

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091520\
 Data File : VX018417.D
 Acq On : 15 Sep 2020 19:10
 Operator : JC/SP
 Sample : PB131607ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131607ZHE#08

Quant Time: Sep 16 03:39:01 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	432541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	716018	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	702398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	345044	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	322247	53.67	ug/l	0.00
Spiked Amount			Recovery	=	107.34%	
35) Dibromofluoromethane	5.46	113	253559	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
50) Toluene-d8	8.70	98	907093	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	11.12	95	335183	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	

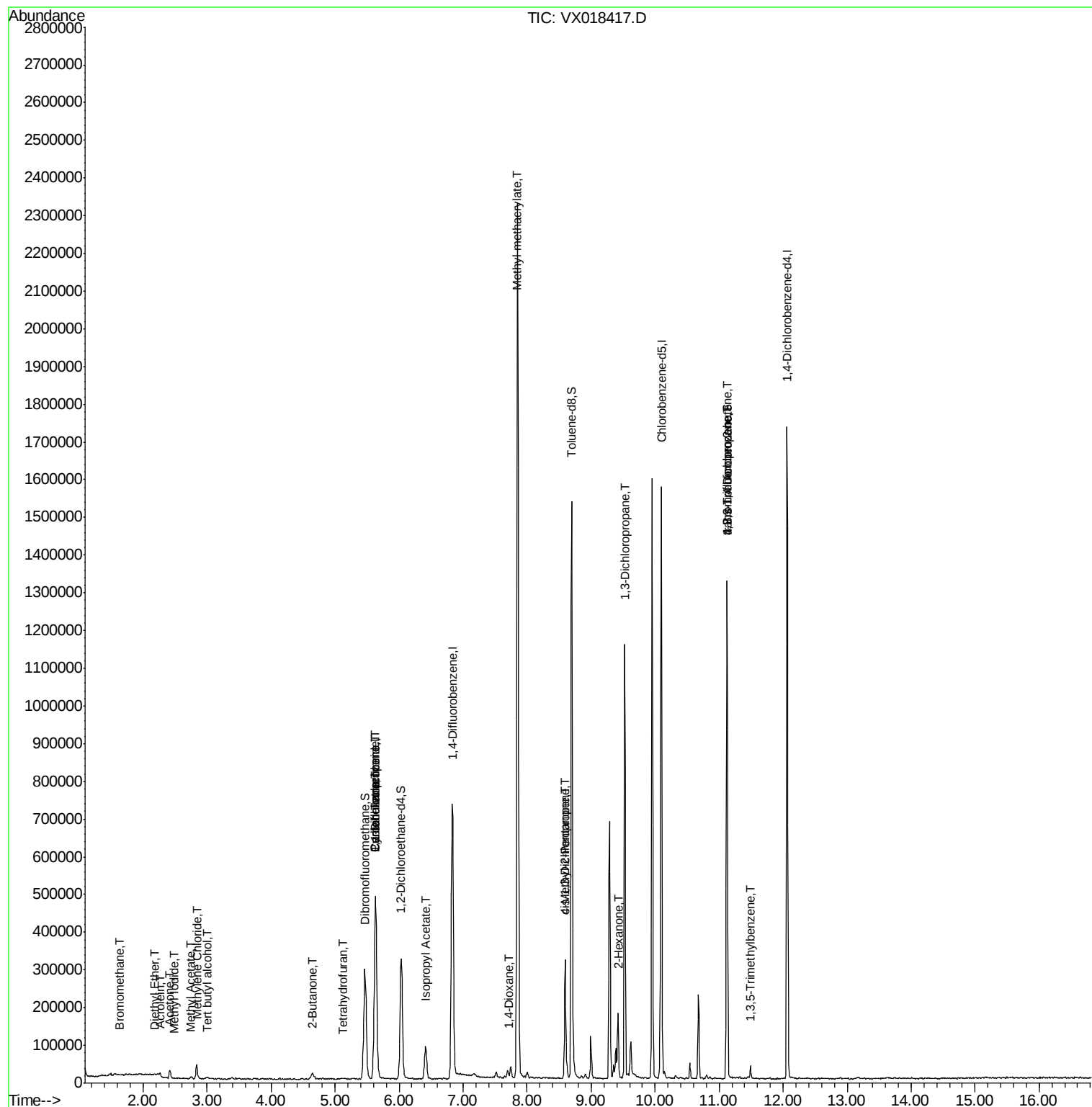
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	540	0.203	ug/l	98
8) Diethyl Ether	2.18	74	656	0.257	ug/l	84
10) Methyl Iodide	2.49	142	145	5.316	ug/l #	76
11) Tert butyl alcohol	3.00	59	4084	3.498	ug/l #	82
13) Acrolein	2.28	56	336	0.694	ug/l #	14
16) Acetone	2.42	43	21845	9.336	ug/l	98
18) Methyl Acetate	2.75	43	8582	1.520	ug/l	97
20) Methylene Chloride	2.84	84	17432	2.535	ug/l #	90
25) 2-Butanone	4.65	43	7386	1.921	ug/l #	77
29) Tetrahydrofuran	5.12	42	2499	1.021	ug/l #	78
31) Cyclohexane	5.63	56	10926	1.520	ug/l #	19
36) 1,1-Dichloropropene	5.63	75	34463	5.218	ug/l #	53
38) Carbon Tetrachloride	5.64	117	47024	6.318	ug/l #	16
43) Isopropyl Acetate	6.42	43	118293	9.548	ug/l	98
48) Methyl methacrylate	7.85	41	203259	32.957	ug/l #	44
49) 1,4-Dioxane	7.71	88	203	1.817	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	118292	15.457	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	50968	5.911	ug/l #	58
57) 1,3-Dichloropropane	9.52	76	10316	1.192	ug/l #	46
59) 2-Hexanone	9.42	43	132033	22.690	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	176401	22.982	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	13941	0.745	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.12	75	176401	62.070	ug/l #	13

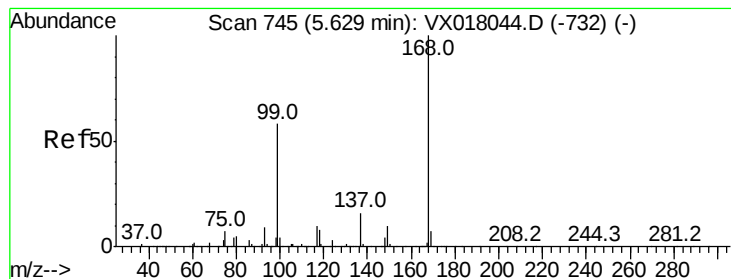
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 16 03:39:01 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# 745

Delta R.T. -0.00 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

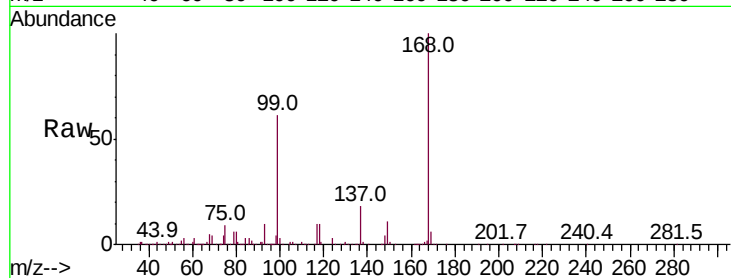
PB131607ZHE#08

Tot Ion:168 Resp: 432541

Ion Ratio Lower Upper

168 100

99 61.4 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

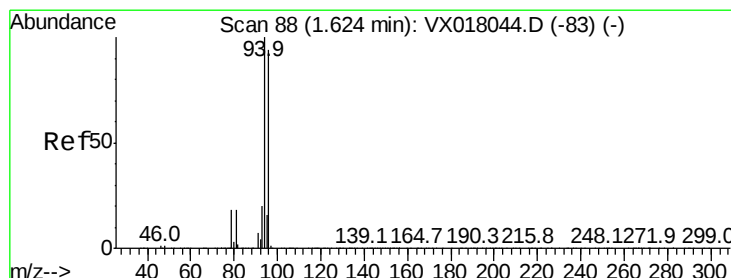
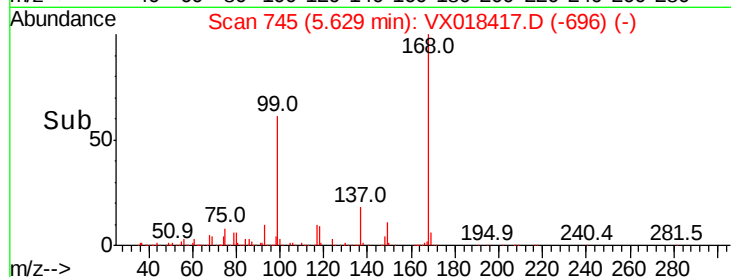
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018417.D

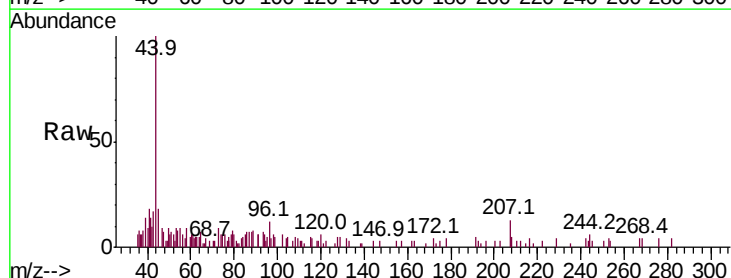
Acq: 15 Sep 2020 19:10

Tgt Ion: 94 Resp: 540

Ion Ratio Lower Upper

94 100

96 95.3 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

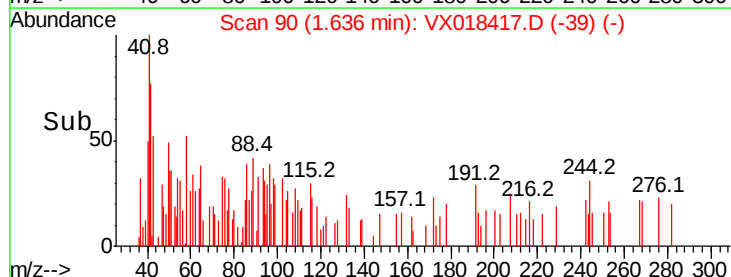
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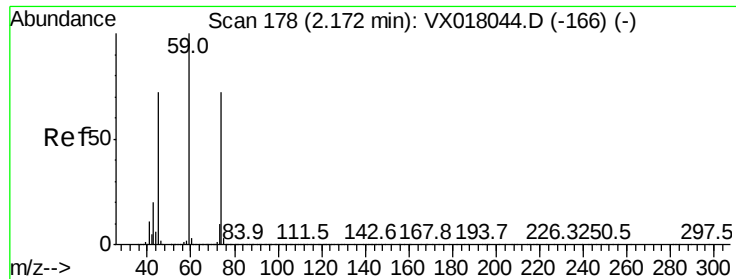
100

