

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX092419\
 Data File : VX012635.D
 Acq On : 24 Sep 2019 16:07
 Operator : JC/SP
 Sample : K5013-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0544

Quant Time: Sep 25 04:37:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	154921	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	261581	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	211651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	71758	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	109865	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
35) Dibromofluoromethane	5.49	113	78618	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
50) Toluene-d8	8.71	98	305178	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	11.14	95	97887	41.50	ug/l	0.00
Spiked Amount			Recovery	=	83.00%	

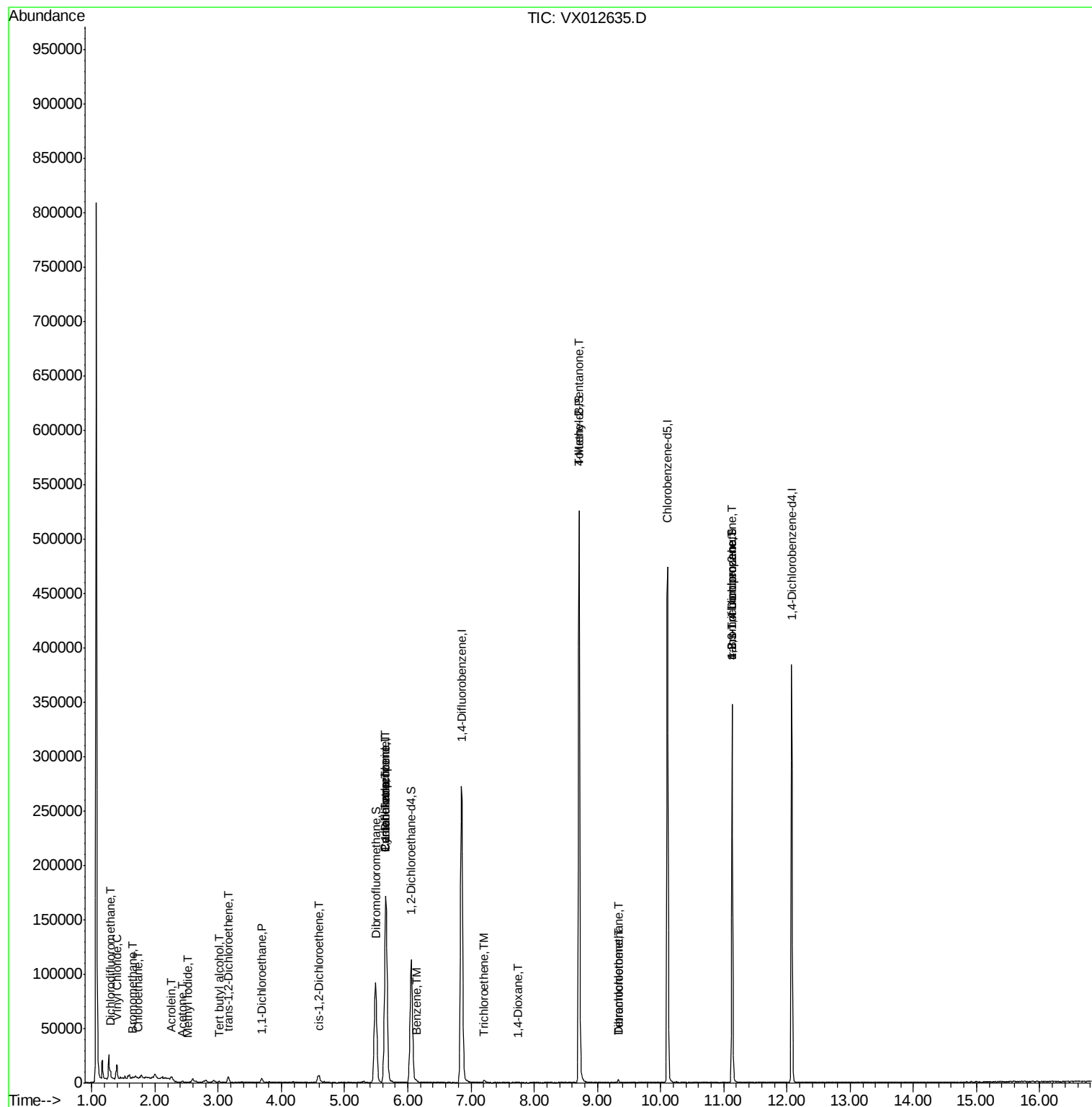
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	370	0.212	ug/l #	67
4) Vinyl Chloride	1.40	62	2265	1.139	ug/l #	78
5) Bromomethane	1.64	94	323	0.413	ug/l #	71
6) Chloroethane	1.72	64	284	0.212	ug/l #	86
10) Methyl Iodide	2.51	142	111	5.009	ug/l #	35
11) Tert butyl alcohol	3.02	59	521	0.924	ug/l #	72
13) Acrolein	2.25	56	149	10.688	ug/l #	1
16) Acetone	2.44	43	835	0.699	ug/l	95
21) trans-1,2-Dichloroethene	3.16	96	1960	1.062	ug/l	86
24) 1,1-Dichloroethane	3.69	63	3803	1.096	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	4498	2.101	ug/l	86
31) Cyclohexane	5.64	56	3998	1.273	ug/l #	34
36) 1,1-Dichloropropene	5.65	75	13715	5.440	ug/l #	51
38) Carbon Tetrachloride	5.65	117	17374	6.783	ug/l #	17
40) Benzene	6.14	78	1918	0.259	ug/l	97
44) Trichloroethene	7.21	130	781	0.412	ug/l	58
49) 1,4-Dioxane	7.75	88	45	0.839	ug/l #	35
51) 4-Methyl-2-Pentanone	8.71	43	1463	0.481	ug/l #	1
60) Dibromochloromethane	9.34	129	492	0.262	ug/l #	11
64) Tetrachloroethene	9.33	164	348	0.236	ug/l	84
76) 1,2,3-Trichloropropane	11.14	75	50279	26.488	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	50279	75.909	ug/l #	8

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

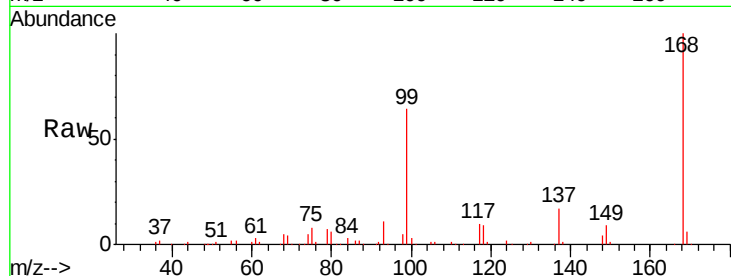
S49-0544

Tgt Ion:168 Resp: 154921

Ion Ratio Lower Upper

168 100

99 64.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

30000

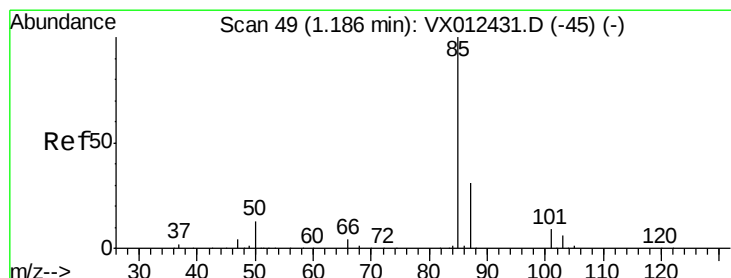
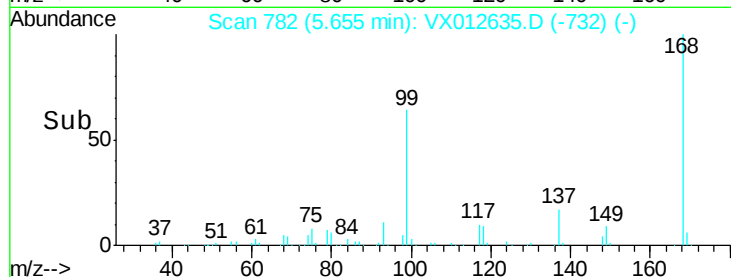
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.212 ug/l

