

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090120\
 Data File : VX018191.D
 Acq On : 01 Sep 2020 14:53
 Operator : JC/SP
 Sample : PB131314ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#07

Quant Time: Sep 02 02:50:39 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	416883	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	691061	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	672121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	319584	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	305907	52.86	ug/l	0.00
Spiked Amount			Recovery	=	105.72%	
35) Dibromofluoromethane	5.47	113	238439	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
50) Toluene-d8	8.70	98	866181	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	11.12	95	324087	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	

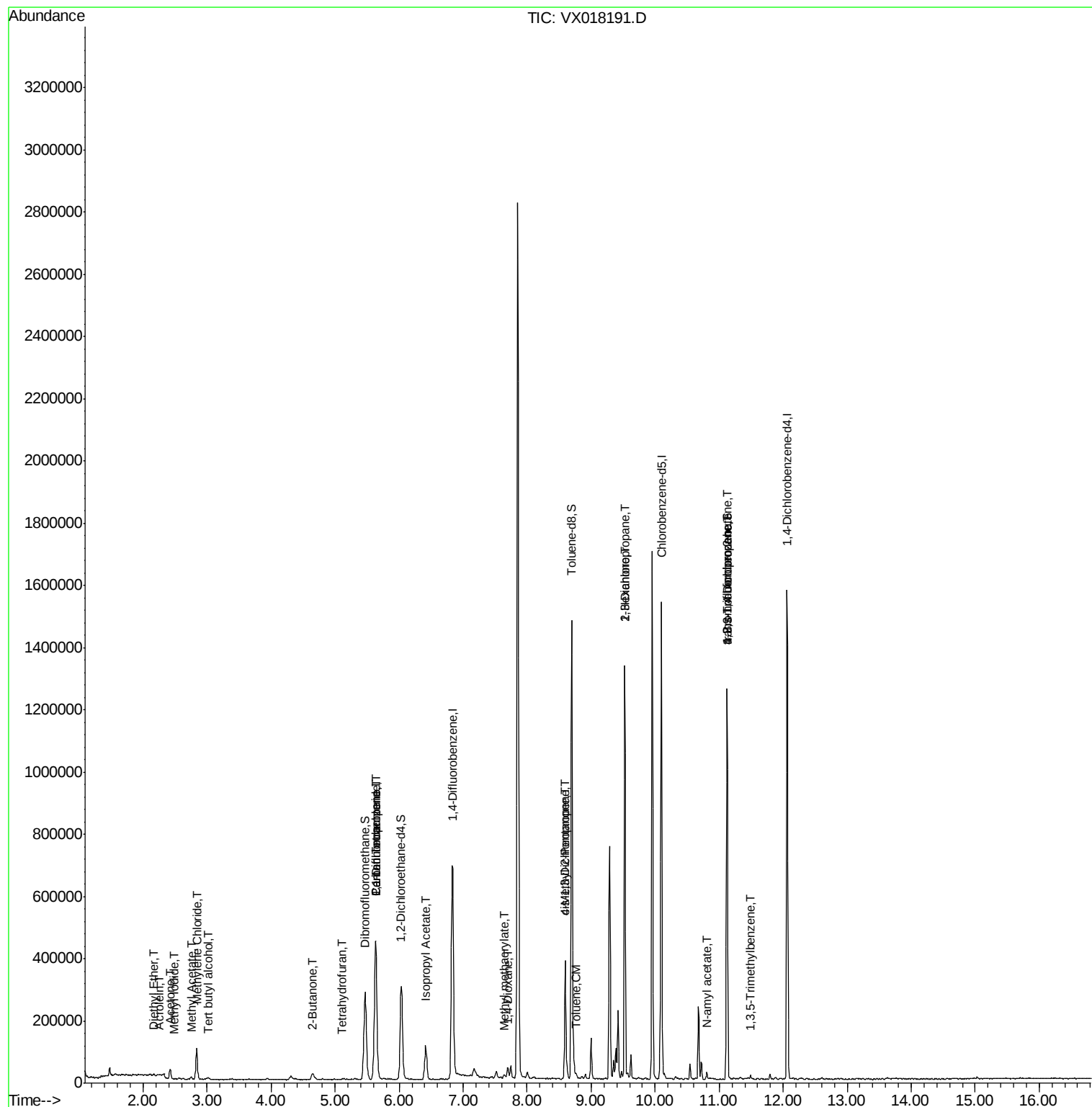
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1231	0.500	ug/l	74
10) Methyl Iodide	2.50	142	248	5.339	ug/l #	30
11) Tert butyl alcohol	3.02	59	7588	6.743	ug/l #	88
13) Acrolein	2.26	56	249	0.534	ug/l #	65
16) Acetone	2.42	43	36430	16.154	ug/l	93
18) Methyl Acetate	2.76	43	7638	1.404	ug/l #	79
20) Methylene Chloride	2.84	84	44346	8.652	ug/l	98
25) 2-Butanone	4.64	43	29286	7.902	ug/l	94
29) Tetrahydrofuran	5.12	42	3012	1.277	ug/l #	76
36) 1,1-Dichloropropene	5.63	75	32977	5.174	ug/l #	47
38) Carbon Tetrachloride	5.63	117	43358	6.036	ug/l #	17
43) Isopropyl Acetate	6.42	43	146878	12.284	ug/l	99
48) Methyl methacrylate	7.65	41	10482	1.761	ug/l #	18
49) 1,4-Dioxane	7.71	88	335	3.107	ug/l #	23
51) 4-Methyl-2-Pentanone	8.60	43	139329	18.864	ug/l #	54
52) Toluene	8.77	92	2466	0.208	ug/l	86
54) cis-1,3-Dichloropropene	8.60	75	57805	6.947	ug/l #	63
57) 1,3-Dichloropropane	9.52	76	10032	1.201	ug/l #	46
59) 2-Hexanone	9.52	43	152421	27.139	ug/l #	52
74) N-amyl acetate	10.80	43	10969	1.097	ug/l #	55
76) 1,2,3-Trichloropropane	11.12	75	164257	23.105	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	5771	0.333	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.12	75	164257	62.402	ug/l #	12

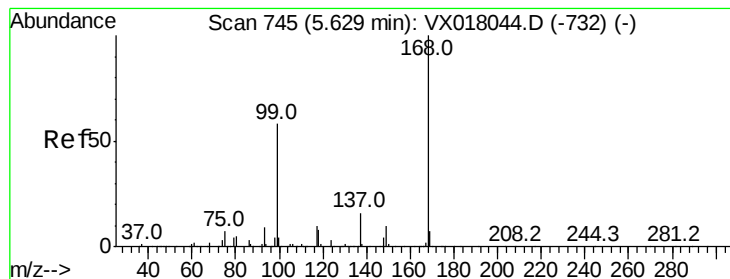
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 02 02:50:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

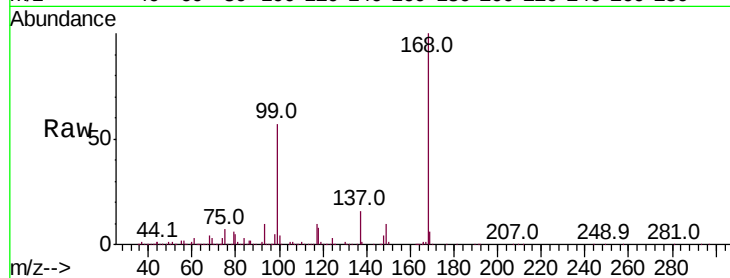
PB131314ZHE#07

Tot Ion:168 Resp: 416883

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

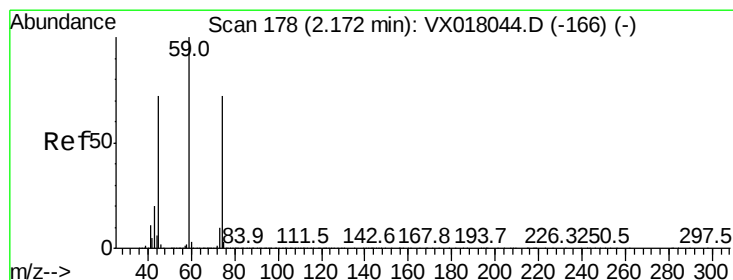
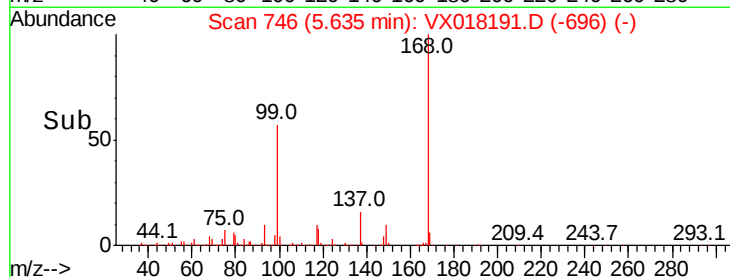
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#8

