

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082620\
 Data File : VX018070.D
 Acq On : 26 Aug 2020 12:30
 Operator : JC/SP
 Sample : PB131195ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#01

Quant Time: Aug 27 04:03:14 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	454577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	718244	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	680335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	324365	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	305638	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	5.47	113	241837	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	8.70	98	848665	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	
62) 4-Bromofluorobenzene	11.12	95	318773	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	

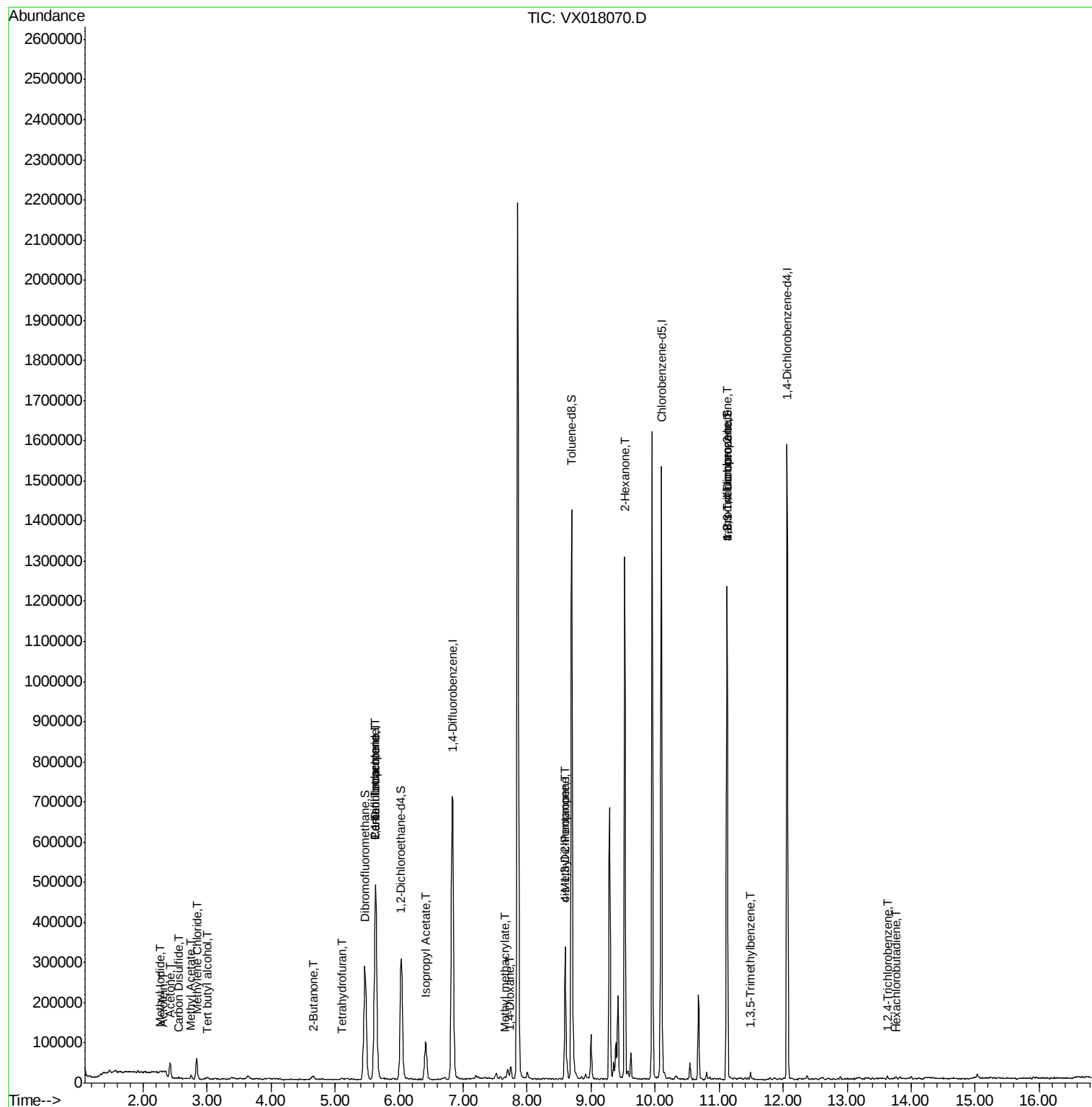
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.26	142	167	5.319	ug/l	93
11) Tert butyl alcohol	3.01	59	1513	1.233	ug/l #	83
13) Acrolein	2.31	56	447	0.879	ug/l #	14
16) Acetone	2.42	43	40090	16.303	ug/l	97
17) Carbon Disulfide	2.55	76	3638	0.271	ug/l #	94
18) Methyl Acetate	2.75	43	9095	1.533	ug/l #	90
20) Methylene Chloride	2.84	84	23388	3.567	ug/l	97
25) 2-Butanone	4.65	43	9507	2.352	ug/l #	89
29) Tetrahydrofuran	5.11	42	3274	1.273	ug/l #	75
36) 1,1-Dichloropropene	5.63	75	34387	5.191	ug/l #	47
38) Carbon Tetrachloride	5.63	117	45495	6.094	ug/l #	19
43) Isopropyl Acetate	6.42	43	130079	10.467	ug/l	98
48) Methyl methacrylate	7.65	41	6378	1.031	ug/l #	17
49) 1,4-Dioxane	7.72	88	73	0.651	ug/l #	23
51) 4-Methyl-2-Pentanone	8.59	43	124281	16.190	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	53258	6.158	ug/l #	64
59) 2-Hexanone	9.52	43	144130	24.692	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	164667	22.821	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	6753	0.384	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.12	75	164667	61.635	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1631	0.250	ug/l	95
94) Hexachlorobutadiene	13.77	225	679	0.264	ug/l	85

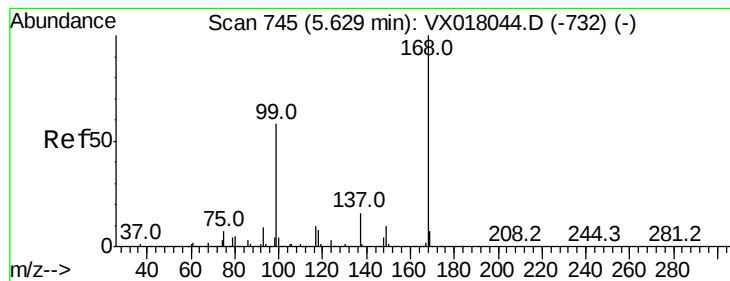
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 27 04:03:14 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

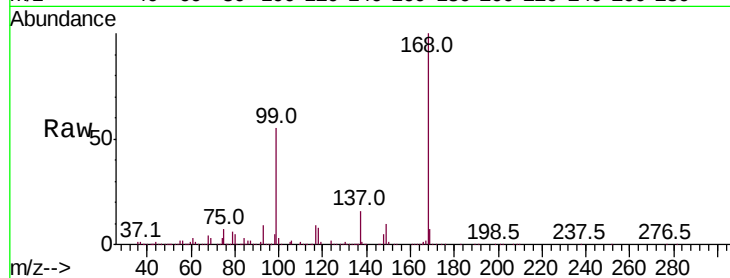
PB131195ZHE#01

Tot Ion:168 Resp: 454577

Ion Ratio Lower Upper

168 100

99 55.2 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

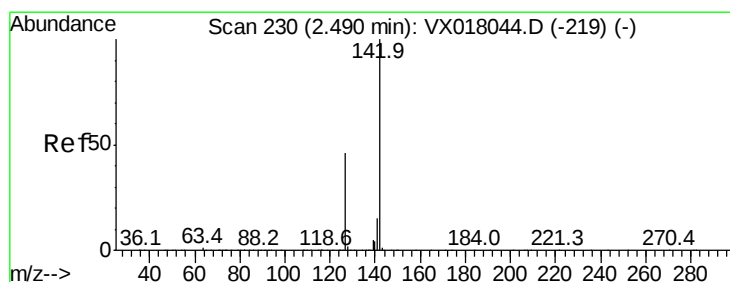
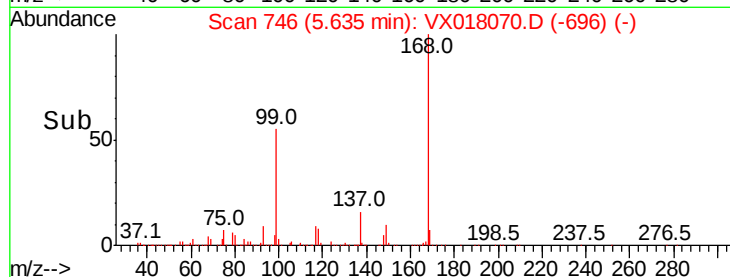
100000

50000

0

Time-->

5.50 5.60 5.70



#10

Methyl Iodide

Concen: 5.319 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.23 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

