

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091620\
 Data File : VX018452.D
 Acq On : 16 Sep 2020 19:52
 Operator : JC/SP
 Sample : L4021-06 20X
 Misc : 7.77µ/5mL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B16-1-3

Quant Time: Sep 17 04:25:37 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	449012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	719027	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	699421	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	356467	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	323074	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
35) Dibromofluoromethane	5.47	113	252192	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
50) Toluene-d8	8.70	98	863323	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
62) 4-Bromofluorobenzene	11.12	95	344741	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	

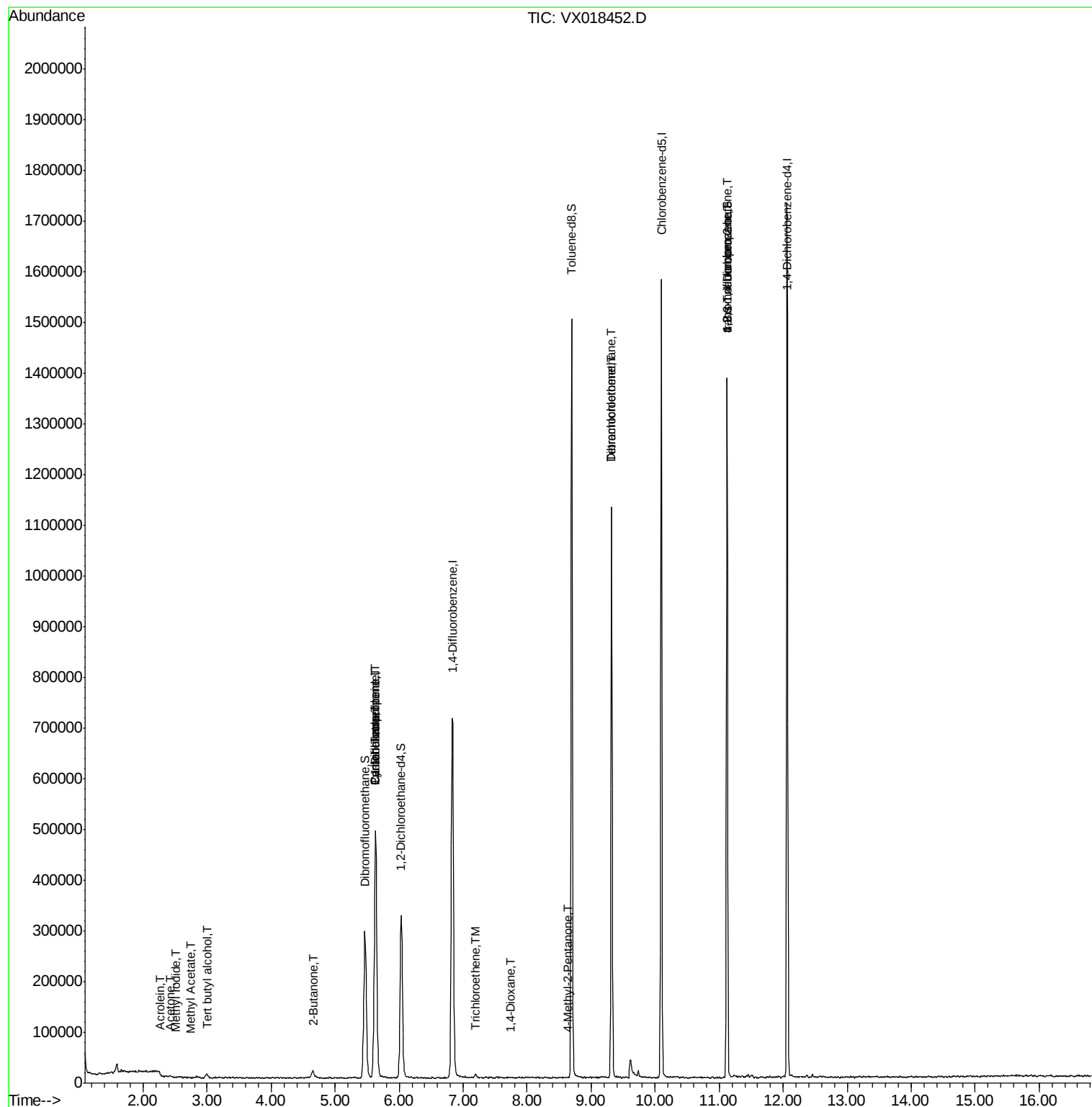
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.50	142	459	5.377	ug/l #	47
11) Tert butyl alcohol	3.00	59	5509	4.545	ug/l #	80
13) Acrolein	2.27	56	310	0.617	ug/l	90
16) Acetone	2.42	43	3040	1.252	ug/l #	78
18) Methyl Acetate	2.75	43	1434	0.245	ug/l	95
20) Methylene Chloride	2.84	84	1591	Below Cal	#	81
25) 2-Butanone	4.65	43	1438	0.360	ug/l #	75
31) Cyclohexane	5.64	56	9235	1.238	ug/l #	23
36) 1,1-Dichloropropene	5.63	75	33792	5.095	ug/l #	52
38) Carbon Tetrachloride	5.64	117	48921	6.546	ug/l #	17
44) Trichloroethene	7.19	130	2623	0.476	ug/l	97
49) 1,4-Dioxane	7.74	88	274	2.442	ug/l #	63
51) 4-Methyl-2-Pentanone	8.63	43	1677	0.218	ug/l	95
60) Dibromochloromethane	9.32	129	207713	33.598	ug/l #	11
64) Tetrachloroethene	9.32	164	213922	41.621	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	175268	22.103	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	175268	59.695	ug/l #	12

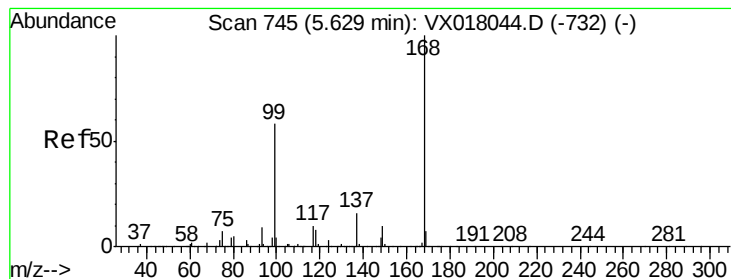
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

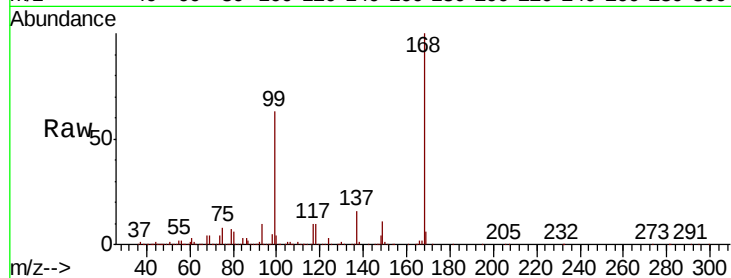
B16-1-3

Tot Ion:168 Resp: 449012

Ion Ratio Lower Upper

168 100

99 63.3 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

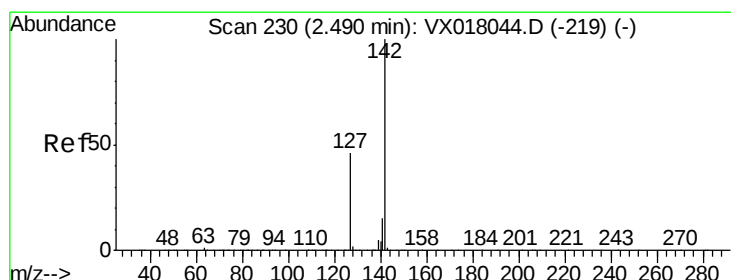
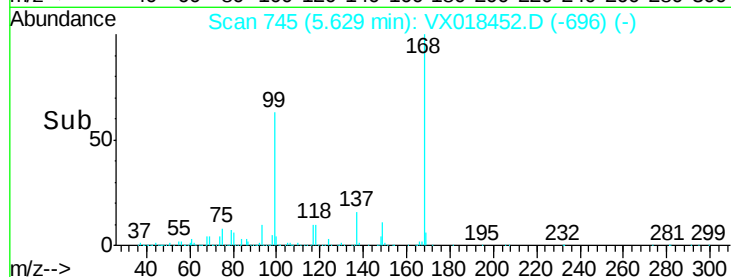
100000