0

Time-->

1.60 1.65





#8

Diethyl Ether

Concen: 0.257 ug/l

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

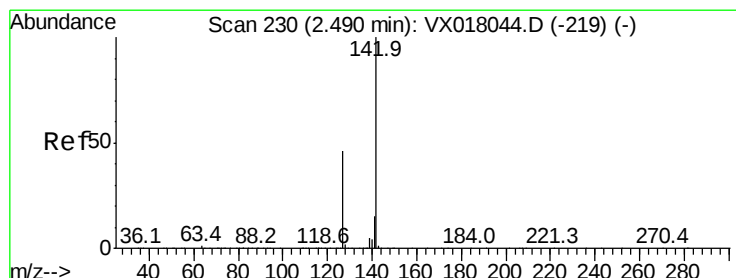
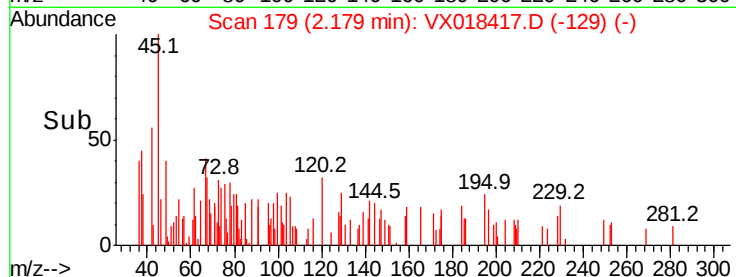
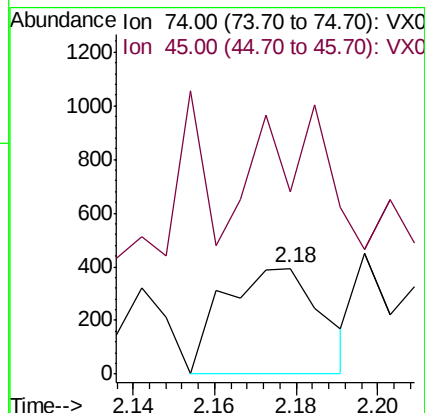
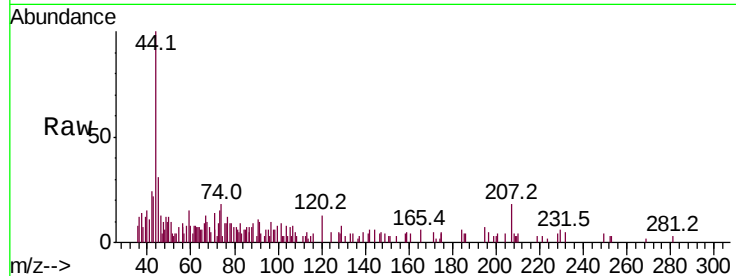
PB131607ZHE#08

Tot Ion: 74 Resp: 656

Ion Ratio Lower Upper

74 100

45 117.7 50.7 152.3



#10

Methyl Iodide

Concen: 5.316 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

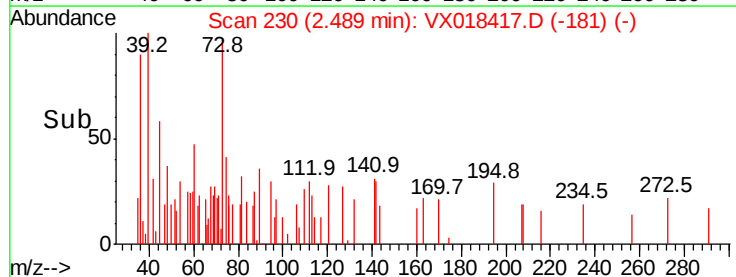
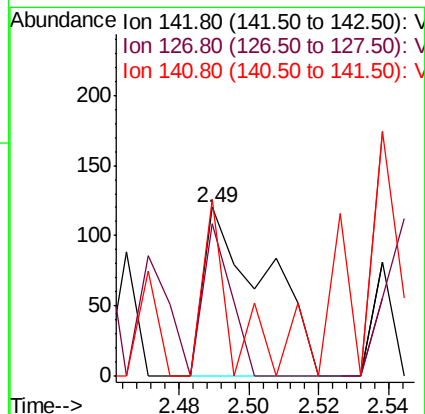
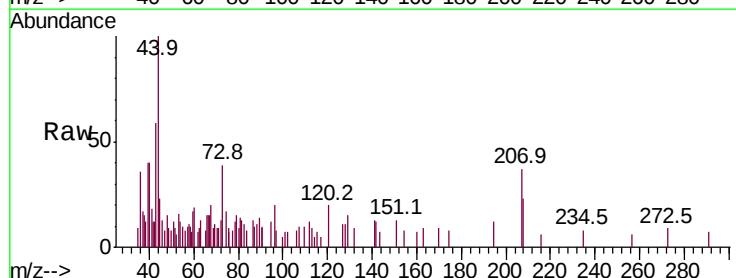
Tgt Ion: 142 Resp: 145

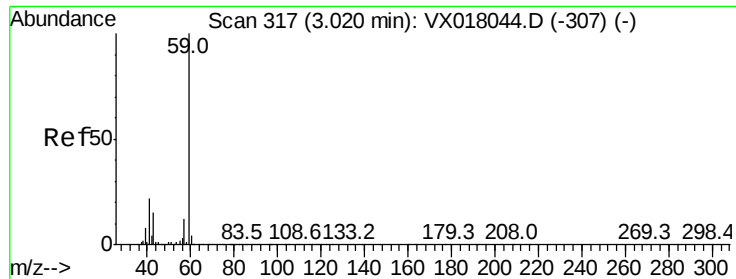
Ion Ratio Lower Upper

142 100

127 40.7 37.0 55.6

141 44.8 11.5 17.3#



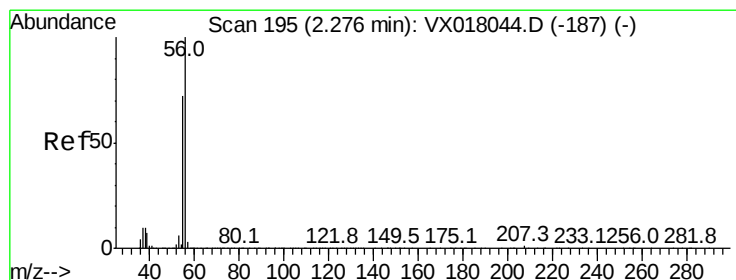
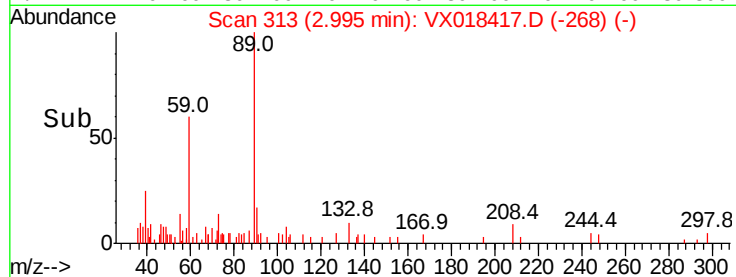
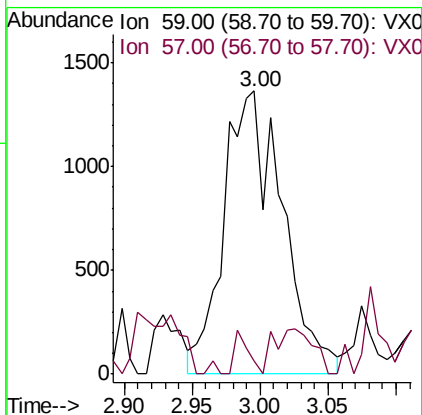
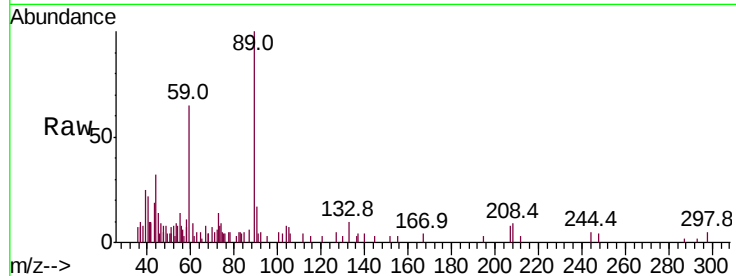


#11

Tert butyl alcohol
 Concen: 3.498 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX018417.D
 Acq: 15 Sep 2020 19:10

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131607ZHE#08

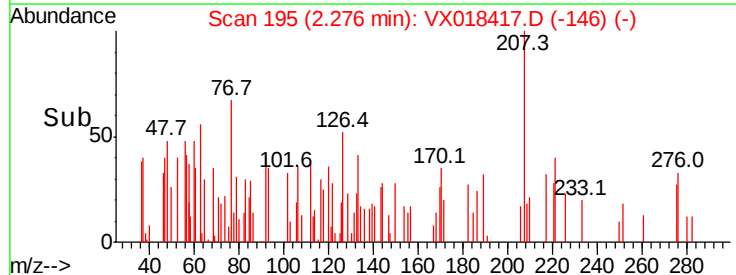
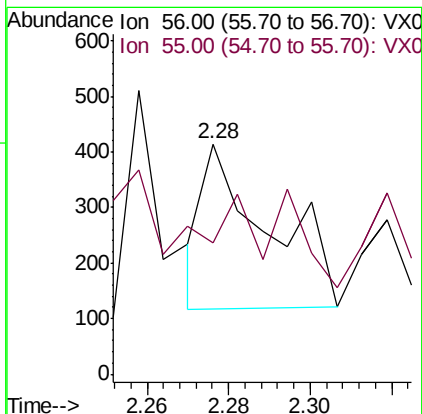
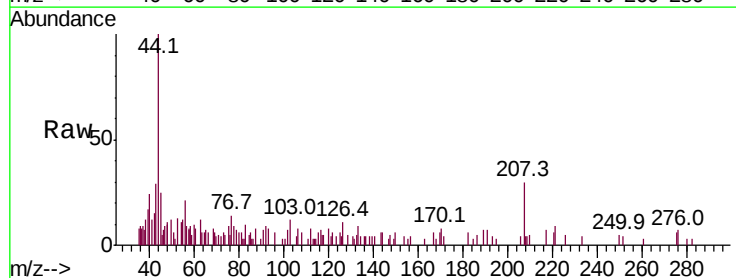
Tot Ion: 59 Resp: 4084
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.9 13.3#

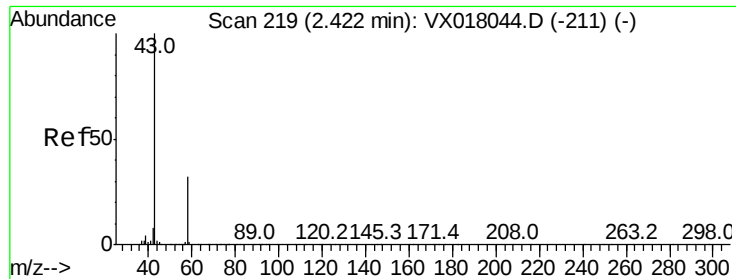


#13

Acrolein
 Concen: 0.694 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX018417.D
 Acq: 15 Sep 2020 19:10

