

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090920\
 Data File : VX018311.D
 Acq On : 09 Sep 2020 10:39
 Operator : JC/SP
 Sample : VX0909MBL01
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0909MBL01

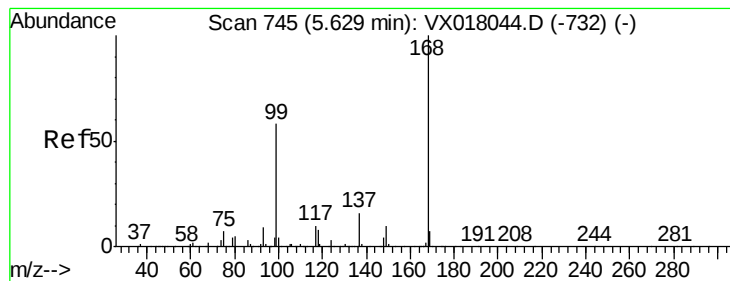
Quant Time: Sep 09 15:02:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	455316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	727913	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	674385	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	319055	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	323165	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
35) Dibromofluoromethane	5.46	113	253538	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
50) Toluene-d8	8.70	98	878682	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
62) 4-Bromofluorobenzene	11.12	95	317353	43.68	ug/l	0.00
Spiked Amount			Recovery	=	87.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1704	0.607	ug/l	90
8) Diethyl Ether	2.18	74	654	0.243	ug/l	92
10) Methyl Iodide	2.50	142	2470	5.768	ug/l #	87
11) Tert butyl alcohol	2.98	59	2097	1.706	ug/l #	87
13) Acrolein	2.28	56	229	0.449	ug/l	97
15) Acrylonitrile	3.10	53	728	0.261	ug/l #	65
16) Acetone	2.42	43	1532	0.622	ug/l #	74
17) Carbon Disulfide	2.56	76	3019	0.224	ug/l #	93
20) Methylene Chloride	2.82	84	1539	Below Cal	#	58
36) 1,1-Dichloropropene	5.63	75	36982	5.508	ug/l #	53
38) Carbon Tetrachloride	5.62	117	48087	6.355	ug/l #	17
49) 1,4-Dioxane	7.70	88	118	1.039	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	166316	23.433	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	166316	63.289	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	462	0.249	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.63	180	1852	0.289	ug/l	80
94) Hexachlorobutadiene	13.76	225	853	0.337	ug/l	89
95) Naphthalene	13.82	128	4349	0.206	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.01	180	1666	0.263	ug/l	77

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

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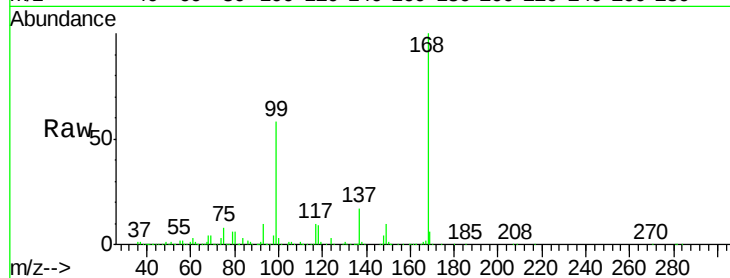
VX0909MBL01

Tgt Ion: 168 Resp: 455316

Ion Ratio Lower Upper

168 100

99 57.9 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

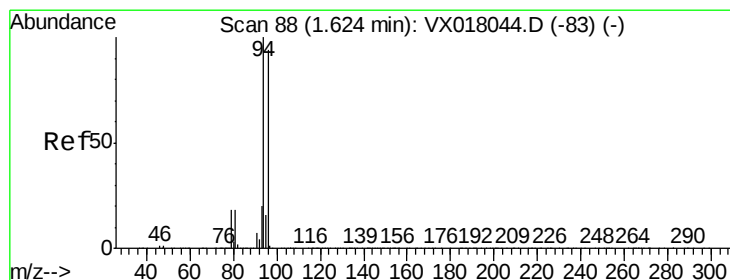
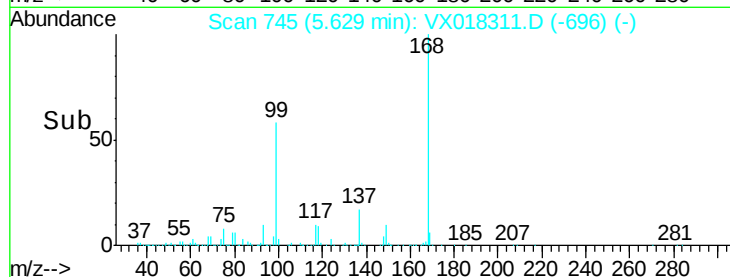
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.607 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018311.D

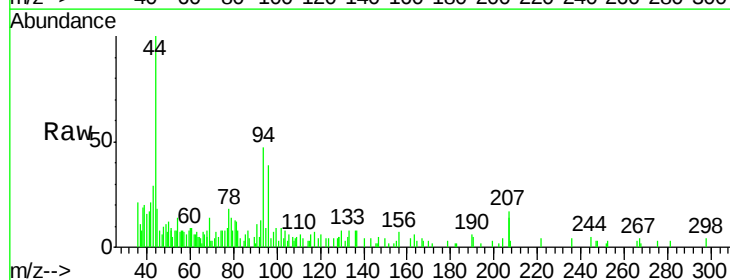
Acq: 09 Sep 2020 10:39

Tgt Ion: 94 Resp: 1704

Ion Ratio Lower Upper

94 100

96 83.9 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

600

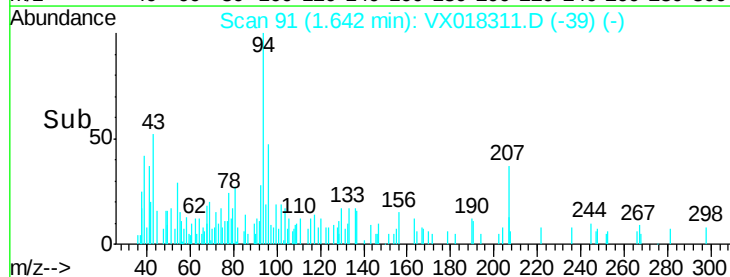
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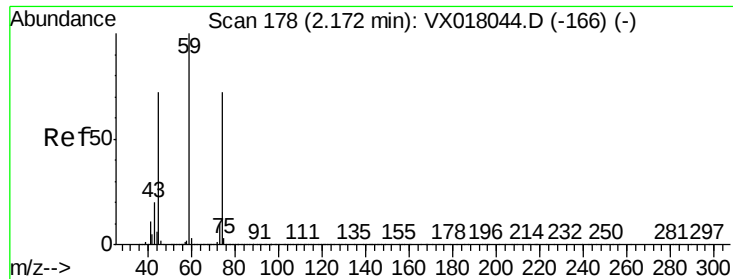
200

0

Time-->

1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.243 ug/l

RT: 2.18 min Scan# 180

Delta R.T. 0.01 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

Instrument :

MSVOA_X

ClientSampled :

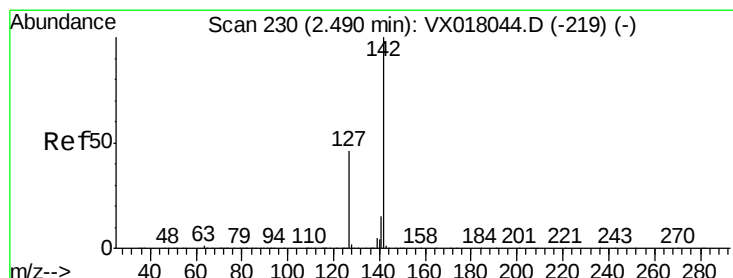
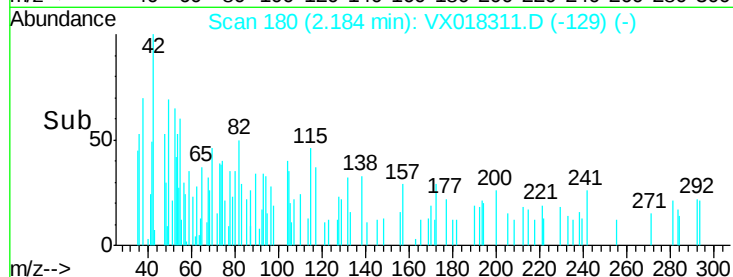
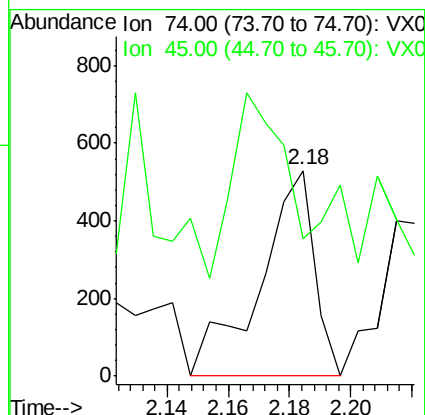
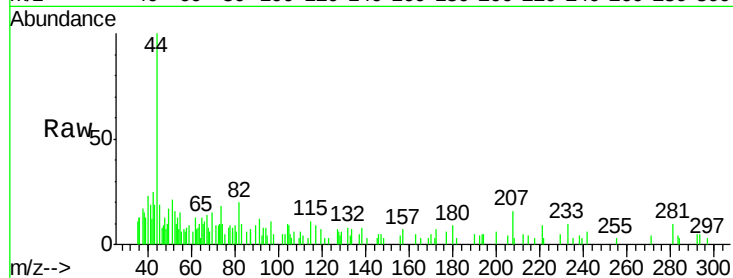
VX0909MBL01