50000

0

Time-->

5.50 5.60 5.70



#10

Methyl Iodide

Concen: 5.377 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

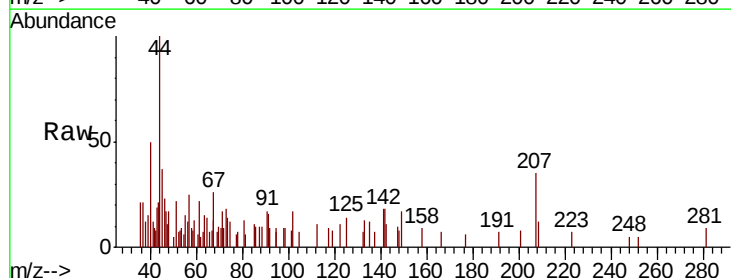
Tgt Ion:142 Resp: 459

Ion Ratio Lower Upper

142 100

127 23.5 37.0 55.6#

141 60.6 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

2.50

400

300

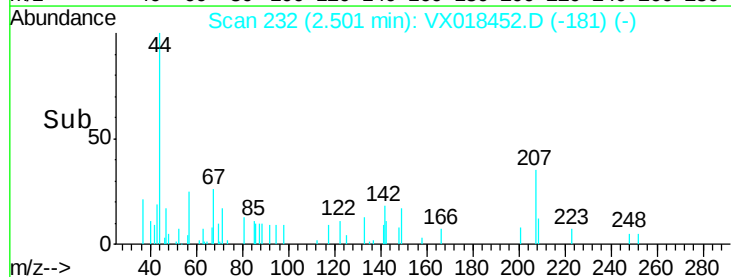
200

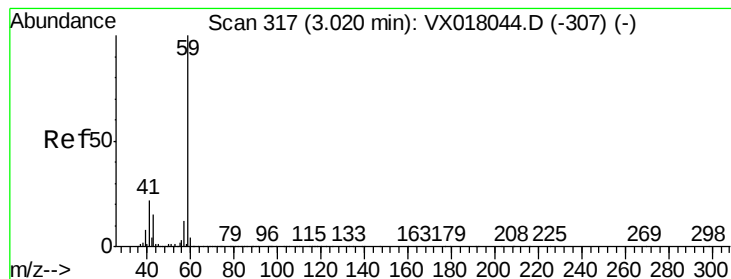
100

0

Time-->

2.45 2.50



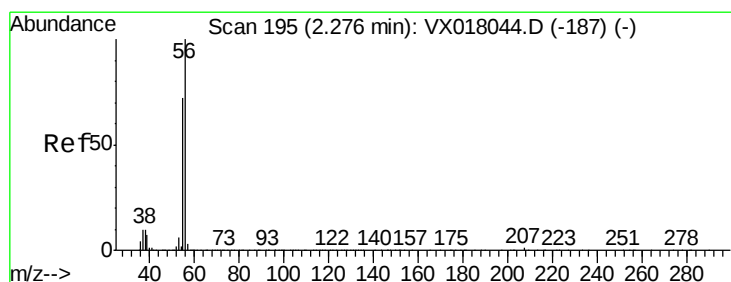
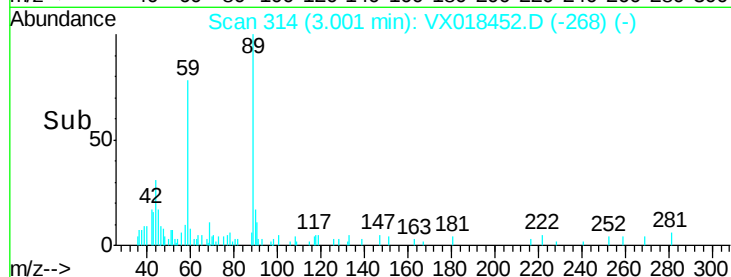
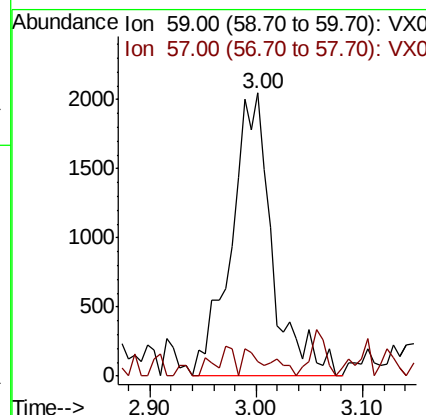
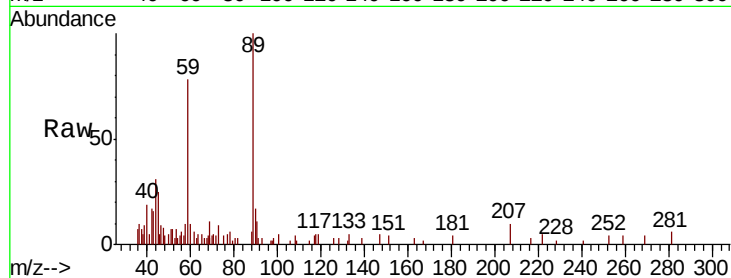


#11

Tert butyl alcohol
Concen: 4.545 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

Instrument :
MSVOA_X
ClientSampled :
B16-1-3

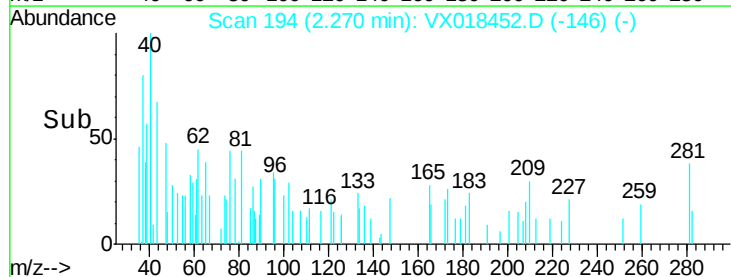
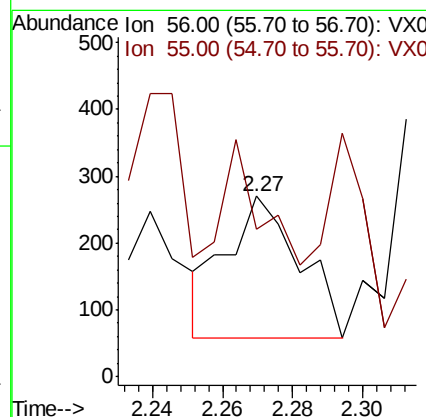
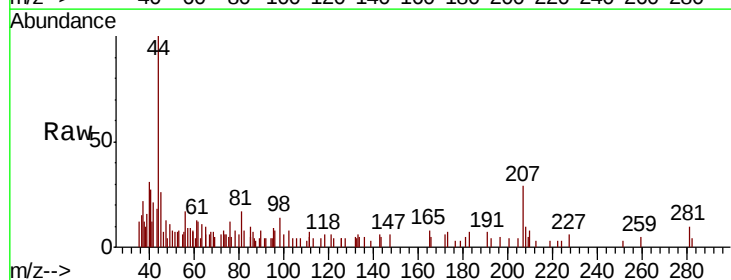
Tot Ion: 59 Resp: 5509
Ion Ratio Lower Upper
59 100
57 3.7 8.9 13.3#