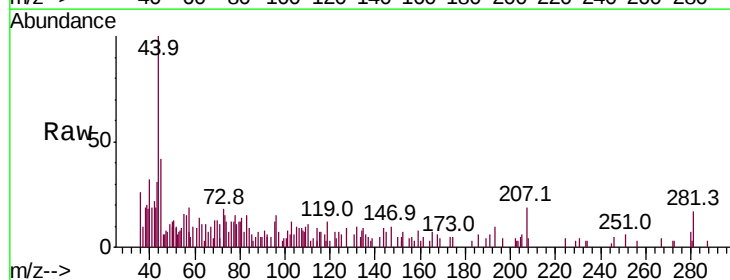
Tgt Ion:142 Resp: 167

Ion Ratio Lower Upper

142 100

127 41.3 37.0 55.6

141 16.8 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

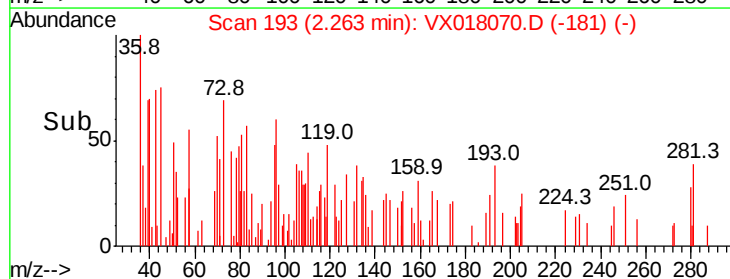
100

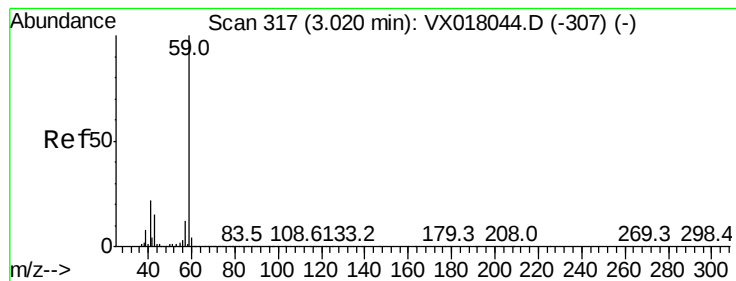
50

0

Time-->

2.24 2.26 2.28



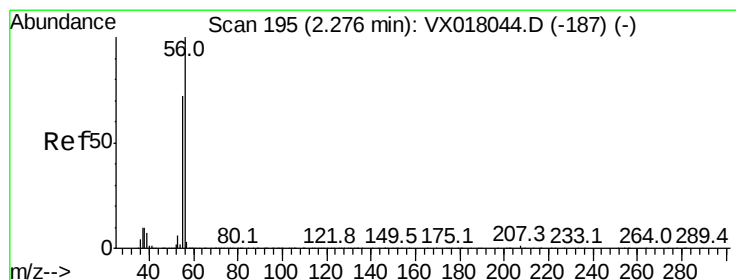
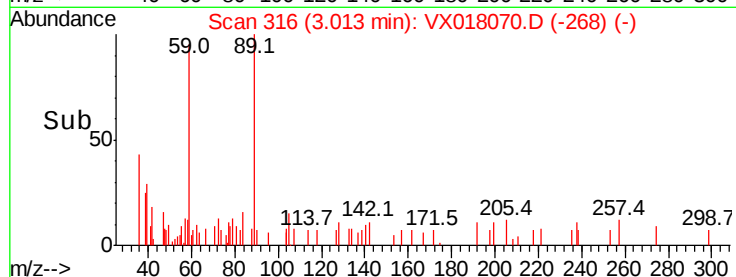
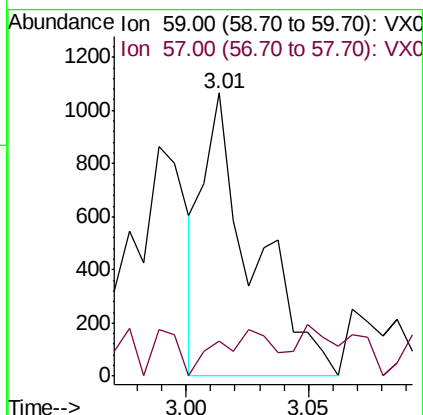
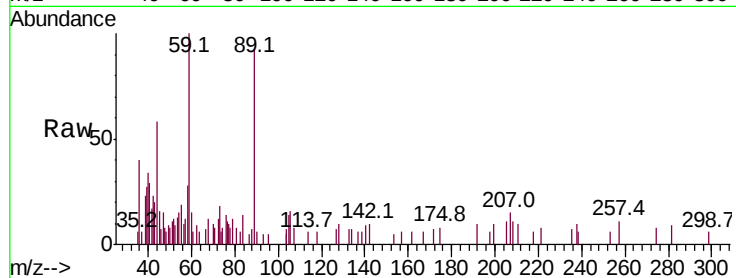


#11

Tert butyl alcohol
 Concen: 1.233 ug/l
 RT: 3.01 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VX018070.D
 Acq: 26 Aug 2020 12:30

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#01

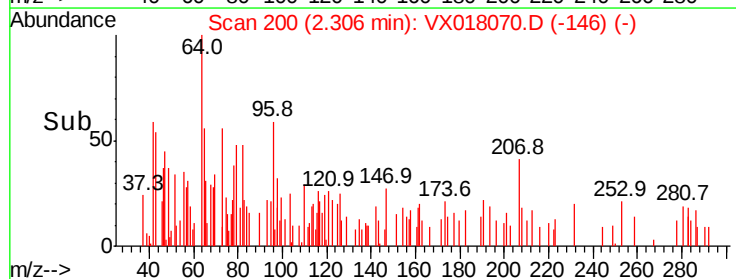
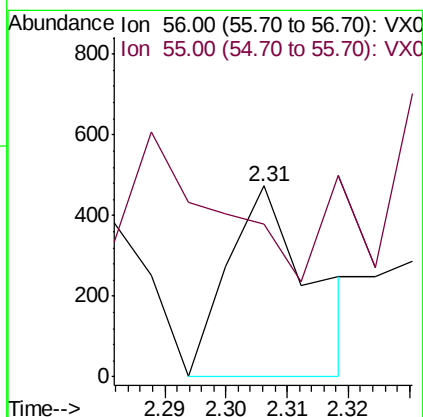
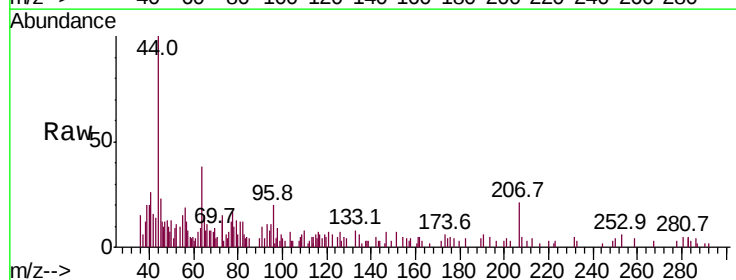
Tot Ion: 59 Resp: 1513
 Ion Ratio Lower Upper
 59 100
 57 17.7 8.9 13.3#

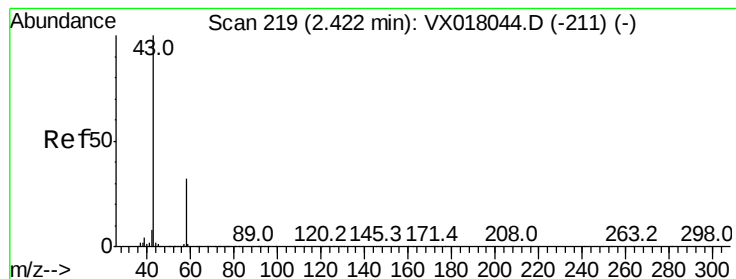


#13

Acrolein
 Concen: 0.879 ug/l
 RT: 2.31 min Scan# 200
 Delta R.T. 0.03 min
 Lab File: VX018070.D
 Acq: 26 Aug 2020 12:30

Tgt Ion: 56 Resp: 447
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.6#





#16

Acetone

Concen: 16.303 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

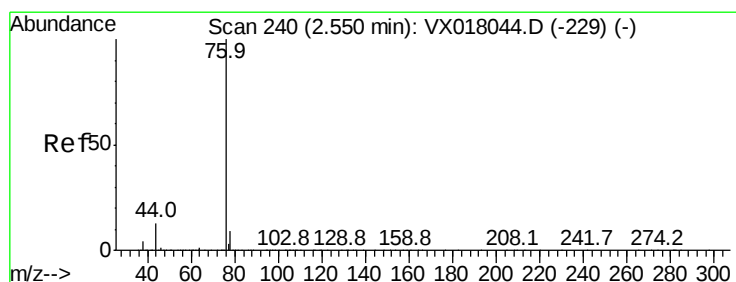
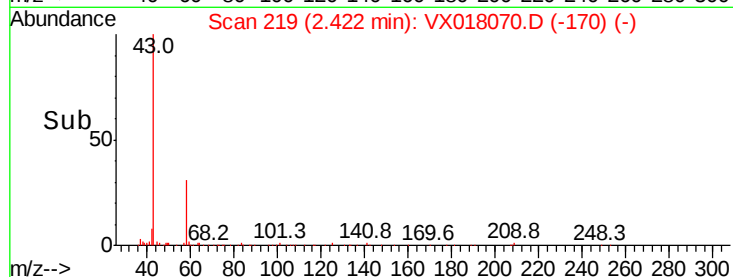
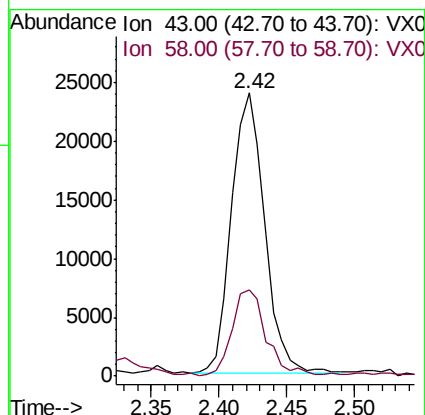
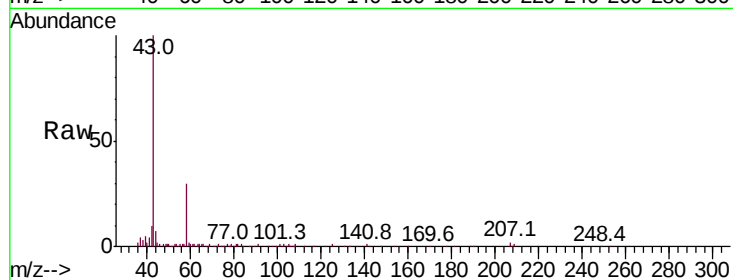
PB131195ZHE#01

Tot Ion: 43 Resp: 40090

Ion Ratio Lower Upper

43 100

58 30.2 25.5 38.3



#17

Carbon Disulfide

Concen: 0.271 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX018070.D

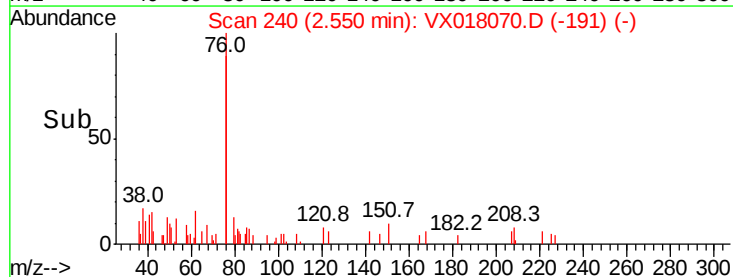
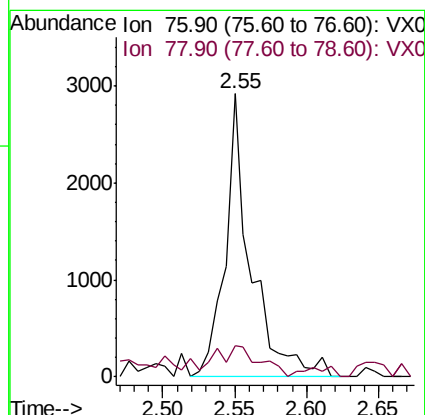
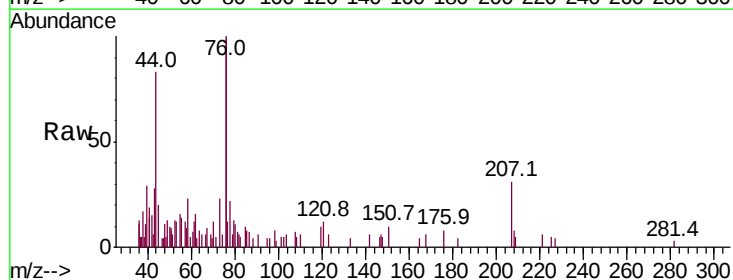
Acq: 26 Aug 2020 12:30