Tgt Ion: 74 Resp: 654

Ion Ratio Lower Upper

74 100

45 93.6 50.7 152.3



#10

Methyl Iodide

Concen: 5.768 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

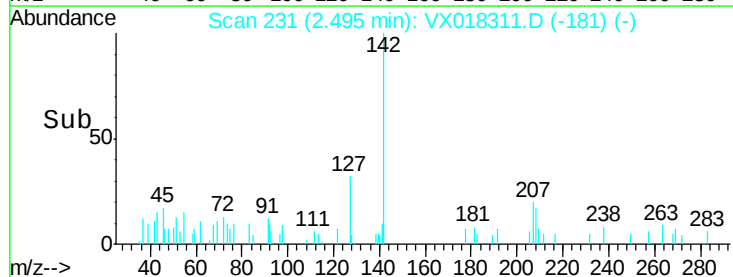
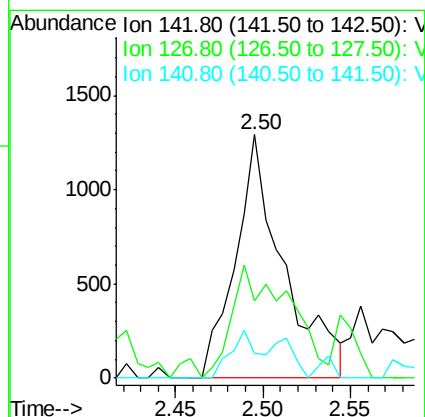
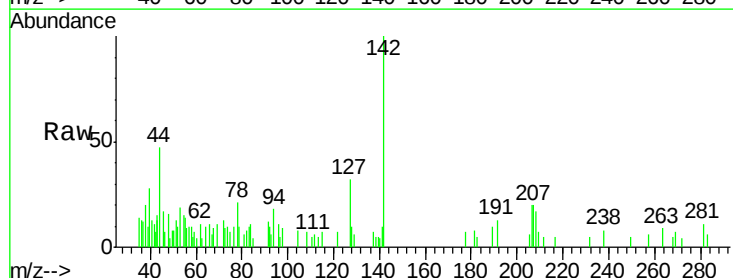
Tgt Ion: 142 Resp: 2470

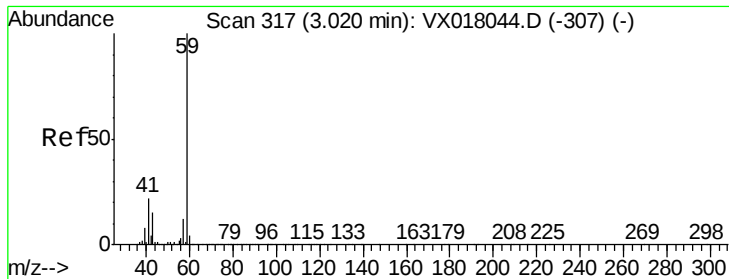
Ion Ratio Lower Upper

142 100

127 55.6 37.0 55.6#

141 11.2 11.5 17.3#

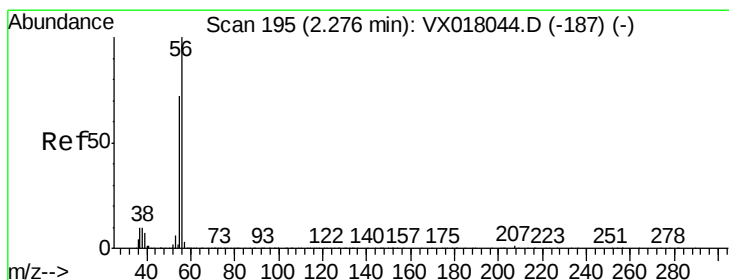
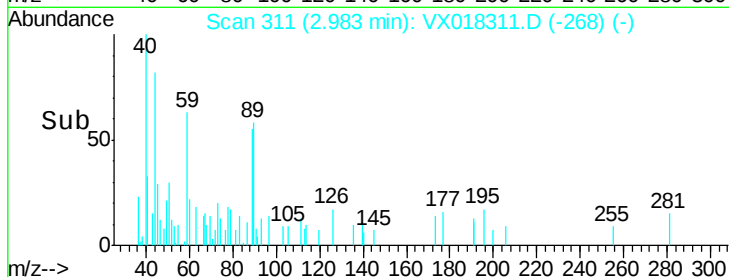
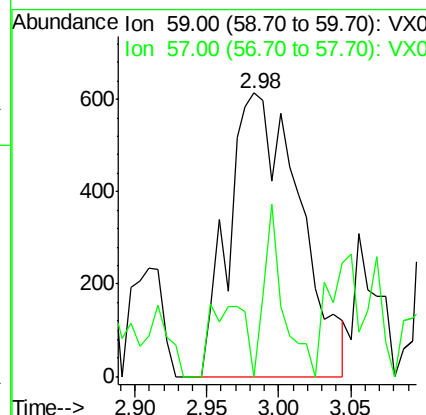
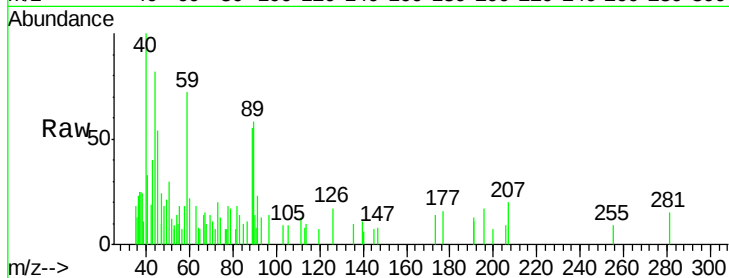




#11
Tert butyl alcohol
Concen: 1.706 ug/l
RT: 2.98 min Scan# 311
Delta R.T. -0.04 min
Lab File: VX018311.D
Acq: 09 Sep 2020 10:39

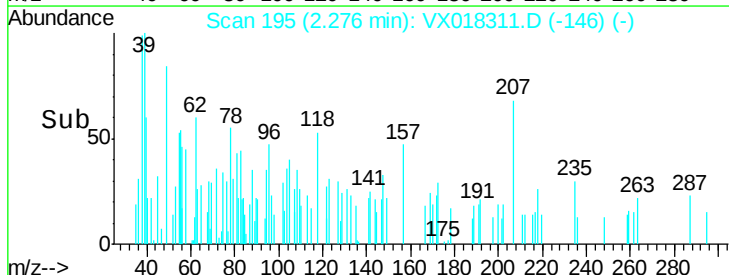
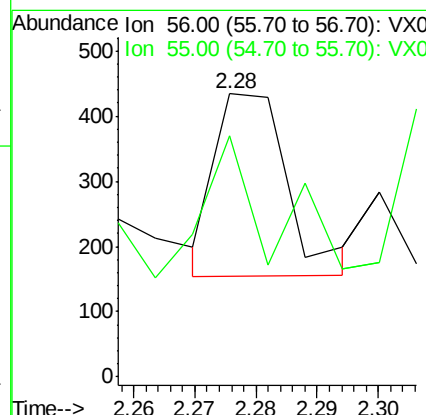
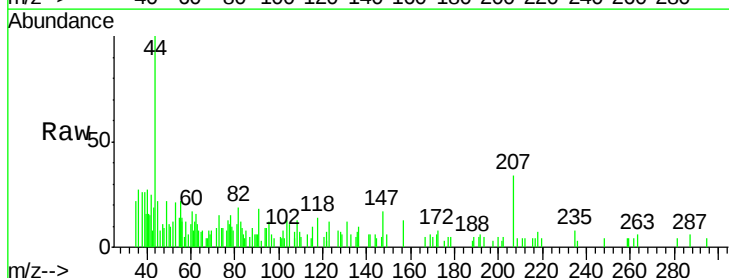
Instrument :
MSVOA_X
ClientSampleId :
VX0909MBL01

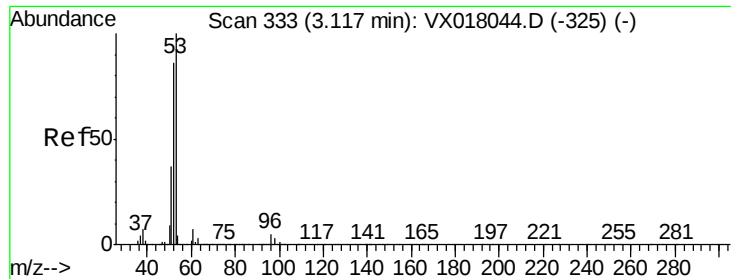
Tgt Ion: 59 Resp: 2097
Ion Ratio Lower Upper
59 100
57 16.1 8.9 13.3#