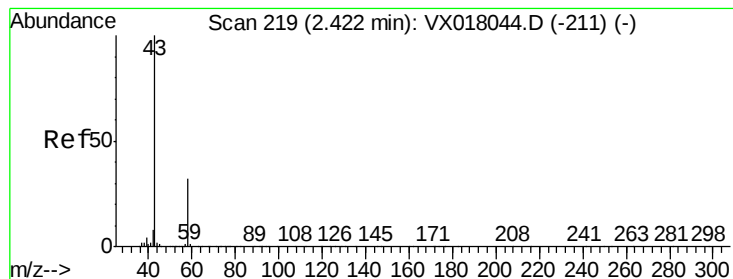


#13

Acrolein
Concen: 0.617 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

Tgt Ion: 56 Resp: 310
Ion Ratio Lower Upper
56 100
55 63.2 57.0 85.6





#16

Acetone

Concen: 1.252 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

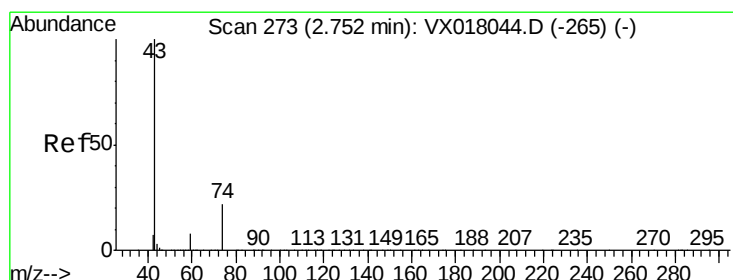
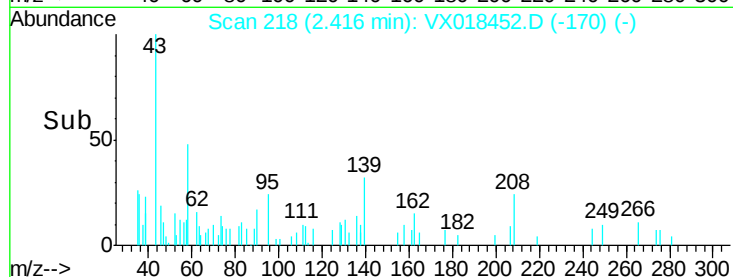
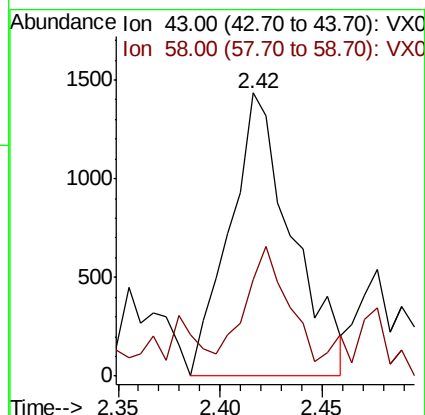
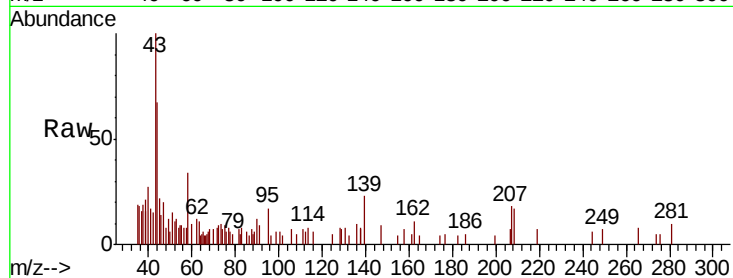
B16-1-3

Tot Ion: 43 Resp: 3040

Ion Ratio Lower Upper

43 100

58 19.6 25.5 38.3#



#18

Methyl Acetate

Concen: 0.245 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX018452.D

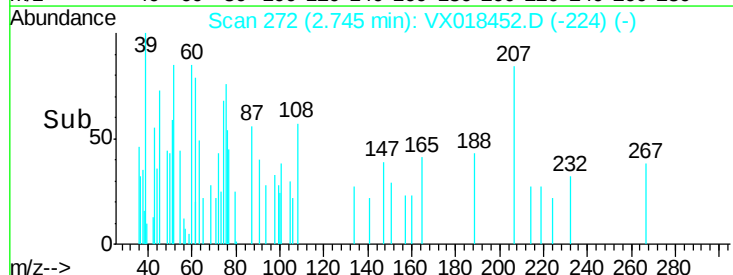
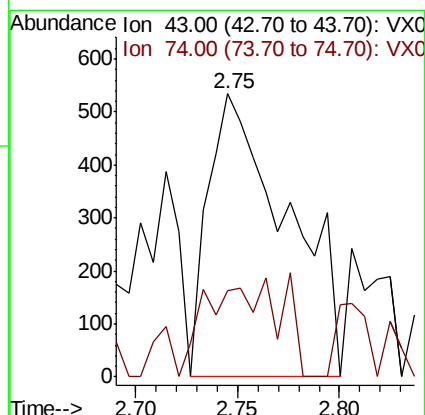
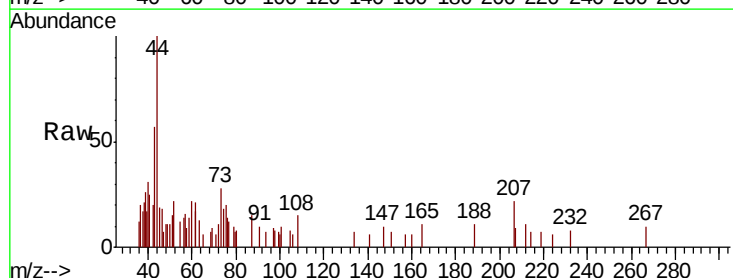
Acq: 16 Sep 2020 19:52

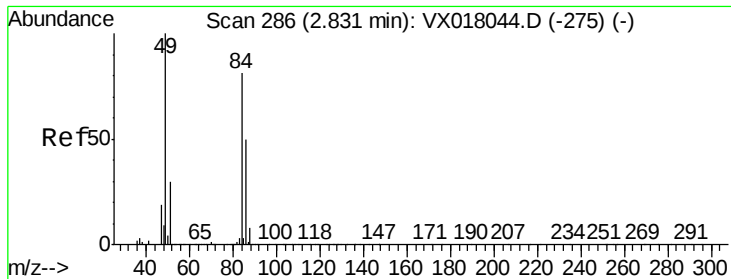
Tgt Ion: 43 Resp: 1434

Ion Ratio Lower Upper

43 100

74 20.4 18.2 27.4

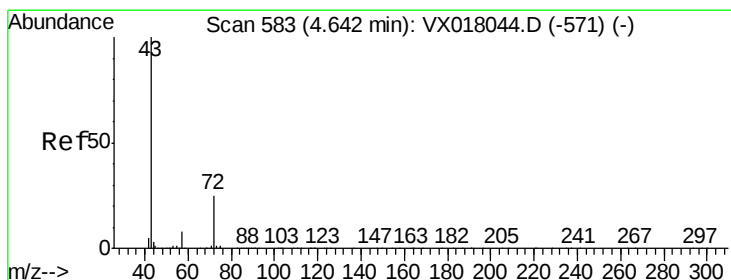
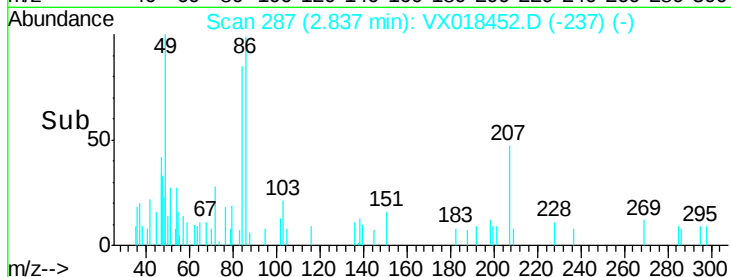
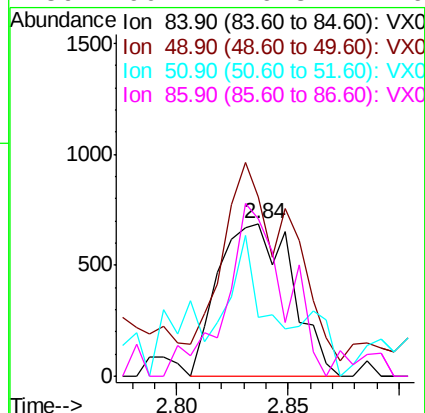
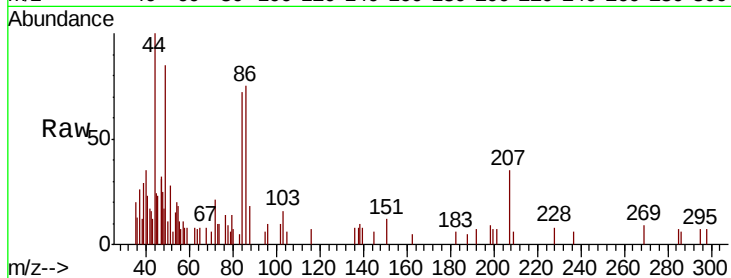




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

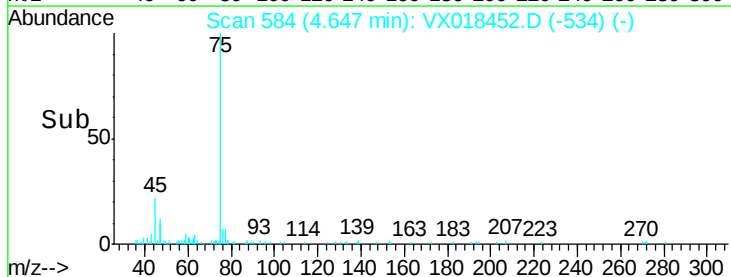
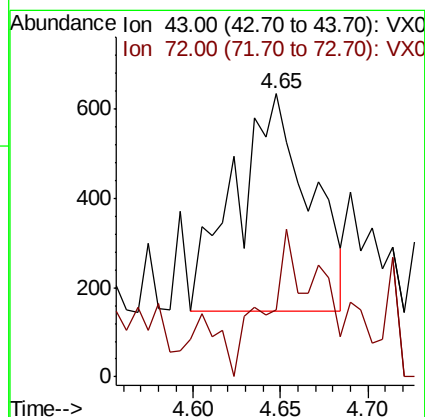
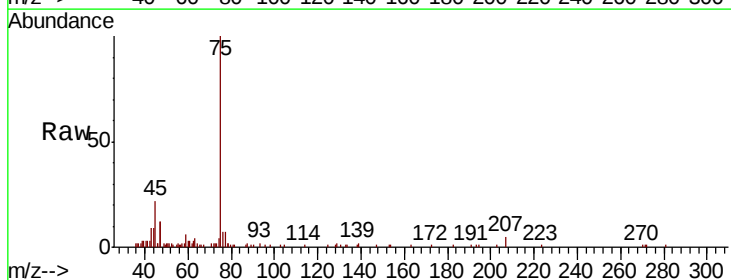
Instrument :
MSVOA_X
ClientSampled :
B16-1-3

