

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091820\
 Data File : VX018487.D
 Acq On : 18 Sep 2020 13:06
 Operator : JC/SP
 Sample : L4050-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 200916001-02-TRIP-BLANK

Quant Time: Sep 19 01:52:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	71402	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	366378	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	334971	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	176794	31.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.60%
60) 4-Bromofluorobenzene	11.12	95	156349	26.93	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.77%
63) Toluene-d8	8.70	98	428592	29.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.77%

Target Compounds

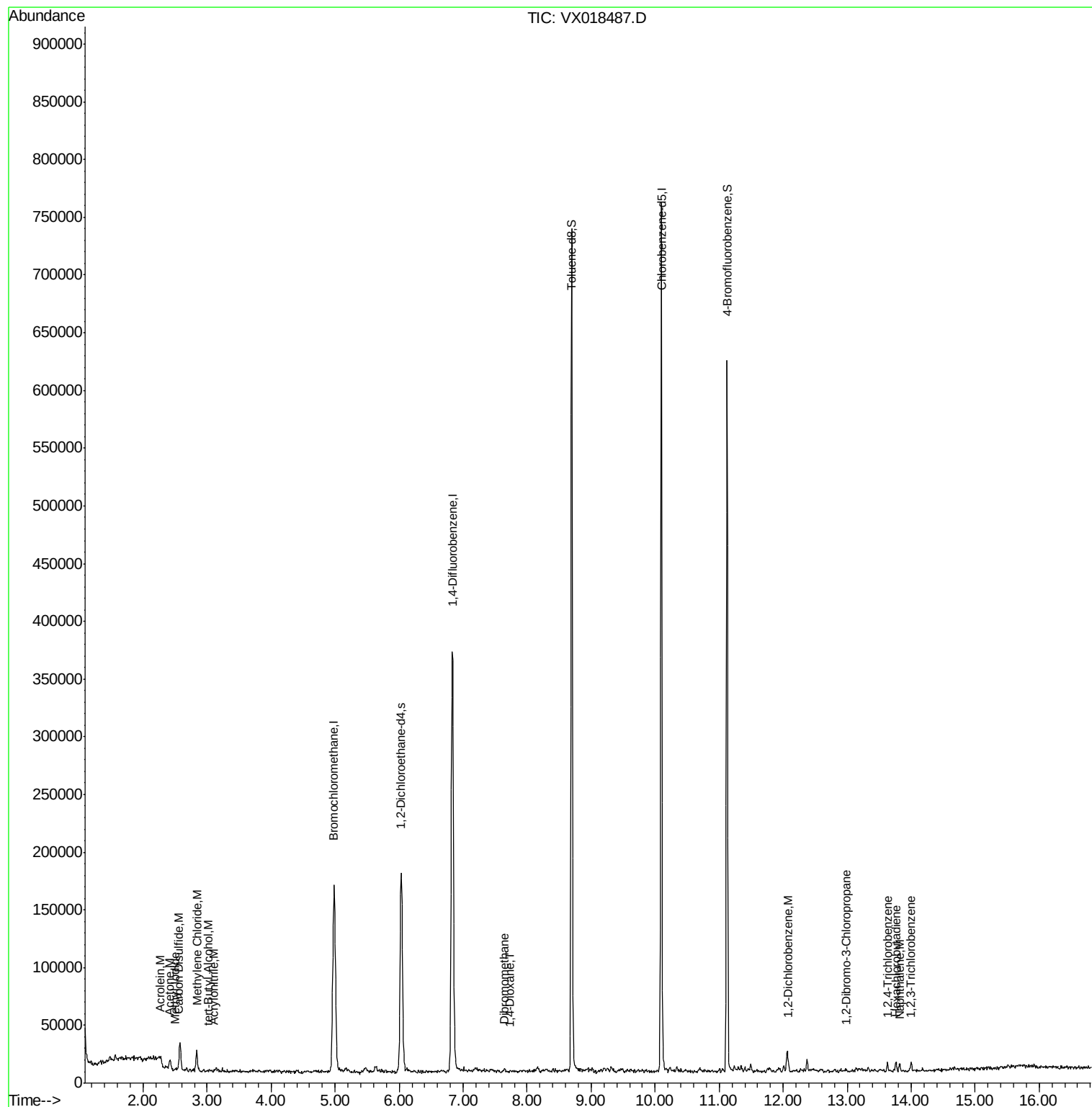
					Ovalue
11) Methyl Iodide	2.50	142	1084	7.755 ug/l #	75
13) Acrolein	2.27	56	502	1.316 ug/l	96
14) Acrylonitrile	3.11	53	462	0.216 ug/l #	64
15) Acetone	2.42	58	3240	5.562 ug/l	91
16) Carbon Disulfide	2.56	76	3324	0.318 ug/l	96
18) Methylene Chloride	2.84	84	7349	1.743 ug/l #	87
23) tert-Butyl Alcohol	3.02	59	356	0.383 ug/l #	99
40) Dibromomethane	7.65	93	776	0.251 ug/l	34
45) 1,4-Dioxane	7.73	88	69	0.842 ug/l #	1
87) 1,2-Dichlorobenzene	12.09	146	1859	0.217 ug/l	83
88) 1,2-Dibromo-3-Chloropropan	12.99	75	314	0.201 ug/l #	67
89) 1,2,4-Trichlorobenzene	13.63	180	1765	0.304 ug/l	87
90) Hexachlorobutadiene	13.77	225	1174	0.478 ug/l	91
91) Naphthalene	13.82	128	4026	0.222 ug/l #	89
92) 1,2,3-Trichlorobenzene	14.01	180	1622	0.282 ug/l	95

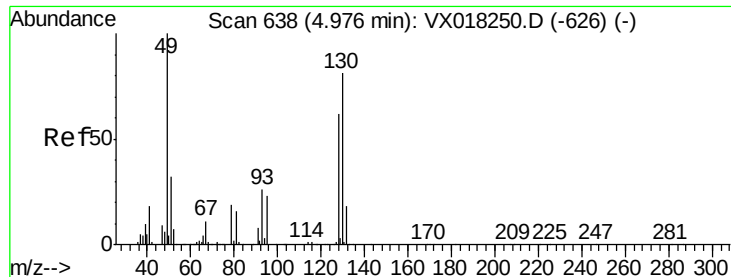
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091820\
Data File : VX018487.D
Acq On : 18 Sep 2020 13:06
Operator : JC/SP
Sample : L4050-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
200916001-02-TRIP-BLANK

Quant Time: Sep 19 01:52:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 04 12:13:41 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

