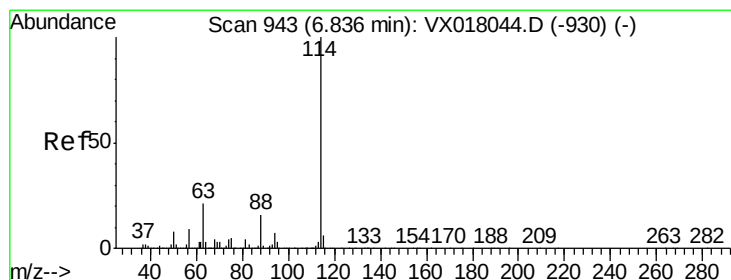
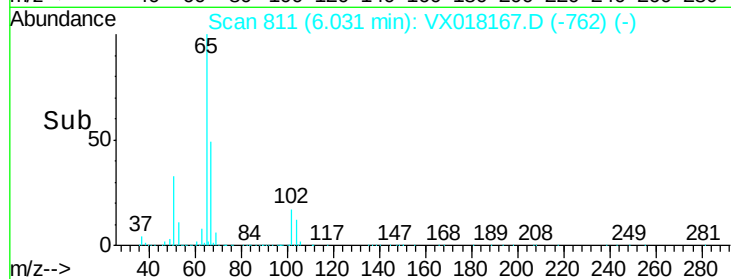
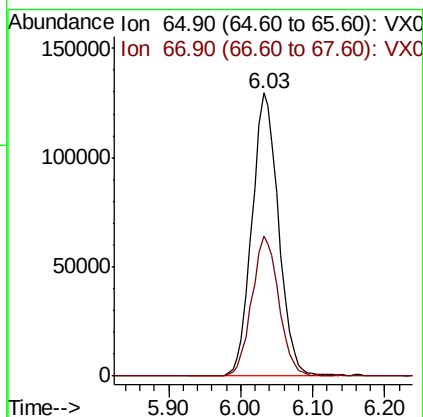
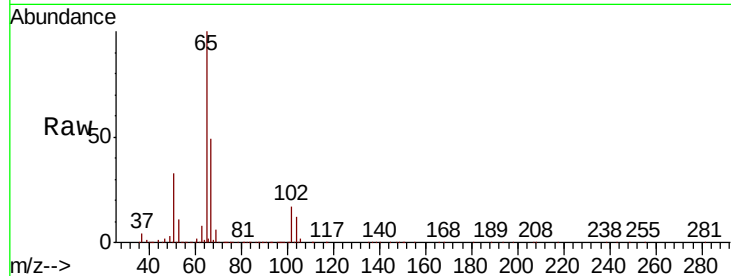




#33
 1,2-Dichloroethane-d4
 Concen: 52.154 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

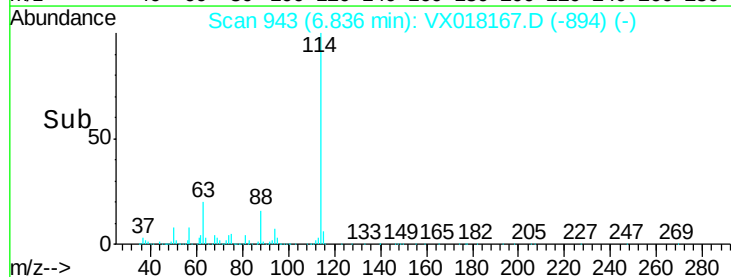
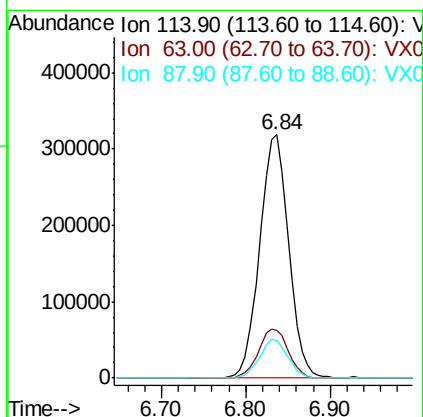
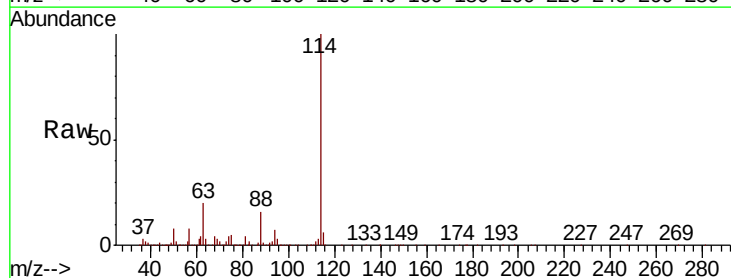
Instrument :
 MSVOA_X
 ClientSampled :
 PB131284TB

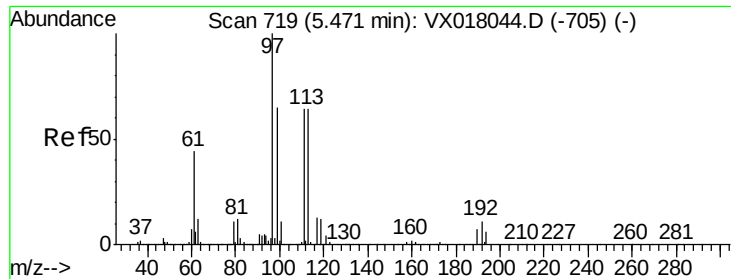
Tot Ion: 65 Resp: 333072
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

Tgt Ion: 114 Resp: 754698
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.6
 88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.090 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

Instrument :

MSVOA_X

ClientSampleId :

PB131284TB

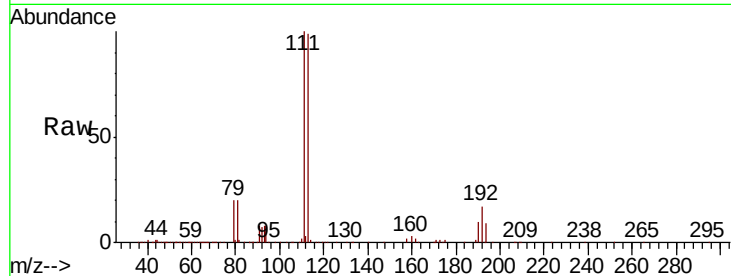
Tot Ion:113 Resp: 257455

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

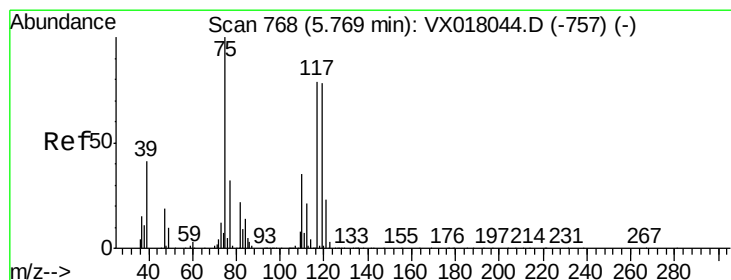
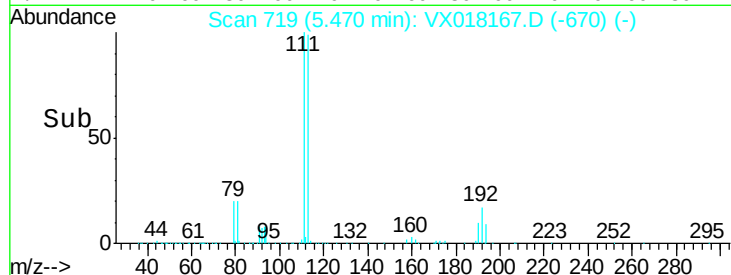
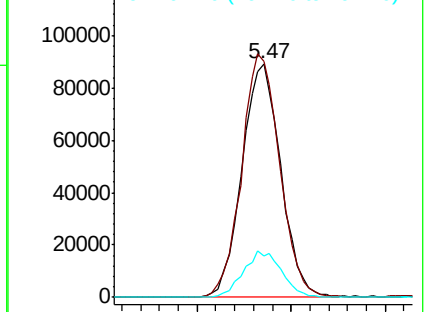
192 19.7 15.8 23.8