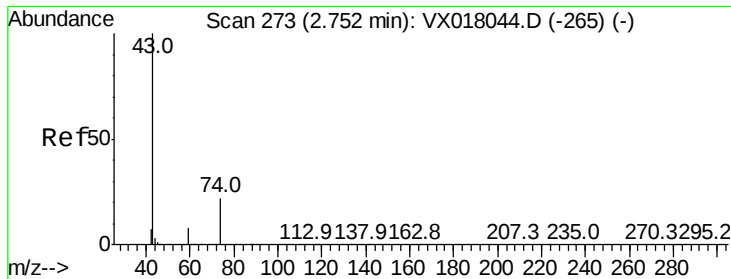
Tgt Ion: 76 Resp: 3638

Ion Ratio Lower Upper

76 100

78 11.2 7.4 11.0#

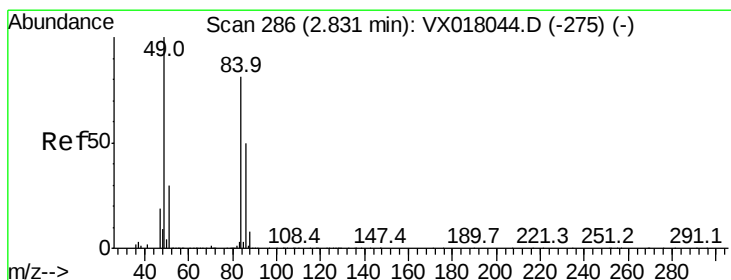
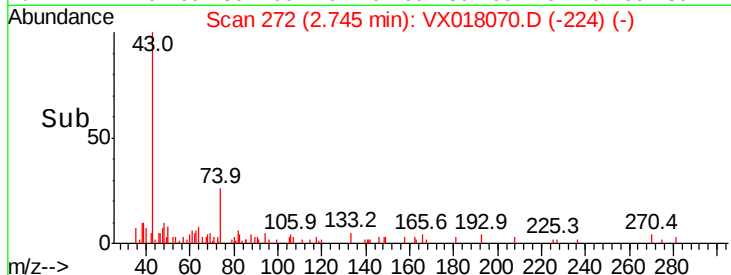
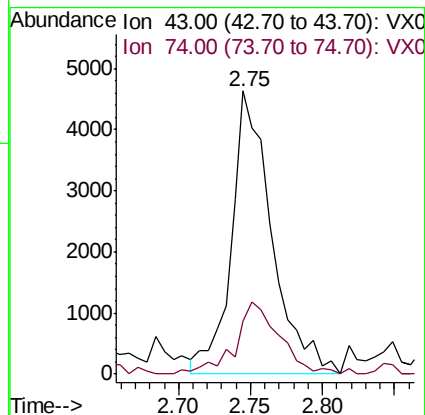
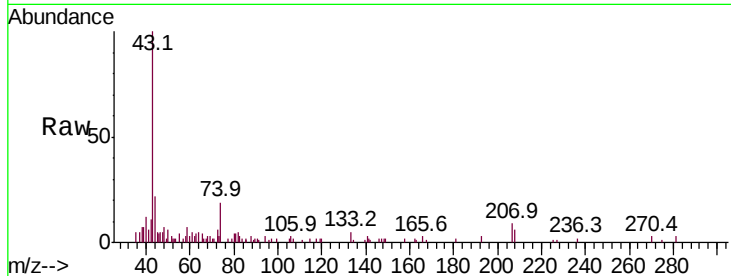




#18
Methvl Acetate
Concen: 1.533 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX018070.D
Acq: 26 Aug 2020 12:30

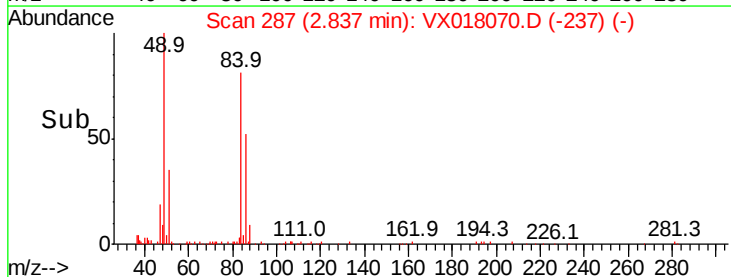
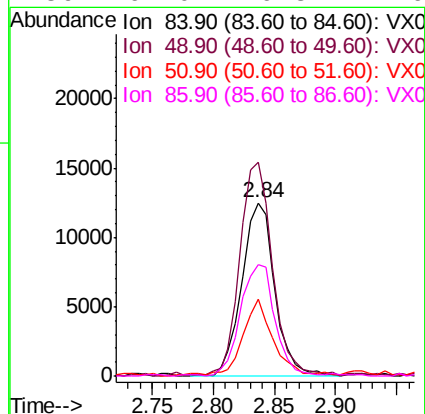
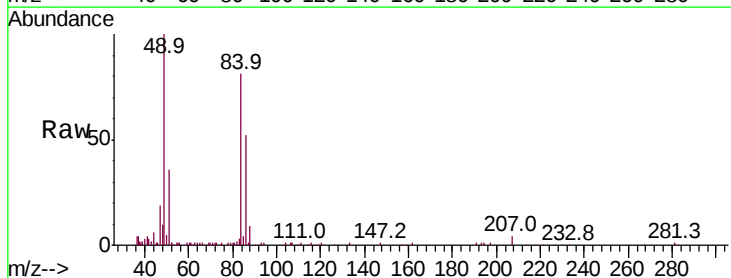
Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#01

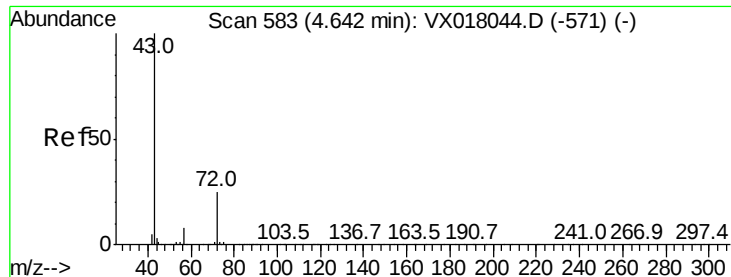
Tot Ion: 43 Resp: 9095
Ion Ratio Lower Upper
43 100
74 27.6 18.2 27.4#



#20
Methylene Chloride
Concen: 3.567 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018070.D
Acq: 26 Aug 2020 12:30

Tgt Ion: 84 Resp: 23388
Ion Ratio Lower Upper
84 100
49 123.1 98.6 148.0
51 43.6 29.6 44.4
86 64.0 49.8 74.6

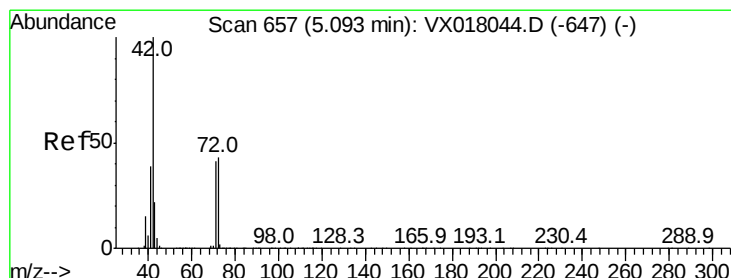
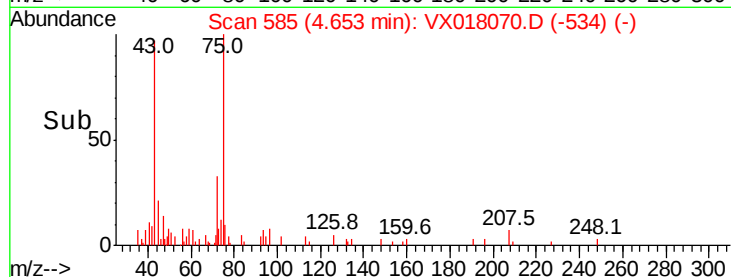
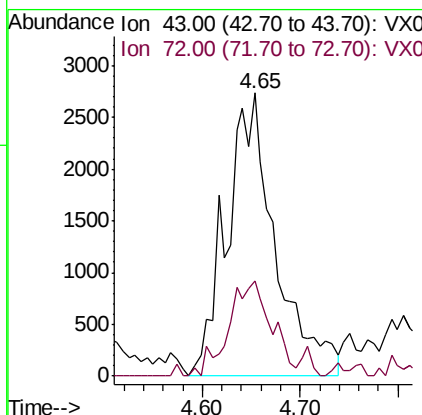
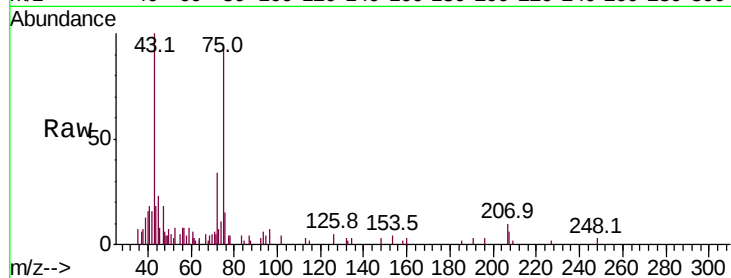




#25
2-Butanone
Concen: 2.352 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX018070.D
Acq: 26 Aug 2020 12:30