200916001-02-TRIP-BLANK

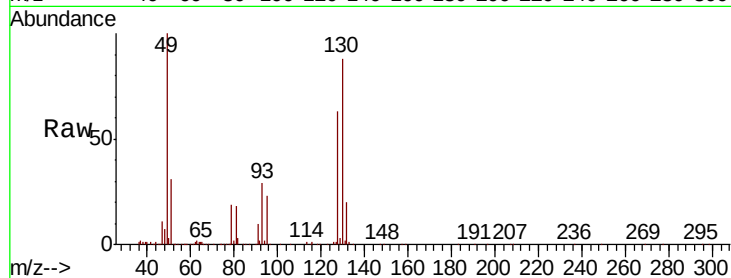
Tot Ion:128 Resp: 71402

Ion Ratio Lower Upper

128 100

49 153.5 0.0 392.0

130 126.5 0.0 320.2

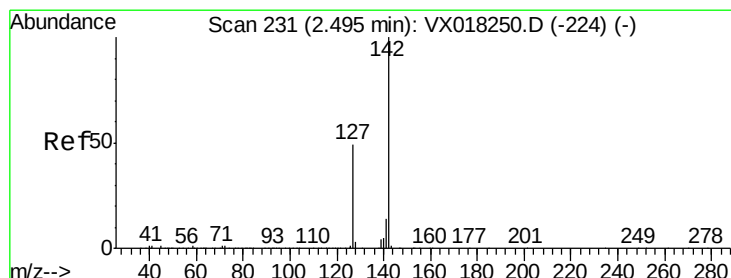
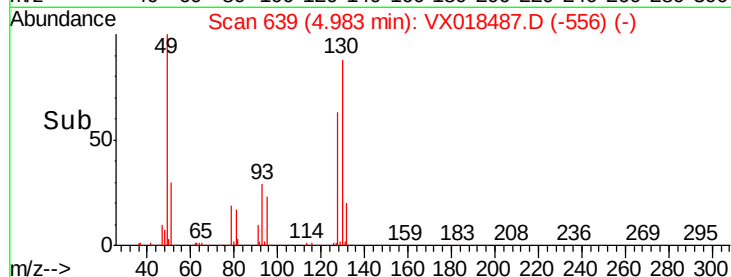
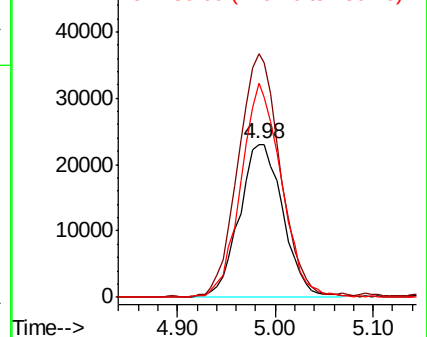


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#11

Methyl Iodide

Concen: 7.755 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

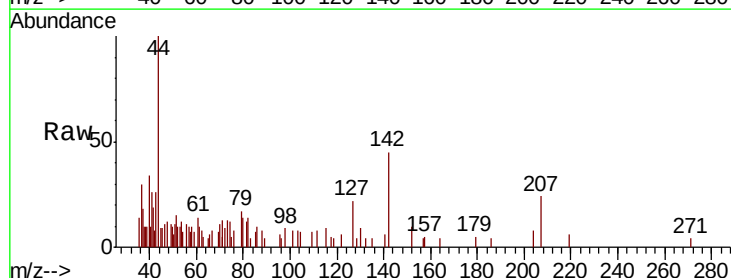
Tgt Ion:142 Resp: 1084

Ion Ratio Lower Upper

142 100

127 34.3 24.6 74.0

141 0.0 7.0 21.0#

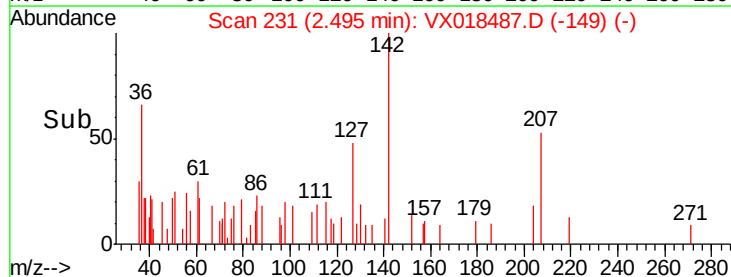
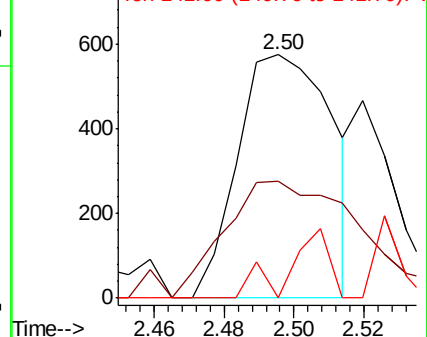


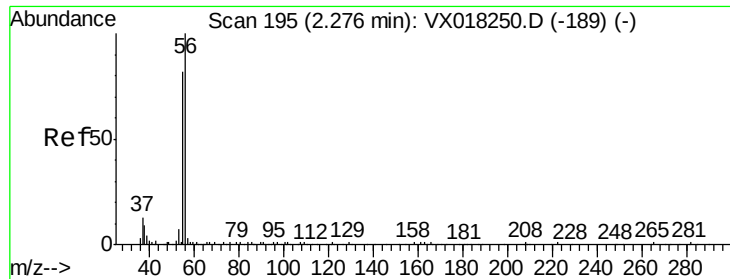
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 1.316 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

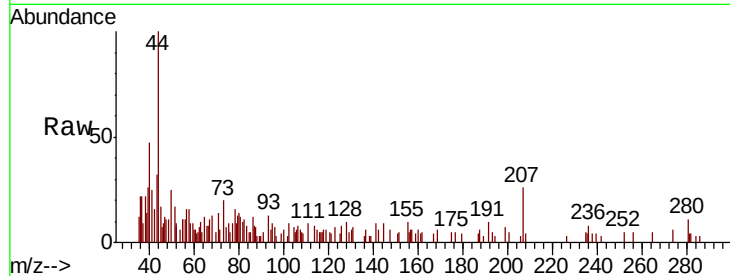
200916001-02-TRIP-BLANK

Tot Ion: 56 Resp: 502

Ion Ratio Lower Upper

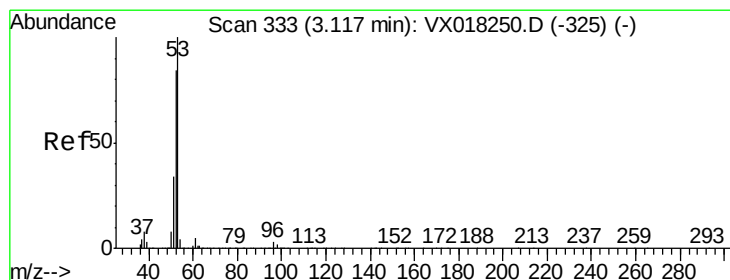
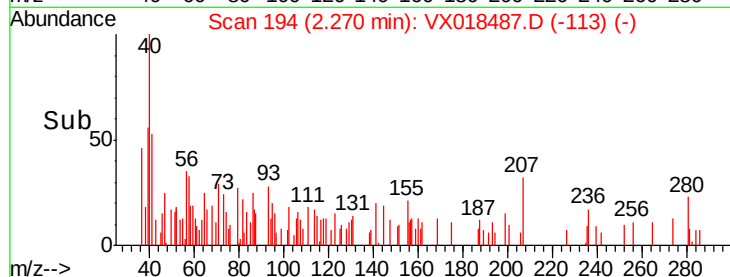
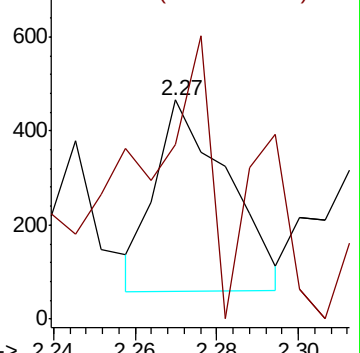
56 100

55 70.9 59.7 89.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Acrylonitrile

Concen: 0.216 ug/l

RT: 3.11 min Scan# 331

Delta R.T. -0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

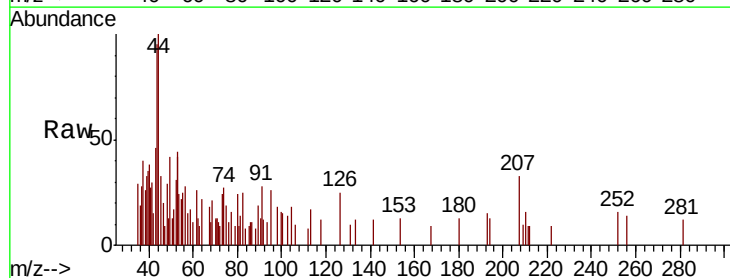
Tgt Ion: 53 Resp: 462

Ion Ratio Lower Upper

53 100

52 61.9 41.9 125.7

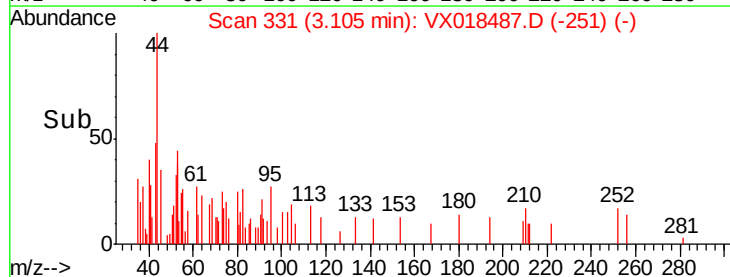
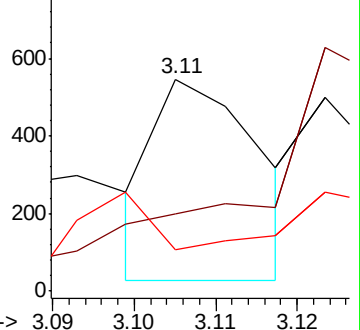
51 0.0 18.3 54.8#