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: 5.109 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

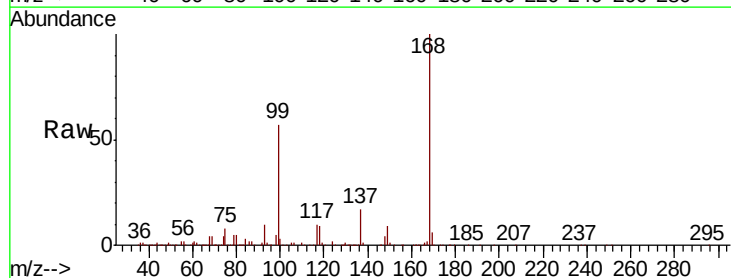
Tgt Ion: 75 Resp: 35563

Ion Ratio Lower Upper

75 100

110 12.5 18.0 54.0#

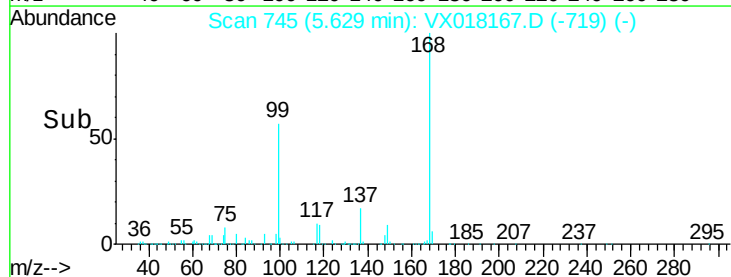
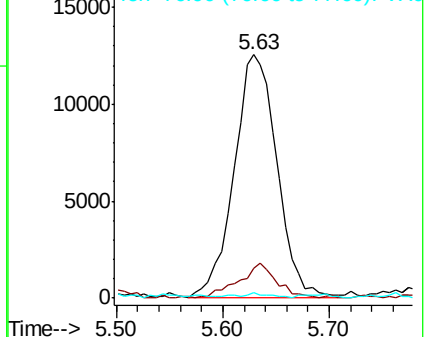
77 1.4 24.4 36.6#

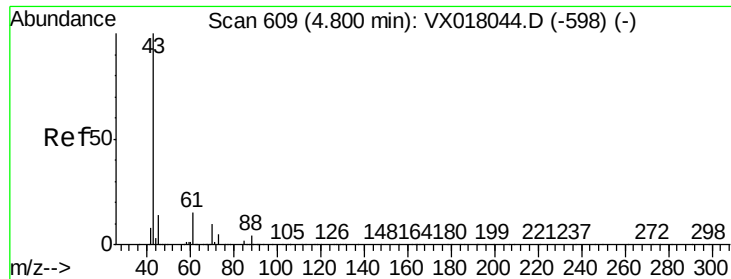


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

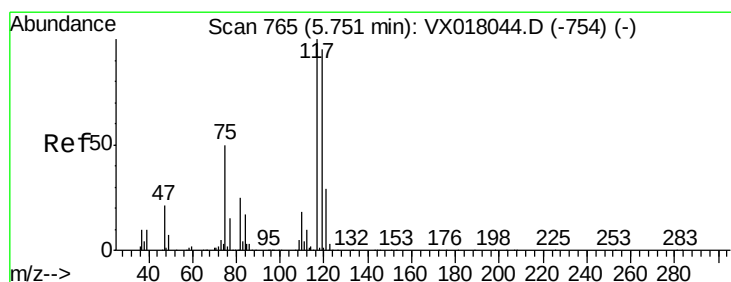
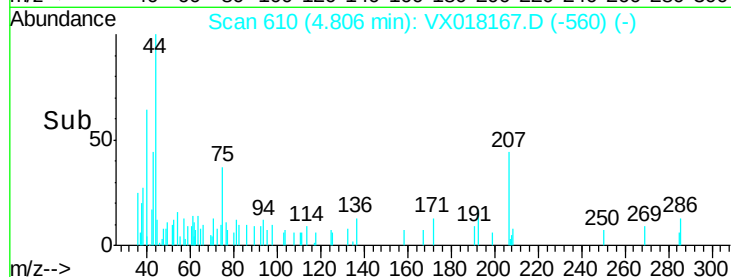
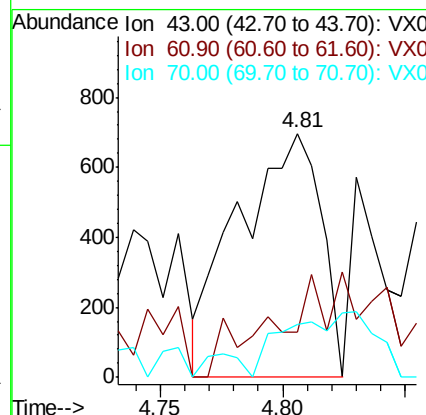
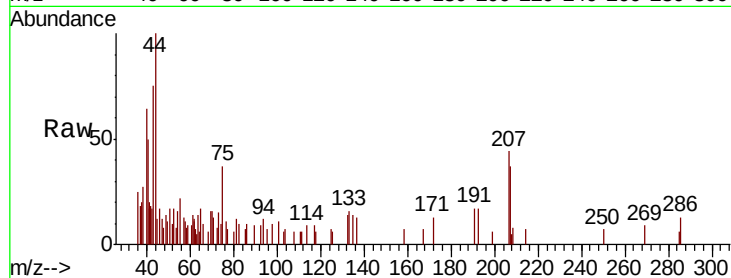




#37
Ethyl Acetate
Concen: 0.203 ug/l
RT: 4.81 min Scan# 610
Delta R.T. 0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

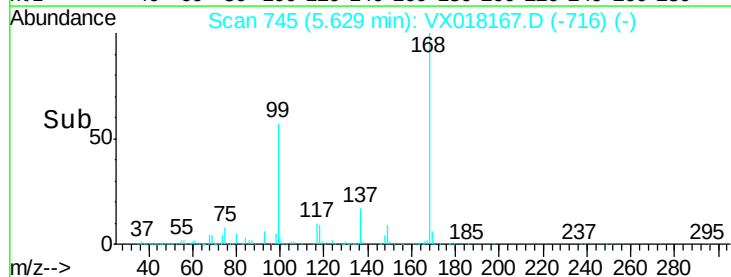
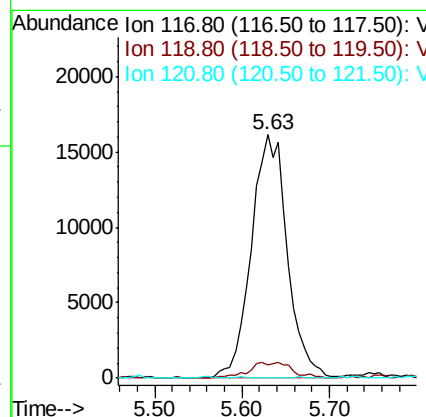
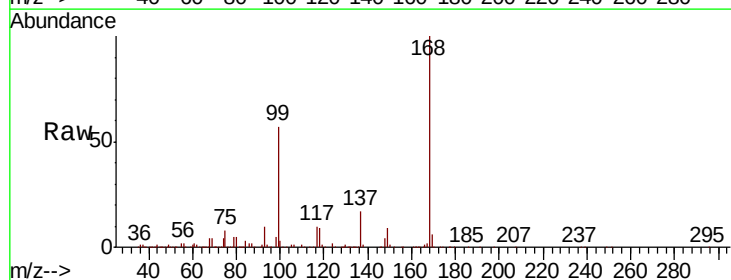
Instrument :
MSVOA_X
ClientSampleId :
PB131284TB

