

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090120\
 Data File : VX018192.D
 Acq On : 01 Sep 2020 15:16
 Operator : JC/SP
 Sample : PB131314ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#08

Quant Time: Sep 02 02:50:53 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	5.64	168	432245	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	722260	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	708333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	329725	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	316472	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	5.47	113	251879	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
50) Toluene-d8	8.70	98	900259	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.12	95	338811	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	

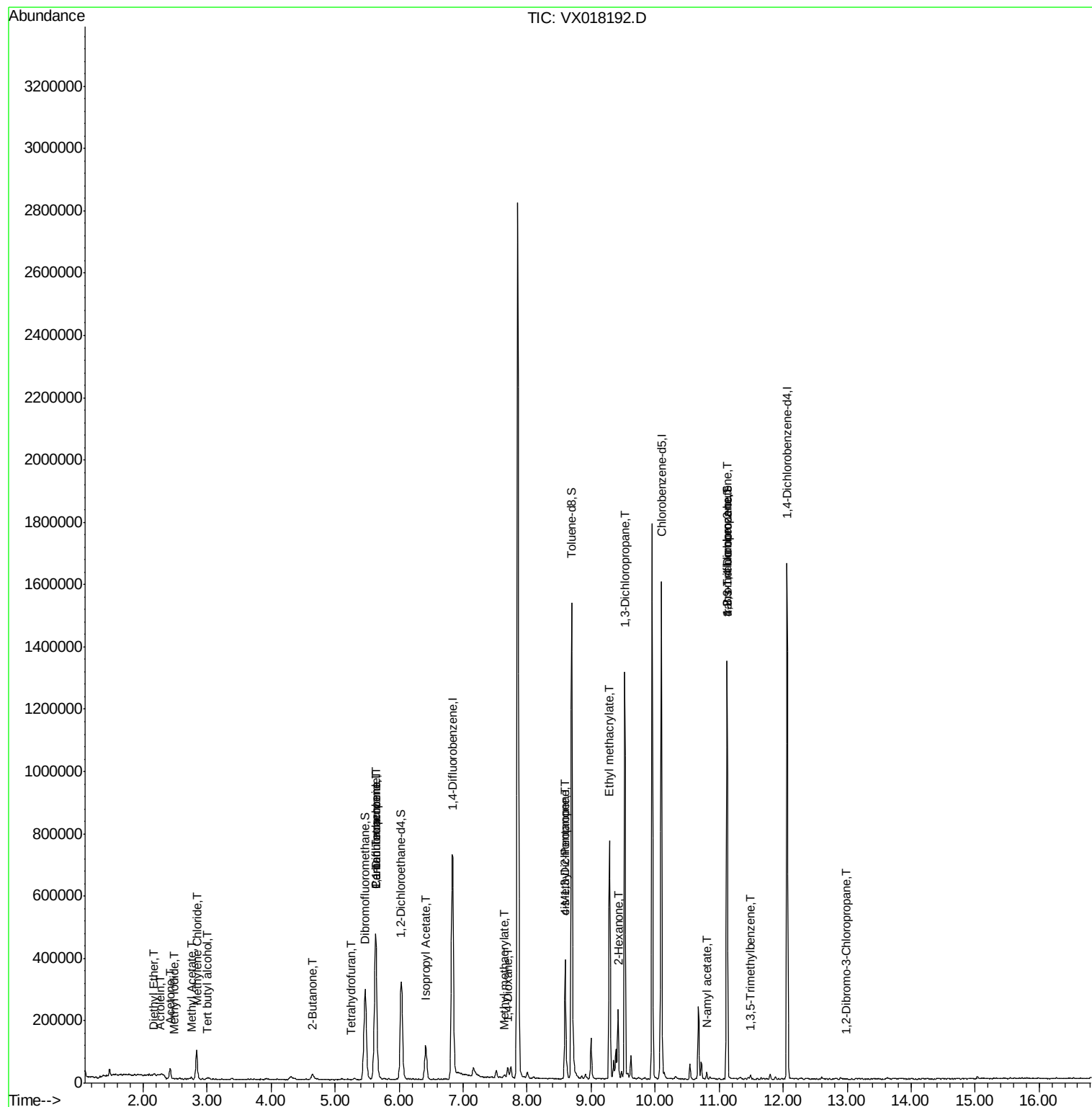
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1608	0.630	ug/l	63
10) Methyl Iodide	2.48	142	196	5.327	ug/l #	87
11) Tert butyl alcohol	3.01	59	7754	6.646	ug/l #	81
13) Acrolein	2.26	56	420	0.868	ug/l #	1
16) Acetone	2.42	43	33756	14.437	ug/l	99
18) Methyl Acetate	2.75	43	7982	1.415	ug/l	91
20) Methylene Chloride	2.83	84	44061	8.241	ug/l	98
25) 2-Butanone	4.65	43	27725	7.215	ug/l	98
29) Tetrahydrofuran	5.25	42	560	0.229	ug/l	94
36) 1,1-Dichloropropene	5.63	75	34582	5.191	ug/l #	51
38) Carbon Tetrachloride	5.64	117	45607	6.075	ug/l #	17
43) Isopropyl Acetate	6.42	43	149833	11.990	ug/l	99
48) Methyl methacrylate	7.65	41	9387	1.509	ug/l #	16
49) 1,4-Dioxane	7.70	88	336	2.982	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	138017	17.879	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	58838	6.765	ug/l #	62
56) Ethyl methacrylate	9.28	69	3631	0.461	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	10793	1.236	ug/l #	48
59) 2-Hexanone	9.42	43	139000	23.680	ug/l #	25
74) N-amyl acetate	10.80	43	11031	1.069	ug/l #	50
76) 1,2,3-Trichloropropane	11.12	75	176549	24.070	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	5652	0.316	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.12	75	176549	65.009	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	475	0.248	ug/l #	4

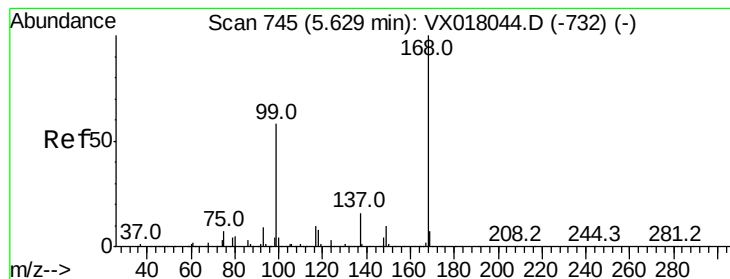
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 02 02:50:53 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: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

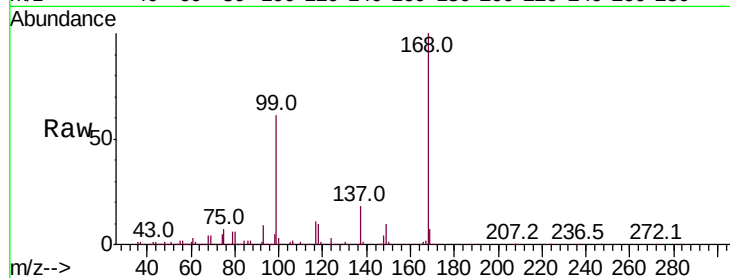
PB131314ZHE#08

Tot Ion:168 Resp: 432245

Ion Ratio Lower Upper

168 100

99 60.7 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

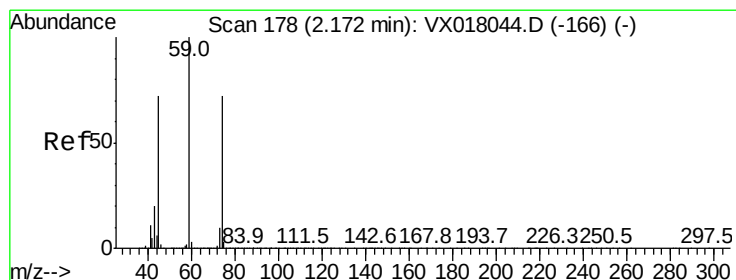
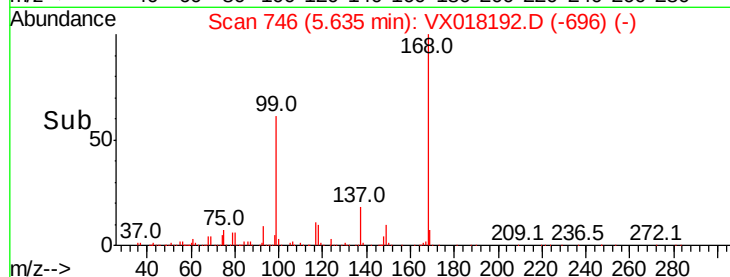
100000