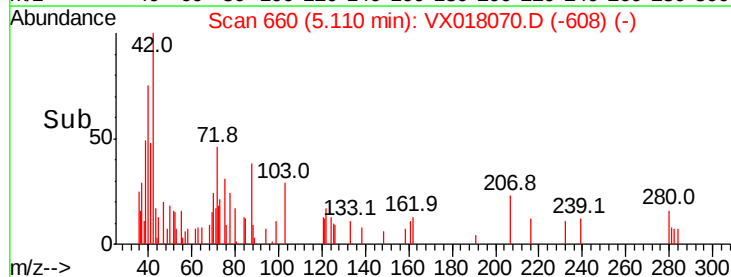
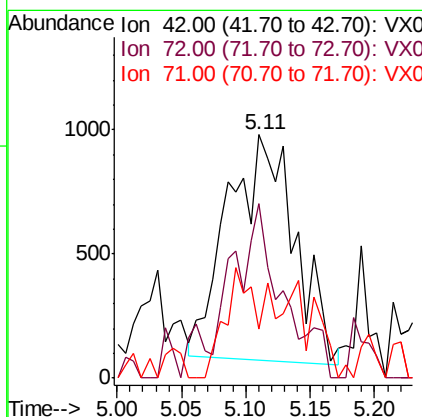
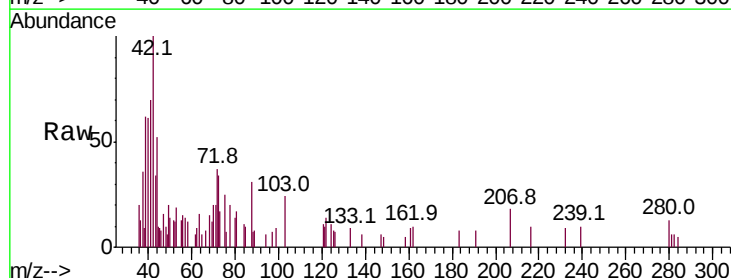
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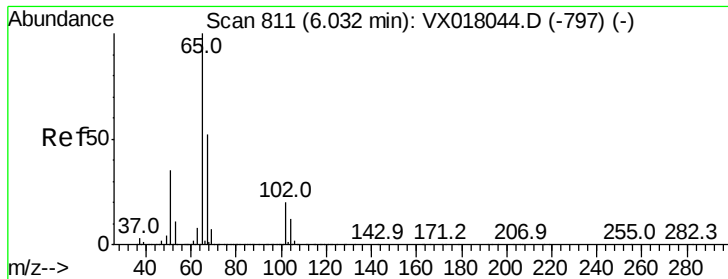
Tot Ion: 43 Resp: 9507
Ion Ratio Lower Upper
43 100
72 30.2 19.8 29.6#



#29
Tetrahydrofuran
Concen: 1.273 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX018070.D
Acq: 26 Aug 2020 12:30

Tgt Ion: 42 Resp: 3274
Ion Ratio Lower Upper
42 100
72 56.0 34.2 51.4#
71 21.4 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 48.432 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

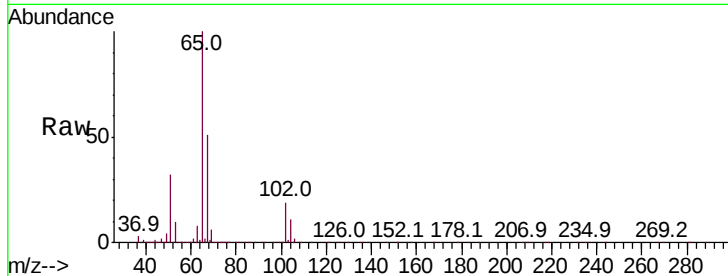
PB131195ZHE#01

Tot Ion: 65 Resp: 305638

Ion Ratio Lower Upper

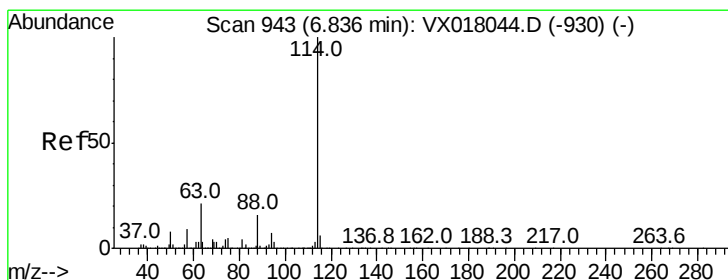
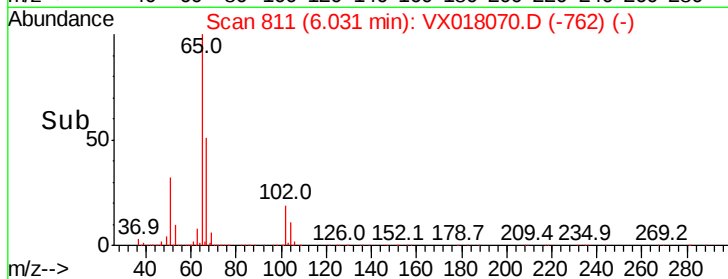
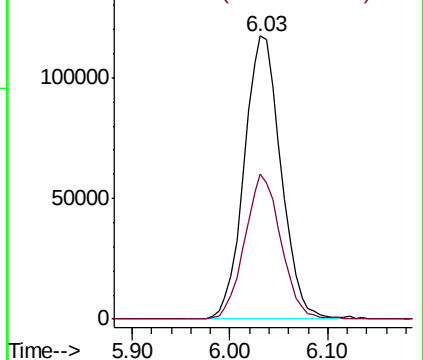
65 100

67 50.7 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

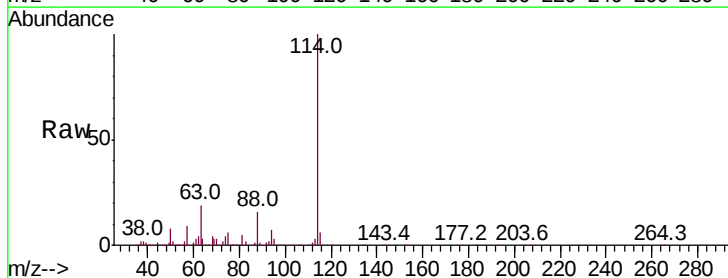
Tgt Ion: 114 Resp: 718244

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

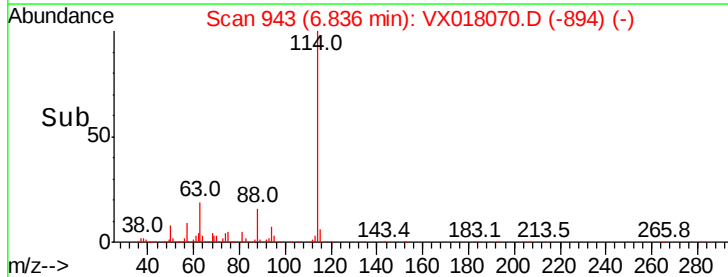
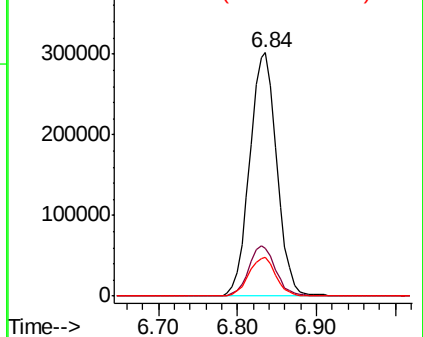
88 16.1 0.0 31.8

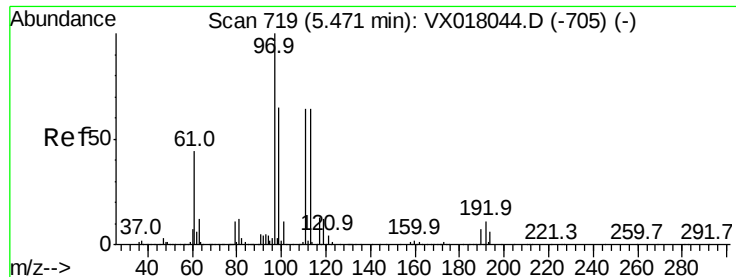


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.439 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#01

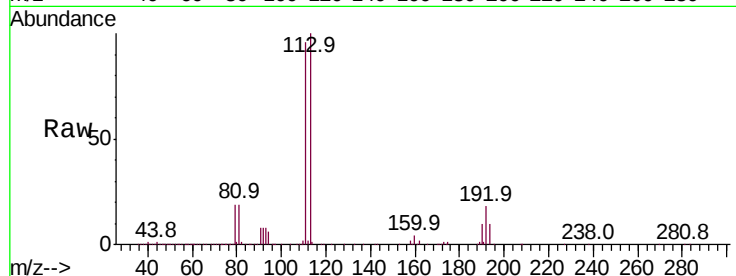
Tot Ion:113 Resp: 241837

Ion Ratio Lower Upper

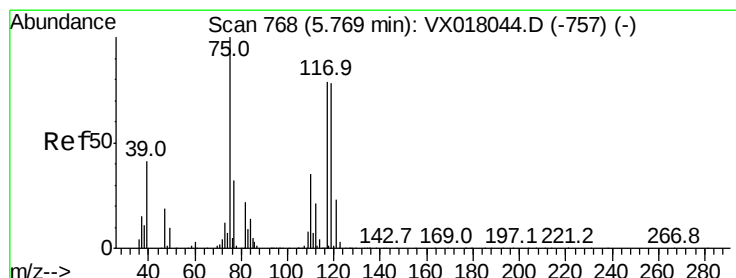
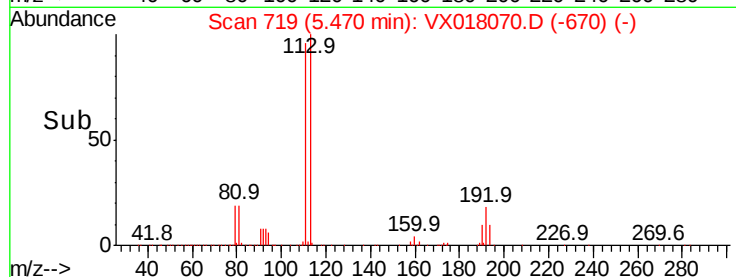
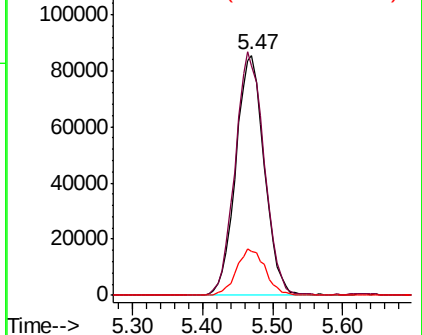
113 100

111 103.6 81.6 122.4

192 19.7 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.191 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

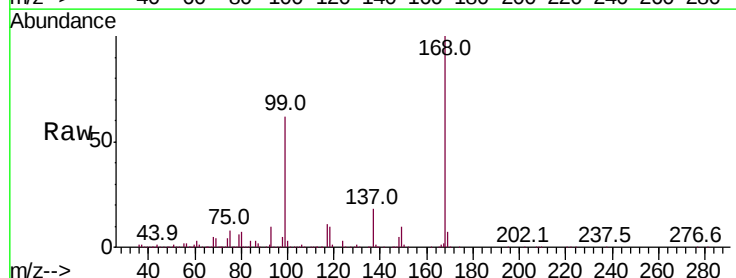
Tgt Ion: 75 Resp: 34387

Ion Ratio Lower Upper

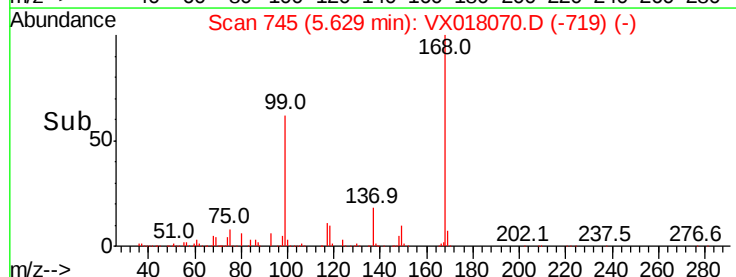
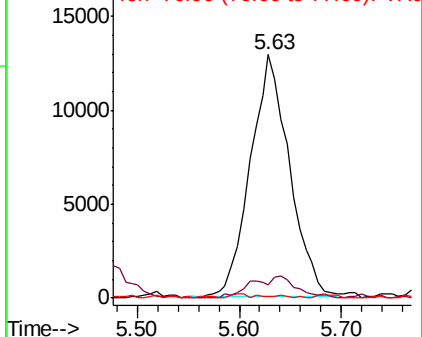
75 100