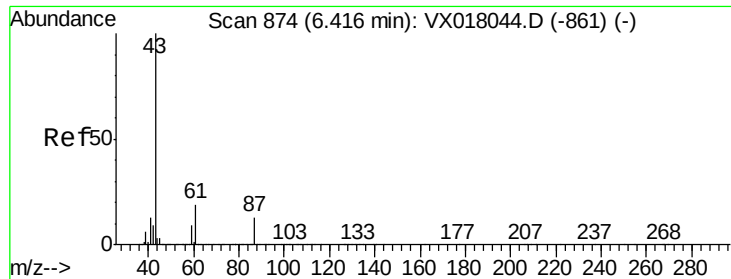
Tot Ion: 43 Resp: 1644
Ion Ratio Lower Upper
43 100
61 27.4 11.3 16.9#
70 0.0 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 5.904 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion: 117 Resp: 46315
Ion Ratio Lower Upper
117 100
119 5.2 75.8 113.6#
121 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 9.895 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

Instrument :

MSVOA_X

ClientSampleId :

PB131284TB

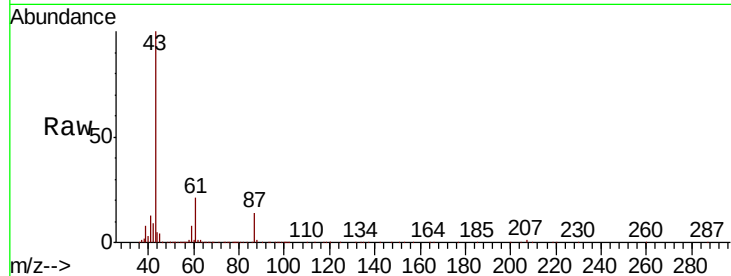
Tot Ion: 43 Resp: 129207

Ion Ratio Lower Upper

43 100

61 20.3 15.7 23.5

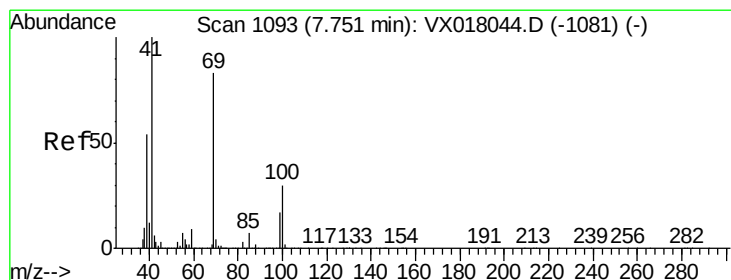
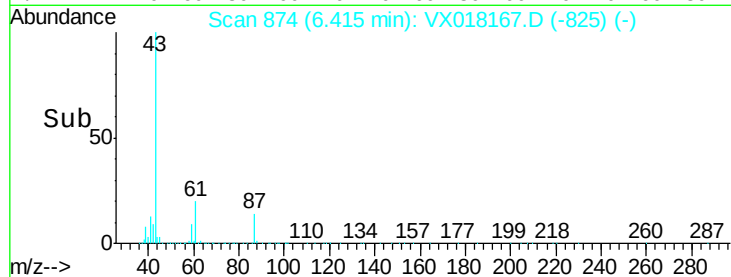
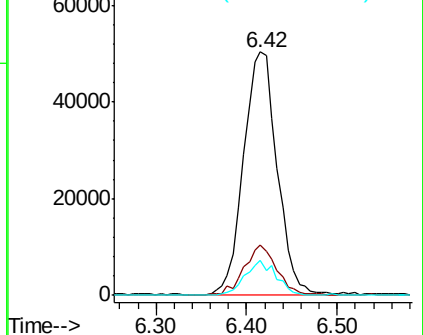
87 13.4 10.3 15.5



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: 1.018 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.10 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

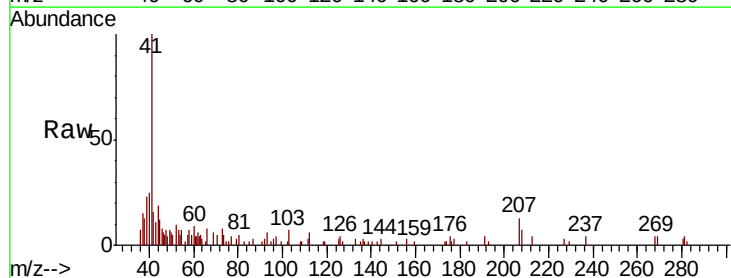
Tgt Ion: 41 Resp: 6620

Ion Ratio Lower Upper

41 100

69 0.0 65.5 98.3#

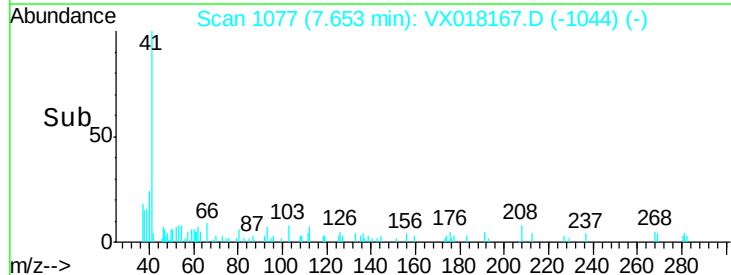
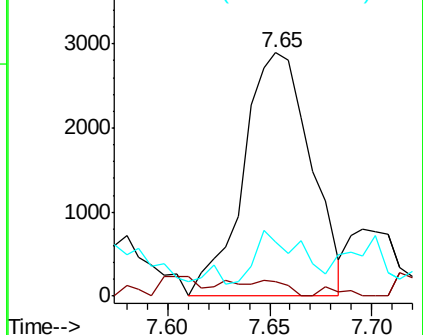
39 0.0 44.5 66.7#