50000

0

5.50 5.60 5.70

Time-->



#8

Diethyl Ether

Concen: 0.630 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VX018192.D

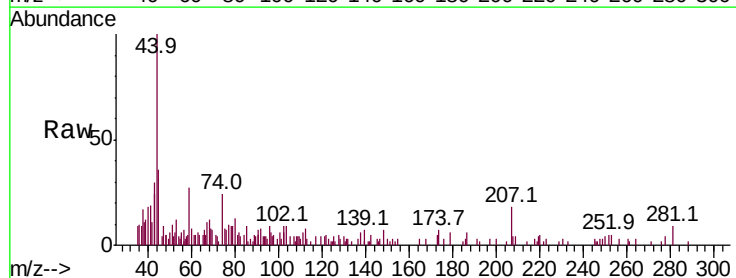
Acq: 01 Sep 2020 15:16

Tgt Ion: 74 Resp: 1608

Ion Ratio Lower Upper

74 100

45 63.9 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2000

1500

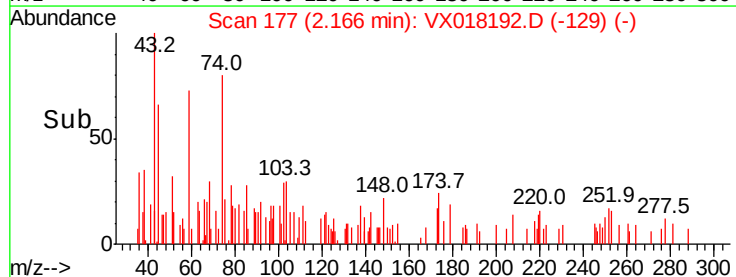
1000

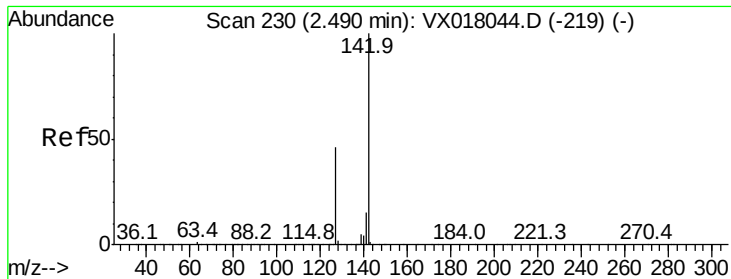
500

0

2.10 2.15 2.20 2.25

Time-->

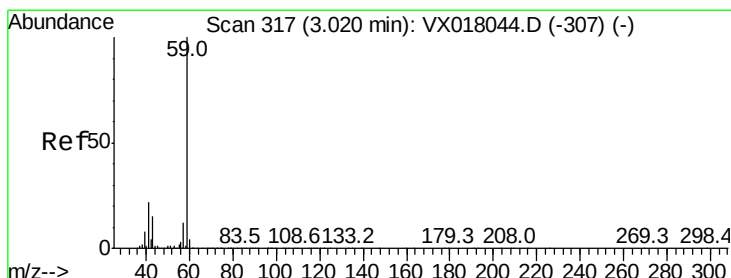
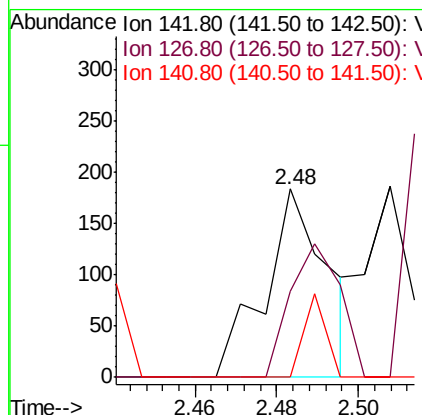
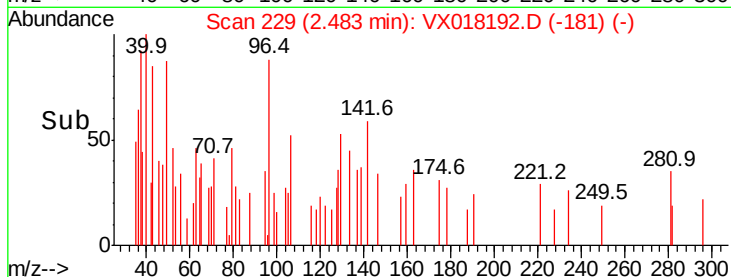
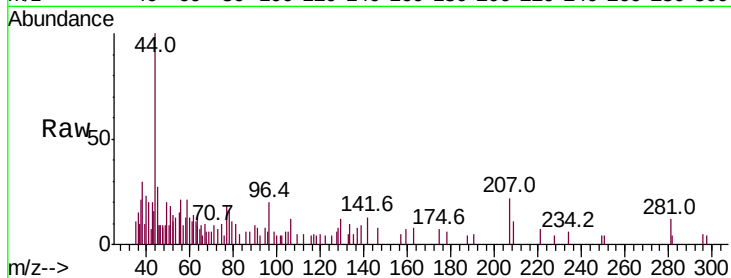




#10
Methvl Iodide
Concen: 5.327 ug/l
RT: 2.48 min Scan# 229
Delta R.T. -0.01 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

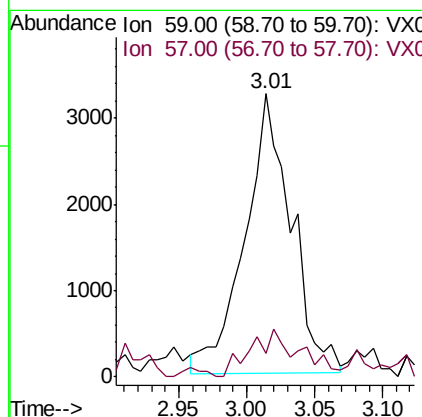
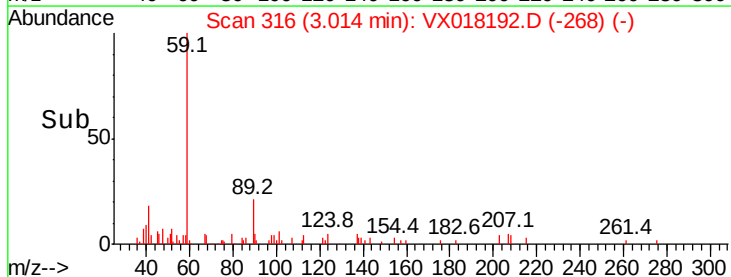
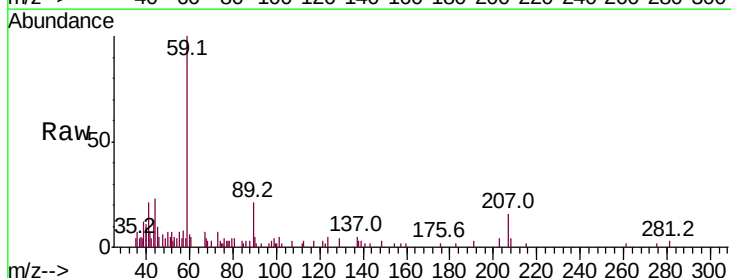
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#08

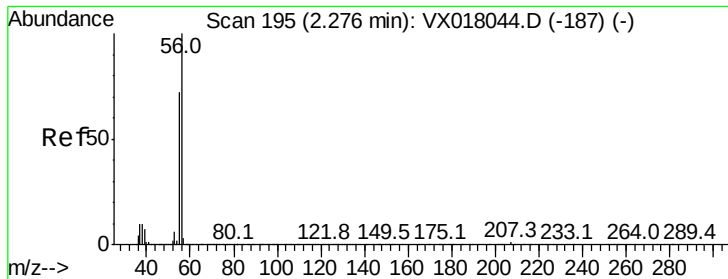
Tot Ion:142 Resp: 196
Ion Ratio Lower Upper
142 100
127 57.1 37.0 55.6#
141 15.3 11.5 17.3



#11
Tert butyl alcohol
Concen: 6.646 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

Tgt Ion: 59 Resp: 7754
Ion Ratio Lower Upper
59 100
57 18.3 8.9 13.3#





#13

Acrolein

Concen: 0.868 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

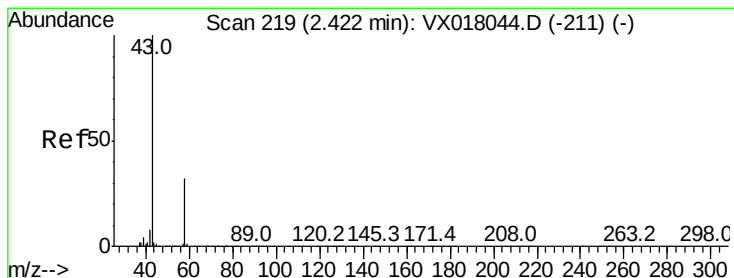
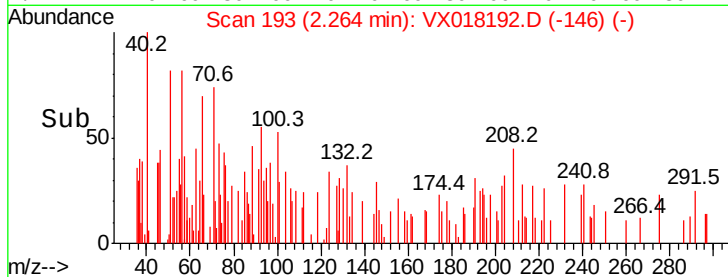
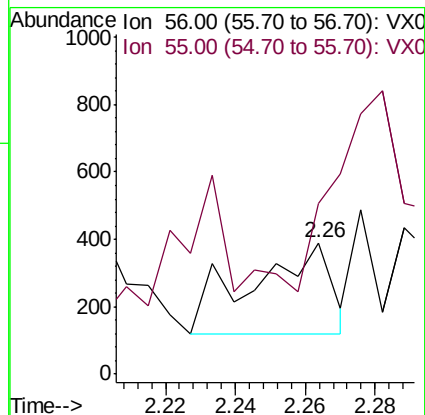
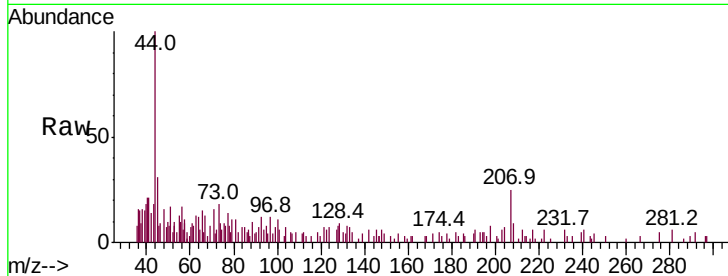
PB131314ZHE#08

Tot Ion: 56 Resp: 420

Ion Ratio Lower Upper

56 100

55 324.3 57.0 85.6#



#16

Acetone

Concen: 14.437 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018192.D

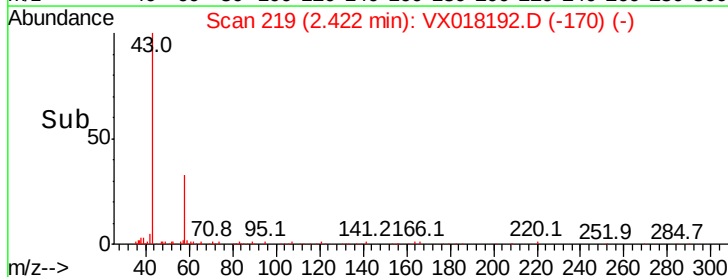
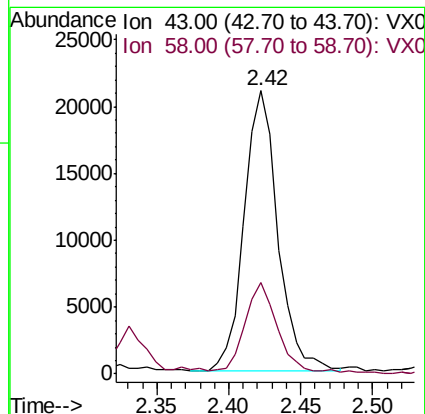
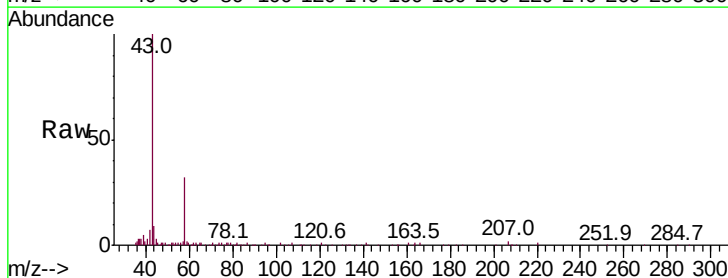
Acq: 01 Sep 2020 15:16