RT: 1.30 min Scan# 67

Delta R.T. 0.11 min

Lab File: VX012635.D

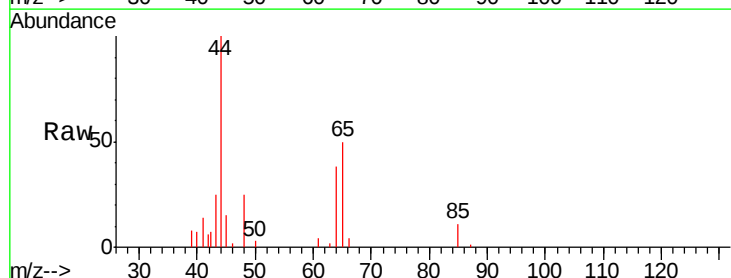
Acq: 24 Sep 2019 16:07

Tgt Ion: 85 Resp: 370

Ion Ratio Lower Upper

85 100

87 13.1 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.30

400

300

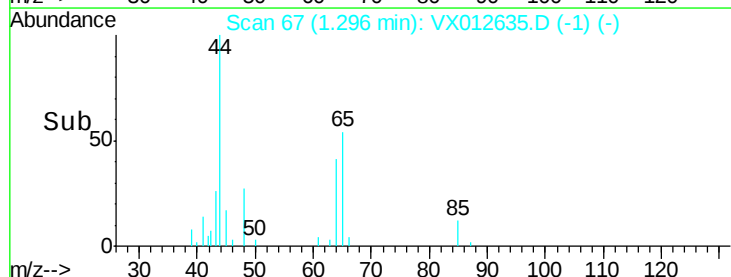
200

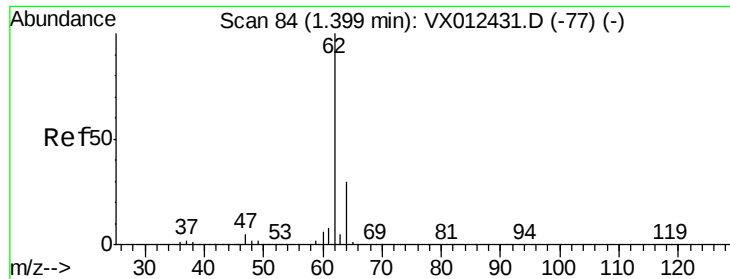
100

0

Time-->

1.26 1.28 1.30 1.32





#4

Vinyl Chloride

Concen: 1.139 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

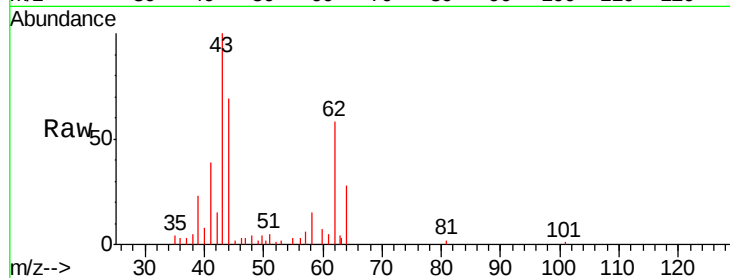
S49-0544

Tgt Ion: 62 Resp: 2265

Ion Ratio Lower Upper

62 100

64 42.1 24.2 36.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

2500

2000

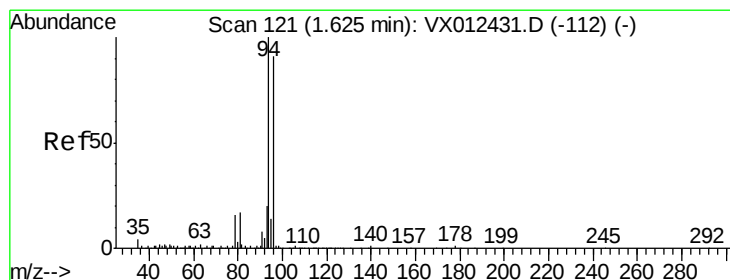
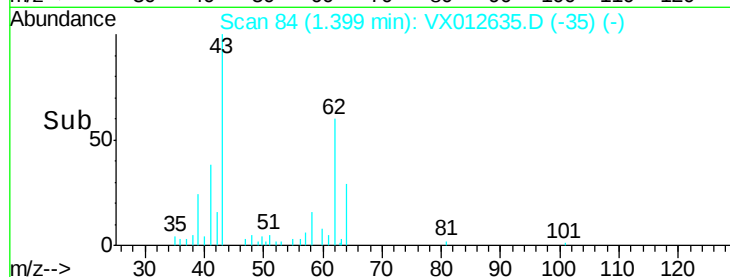
1500