#13
Acrolein
Concen: 0.449 ug/l
RT: 2.28 min Scan# 195
Delta R.T. -0.00 min
Lab File: VX018311.D
Acq: 09 Sep 2020 10:39

Tgt Ion: 56 Resp: 229
Ion Ratio Lower Upper
56 100
55 73.8 57.0 85.6





#15

Acrylonitrile

Concen: 0.261 ug/l

RT: 3.10 min Scan# 330

Delta R.T. -0.02 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

Instrument :

MSVOA_X

ClientSampled :

VX0909MBL01

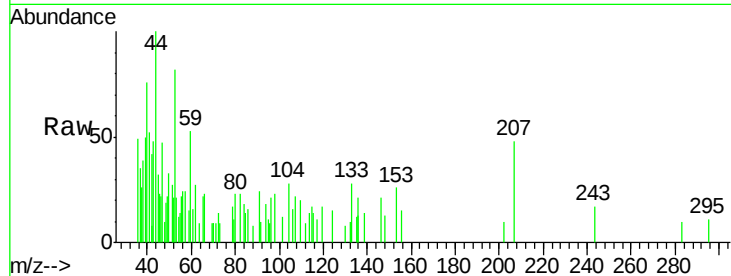
Tgt Ion: 53 Resp: 728

Ion Ratio Lower Upper

53 100

52 119.0 66.9 100.3#

51 51.1 28.7 43.1#



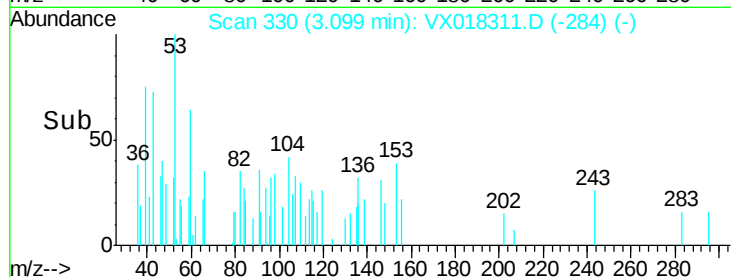
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

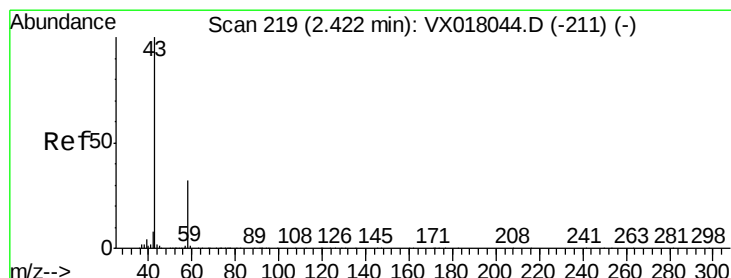
Ion 51.00 (50.70 to 51.70): VX0

3.10

3.15



Time-->



#16

Acetone

Concen: 0.622 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018311.D

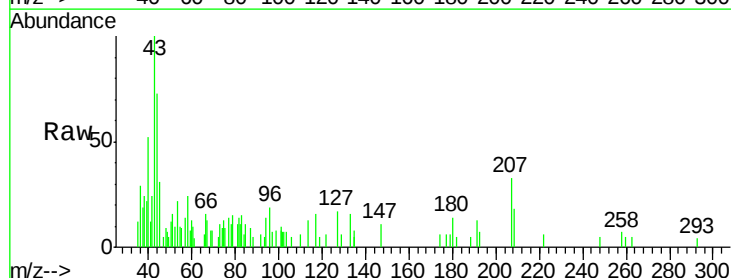
Acq: 09 Sep 2020 10:39

Tgt Ion: 43 Resp: 1532

Ion Ratio Lower Upper

43 100

58 17.4 25.5 38.3#

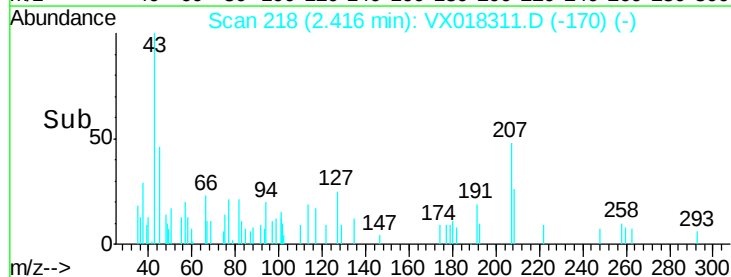


Abundance Ion 43.00 (42.70 to 43.70): VX0

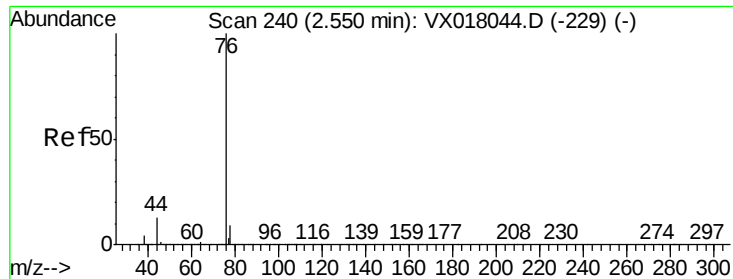
Ion 58.00 (57.70 to 58.70): VX0

2.42

2.45



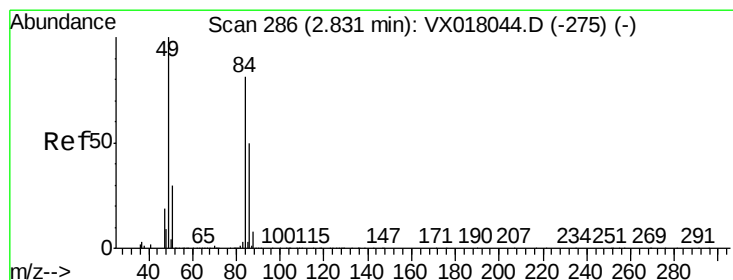
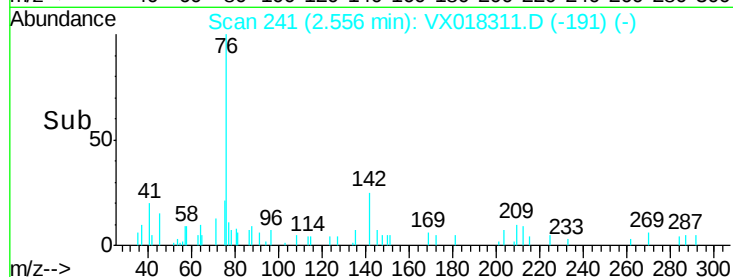
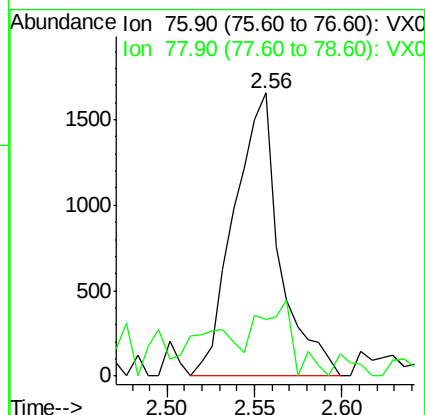
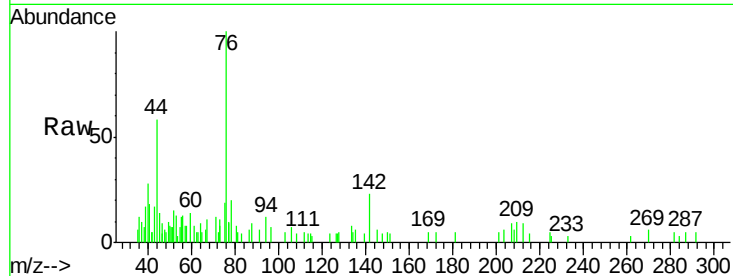
Time-->



#17
Carbon Disulfide
Concen: 0.224 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX018311.D
Acq: 09 Sep 2020 10:39

