

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090120\
 Data File : VX018193.D
 Acq On : 01 Sep 2020 15:39
 Operator : JC/SP
 Sample : PB131314ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#09

Quant Time: Sep 02 02:51:08 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	420208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	675533	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	679328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	307128	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	302597	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
35) Dibromofluoromethane	5.47	113	241978	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
50) Toluene-d8	8.70	98	870936	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
62) 4-Bromofluorobenzene	11.12	95	318657	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

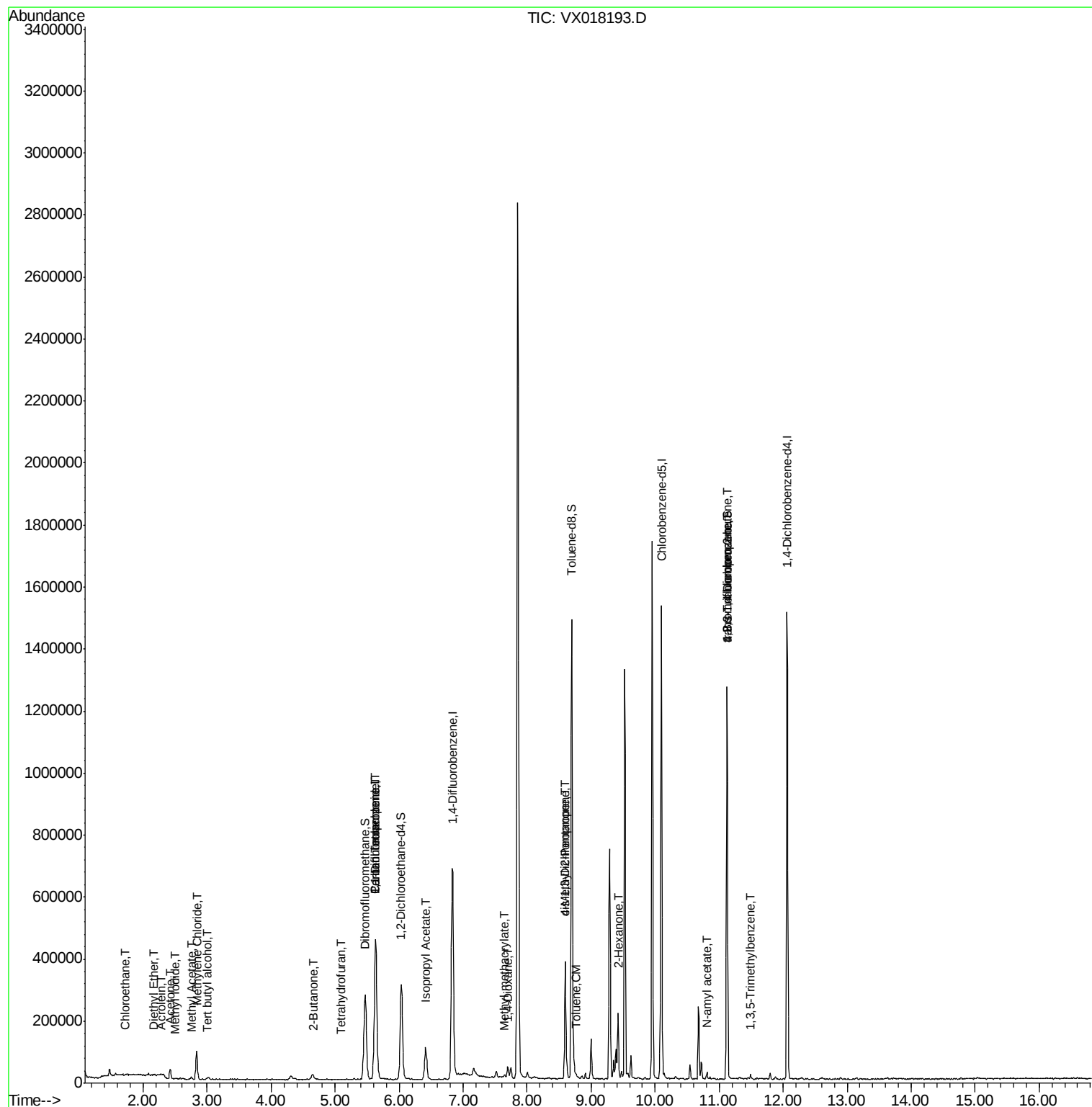
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	712	0.247	ug/l #	70
8) Diethyl Ether	2.17	74	1090	0.439	ug/l	87
10) Methyl Iodide	2.50	142	515	5.395	ug/l #	93
11) Tert butyl alcohol	3.01	59	7338	6.469	ug/l	95
13) Acrolein	2.28	56	432	0.919	ug/l #	82
16) Acetone	2.42	43	34947	15.374	ug/l	91
18) Methyl Acetate	2.75	43	7745	1.412	ug/l	92
20) Methylene Chloride	2.84	84	42933	8.262	ug/l	98
25) 2-Butanone	4.65	43	26574	7.113	ug/l	99
29) Tetrahydrofuran	5.09	42	1341	0.564	ug/l #	34
36) 1,1-Dichloropropene	5.64	75	32007	5.137	ug/l #	52
38) Carbon Tetrachloride	5.63	117	45054	6.416	ug/l #	16
43) Isopropyl Acetate	6.42	43	148988	12.747	ug/l	99
48) Methyl methacrylate	7.65	41	10448	1.796	ug/l #	15
49) 1,4-Dioxane	7.69	88	187	1.774	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	137719	19.074	ug/l #	48
52) Toluene	8.77	92	2386	0.206	ug/l	94
54) cis-1,3-Dichloropropene	8.60	75	57663	7.089	ug/l #	65
59) 2-Hexanone	9.42	43	136874	24.931	ug/l #	25
74) N-amyl acetate	10.81	43	10820	1.126	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	165153	24.173	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	5191	0.312	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.12	75	165153	65.287	ug/l #	12

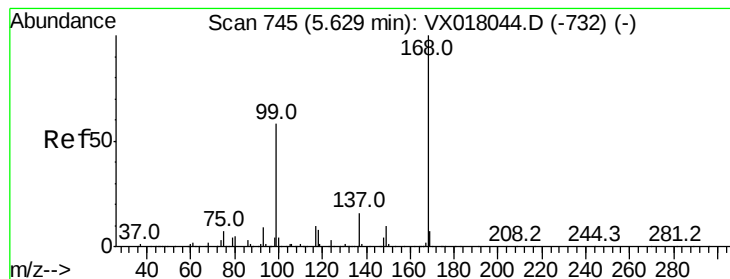
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 02 02:51:08 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: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

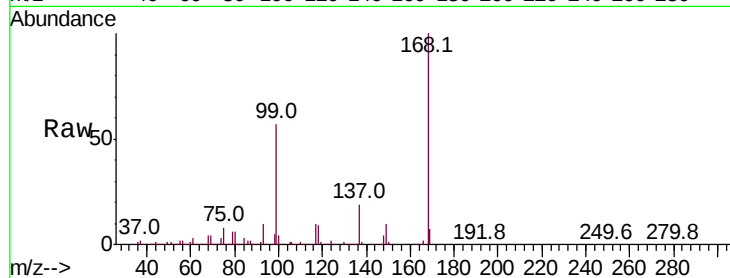
PB131314ZHE#09

Tot Ion:168 Resp: 420208

Ion Ratio Lower Upper

168 100

99 56.6 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

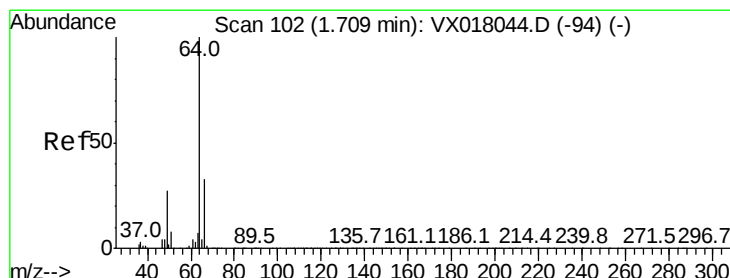
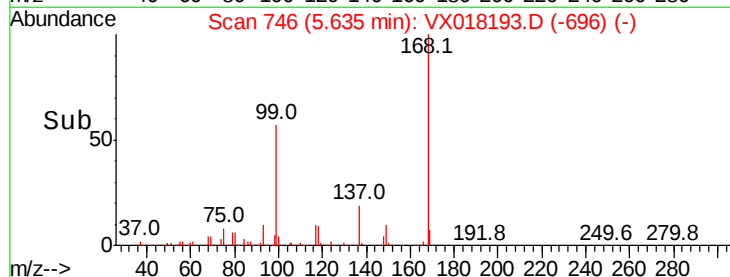
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.247 ug/l

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX018193.D

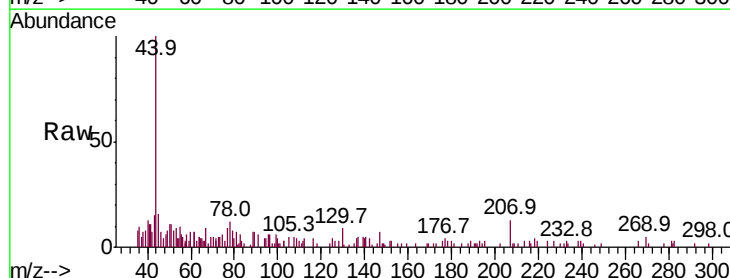
Acq: 01 Sep 2020 15:39

Tgt Ion: 64 Resp: 712

Ion Ratio Lower Upper

64 100

66 16.2 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

600

500

400

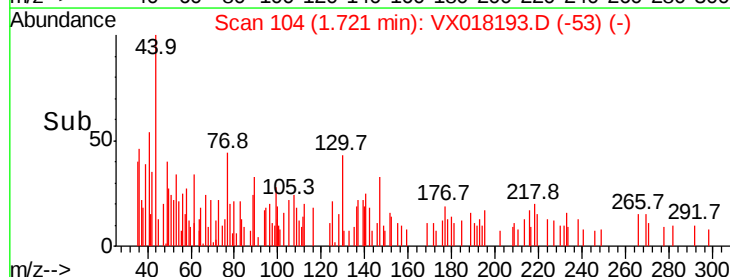
300

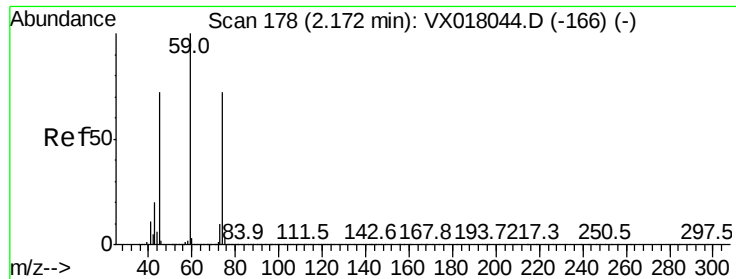
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.439 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