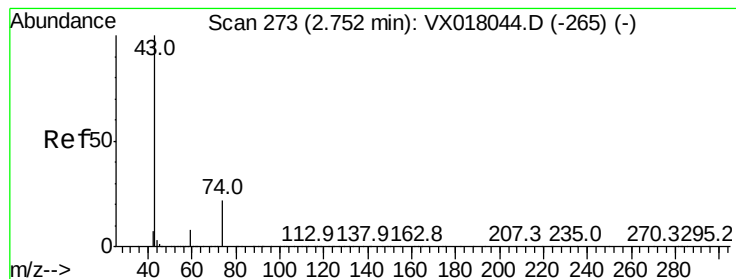
Tgt Ion: 43 Resp: 33756

Ion Ratio Lower Upper

43 100

58 31.3 25.5 38.3





#18

Methvl Acetate

Concen: 1.415 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

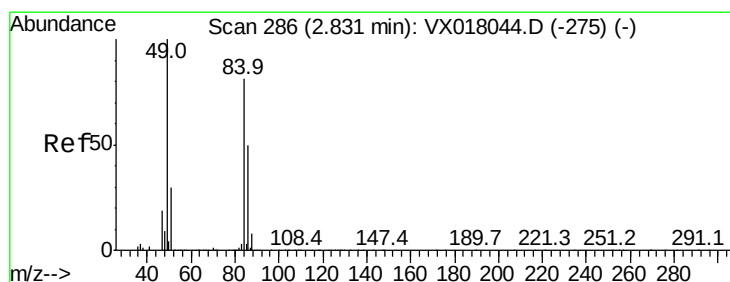
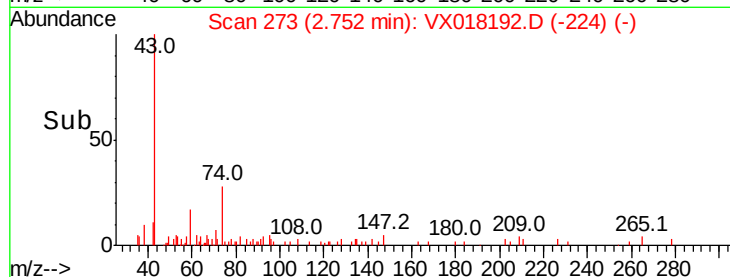
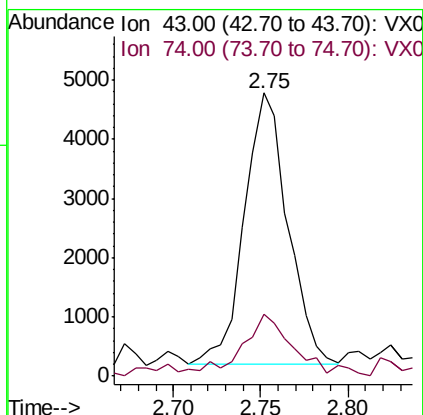
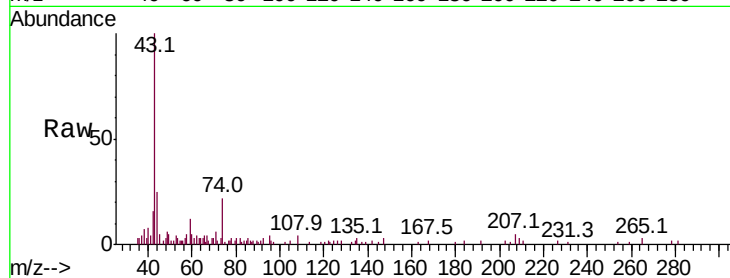
PB131314ZHE#08

Tot Ion: 43 Resp: 7982

Ion Ratio Lower Upper

43 100

74 27.2 18.2 27.4



#20

Methylene Chloride

Concen: 8.241 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Tgt Ion: 84 Resp: 44061

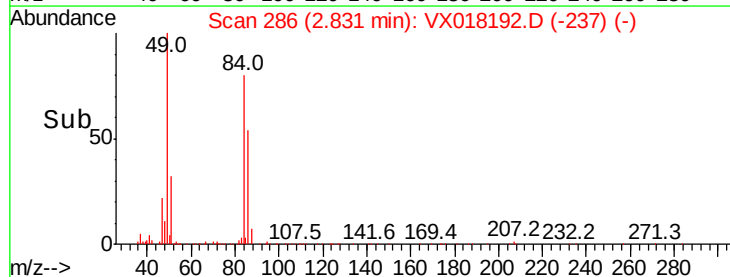
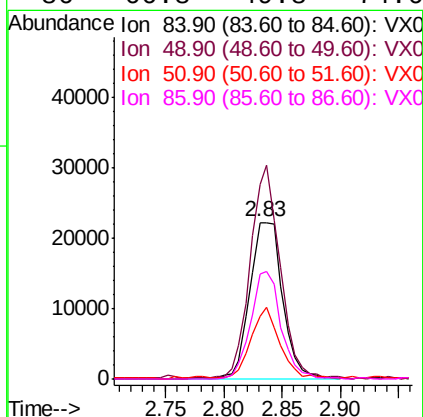
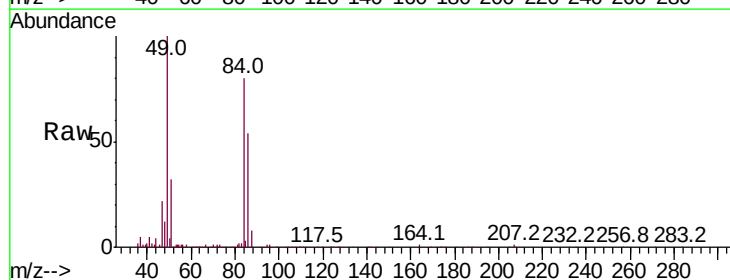
Ion Ratio Lower Upper

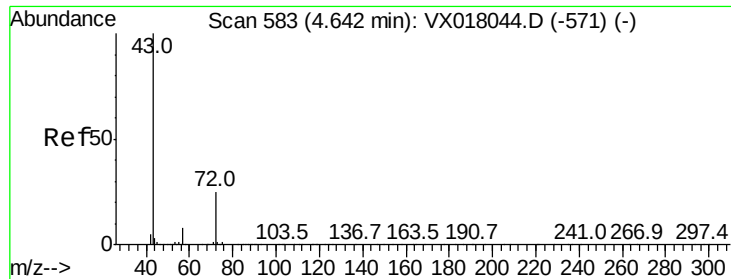
84 100

49 123.6 98.6 148.0

51 39.2 29.6 44.4

86 66.8 49.8 74.6

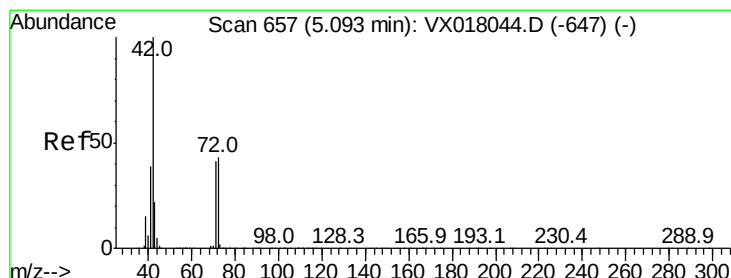
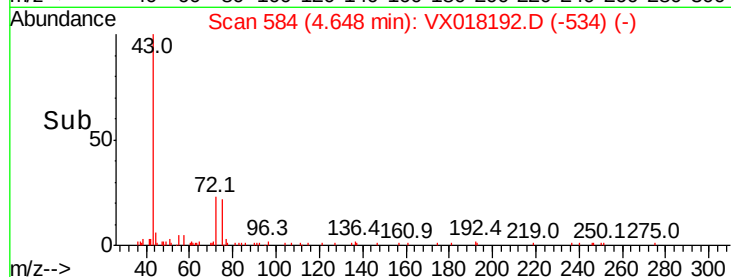
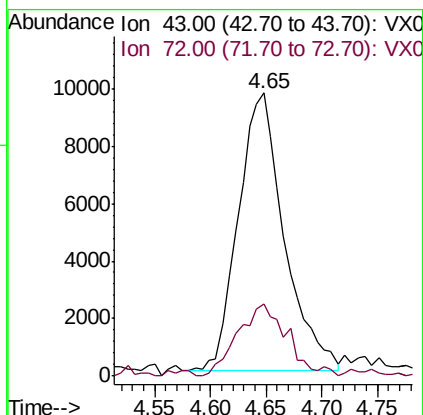
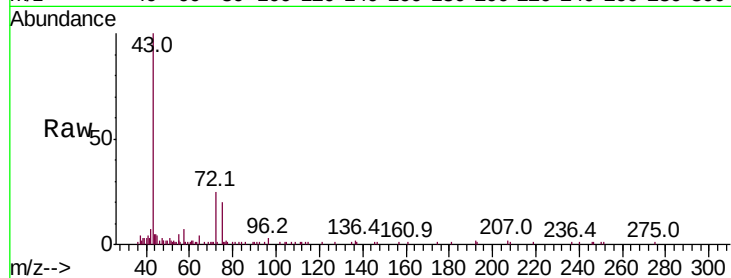




#25
2-Butanone
Concen: 7.215 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

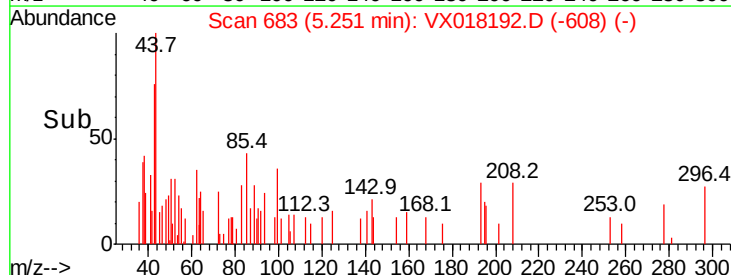
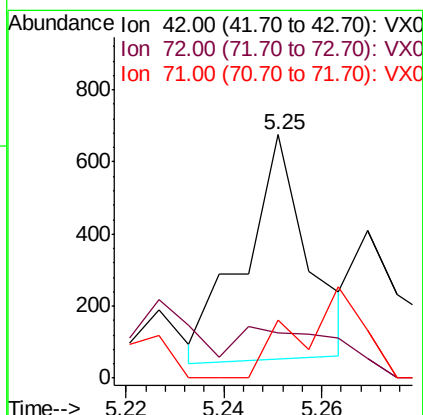
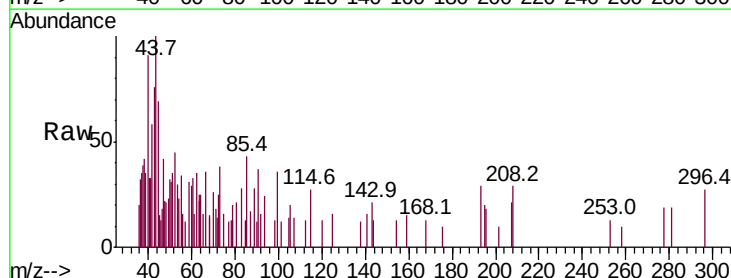
Instrument :
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ClientSampleId :
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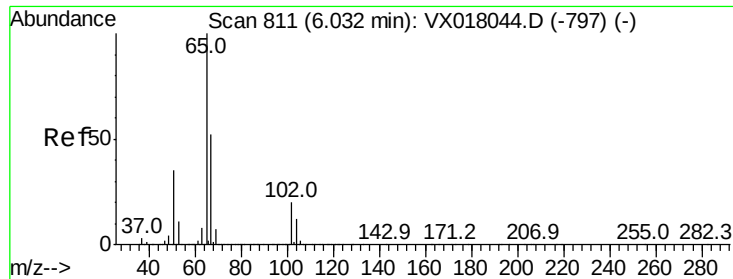
Tot Ion: 43 Resp: 27725
Ion Ratio Lower Upper
43 100
72 25.8 19.8 29.6



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 5.25 min Scan# 683
Delta R.T. 0.16 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

Tgt Ion: 42 Resp: 560
Ion Ratio Lower Upper
42 100
72 36.4 34.2 51.4
71 41.3 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 52.739 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