1000

500

0

Time-->



#5

Bromomethane

Concen: 0.413 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012635.D

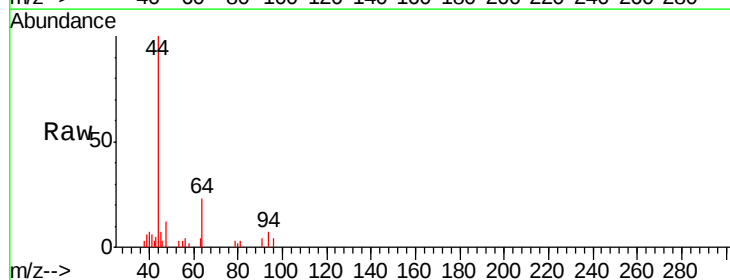
Acq: 24 Sep 2019 16:07

Tgt Ion: 94 Resp: 323

Ion Ratio Lower Upper

94 100

96 63.8 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

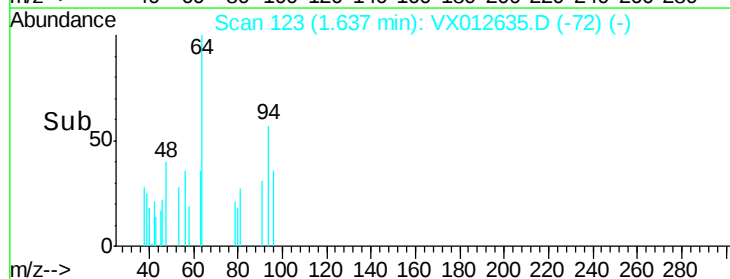
150

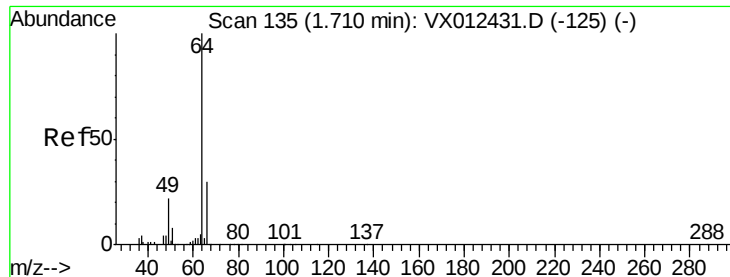
100

50

0

Time-->





#6

Chloroethane

Concen: 0.212 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

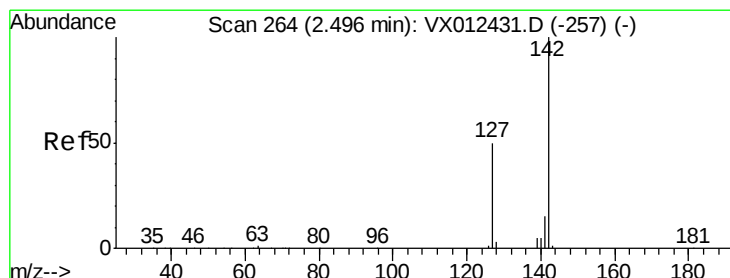
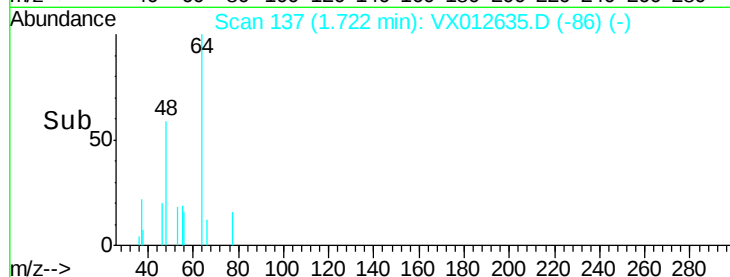
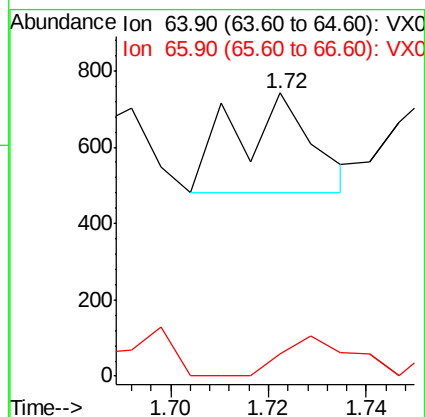
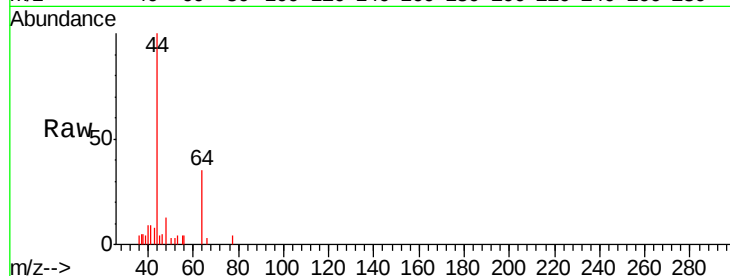
S49-0544

Tgt Ion: 64 Resp: 284

Ion Ratio Lower Upper

64 100

66 22.6 24.0 36.0#



#10

Methyl Iodide

Concen: 5.009 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

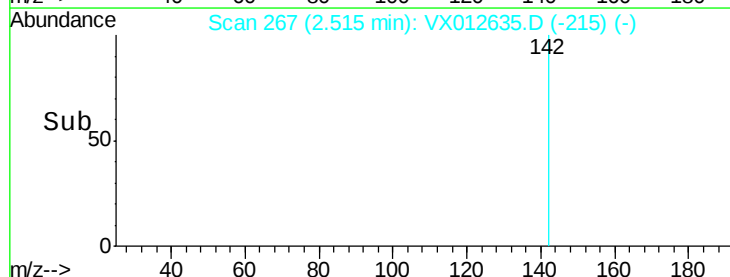
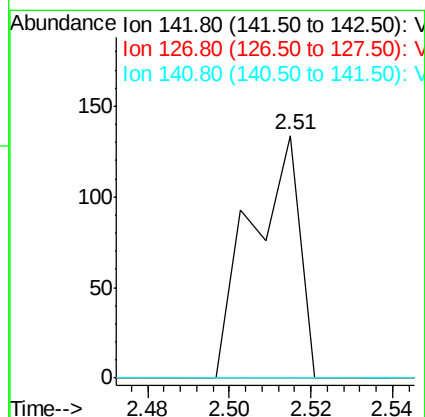
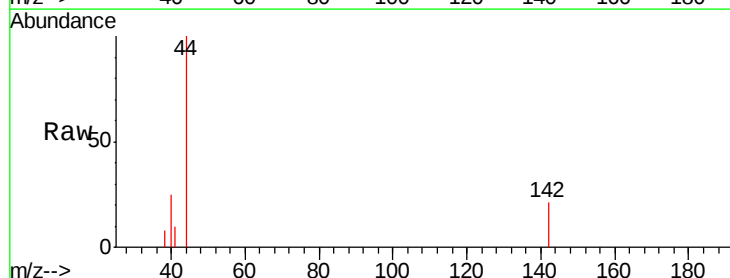
Tgt Ion: 142 Resp: 111

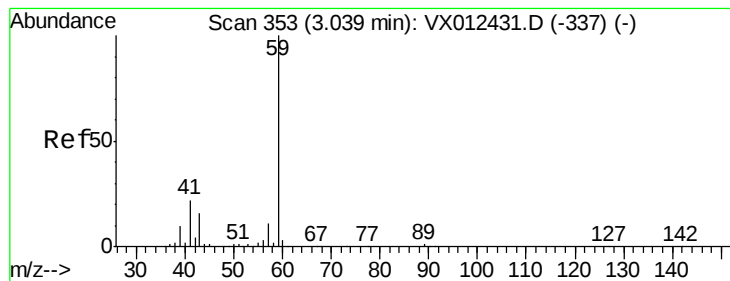
Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