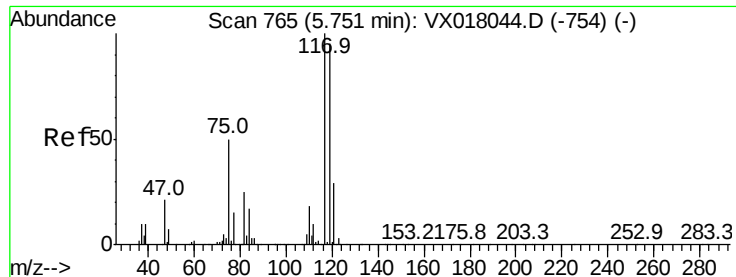
110 5.7 18.0 54.0#

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: 6.094 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#01

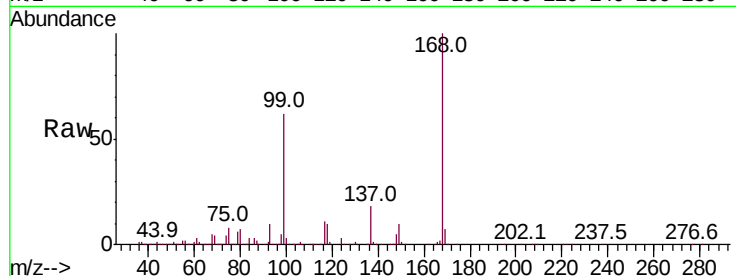
Tot Ion:117 Resp: 45495

Ion Ratio Lower Upper

117 100

119 7.7 75.8 113.6#

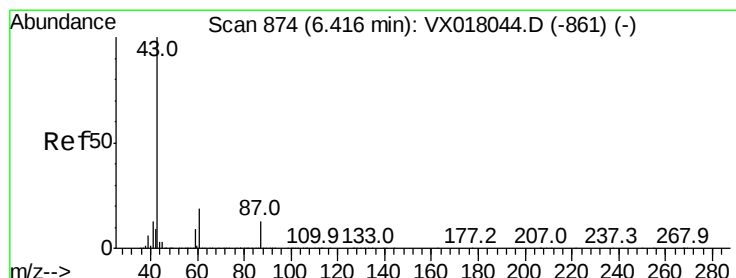
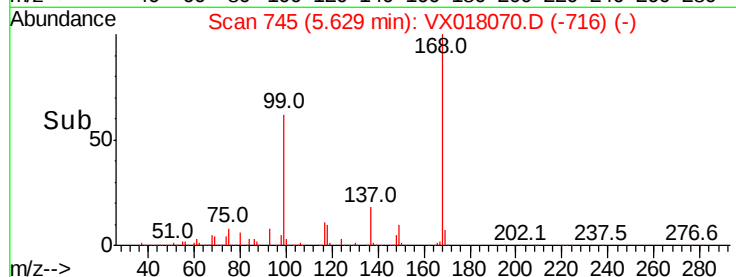
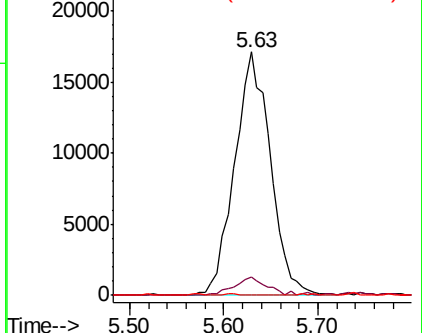
121 0.0 23.4 35.0#



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: 10.467 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

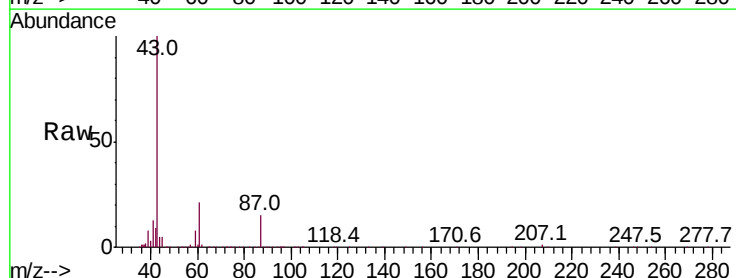
Tgt Ion: 43 Resp: 130079

Ion Ratio Lower Upper

43 100

61 20.3 15.7 23.5

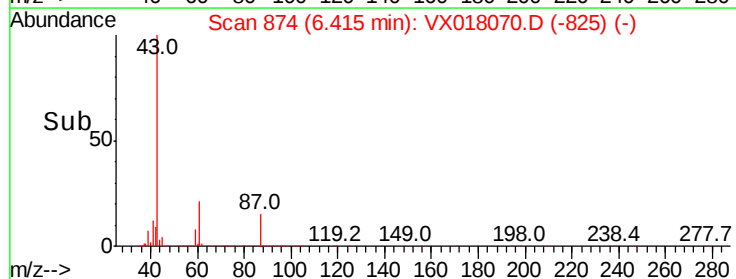
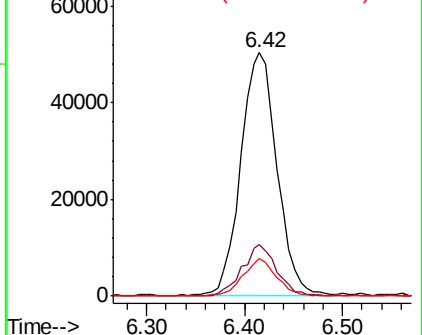
87 14.2 10.3 15.5

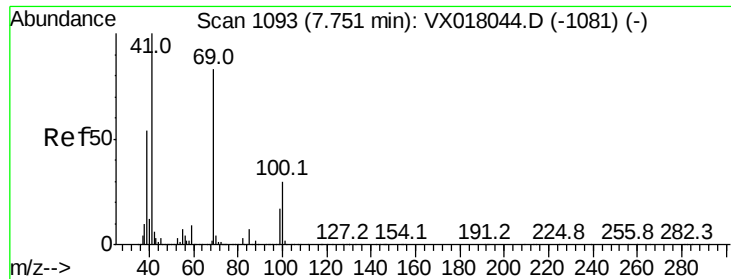


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

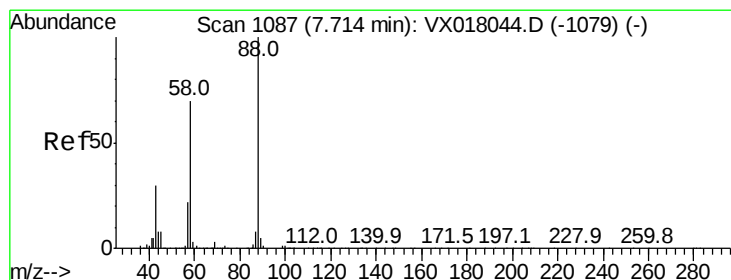
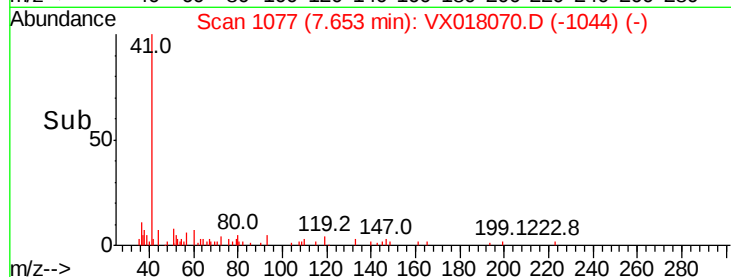
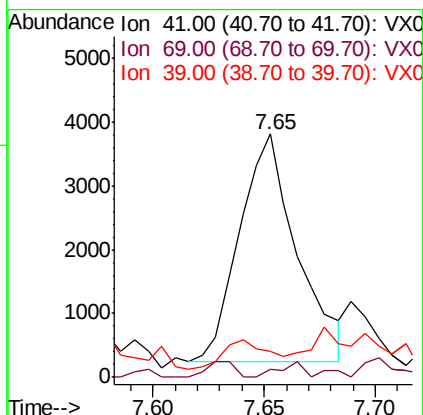
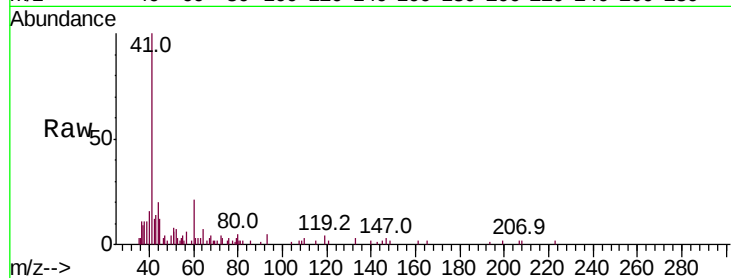




#48
Methyl methacrylate
Concen: 1.031 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.10 min
Lab File: VX018070.D
Acq: 26 Aug 2020 12:30

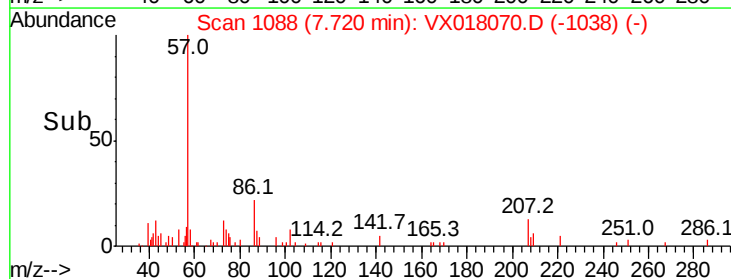
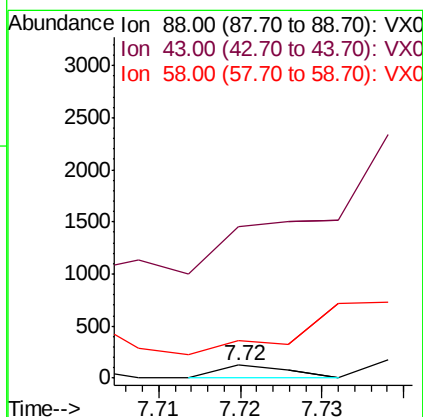
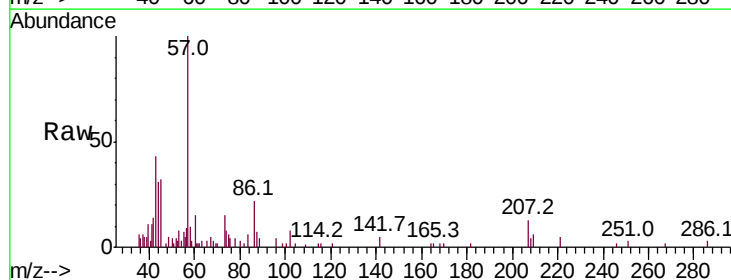
Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#01