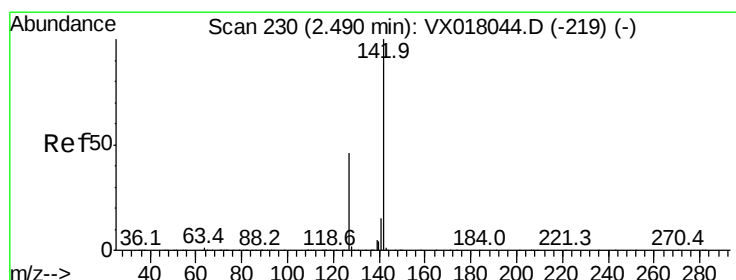
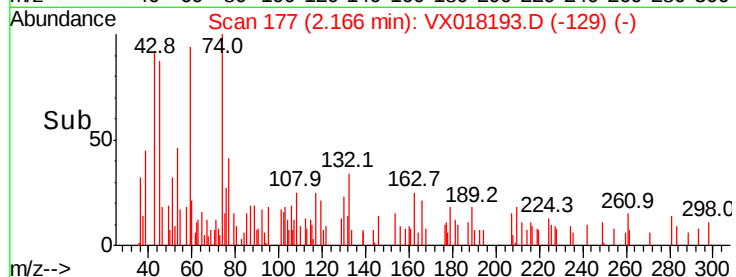
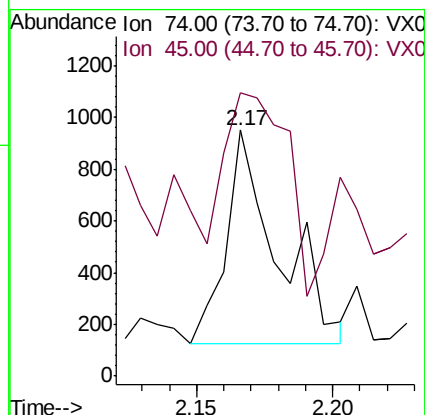
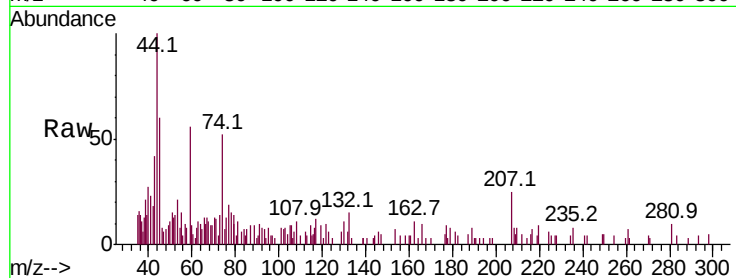
PB131314ZHE#09

Tot Ion: 74 Resp: 1090

Ion Ratio Lower Upper

74 100

45 114.4 50.7 152.3



#10

Methyl Iodide

Concen: 5.395 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

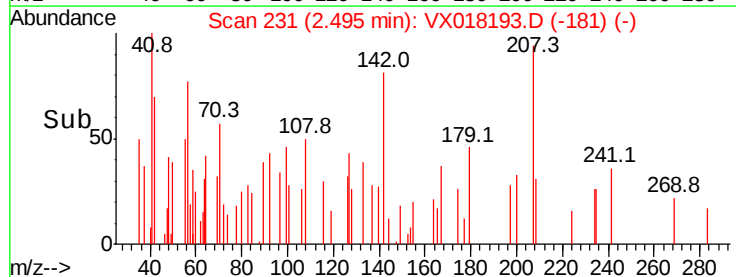
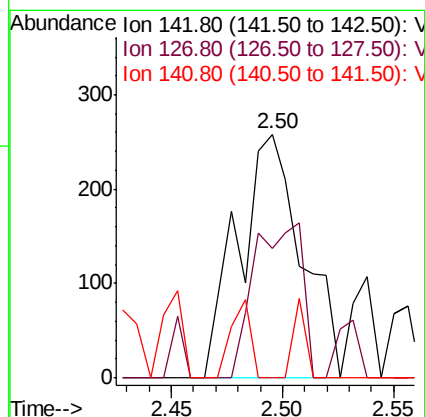
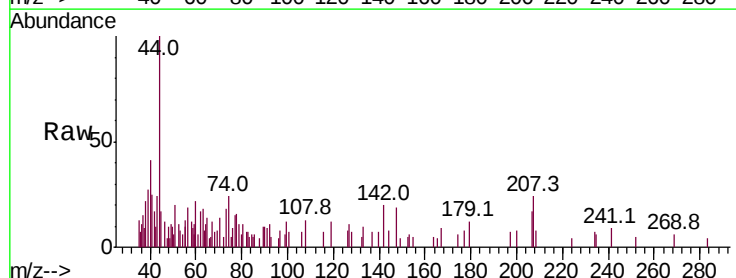
Tgt Ion: 142 Resp: 515

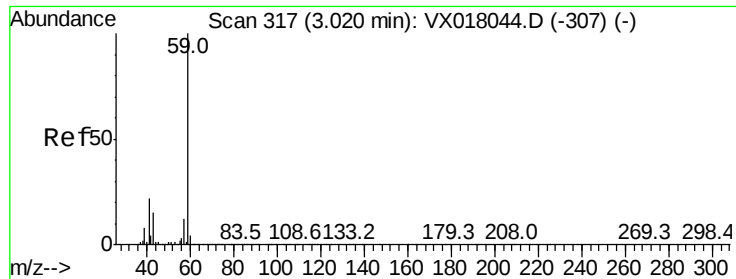
Ion Ratio Lower Upper

142 100

127 48.2 37.0 55.6

141 6.0 11.5 17.3#

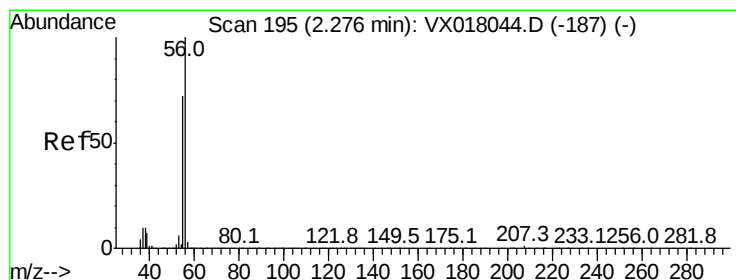
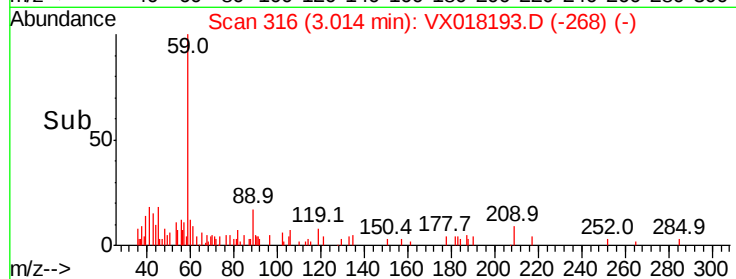
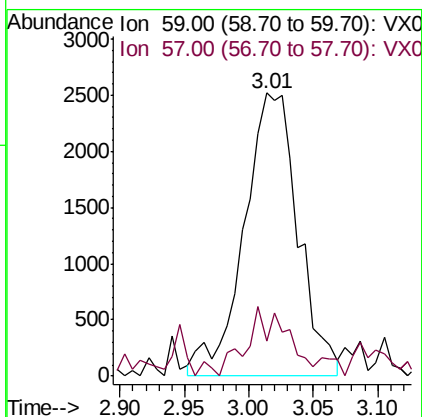
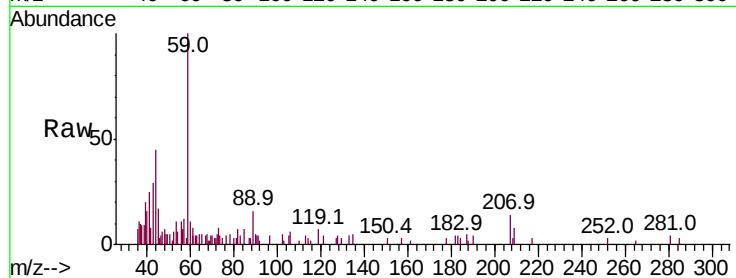




#11
Tert butyl alcohol
Concen: 6.469 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX018193.D
Acq: 01 Sep 2020 15:39

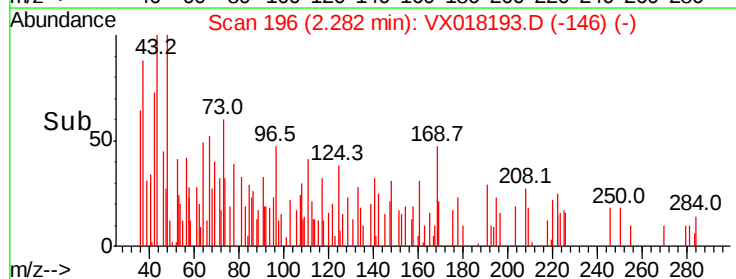
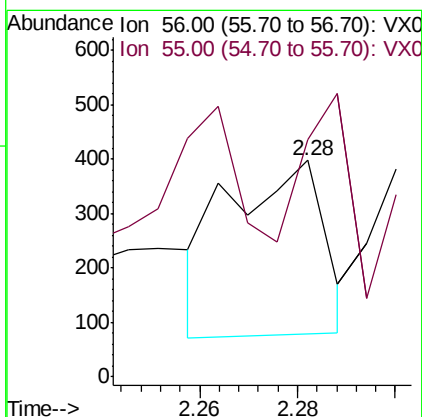
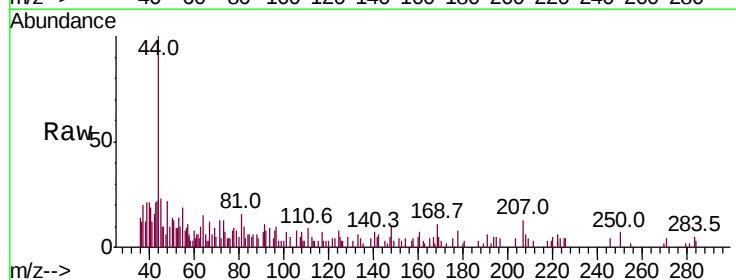
Instrument :
MSVOA_X
ClientSampleId :
PB131314ZHE#09

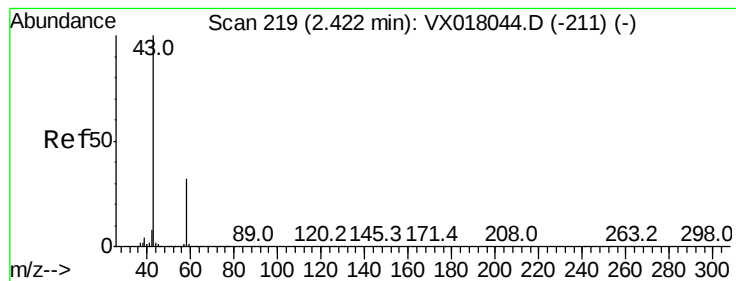
Tot Ion: 59 Resp: 7338
Ion Ratio Lower Upper
59 100
57 9.1 8.9 13.3



#13
Acrolein
Concen: 0.919 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX018193.D
Acq: 01 Sep 2020 15:39