141 0.0 12.1 18.1#



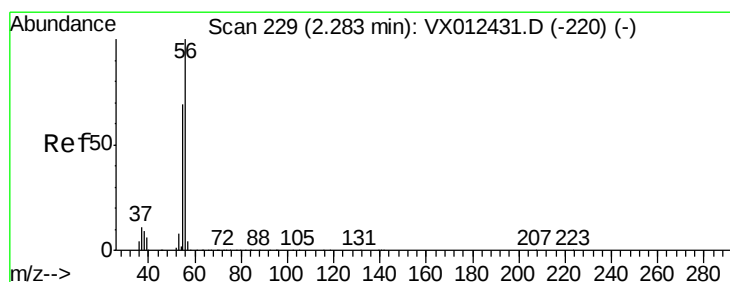
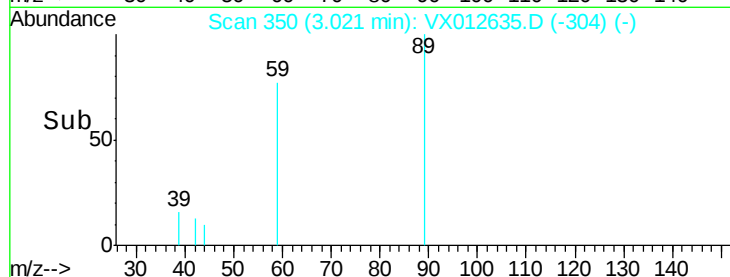
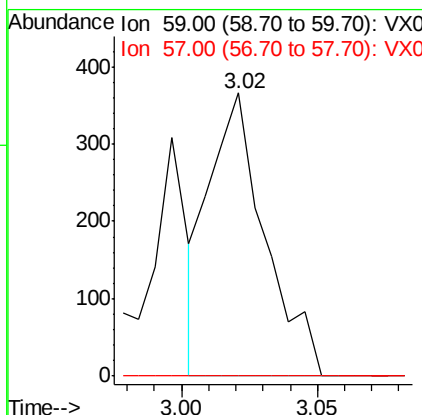
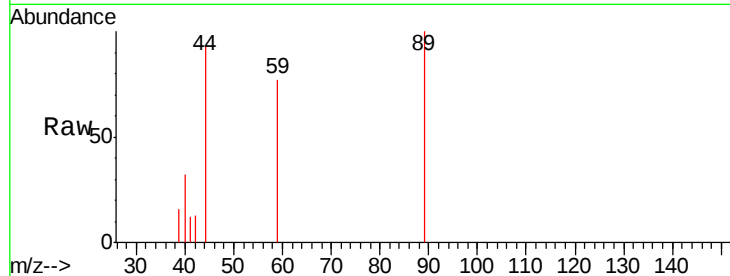


#11

Tert butyl alcohol
 Concen: 0.924 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX012635.D
 Acq: 24 Sep 2019 16:07

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0544

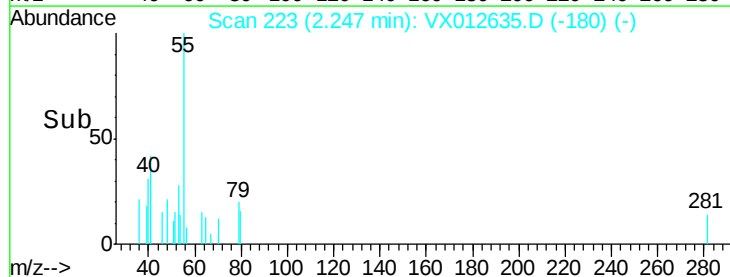
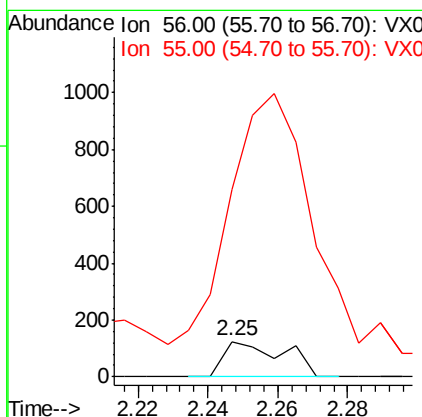
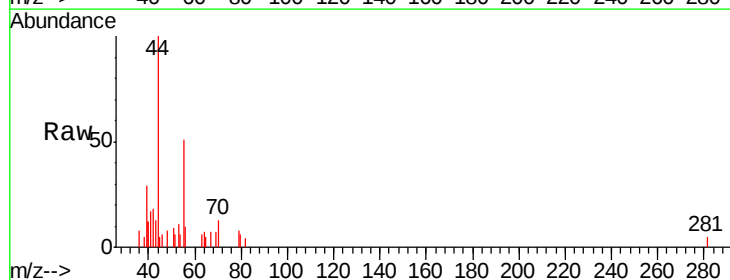
Tgt Ion: 59 Resp: 521
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

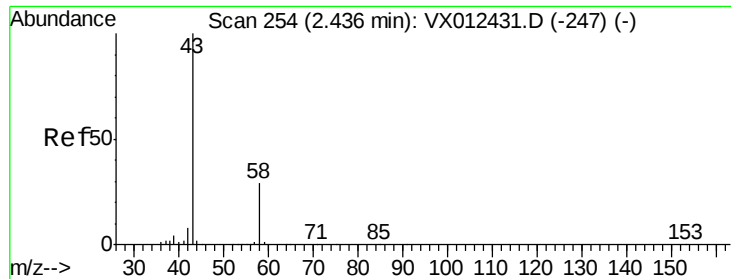


#13

Acrolein
 Concen: 10.688 ug/l
 RT: 2.25 min Scan# 223
 Delta R.T. -0.04 min
 Lab File: VX012635.D
 Acq: 24 Sep 2019 16:07

Tgt Ion: 56 Resp: 149
 Ion Ratio Lower Upper
 56 100
 55 1285.9 55.8 83.8#





#16

Acetone

Concen: 0.699 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampled :

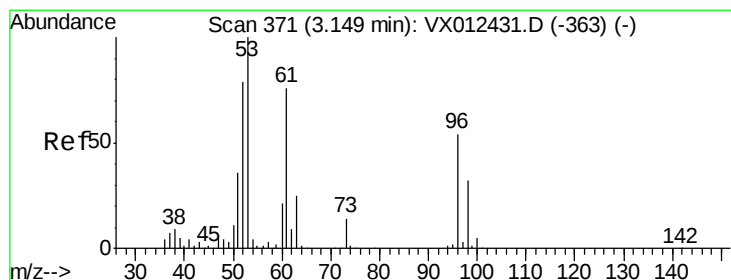
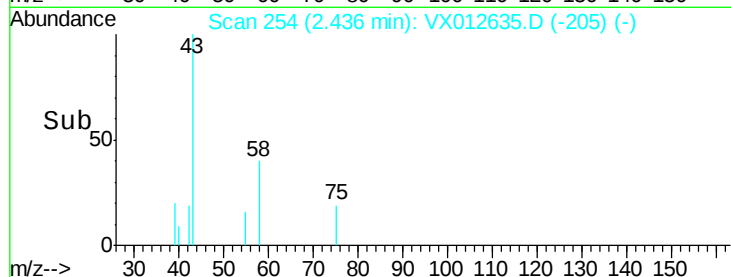
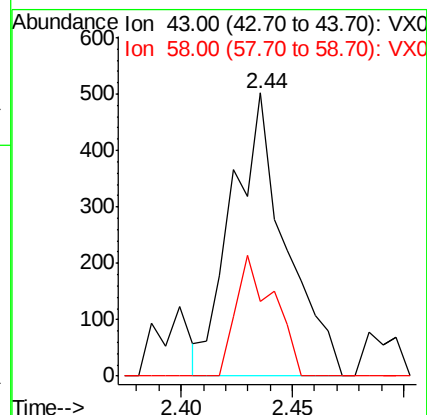
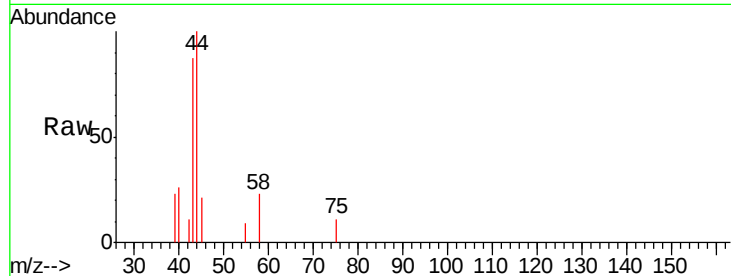
S49-0544

