

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091620\
 Data File : VX018443.D
 Acq On : 16 Sep 2020 16:27
 Operator : JC/SP
 Sample : L3988-26
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP05-20200910

Quant Time: Sep 17 04:20:57 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	430278	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	693667	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	676918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	339416	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	314193	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
35) Dibromofluoromethane	5.47	113	240676	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
50) Toluene-d8	8.70	98	844686	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
62) 4-Bromofluorobenzene	11.12	95	325274	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	

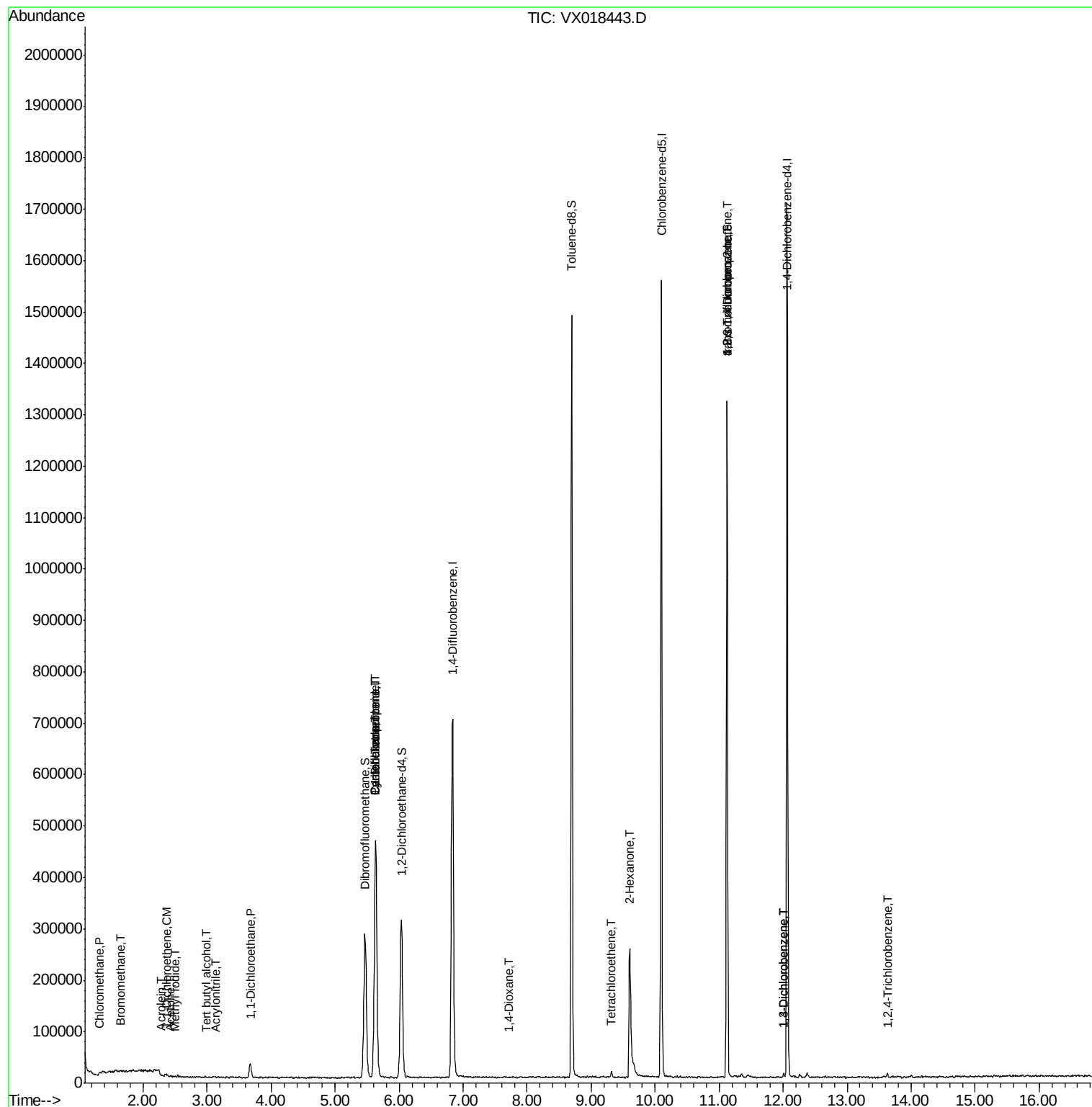
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1225	0.222	ug/l	96
5) Bromomethane	1.65	94	686	0.259	ug/l #	67
10) Methyl Iodide	2.50	142	281	5.345	ug/l #	75
11) Tert butyl alcohol	3.00	59	556	0.479	ug/l #	71
12) 1,1-Dichloroethene	2.36	96	2790	0.664	ug/l #	90
13) Acrolein	2.28	56	390	0.810	ug/l	90
15) Acrylonitrile	3.12	53	599	0.227	ug/l #	26
16) Acetone	2.42	43	2484	1.067	ug/l #	56
20) Methylene Chloride	2.83	84	679	Below Cal	#	76
24) 1,1-Dichloroethane	3.67	63	30303	3.570	ug/l	97
31) Cyclohexane	5.63	56	9233	1.291	ug/l #	7
36) 1,1-Dichloropropene	5.63	75	34755	5.432	ug/l #	53
38) Carbon Tetrachloride	5.63	117	47501	6.588	ug/l #	18
49) 1,4-Dioxane	7.71	88	180	1.663	ug/l #	51
59) 2-Hexanone	9.60	43	66074	11.721	ug/l #	39
64) Tetrachloroethene	9.32	164	1992	0.400	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	169289	22.421	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	169289	60.556	ug/l #	12
87) 1,3-Dichlorobenzene	12.01	146	2593	0.239	ug/l	94
88) 1,4-Dichlorobenzene	12.01	146	2593	0.238	ug/l	94
93) 1,2,4-Trichlorobenzene	13.63	180	2173	0.319	ug/l #	89

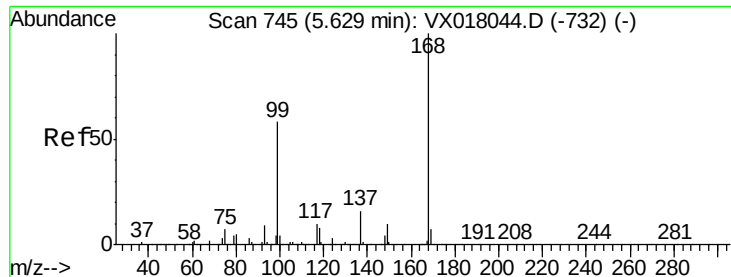
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Sep 17 04:20:57 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration

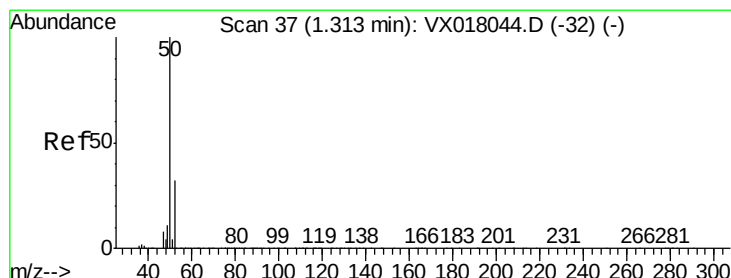
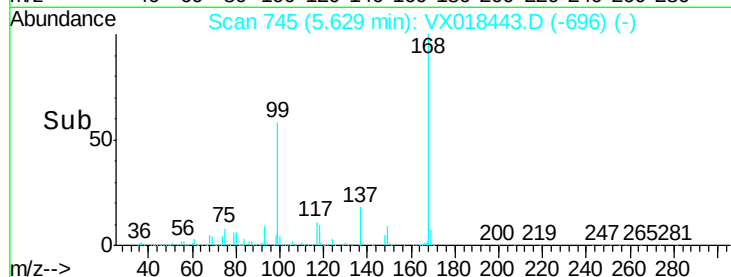
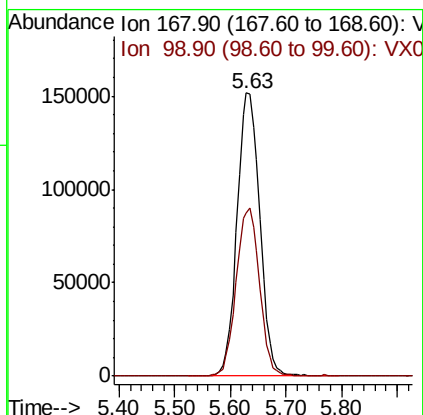
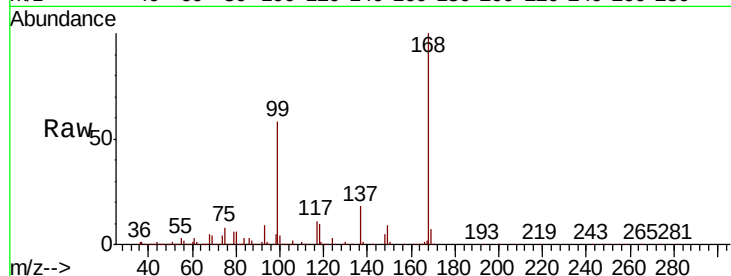




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.00 min
Lab File: VX018443.D
Acq: 16 Sep 2020 16:27

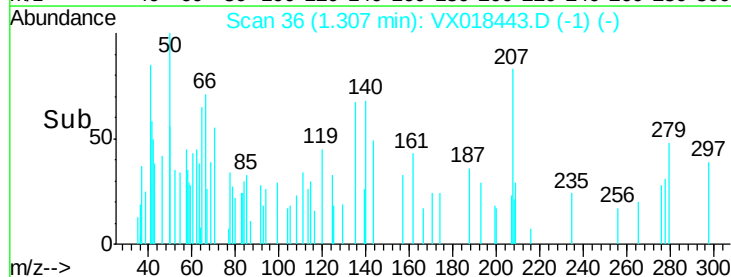
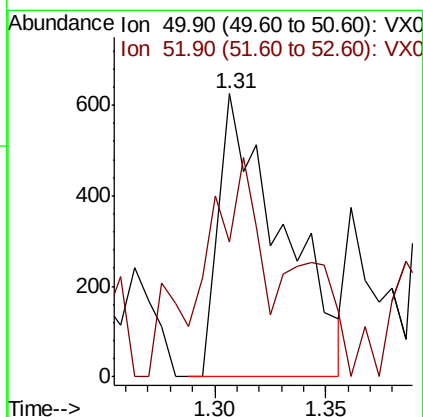
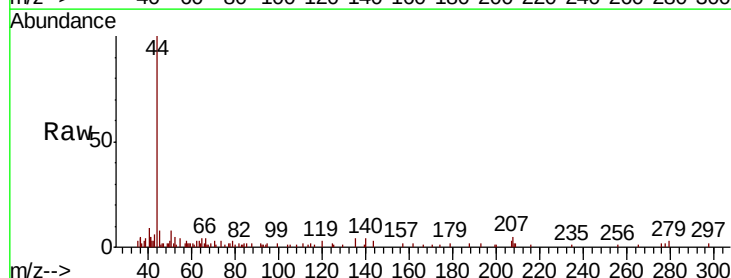
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP05-20200910