Tgt Ion: 56 Resp: 432
Ion Ratio Lower Upper
56 100
55 56.5 57.0 85.6#





#16

Acetone

Concen: 15.374 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

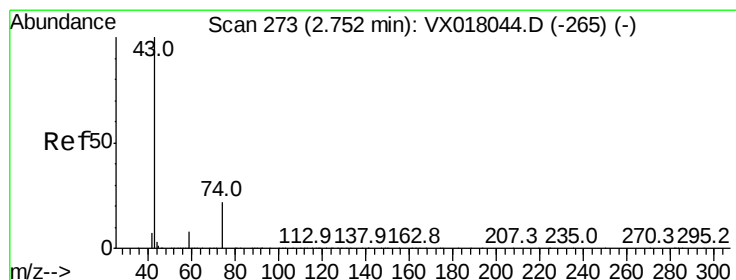
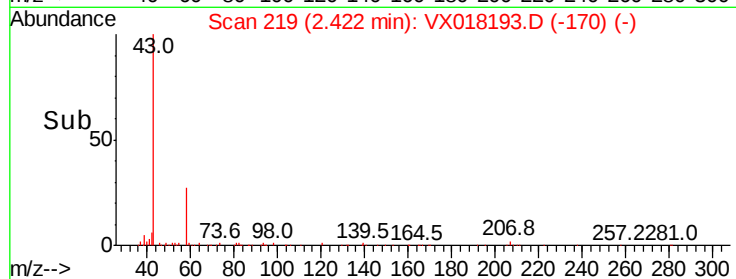
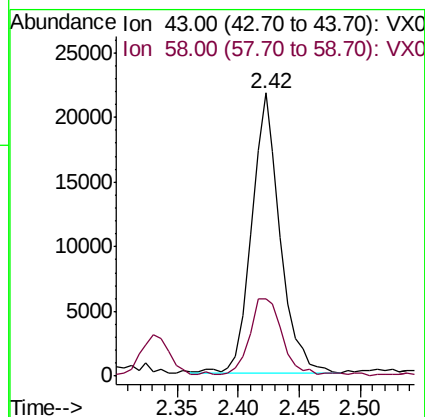
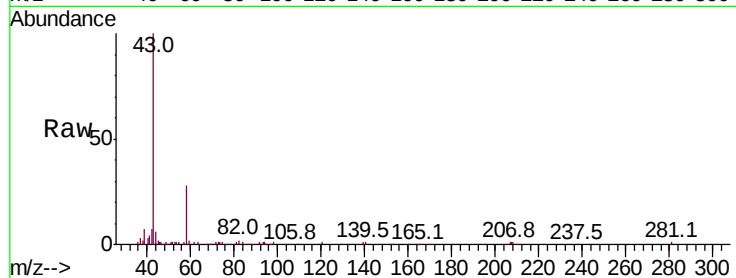
PB131314ZHE#09

Tot Ion: 43 Resp: 34947

Ion Ratio Lower Upper

43 100

58 27.0 25.5 38.3



#18

Methyl Acetate

Concen: 1.412 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018193.D

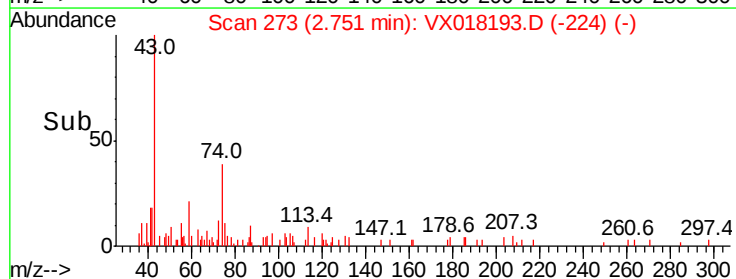
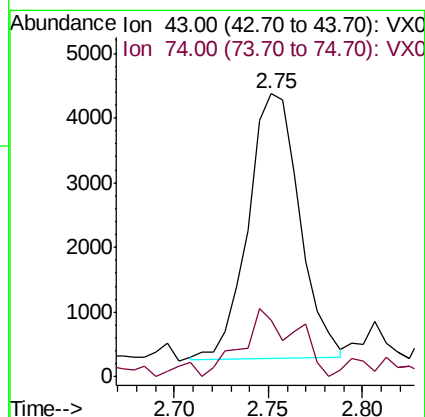
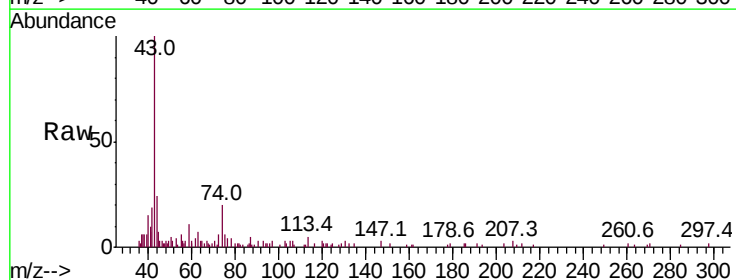
Acq: 01 Sep 2020 15:39

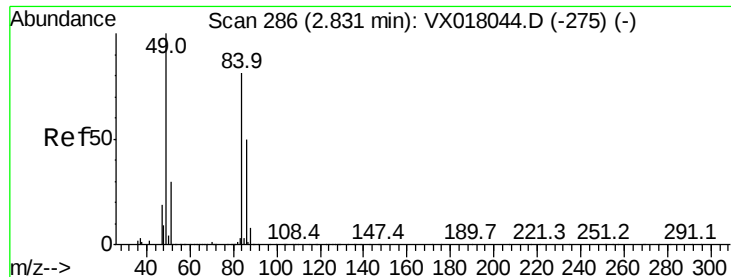
Tgt Ion: 43 Resp: 7745

Ion Ratio Lower Upper

43 100

74 26.8 18.2 27.4

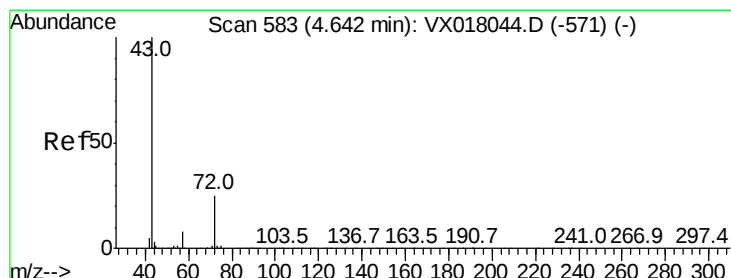
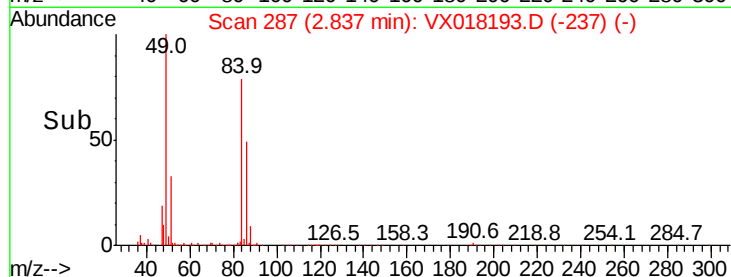
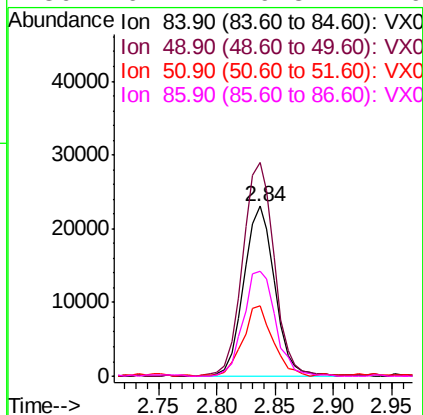
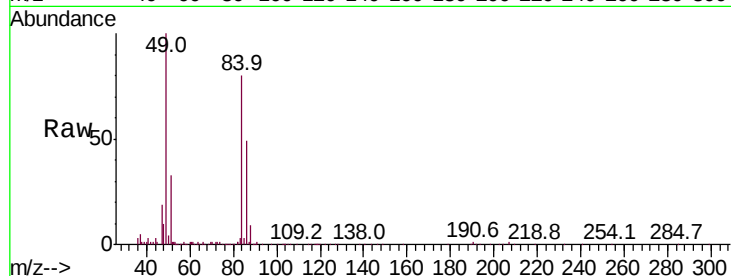




#20
Methvlene Chloride
Concen: 8.262 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018193.D
Acq: 01 Sep 2020 15:39

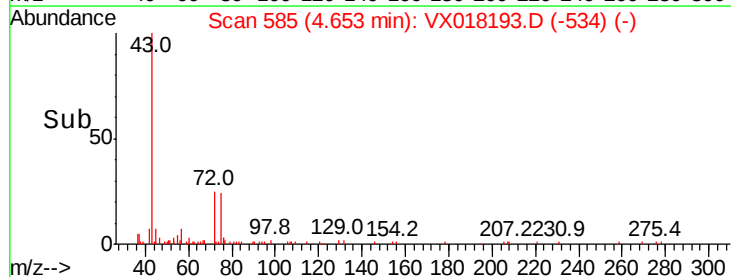
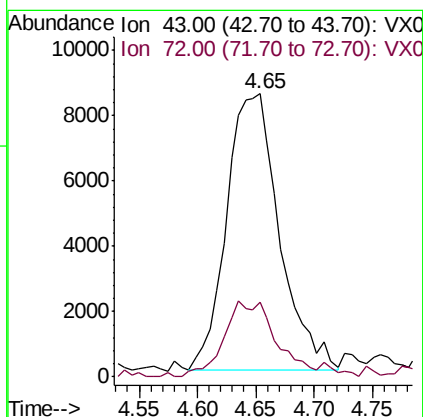
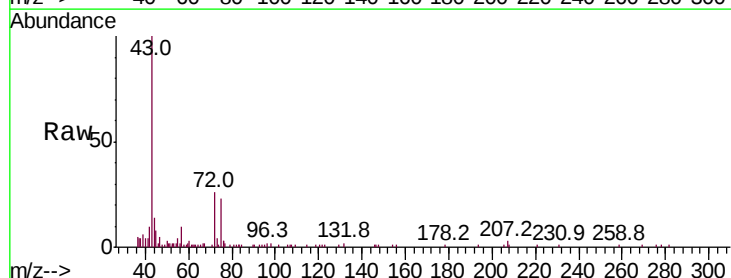
Instrument :
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ClientSampleId :
PB131314ZHE#09

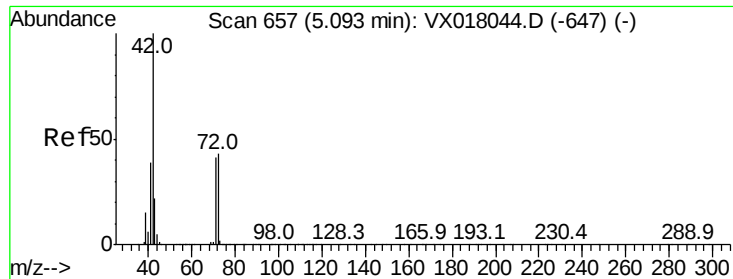
Tot Ion:	84	Resp:	42933
Ion	Ratio	Lower	Upper
84	100		
49	125.7	98.6	148.0
51	41.1	29.6	44.4
86	62.1	49.8	74.6



#25
2-Butanone
Concen: 7.113 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX018193.D
Acq: 01 Sep 2020 15:39

Tgt Ion:	43	Resp:	26574
Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.8	29.6