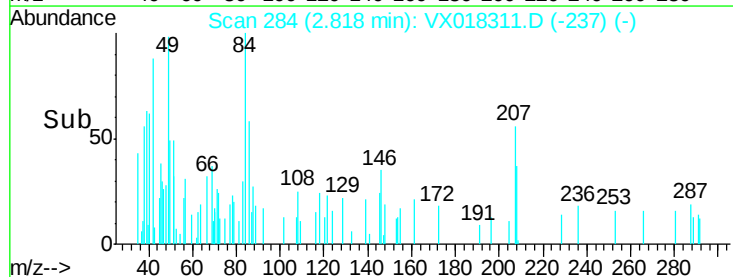
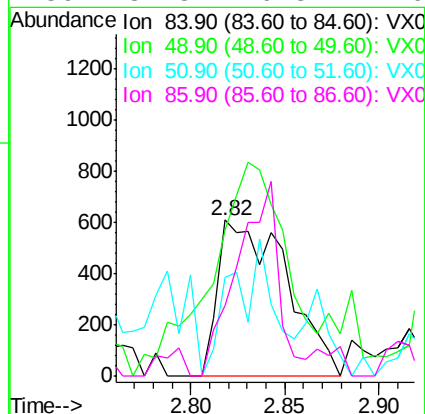
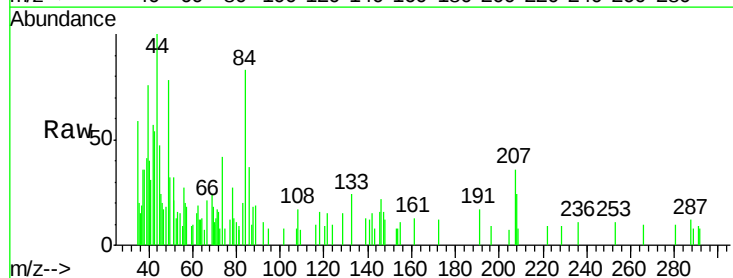
Instrument :
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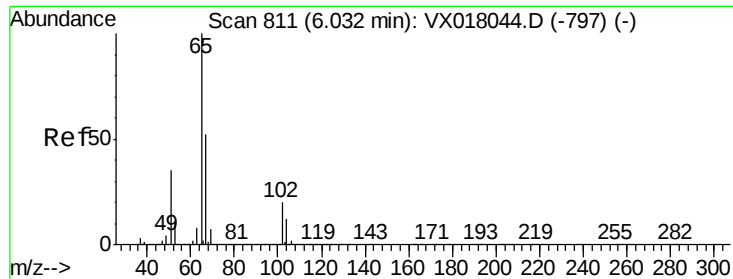
Tgt Ion: 76 Resp: 3019
Ion Ratio Lower Upper
76 100
78 11.8 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.82 min Scan# 284
Delta R.T. -0.01 min
Lab File: VX018311.D
Acq: 09 Sep 2020 10:39

Tgt Ion: 84 Resp: 1539
Ion Ratio Lower Upper
84 100
49 66.1 98.6 148.0#
51 49.9 29.6 44.4#
86 34.8 49.8 74.6#

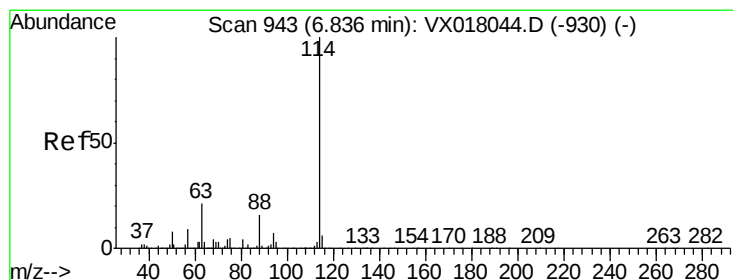
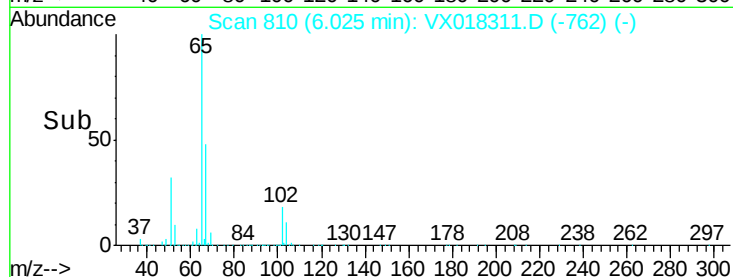
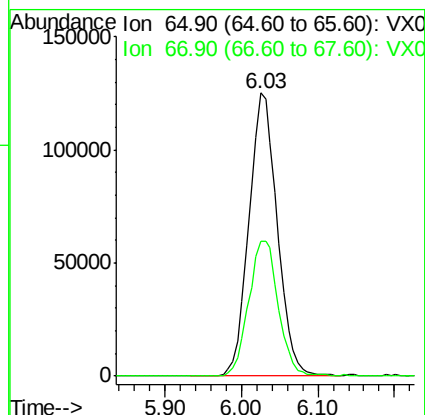
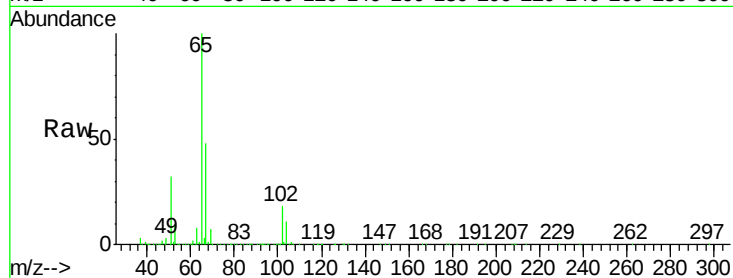




#33
 1,2-Dichloroethane-d4
 Concen: 51.126 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX018311.D
 Acq: 09 Sep 2020 10:39

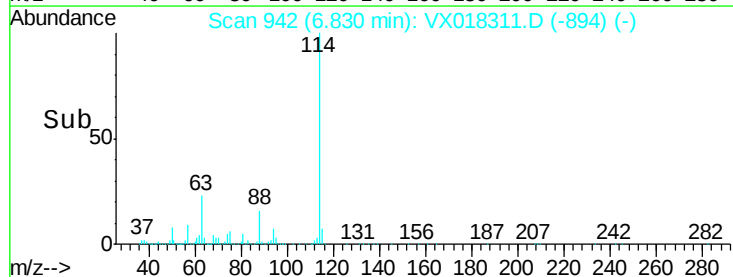
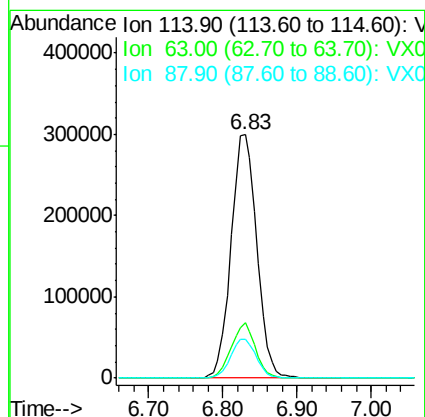
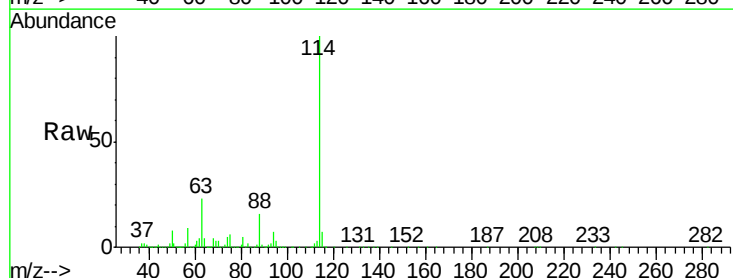
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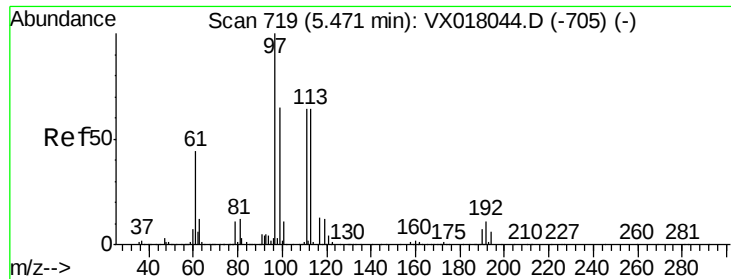
Tgt Ion: 65 Resp: 323165
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.01 min
 Lab File: VX018311.D
 Acq: 09 Sep 2020 10:39

Tgt Ion: 114 Resp: 727913
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 42.6
 88 16.2 0.0 31.8

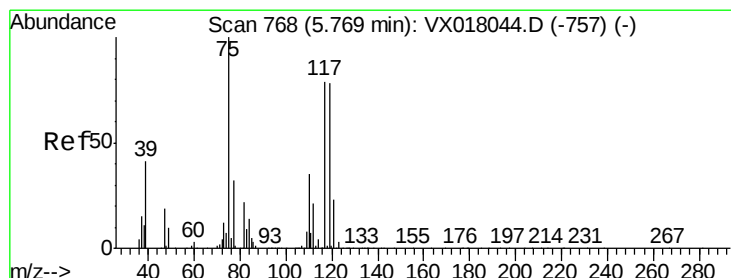
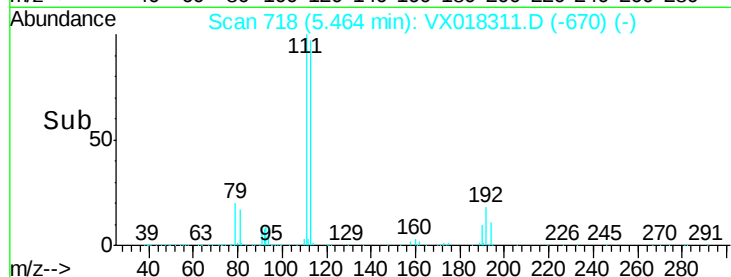
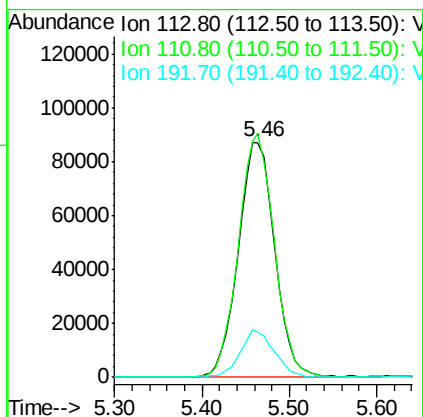
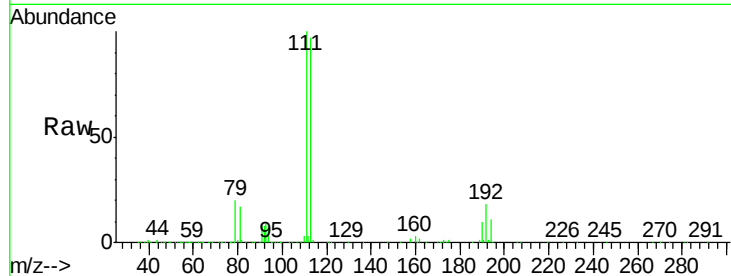