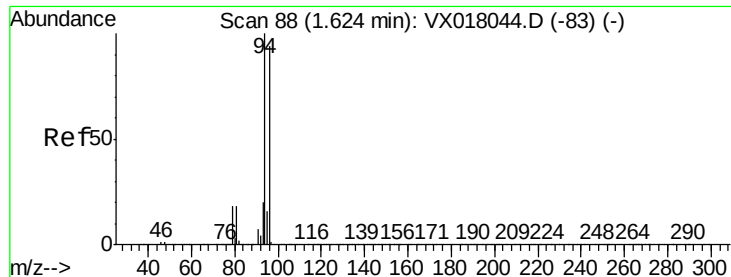
Tot Ion:168 Resp: 430278
Ion Ratio Lower Upper
168 100
99 57.8 46.3 69.5



#3
Chloromethane
Concen: 0.222 ug/l
RT: 1.31 min Scan# 36
Delta R.T. -0.01 min
Lab File: VX018443.D
Acq: 16 Sep 2020 16:27

Tgt Ion: 50 Resp: 1225
Ion Ratio Lower Upper
50 100
52 29.6 25.4 38.2





#5

Bromomethane

Concen: 0.259 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

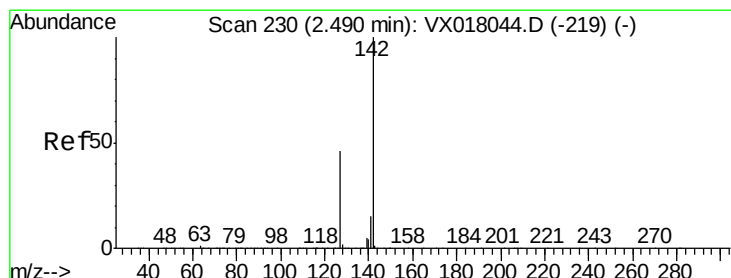
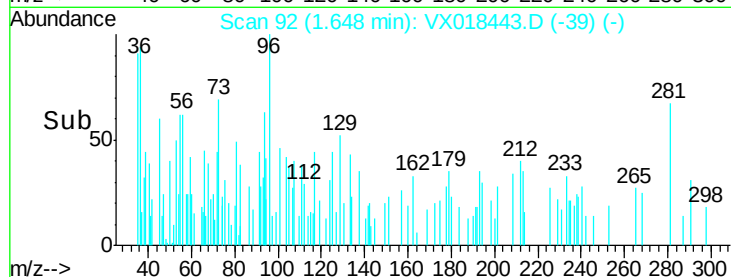
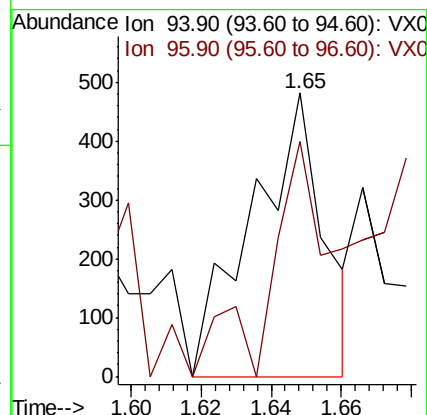
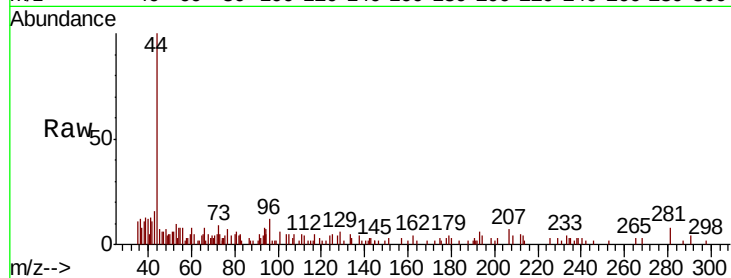
SA-DUP05-20200910

Tot Ion: 94 Resp: 686

Ion Ratio Lower Upper

94 100

96 61.7 74.8 112.2#



#10

Methyl Iodide

Concen: 5.345 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

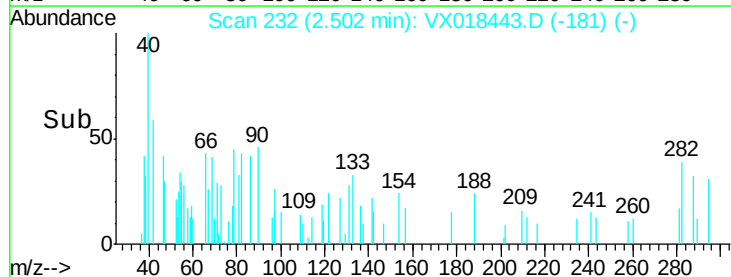
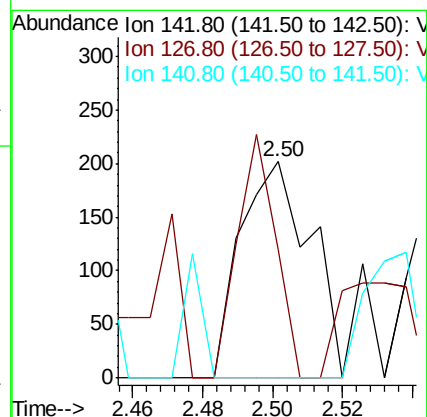
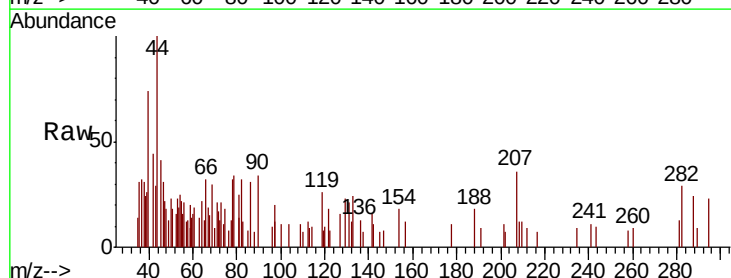
Tgt Ion: 142 Resp: 281

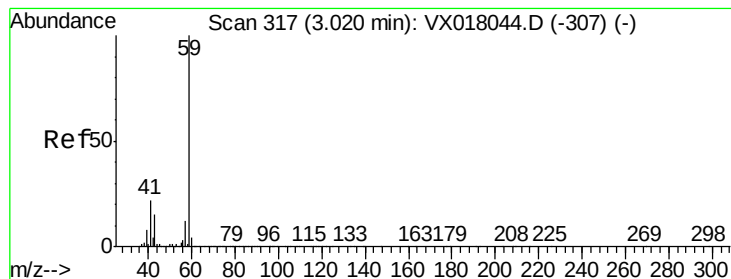
Ion Ratio Lower Upper

142 100

127 61.2 37.0 55.6#

141 0.0 11.5 17.3#



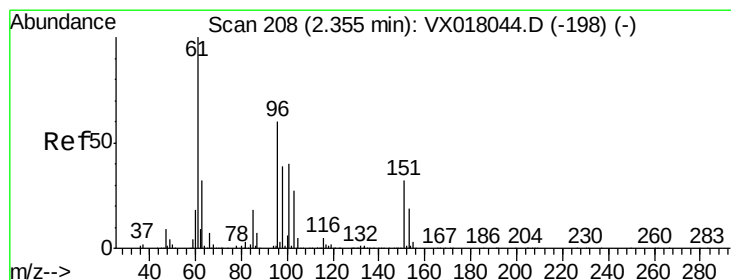
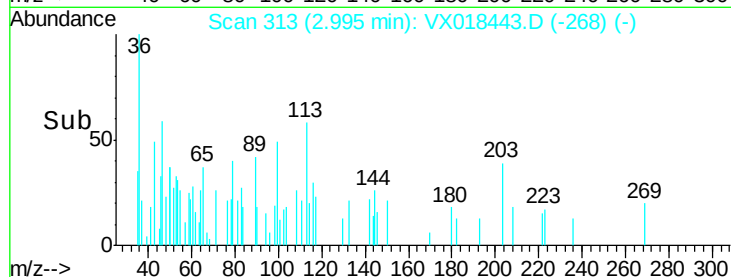
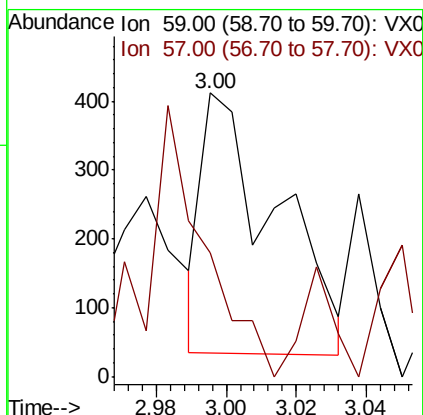
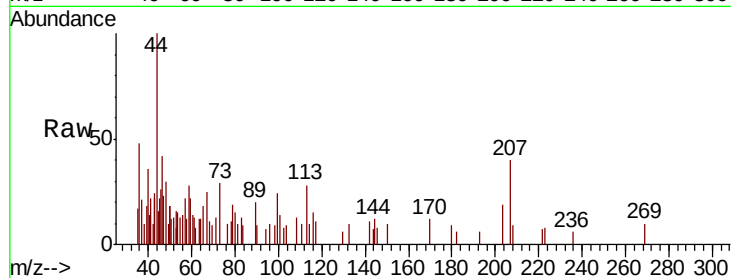


#11

Tert butyl alcohol
Concen: 0.479 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX018443.D
Acq: 16 Sep 2020 16:27