#29

Tetrahydrofuran

Concen: 0.564 ug/l

RT: 5.09 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

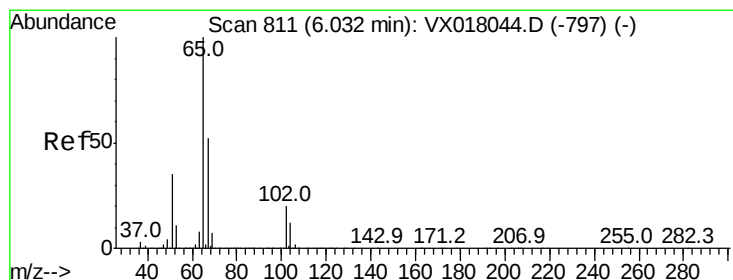
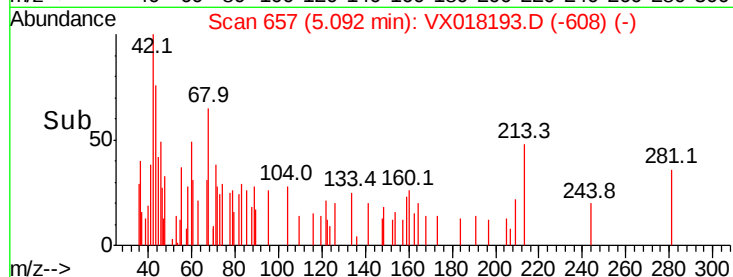
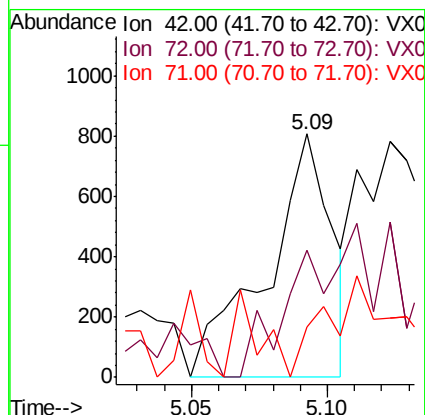
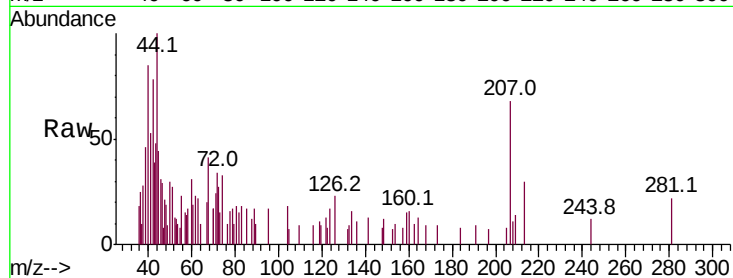
Tot Ion: 42 Resp: 1341

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 0.0 32.1 48.1#



#33

1,2-Dichloroethane-d4

Concen: 51.872 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018193.D

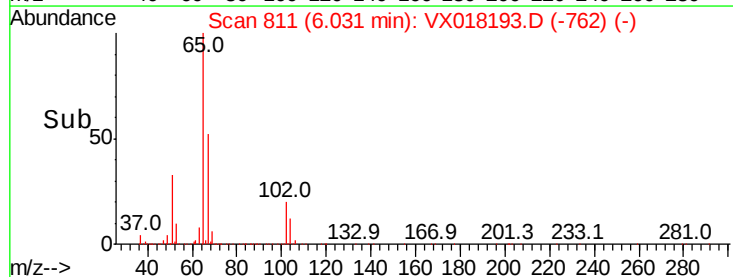
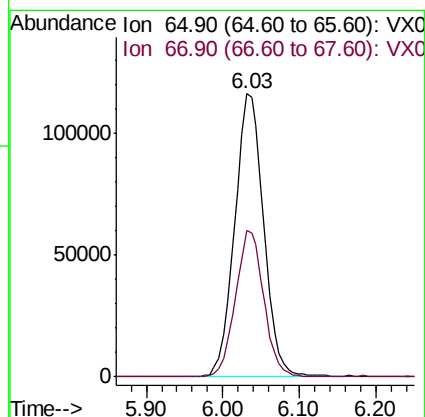
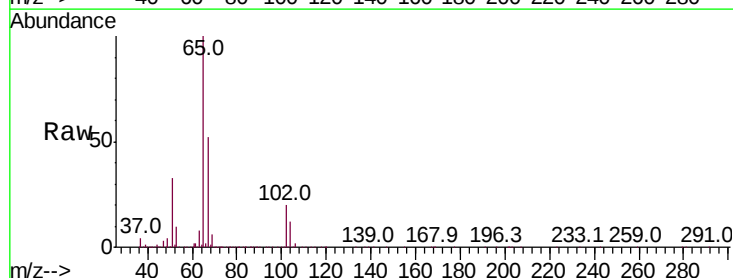
Acq: 01 Sep 2020 15:39

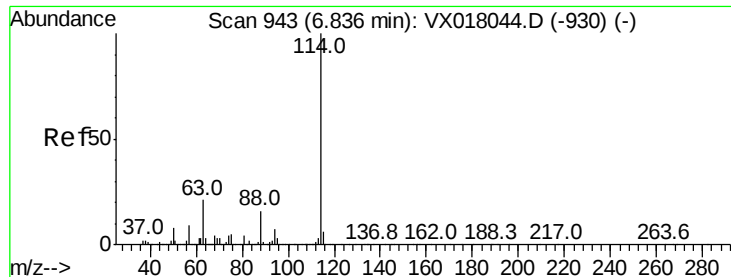
Tgt Ion: 65 Resp: 302597

Ion Ratio Lower Upper

65 100

67 50.7 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: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

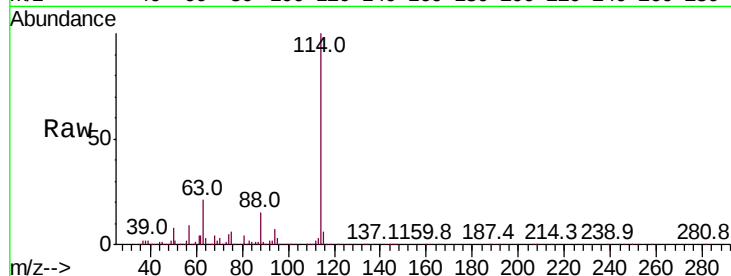
Tot Ion:114 Resp: 675533

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

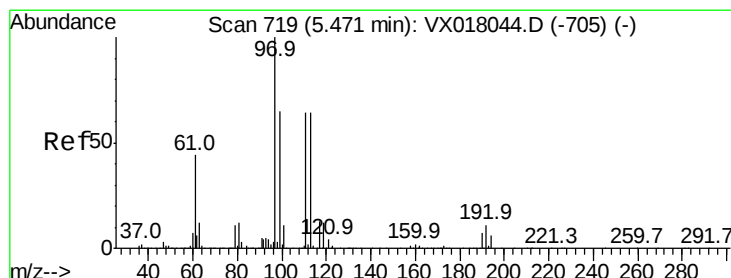
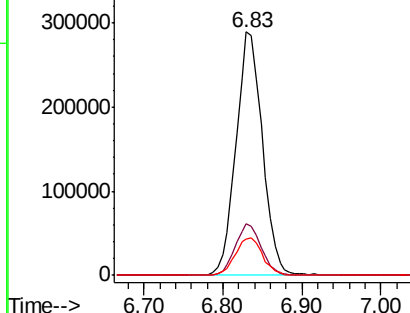
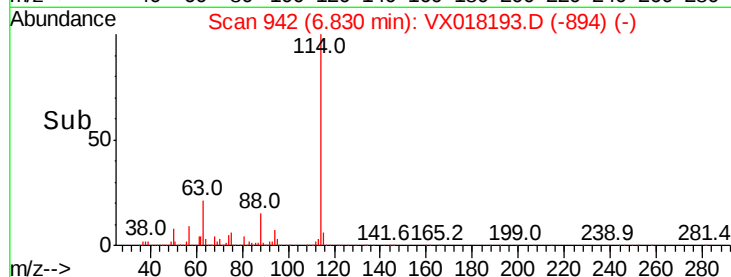
88 14.9 0.0 31.8



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: 52.596 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

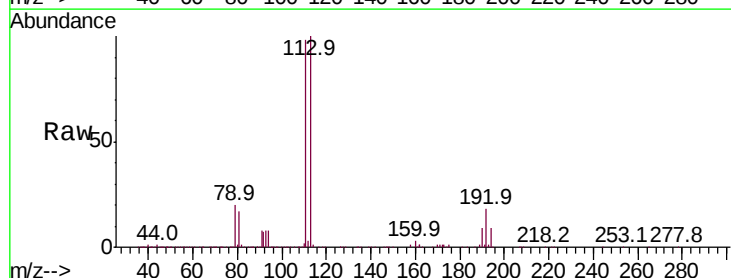
Tgt Ion:113 Resp: 241978

Ion Ratio Lower Upper

113 100

111 101.2 81.6 122.4

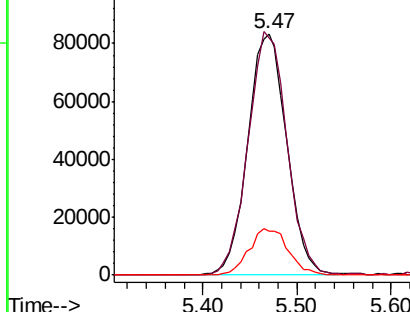
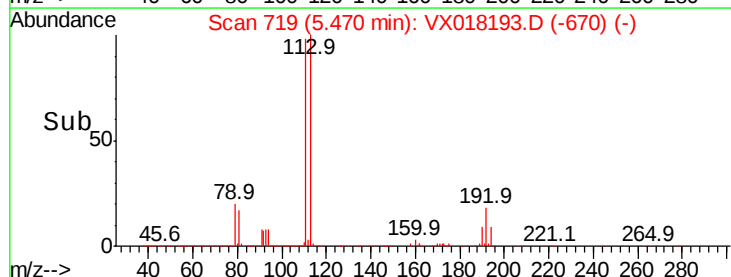
192 19.4 15.8 23.8

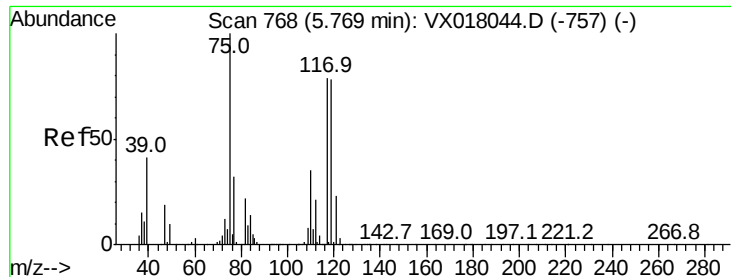


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.137 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