Diethyl Ether

Concen: 0.500 ug/l

RT: 2.17 min Scan# 178

Delta R.T. -0.00 min

Lab File: VX018191.D

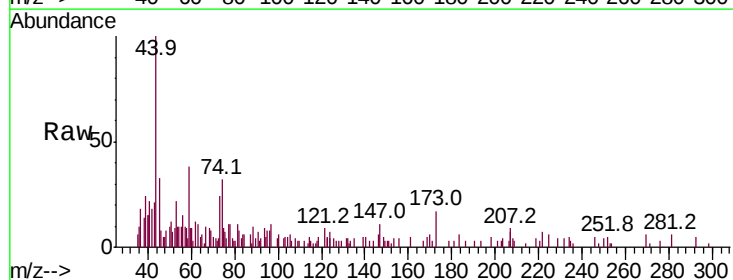
Acq: 01 Sep 2020 14:53

Tgt Ion: 74 Resp: 1231

Ion Ratio Lower Upper

74 100

45 74.9 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

1200

1000

800

600

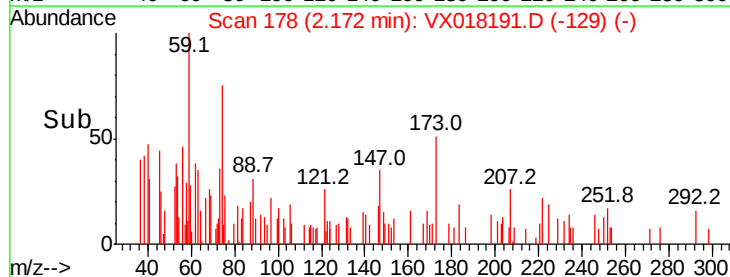
400

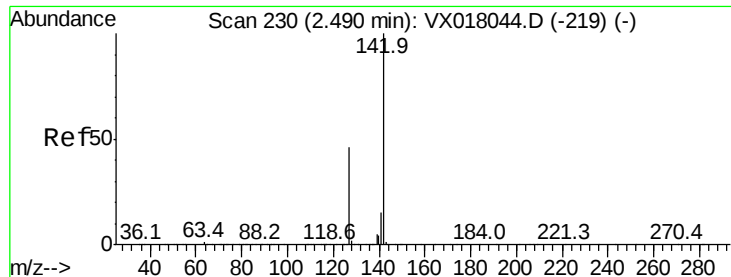
200

0

2.15 2.20

Time-->

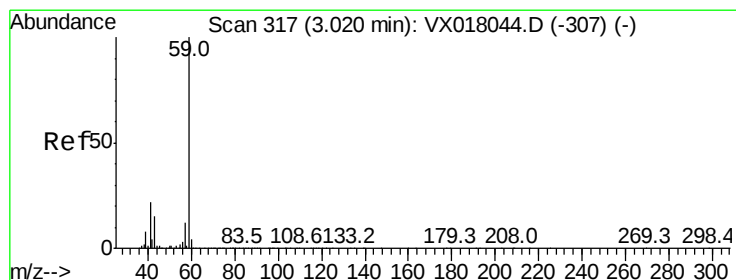
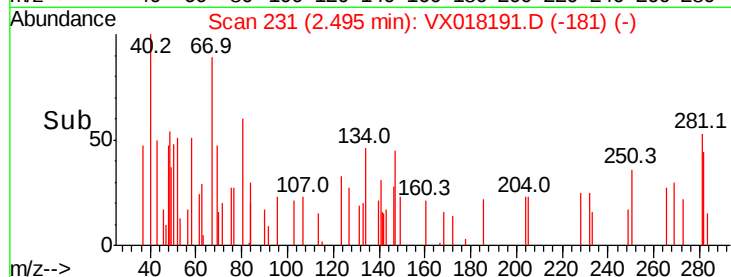
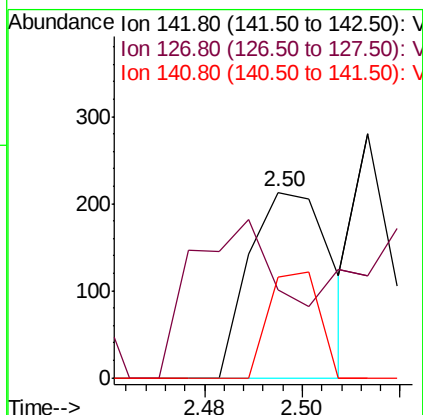
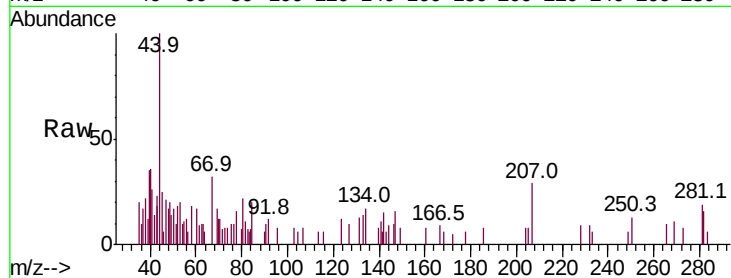




#10
Methyl Iodide
Concen: 5.339 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

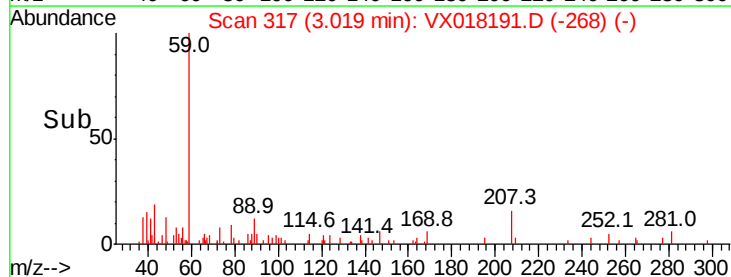
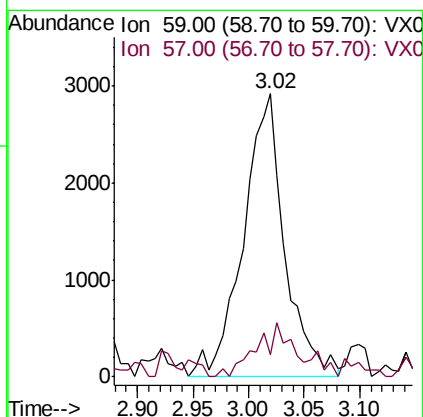
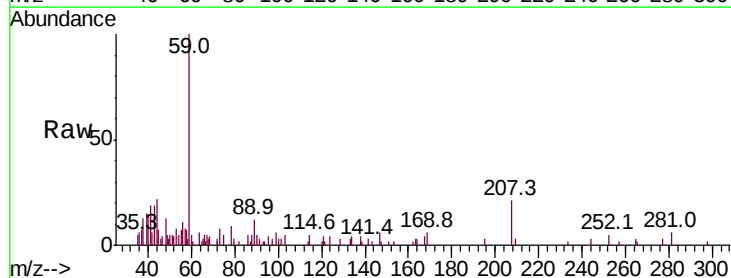
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#07

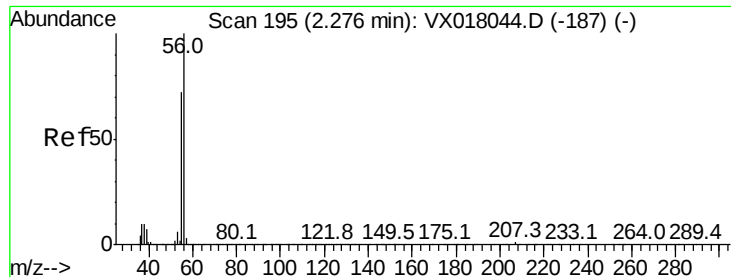
Tot Ion:142 Resp: 248
Ion Ratio Lower Upper
142 100
127 96.8 37.0 55.6#
141 34.7 11.5 17.3#



#11
Tert butyl alcohol
Concen: 6.743 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.00 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

Tgt Ion: 59 Resp: 7588
Ion Ratio Lower Upper
59 100
57 15.7 8.9 13.3#

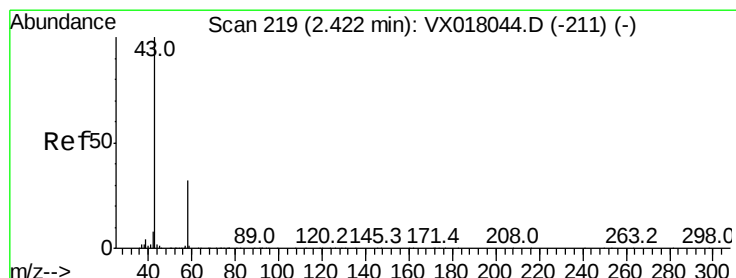
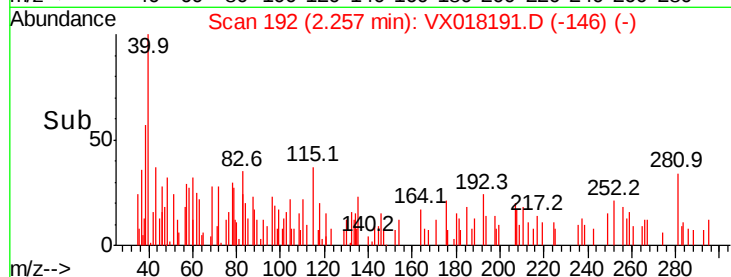
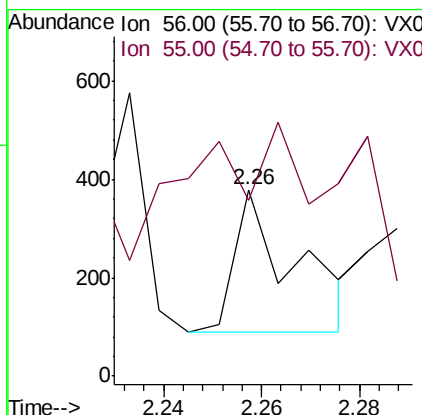
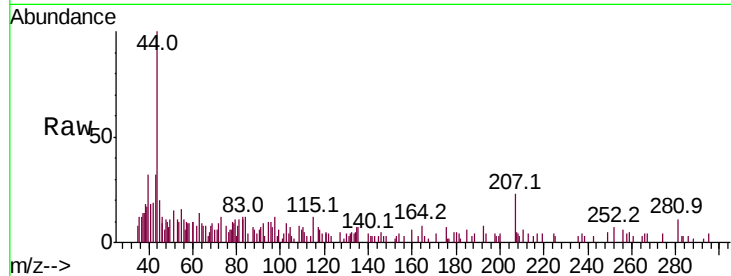




#13
Acrolein
Concen: 0.534 ug/l
RT: 2.26 min Scan# 192
Delta R.T. -0.02 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

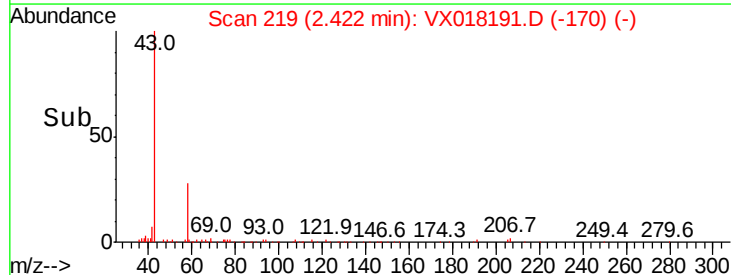
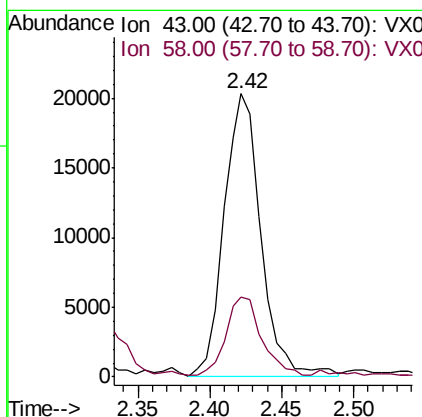
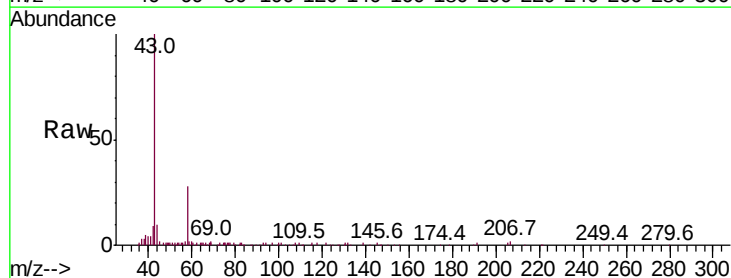
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#07