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP05-20200910

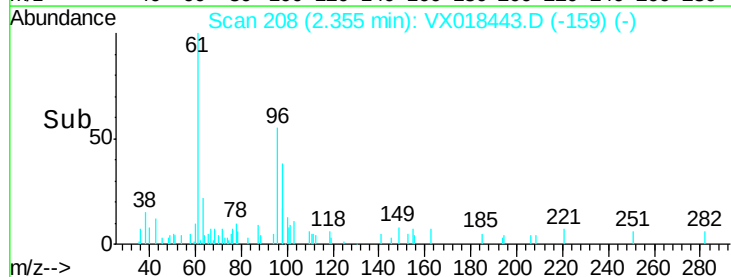
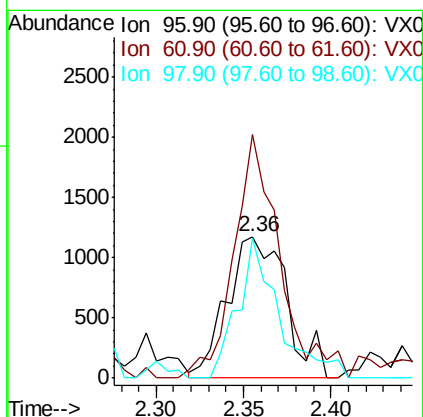
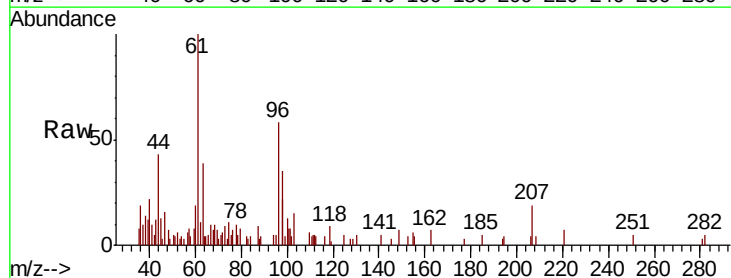
Tot Ion: 59 Resp: 556
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

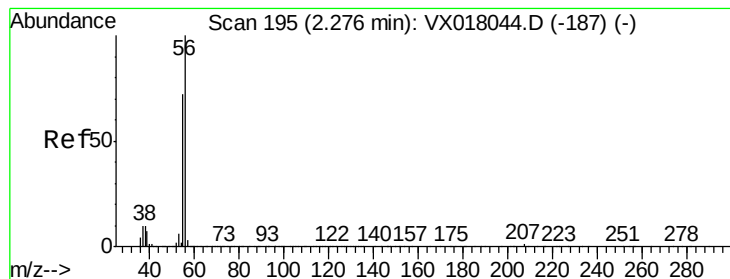


#12

1,1-Dichloroethene
Concen: 0.664 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX018443.D
Acq: 16 Sep 2020 16:27

Tgt Ion: 96 Resp: 2790
Ion Ratio Lower Upper
96 100
61 166.6 133.0 199.4
98 91.1 51.6 77.4#





#13

Acrolein

Concen: 0.810 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

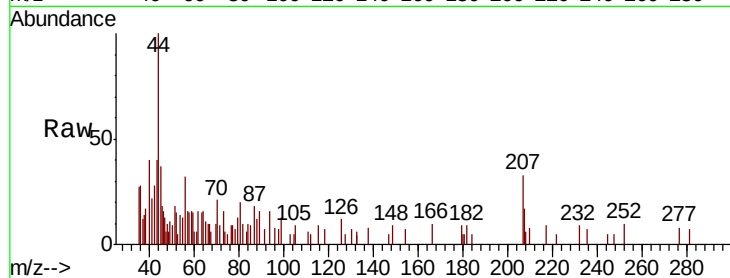
SA-DUP05-20200910

Tot Ion: 56 Resp: 390

Ion Ratio Lower Upper

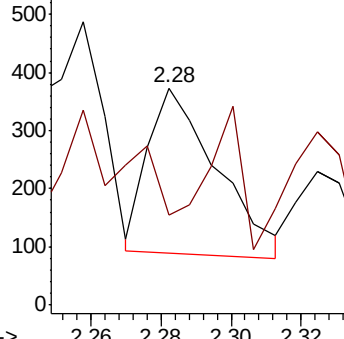
56 100

55 79.5 57.0 85.6

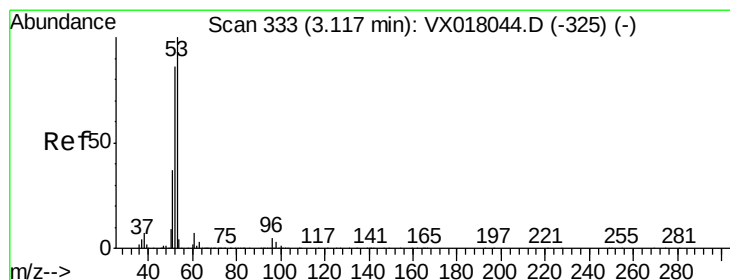
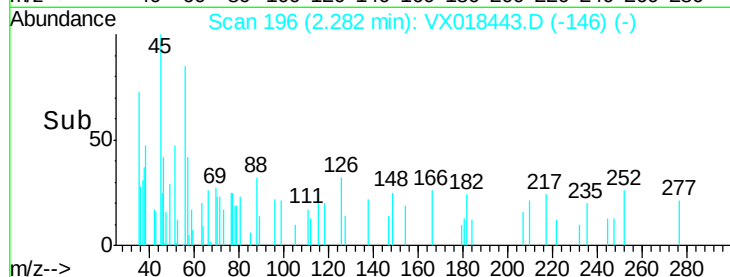


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.227 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

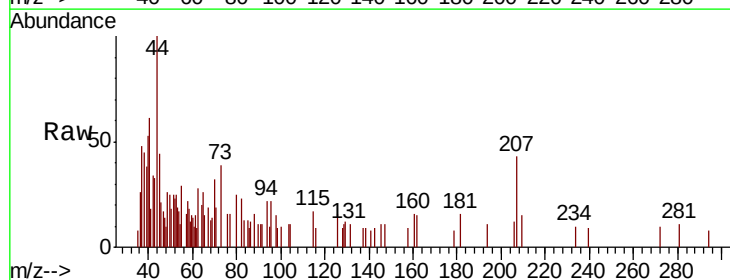
Tgt Ion: 53 Resp: 599

Ion Ratio Lower Upper

53 100

52 23.0 66.9 100.3#

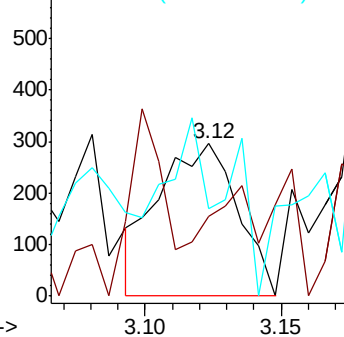
51 88.8 28.7 43.1#



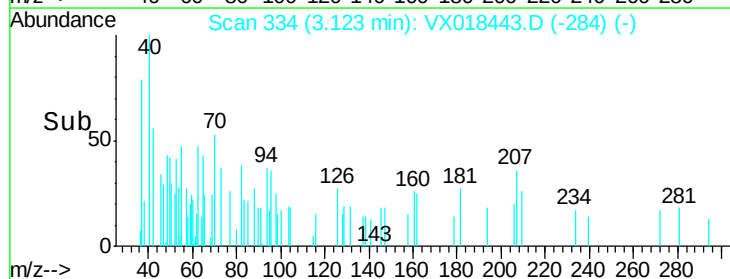
Abundance Ion 53.00 (52.70 to 53.70): VX0

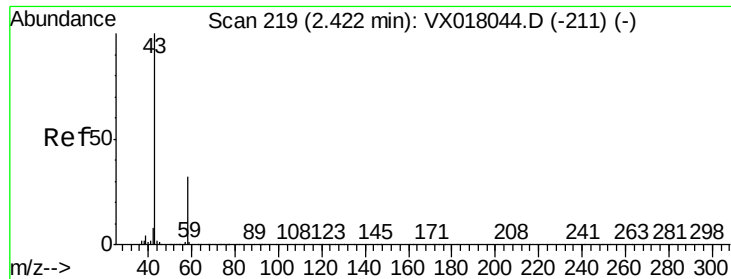
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->

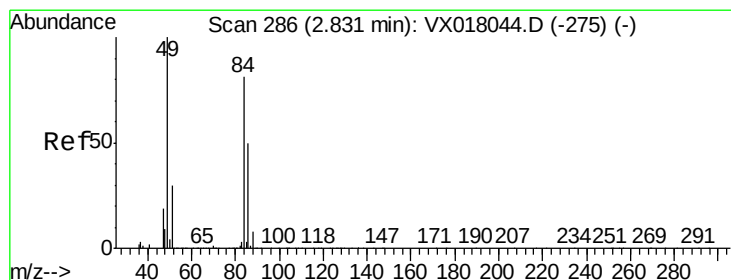
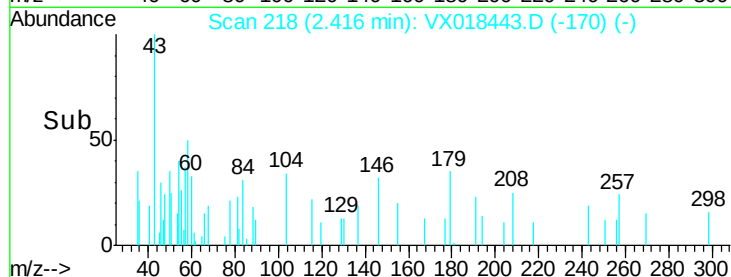
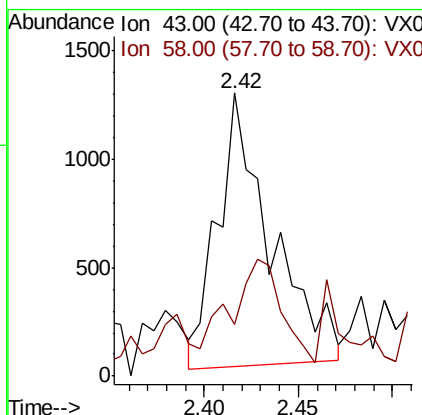
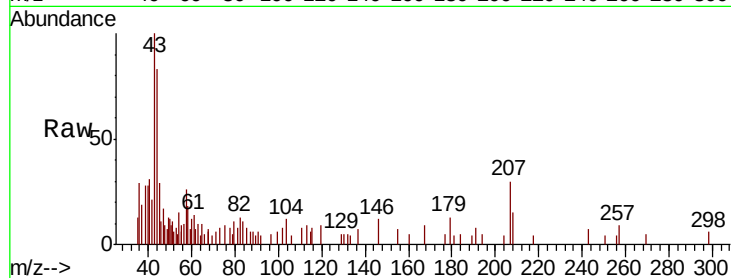