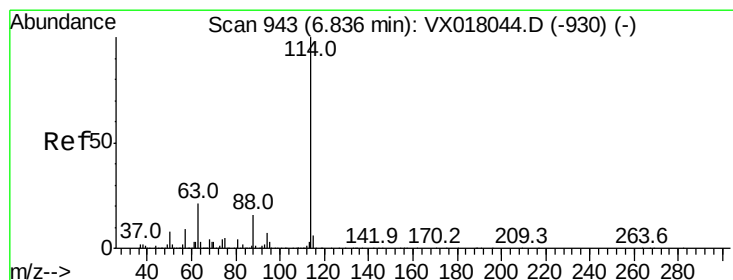
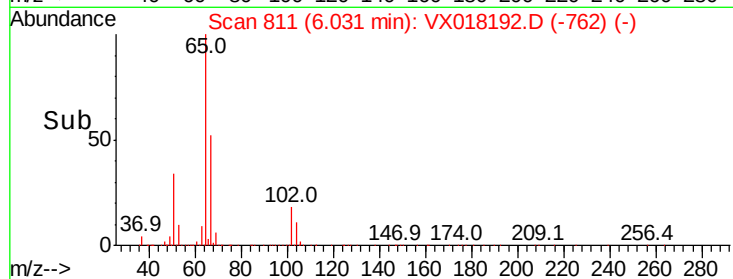
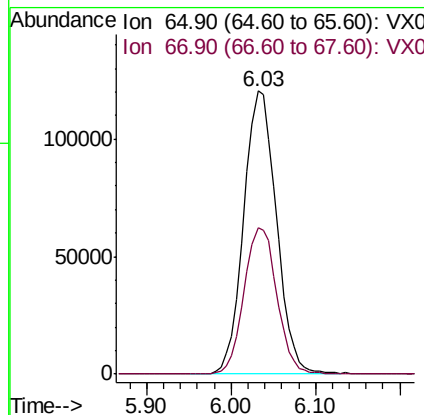
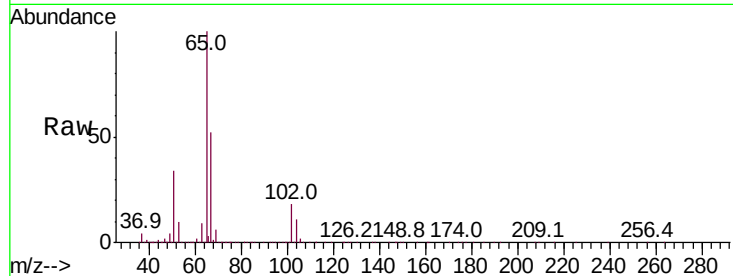
Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#08

Tot Ion: 65 Resp: 316472

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

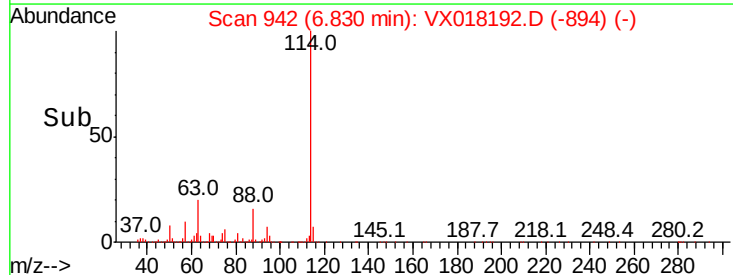
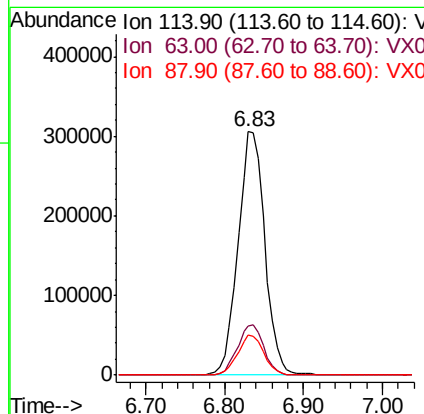
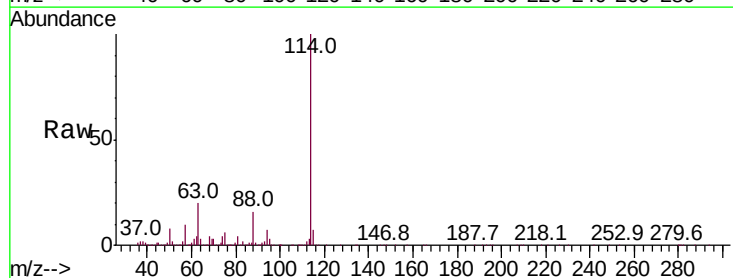
Delta R.T. -0.01 min

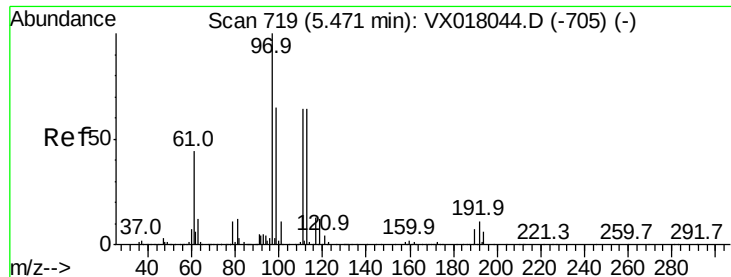
Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Tgt Ion: 114 Resp: 722260

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	16.2	0.0	31.8





#35

Dibromofluoromethane

Concen: 51.206 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#08

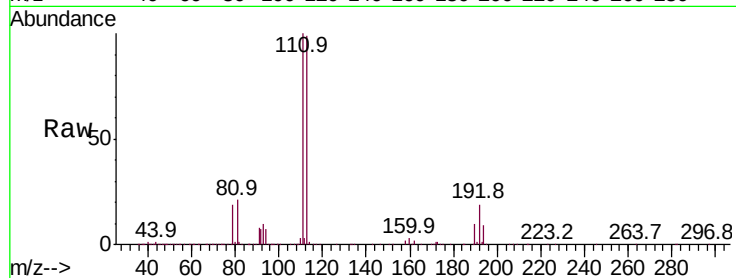
Tot Ion:113 Resp: 251879

Ion Ratio Lower Upper

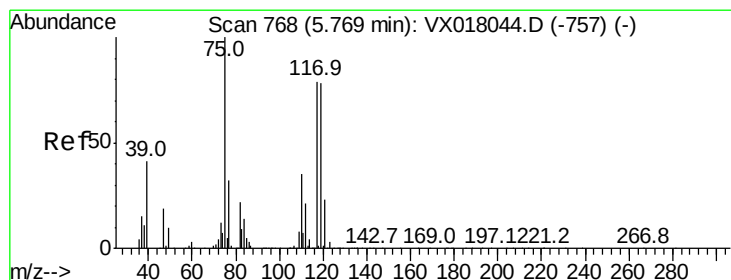
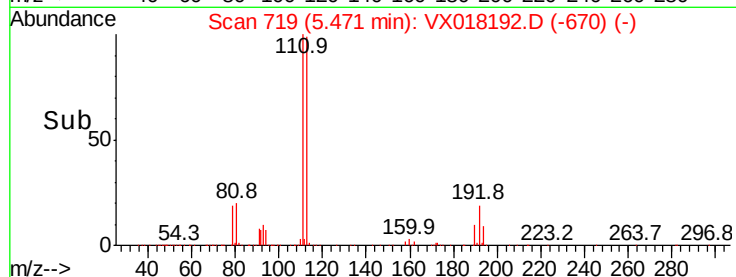
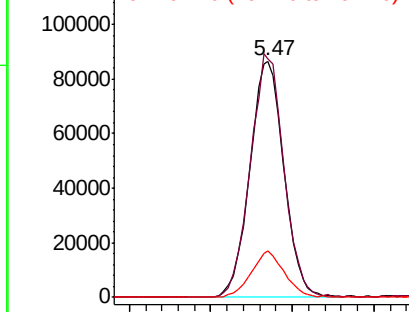
113 100

111 101.6 81.6 122.4

192 19.0 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: 5.191 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

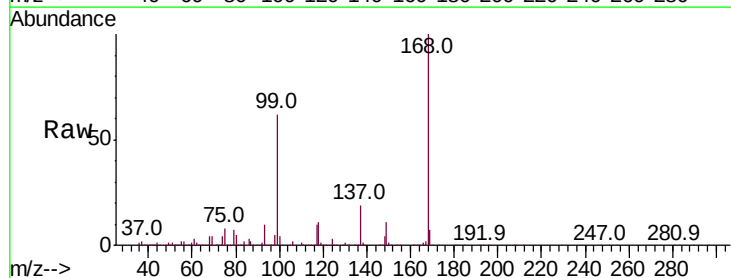
Tgt Ion: 75 Resp: 34582

Ion Ratio Lower Upper

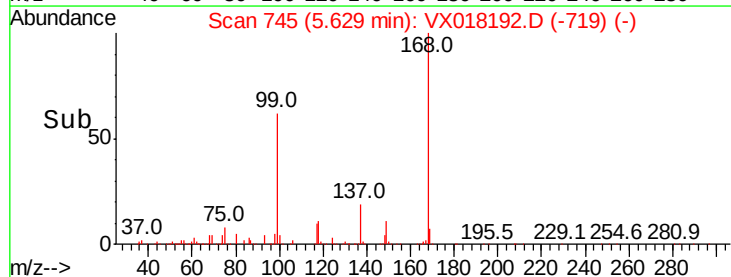
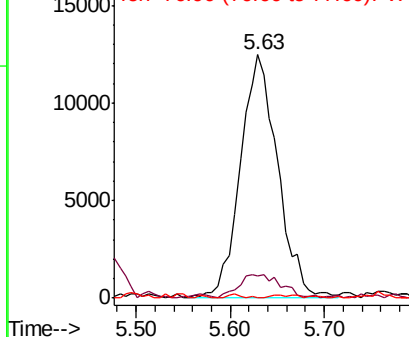
75 100

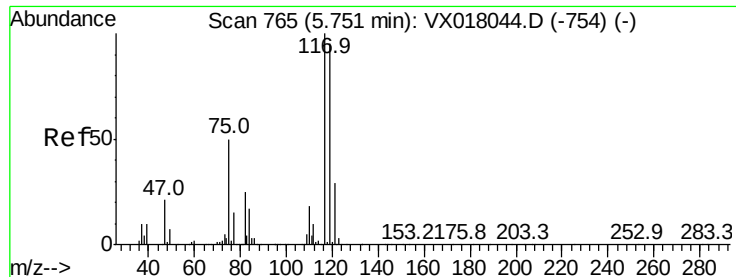
110 10.9 18.0 54.0#

77 0.0 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: 6.075 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#08

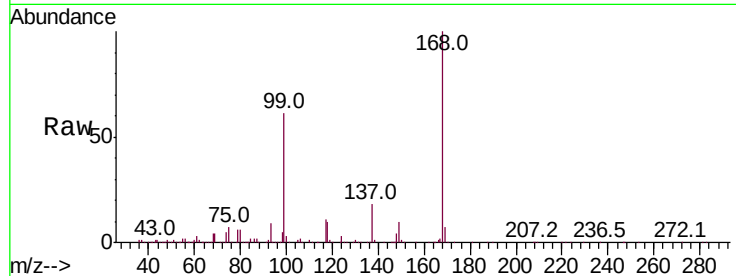
Tot Ion:117 Resp: 45607

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.6#

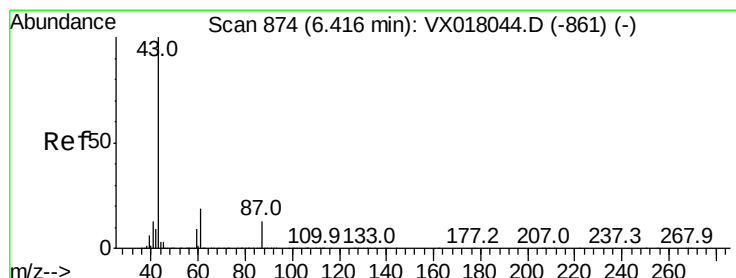
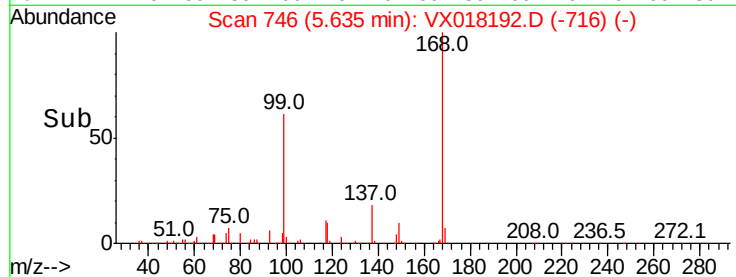
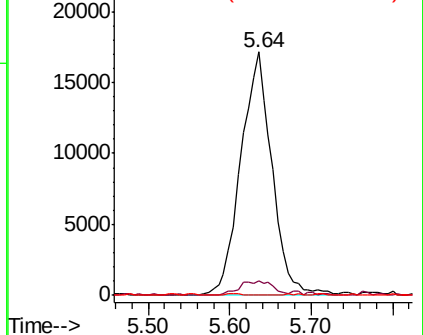
121 0.0 23.4 35.0#