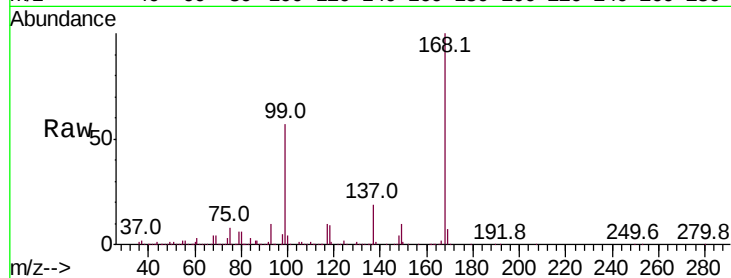
Tot Ion: 75 Resp: 32007

Ion Ratio Lower Upper

75 100

110 11.7 18.0 54.0#

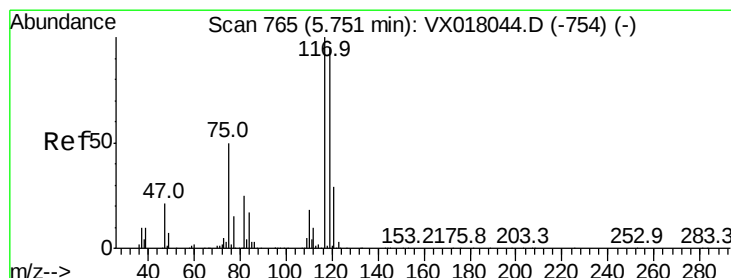
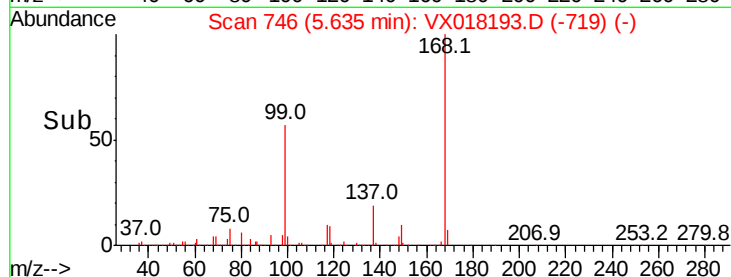
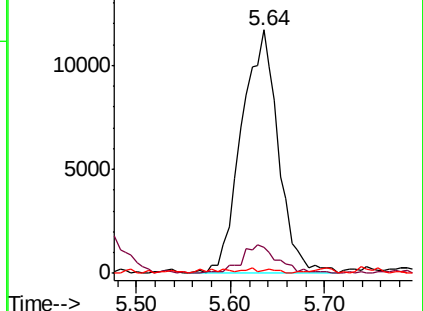
77 0.3 24.4 36.6#



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: 6.416 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

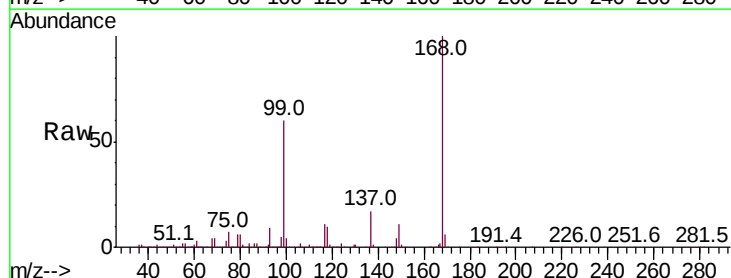
Tgt Ion: 117 Resp: 45054

Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.6#

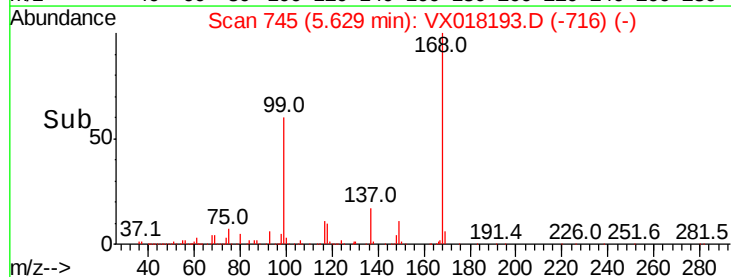
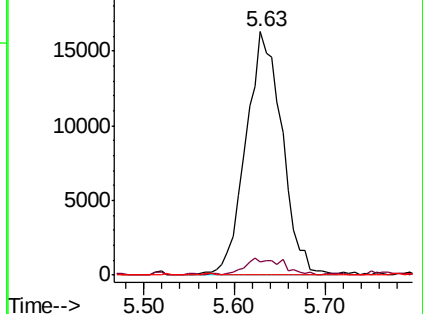
121 0.5 23.4 35.0#

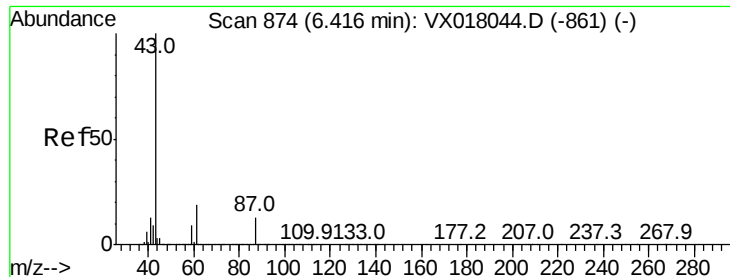


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 12.747 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

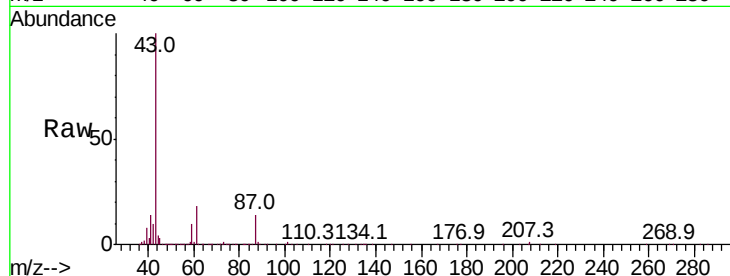
Tot Ion: 43 Resp: 148988

Ion Ratio Lower Upper

43 100

61 18.5 15.7 23.5

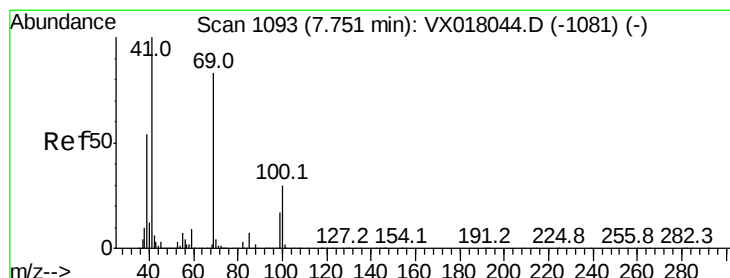
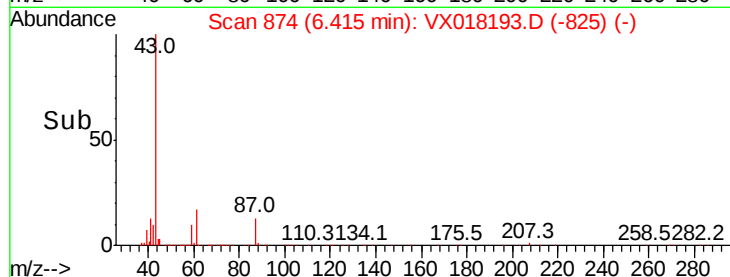
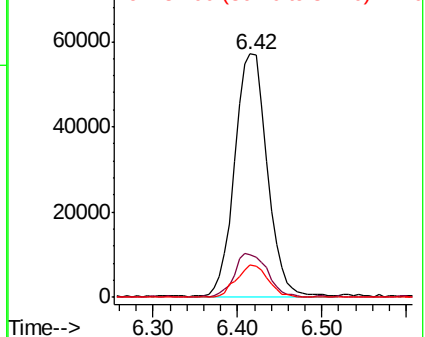
87 12.9 10.3 15.5



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: 1.796 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.10 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

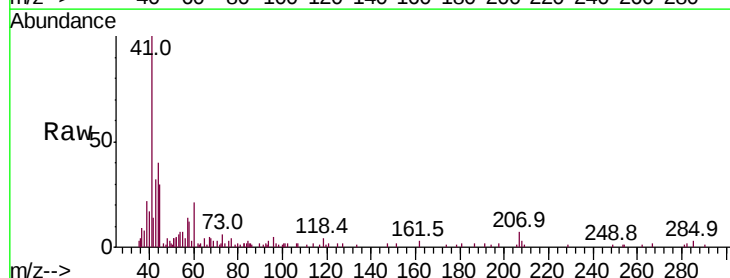
Tgt Ion: 41 Resp: 10448

Ion Ratio Lower Upper

41 100

69 0.6 65.5 98.3#

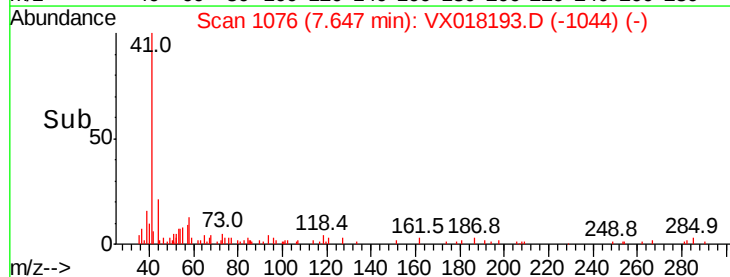
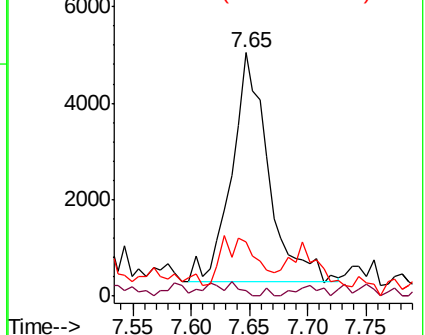
39 0.0 44.5 66.7#

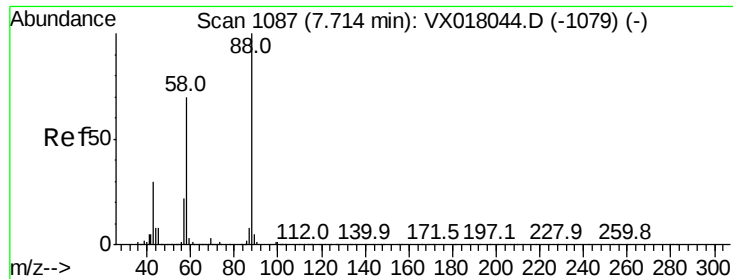


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.774 ug/l

RT: 7.69 min Scan# 1083

Delta R.T. -0.02 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

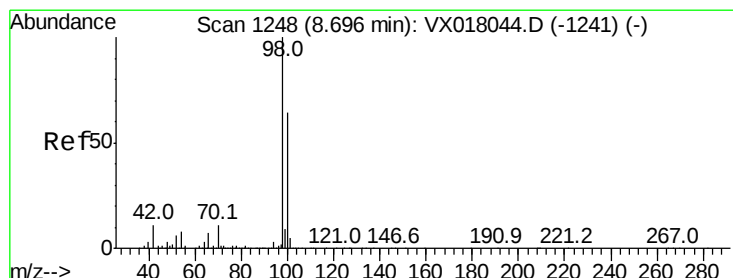
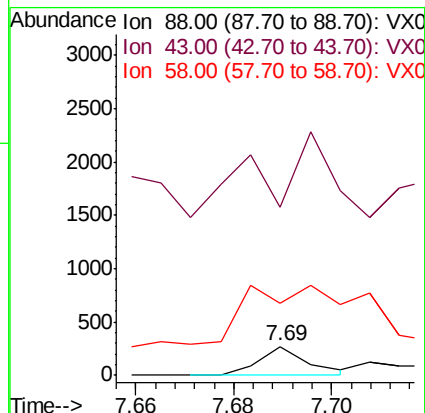
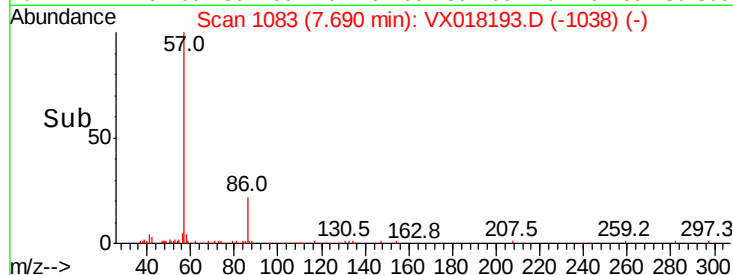
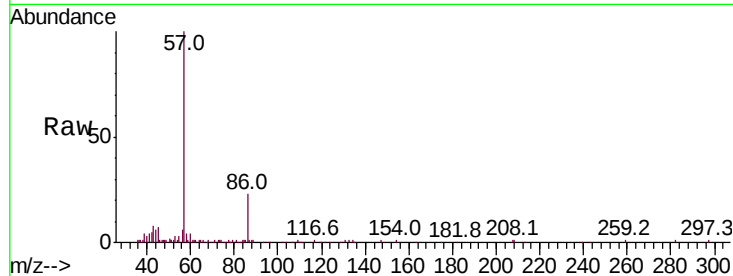
Tot Ion: 88 Resp: 187