#16
Acetone
Concen: 1.067 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX018443.D
Acq: 16 Sep 2020 16:27

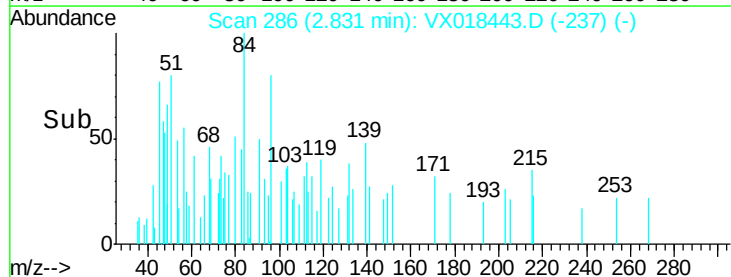
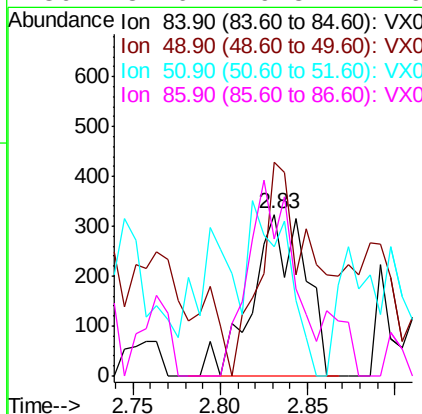
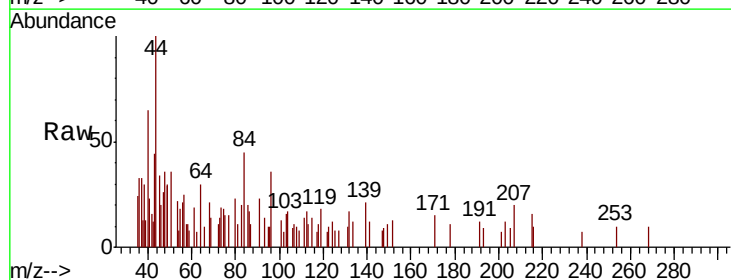
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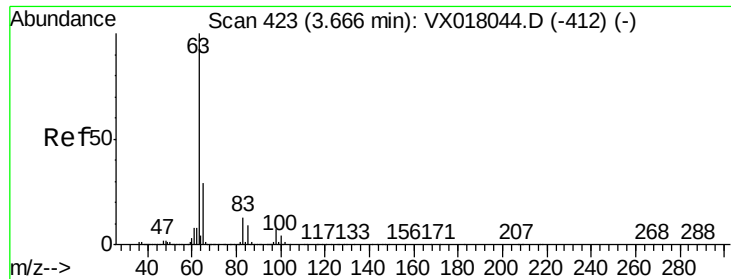
Tot Ion: 43 Resp: 2484
Ion Ratio Lower Upper
43 100
58 7.2 25.5 38.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018443.D
Acq: 16 Sep 2020 16:27

Tgt Ion: 84 Resp: 679
Ion Ratio Lower Upper
84 100
49 97.8 98.6 148.0#
51 23.5 29.6 44.4#
86 84.6 49.8 74.6#





#24

1,1-Dichloroethane

Concen: 3.570 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP05-20200910

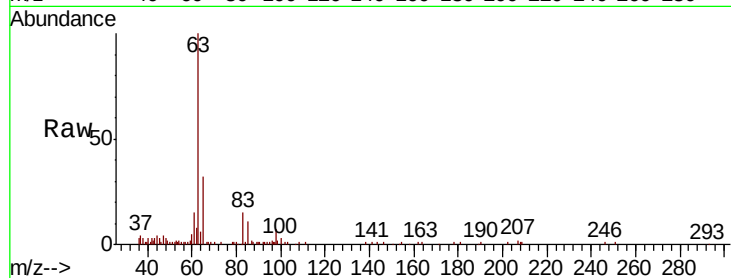
Tot Ion: 63 Resp: 30303

Ion Ratio Lower Upper

63 100

98 6.5 3.6 10.8

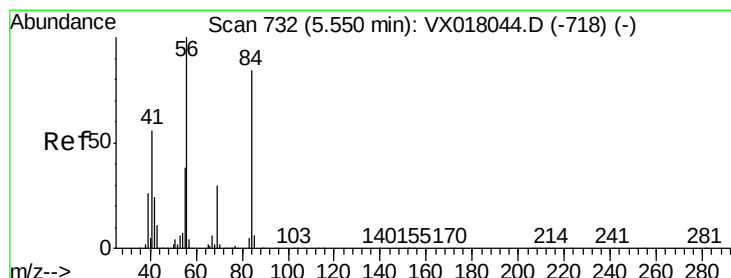
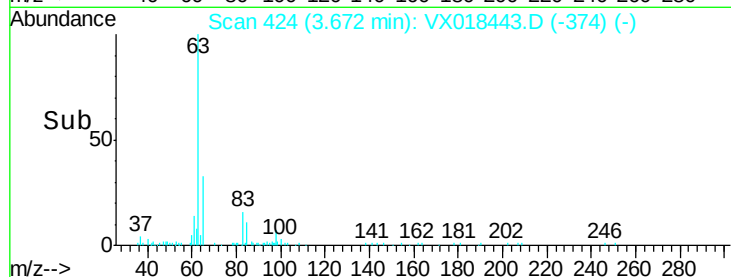
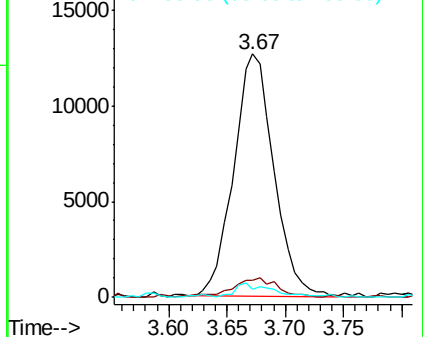
100 2.6 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#31

Cyclohexane

Concen: 1.291 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

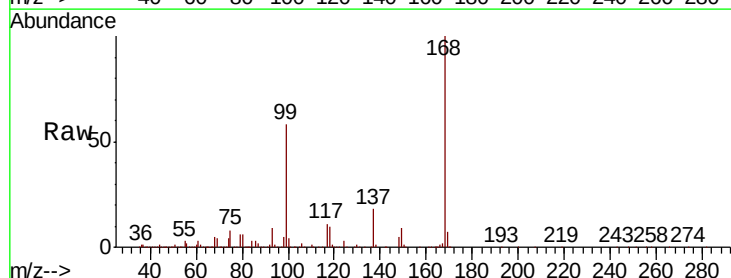
Tgt Ion: 56 Resp: 9233

Ion Ratio Lower Upper

56 100

69 160.4 23.9 35.9#

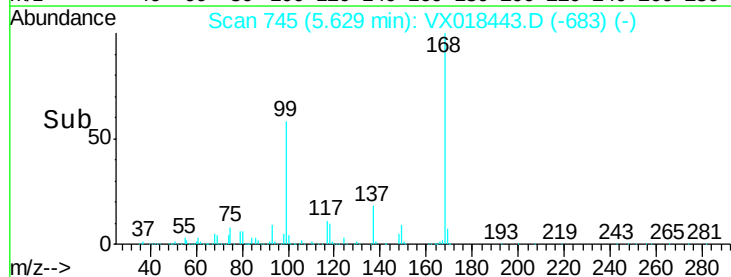
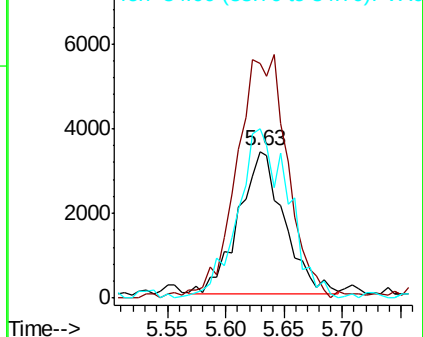
84 119.8 67.0 100.4#

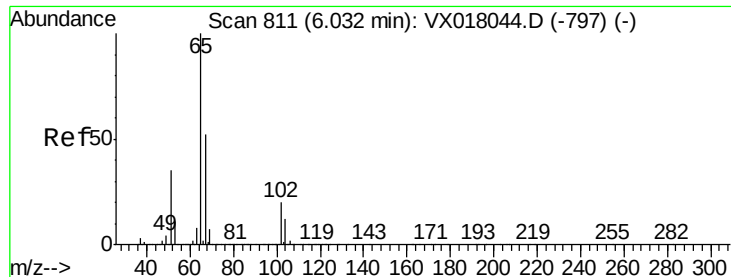


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

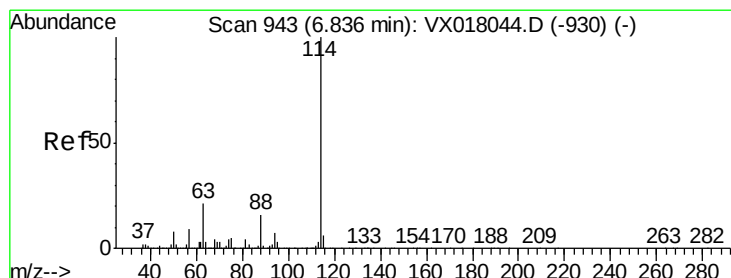
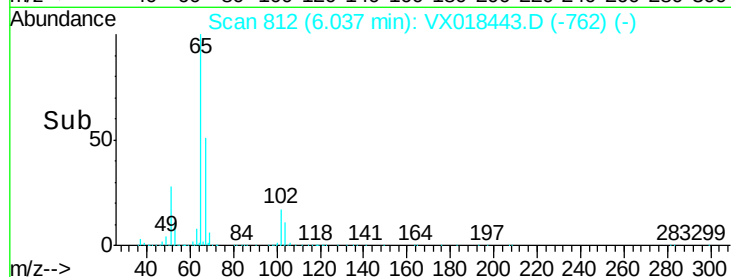
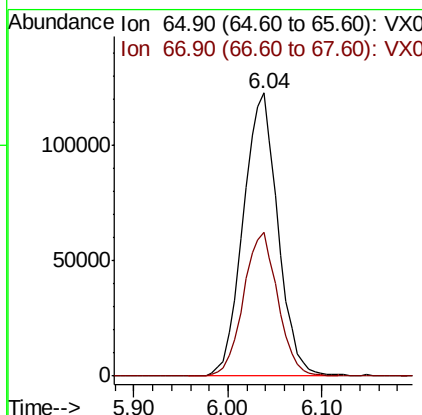
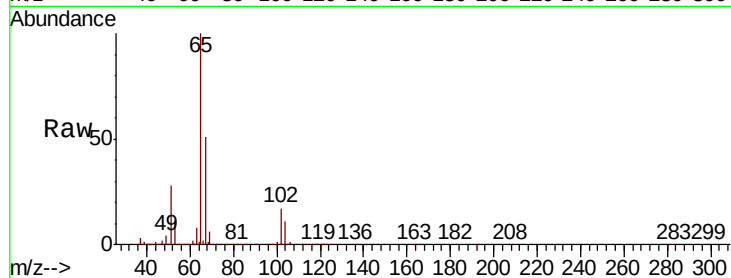