Tgt Ion: 56 Resp: 336
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.6#





#16

Acetone

Concen: 9.336 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

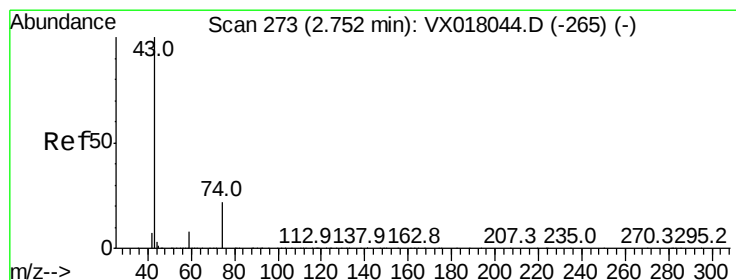
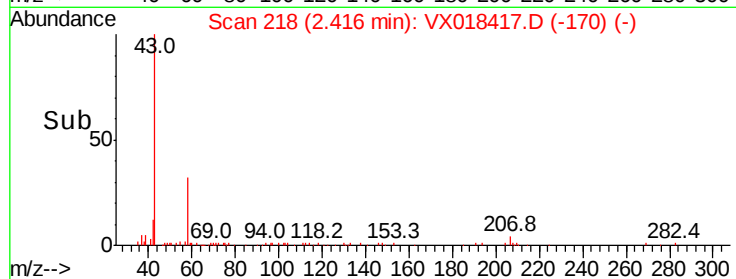
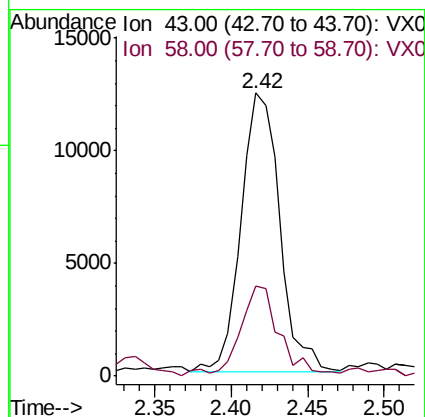
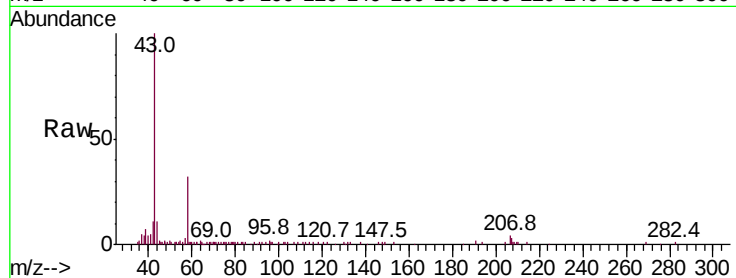
PB131607ZHE#08

Tot Ion: 43 Resp: 21845

Ion Ratio Lower Upper

43 100

58 31.0 25.5 38.3



#18

Methyl Acetate

Concen: 1.520 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018417.D

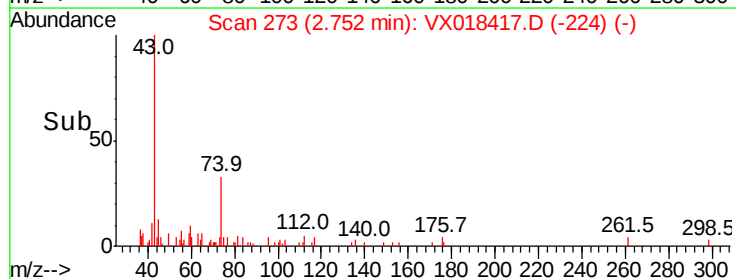
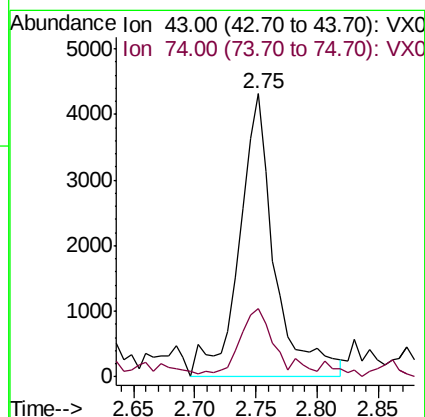
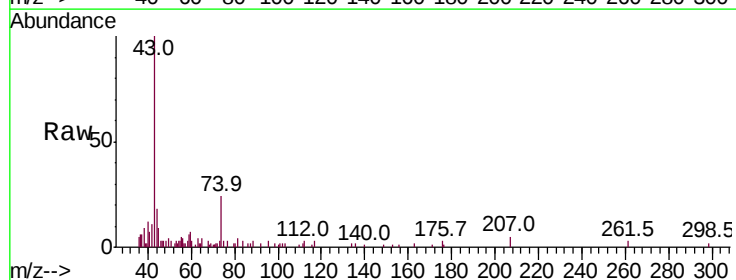
Acq: 15 Sep 2020 19:10

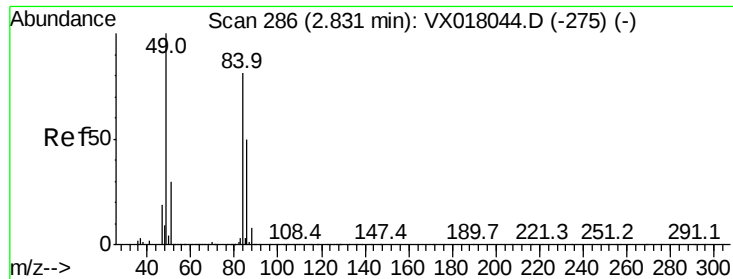
Tgt Ion: 43 Resp: 8582

Ion Ratio Lower Upper

43 100

74 21.2 18.2 27.4

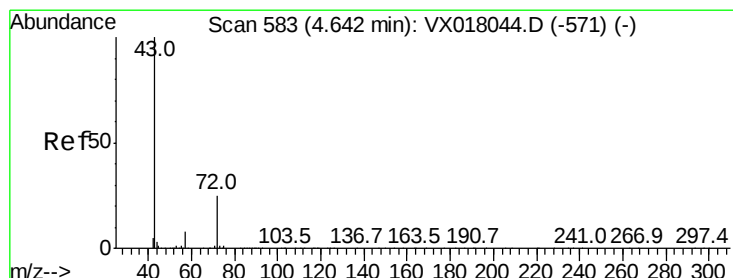
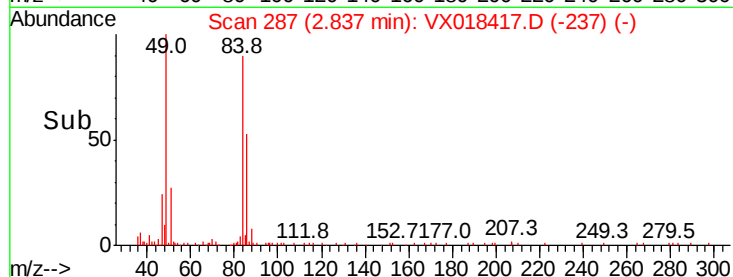
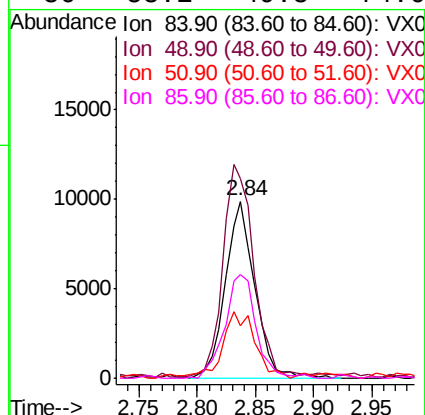
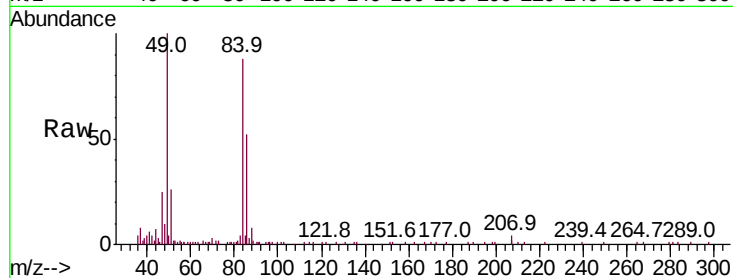




#20
Methvlene Chloride
Concen: 2.535 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

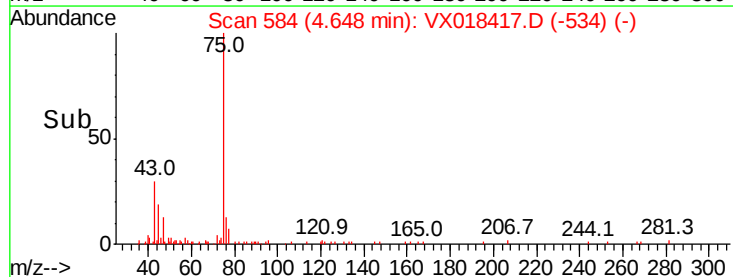
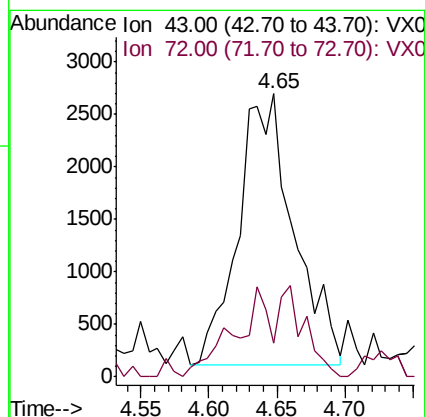
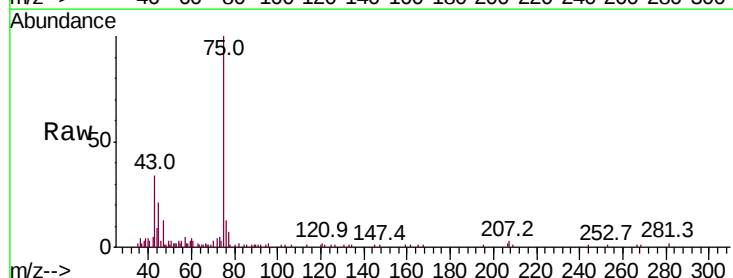
Instrument :
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PB131607ZHE#08

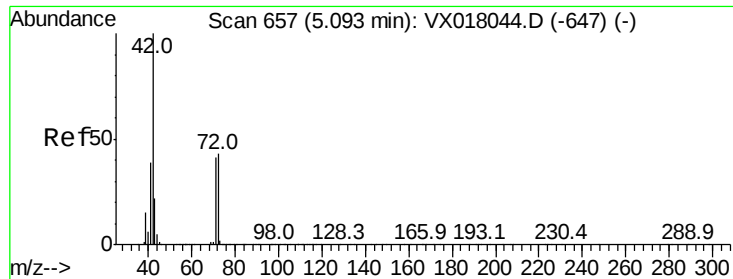
Tot Ion: 84 Resp: 17432
Ion Ratio Lower Upper
84 100
49 111.5 98.6 148.0
51 27.5 29.6 44.4#
86 58.1 49.8 74.6