Tgt Ion: 43 Resp: 835

Ion Ratio Lower Upper

43 100

58 26.3 23.3 34.9



#21

trans-1,2-Dichloroethene

Concen: 1.062 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

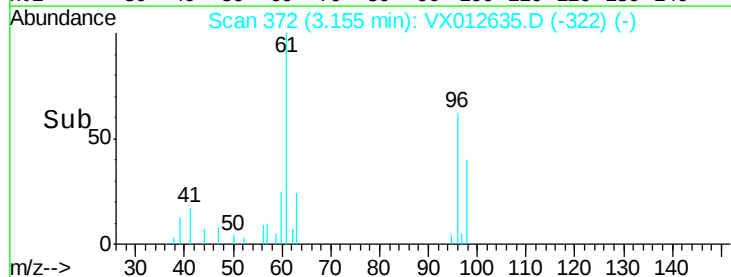
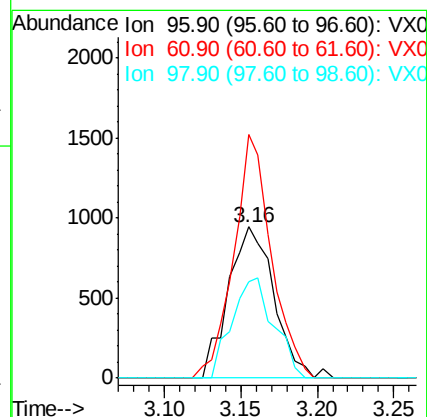
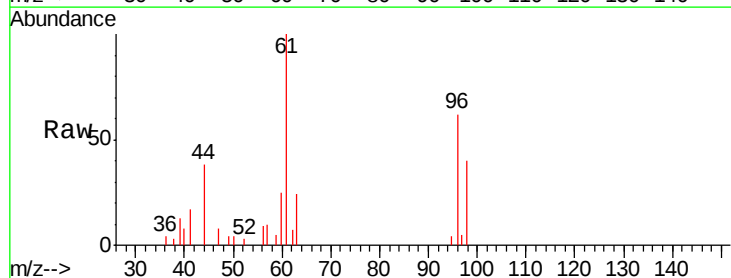
Tgt Ion: 96 Resp: 1960

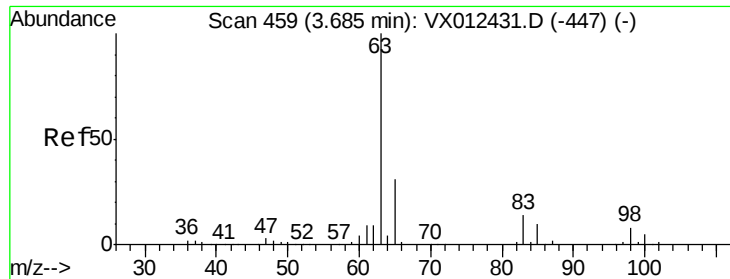
Ion Ratio Lower Upper

96 100

61 161.1 112.0 168.0

98 64.0 47.8 71.8





#24

1,1-Dichloroethane

Concen: 1.096 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0544

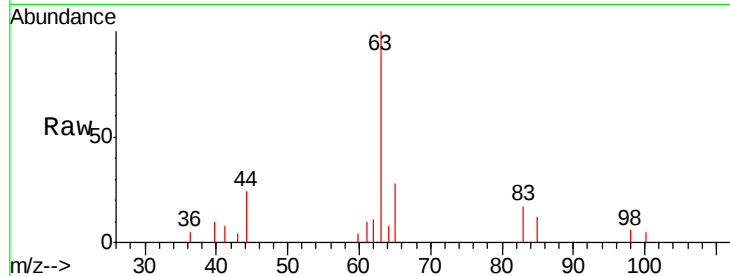
Tgt Ion: 63 Resp: 3803

Ion Ratio Lower Upper

63 100

98 5.8 3.9 11.7

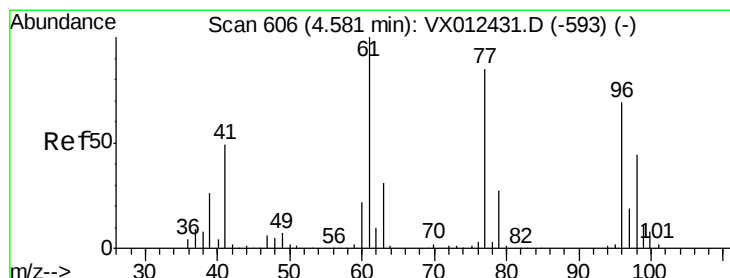
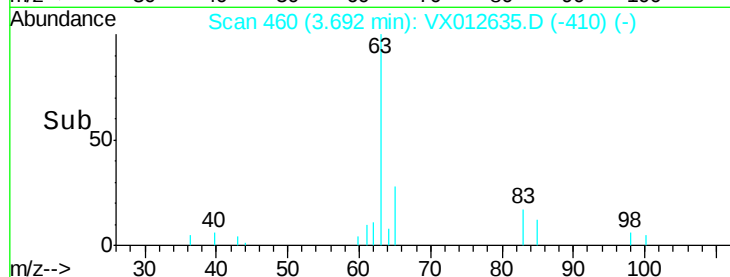
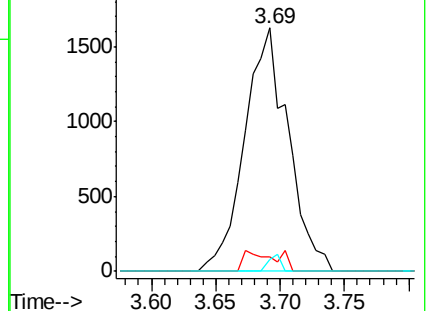
100 5.0 2.3 6.9