#33
 1,2-Dichloroethane-d4
 Concen: 52.599 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX018443.D
 Acq: 16 Sep 2020 16:27

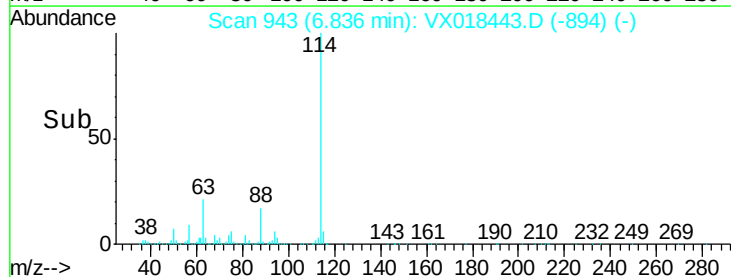
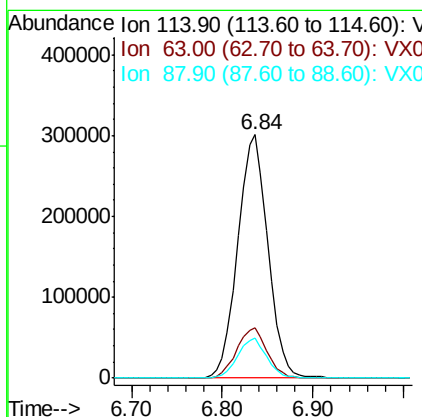
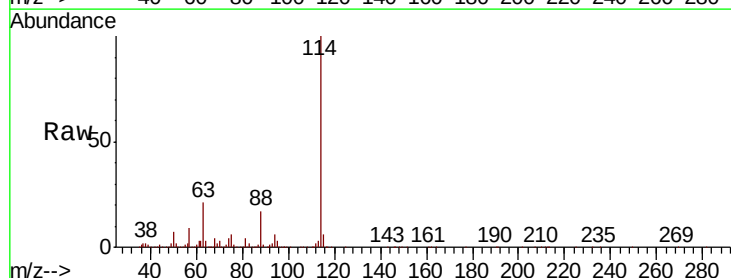
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP05-20200910

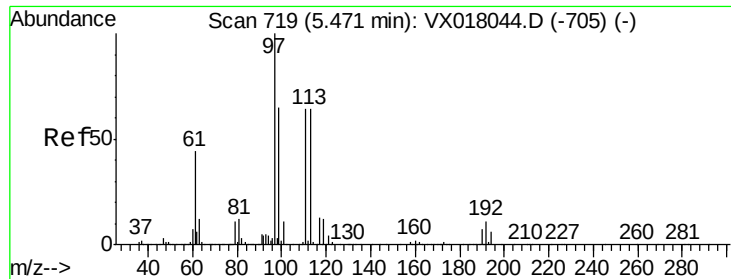
Tot Ion: 65 Resp: 314193
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: VX018443.D
 Acq: 16 Sep 2020 16:27

Tgt Ion: 114 Resp: 693667
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.6
 88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.945 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP05-20200910

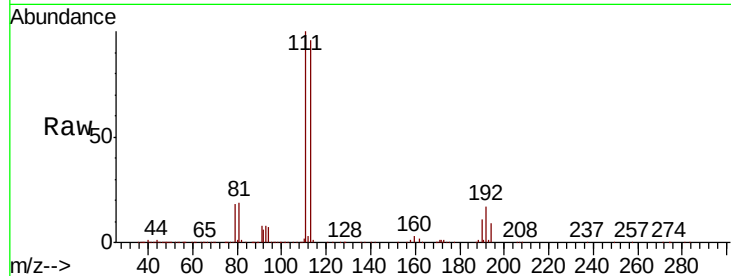
Tot Ion:113 Resp: 240676

Ion Ratio Lower Upper

113 100

111 103.0 81.6 122.4

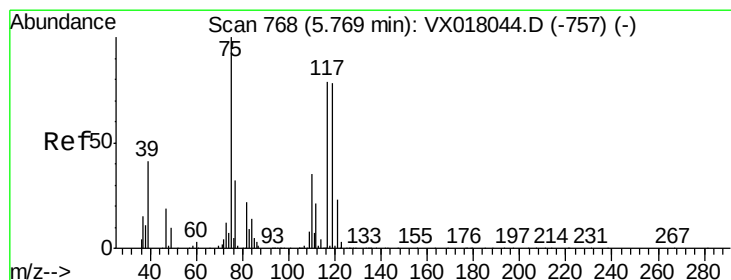
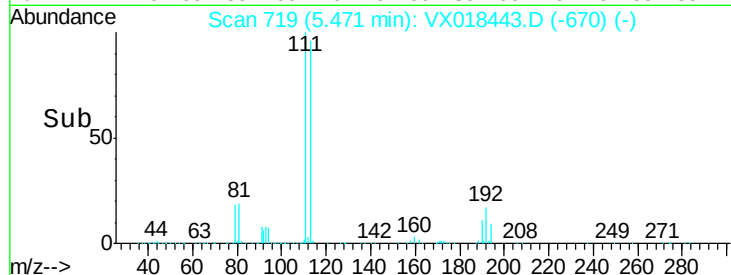
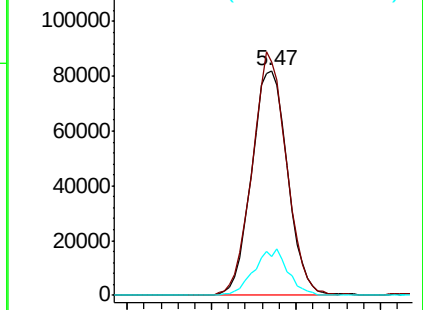
192 19.3 15.8 23.8



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: 5.432 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

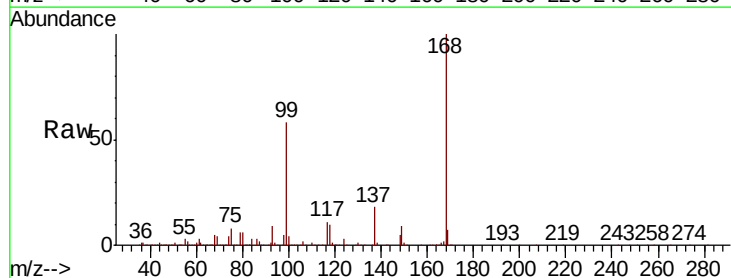
Tgt Ion: 75 Resp: 34755

Ion Ratio Lower Upper

75 100

110 12.2 18.0 54.0#

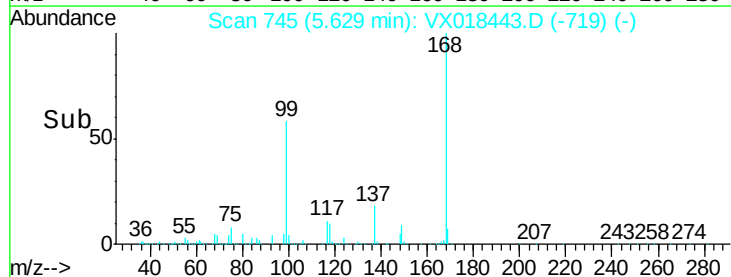
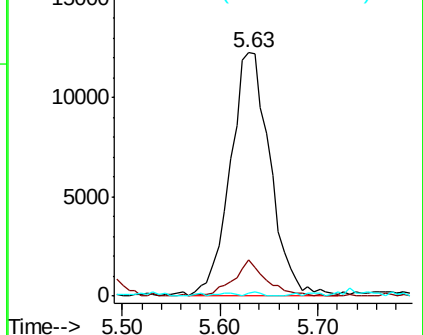
77 0.6 24.4 36.6#

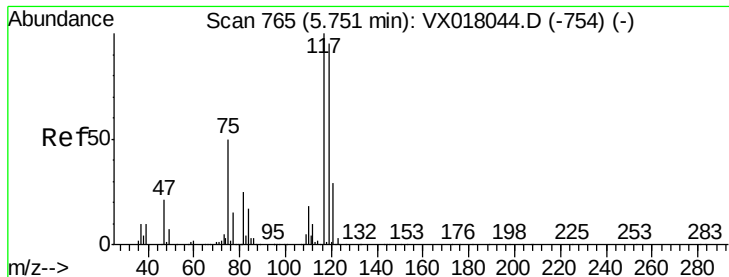


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.588 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP05-20200910