#25
2-Butanone
Concen: 1.921 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

Tgt Ion: 43 Resp: 7386
Ion Ratio Lower Upper
43 100
72 13.0 19.8 29.6#

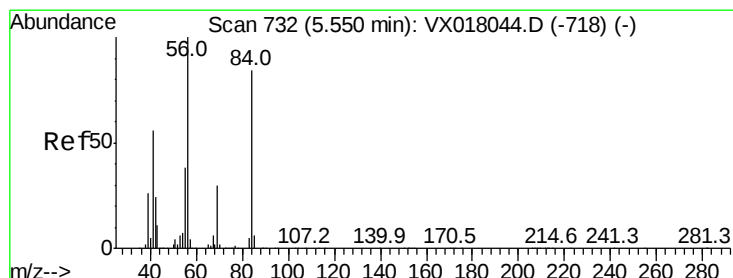
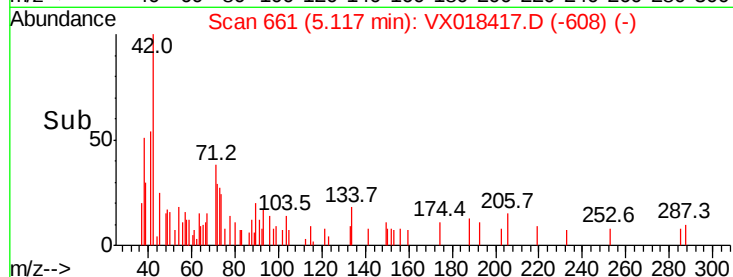
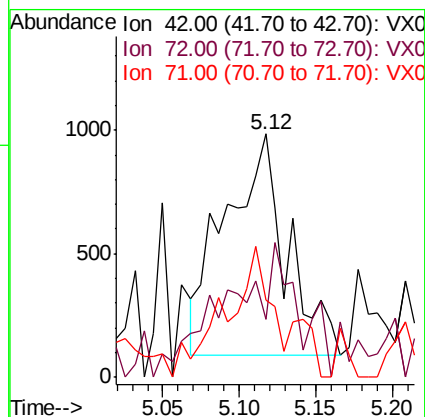
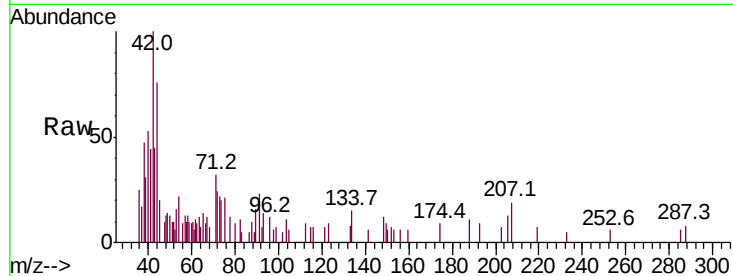




#29
Tetrahydrofuran
Concen: 1.021 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

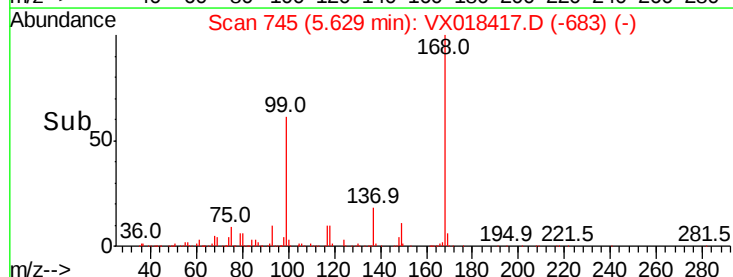
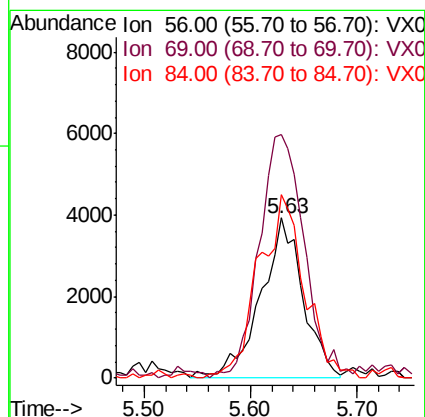
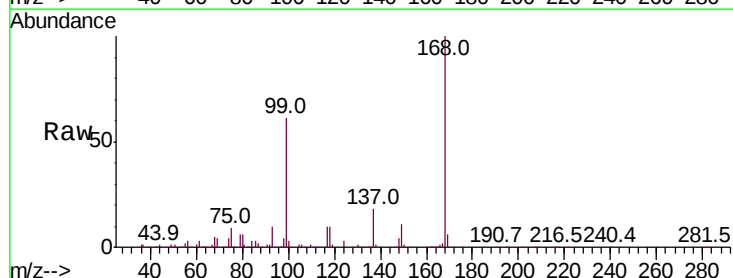
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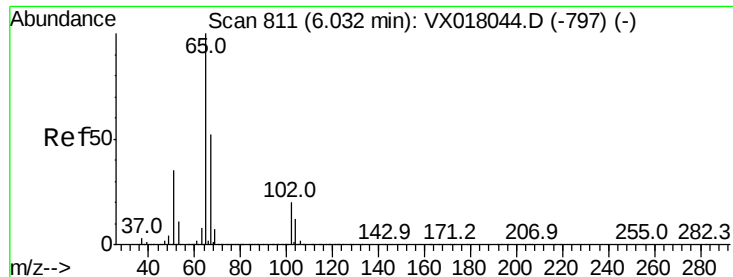
Tot Ion: 42 Resp: 2499
Ion Ratio Lower Upper
42 100
72 28.6 34.2 51.4#
71 27.1 32.1 48.1#



#31
Cyclohexane
Concen: 1.520 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

Tgt Ion: 56 Resp: 10926
Ion Ratio Lower Upper
56 100
69 147.9 23.9 35.9#
84 112.4 67.0 100.4#





#33

1,2-Dichloroethane-d4

Concen: 53.665 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

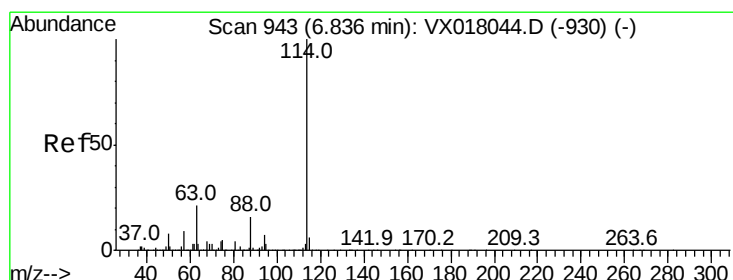
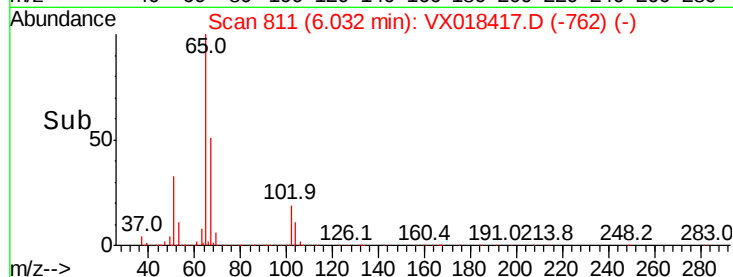
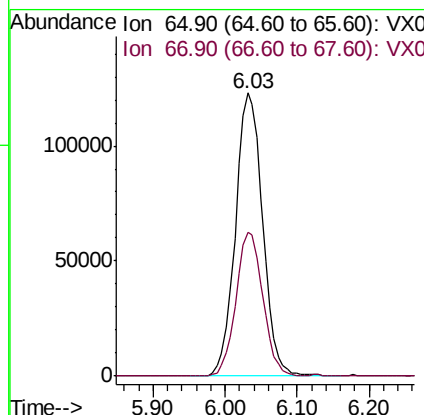
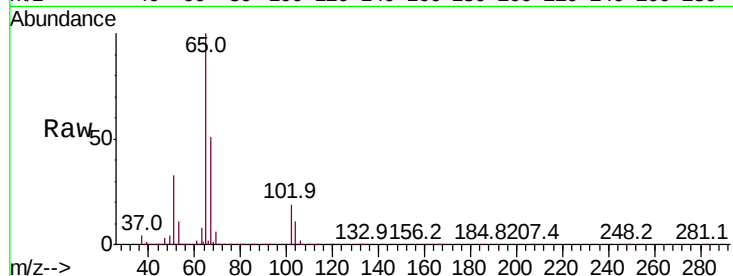
Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :
MSVOA_X
ClientSampleId :
PB131607ZHE#08

Tot Ion: 65 Resp: 322247

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

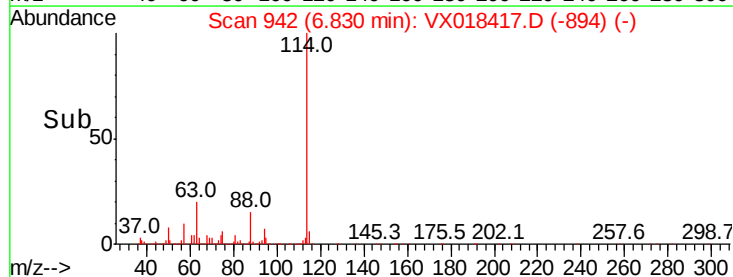
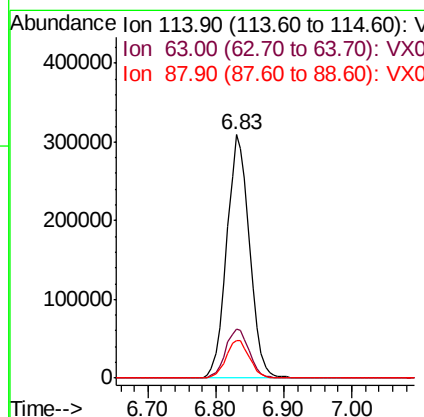
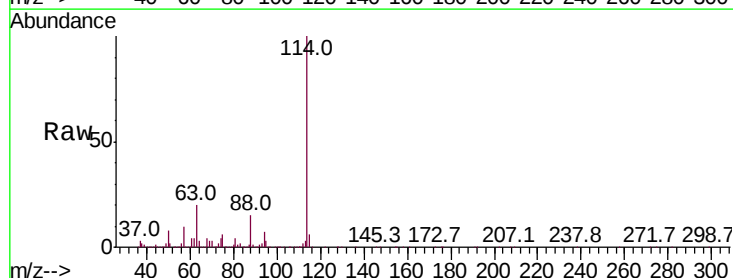
Delta R.T. -0.01 min