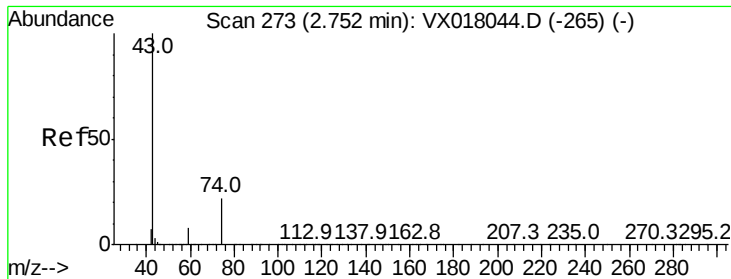
Tot Ion: 56 Resp: 249
Ion Ratio Lower Upper
56 100
55 100.0 57.0 85.6#



#16
Acetone
Concen: 16.154 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

Tgt Ion: 43 Resp: 36430
Ion Ratio Lower Upper
43 100
58 27.8 25.5 38.3

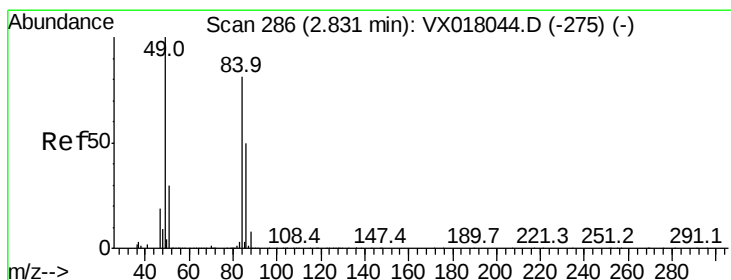
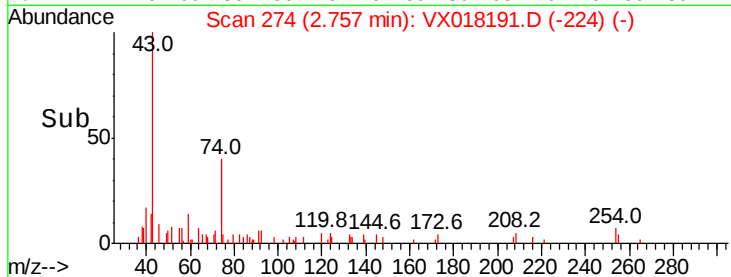
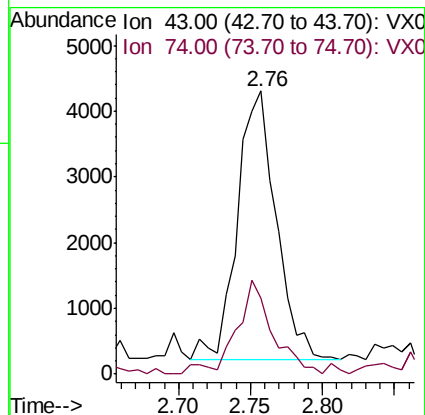
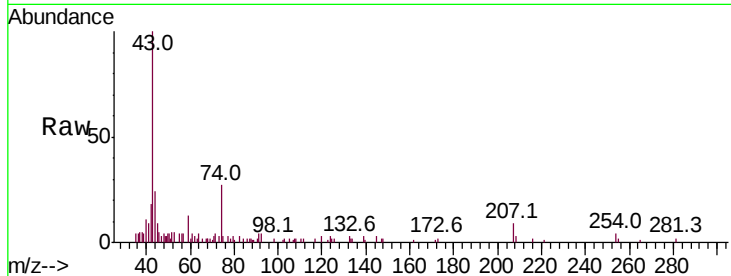




#18
Methyl Acetate
Concen: 1.404 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

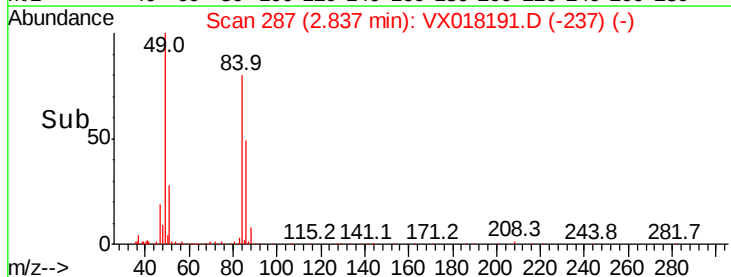
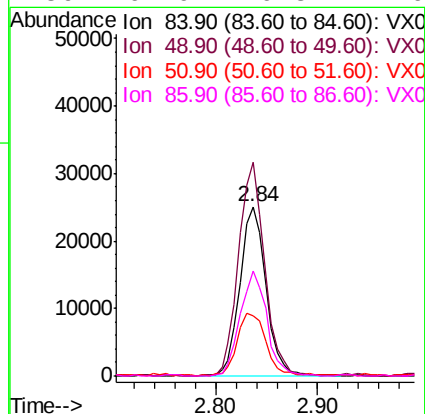
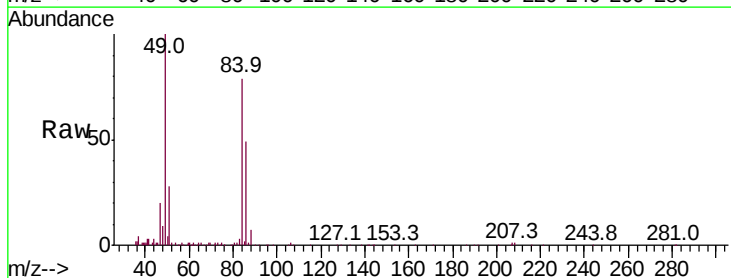
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#07

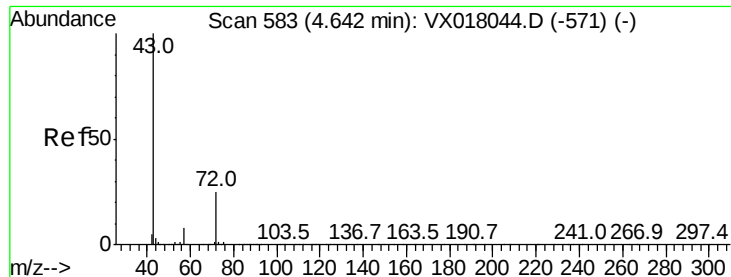
Tot Ion: 43 Resp: 7638
Ion Ratio Lower Upper
43 100
74 32.9 18.2 27.4#



#20
Methylene Chloride
Concen: 8.652 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

Tgt Ion: 84 Resp: 44346
Ion Ratio Lower Upper
84 100
49 126.0 98.6 148.0
51 34.7 29.6 44.4
86 61.9 49.8 74.6





#25

2-Butanone

Concen: 7.902 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

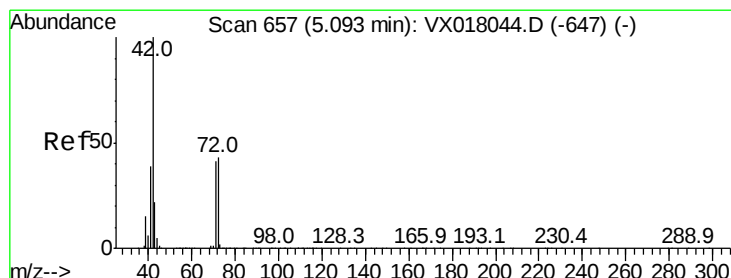
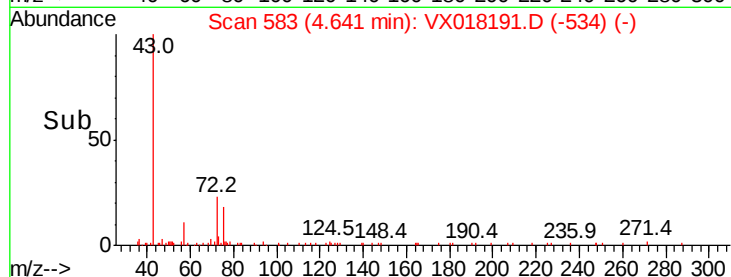
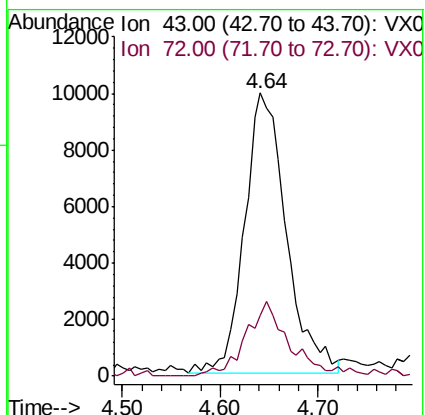
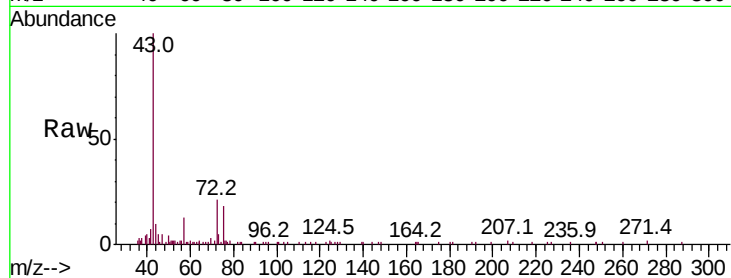
PB131314ZHE#07

Tot Ion: 43 Resp: 29286

Ion Ratio Lower Upper

43 100

72 21.8 19.8 29.6



#29

Tetrahydrofuran

Concen: 1.277 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

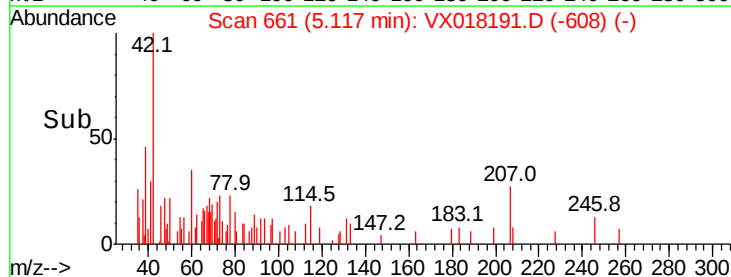
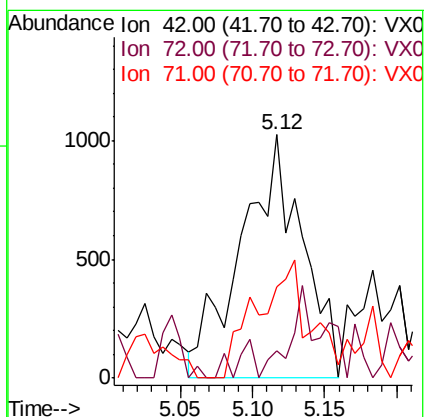
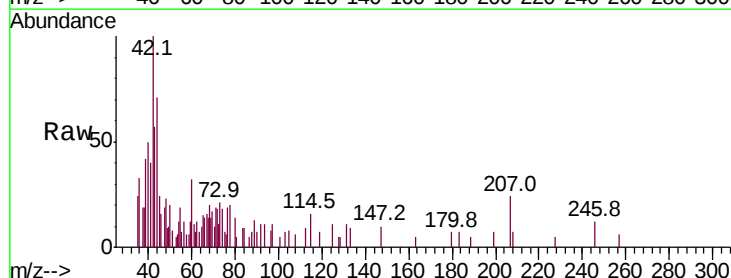
Tgt Ion: 42 Resp: 3012