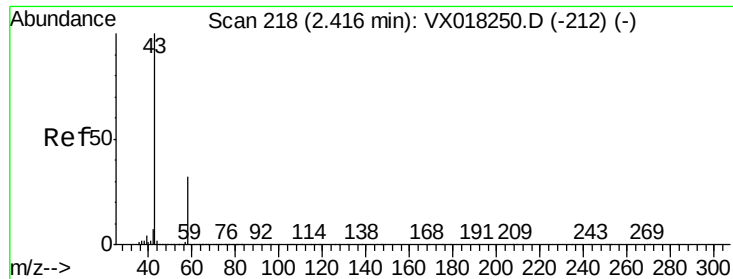


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 5.562 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

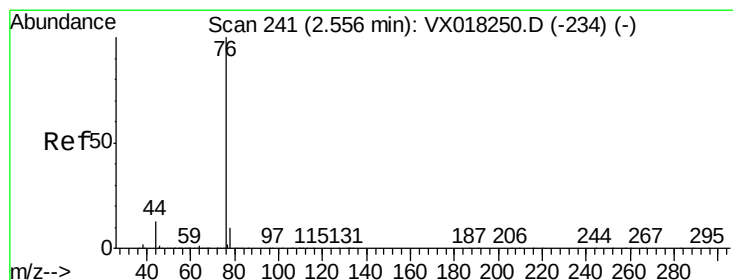
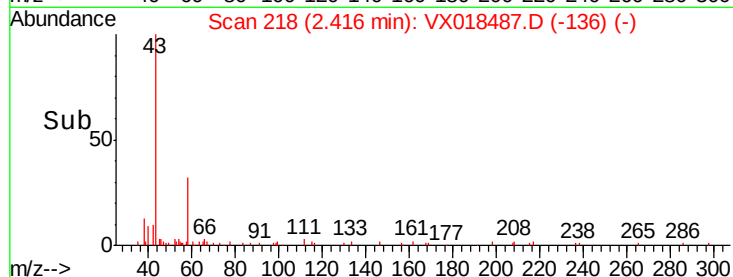
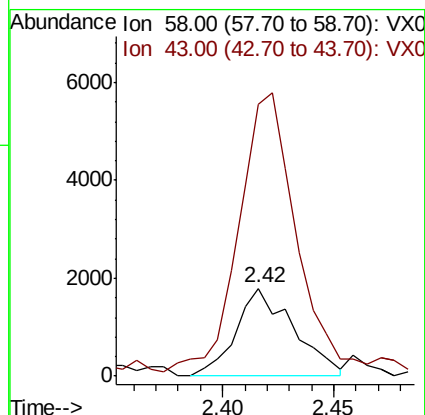
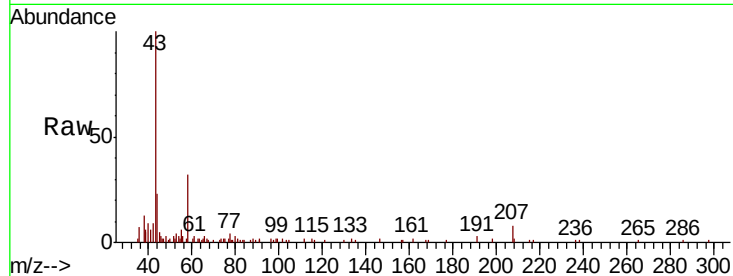
200916001-02-TRIP-BLANK

Tot Ion: 58 Resp: 3240

Ion Ratio Lower Upper

58 100

43 291.6 248.2 372.2



#16

Carbon Disulfide

Concen: 0.318 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VX018487.D

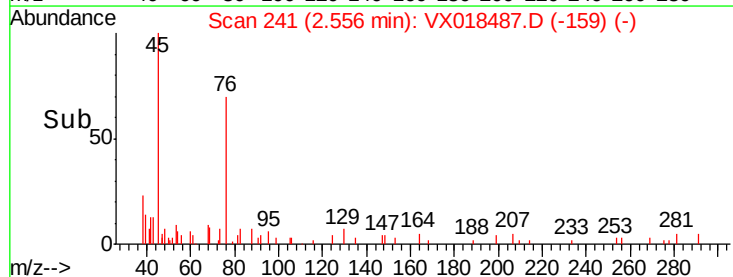
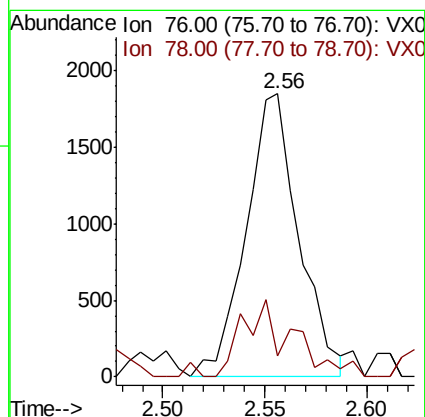
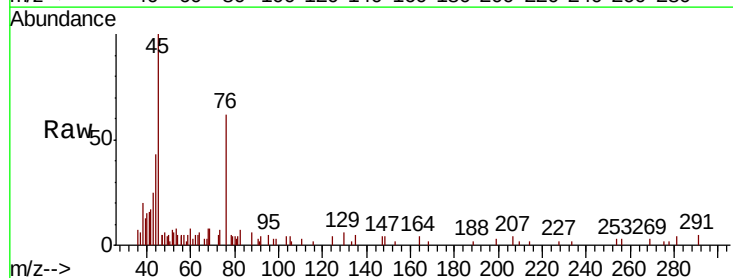
Acq: 18 Sep 2020 13:06