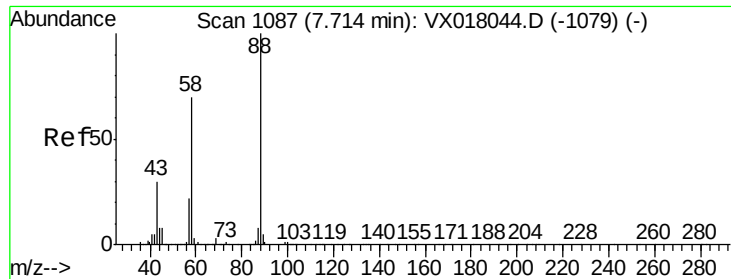


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

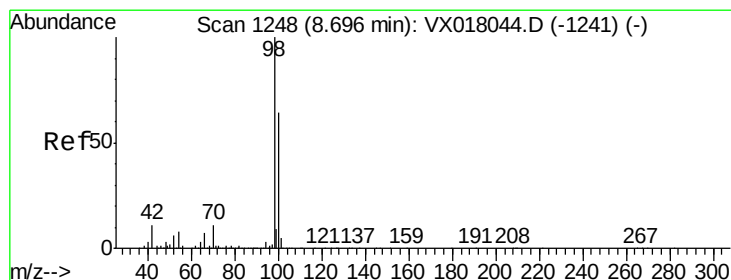
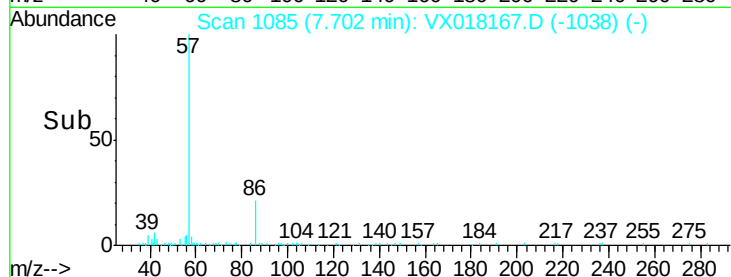
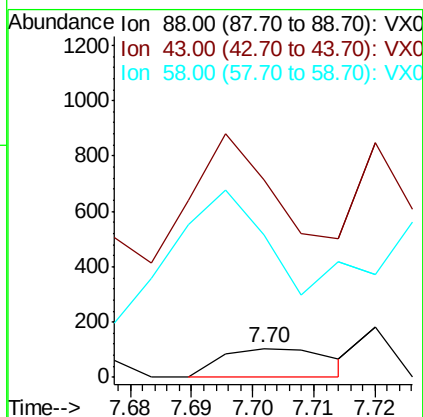
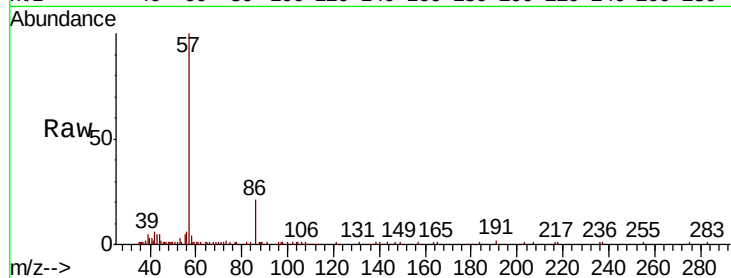




#49
1,4-Dioxane
Concen: 1.104 ug/l
RT: 7.70 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

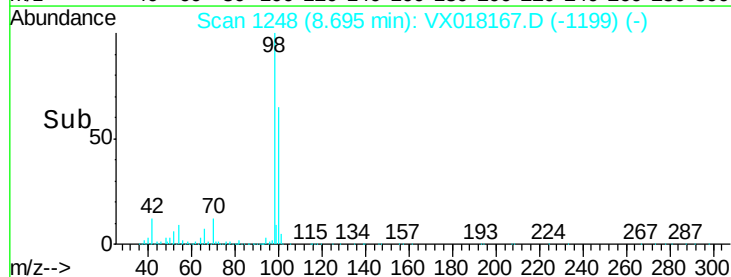
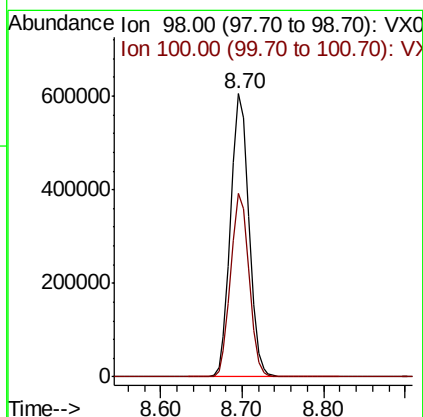
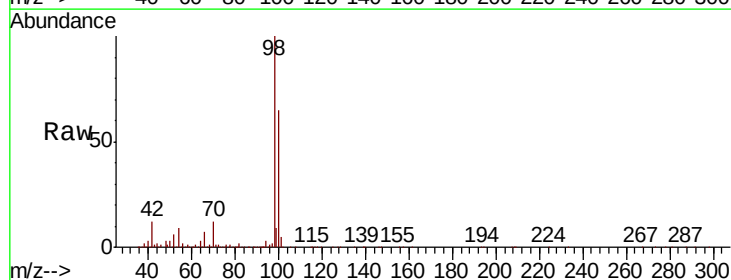
Instrument :
MSVOA_X
ClientSampleId :
PB131284TB

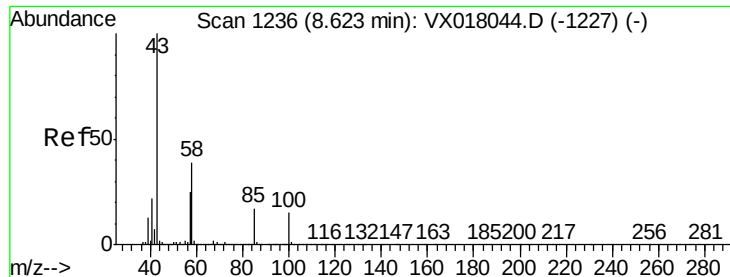
Tot Ion: 88 Resp: 130
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 965.4 56.4 84.6#



#50
Toluene-d8
Concen: 48.806 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion: 98 Resp: 934332
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 15.755 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

Instrument :

MSVOA_X

ClientSampleId :

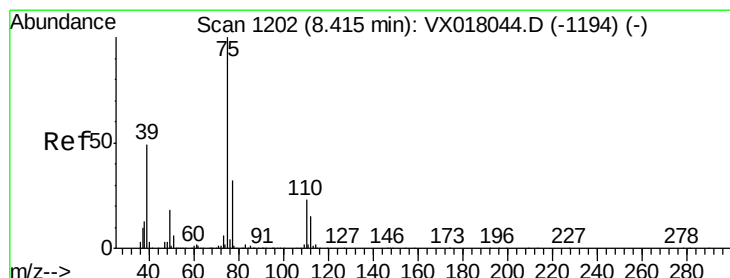
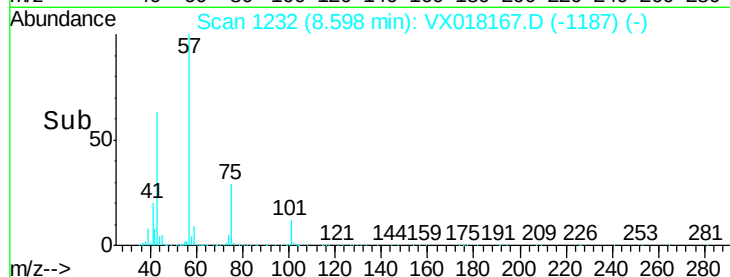
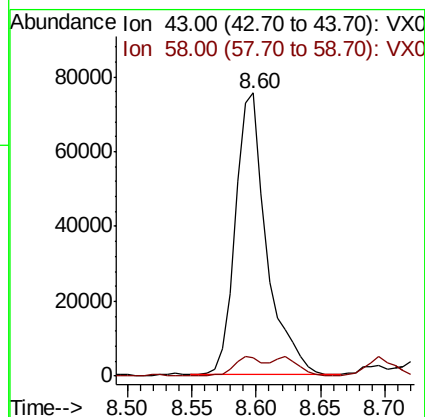
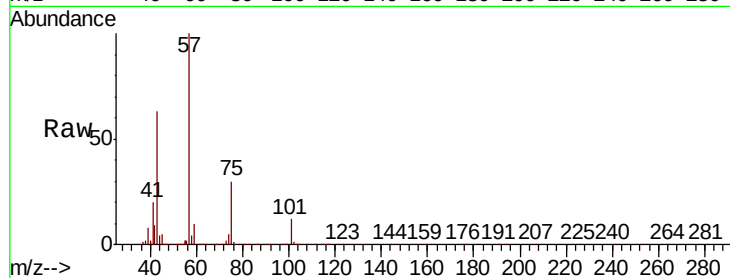
PB131284TB