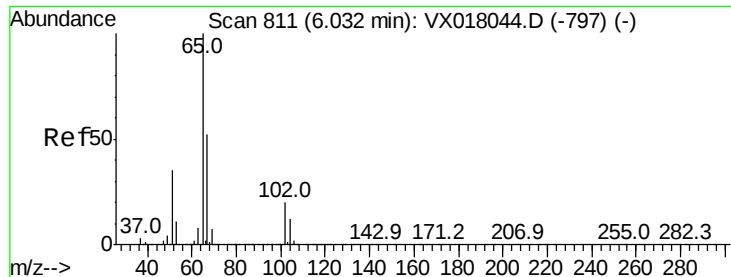
Ion Ratio Lower Upper

42 100

72 14.3 34.2 51.4#

71 41.6 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 52.857 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

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ClientSampleId :

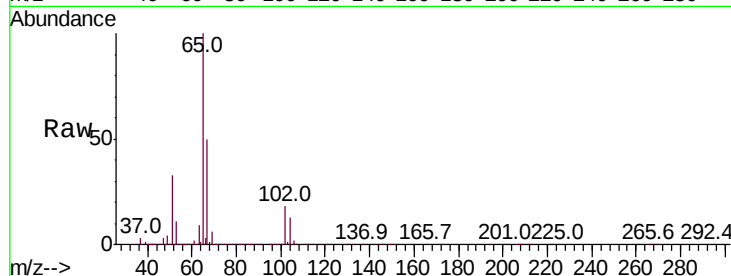
PB131314ZHE#07

Tot Ion: 65 Resp: 305907

Ion Ratio Lower Upper

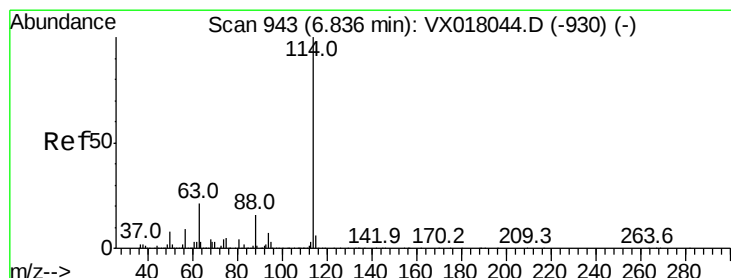
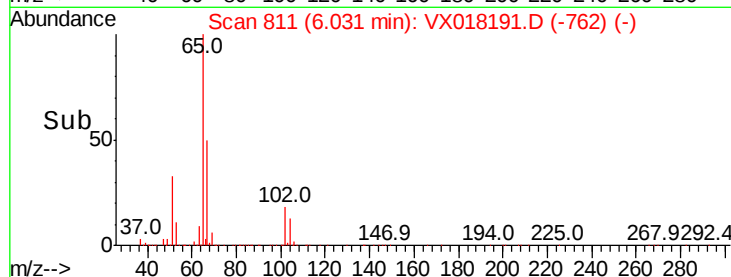
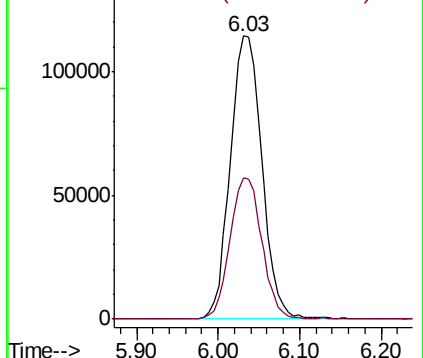
65 100

67 50.1 0.0 105.8



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. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

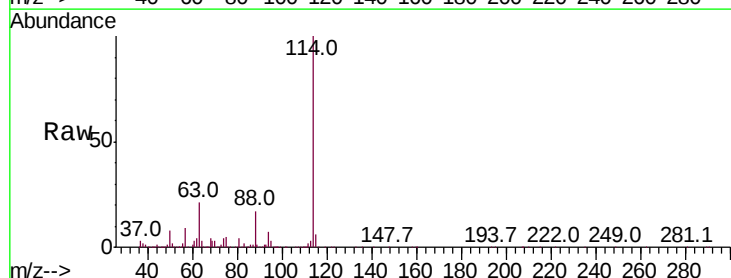
Tgt Ion: 114 Resp: 691061

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

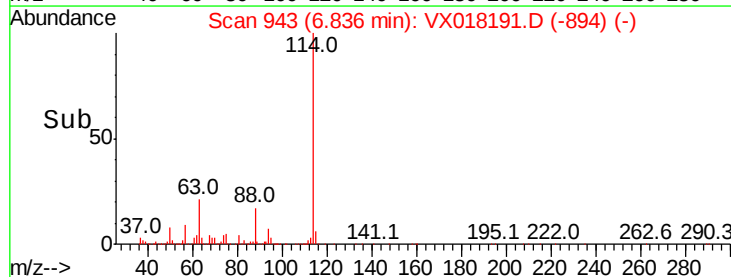
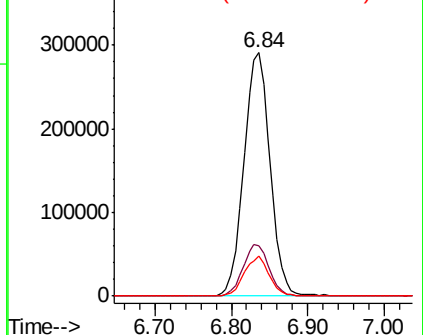
88 16.6 0.0 31.8

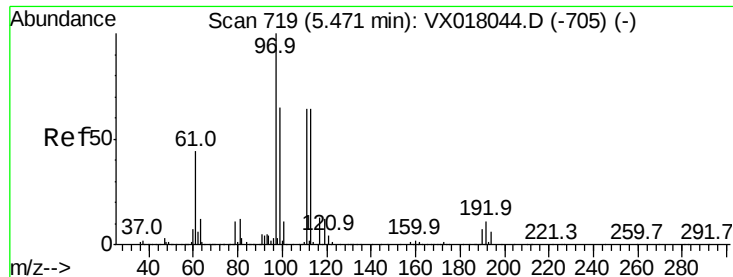


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.662 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#07

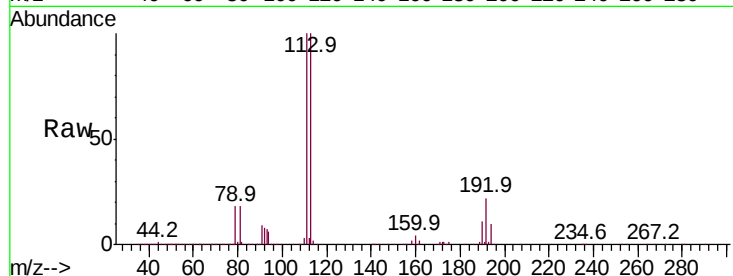
Tot Ion:113 Resp: 238439

Ion Ratio Lower Upper

113 100

111 103.0 81.6 122.4

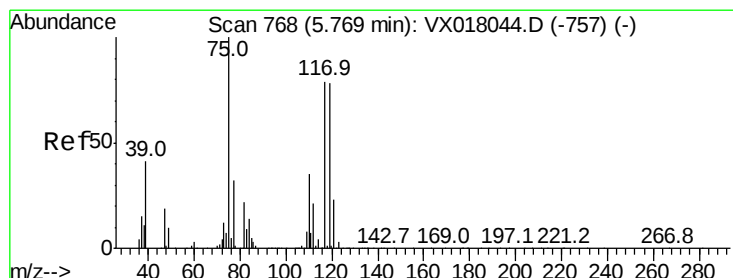
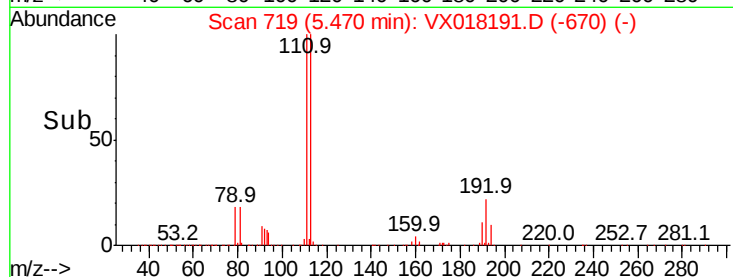
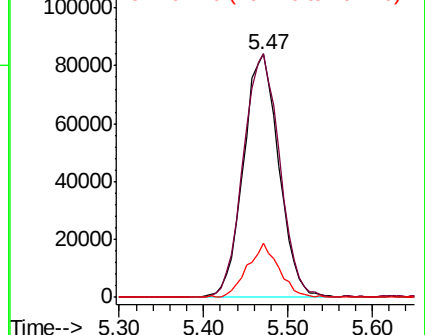
192 20.0 15.8 23.8



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: 5.174 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

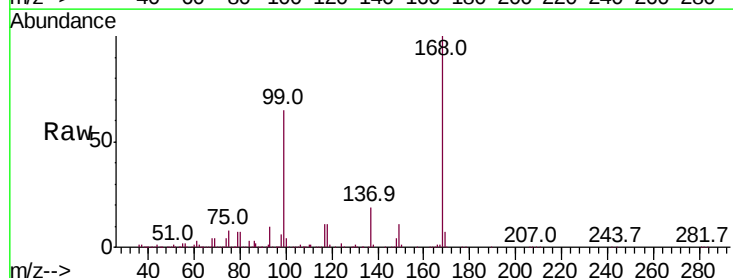
Tgt Ion: 75 Resp: 32977

Ion Ratio Lower Upper

75 100

110 6.4 18.0 54.0#

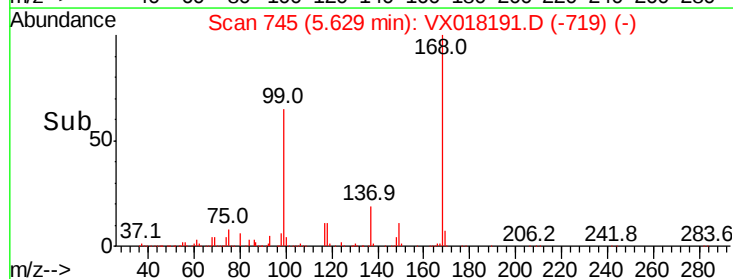
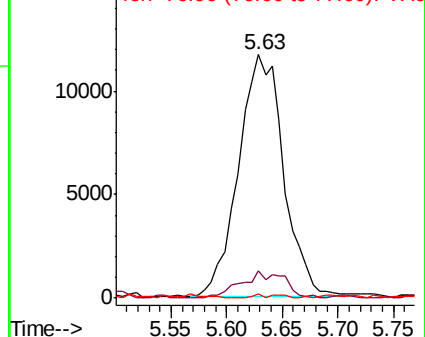
77 0.4 24.4 36.6#