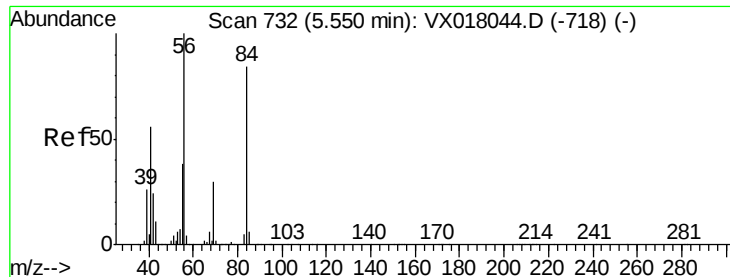
Tot Ion: 84 Resp: 1591
Ion Ratio Lower Upper
84 100
49 106.8 98.6 148.0
51 38.6 29.6 44.4
86 90.2 49.8 74.6#



#25
2-Butanone
Concen: 0.360 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

Tgt Ion: 43 Resp: 1438
Ion Ratio Lower Upper
43 100
72 12.3 19.8 29.6#

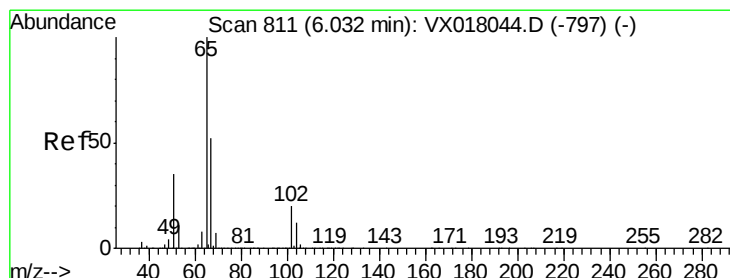
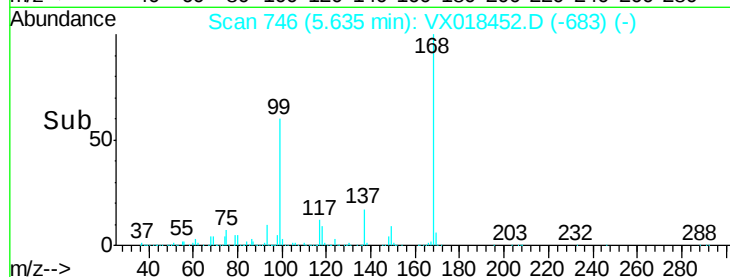
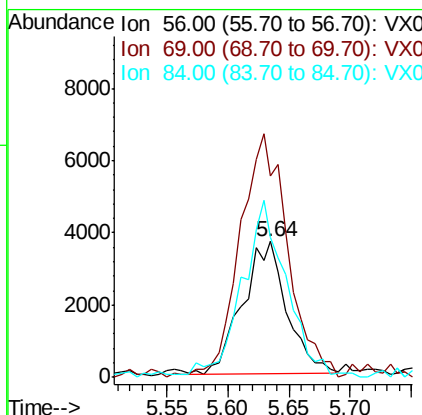
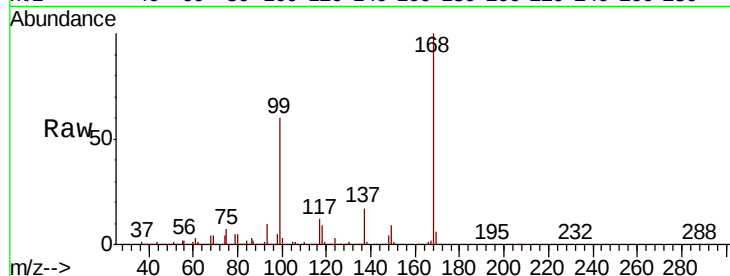




#31
Cyclohexane
Concen: 1.238 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

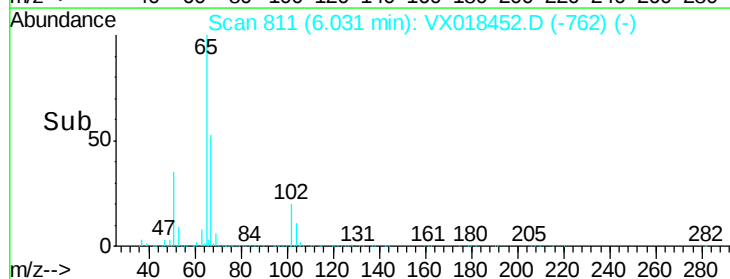
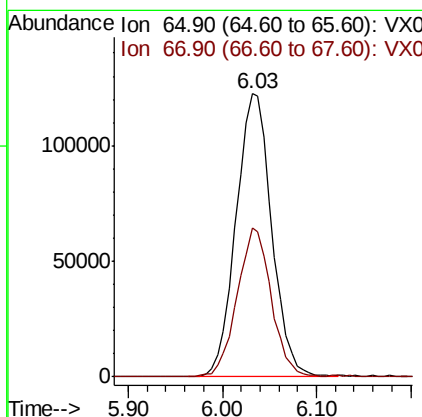
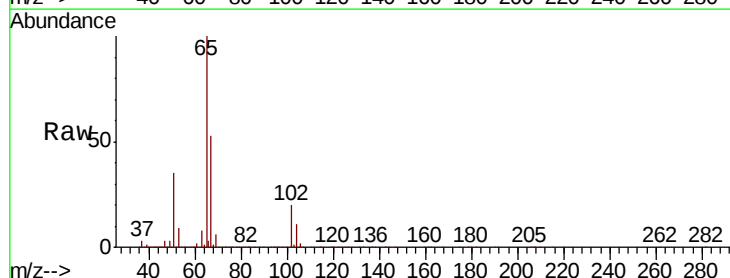
Instrument :
MSVOA_X
ClientSampled :
B16-1-3

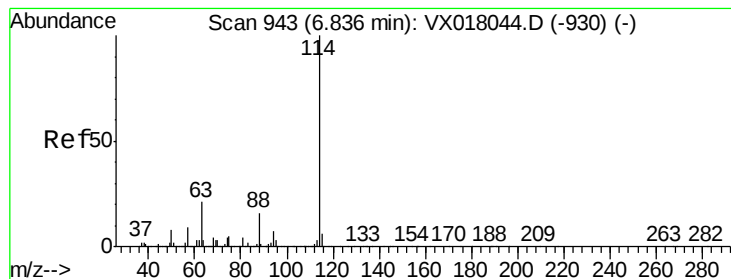
Tot Ion: 56 Resp: 9235
Ion Ratio Lower Upper
56 100
69 153.2 23.9 35.9#
84 104.5 67.0 100.4#



#33
1,2-Dichloroethane-d4
Concen: 51.829 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

Tgt Ion: 65 Resp: 323074
Ion Ratio Lower Upper
65 100
67 50.3 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

B16-1-3

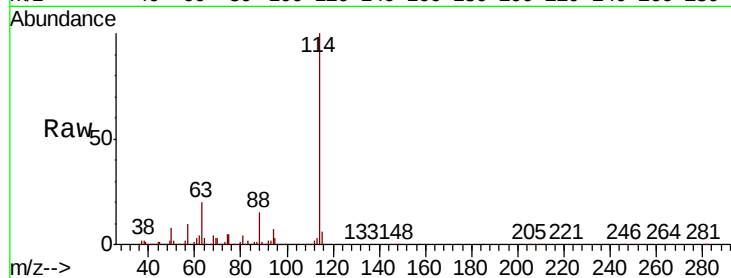
Tot Ion:114 Resp: 719027

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

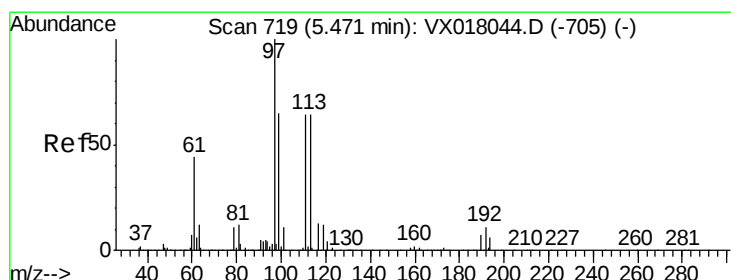
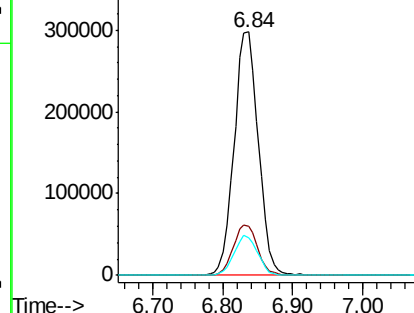
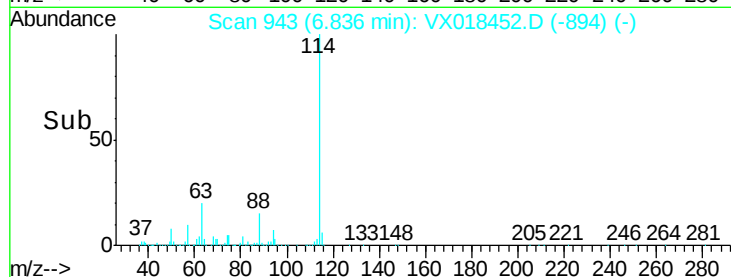
88 15.4 0.0 31.8