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 844.9 56.4 84.6#



#50

Toluene-d8

Concen: 50.826 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018193.D

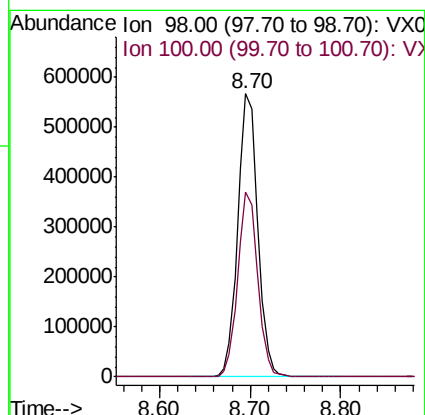
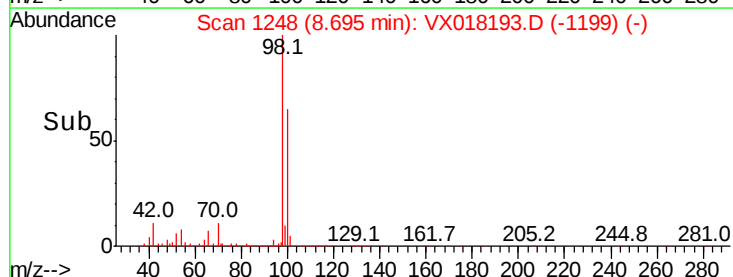
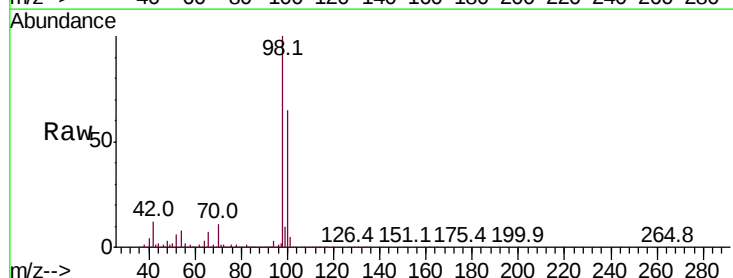
Acq: 01 Sep 2020 15:39

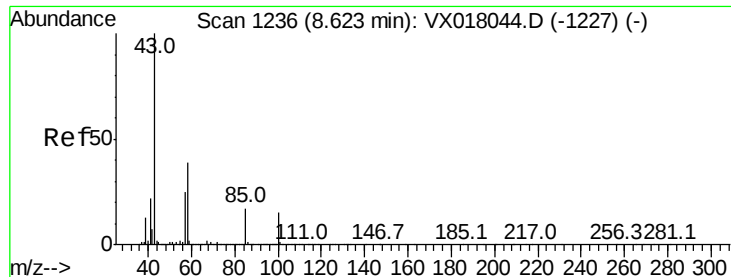
Tgt Ion: 98 Resp: 870936

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.4

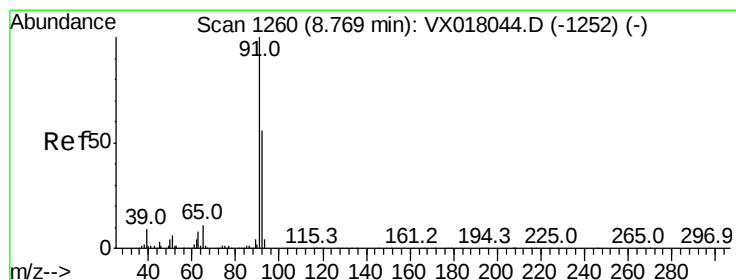
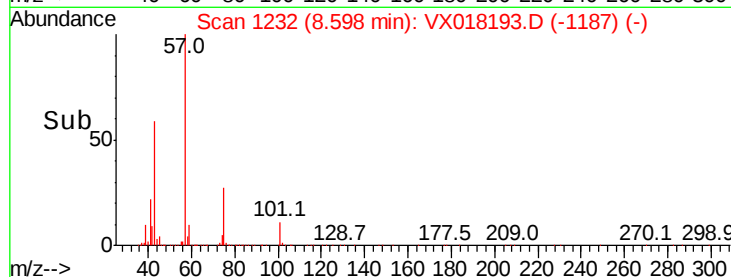
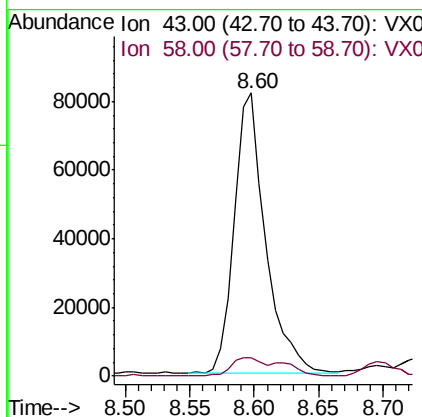
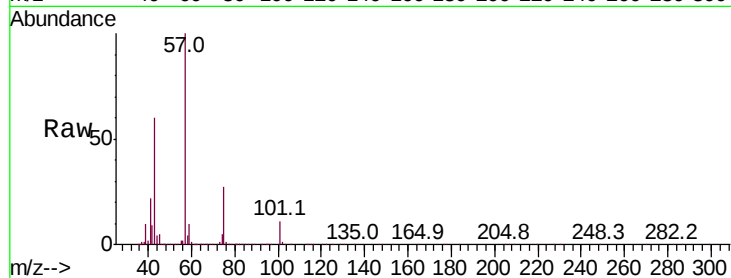




#51
 4-Methyl-2-Pentanone
 Concen: 19.074 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VX018193.D
 Acq: 01 Sep 2020 15:39

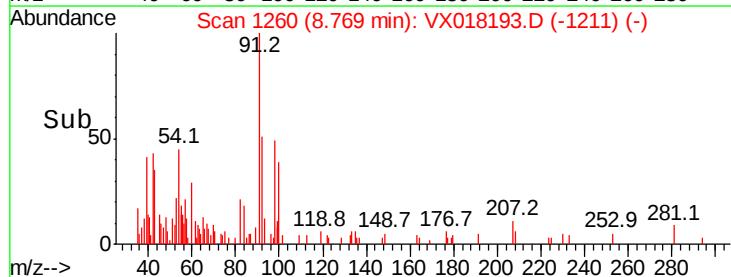
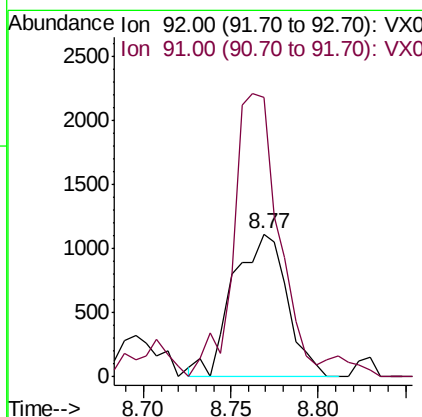
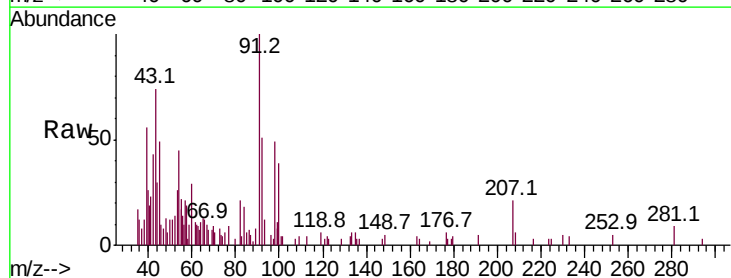
Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#09

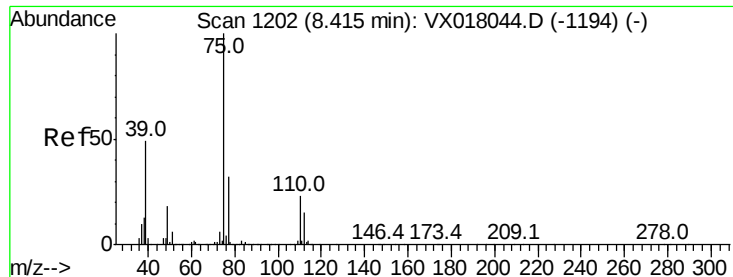
Tot Ion: 43 Resp: 137719
 Ion Ratio Lower Upper
 43 100
 58 6.8 30.7 46.1#



#52
 Toluene
 Concen: 0.206 ug/l
 RT: 8.77 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VX018193.D
 Acq: 01 Sep 2020 15:39