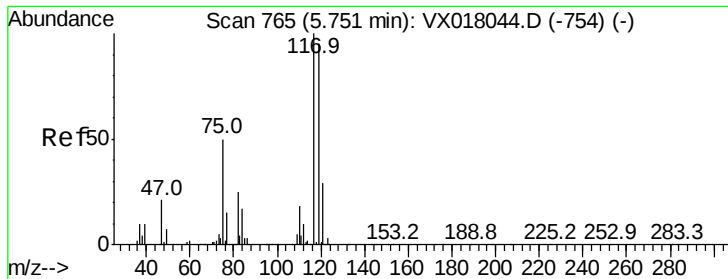


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.036 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#07

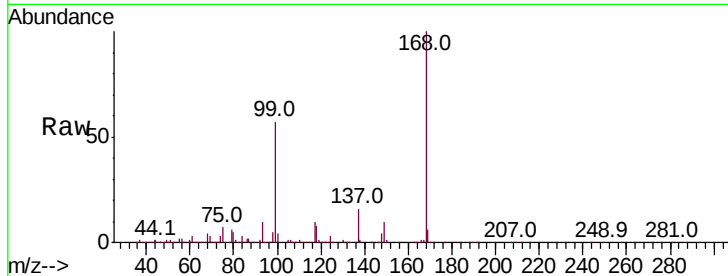
Tot Ion:117 Resp: 43358

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.6#

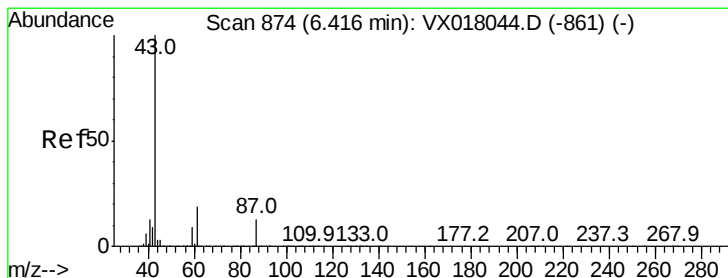
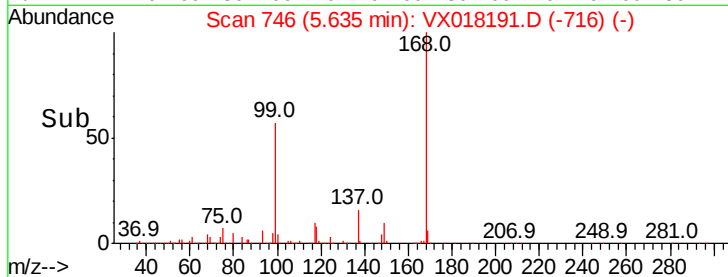
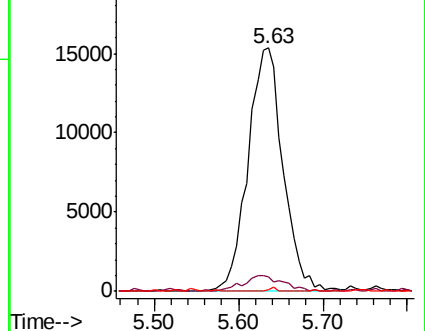
121 0.7 23.4 35.0#



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: 12.284 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

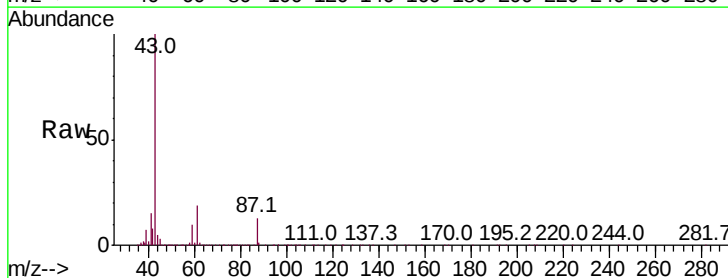
Tgt Ion: 43 Resp: 146878

Ion Ratio Lower Upper

43 100

61 19.0 15.7 23.5

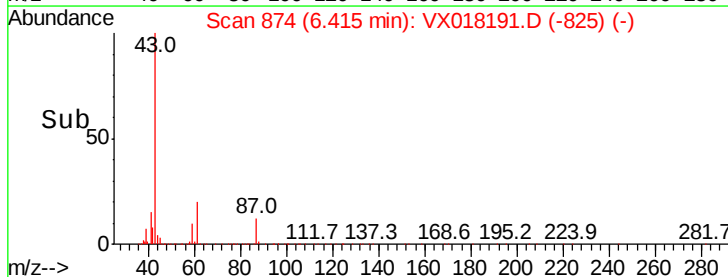
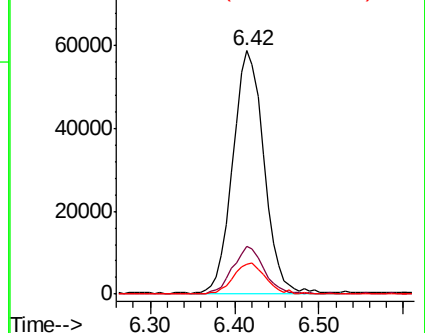
87 13.4 10.3 15.5

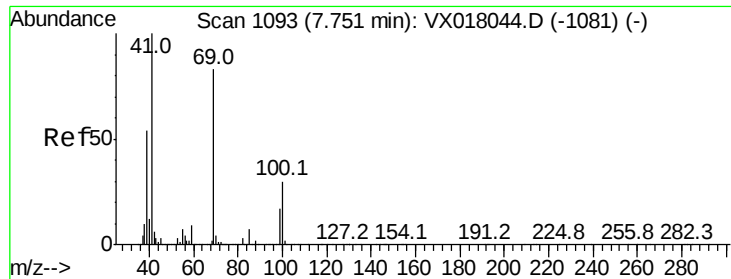


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

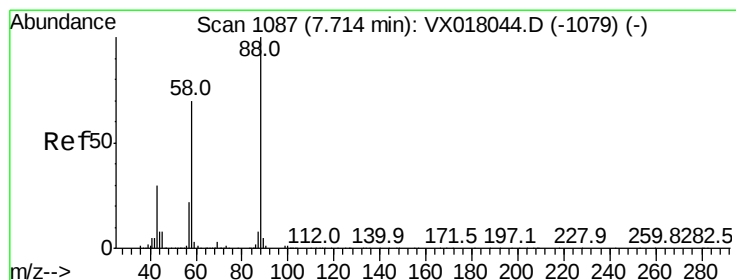
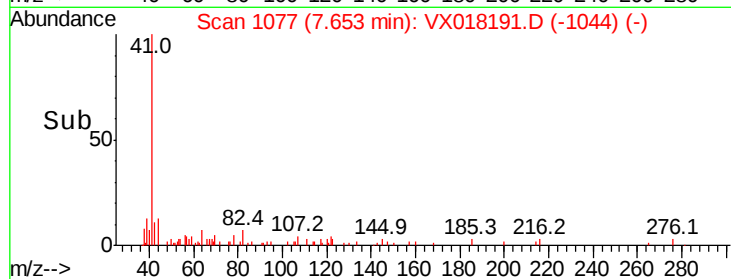
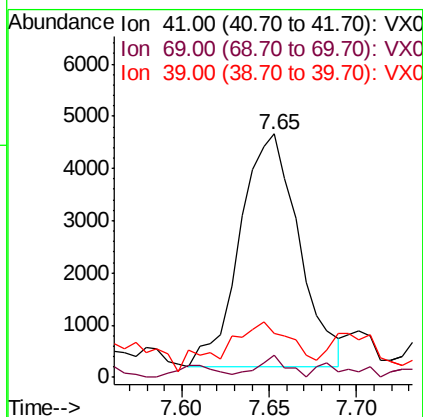
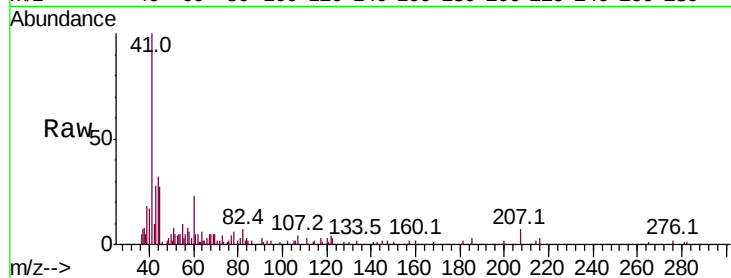




#48
Methyl methacrylate
Concen: 1.761 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.10 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

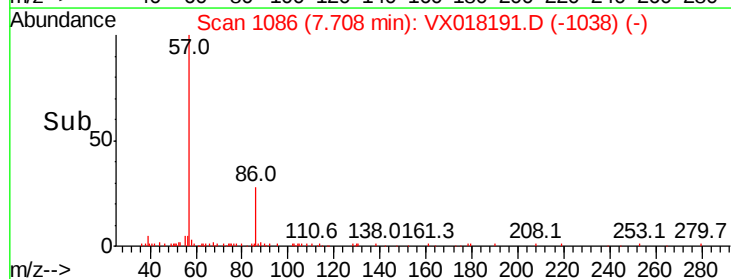
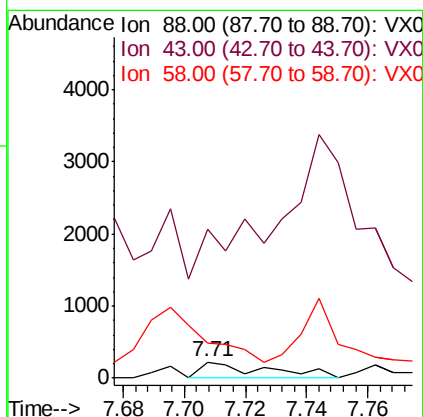
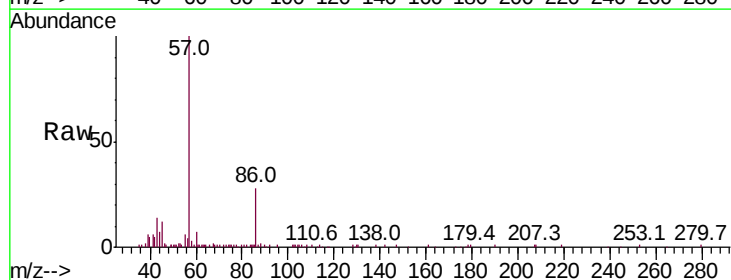
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#07