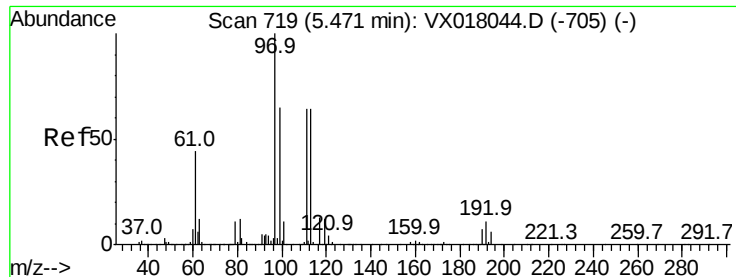
Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Tgt Ion: 114 Resp: 716018

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.4	0.0	31.8





#35

Dibromofluoromethane

Concen: 51.997 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

PB131607ZHE#08

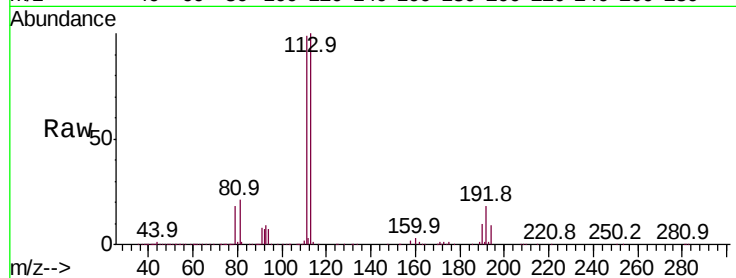
Tot Ion:113 Resp: 253559

Ion Ratio Lower Upper

113 100

111 100.2 81.6 122.4

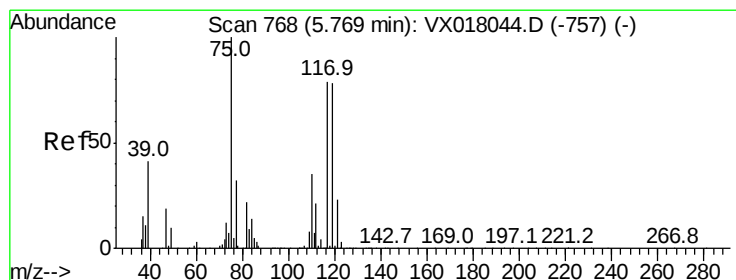
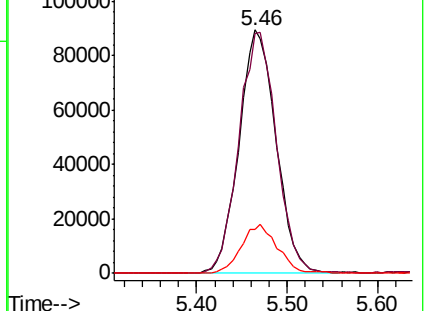
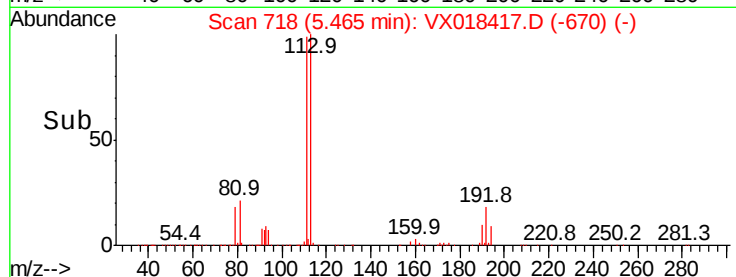
192 19.6 15.8 23.8



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: 5.218 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

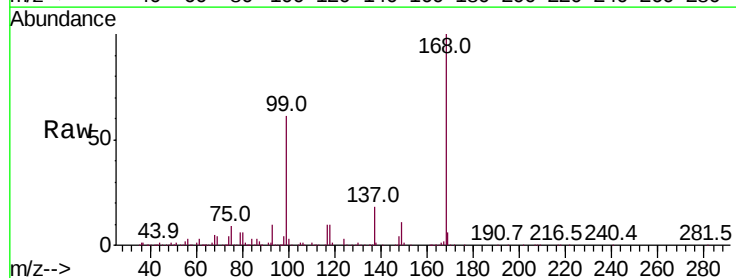
Tgt Ion: 75 Resp: 34463

Ion Ratio Lower Upper

75 100

110 12.1 18.0 54.0#

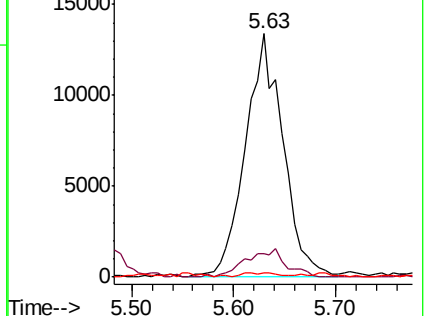
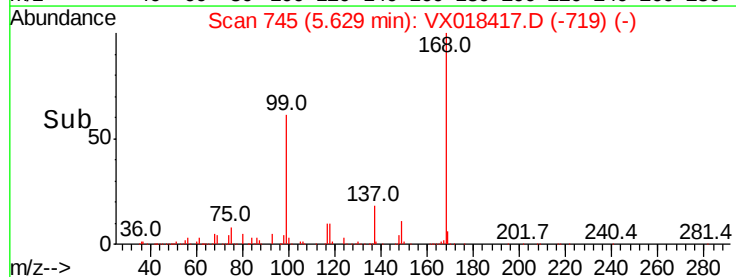
77 0.9 24.4 36.6#

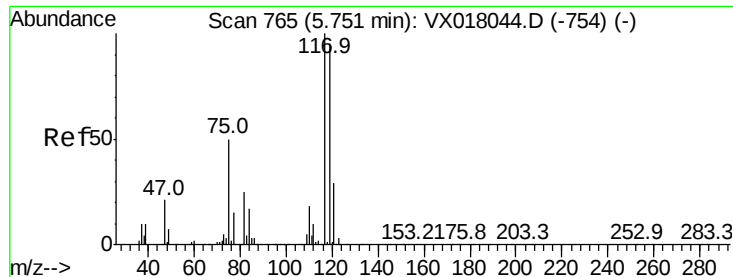


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.318 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

PB131607ZHE#08

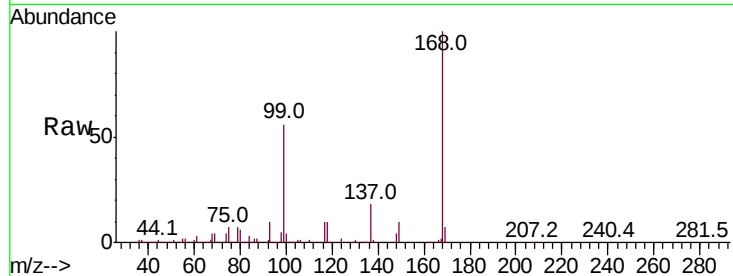
Tot Ion:117 Resp: 47024

Ion Ratio Lower Upper

117 100

119 4.0 75.8 113.6#

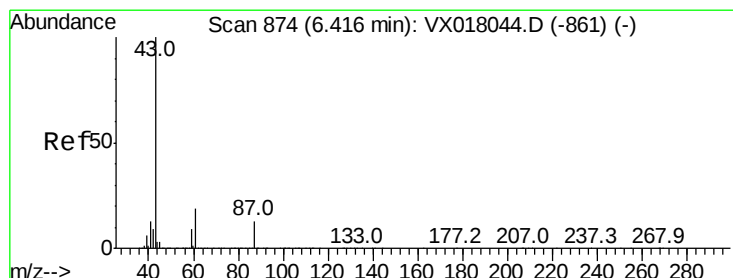
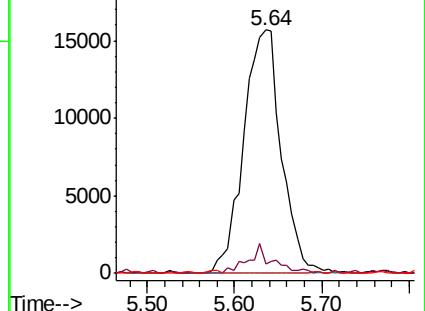
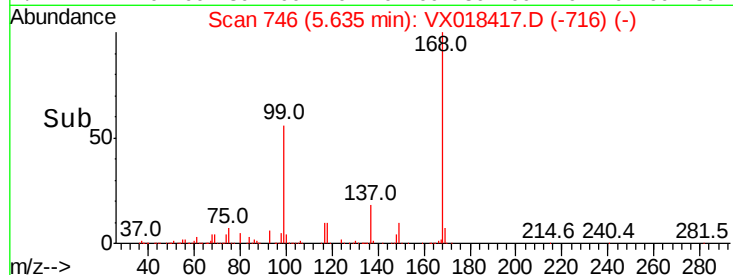
121 0.0 23.4 35.0#



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: 9.548 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

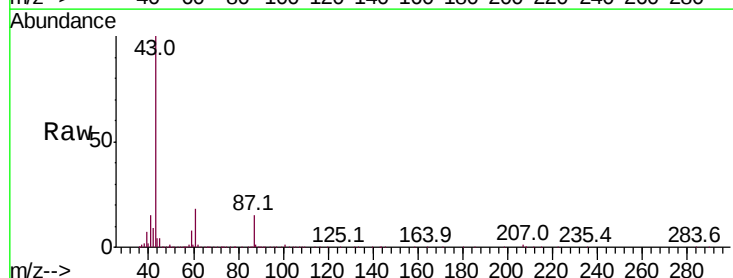
Tgt Ion: 43 Resp: 118293

Ion Ratio Lower Upper

43 100

61 20.3 15.7 23.5

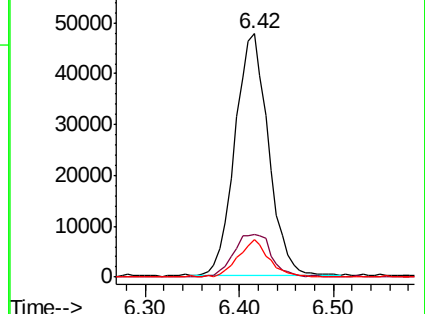
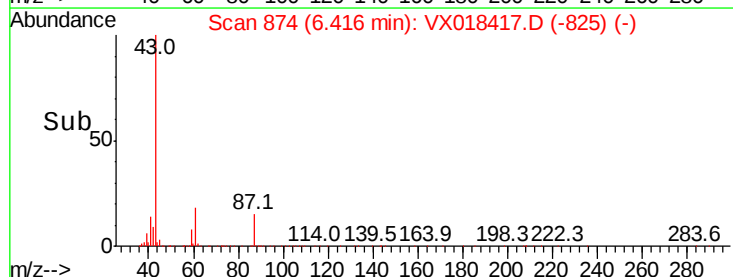
87 14.1 10.3 15.5