Tgt Ion: 92 Resp: 2386
 Ion Ratio Lower Upper
 92 100
 91 166.4 140.3 210.5

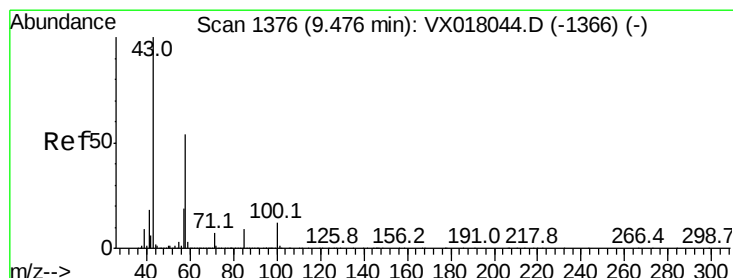
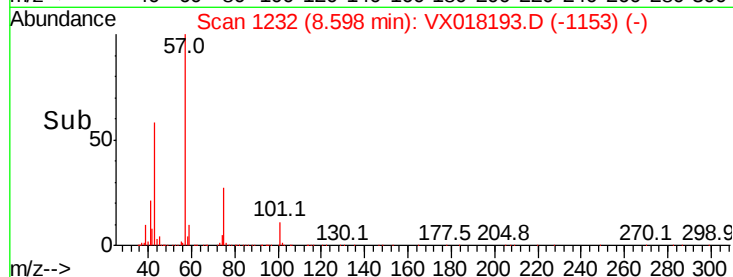
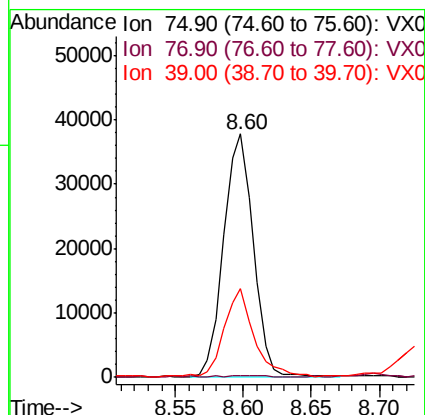
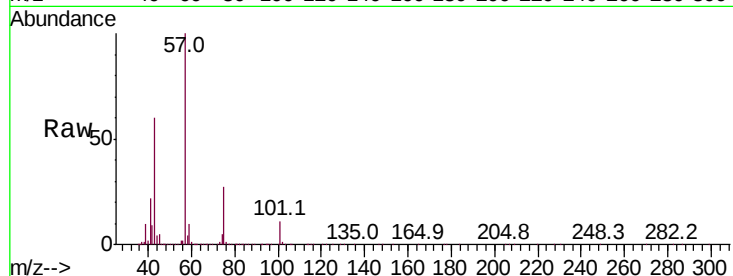




#54
 cis-1,3-Dichloropropene
 Concen: 7.089 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX018193.D
 Acq: 01 Sep 2020 15:39

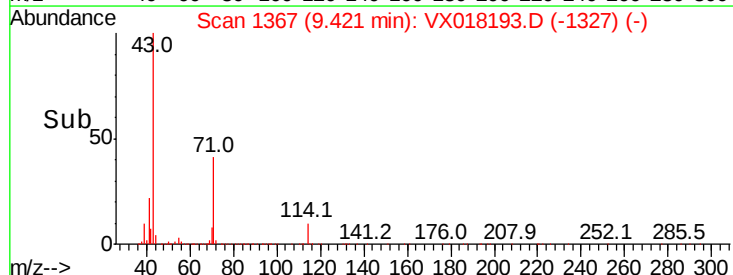
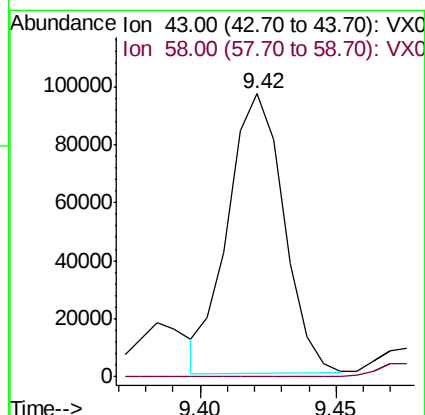
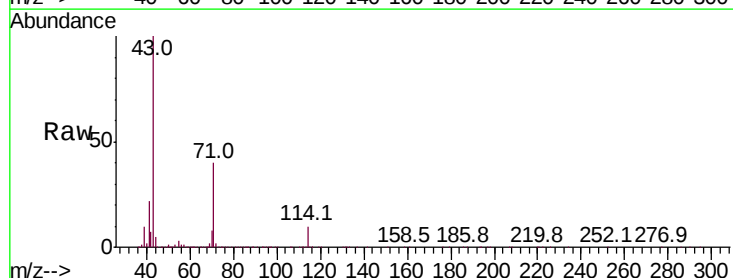
Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#09

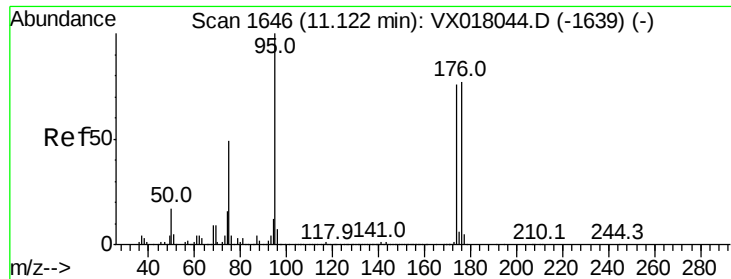
Tot Ion: 75 Resp: 57663
 Ion Ratio Lower Upper
 75 100
 77 0.3 25.8 38.8#
 39 35.3 38.8 58.2#



#59
 2-Hexanone
 Concen: 24.931 ug/l
 RT: 9.42 min Scan# 1367
 Delta R.T. -0.06 min
 Lab File: VX018193.D
 Acq: 01 Sep 2020 15:39

Tgt Ion: 43 Resp: 136874
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.6 79.7#

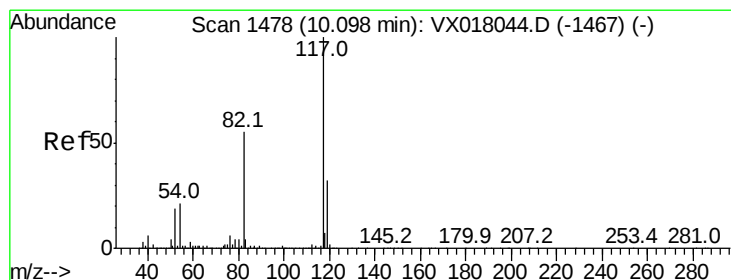
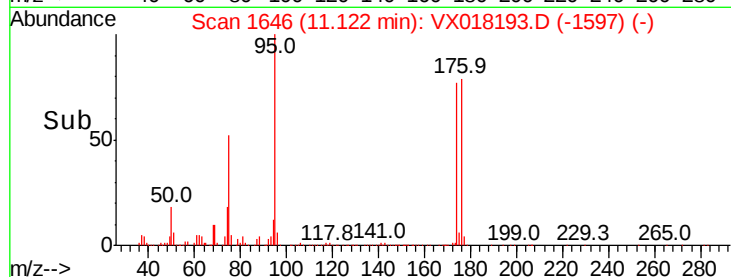
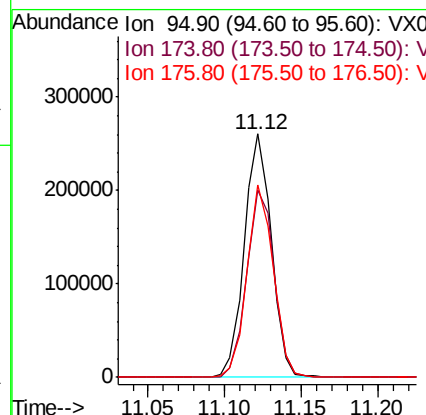
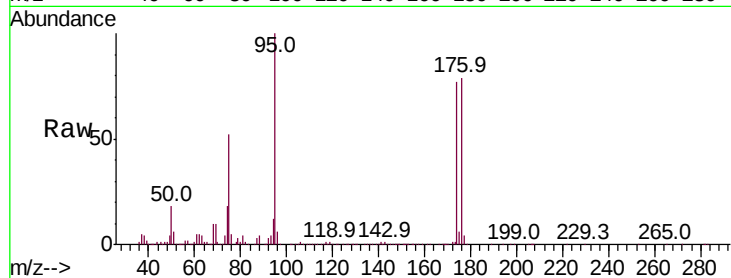




#62
 4-Bromofluorobenzene
 Concen: 47.266 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VX018193.D
 Acq: 01 Sep 2020 15:39

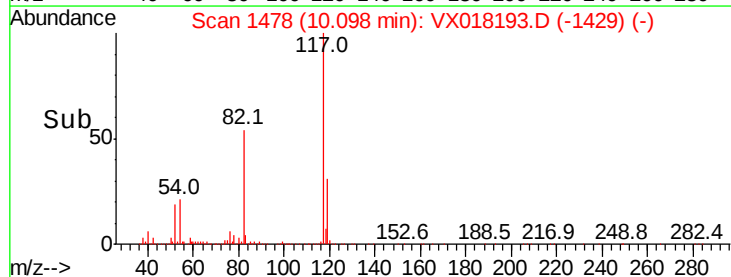
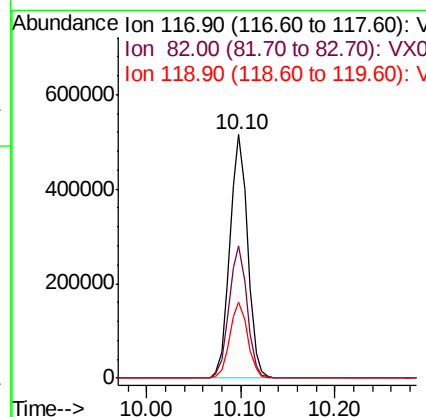
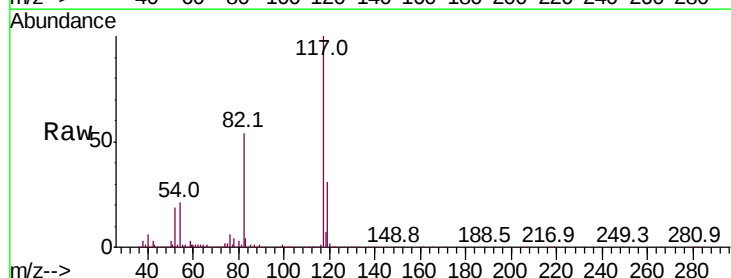
Instrument :
 MSVOA_X
 ClientSampleId :
 PB131314ZHE#09

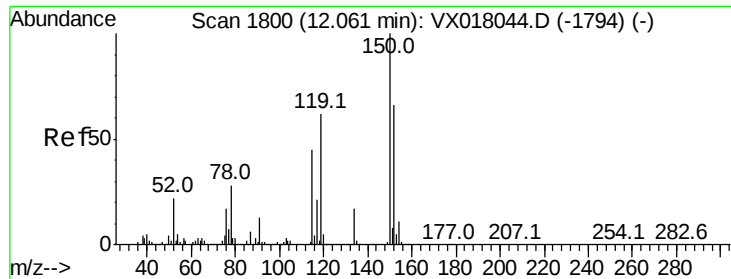
Tot Ion:	95	Resp:	318657
Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	160.2
176	77.3	0.0	155.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.10 min Scan# 1478
 Delta R.T. -0.00 min
 Lab File: VX018193.D
 Acq: 01 Sep 2020 15:39

Tgt Ion:	117	Resp:	679328
Ion	Ratio	Lower	Upper
117	100		
82	54.1	44.2	66.2
119	31.3	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: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