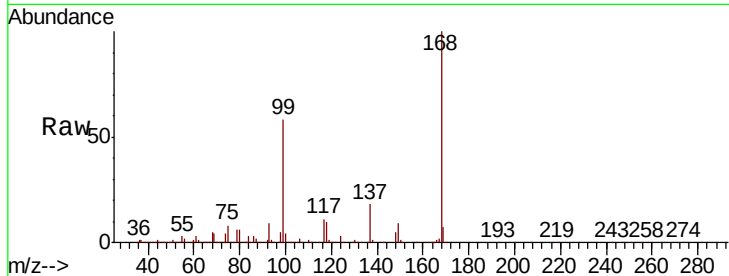
Tot Ion:117 Resp: 47501

Ion Ratio Lower Upper

117 100

119 6.8 75.8 113.6#

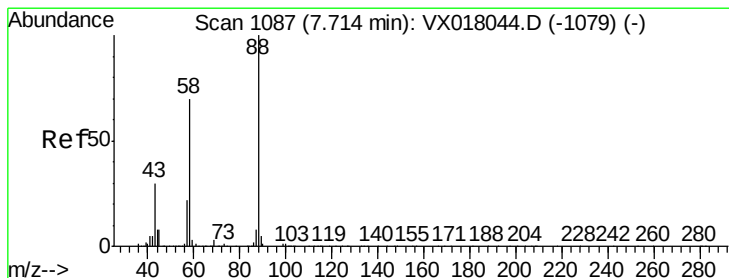
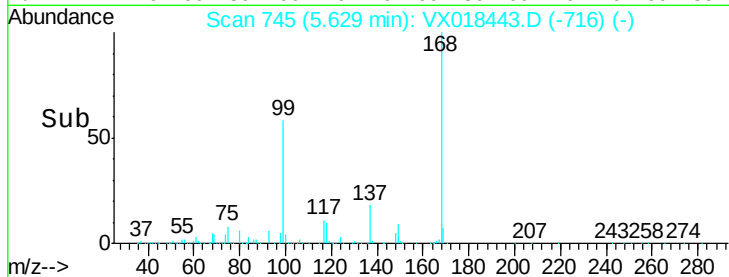
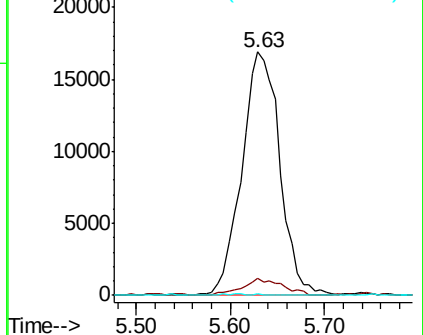
121 0.5 23.4 35.0#



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: 1.663 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

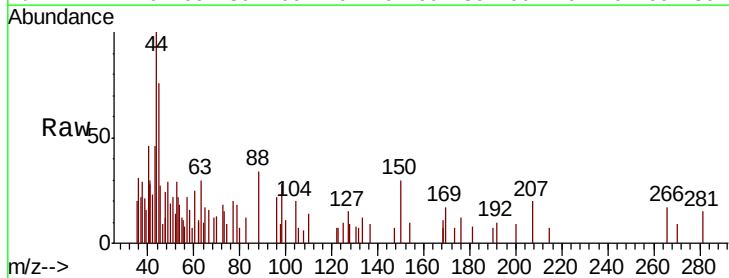
Tgt Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

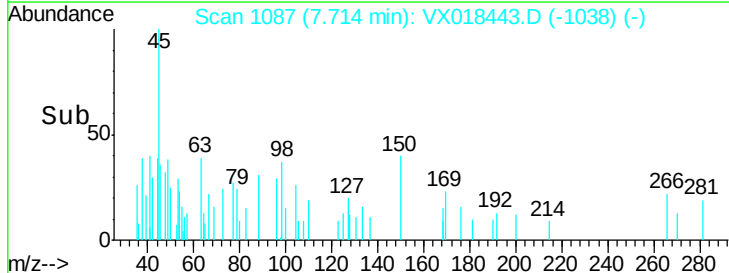
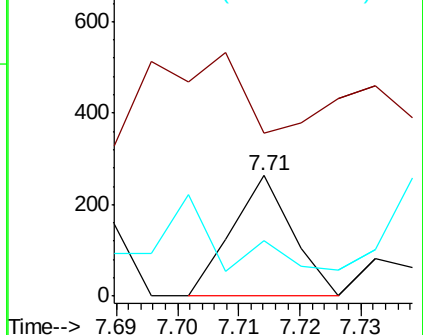
58 106.1 56.4 84.6#

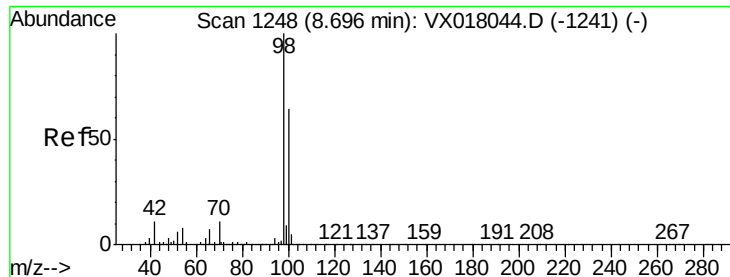


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.006 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

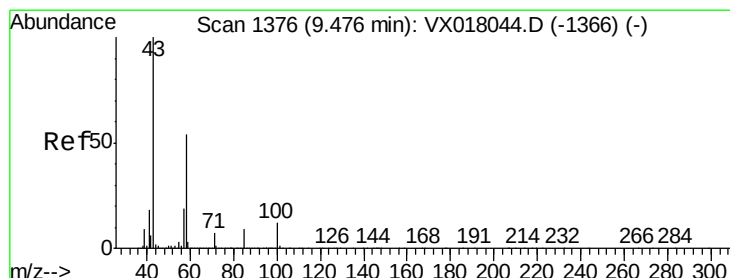
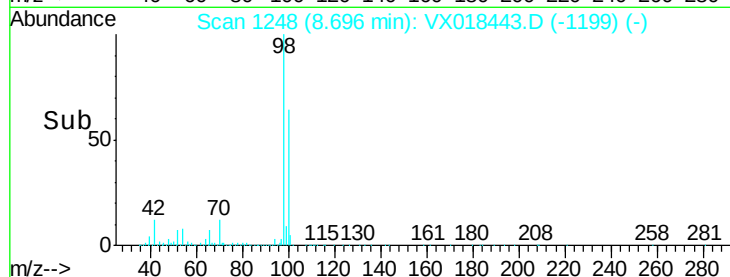
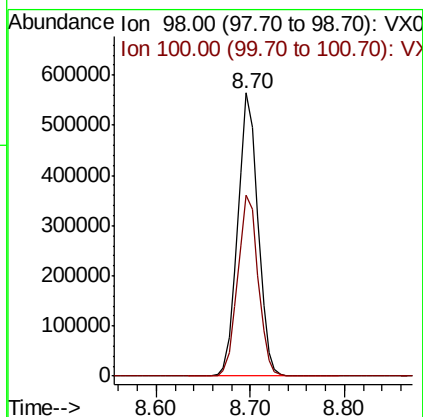
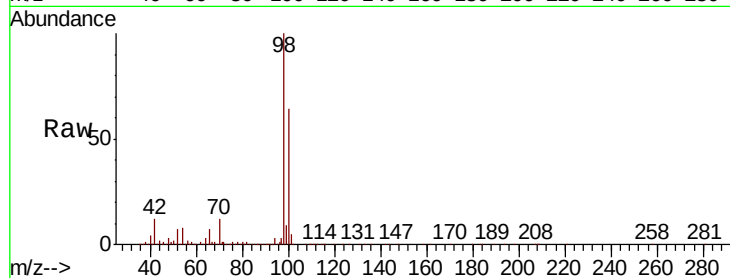
SA-DUP05-20200910

Tot Ion: 98 Resp: 844686

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.4



#59

2-Hexanone

Concen: 11.721 ug/l

RT: 9.60 min Scan# 1397

Delta R.T. 0.13 min

Lab File: VX018443.D

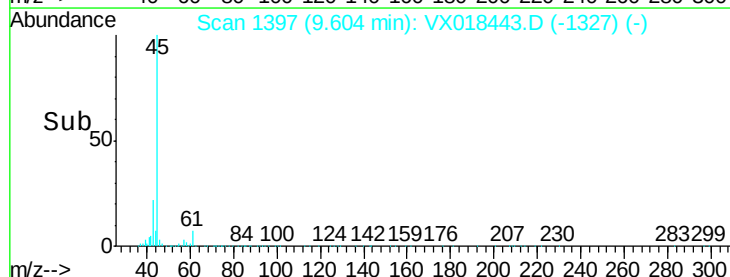
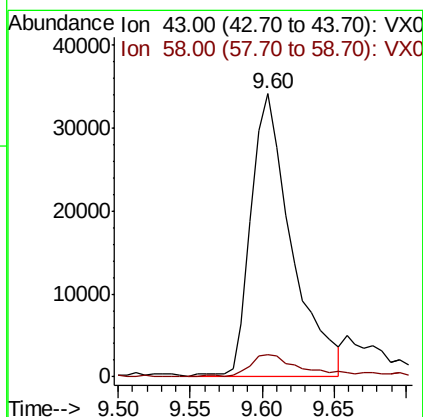
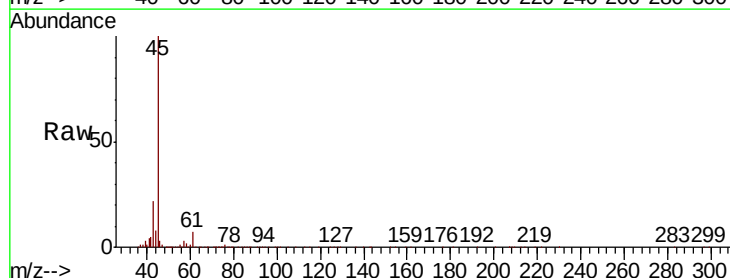
Acq: 16 Sep 2020 16:27

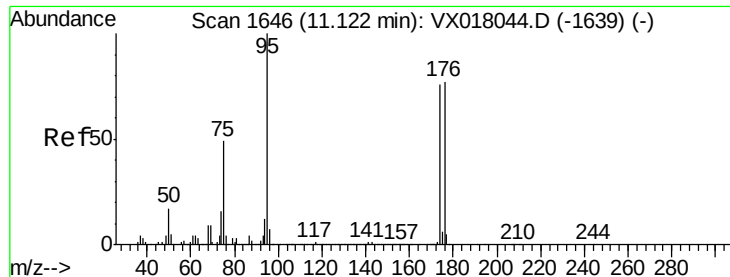
Tgt Ion: 43 Resp: 66074

Ion Ratio Lower Upper

43 100

58 9.7 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 46.986 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP05-20200910