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: 11.990 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

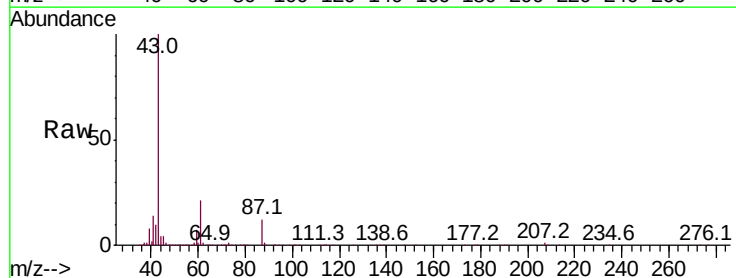
Tgt Ion: 43 Resp: 149833

Ion Ratio Lower Upper

43 100

61 18.9 15.7 23.5

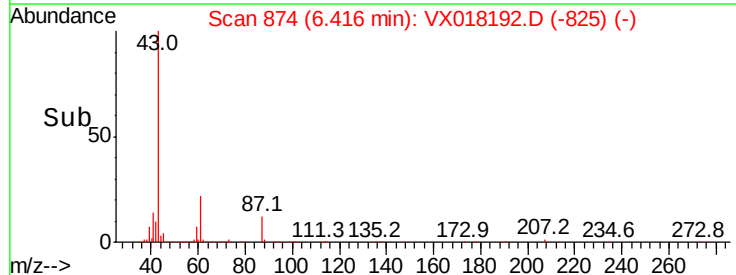
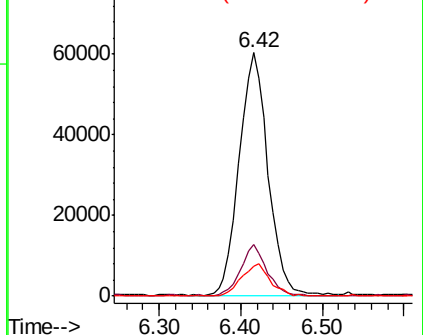
87 13.3 10.3 15.5

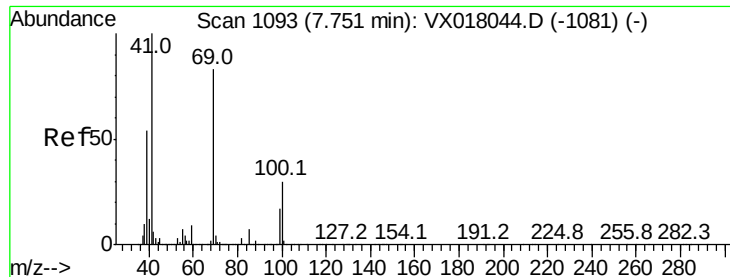


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

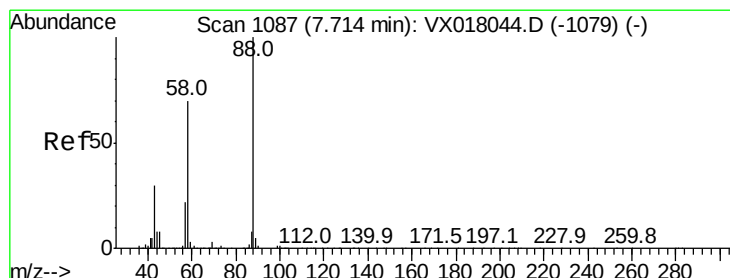
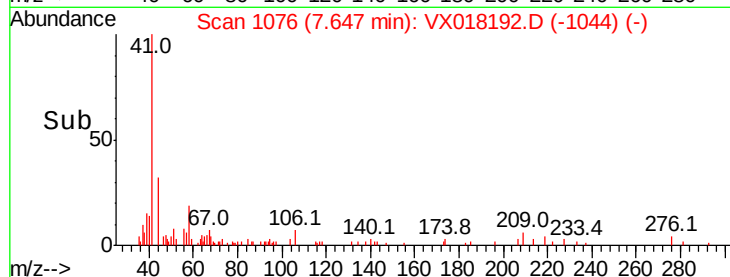
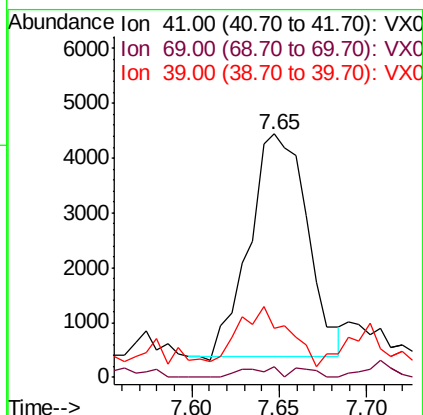
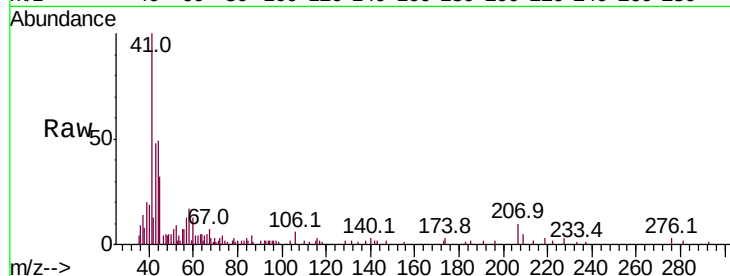




#48
Methvl methacrylate
Concen: 1.509 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

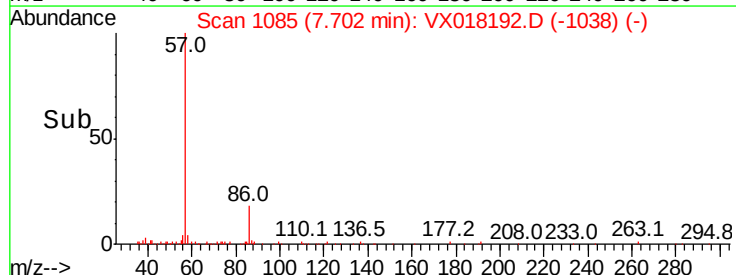
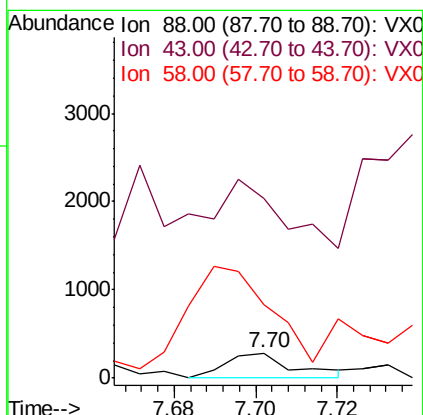
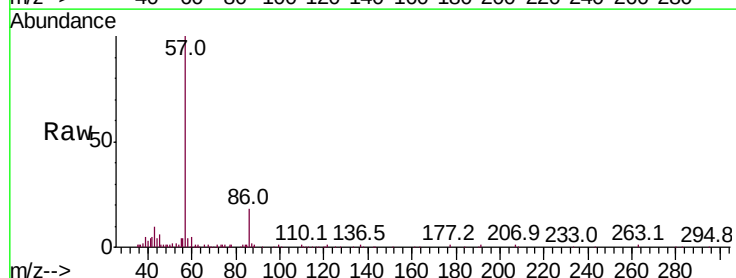
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#08

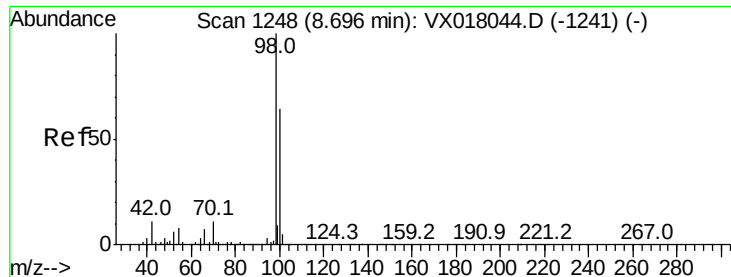
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.8	65.5	98.3#
39	0.0	44.5	66.7#



#49
1,4-Dioxane
Concen: 2.982 ug/l
RT: 7.70 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	503.6	56.4	84.6#

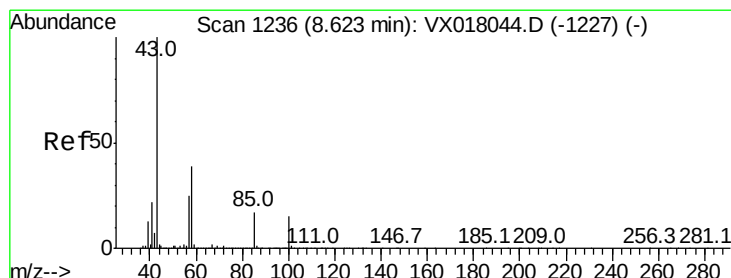
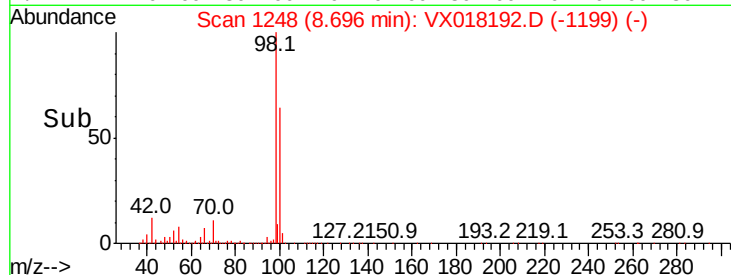
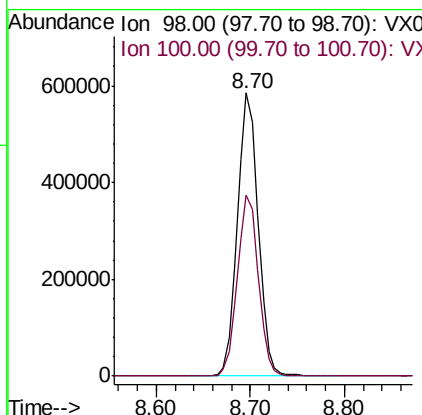
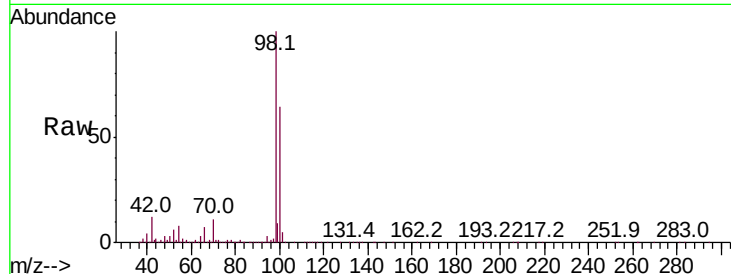