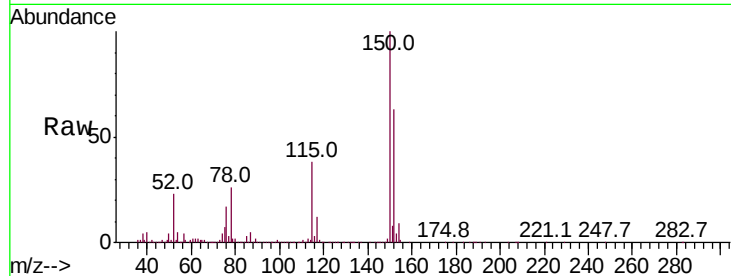
Tot Ion:152 Resp: 307128

Ion Ratio Lower Upper

152 100

115 58.8 41.5 124.5

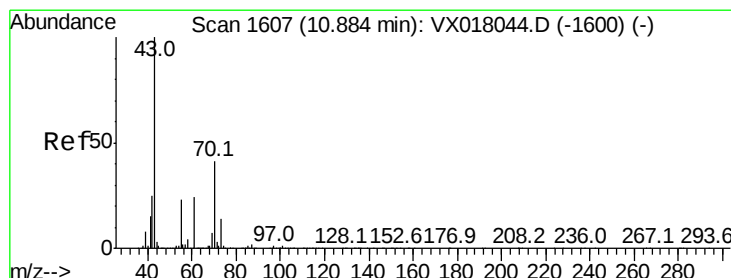
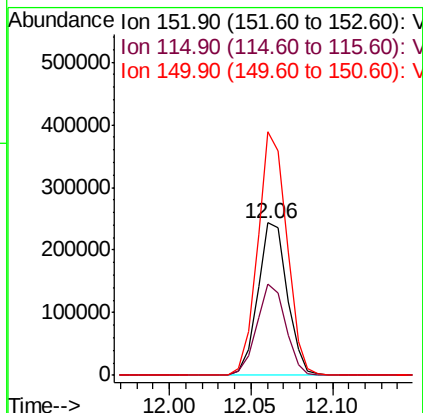
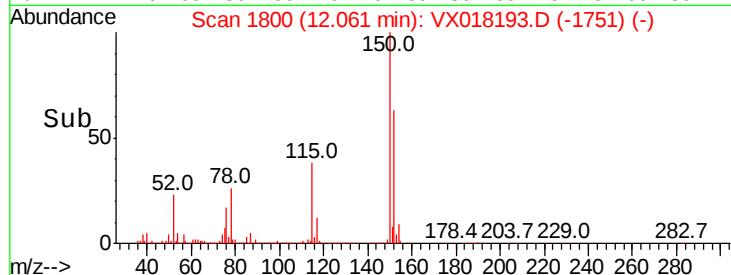
150 156.9 0.0 343.8



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: 1.126 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Tgt Ion: 43 Resp: 10820

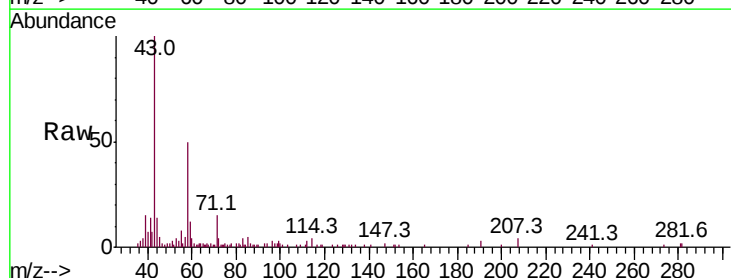
Ion Ratio Lower Upper

43 100

70 1.7 32.3 48.5#

55 11.9 18.2 27.2#

61 0.0 18.9 28.3#

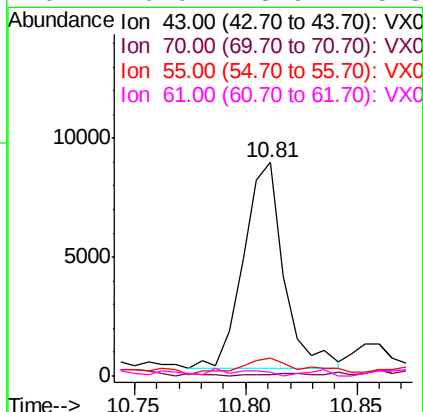
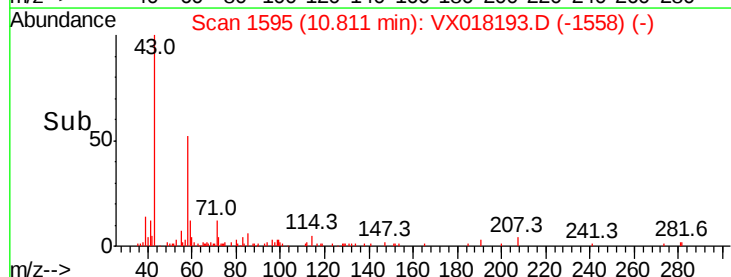


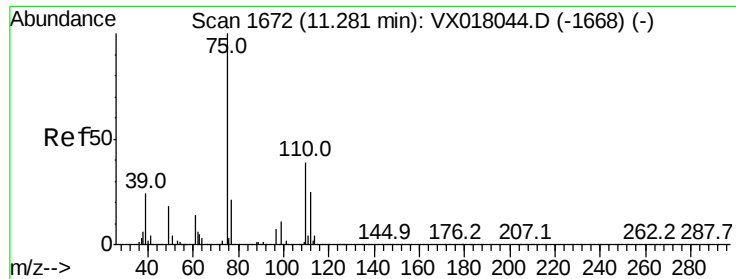
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.173 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

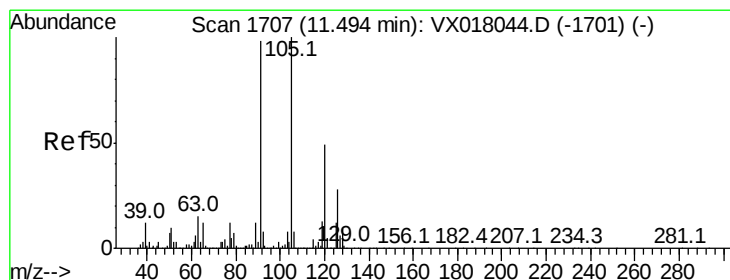
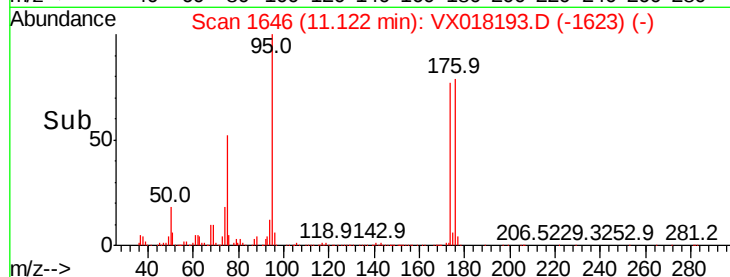
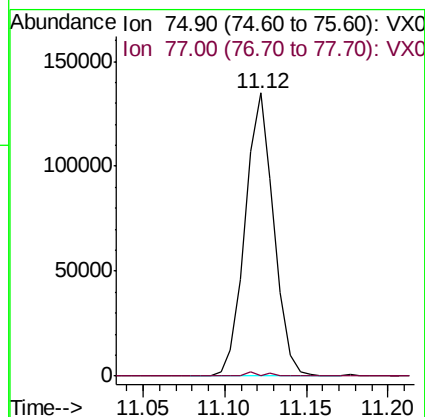
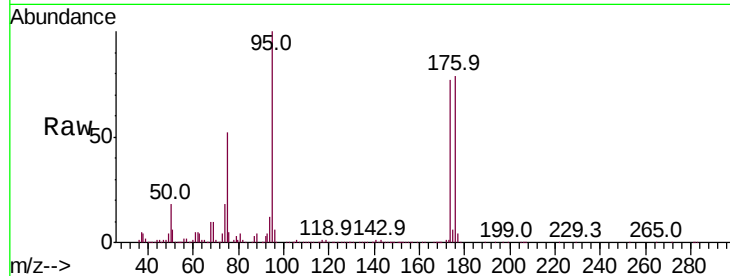
PB131314ZHE#09

Tot Ion: 75 Resp: 165153

Ion Ratio Lower Upper

75 100

77 1.0 20.8 62.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.312 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018193.D

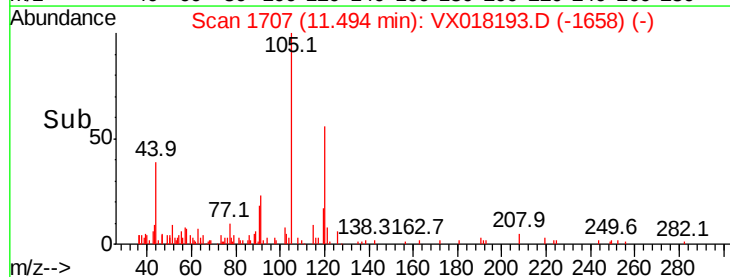
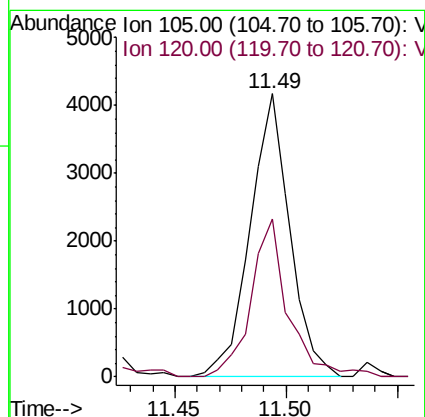
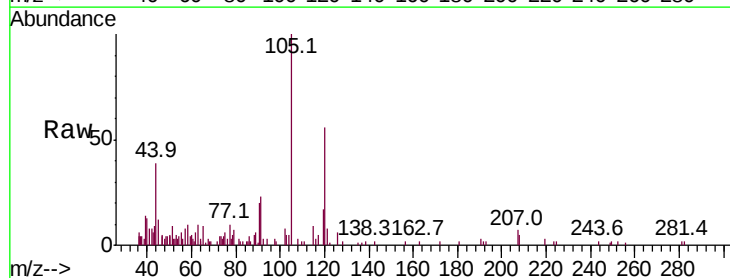
Acq: 01 Sep 2020 15:39

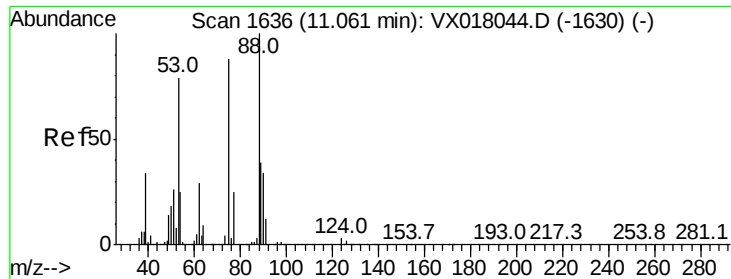
Tgt Ion: 105 Resp: 5191

Ion Ratio Lower Upper

105 100

120 52.3 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 65.287 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018193.D

Acq: 01 Sep 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

PB131314ZHE#09

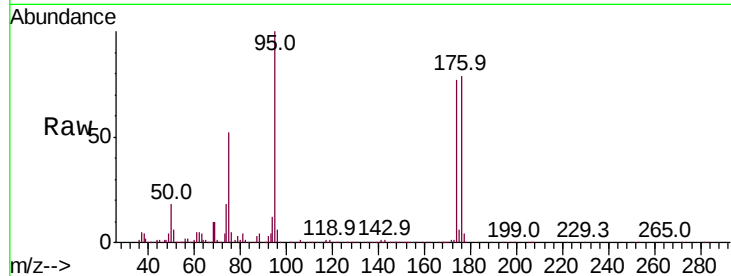
Tot Ion: 75 Resp: 165153

Ion Ratio Lower Upper

75 100

53 0.6 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