#35
 Dibromofluoromethane
 Concen: 51.143 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX018311.D
 Acq: 09 Sep 2020 10:39

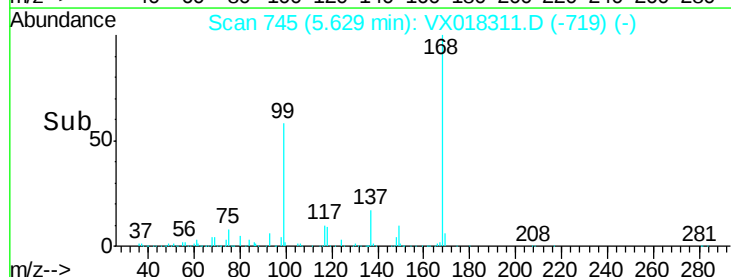
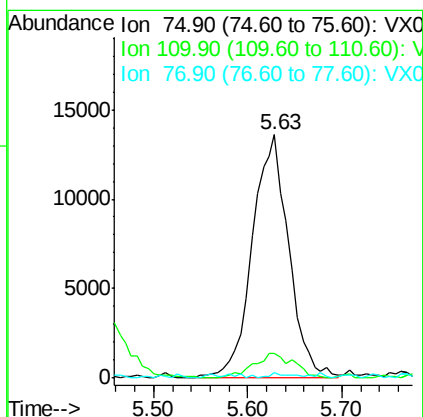
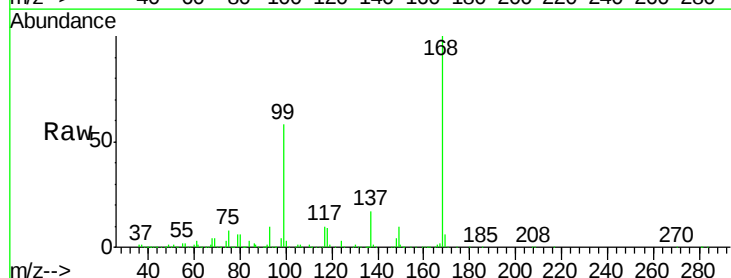
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0909MBL01

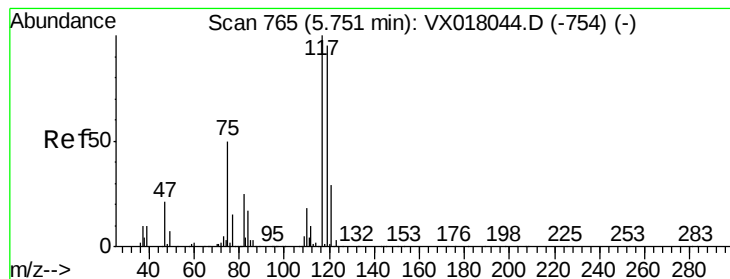
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.6	122.4
192	19.0	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 5.508 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018311.D
 Acq: 09 Sep 2020 10:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	18.0	54.0#
77	1.2	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 6.355 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

Instrument :

MSVOA_X

ClientSampled :

VX0909MBL01

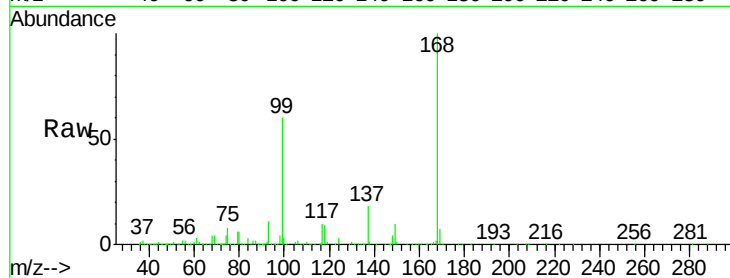
Tgt Ion: 117 Resp: 48087

Ion Ratio Lower Upper

117 100

119 6.1 75.8 113.6#

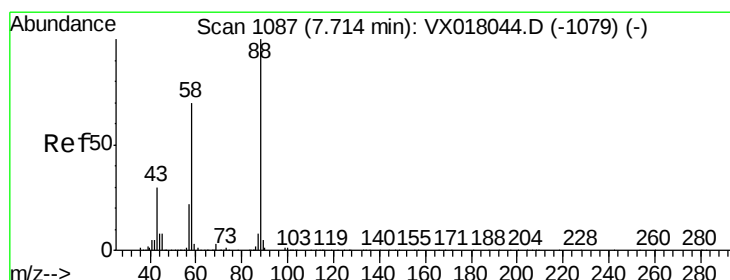
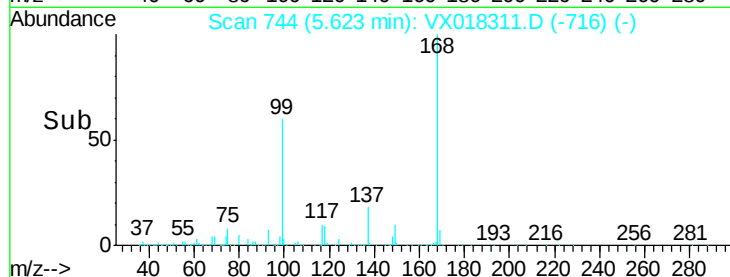
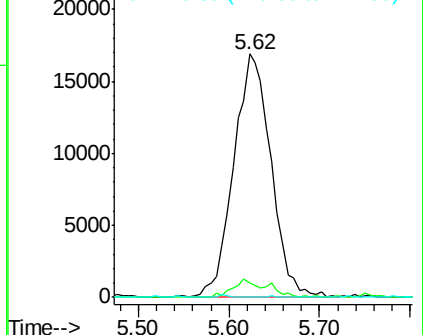
121 0.0 23.4 35.0#



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



#49

1,4-Dioxane

Concen: 1.039 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

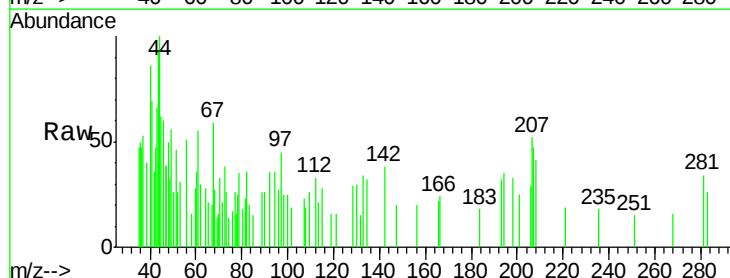
Tgt Ion: 88 Resp: 118

Ion Ratio Lower Upper

88 100

43 207.6 27.4 41.0#

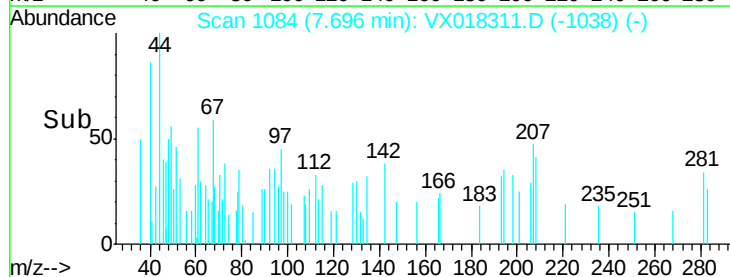
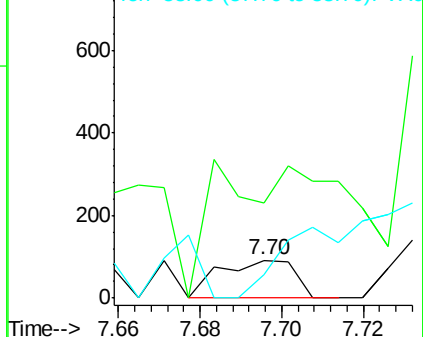
58 0.0 56.4 84.6#

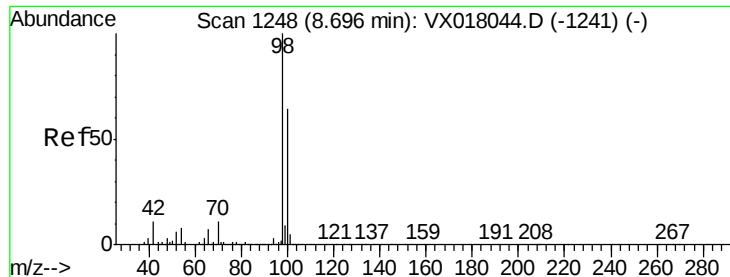


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.588 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