#50
Toluene-d8
Concen: 49.138 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

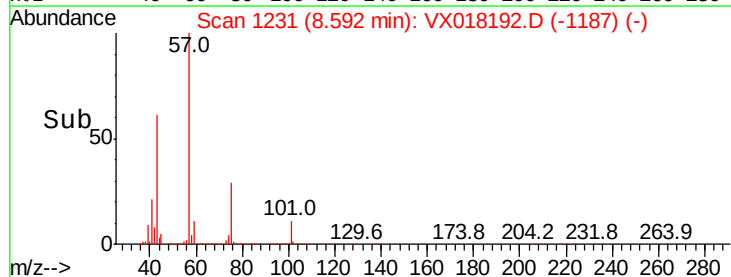
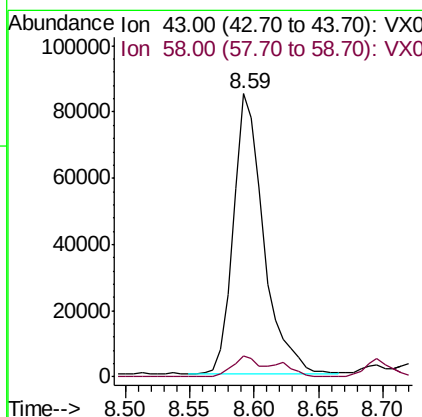
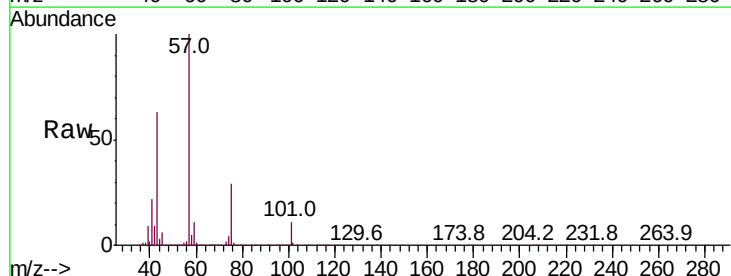
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#08

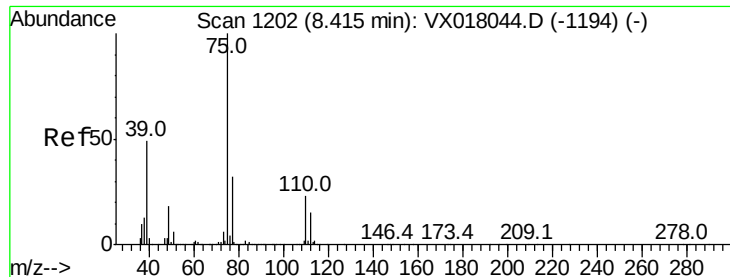
Tot Ion: 98 Resp: 900259
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 17.879 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

Tgt Ion: 43 Resp: 138017
Ion Ratio Lower Upper
43 100
58 6.8 30.7 46.1#



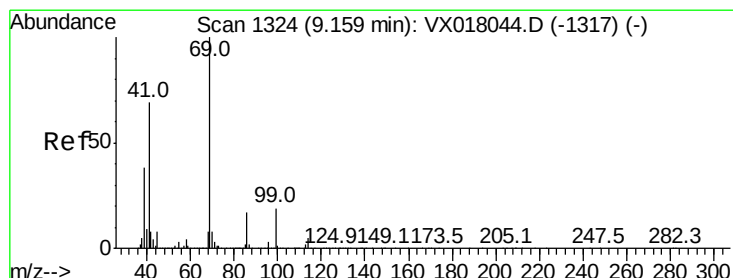
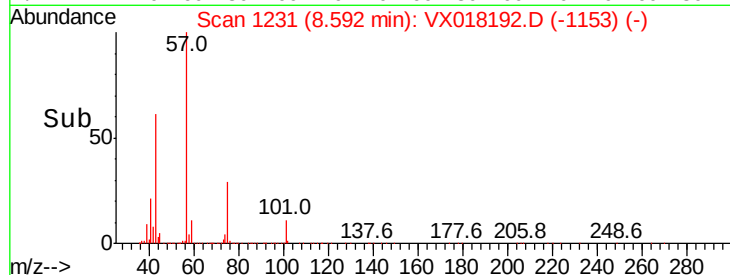
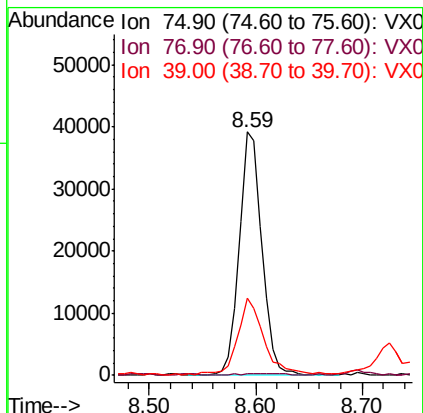
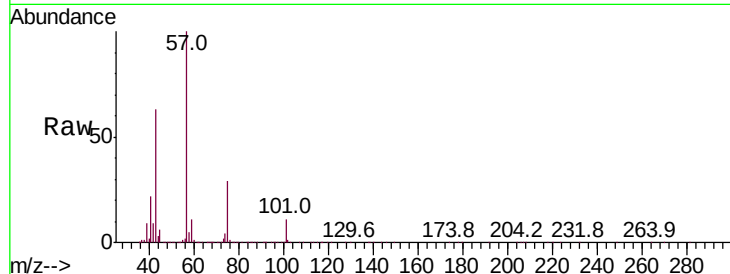


#54

cis-1,3-Dichloropropene
Concen: 6.765 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. 0.18 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#08

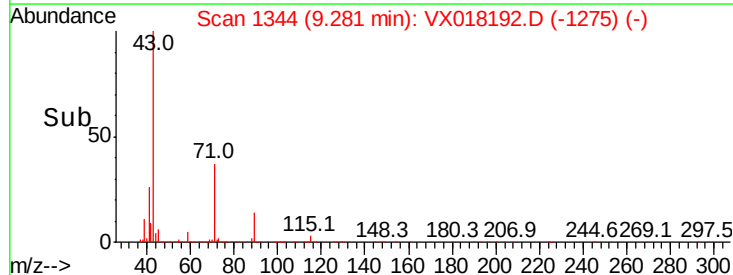
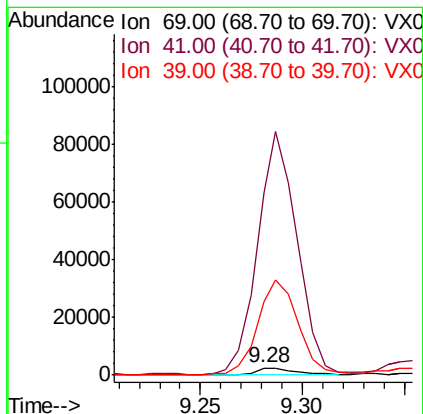
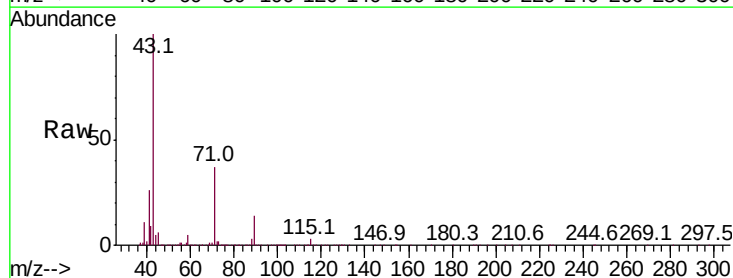
Tot Ion: 75 Resp: 58838
Ion Ratio Lower Upper
75 100
77 0.2 25.8 38.8#
39 31.3 38.8 58.2#

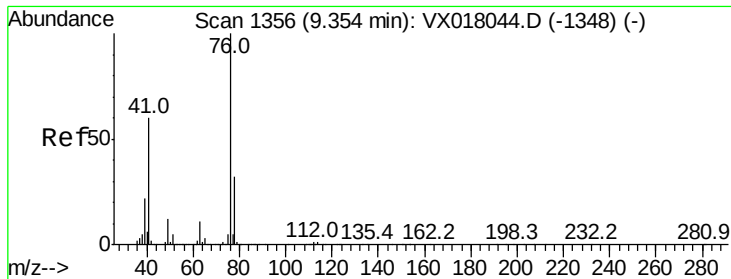


#56

Ethyl methacrylate
Concen: 0.461 ug/l
RT: 9.28 min Scan# 1344
Delta R.T. 0.12 min
Lab File: VX018192.D
Acq: 01 Sep 2020 15:16

Tgt Ion: 69 Resp: 3631
Ion Ratio Lower Upper
69 100
41 3137.6 54.6 81.8#
39 1248.2 29.1 43.7#





#57

1,3-Dichloropropane

Concen: 1.236 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

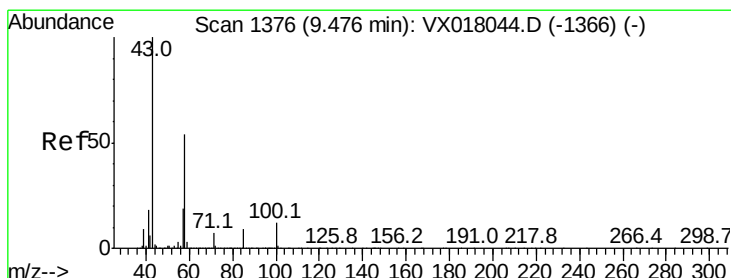
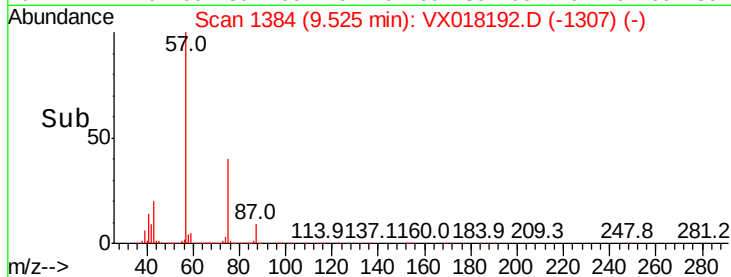
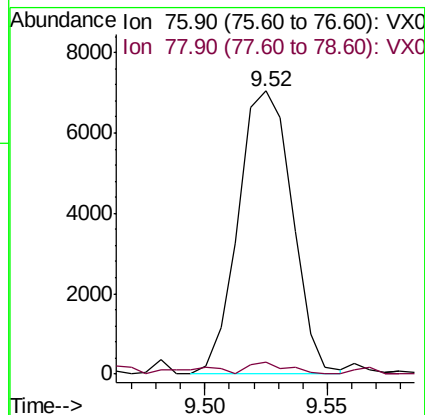
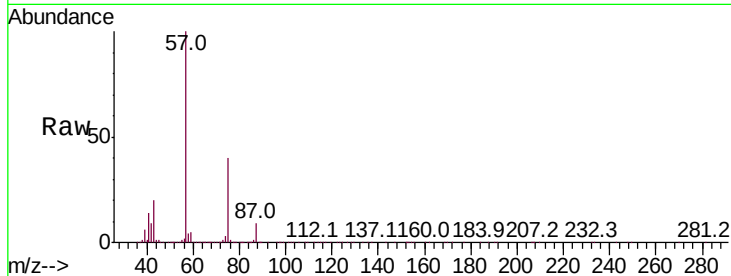
PB131314ZHE#08