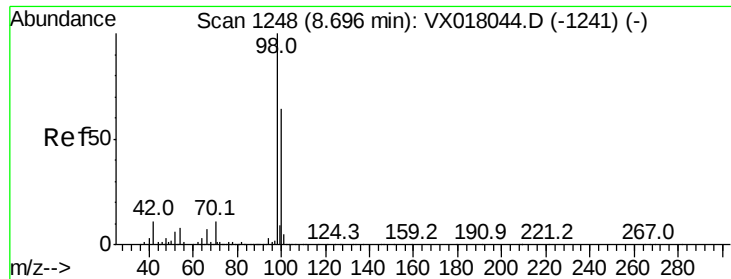
Tot Ion	Ratio	Lower	Upper
41	100		
69	4.6	65.5	98.3#
39	0.0	44.5	66.7#



#49
1,4-Dioxane
Concen: 3.107 ug/l
RT: 7.71 min Scan# 1086
Delta R.T. -0.01 min
Lab File: VX018191.D
Acq: 01 Sep 2020 14:53

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	0.0	56.4	84.6#





#50

Toluene-d8

Concen: 49.413 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

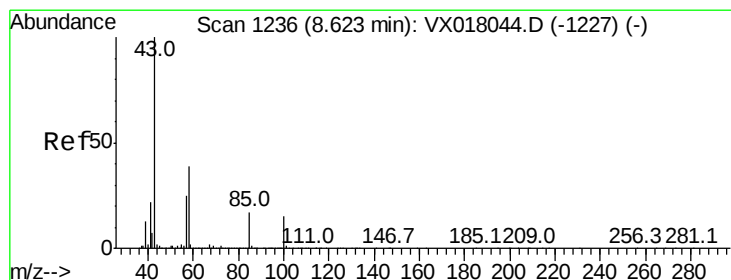
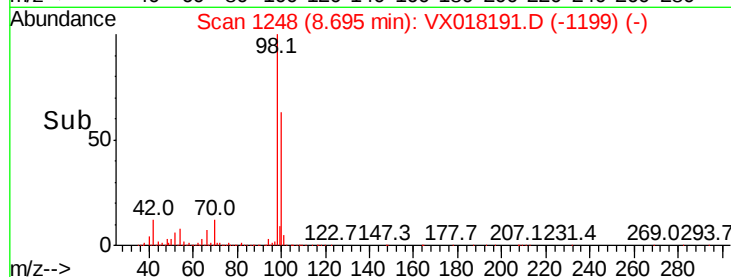
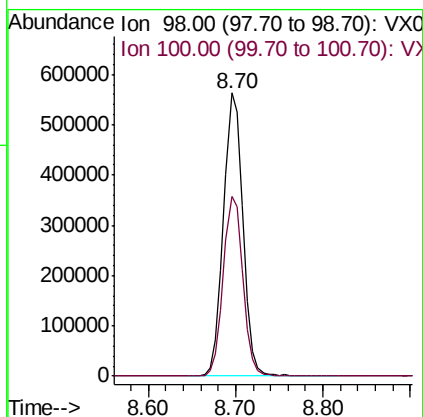
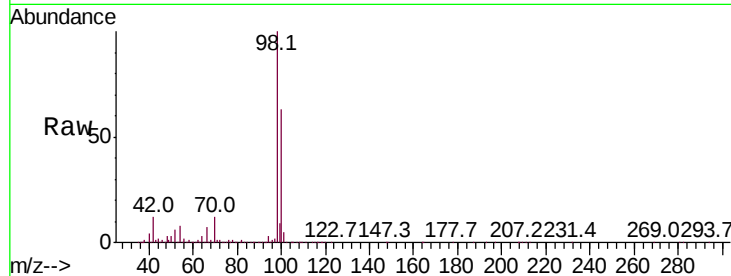
PB131314ZHE#07

Tot Ion: 98 Resp: 866181

Ion Ratio Lower Upper

98 100

100 64.1 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 18.864 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018191.D

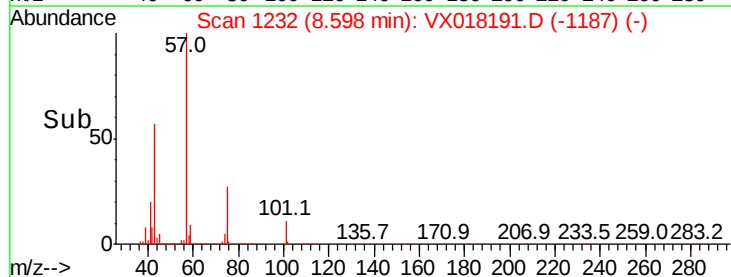
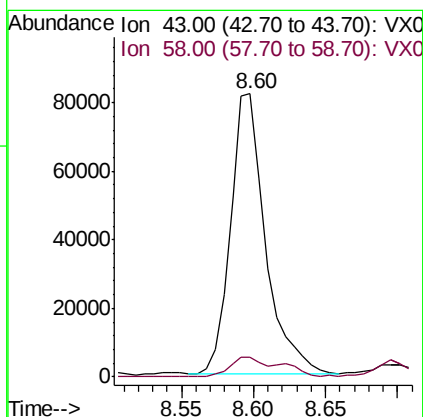
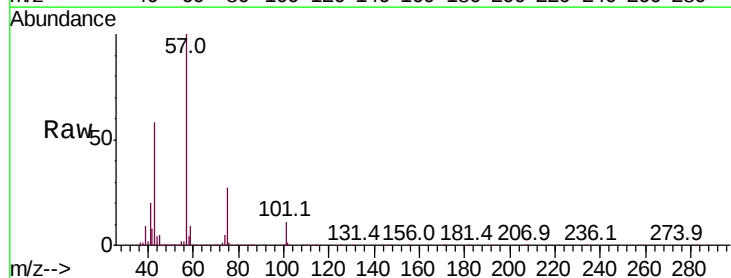
Acq: 01 Sep 2020 14:53

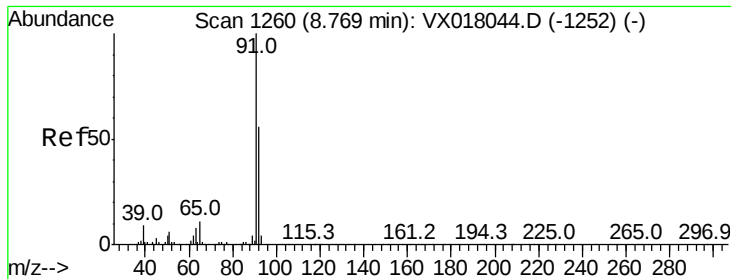
Tgt Ion: 43 Resp: 139329

Ion Ratio Lower Upper

43 100

58 10.2 30.7 46.1#





#52

Toluene

Concen: 0.208 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

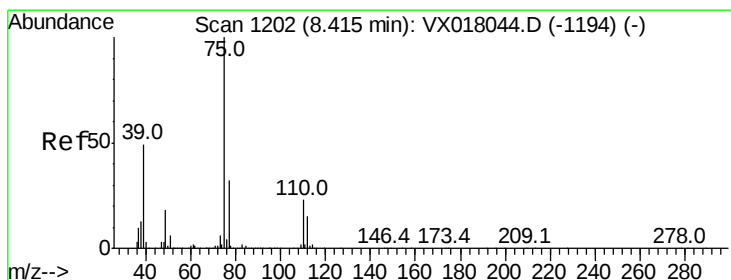
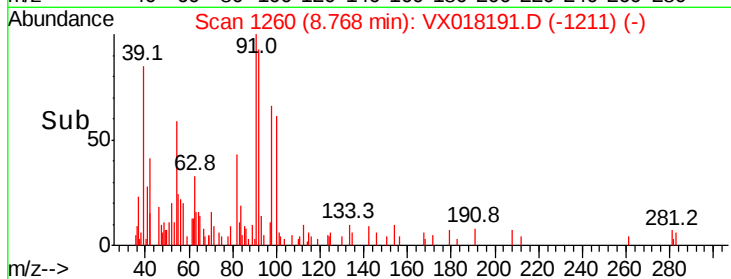
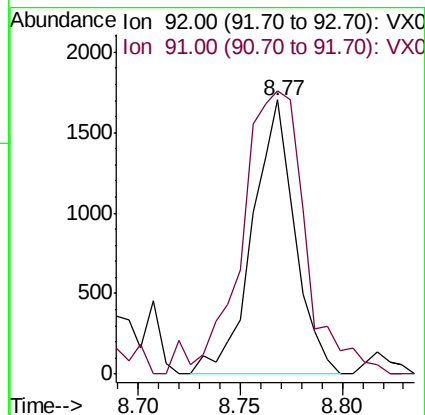
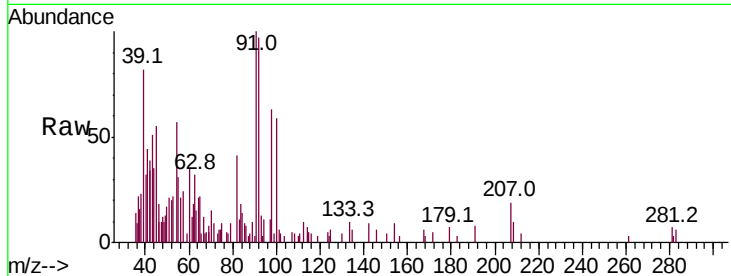
PB131314ZHE#07

Tot Ion: 92 Resp: 2466

Ion Ratio Lower Upper

92 100

91 156.4 140.3 210.5



#54

cis-1,3-Dichloropropene

Concen: 6.947 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

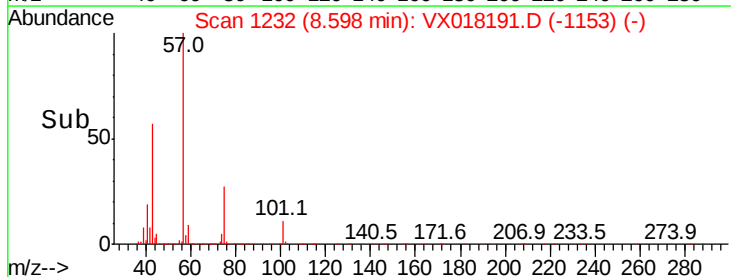
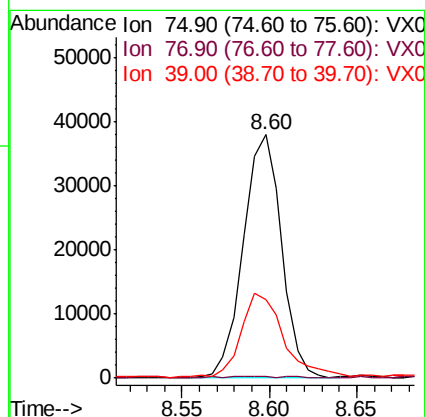
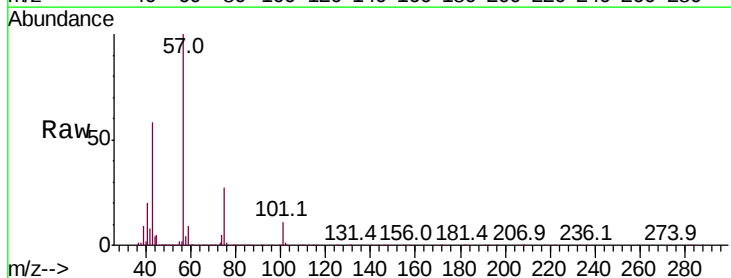
Tgt Ion: 75 Resp: 57805