Instrument :

MSVOA_X

ClientSampleId :

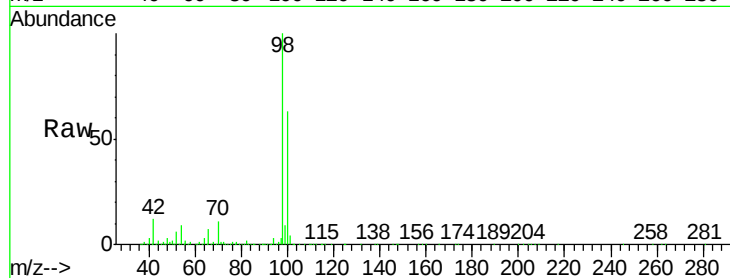
VX0909MBL01

Tgt Ion: 98 Resp: 878682

Ion Ratio Lower Upper

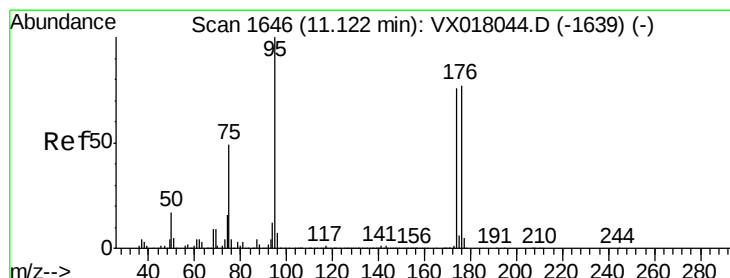
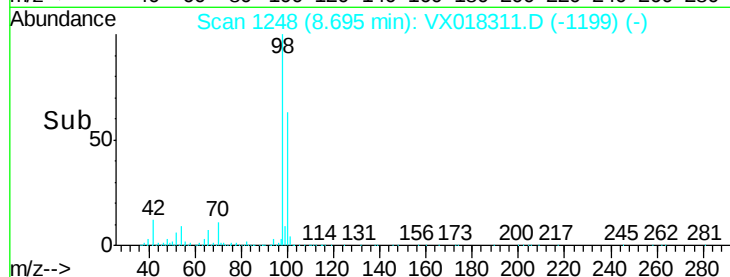
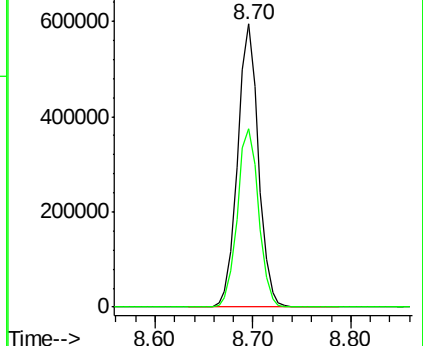
98 100

100 64.2 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.685 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

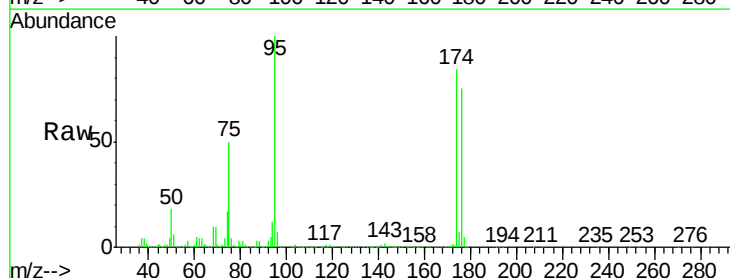
Tgt Ion: 95 Resp: 317353

Ion Ratio Lower Upper

95 100

174 80.3 0.0 160.2

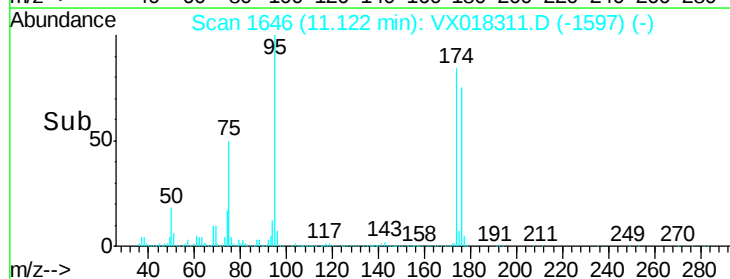
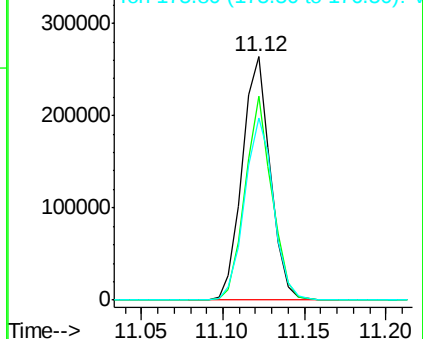
176 76.9 0.0 155.8

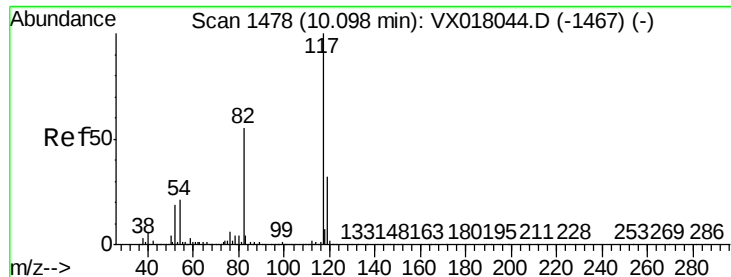


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

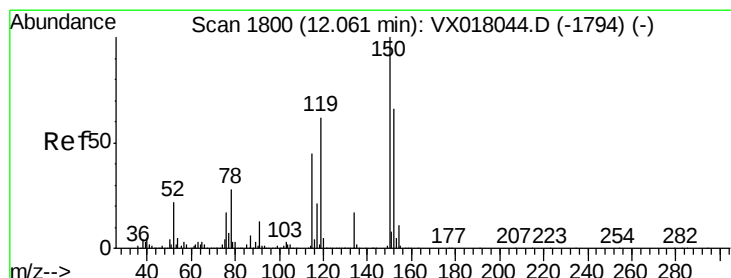
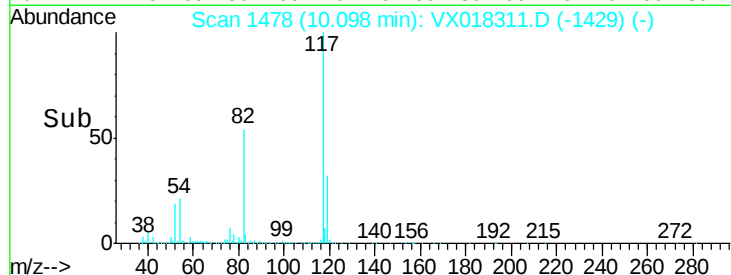
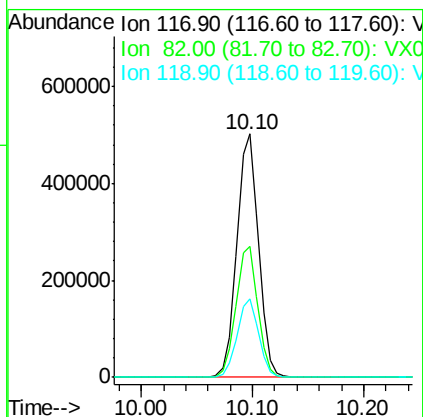
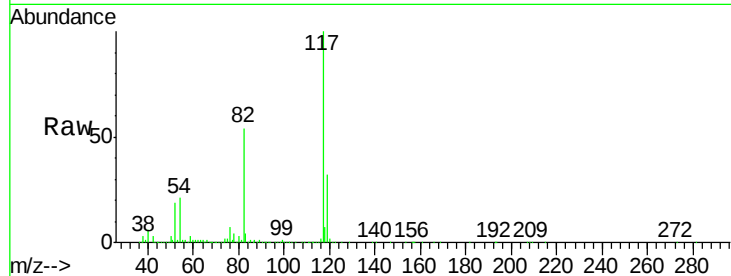




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018311.D
Acq: 09 Sep 2020 10:39