Tot Ion: 43 Resp: 127082

Ion Ratio Lower Upper

43 100

58 6.0 30.7 46.1#



#54

cis-1,3-Dichloropropene

Concen: 5.945 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

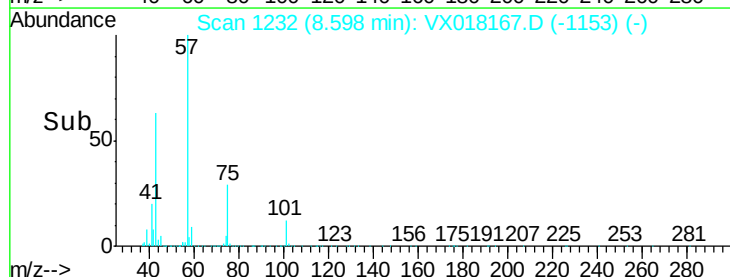
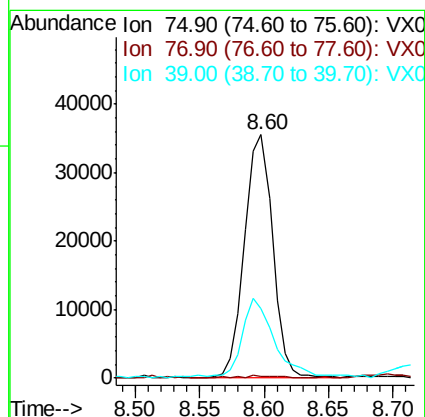
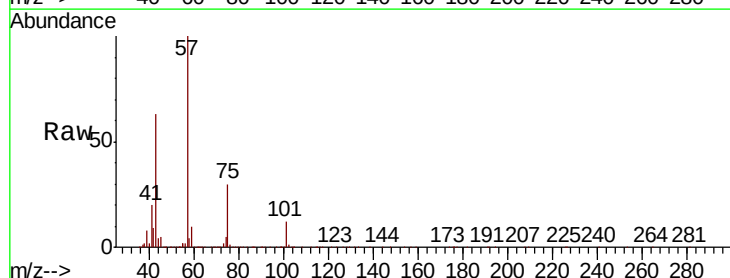
Tgt Ion: 75 Resp: 54029

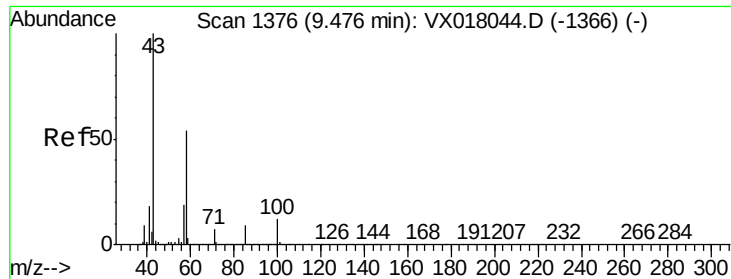
Ion Ratio Lower Upper

75 100

77 0.3 25.8 38.8#

39 27.6 38.8 58.2#

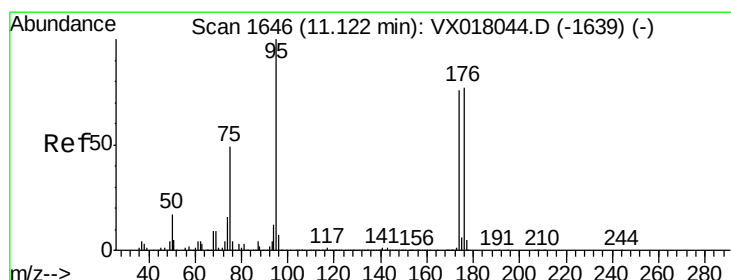
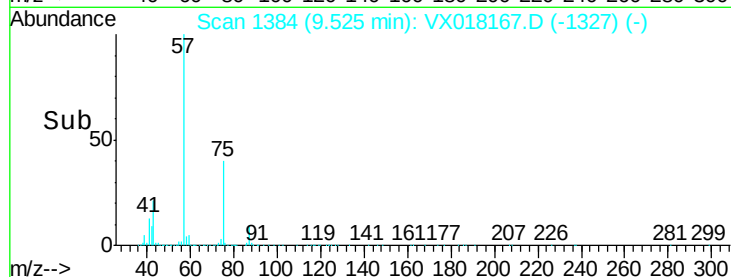
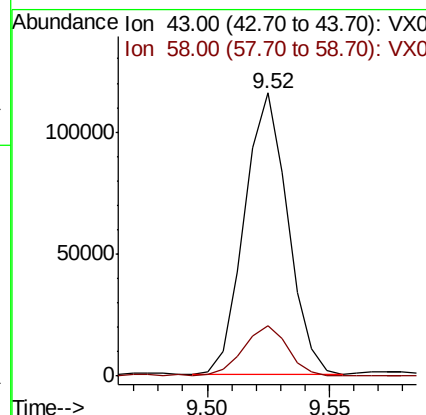
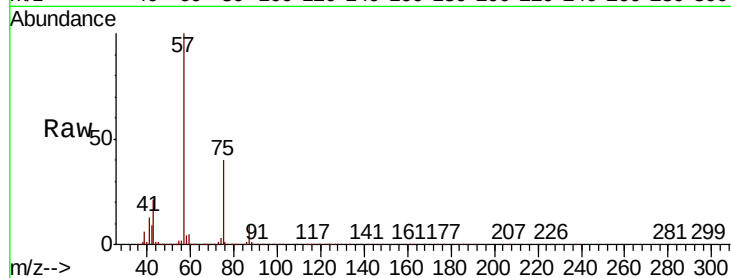




#59
2-Hexanone
Concen: 23.218 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

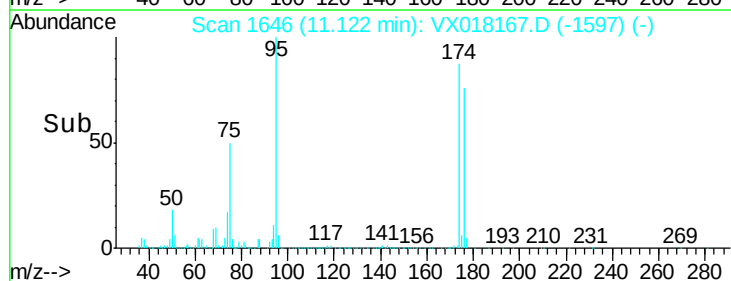
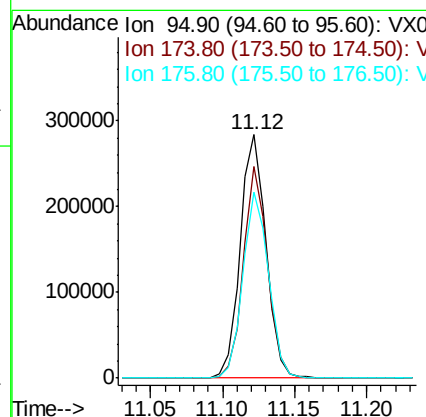
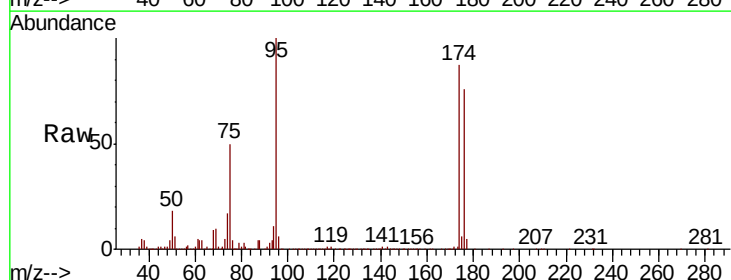
Instrument :
MSVOA_X
ClientSampled :
PB131284TB