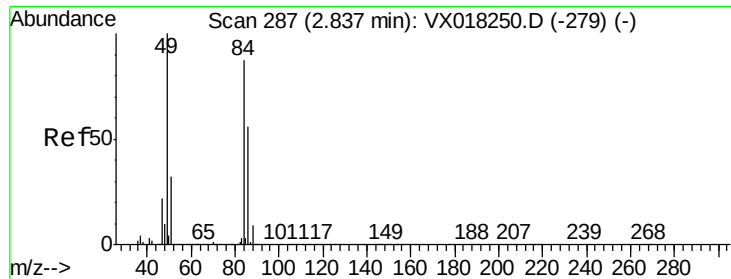
Tgt Ion: 76 Resp: 3324

Ion Ratio Lower Upper

76 100

78 11.1 7.8 11.6

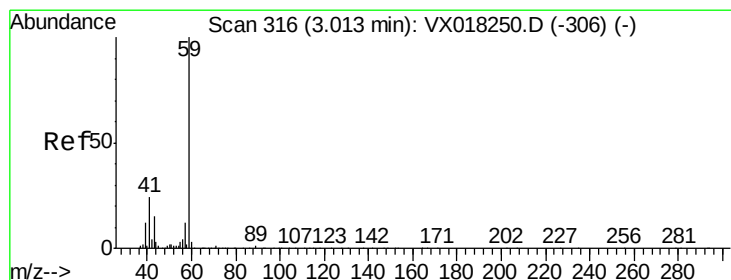
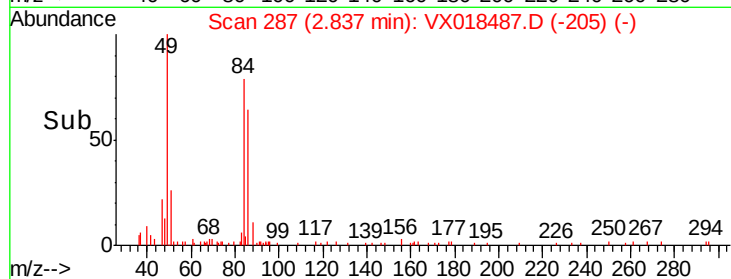
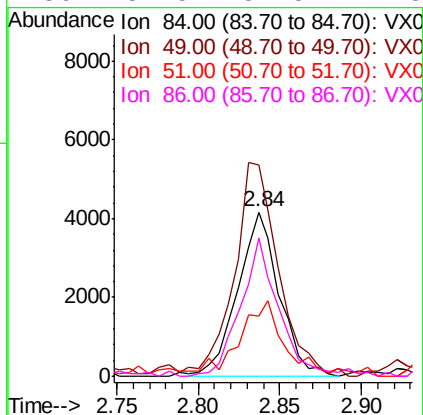
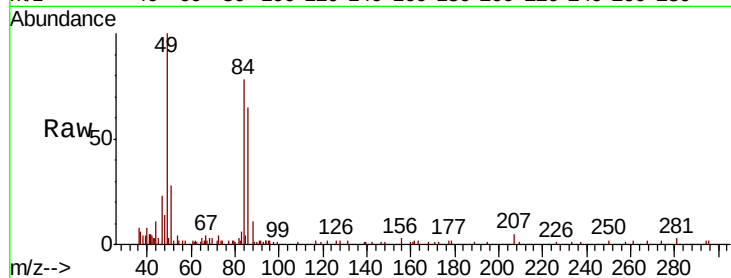




#18
Methylene Chloride
Concen: 1.743 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018487.D
Acq: 18 Sep 2020 13:06

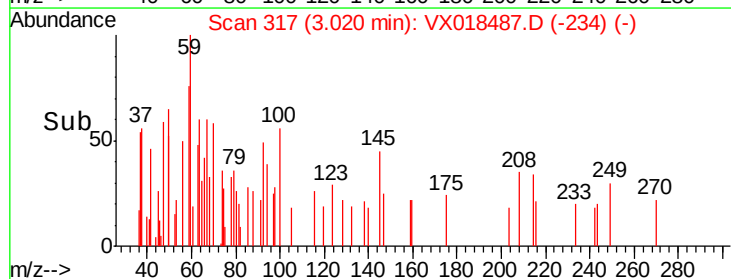
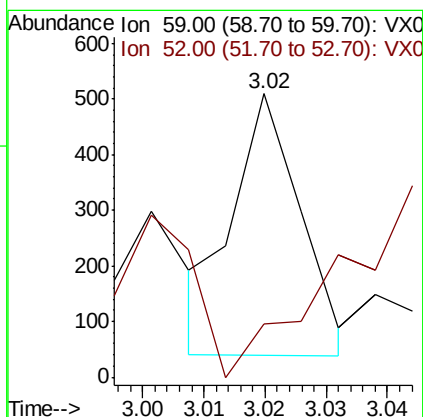
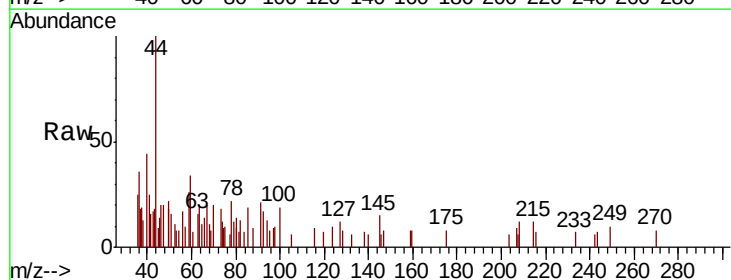
Instrument :
MSVOA_X
ClientSampleId :
200916001-02-TRIP-BLANK

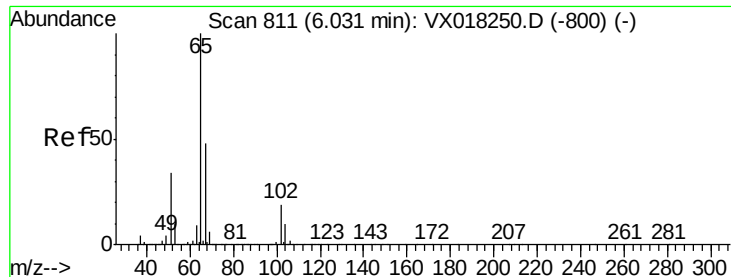
Tot Ion: 84 Resp: 7349
Ion Ratio Lower Upper
84 100
49 124.5 91.6 137.4
51 33.5 29.4 44.0
86 82.5 51.5 77.3#



#23
tert-Butyl Alcohol
Concen: 0.383 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX018487.D
Acq: 18 Sep 2020 13:06

Tgt Ion: 59 Resp: 356
Ion Ratio Lower Upper
59 100
52 0.0 0.4 0.6#





#27

1,2-Dichloroethane-d4

Concen: 31.384 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

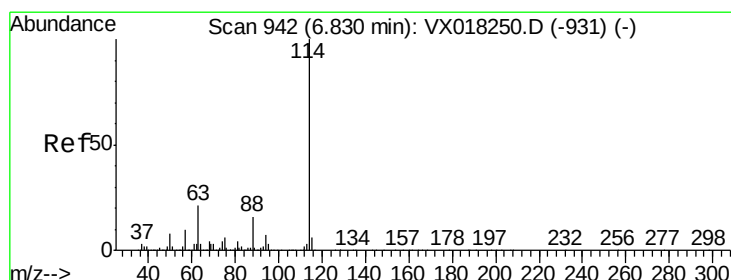
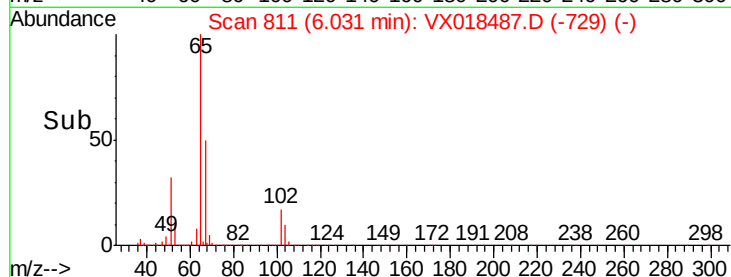
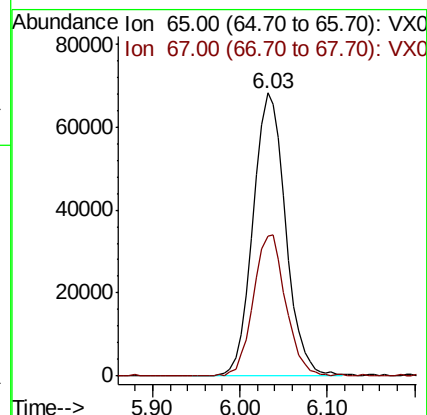
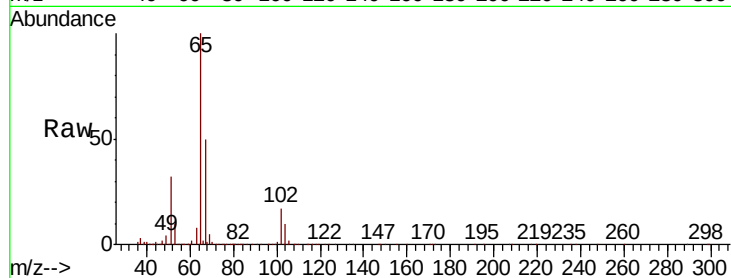
200916001-02-TRIP-BLANK