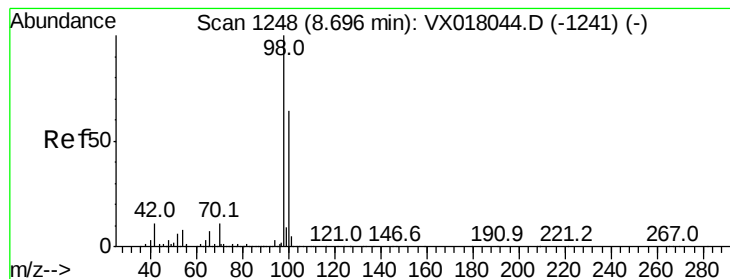
Tot Ion: 41 Resp: 6378
Ion Ratio Lower Upper
41 100
69 3.3 65.5 98.3#
39 0.0 44.5 66.7#



#49
1,4-Dioxane
Concen: 0.651 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX018070.D
Acq: 26 Aug 2020 12:30

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 56.4 84.6#





#50

Toluene-d8

Concen: 46.581 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

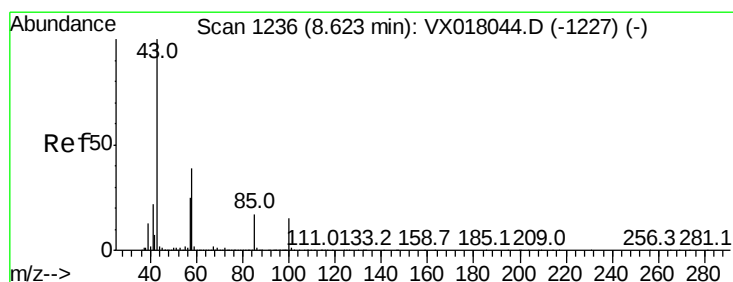
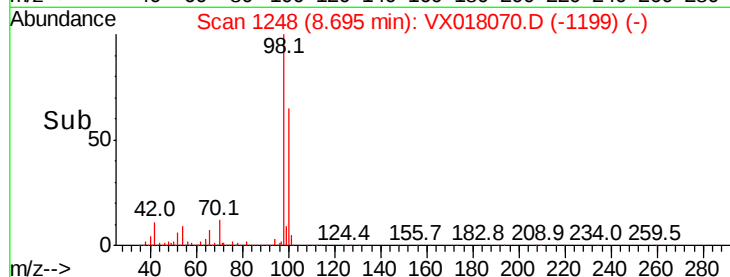
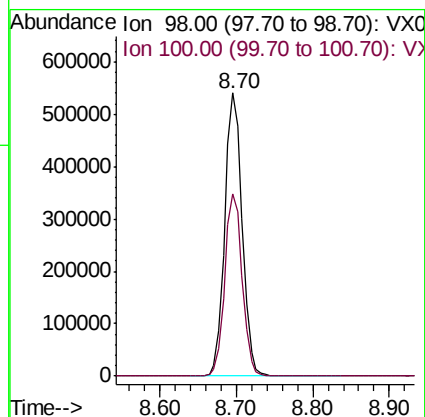
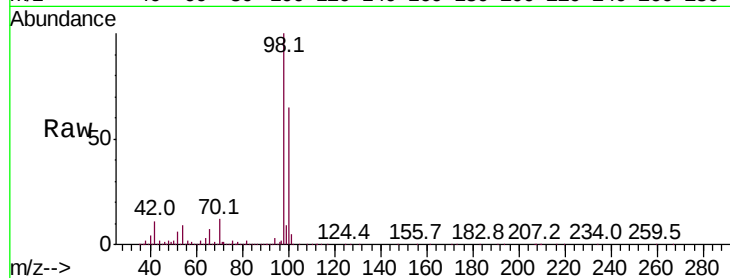
PB131195ZHE#01

Tot Ion: 98 Resp: 848665

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 16.190 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX018070.D

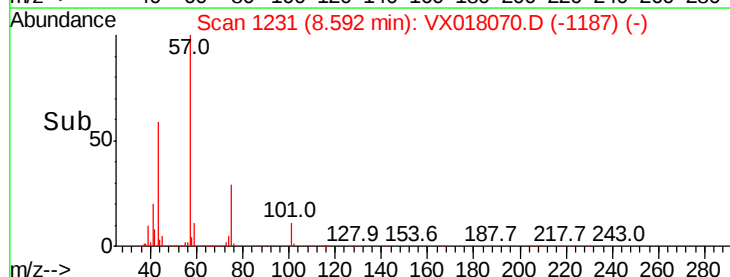
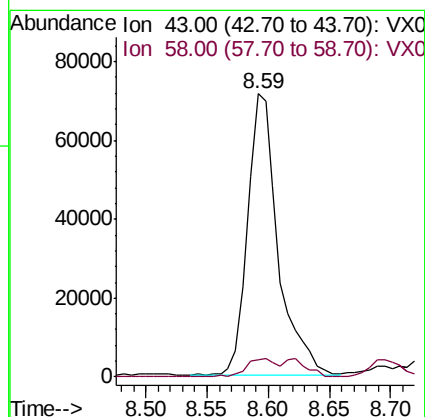
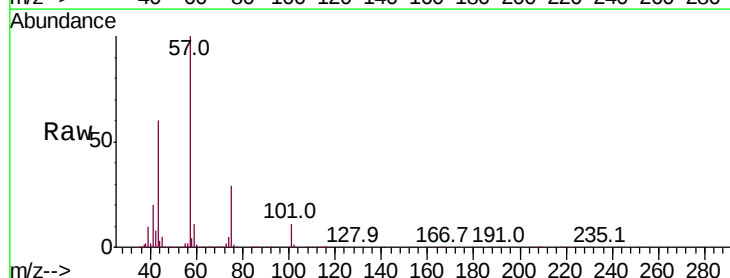
Acq: 26 Aug 2020 12:30

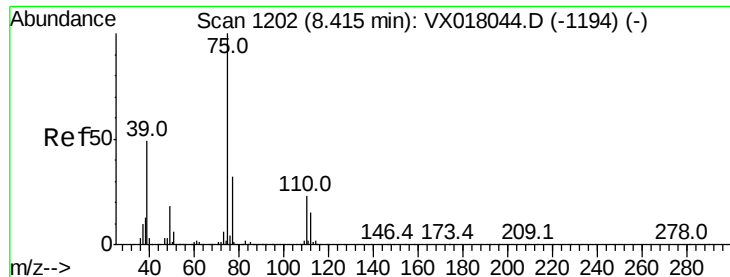
Tgt Ion: 43 Resp: 124281

Ion Ratio Lower Upper

43 100

58 6.6 30.7 46.1#





#54

cis-1,3-Dichloropropene

Concen: 6.158 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#01

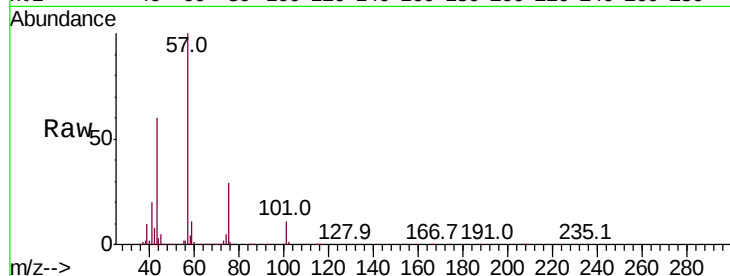
Tot Ion: 75 Resp: 53258

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

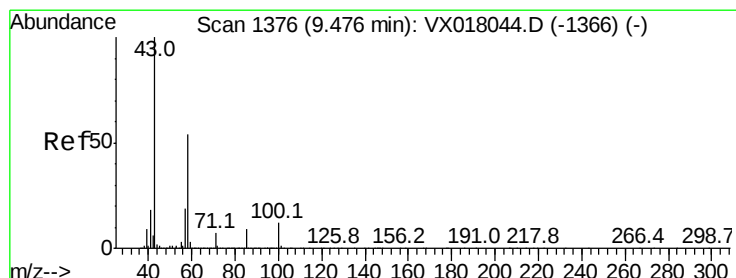
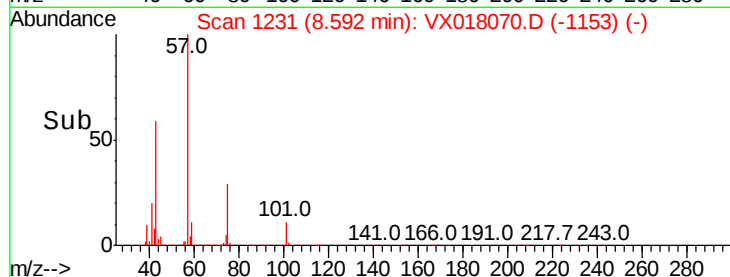
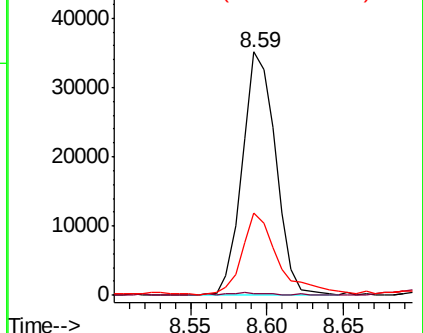
39 33.1 38.8 58.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 24.692 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018070.D