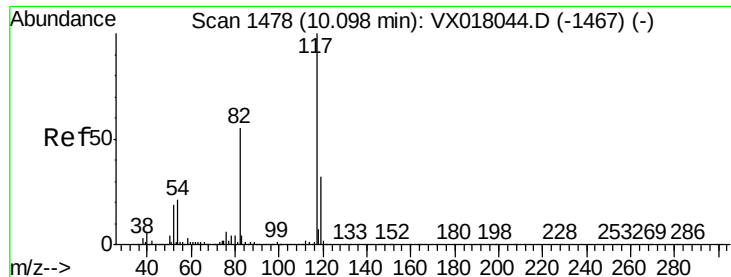
Tot Ion: 43 Resp: 142409
Ion Ratio Lower Upper
43 100
58 18.1 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 47.059 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion: 95 Resp: 354445
Ion Ratio Lower Upper
95 100
174 80.9 0.0 160.2
176 75.8 0.0 155.8

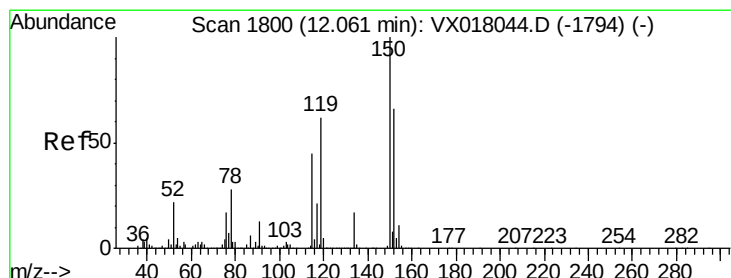
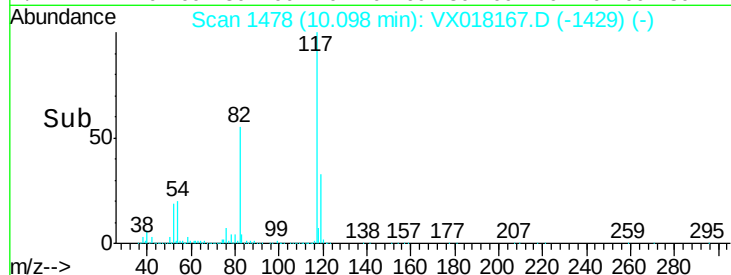
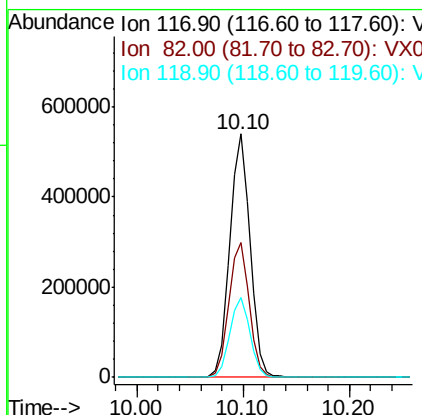
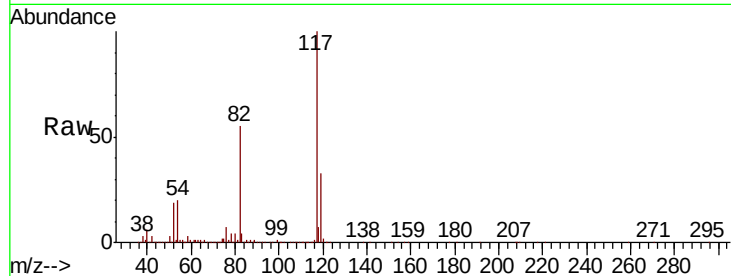




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

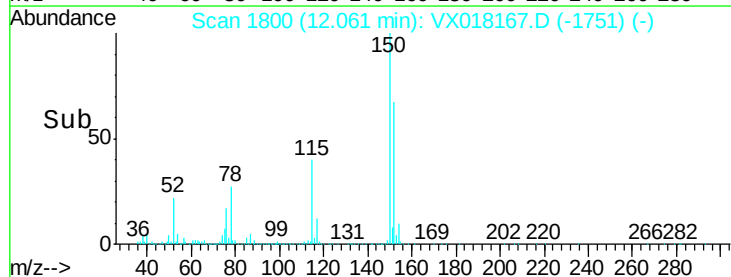
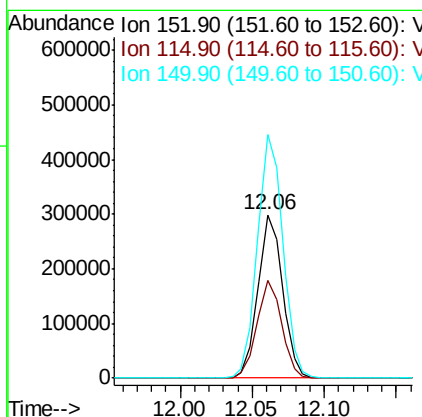
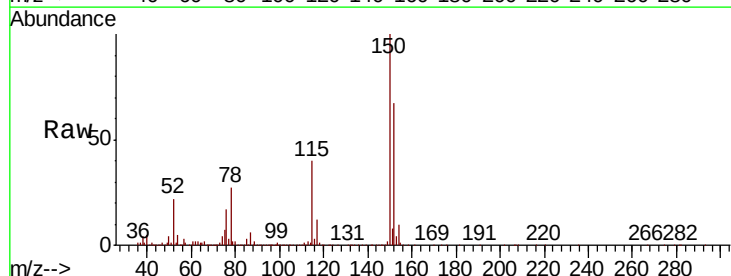
Instrument :
MSVOA_X
ClientSampleId :
PB131284TB

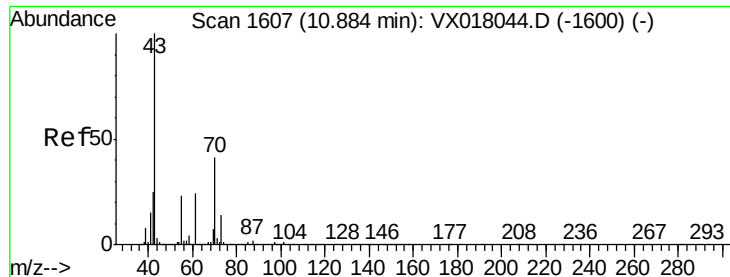
Tot Ion:117 Resp: 725670
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 33.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018167.D
Acq: 31 Aug 2020 23:53

Tgt Ion:152 Resp: 352621
Ion Ratio Lower Upper
152 100
115 59.8 41.5 124.5
150 153.0 0.0 343.8





#74

N-amvl acetate

Concen: 0.549 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX018167.D

Acq: 31 Aug 2020 23:53

Instrument :

MSVOA_X

ClientSampleId :