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



#27

cis-1,2-Dichloroethene

Concen: 2.101 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

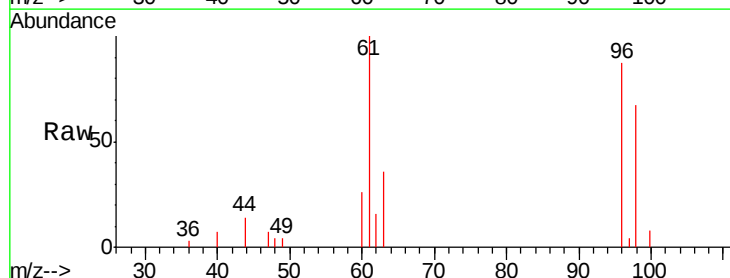
Tgt Ion: 96 Resp: 4498

Ion Ratio Lower Upper

96 100

61 134.1 0.0 319.4

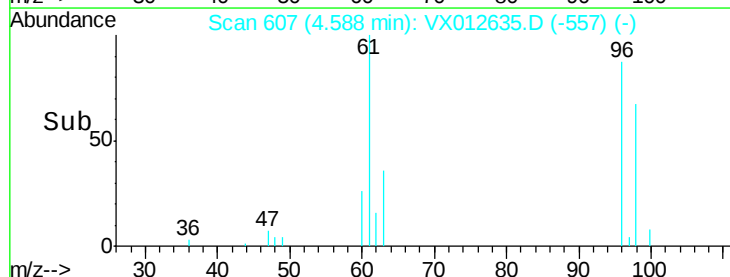
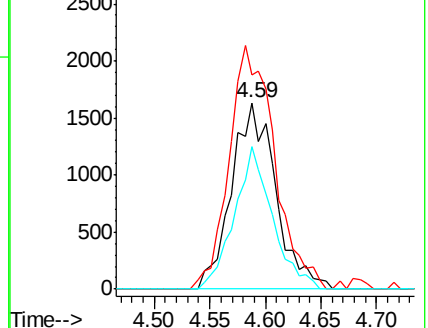
98 65.5 0.0 130.6

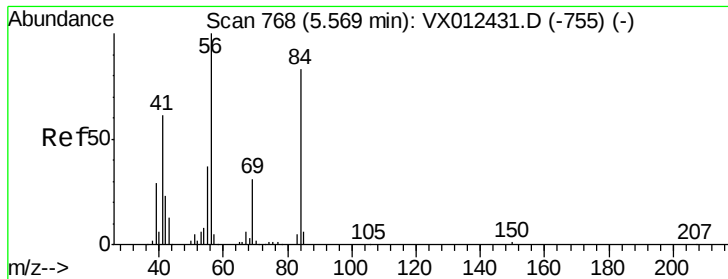


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.273 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampled :

S49-0544

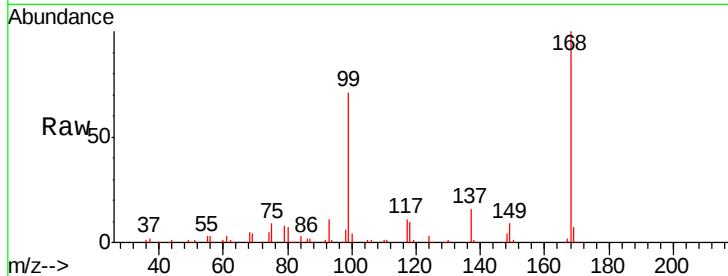
Tgt Ion: 56 Resp: 3998

Ion Ratio Lower Upper

56 100

69 138.3 25.0 37.6#

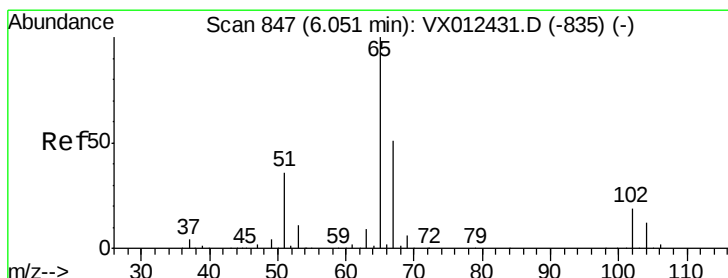
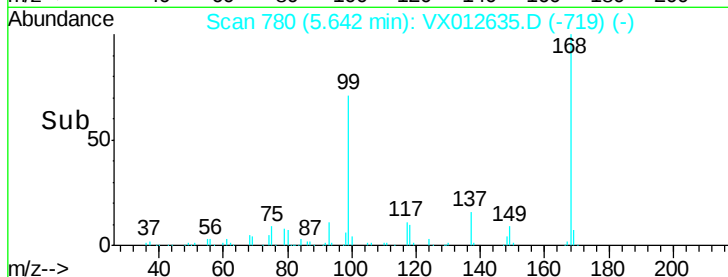
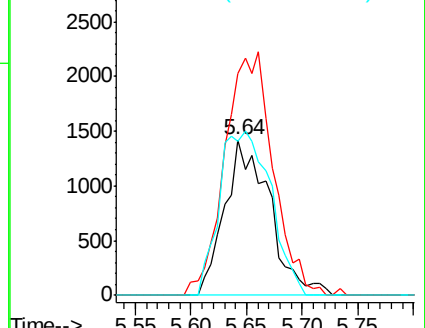
84 98.9 66.4 99.6



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: 48.700 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012635.D

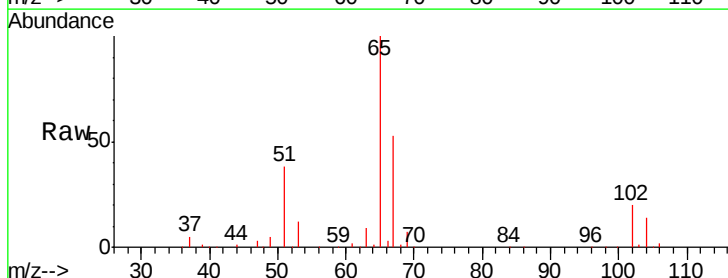
Acq: 24 Sep 2019 16:07

Tgt Ion: 65 Resp: 109865

Ion Ratio Lower Upper

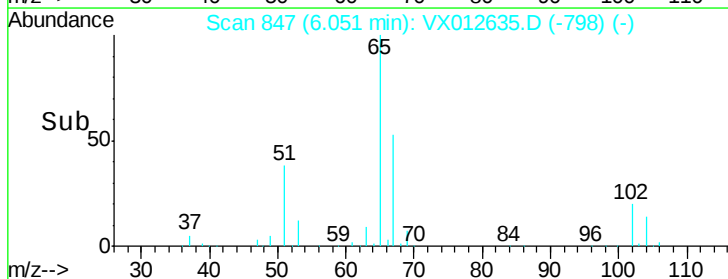
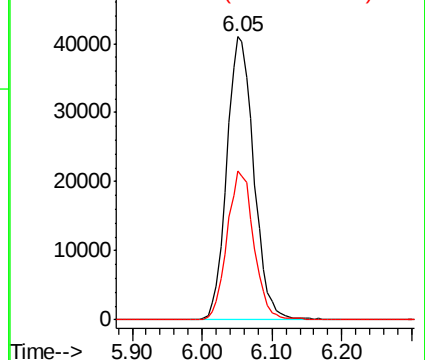
65 100

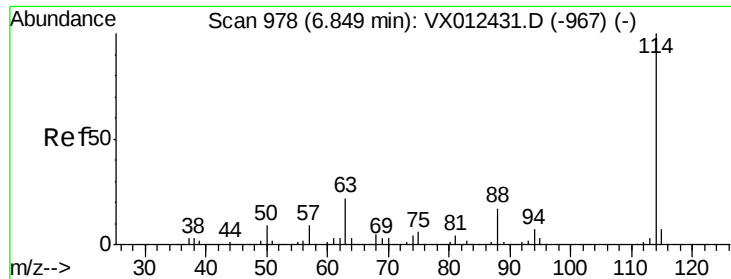
67 51.8 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