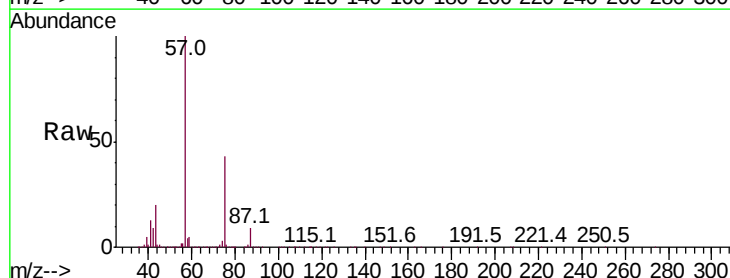
Acq: 26 Aug 2020 12:30

Tgt Ion: 43 Resp: 144130

Ion Ratio Lower Upper

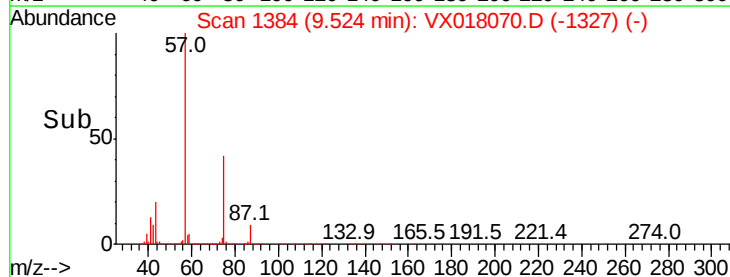
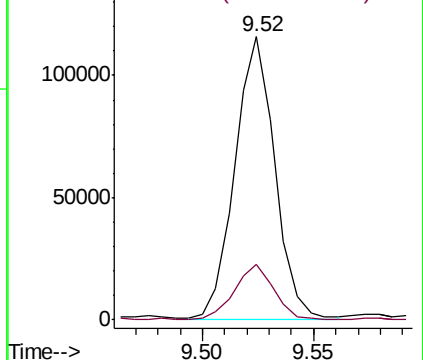
43 100

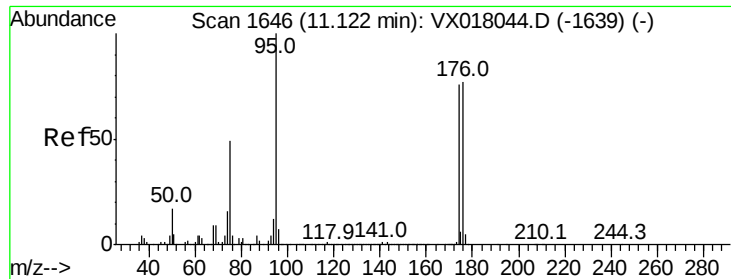
58 19.1 26.6 79.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.471 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#01

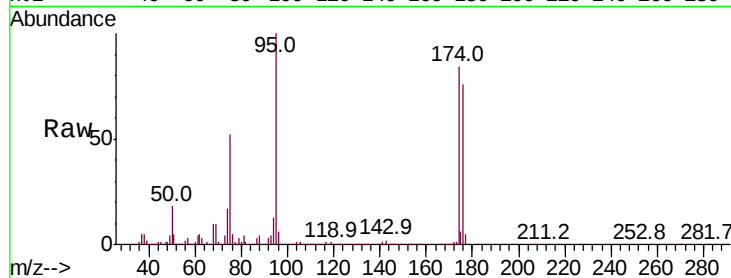
Tot Ion: 95 Resp: 318773

Ion Ratio Lower Upper

95 100

174 83.9 0.0 160.2

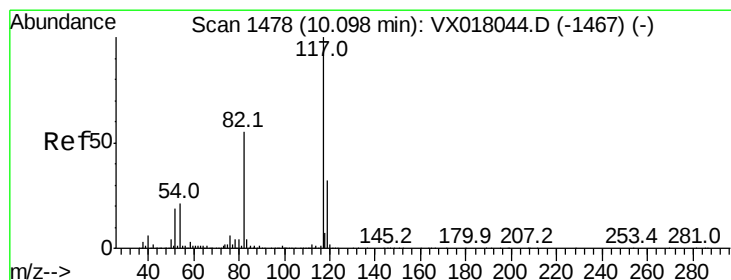
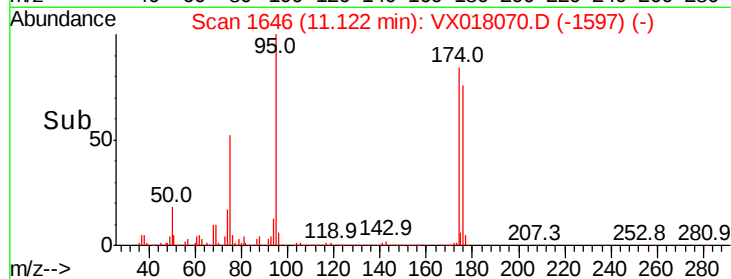
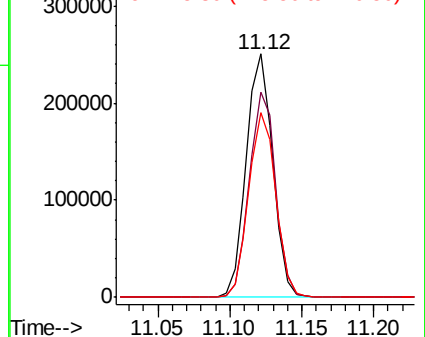
176 77.3 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

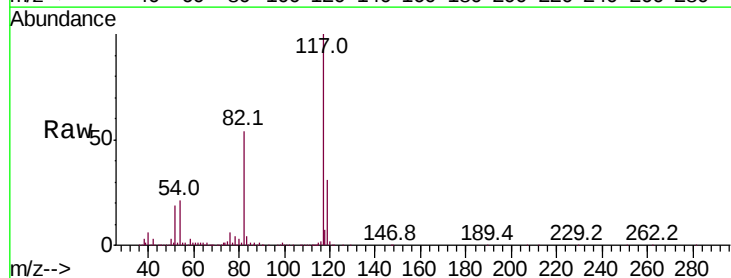
Tgt Ion: 117 Resp: 680335

Ion Ratio Lower Upper

117 100

82 54.1 44.2 66.2

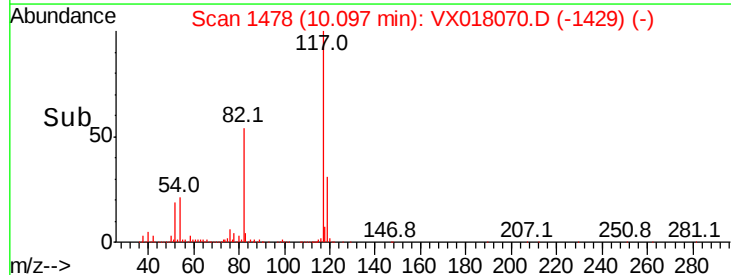
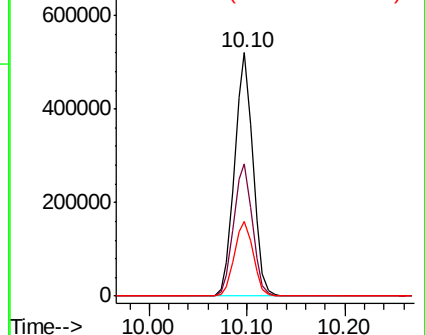
119 30.7 25.7 38.5

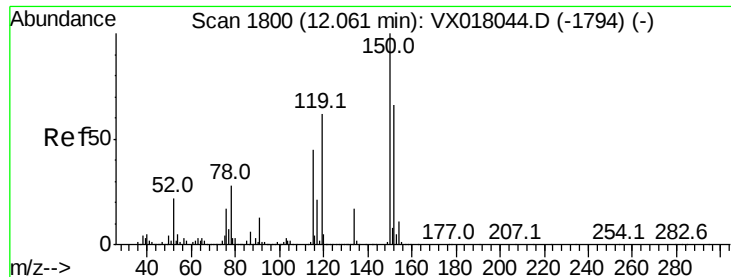


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#01

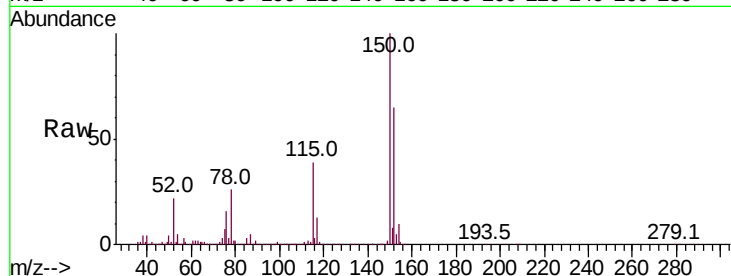
Tot Ion:152 Resp: 324365

Ion Ratio Lower Upper

152 100

115 58.5 41.5 124.5

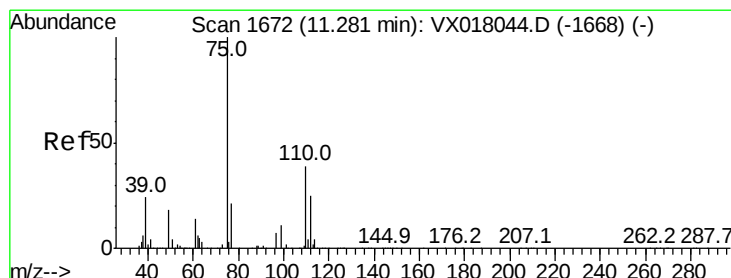
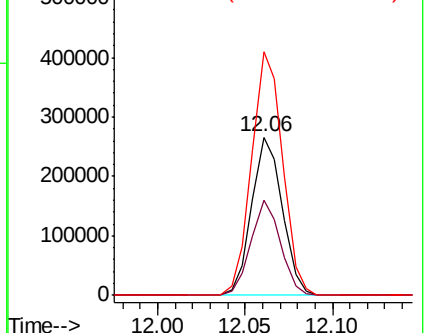
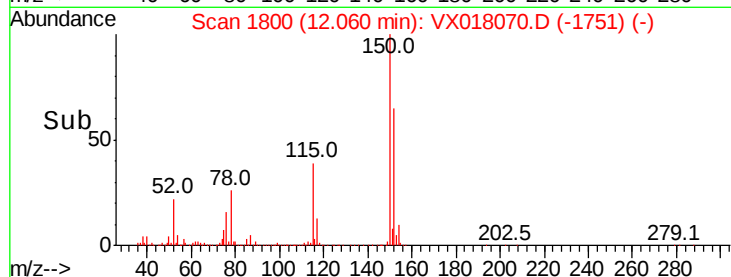
150 155.6 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.821 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018070.D