PB131284TB

Tot Ion: 43 Resp: 6055

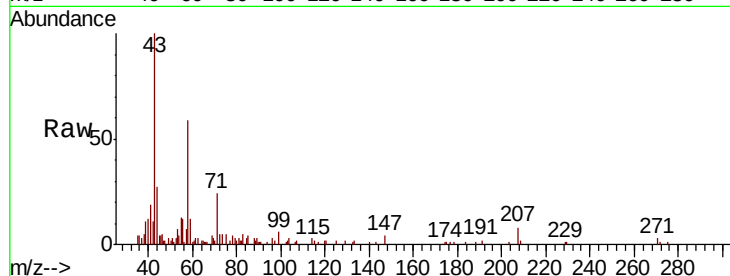
Ion Ratio Lower Upper

43 100

70 6.9 32.3 48.5#

55 20.8 18.2 27.2

61 0.0 18.9 28.3#

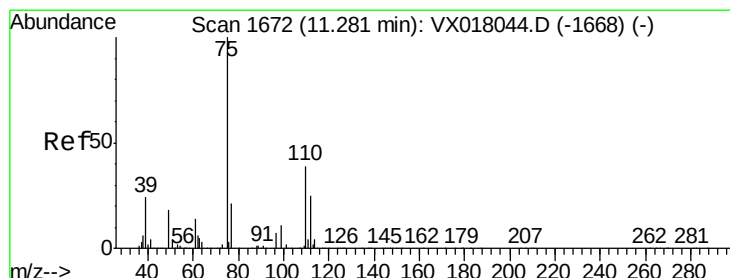
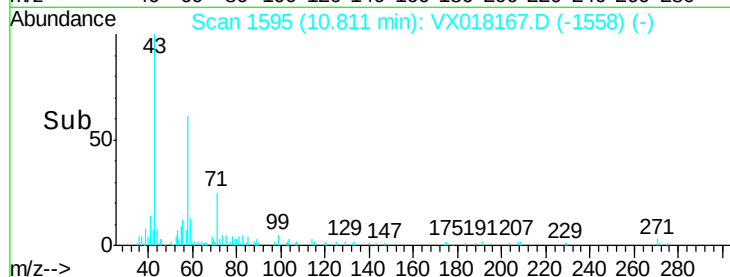
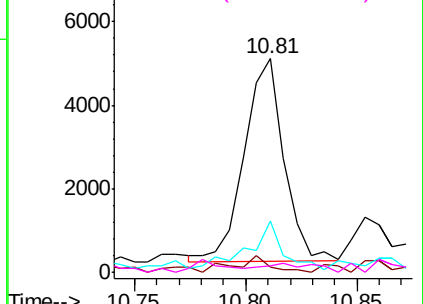


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#76

1,2,3-Trichloropropane

Concen: 22.924 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018167.D

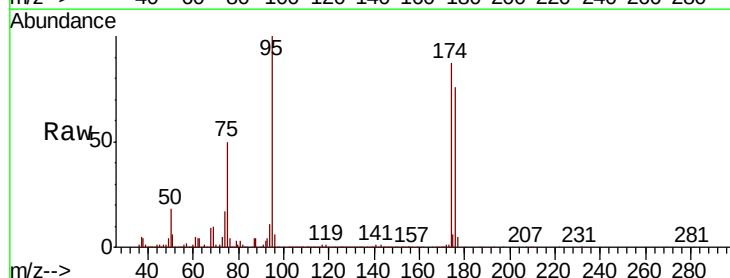
Acq: 31 Aug 2020 23:53

Tgt Ion: 75 Resp: 179821

Ion Ratio Lower Upper

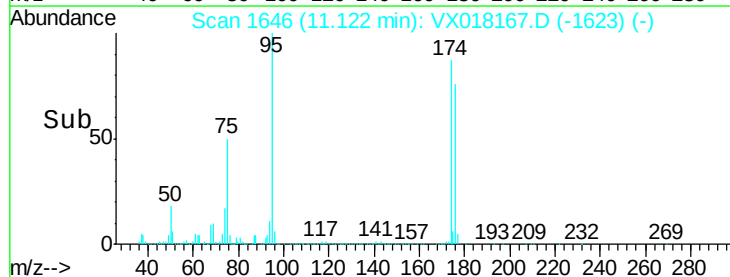
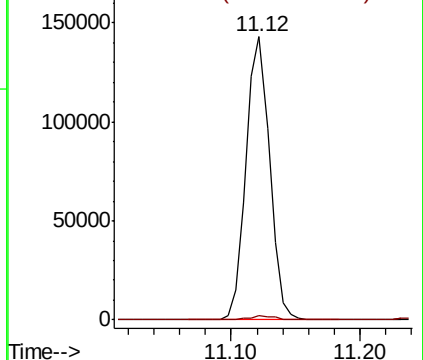
75 100

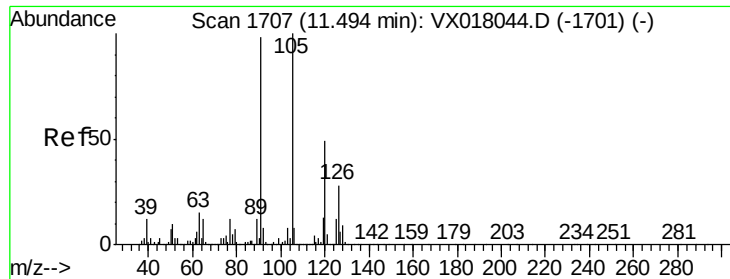
77 1.7 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

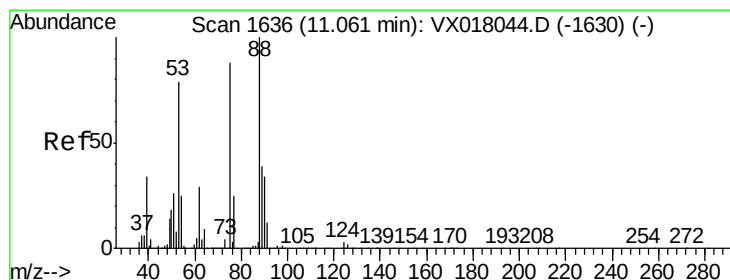
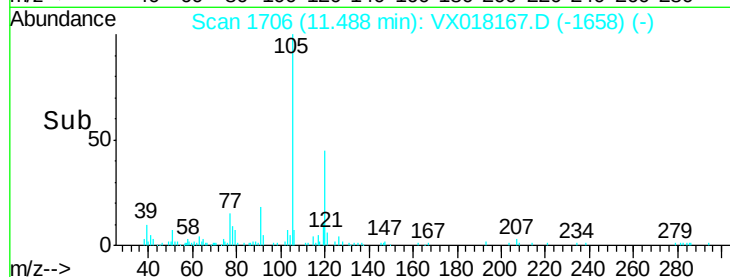
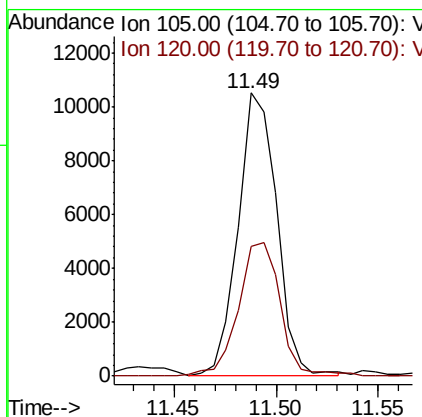
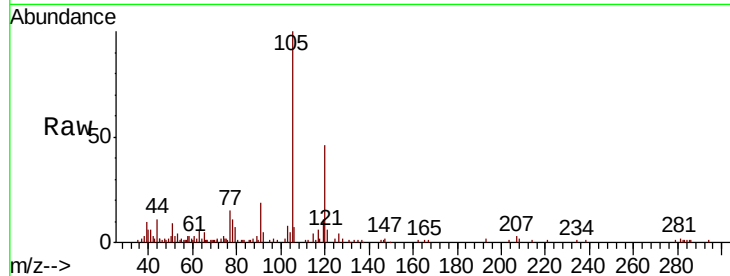




#80
 1,3,5-Trimethylbenzene
 Concen: 0.725 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.01 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