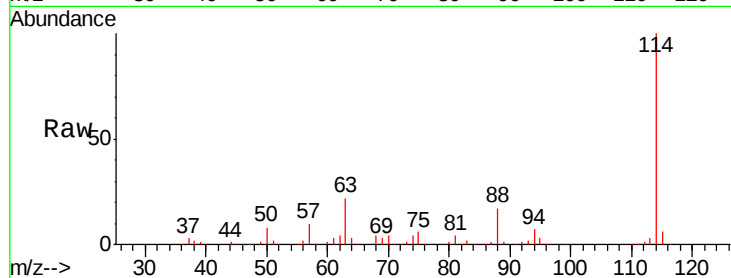




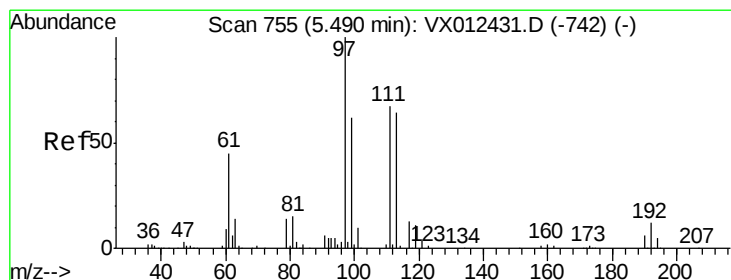
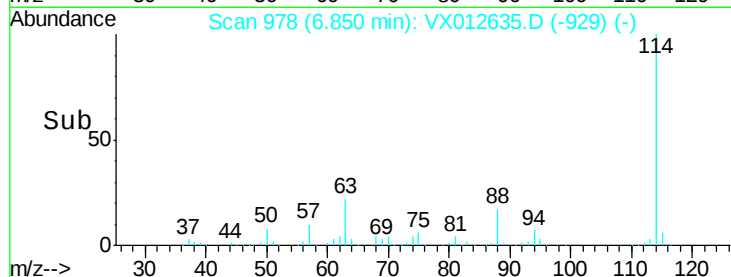
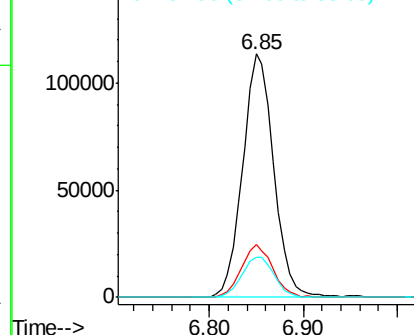
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012635.D
 Acq: 24 Sep 2019 16:07

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0544

Tgt Ion:114 Resp: 261581
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 16.6 0.0 33.2

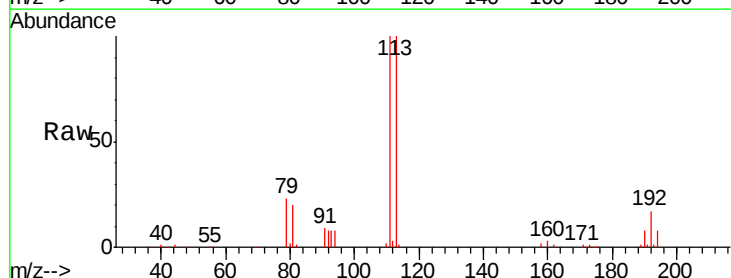


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

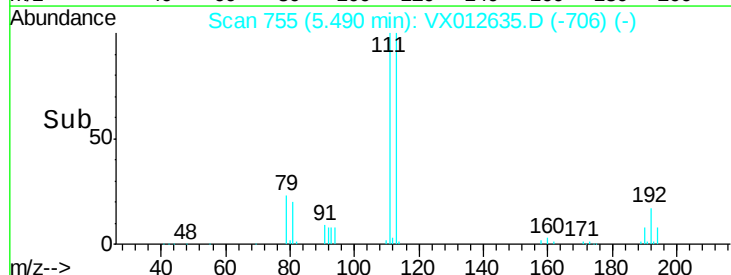
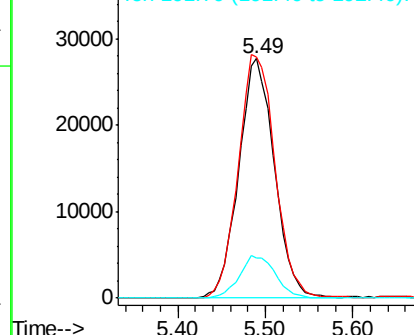


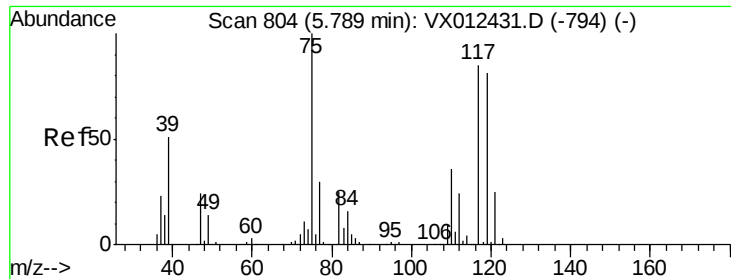
#35
 Dibromofluoromethane
 Concen: 50.466 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012635.D
 Acq: 24 Sep 2019 16:07

Tgt Ion:113 Resp: 78618
 Ion Ratio Lower Upper
 113 100
 111 104.7 83.4 125.2
 192 18.0 14.4 21.6



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: 5.440 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0544

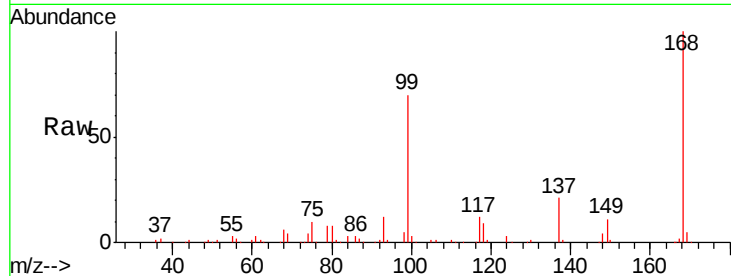
Tgt Ion: 75 Resp: 13715

Ion Ratio Lower Upper

75 100

110 9.3 16.7 50.0#

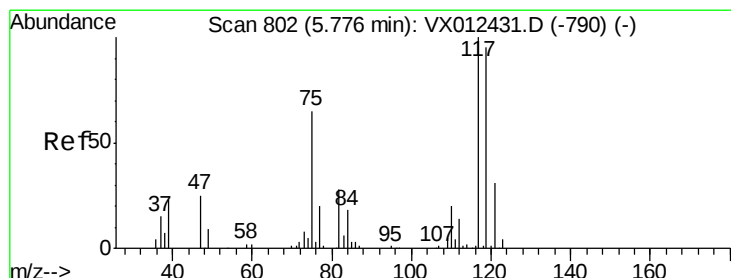
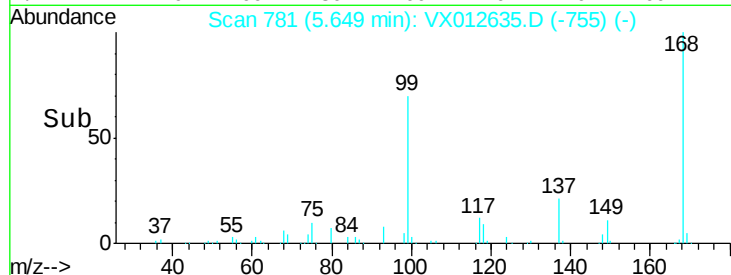
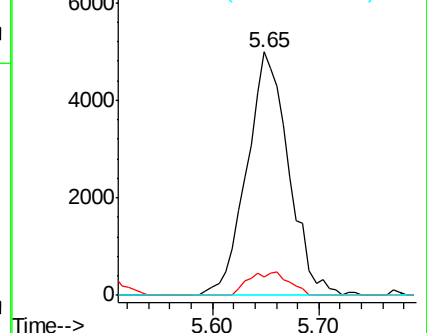
77 0.0 24.2 36.2#