Tot Ion: 65 Resp: 176794

Ion Ratio Lower Upper

65 100

67 49.2 39.9 59.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

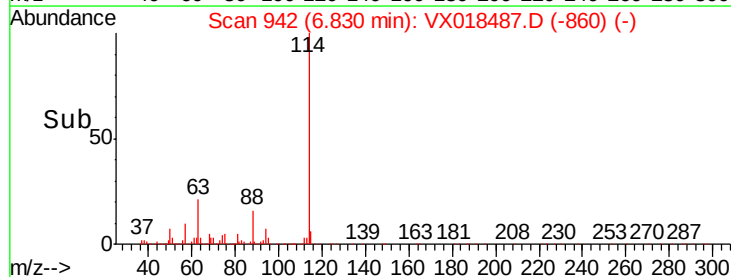
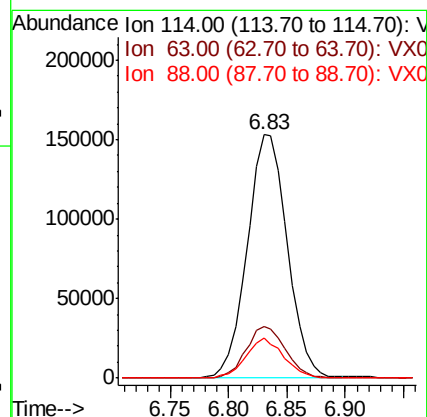
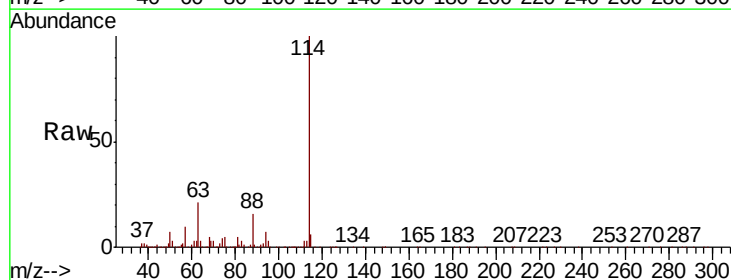
Tgt Ion: 114 Resp: 366378

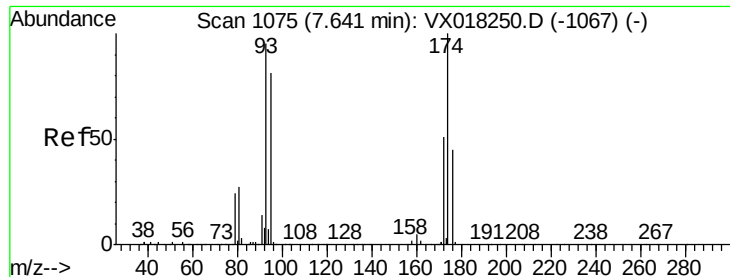
Ion Ratio Lower Upper

114 100

63 21.2 16.7 25.1

88 15.3 12.6 18.8





#40

Dibromomethane

Concen: 0.251 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

200916001-02-TRIP-BLANK

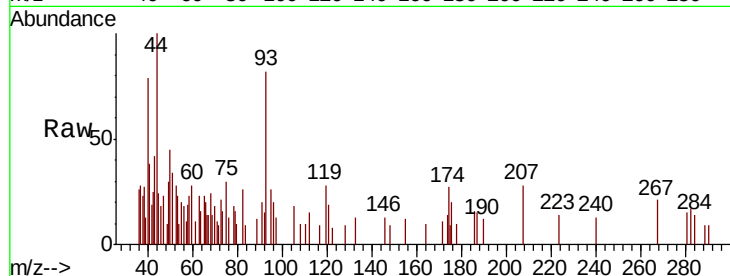
Tot Ion: 93 Resp: 776

Ion Ratio Lower Upper

93 100

95 37.8 0.0 167.0

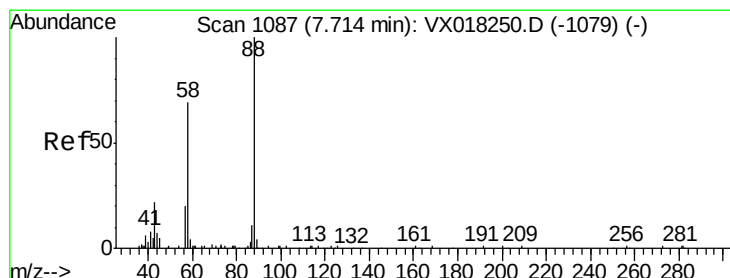
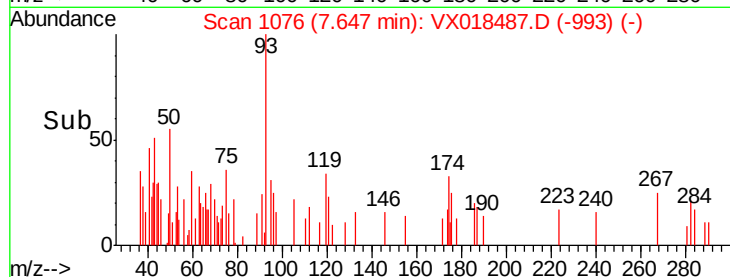
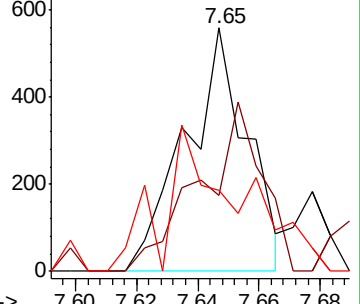
174 22.4 0.0 202.0



Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V



#45

1,4-Dioxane

Concen: 0.842 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

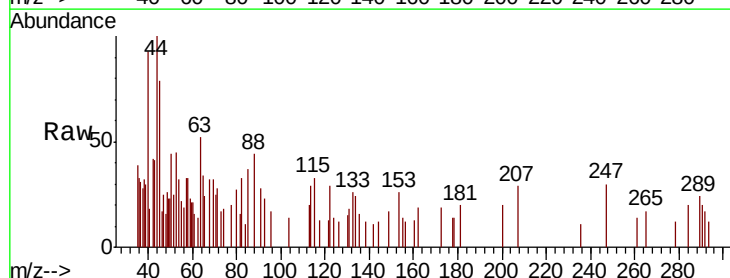
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 218.8 13.6 20.4#

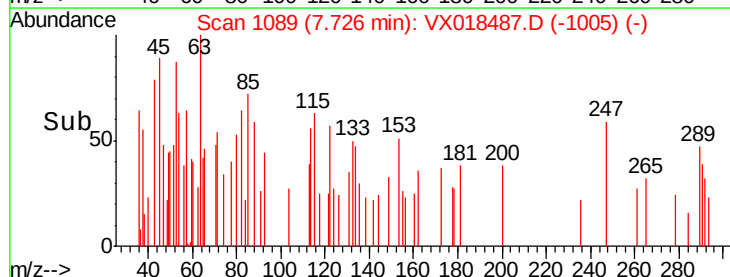
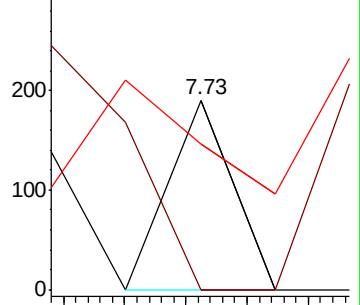
58 294.2 58.2 87.4#