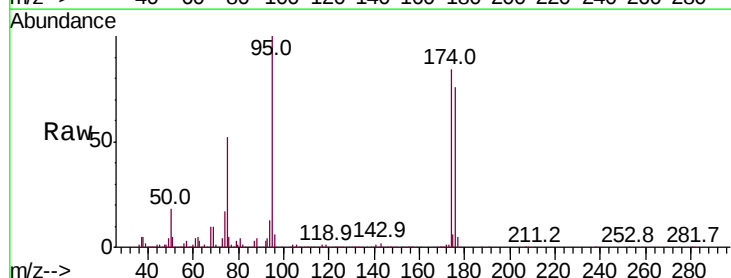
Acq: 26 Aug 2020 12:30

Tgt Ion: 75 Resp: 164667

Ion Ratio Lower Upper

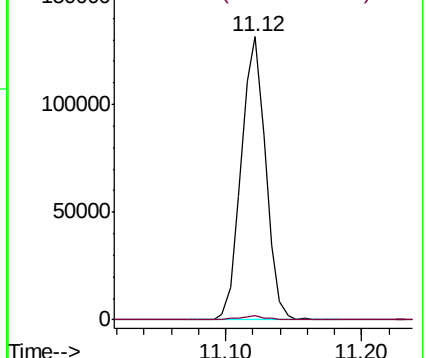
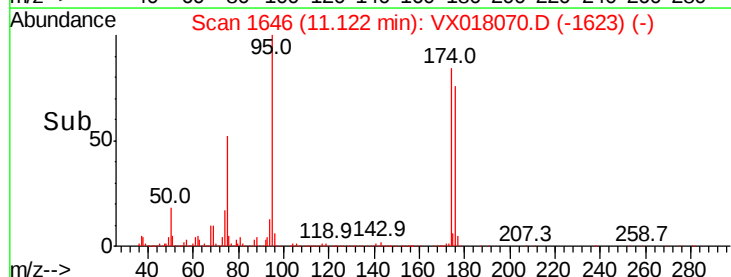
75 100

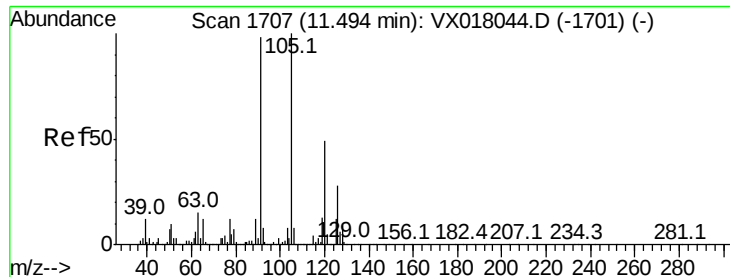
77 1.8 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.384 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

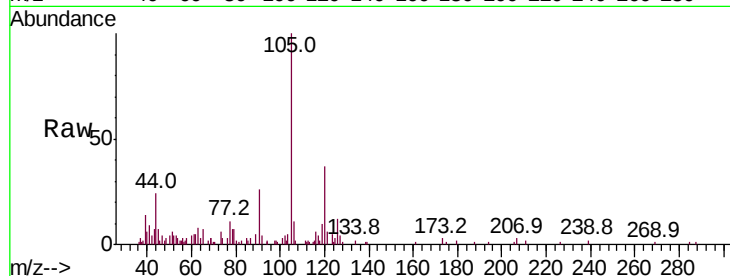
PB131195ZHE#01

Tot Ion:105 Resp: 6753

Ion Ratio Lower Upper

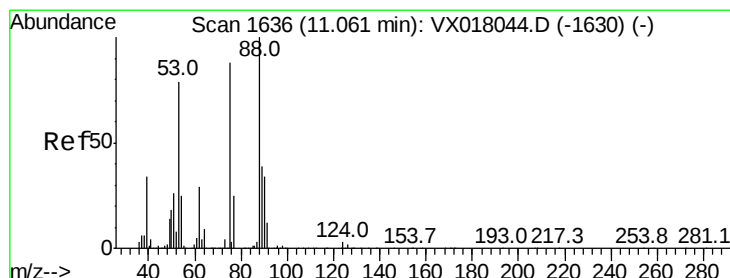
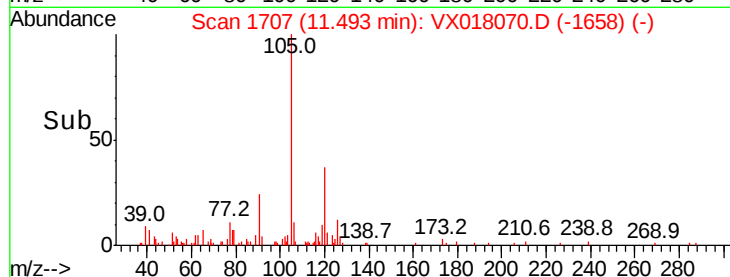
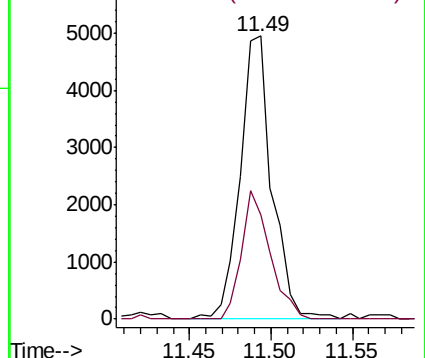
105 100

120 40.5 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 61.635 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

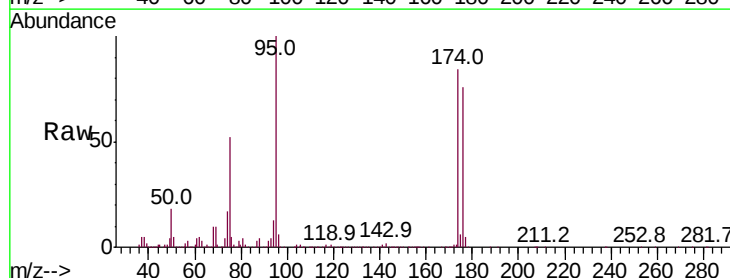
Tgt Ion: 75 Resp: 164667

Ion Ratio Lower Upper

75 100

53 0.4 74.7 112.1#

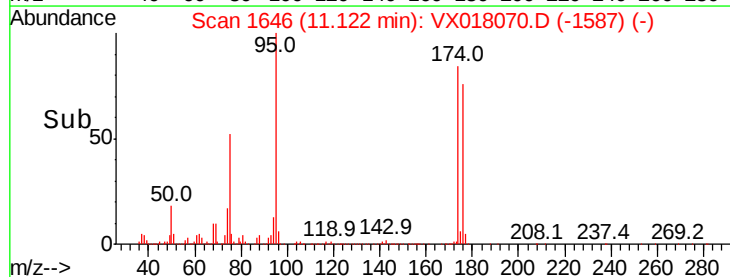
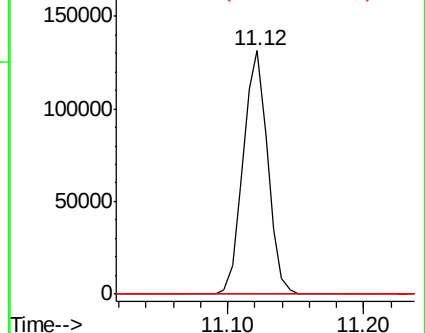
89 0.1 36.6 54.8#

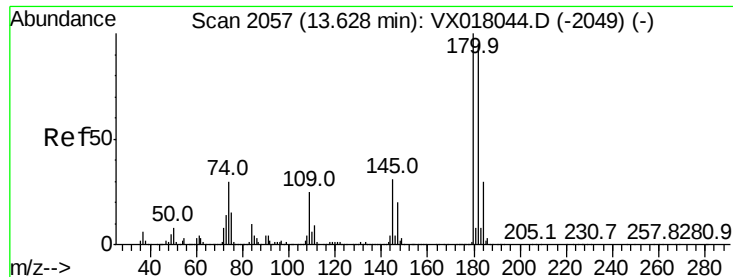


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.250 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#01

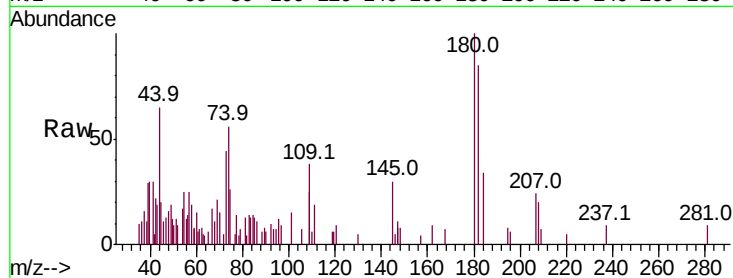
Tot Ion:180 Resp: 1631

Ion Ratio Lower Upper

180 100

182 91.2 47.5 142.6

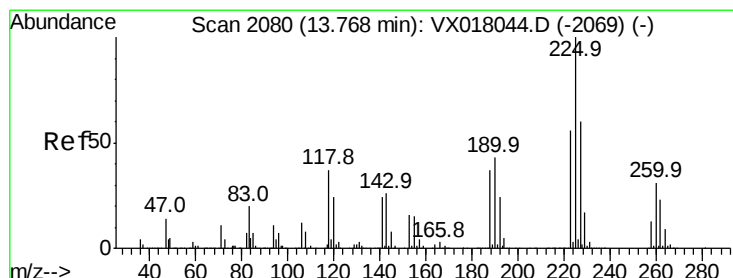
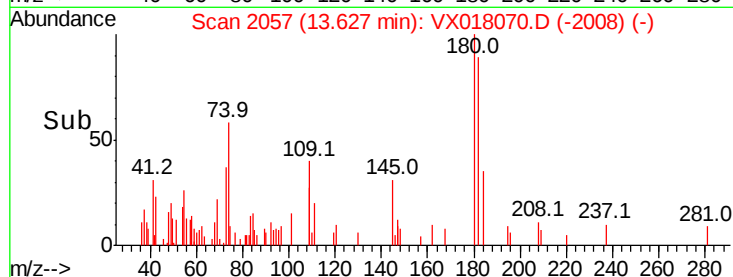
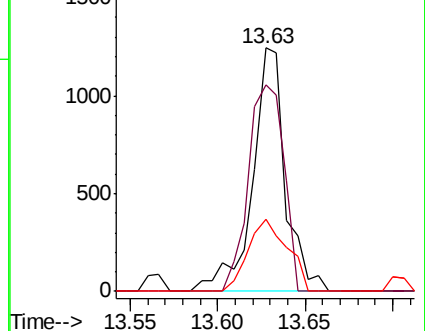
145 35.3 15.7 47.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.264 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX018070.D

Acq: 26 Aug 2020 12:30

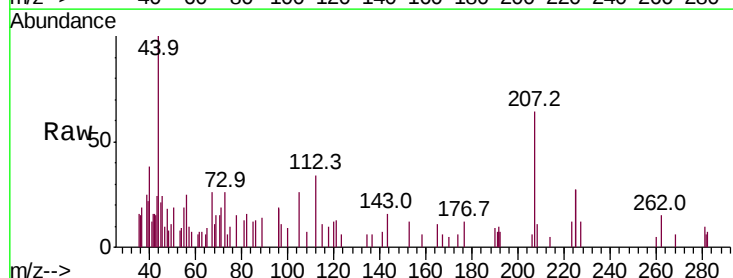
Tgt Ion:225 Resp: 679

Ion Ratio Lower Upper

225 100

223 69.5 30.7 92.1

227 49.6 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