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: 51.500 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

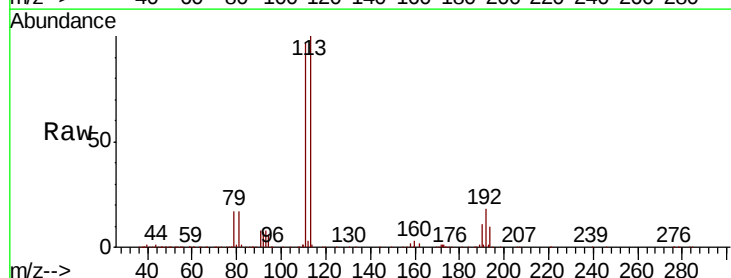
Tgt Ion:113 Resp: 252192

Ion Ratio Lower Upper

113 100

111 101.1 81.6 122.4

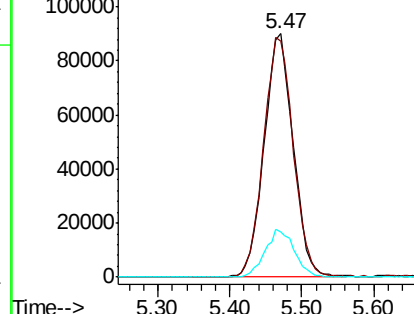
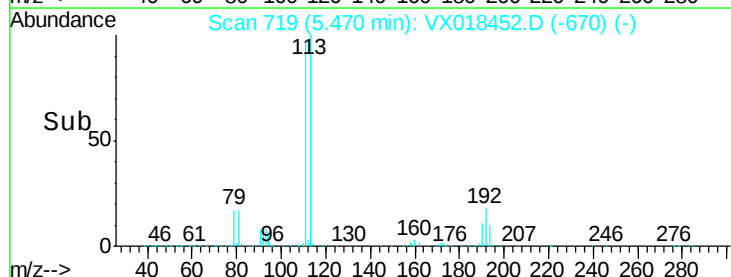
192 19.6 15.8 23.8

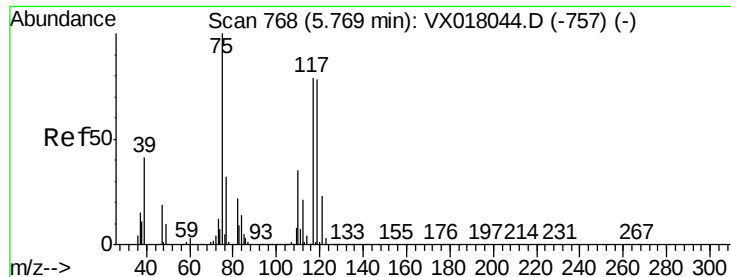


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

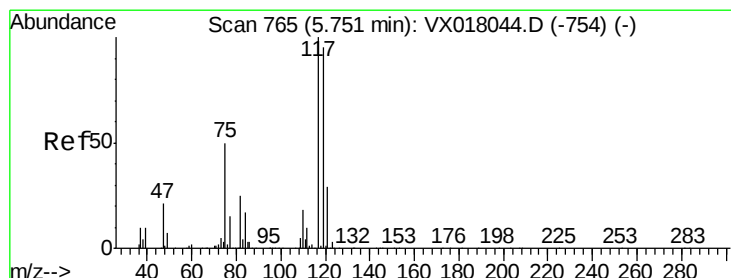
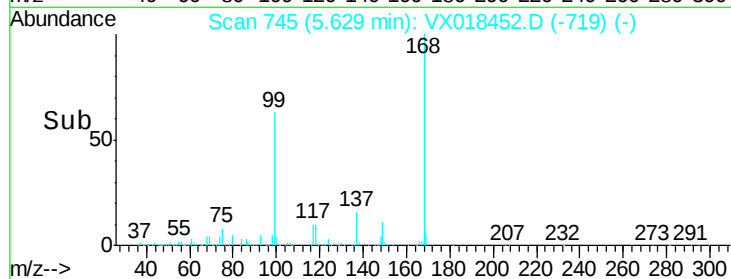
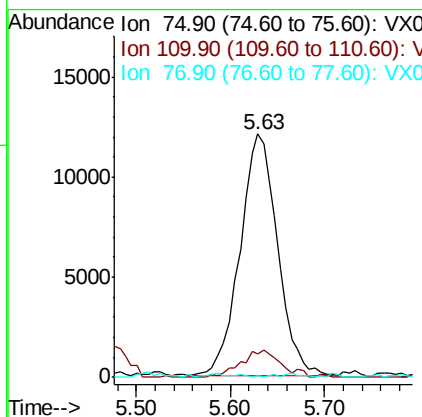
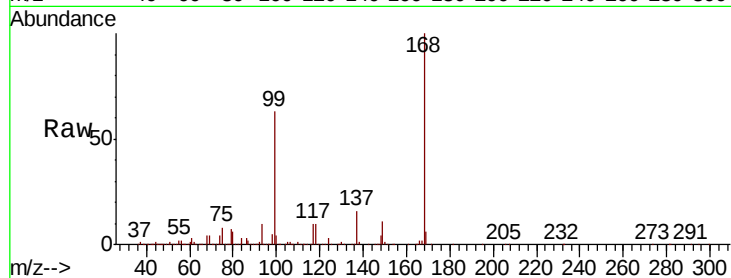




#36
 1,1-Dichloropropene
 Concen: 5.095 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018452.D
 Acq: 16 Sep 2020 19:52

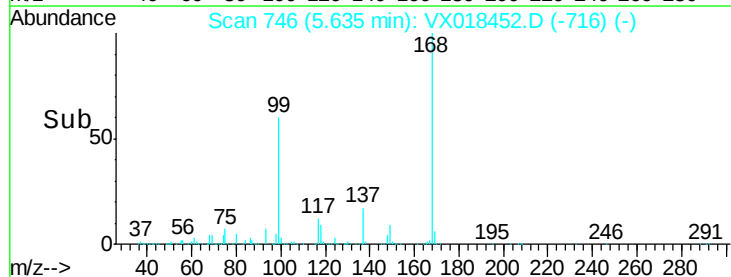
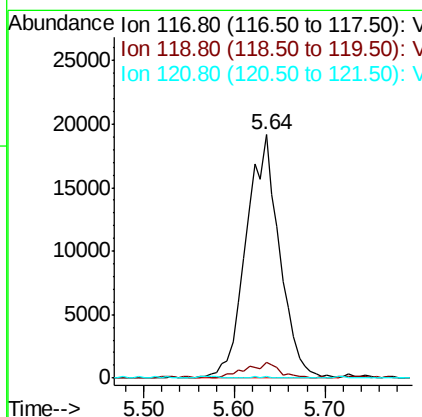
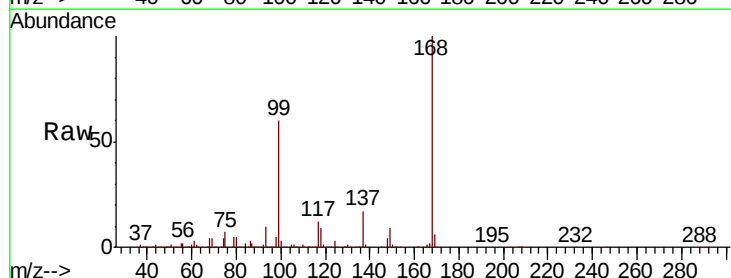
Instrument :
 MSVOA_X
 ClientSampleId :
 B16-1-3