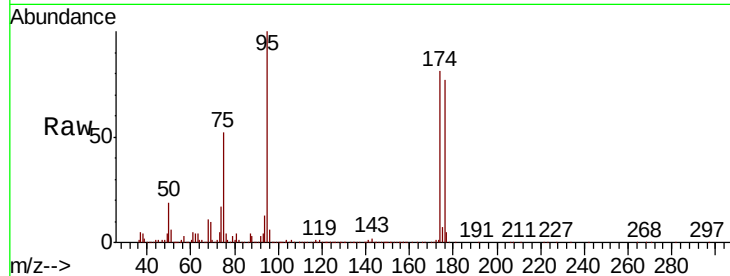
Tot Ion: 95 Resp: 325274

Ion Ratio Lower Upper

95 100

174 80.0 0.0 160.2

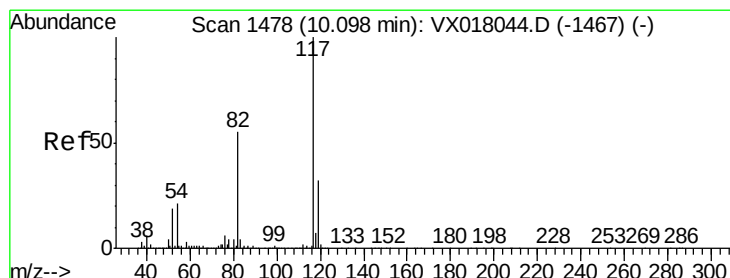
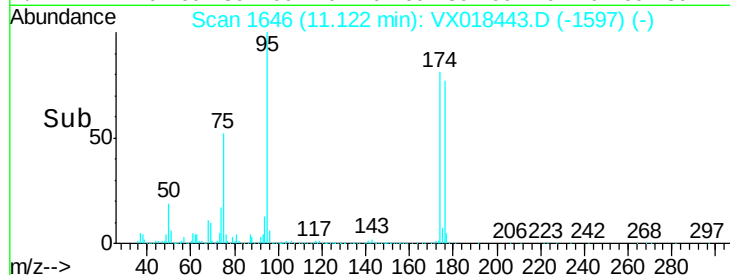
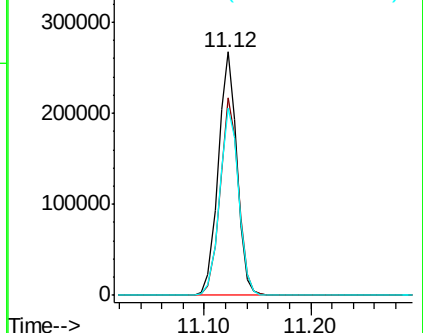
176 78.4 0.0 155.8



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: VX018443.D

Acq: 16 Sep 2020 16:27

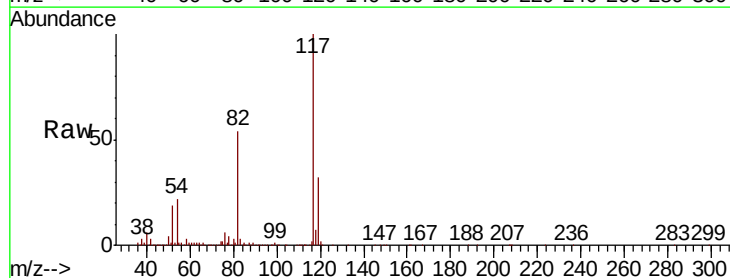
Tgt Ion: 117 Resp: 676918

Ion Ratio Lower Upper

117 100

82 54.1 44.2 66.2

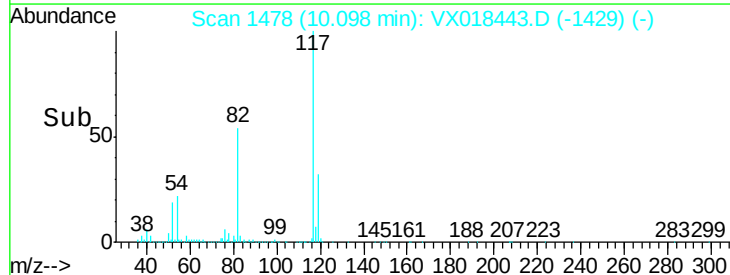
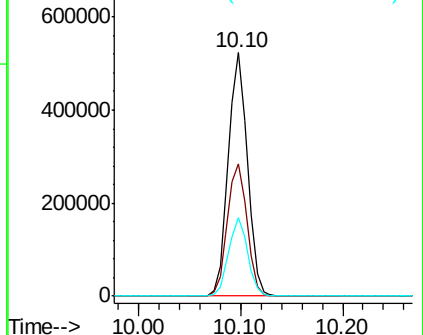
119 32.1 25.7 38.5

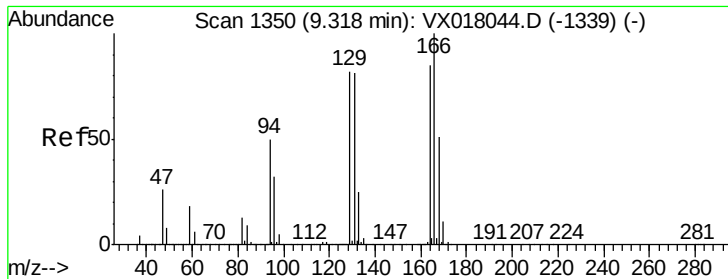


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.400 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP05-20200910

Tot Ion:164 Resp: 1992

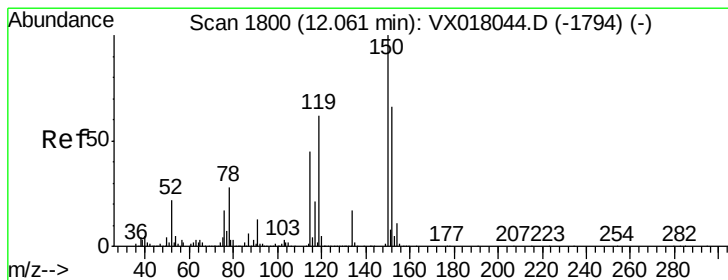
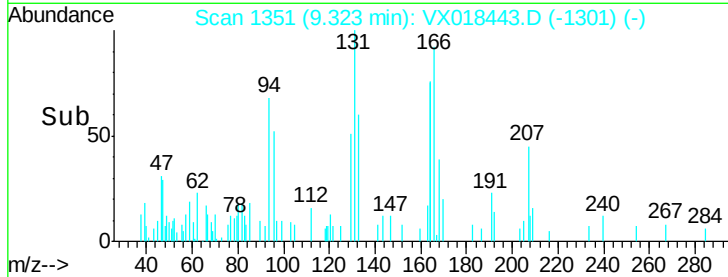
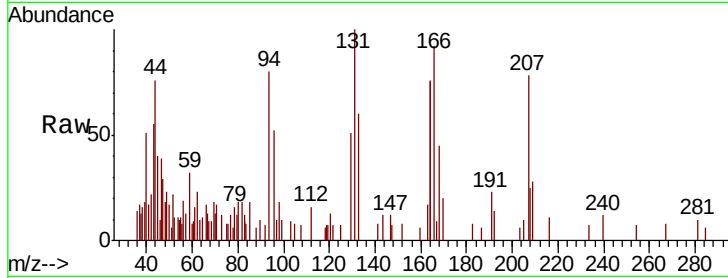
Ion Ratio Lower Upper

164 100

166 61.0 94.2 141.2#

129 33.7 76.9 115.3#

131 66.4 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: VX018443.D

Acq: 16 Sep 2020 16:27

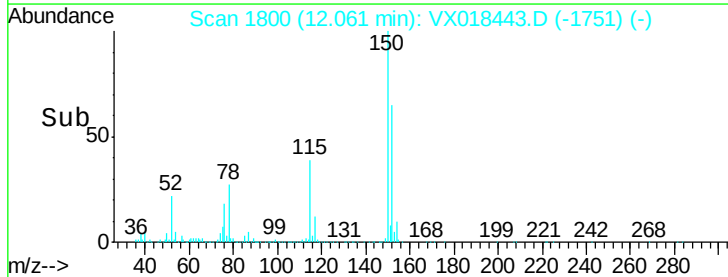
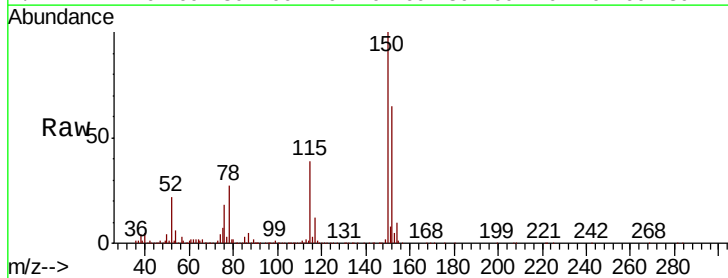
Tgt Ion:152 Resp: 339416

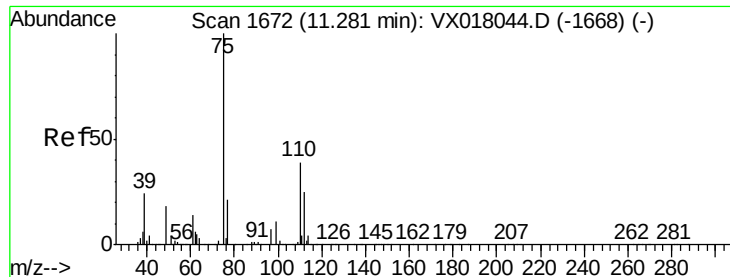
Ion Ratio Lower Upper

152 100

115 59.4 41.5 124.5

150 156.1 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 22.421 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