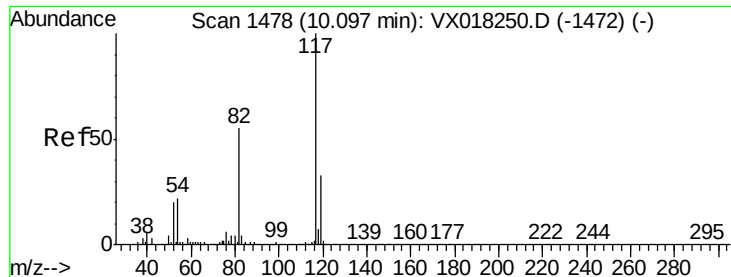


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

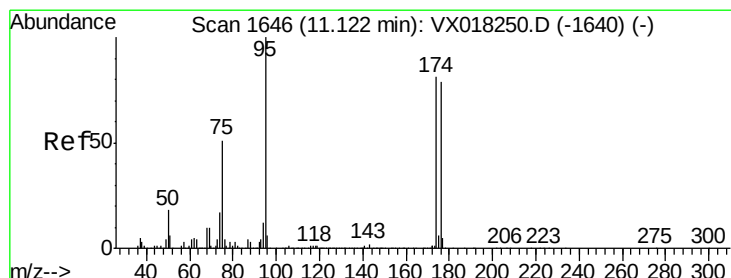
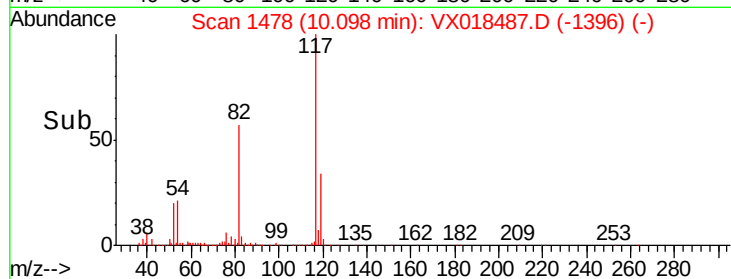
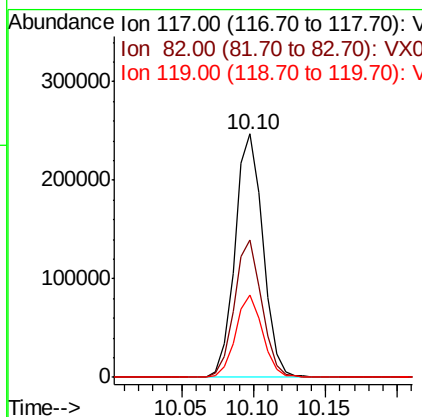
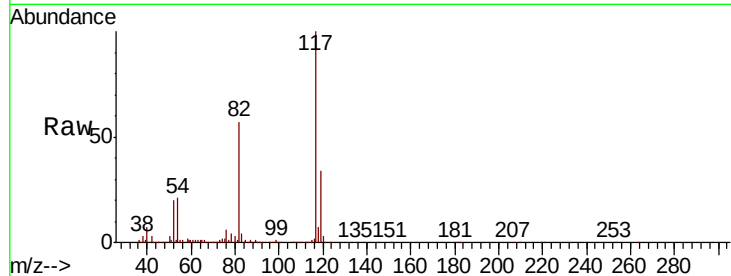




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018487.D
Acq: 18 Sep 2020 13:06

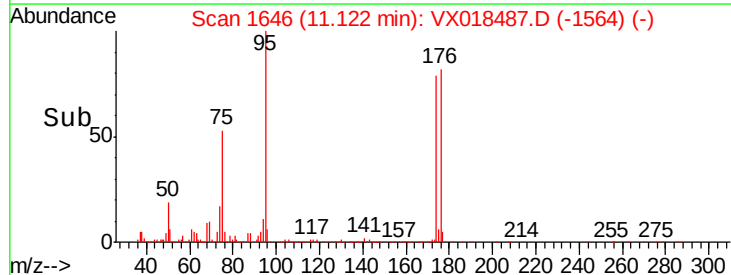
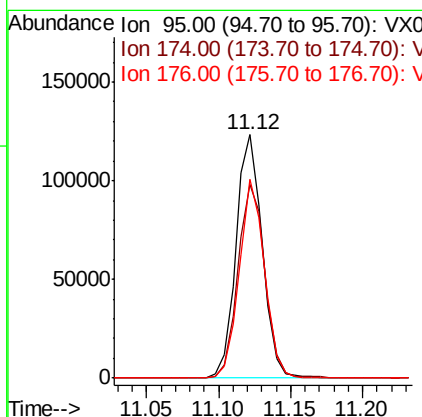
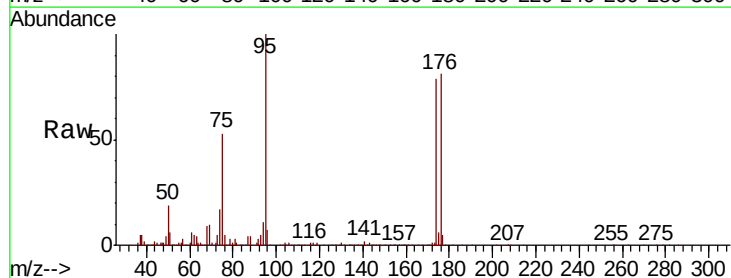
Instrument :
MSVOA_X
ClientSampleId :
200916001-02-TRIP-BLANK

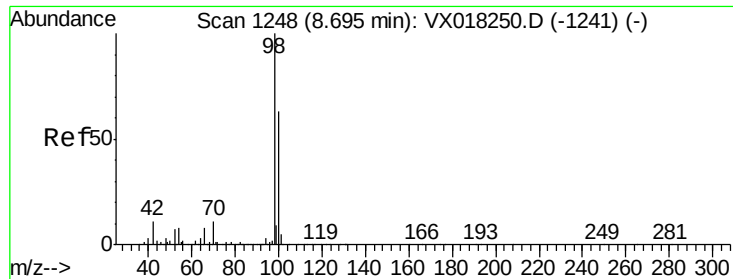
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.2	66.4
119	32.6	26.1	39.1



#60
4-Bromofluorobenzene
Concen: 26.929 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018487.D
Acq: 18 Sep 2020 13:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	81.4	64.2	96.4
176	78.4	62.2	93.4





#63

Toluene-d8

Concen: 29.029 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

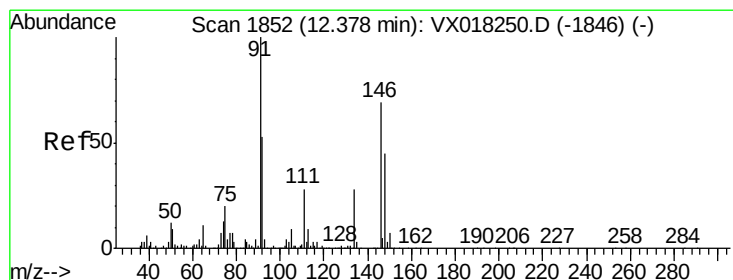
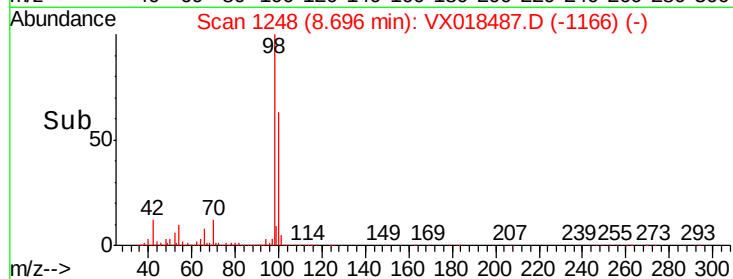
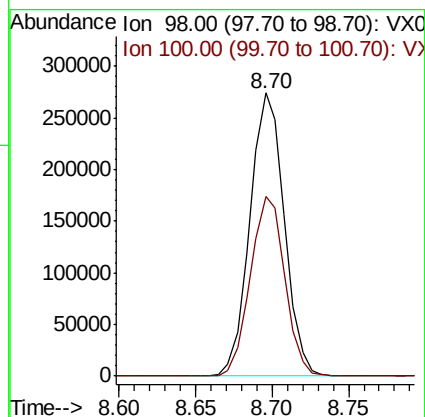
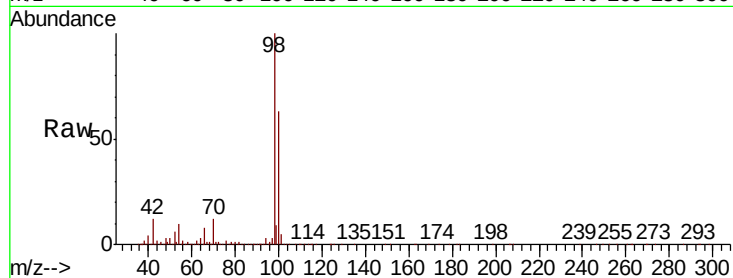
200916001-02-TRIP-BLANK