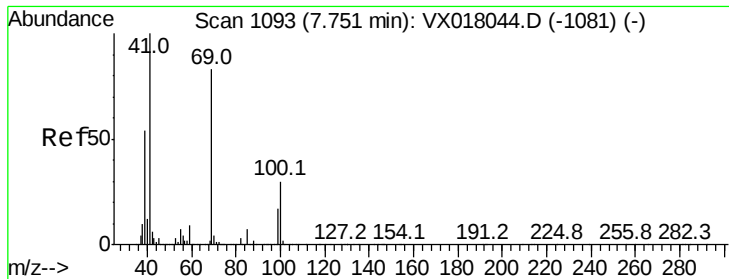


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 32.957 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

PB131607ZHE#08

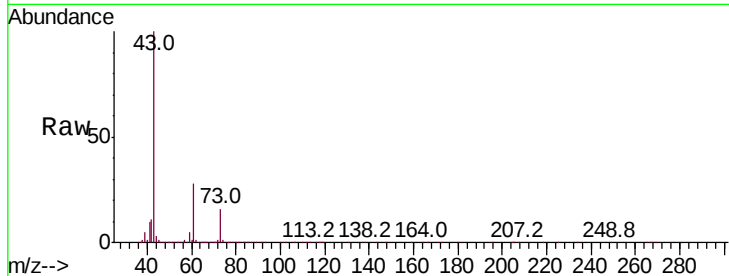
Tot Ion: 41 Resp: 203259

Ion Ratio Lower Upper

41 100

69 0.3 65.5 98.3#

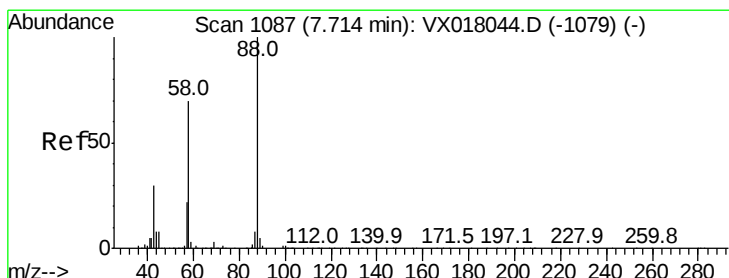
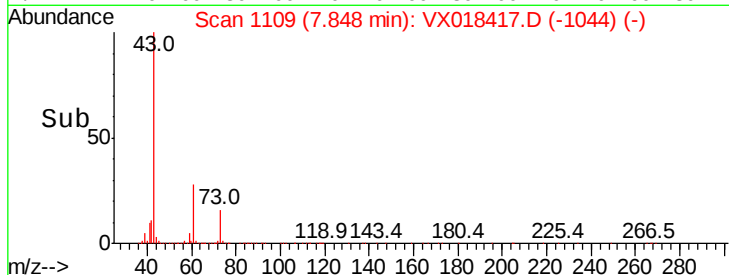
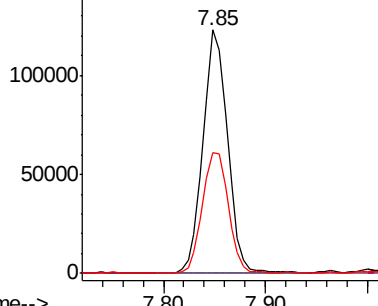
39 52.6 44.5 66.7



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: 1.817 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

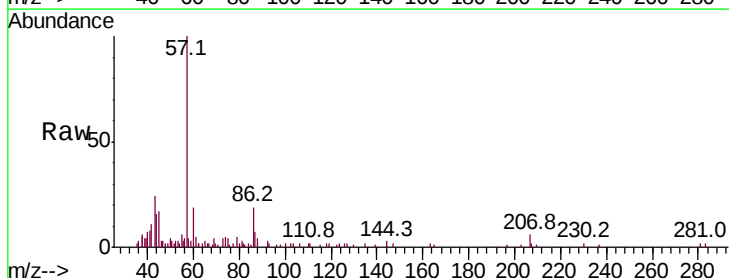
Tgt Ion: 88 Resp: 203

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

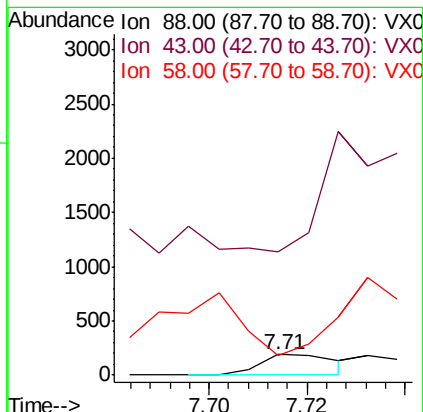
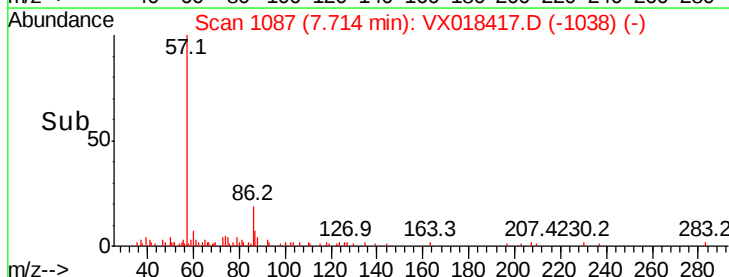
58 472.4 56.4 84.6#

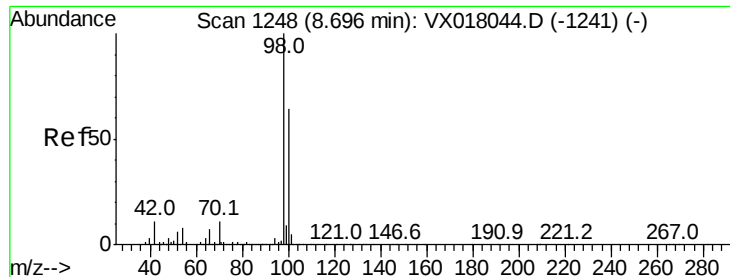


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.943 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

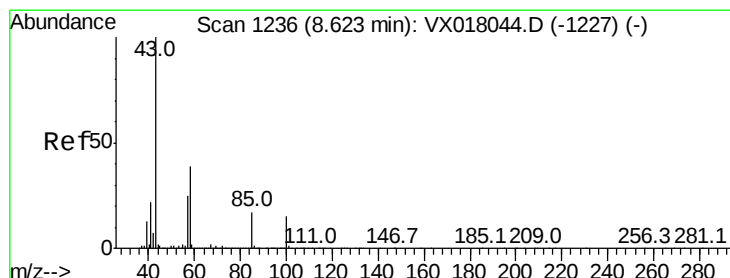
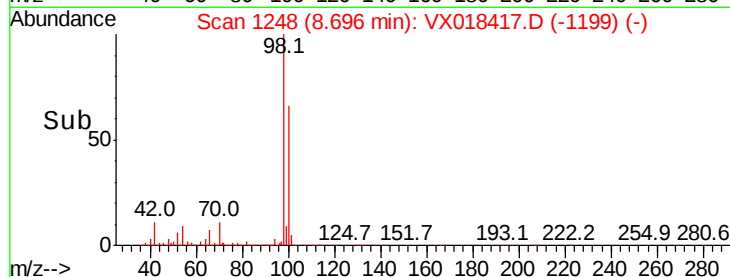
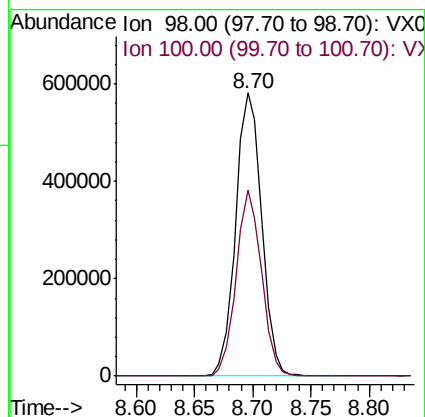
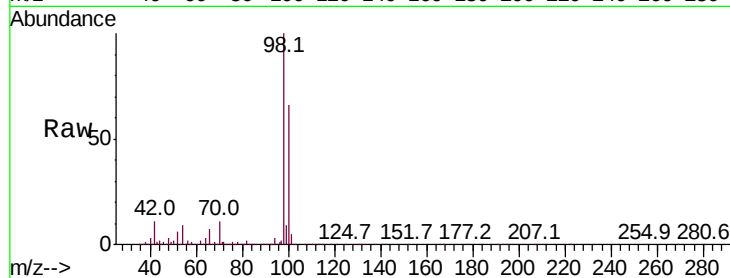
PB131607ZHE#08

Tot Ion: 98 Resp: 907093

Ion Ratio Lower Upper

98 100

100 64.1 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 15.457 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX018417.D

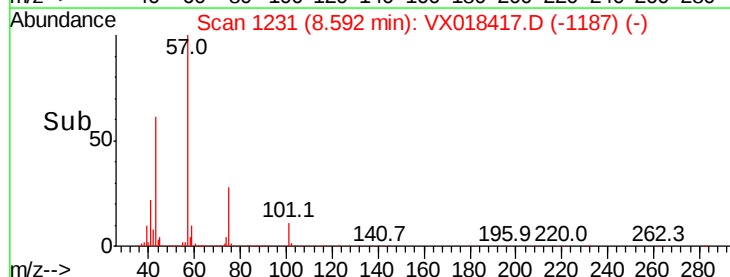
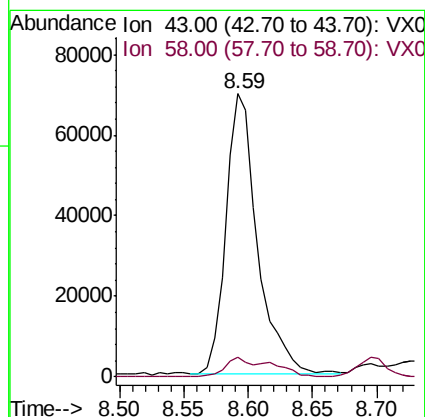
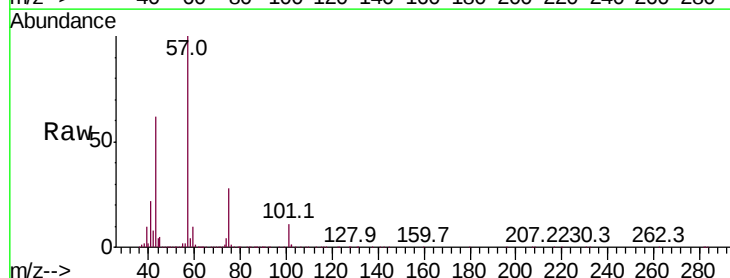
Acq: 15 Sep 2020 19:10