Tot Ion: 76 Resp: 10793

Ion Ratio Lower Upper

76 100

78 3.0 25.8 38.6#



#59

2-Hexanone

Concen: 23.680 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX018192.D

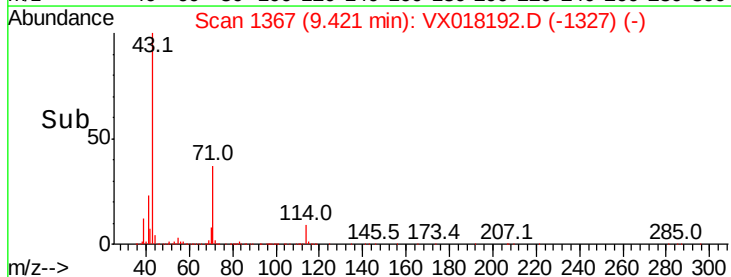
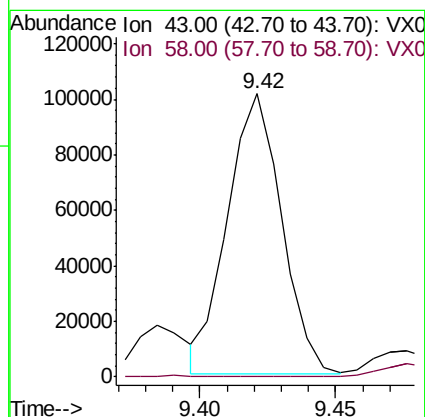
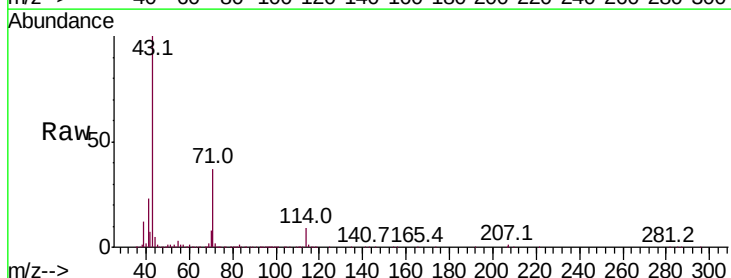
Acq: 01 Sep 2020 15:16

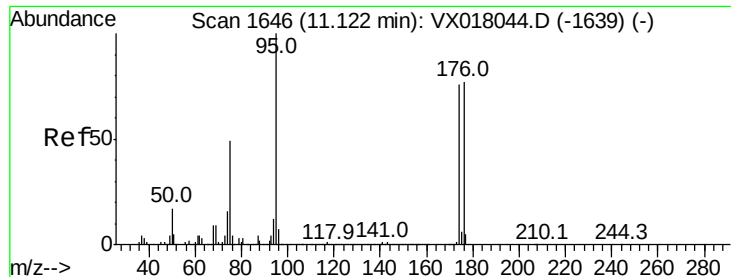
Tgt Ion: 43 Resp: 139000

Ion Ratio Lower Upper

43 100

58 0.0 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 47.004 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#08

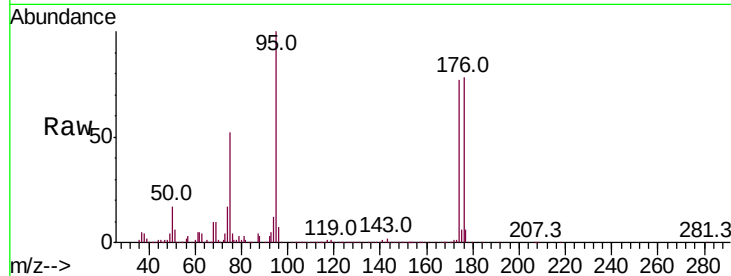
Tot Ion: 95 Resp: 338811

Ion Ratio Lower Upper

95 100

174 79.8 0.0 160.2

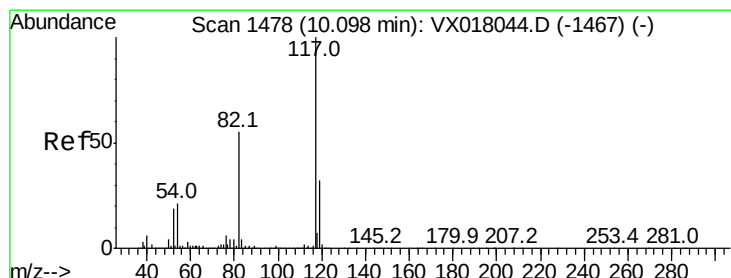
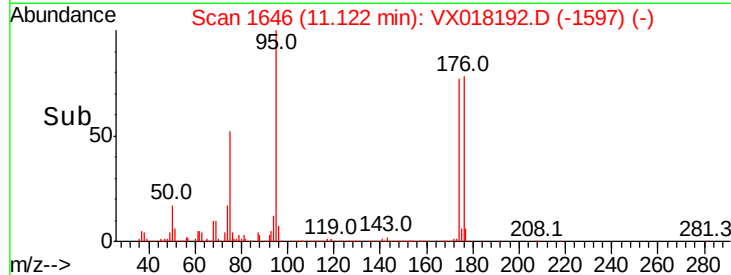
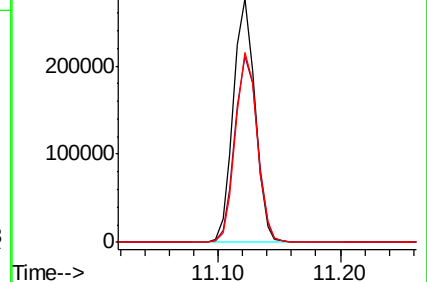
176 77.9 0.0 155.8



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

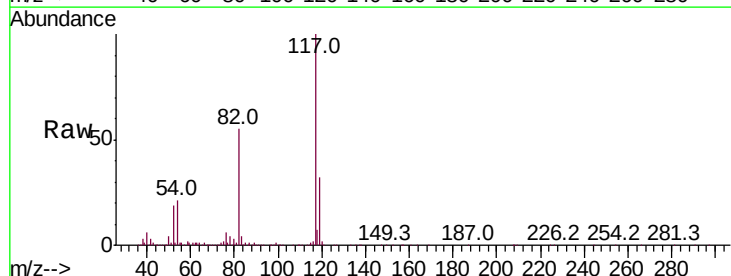
Tgt Ion: 117 Resp: 708333

Ion Ratio Lower Upper

117 100

82 55.2 44.2 66.2

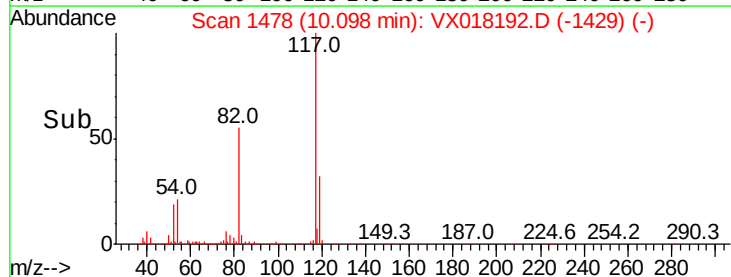
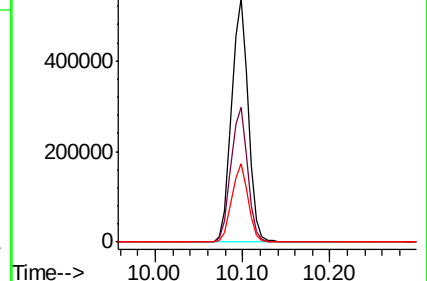
119 32.3 25.7 38.5

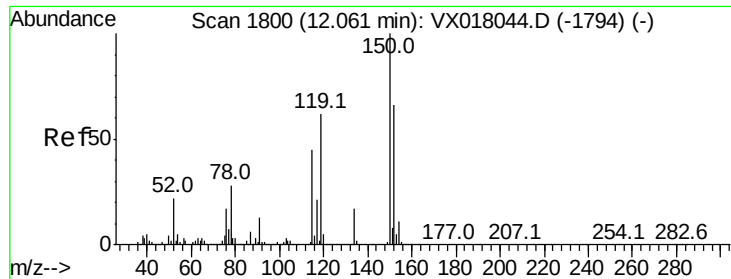


Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#08

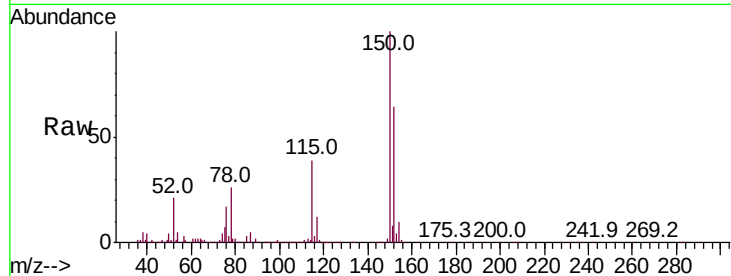
Tot Ion:152 Resp: 329725

Ion Ratio Lower Upper

152 100

115 60.1 41.5 124.5

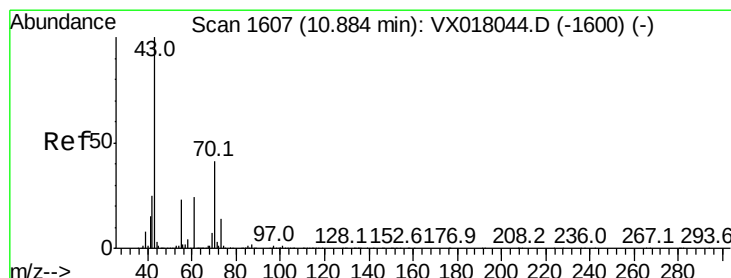
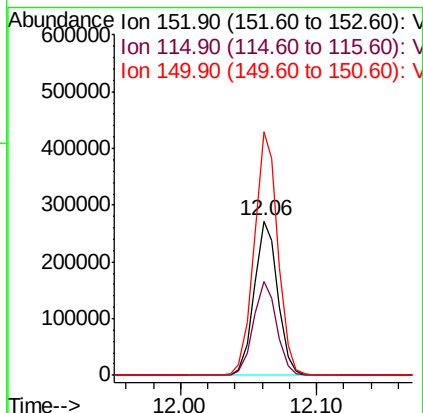
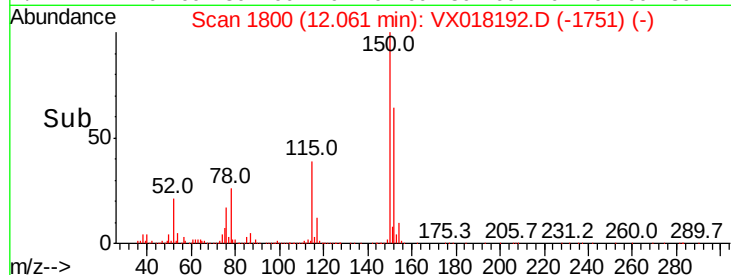
150 158.5 0.0 343.8



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: 1.069 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.08 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Tgt Ion: 43 Resp: 11031