Tot Ion: 98 Resp: 428592

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0



#87

1,2-Dichlorobenzene

Concen: 0.217 ug/l

RT: 12.09 min Scan# 1804

Delta R.T. -0.29 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

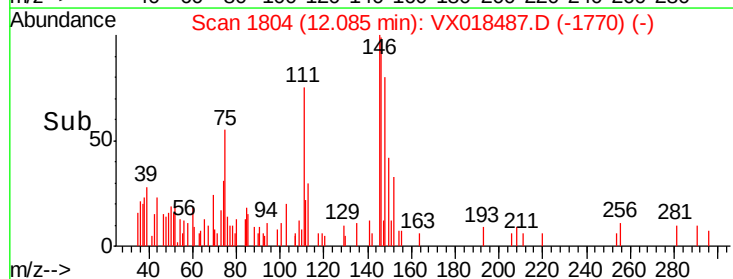
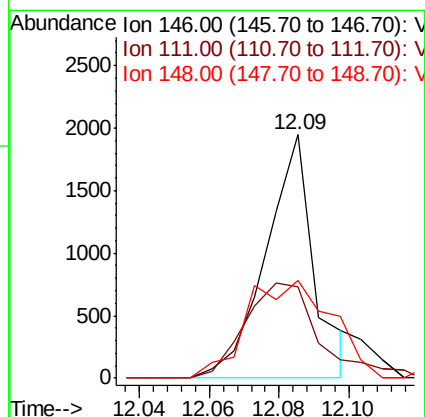
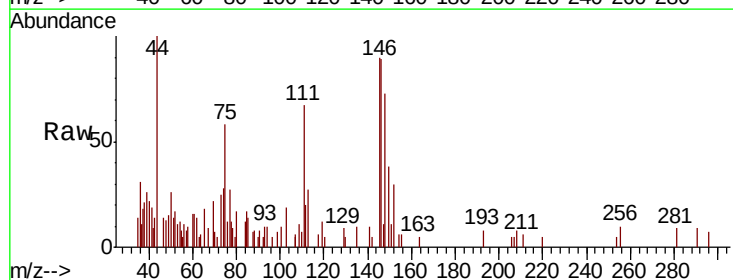
Tgt Ion: 146 Resp: 1859

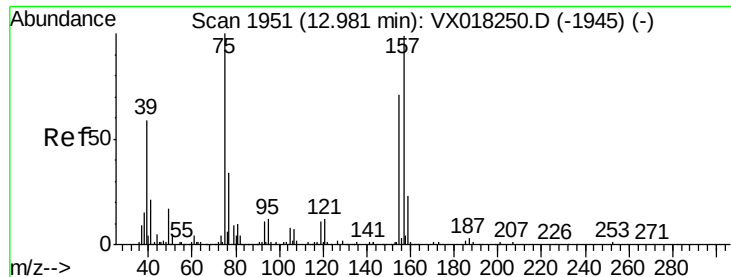
Ion Ratio Lower Upper

146 100

111 61.1 21.4 64.3

148 71.5 32.0 96.2





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.201 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

200916001-02-TRIP-BLANK

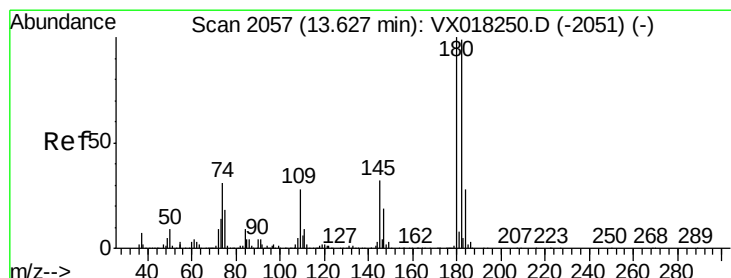
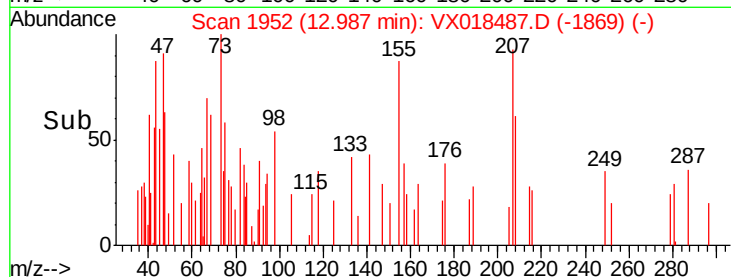
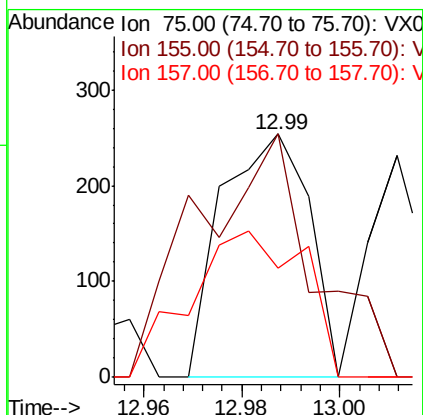
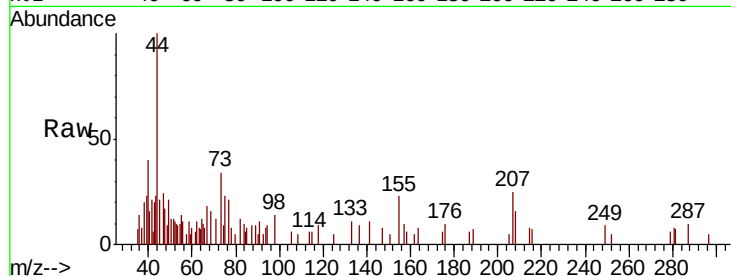
Tot Ion: 75 Resp: 314

Ion Ratio Lower Upper

75 100

155 63.1 63.4 95.2#

157 62.4 87.0 130.6#



#89

1,2,4-Trichlorobenzene

Concen: 0.304 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

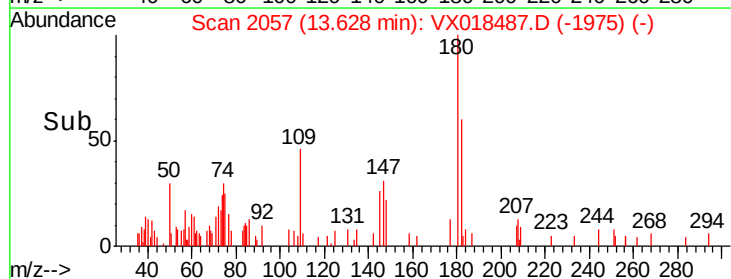
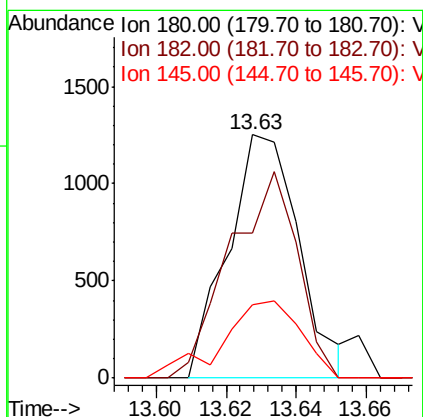
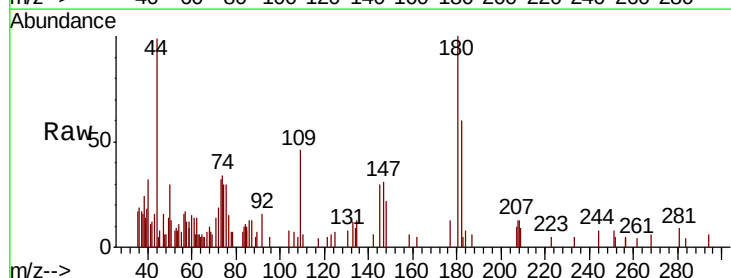
Tgt Ion: 180 Resp: 1765