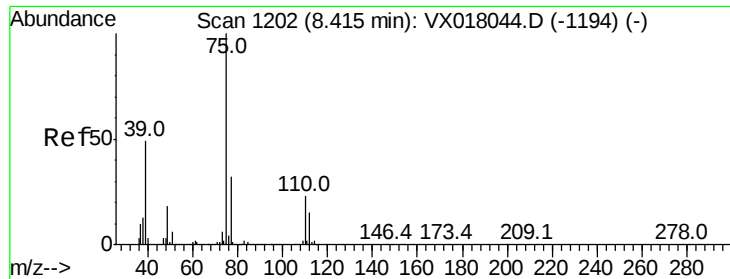
Tgt Ion: 43 Resp: 118292

Ion Ratio Lower Upper

43 100

58 5.4 30.7 46.1#





#54

cis-1,3-Dichloropropene

Concen: 5.911 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

PB131607ZHE#08

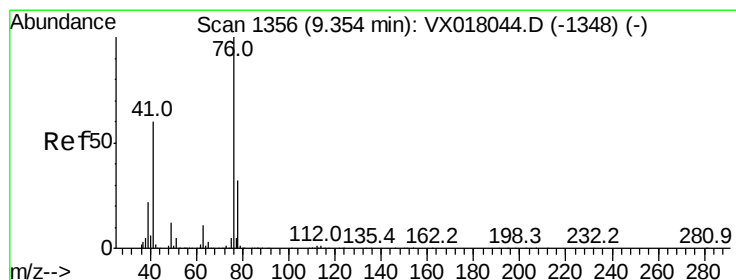
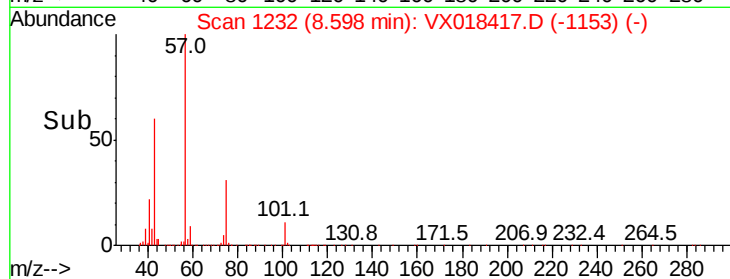
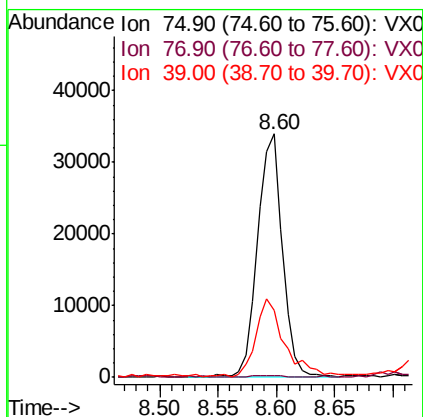
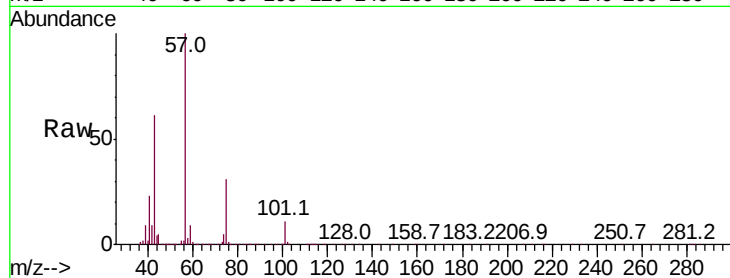
Tot Ion: 75 Resp: 50968

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.8#

39 27.0 38.8 58.2#



#57

1,3-Dichloropropane

Concen: 1.192 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018417.D

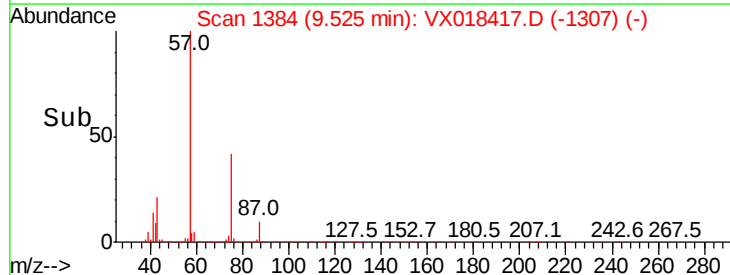
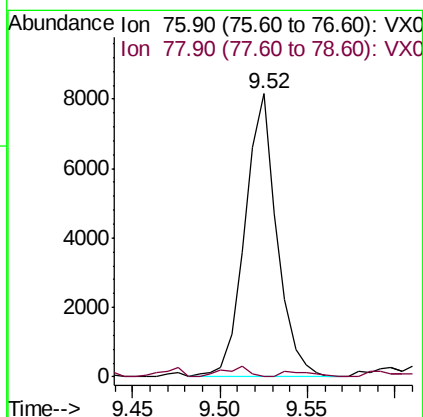
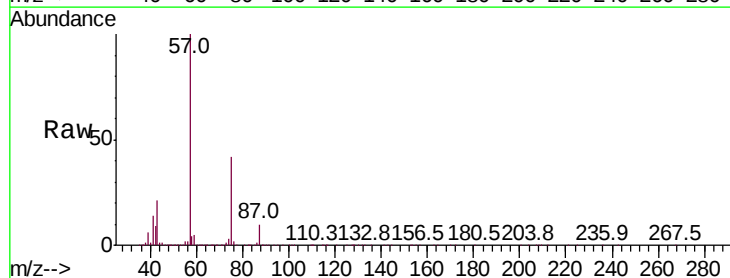
Acq: 15 Sep 2020 19:10

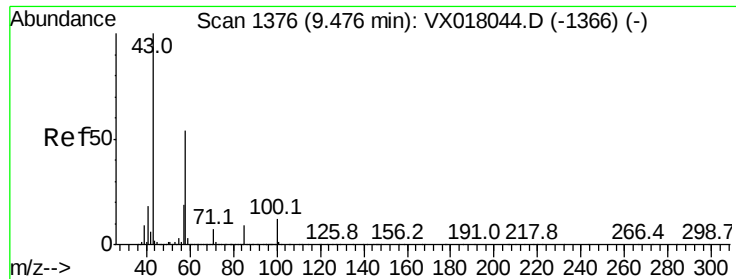
Tgt Ion: 76 Resp: 10316

Ion Ratio Lower Upper

76 100

78 2.1 25.8 38.6#

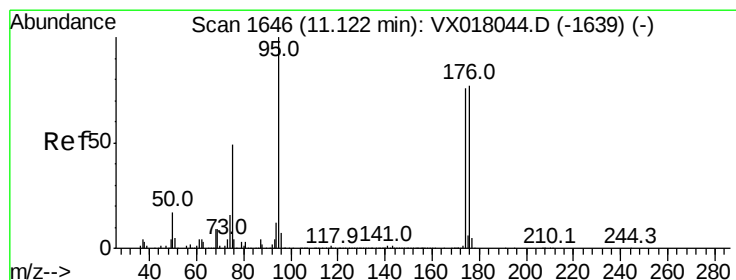
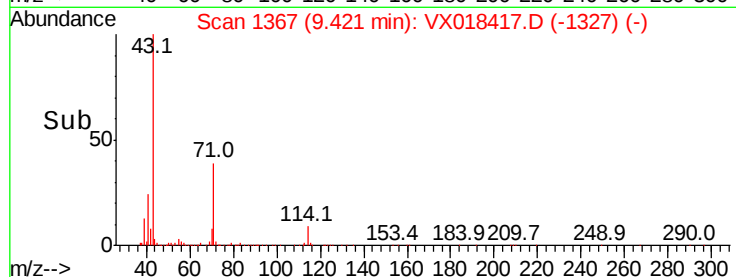
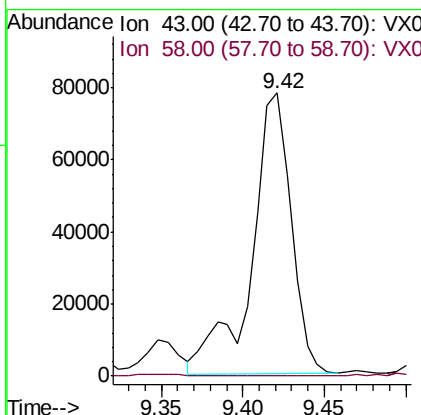
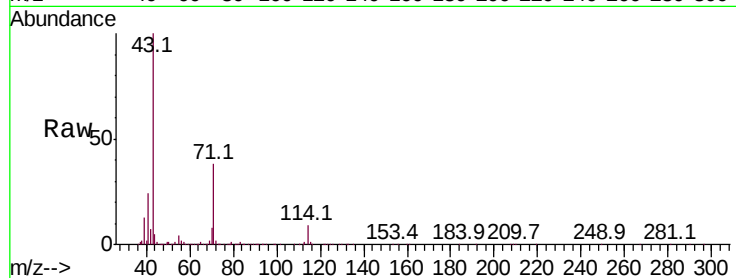




#59
2-Hexanone
Concen: 22.690 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

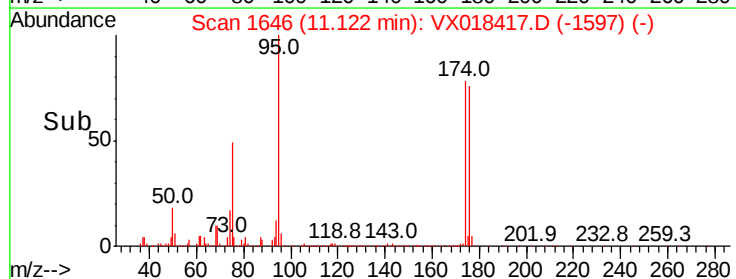
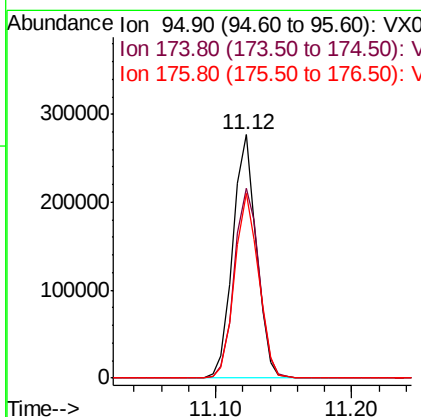
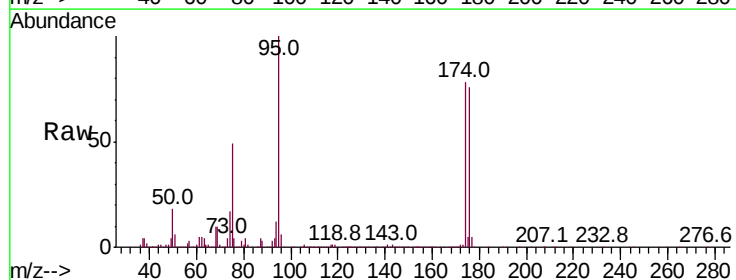
Instrument :
MSVOA_X
ClientSampleId :
PB131607ZHE#08