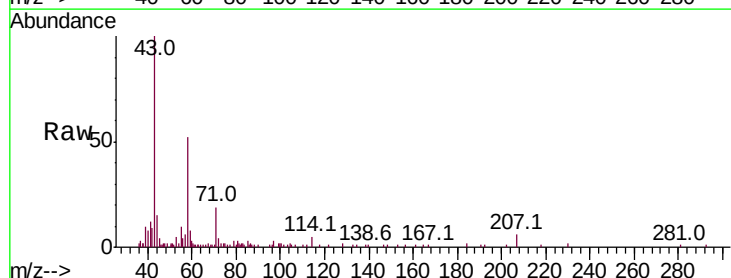
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 11.5 18.2 27.2#

61 0.0 18.9 28.3#

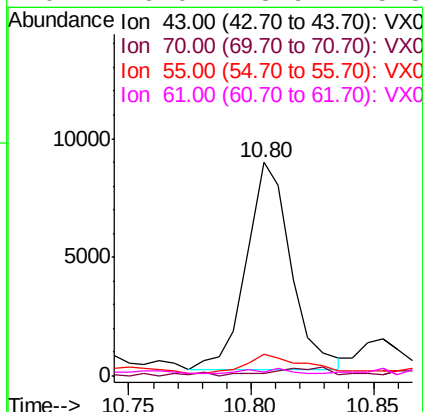
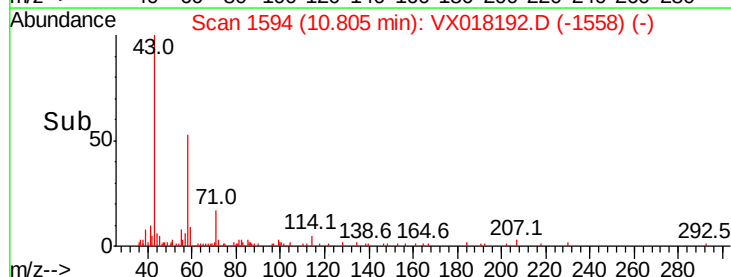


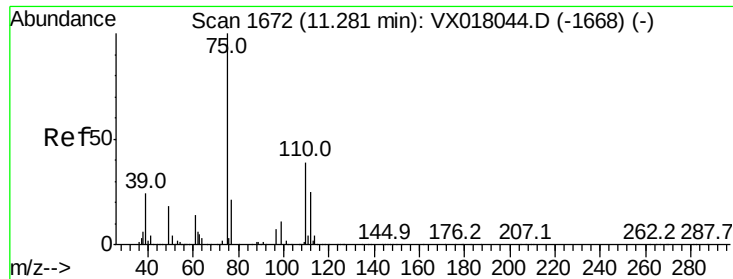
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.070 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

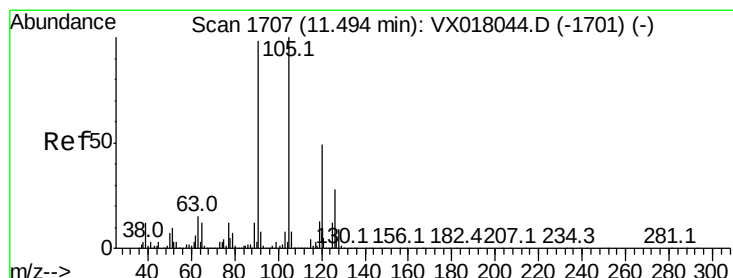
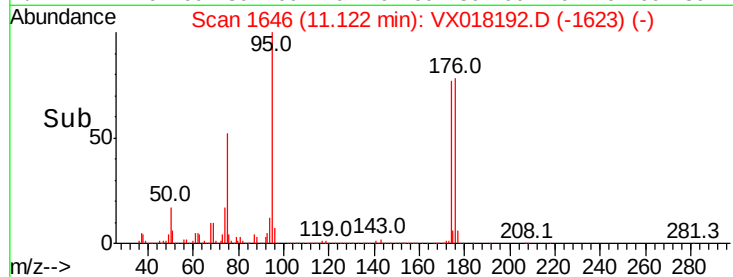
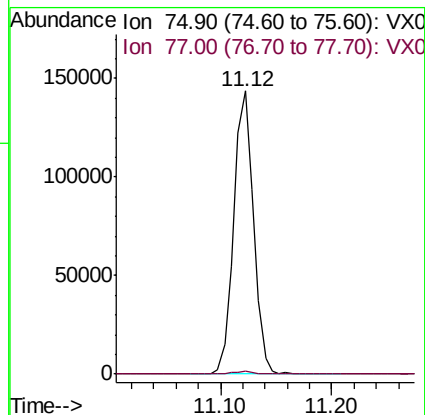
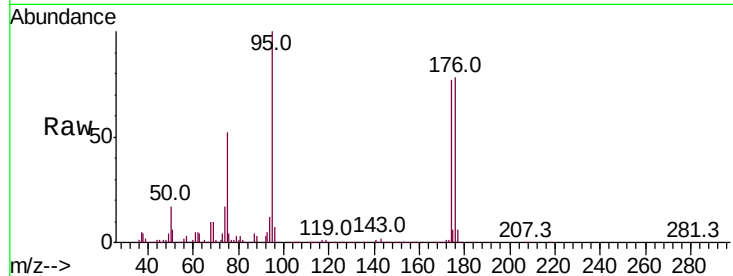
PB131314ZHE#08

Tot Ion: 75 Resp: 176549

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.316 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018192.D

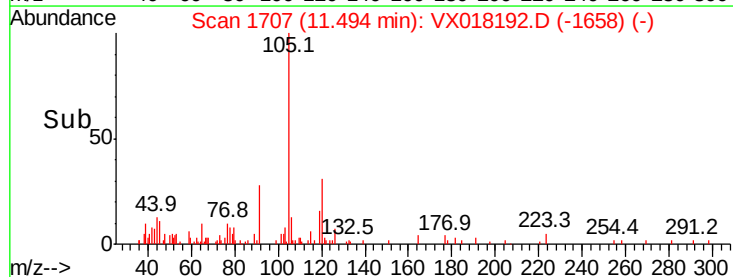
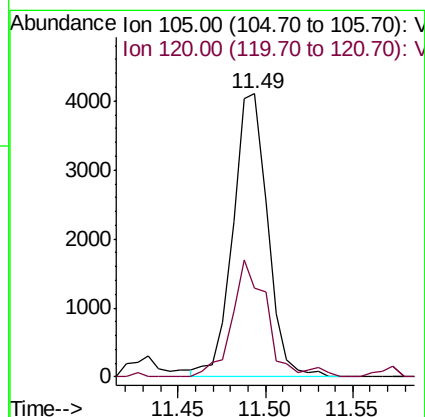
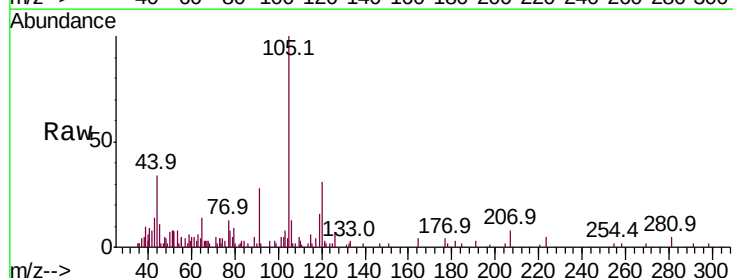
Acq: 01 Sep 2020 15:16

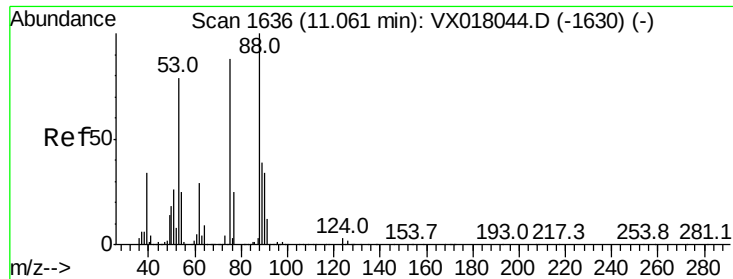
Tgt Ion: 105 Resp: 5652

Ion Ratio Lower Upper

105 100

120 42.0 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 65.009 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#08

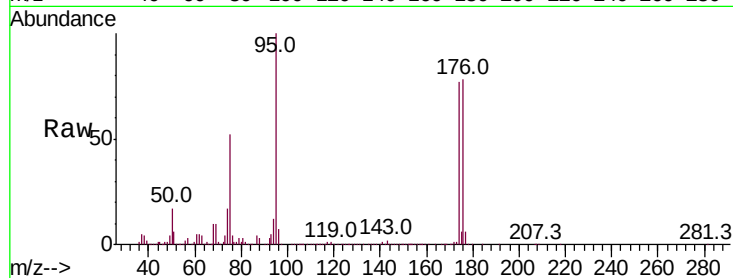
Tot Ion: 75 Resp: 176549

Ion Ratio Lower Upper

75 100

53 0.4 74.7 112.1#

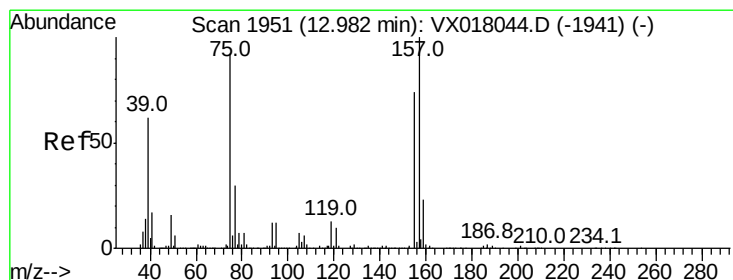
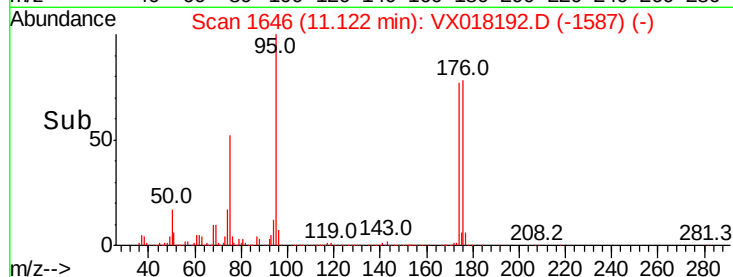
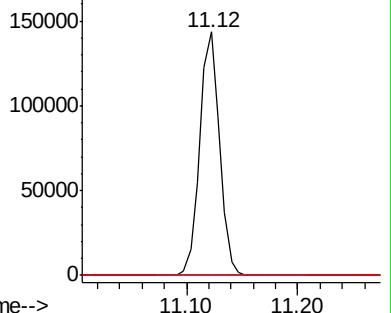
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.248 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX018192.D

Acq: 01 Sep 2020 15:16

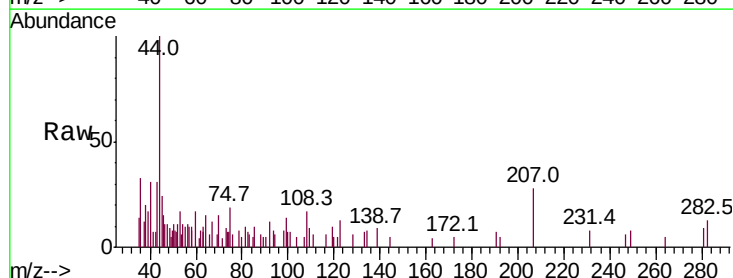
Tgt Ion: 75 Resp: 475

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 4.0 55.0 165.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