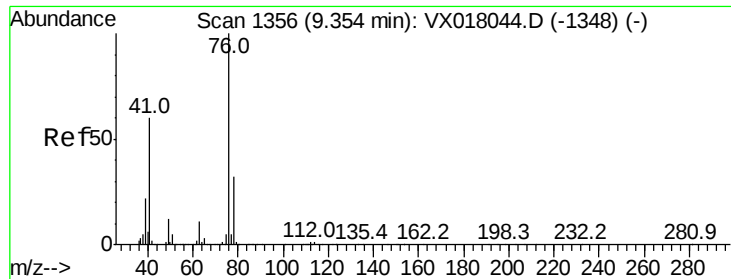
Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.8#

39 31.9 38.8 58.2#





#57

1,3-Dichloropropane

Concen: 1.201 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

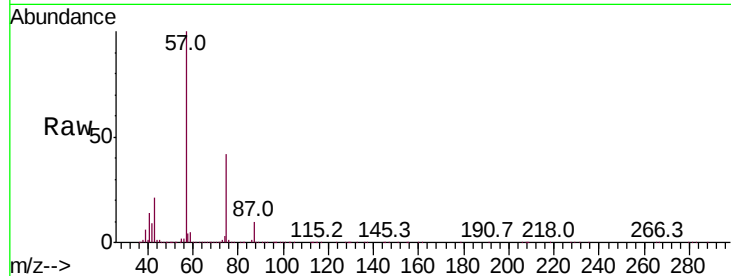
PB131314ZHE#07

Tot Ion: 76 Resp: 10032

Ion Ratio Lower Upper

76 100

78 2.2 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

8000

6000

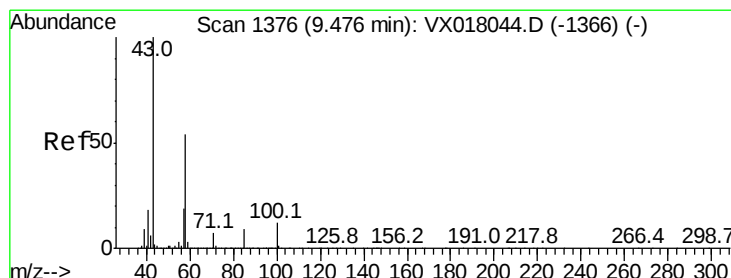
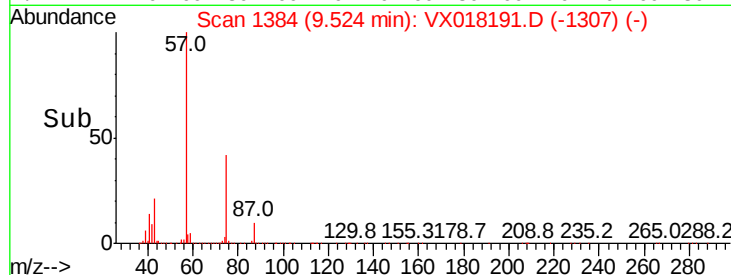
4000

2000

0

9.45 9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 27.139 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018191.D

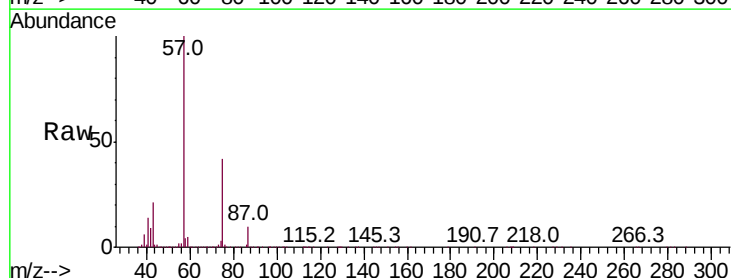
Acq: 01 Sep 2020 14:53

Tgt Ion: 43 Resp: 152421

Ion Ratio Lower Upper

43 100

58 18.9 26.6 79.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

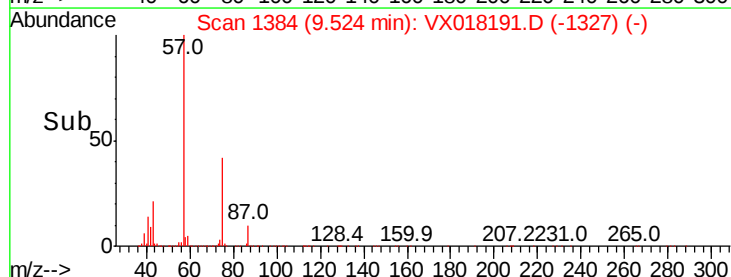
100000

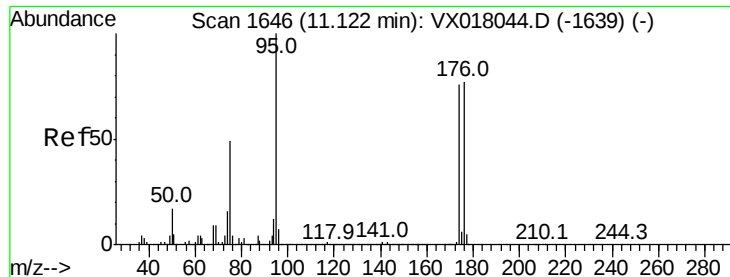
50000

0

9.45 9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 46.991 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#07

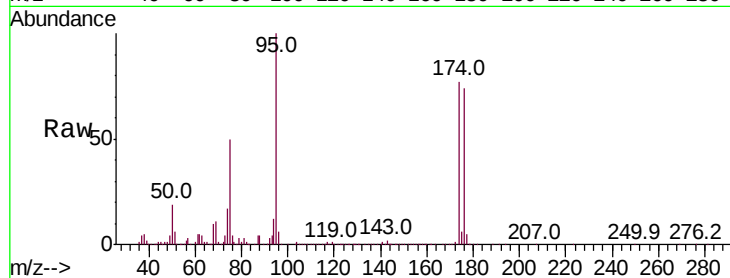
Tot Ion: 95 Resp: 324087

Ion Ratio Lower Upper

95 100

174 79.5 0.0 160.2

176 77.2 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)

11.12

300000

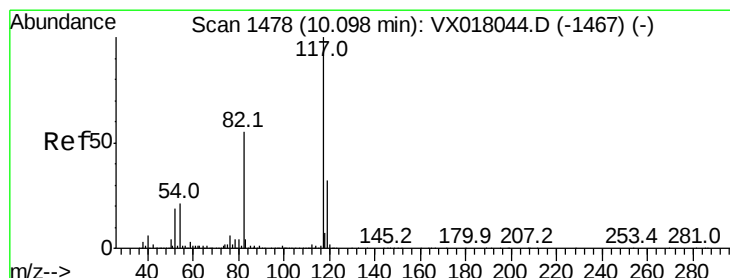
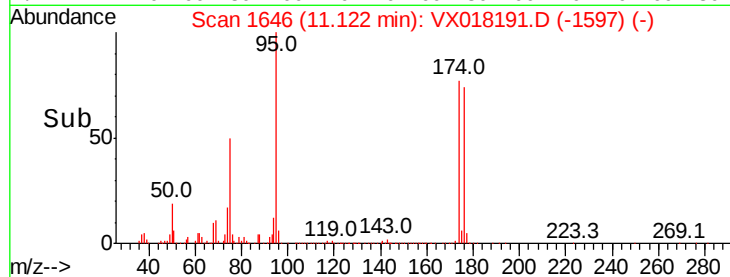
200000

100000

0

Time-->

11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

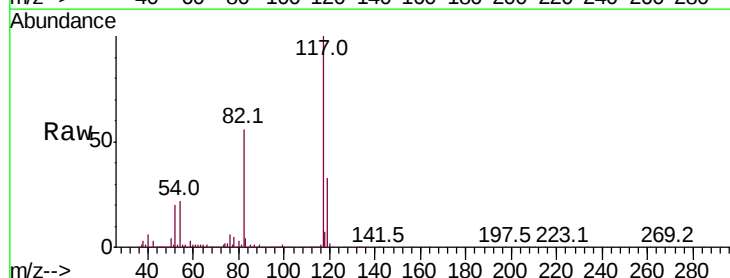
Tgt Ion: 117 Resp: 672121

Ion Ratio Lower Upper

117 100

82 56.2 44.2 66.2

119 33.0 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)