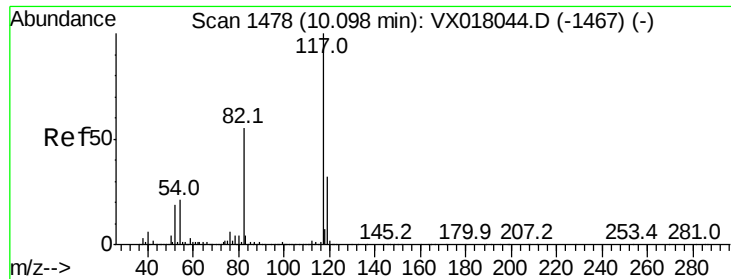
Tot Ion: 43 Resp: 132033
Ion Ratio Lower Upper
43 100
58 0.0 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 46.906 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

Tgt Ion: 95 Resp: 335183
Ion Ratio Lower Upper
95 100
174 81.7 0.0 160.2
176 77.4 0.0 155.8

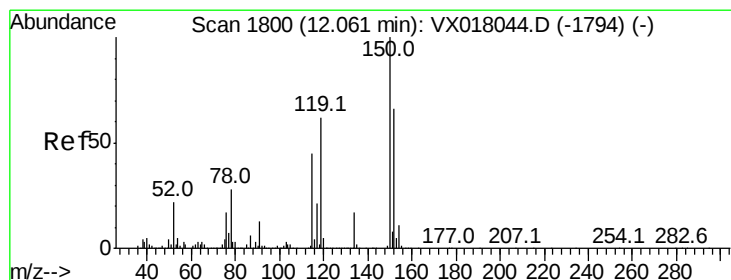
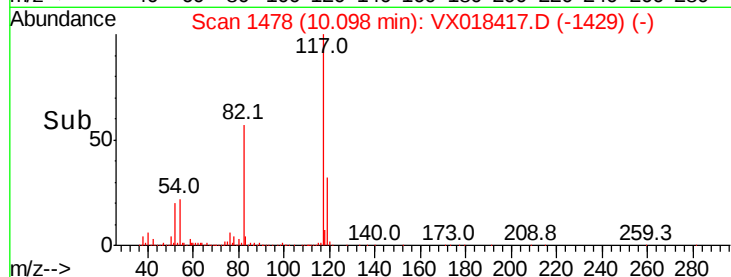
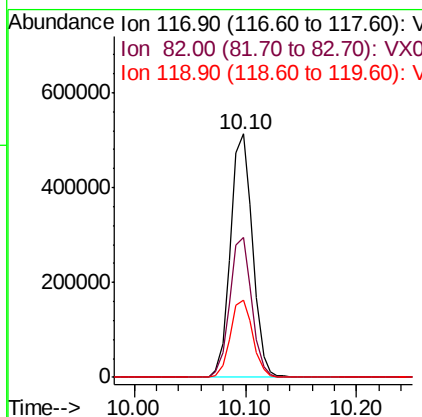
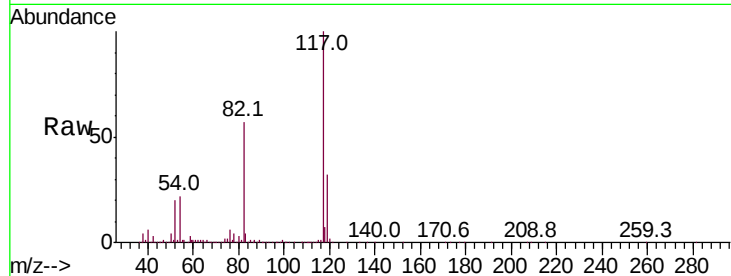




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

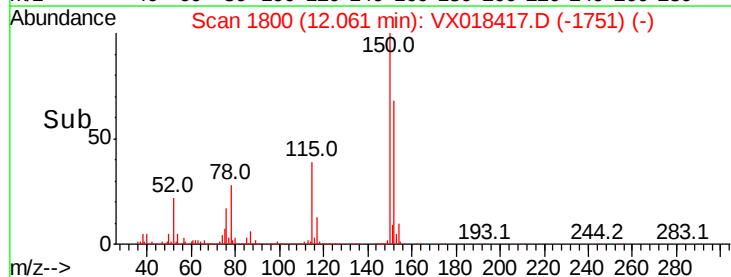
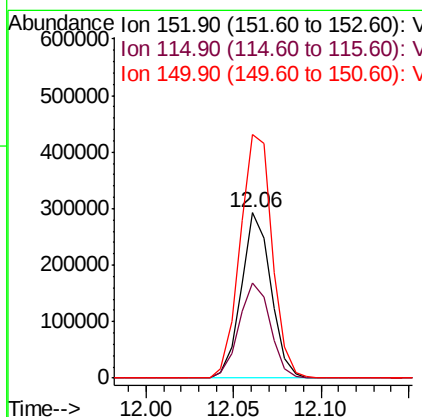
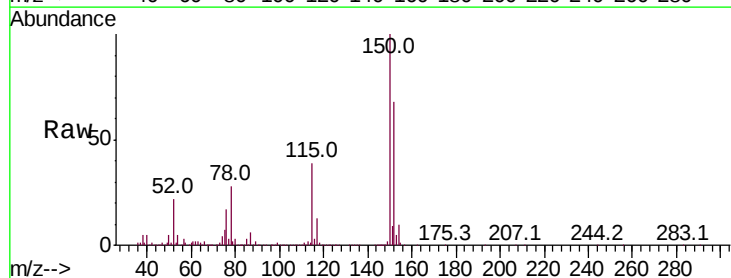
Instrument :
MSVOA_X
ClientSampleId :
PB131607ZHE#08

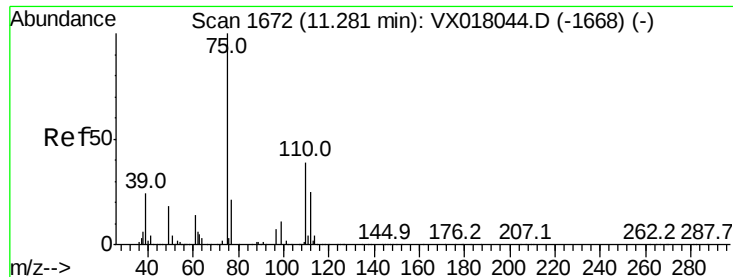
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.2	66.2
119	31.8	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018417.D
Acq: 15 Sep 2020 19:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.8	41.5	124.5
150	159.0	0.0	343.8





#76

1,2,3-Trichloropropane

Concen: 22.982 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

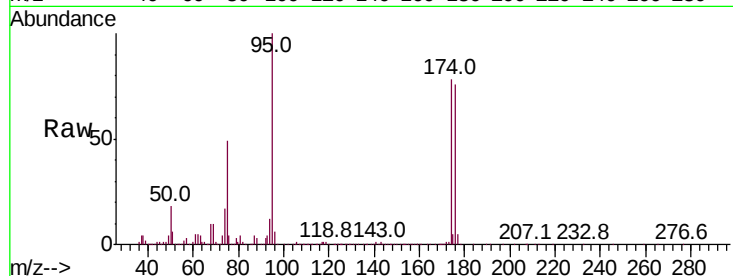
PB131607ZHE#08

Tot Ion: 75 Resp: 176401

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

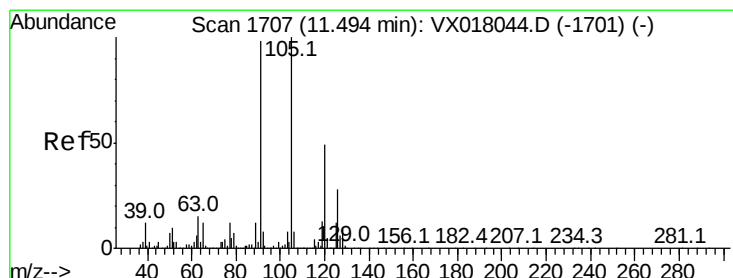
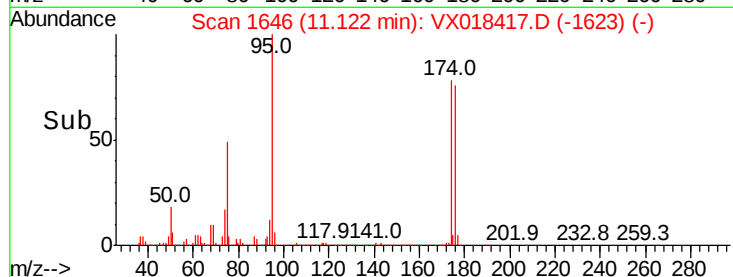
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#80

1,3,5-Trimethylbenzene

Concen: 0.745 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018417.D

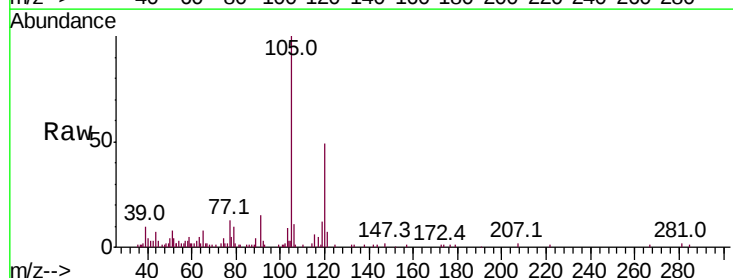
Acq: 15 Sep 2020 19:10

Tgt Ion: 105 Resp: 13941

Ion Ratio Lower Upper

105 100

120 52.9 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

12000

10000

8000

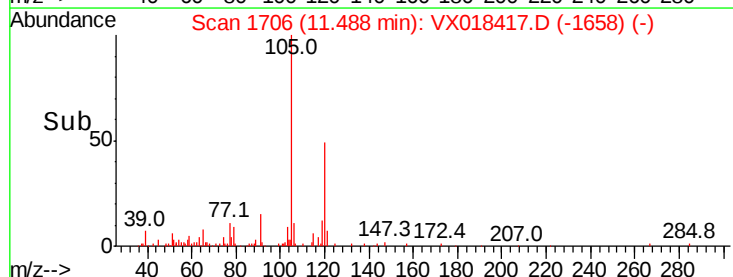
6000

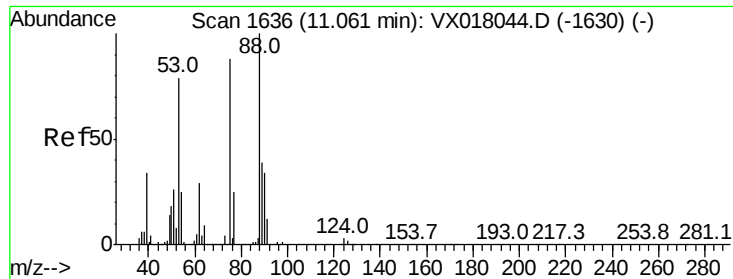
4000

2000

0

Time--> 11.45 11.50 11.55





#81

trans-1,4-Dichloro-2-butene

Concen: 62.070 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018417.D

Acq: 15 Sep 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

PB131607ZHE#08

Tot Ion: 75 Resp: 176401

Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

89 0.3 36.6 54.8#