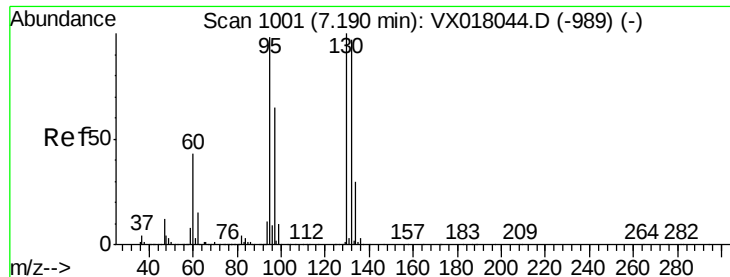
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.9	18.0	54.0#
77	0.3	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 6.546 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX018452.D
 Acq: 16 Sep 2020 19:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	75.8	113.6#
121	0.2	23.4	35.0#





#44

Trichloroethene

Concen: 0.476 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

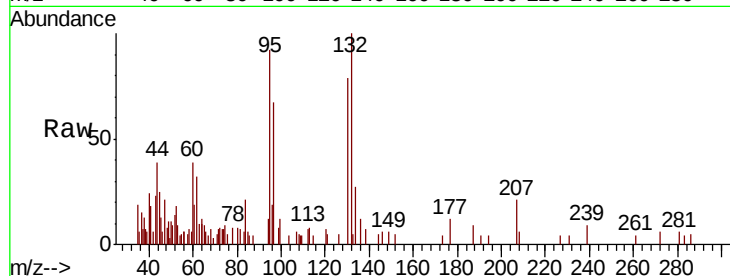
B16-1-3

Tot Ion:130 Resp: 2623

Ion Ratio Lower Upper

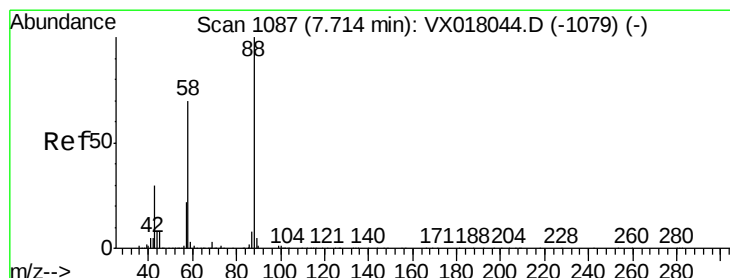
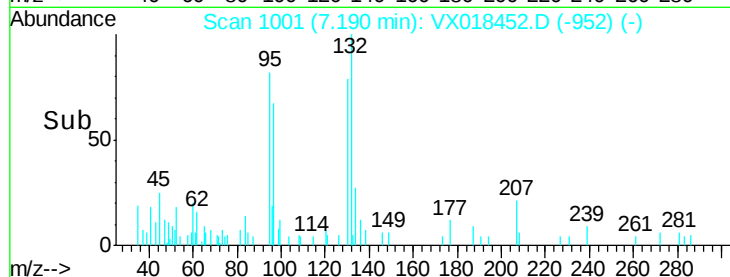
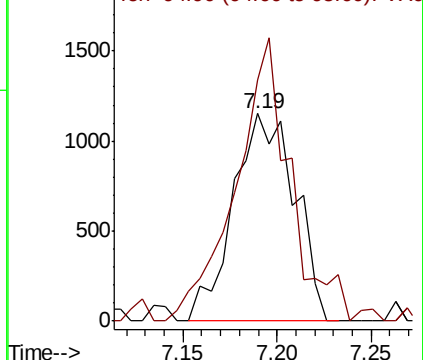
130 100

95 101.3 0.0 196.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.442 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

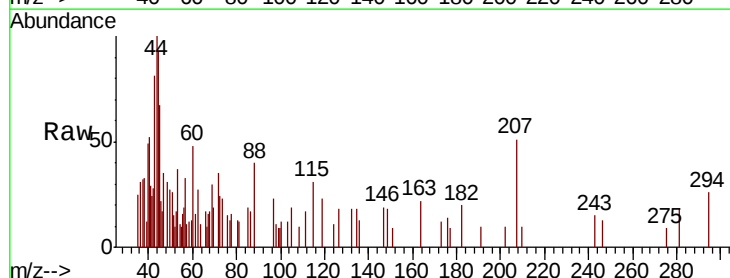
Tgt Ion: 88 Resp: 274

Ion Ratio Lower Upper

88 100

43 59.5 27.4 41.0#

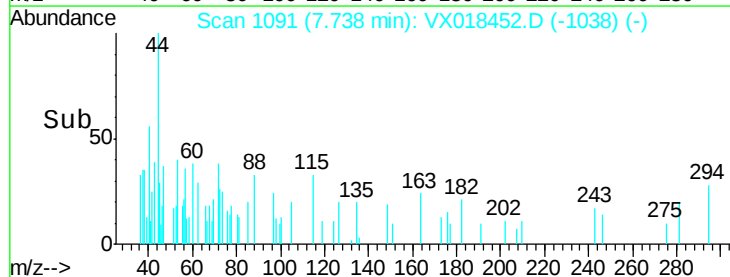
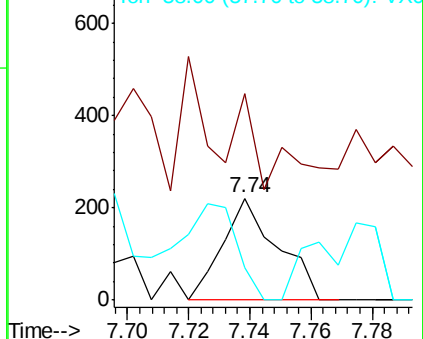
58 97.8 56.4 84.6#

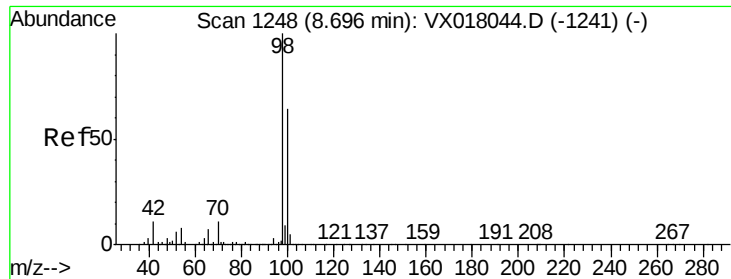


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.334 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

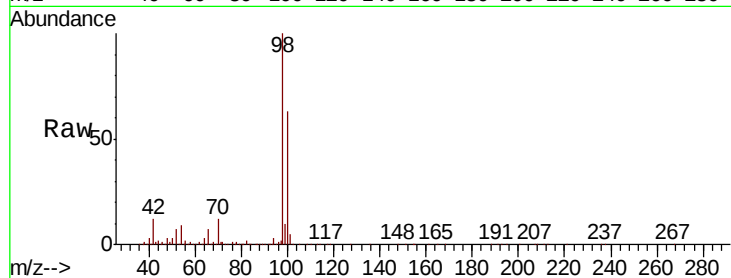
B16-1-3

Tot Ion: 98 Resp: 863323

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

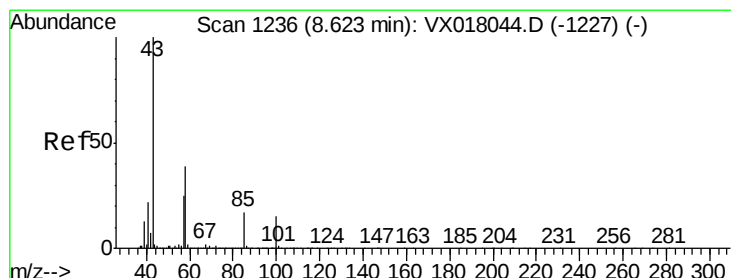
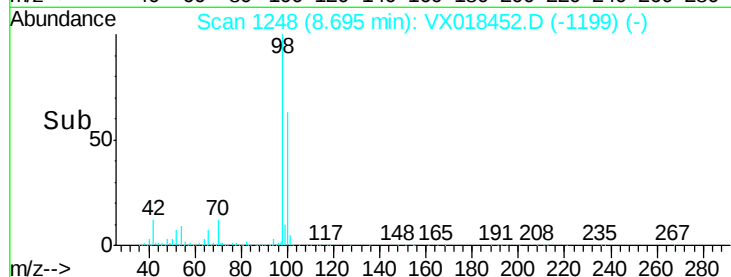
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.218 ug/l