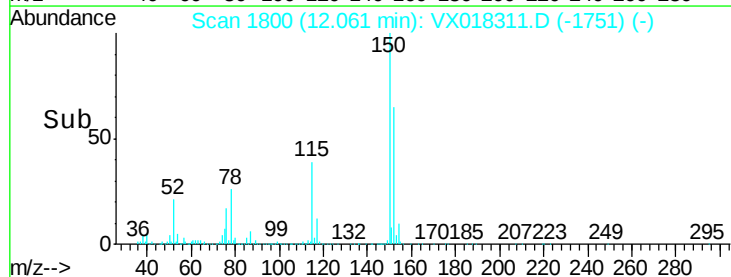
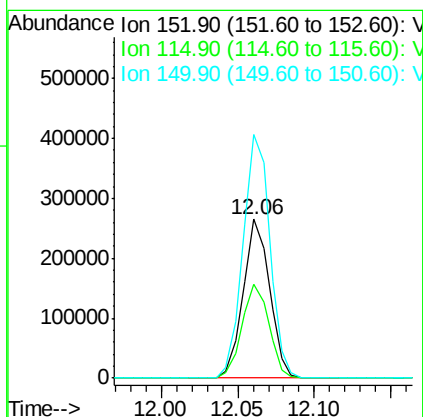
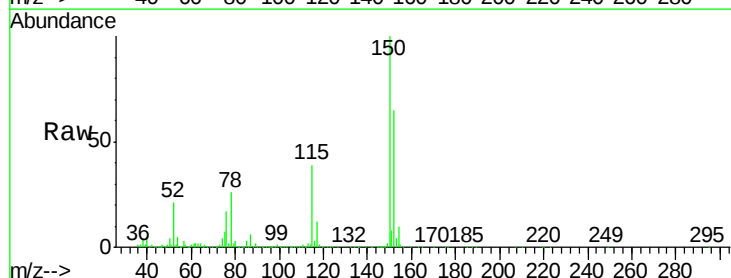
Instrument :
MSVOA_X
ClientSampleId :
VX0909MBL01

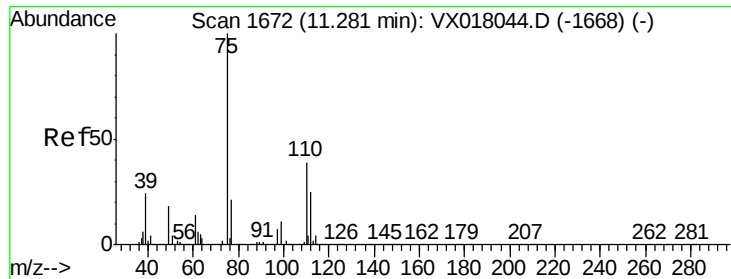
Tgt Ion:117 Resp: 674385
Ion Ratio Lower Upper
117 100
82 53.8 44.2 66.2
119 32.2 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018311.D
Acq: 09 Sep 2020 10:39

Tgt Ion:152 Resp: 319055
Ion Ratio Lower Upper
152 100
115 60.6 41.5 124.5
150 155.8 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 23.433 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

Instrument :

MSVOA_X

ClientSampled :

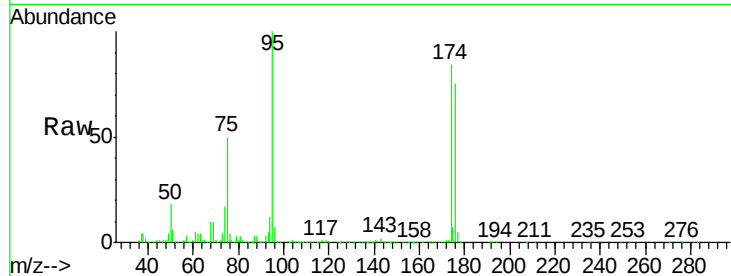
VX0909MBL01

Tgt Ion: 75 Resp: 166316

Ion Ratio Lower Upper

75 100

77 1.5 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

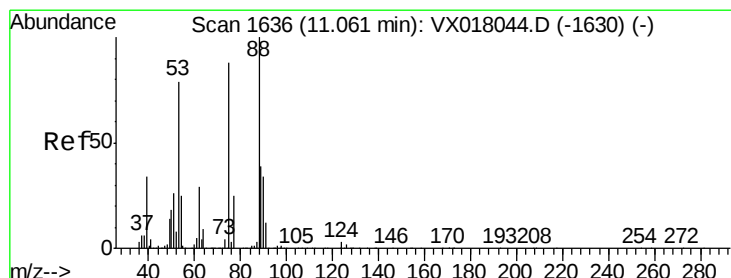
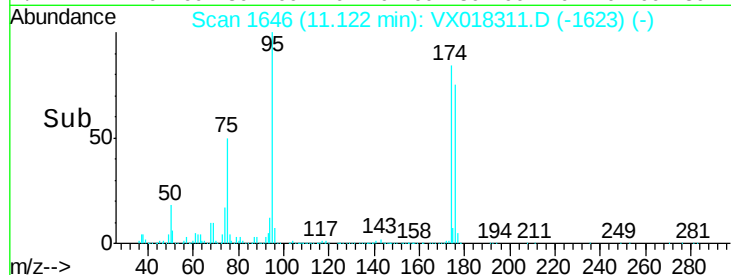
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 63.289 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

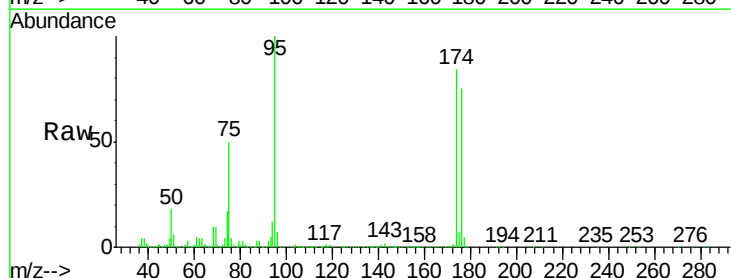
Tgt Ion: 75 Resp: 166316

Ion Ratio Lower Upper

75 100

53 0.0 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

11.12

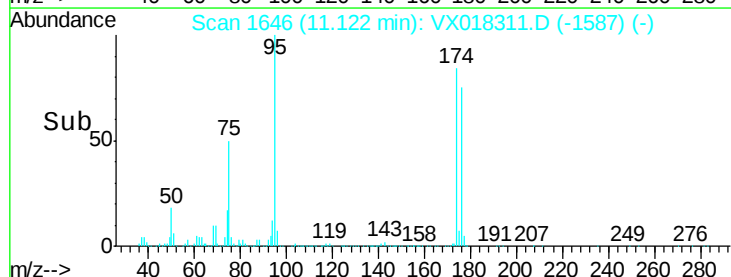
150000

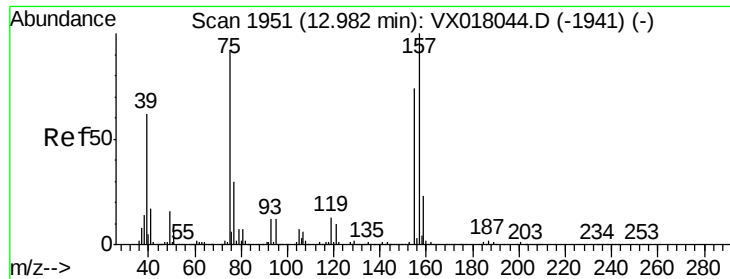
100000

50000

0

Time--> 11.00 11.10 11.20





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.249 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

Instrument :

MSVOA_X

ClientSampled :

VX0909MBL01

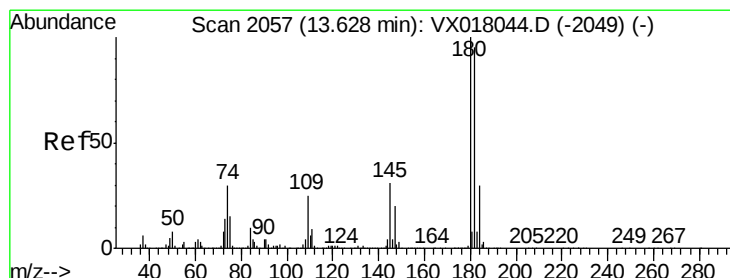
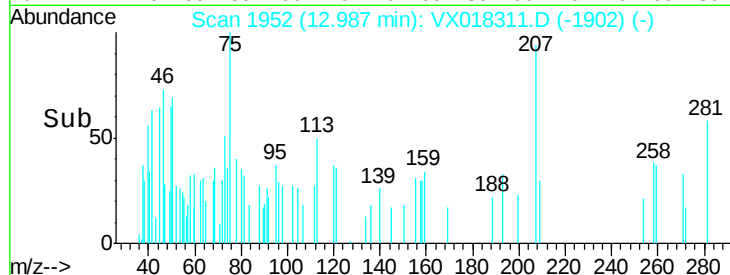
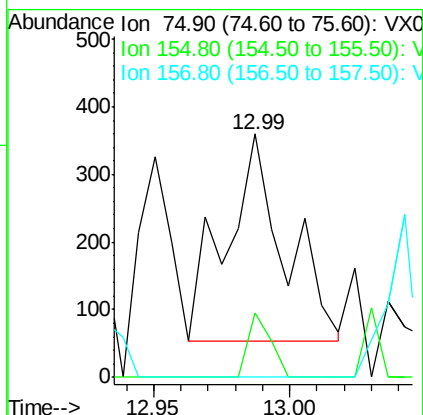
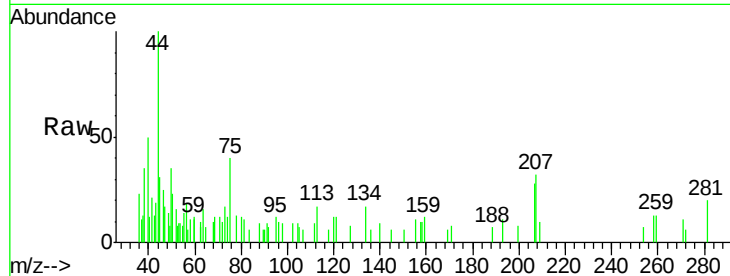
Tgt Ion: 75 Resp: 462