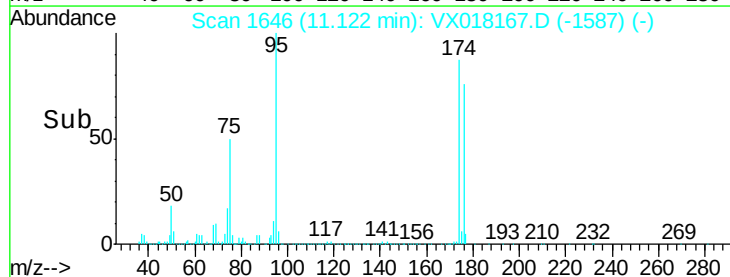
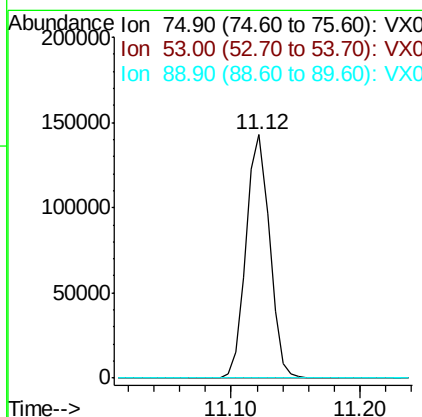
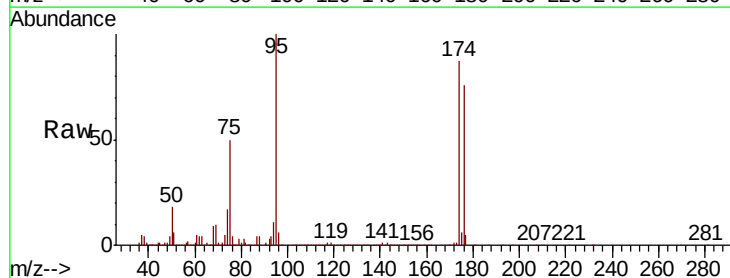
Instrument :
 MSVOA_X
 ClientSampleId :
 PB131284TB

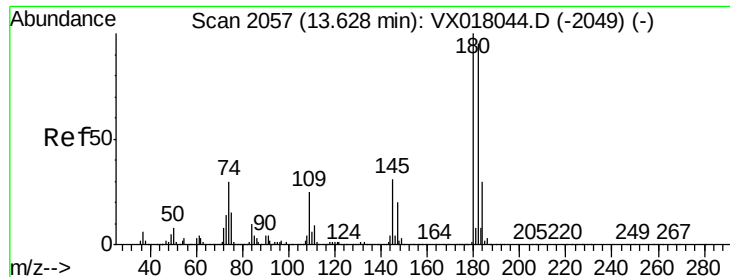
Tot Ion:105 Resp: 13855
 Ion Ratio Lower Upper
 105 100
 120 51.5 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.914 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

Tgt Ion: 75 Resp: 179821
 Ion Ratio Lower Upper
 75 100
 53 0.3 74.7 112.1#
 89 0.1 36.6 54.8#

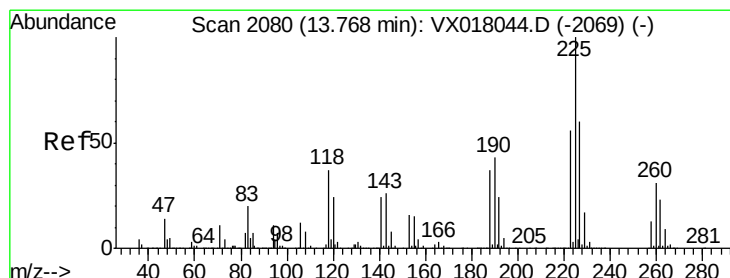
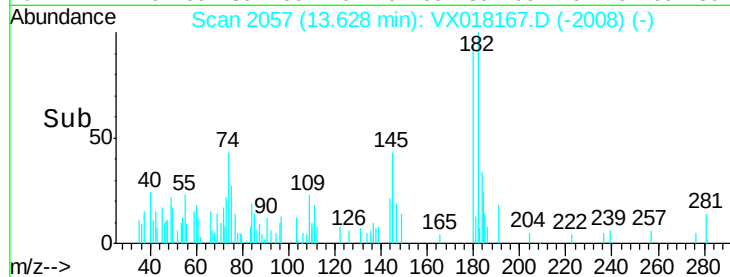
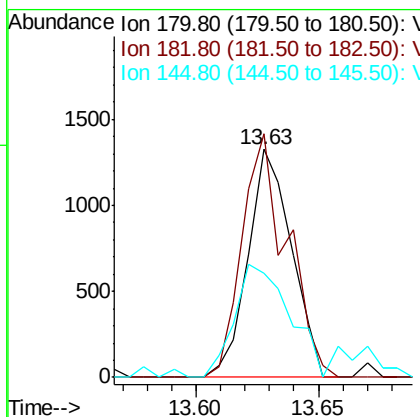
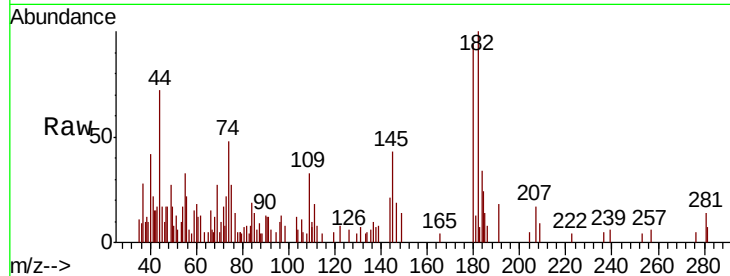




#93
 1,2,4-Trichlorobenzene
 Concen: 0.231 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

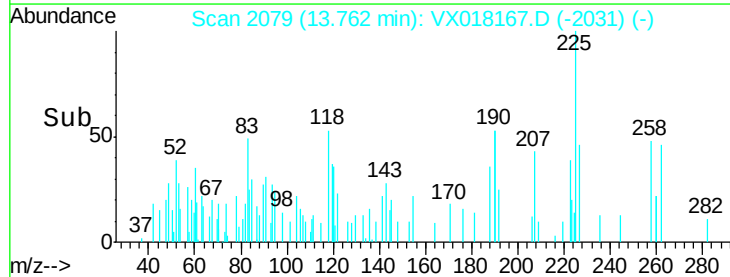
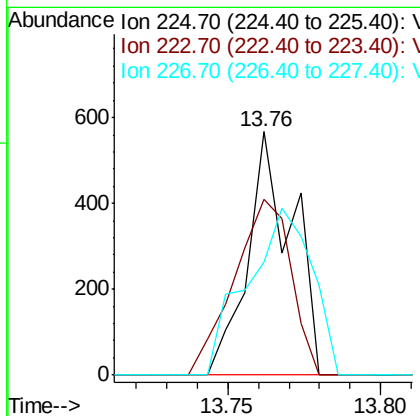
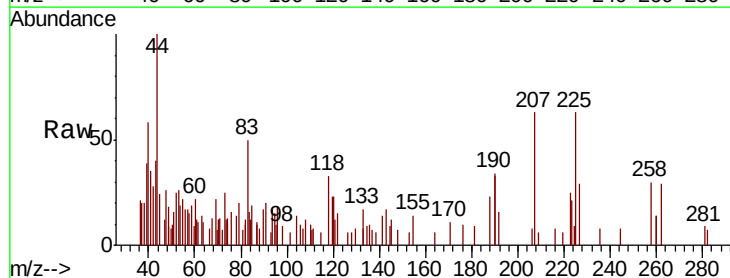
Instrument :
 MSVOA_X
 ClientSampled :
 PB131284TB

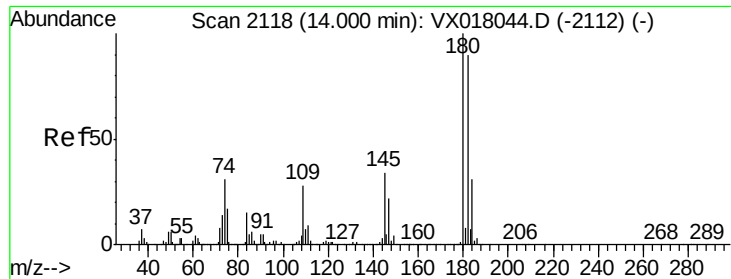
Tot Ion	Ratio	Lower	Upper
180	100		
182	110.1	47.5	142.6
145	62.2	15.7	47.1#



#94
 Hexachlorobutadiene
 Concen: 0.206 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	91.8	30.7	92.1
227	100.0	32.6	97.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.224 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX018167.D
 Acq: 31 Aug 2020 23:53

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131284TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	142.0
145	42.5	17.5	52.6