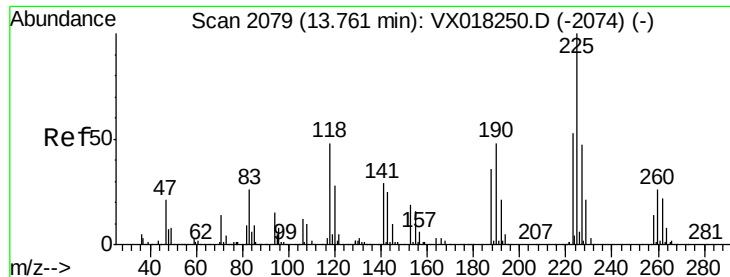
Ion Ratio Lower Upper

180 100

182 81.1 77.1 115.7

145 29.7 25.0 37.6





#90

Hexachlorobutadiene

Concen: 0.478 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

Instrument :

MSVOA_X

ClientSampleId :

200916001-02-TRIP-BLANK

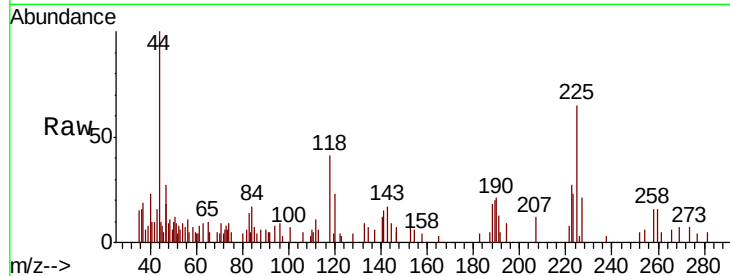
Tot Ion:225 Resp: 1174

Ion Ratio Lower Upper

225 100

223 50.2 0.0 115.8

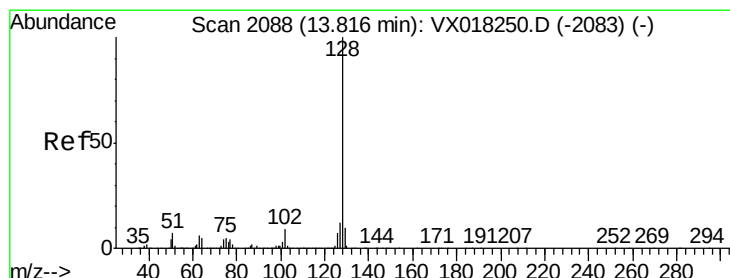
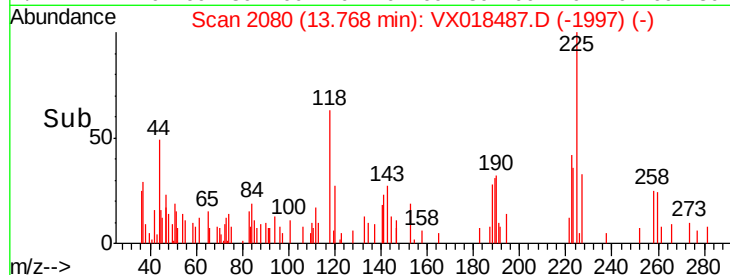
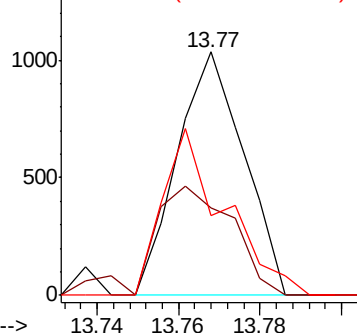
227 63.9 0.0 117.0



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.222 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018487.D

Acq: 18 Sep 2020 13:06

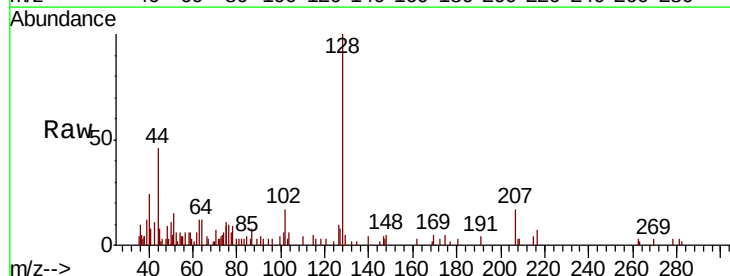
Tgt Ion:128 Resp: 4026

Ion Ratio Lower Upper

128 100

127 9.9 10.2 15.4#

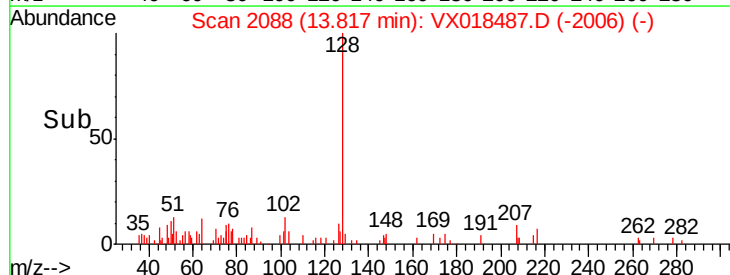
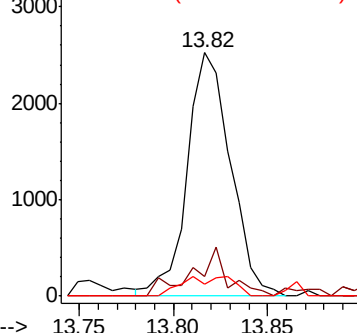
129 4.8 8.7 13.1#

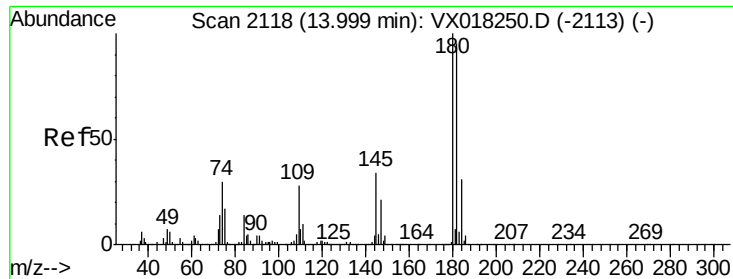


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

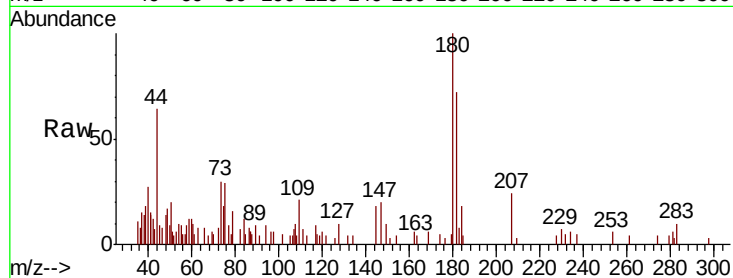




#92
 1,2,3-Trichlorobenzene
 Concen: 0.282 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX018487.D
 Acq: 18 Sep 2020 13:06

Instrument :
 MSVOA_X
 ClientSampleId :
 200916001-02-TRIP-BLANK

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	0.0	191.6
145	40.5	0.0	67.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