Ion Ratio Lower Upper

75 100

155 11.9 40.2 120.6#

157 0.0 55.0 165.2#



#93

1,2,4-Trichlorobenzene

Concen: 0.289 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

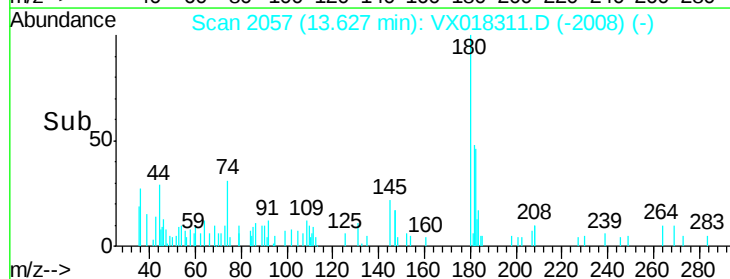
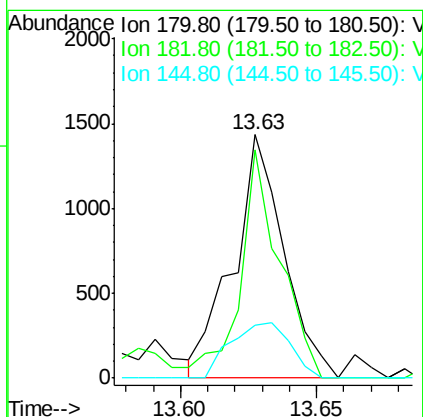
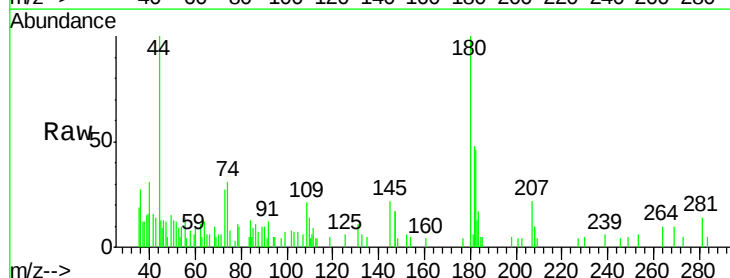
Tgt Ion: 180 Resp: 1852

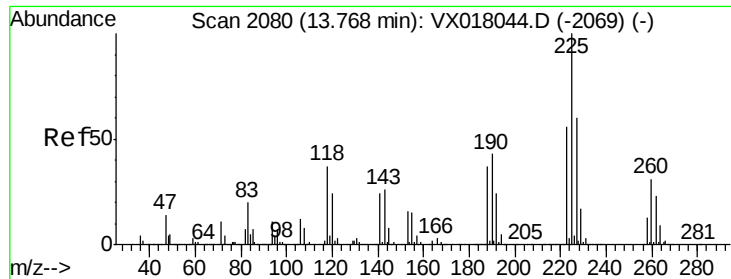
Ion Ratio Lower Upper

180 100

182 72.3 47.5 142.6

145 26.6 15.7 47.1





#94

Hexachlorobutadiene

Concen: 0.337 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

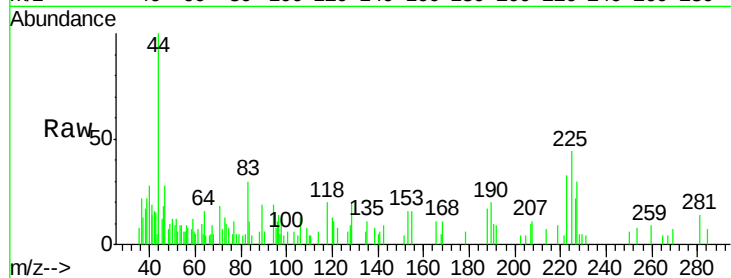
Instrument :

MSVOA_X

ClientSampled :

VX0909MBL01

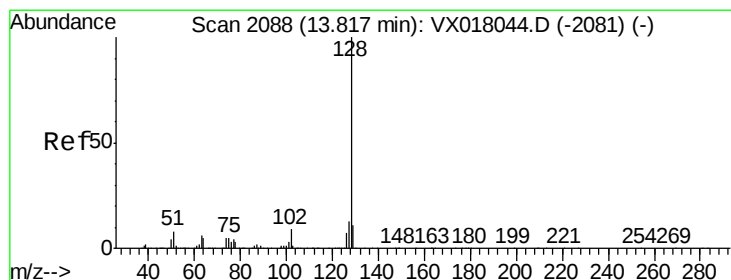
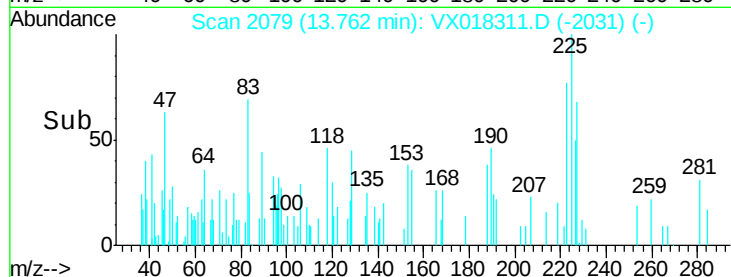
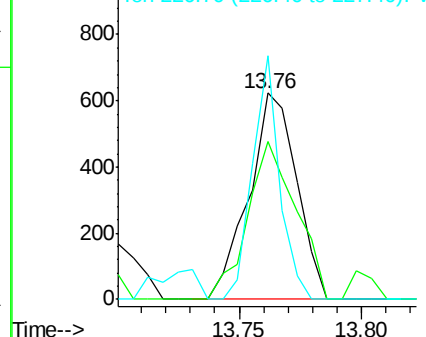
Tgt Ion:	225	Resp:	853
Ion	Ratio	Lower	Upper
225	100		
223	77.0	30.7	92.1
227	66.5	32.6	97.8



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



#95

Naphthalene

Concen: 0.206 ug/l

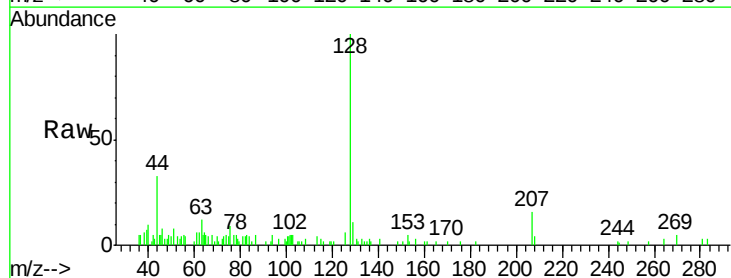
RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018311.D

Acq: 09 Sep 2020 10:39

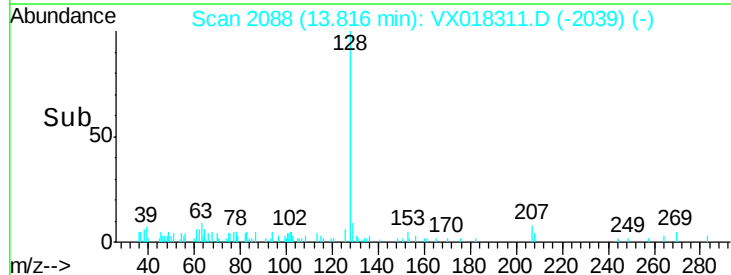
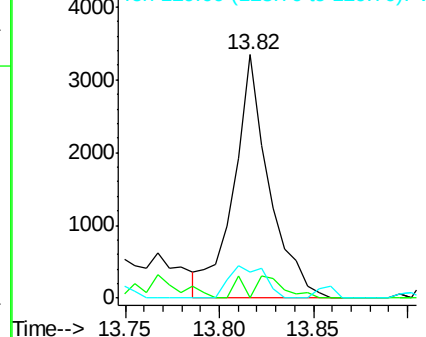
Tgt Ion:	128	Resp:	4349
Ion	Ratio	Lower	Upper
128	100		
127	9.4	10.2	15.2#
129	13.3	8.7	13.1#

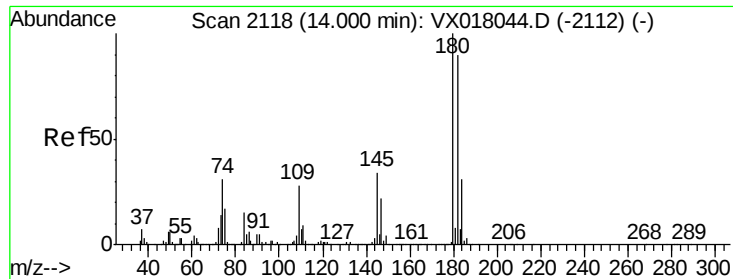


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.263 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX018311.D
 Acq: 09 Sep 2020 10:39

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0909MBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	69.3	47.3	142.0
145	27.8	17.5	52.6