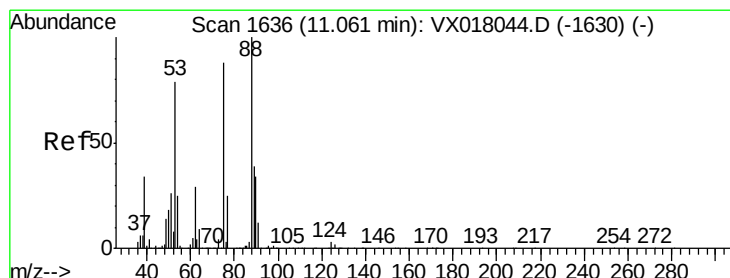
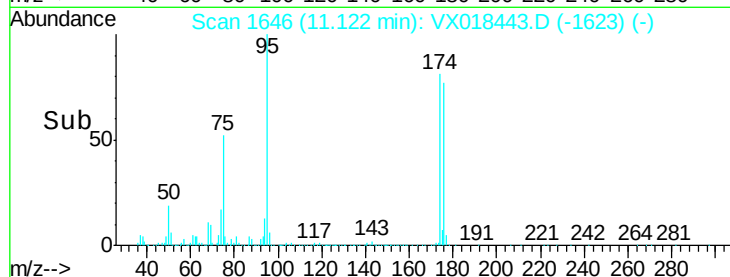
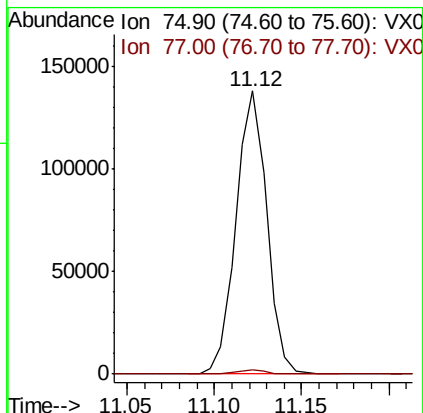
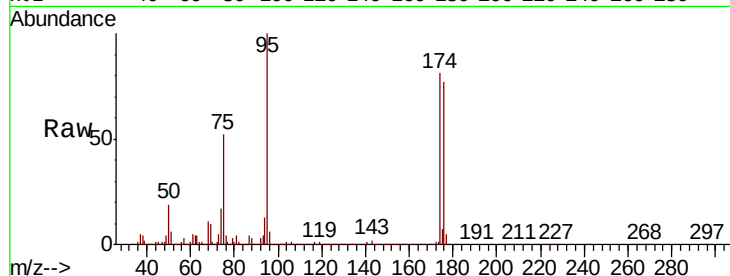
SA-DUP05-20200910

Tot Ion: 75 Resp: 169289

Ion Ratio Lower Upper

75 100

77 1.6 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.556 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

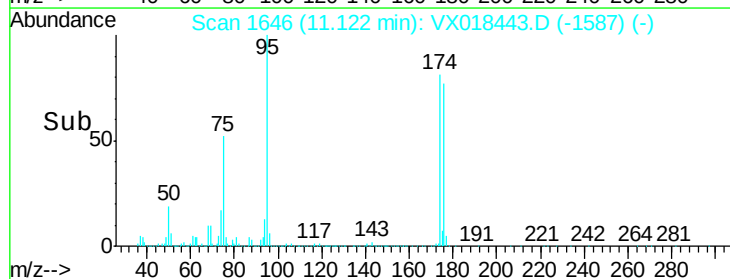
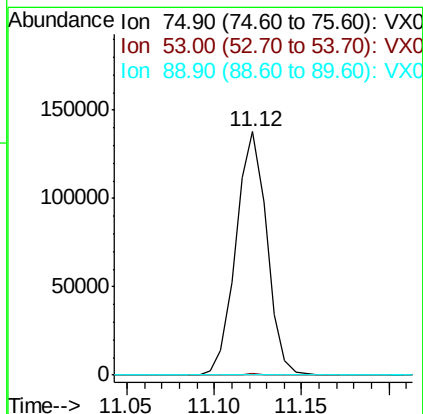
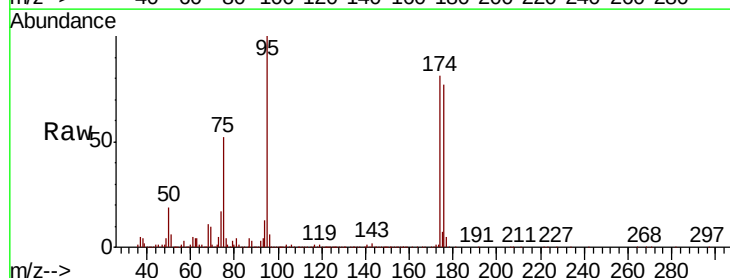
Tgt Ion: 75 Resp: 169289

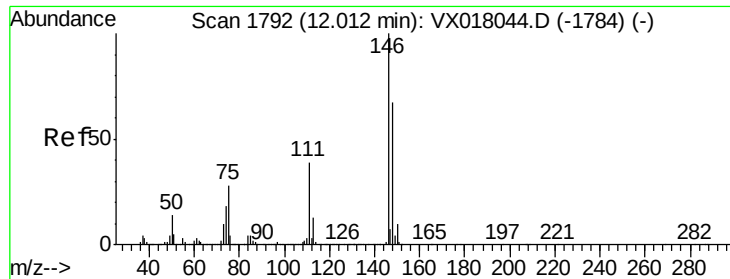
Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

89 0.1 36.6 54.8#





#87

1,3-Dichlorobenzene

Concen: 0.239 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

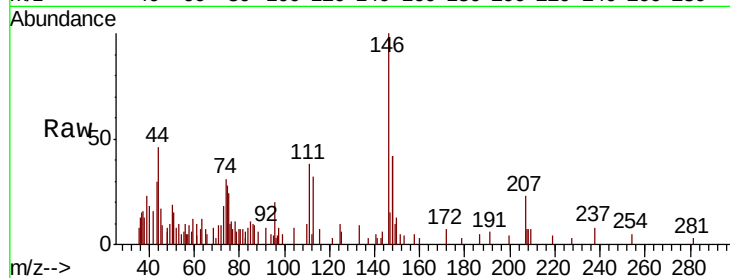
Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP05-20200910

Tot Ion:146 Resp: 2593

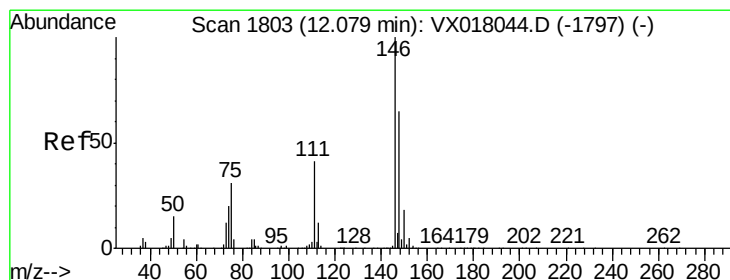
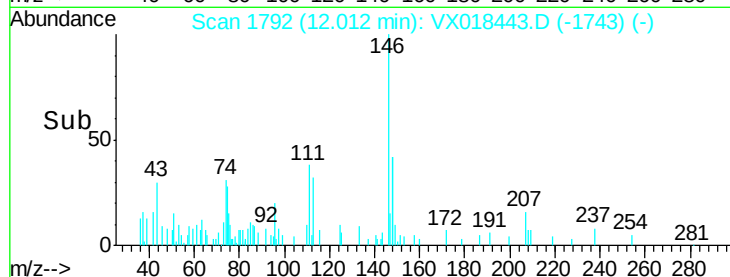
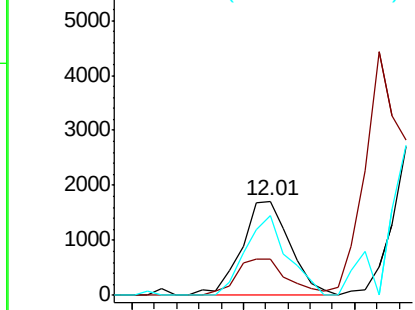
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.6	61.8
148	73.6	33.1	99.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.238 ug/l

RT: 12.01 min Scan# 1792

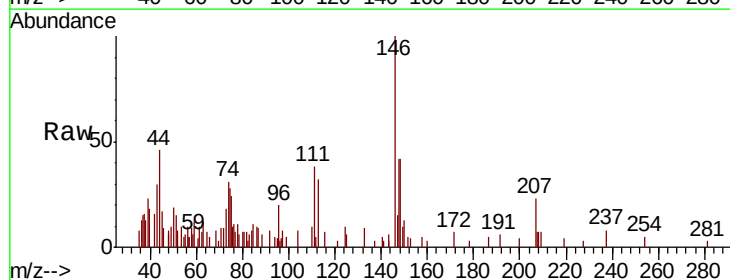
Delta R.T. -0.07 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Tgt Ion:146 Resp: 2593

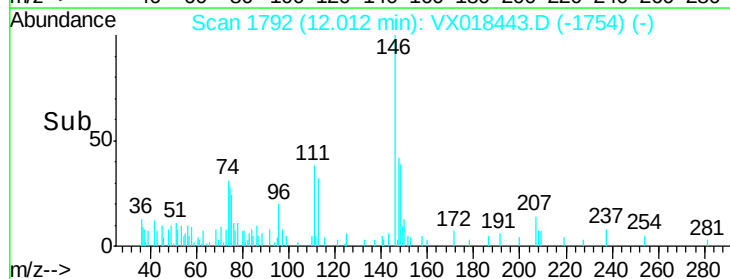
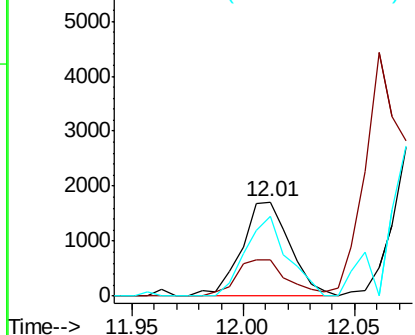
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	60.8
148	73.6	33.1	99.2

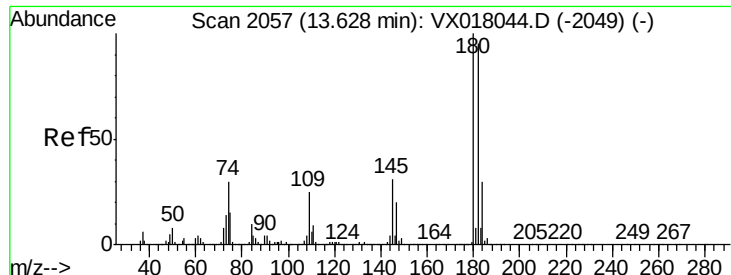


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 0.319 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX018443.D

Acq: 16 Sep 2020 16:27

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP05-20200910

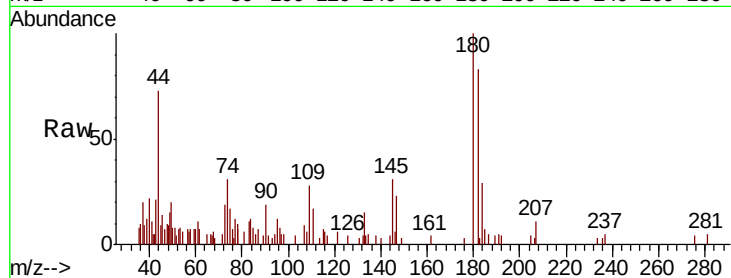
Tot Ion:180 Resp: 2173

Ion Ratio Lower Upper

180 100

182 94.4 47.5 142.6

145 53.7 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