10.10

600000

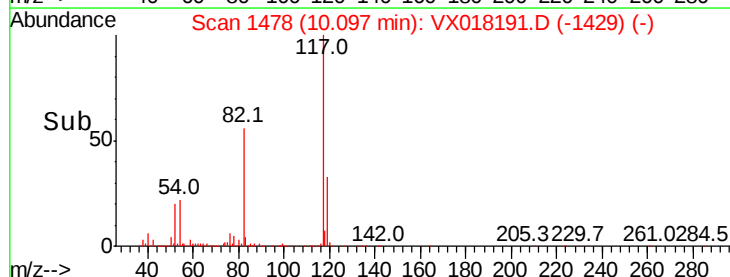
400000

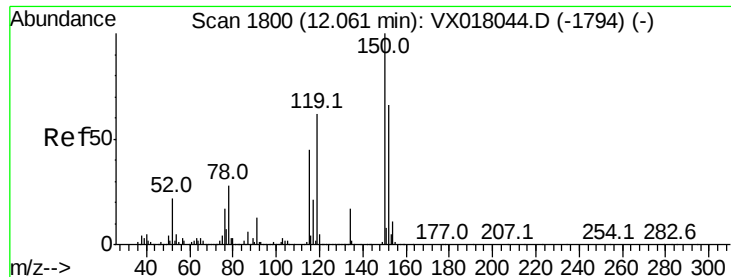
200000

0

Time-->

10.00 10.10 10.20





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#07

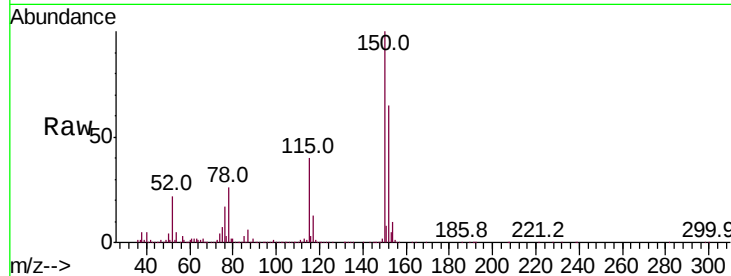
Tot Ion:152 Resp: 319584

Ion Ratio Lower Upper

152 100

115 59.6 41.5 124.5

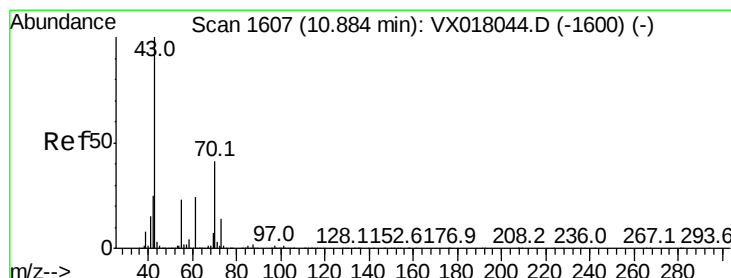
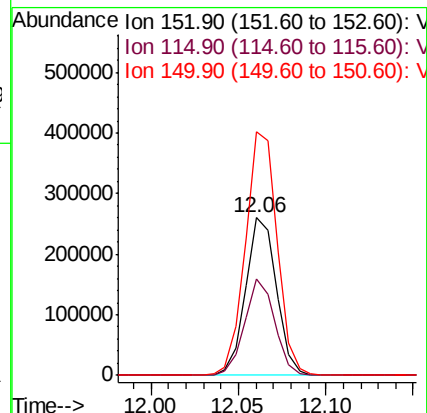
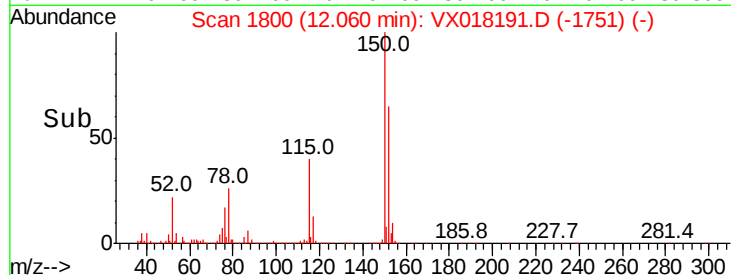
150 158.6 0.0 343.8



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: 1.097 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.08 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Tgt Ion: 43 Resp: 10969

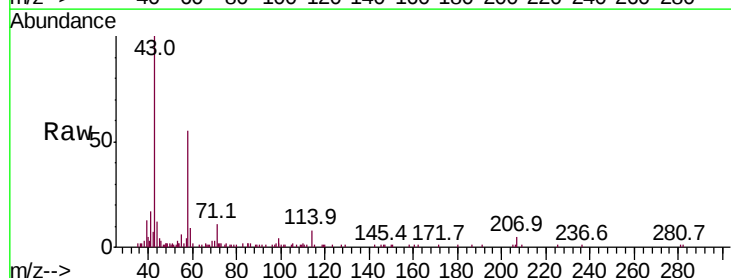
Ion Ratio Lower Upper

43 100

70 2.5 32.3 48.5#

55 15.6 18.2 27.2#

61 0.0 18.9 28.3#

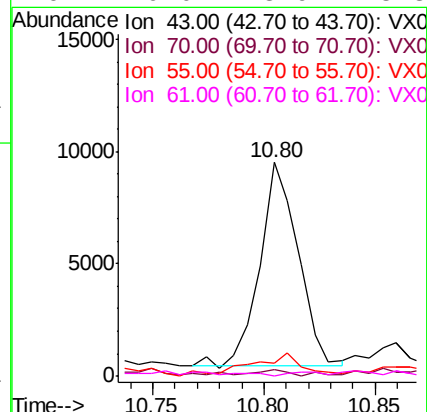
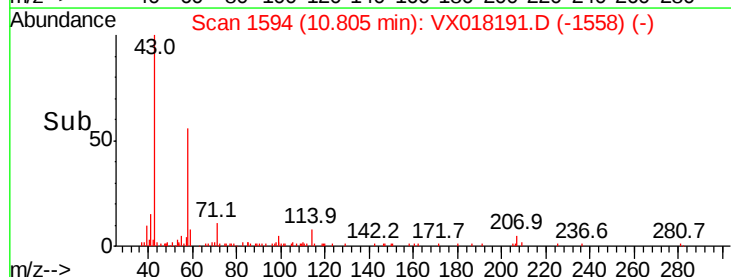


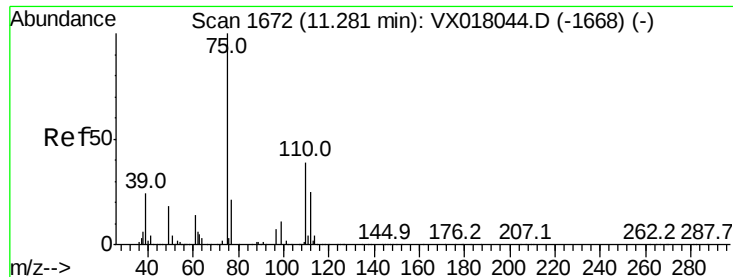
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.105 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

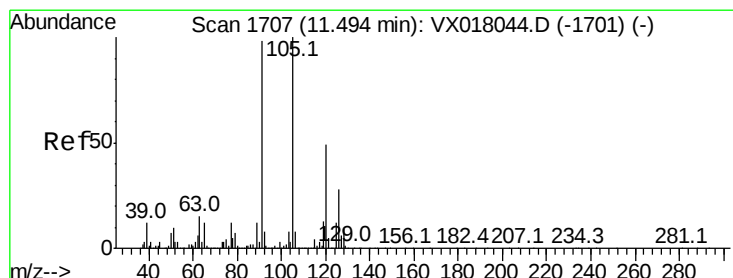
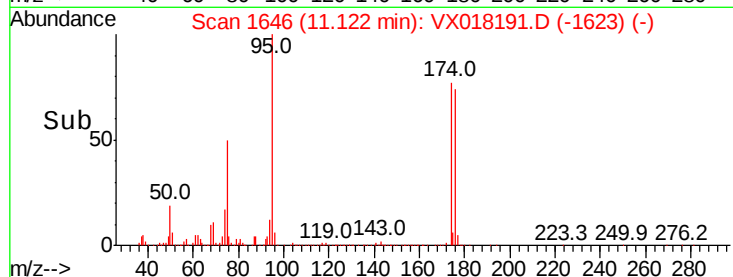
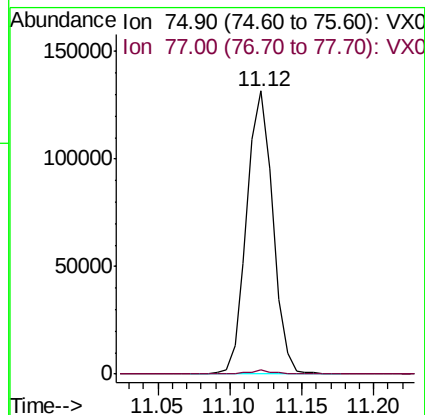
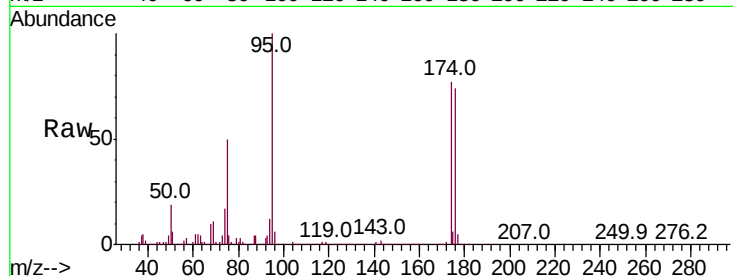
PB131314ZHE#07

Tot Ion: 75 Resp: 164257

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.333 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018191.D

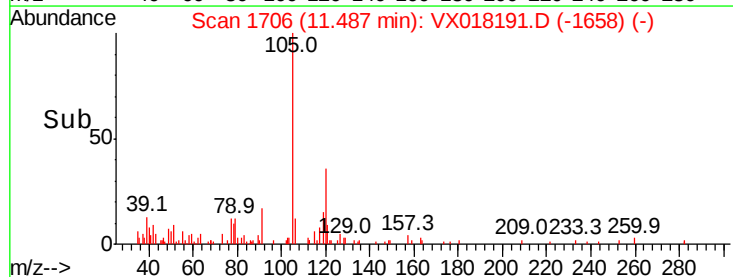
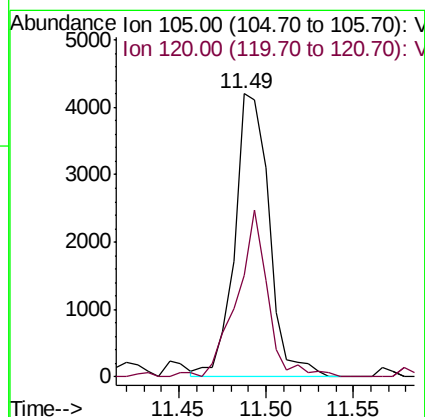
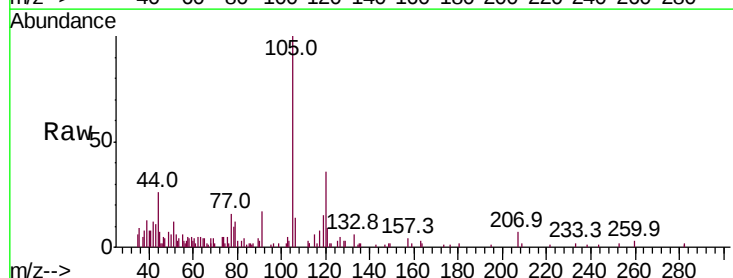
Acq: 01 Sep 2020 14:53

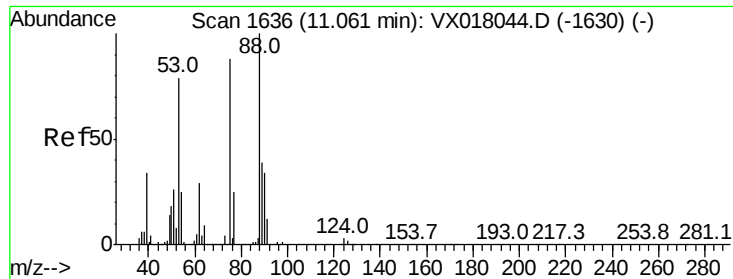
Tgt Ion: 105 Resp: 5771

Ion Ratio Lower Upper

105 100

120 52.7 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 62.402 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018191.D

Acq: 01 Sep 2020 14:53

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#07

Tot Ion: 75 Resp: 164257

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.6 54.8#