RT: 8.63 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VX018452.D

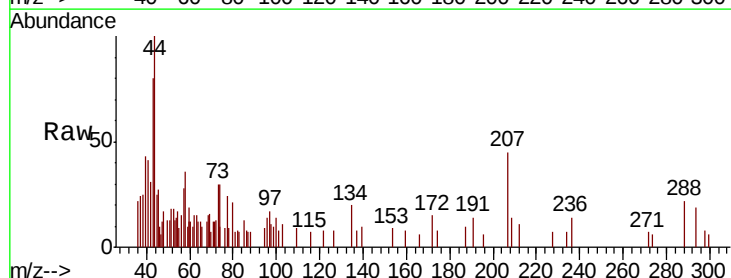
Acq: 16 Sep 2020 19:52

Tgt Ion: 43 Resp: 1677

Ion Ratio Lower Upper

43 100

58 41.7 30.7 46.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.63

1000

800

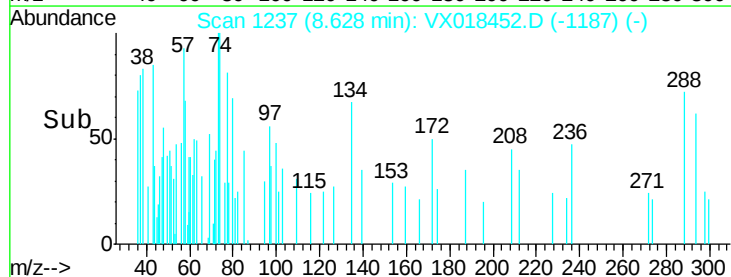
600

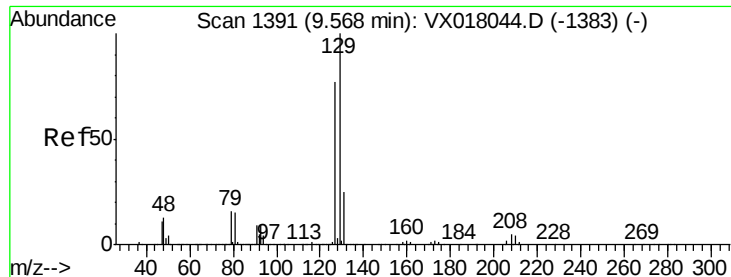
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 33.598 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

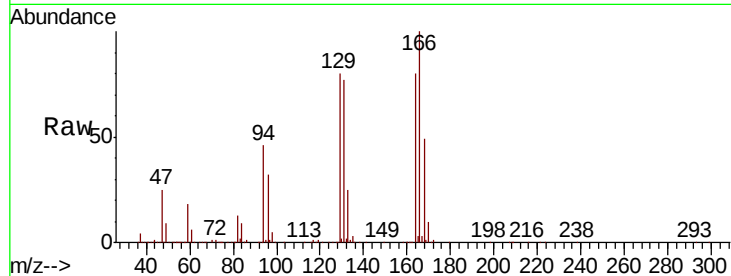
B16-1-3

Tot Ion:129 Resp: 207713

Ion Ratio Lower Upper

129 100

127 0.2 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

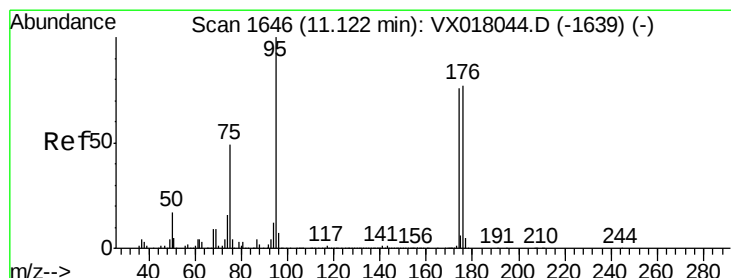
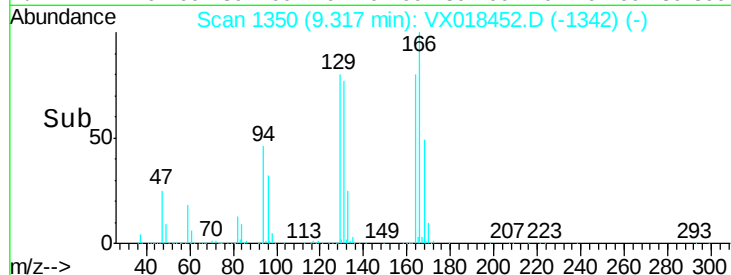
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.041 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

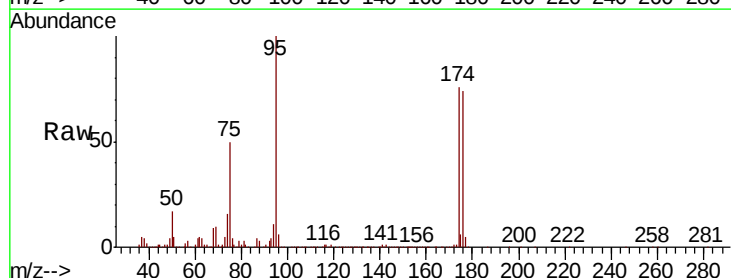
Tgt Ion: 95 Resp: 344741

Ion Ratio Lower Upper

95 100

174 78.7 0.0 160.2

176 75.0 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

400000

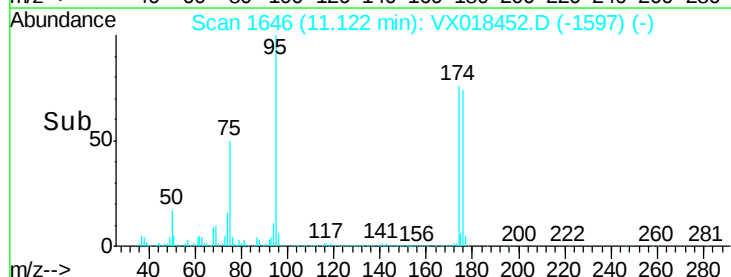
300000

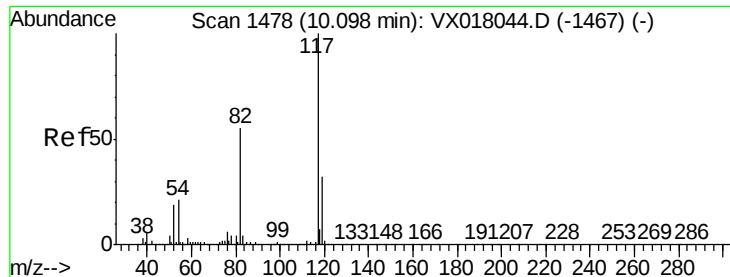
200000

100000

0

Time-->

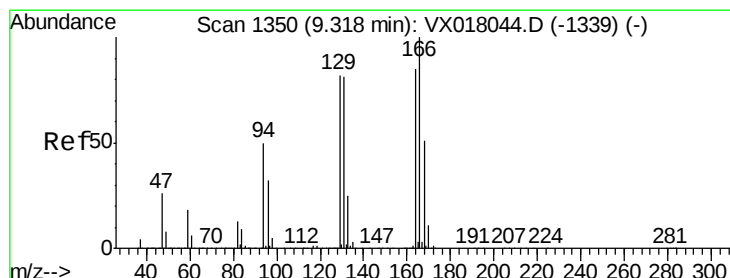
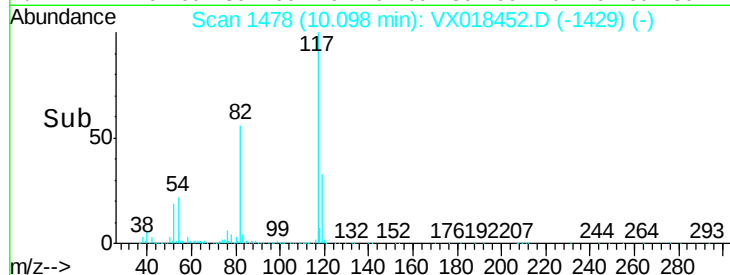
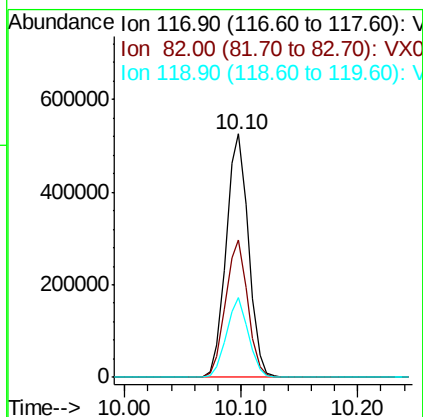
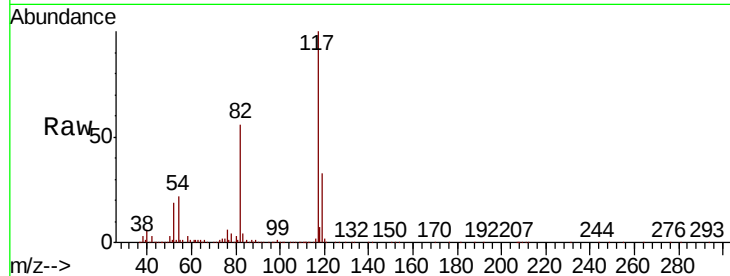




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

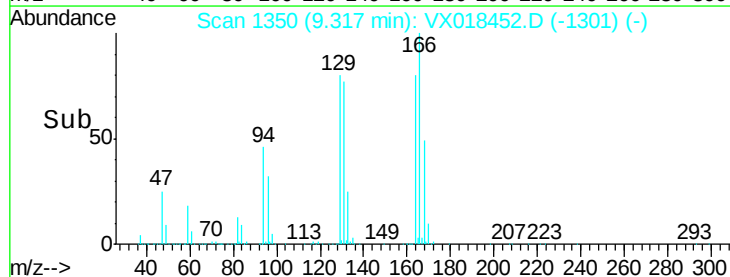
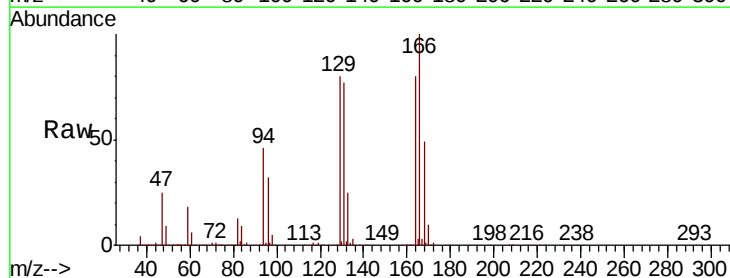
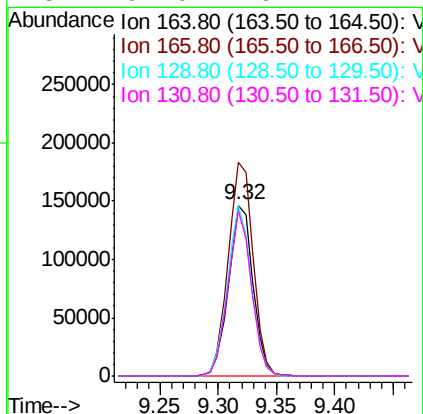
Instrument :
MSVOA_X
ClientSampleId :
B16-1-3

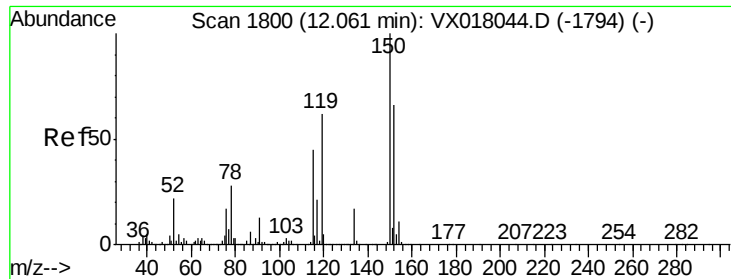
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.2	66.2
119	32.8	25.7	38.5



#64
Tetrachloroethene
Concen: 41.621 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX018452.D
Acq: 16 Sep 2020 19:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.4	94.2	141.2
129	99.8	76.9	115.3
131	97.0	76.1	114.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampled :

B16-1-3

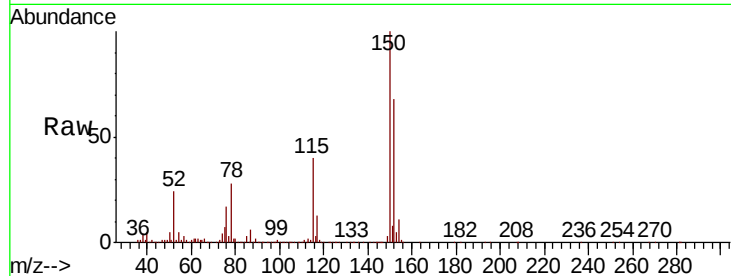
Tot Ion:152 Resp: 356467

Ion Ratio Lower Upper

152 100

115 58.1 41.5 124.5

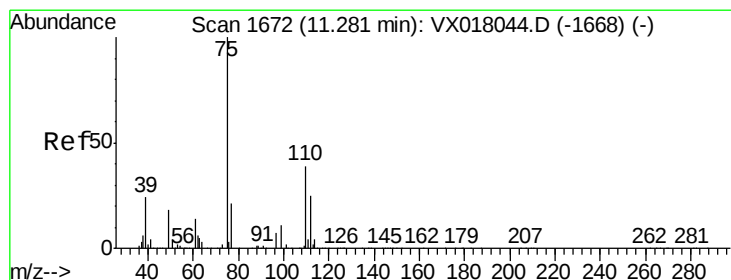
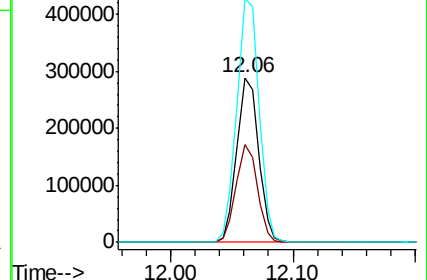
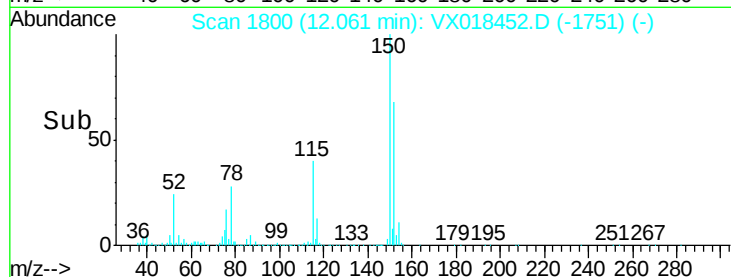
150 150.9 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.103 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018452.D

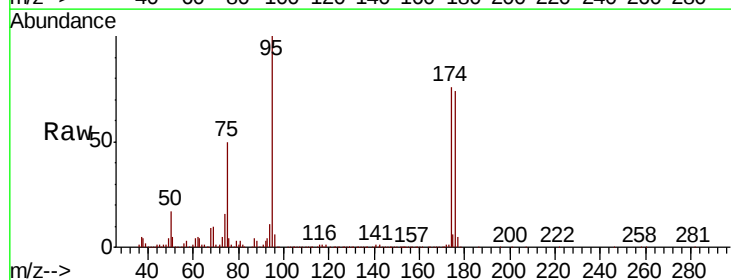
Acq: 16 Sep 2020 19:52

Tgt Ion: 75 Resp: 175268

Ion Ratio Lower Upper

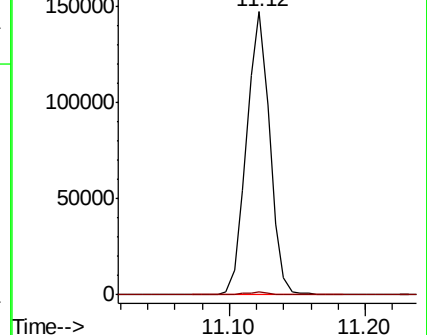
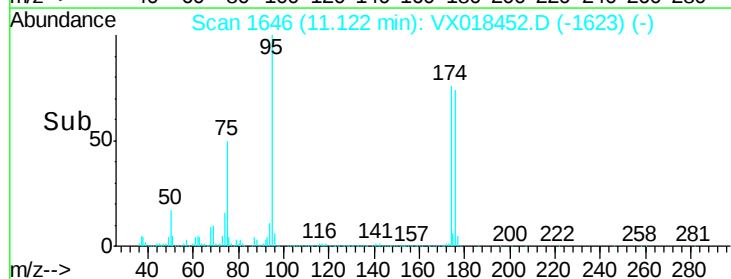
75 100

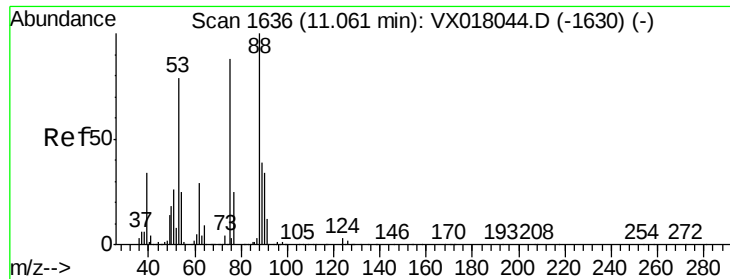
77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.695 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018452.D

Acq: 16 Sep 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

B16-1-3

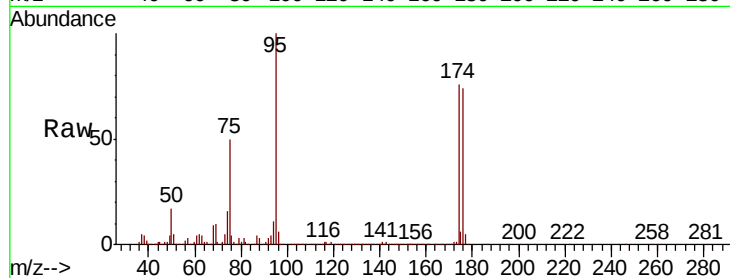
Tot Ion: 75 Resp: 175268

Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

89 0.1 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
200000 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-->

11.10

11.20