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: 6.783 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

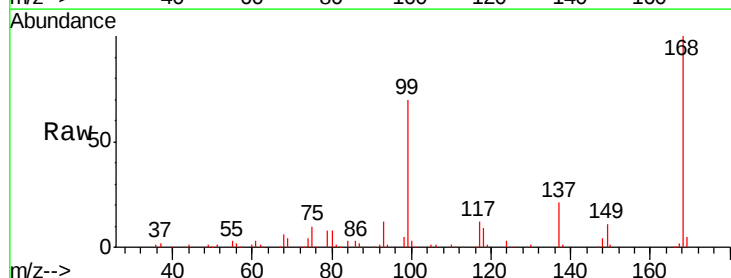
Tgt Ion: 117 Resp: 17374

Ion Ratio Lower Upper

117 100

119 6.2 75.7 113.5#

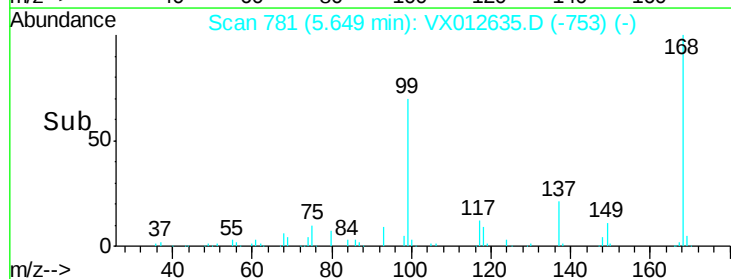
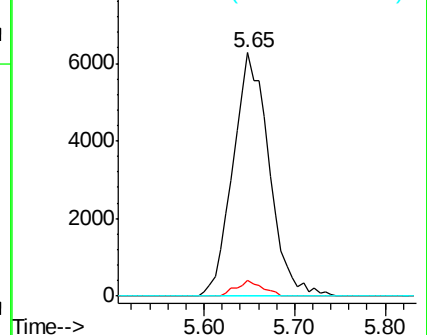
121 0.0 24.2 36.4#

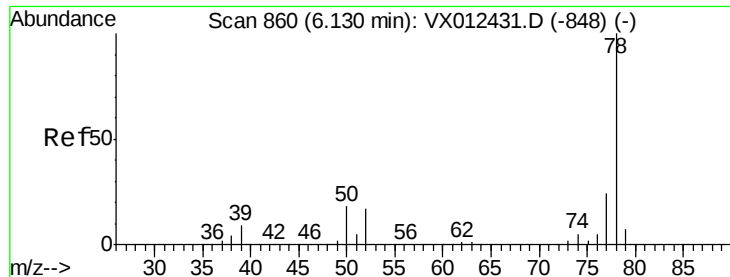


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.259 ug/l

RT: 6.14 min Scan# 862

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampled :

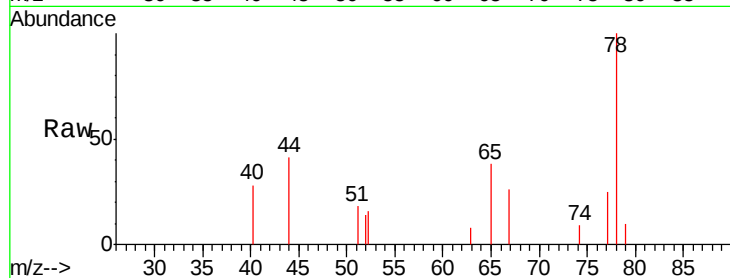
S49-0544

Tgt Ion: 78 Resp: 1918

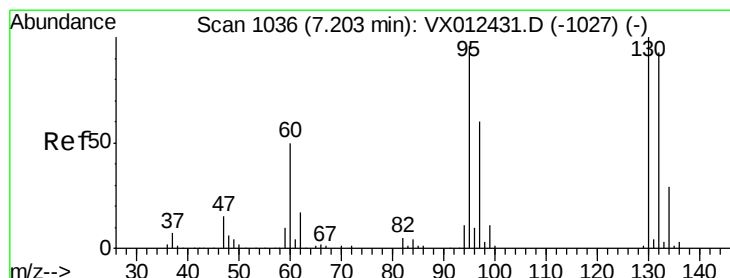
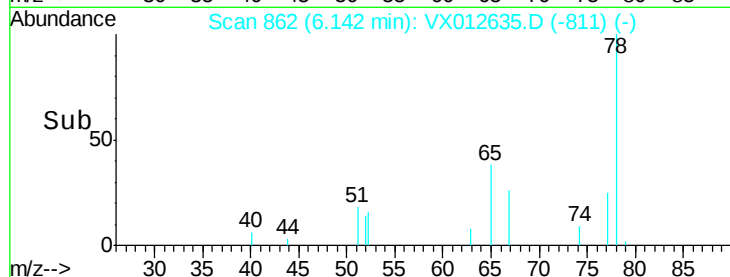
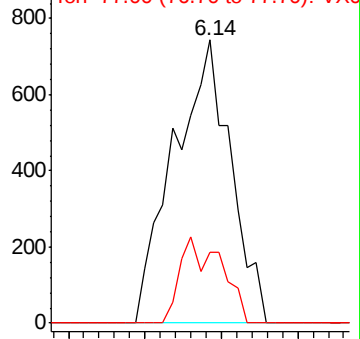
Ion Ratio Lower Upper

78 100

77 25.3 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0



#44

Trichloroethene

Concen: 0.412 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012635.D

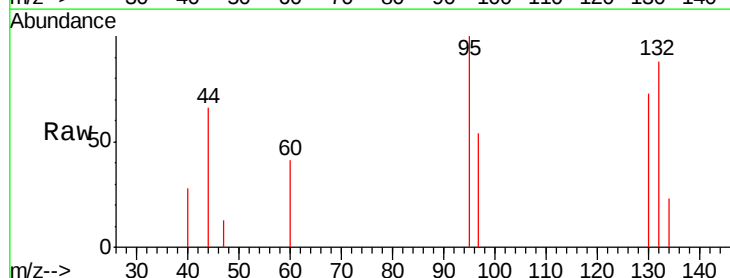
Acq: 24 Sep 2019 16:07

Tgt Ion: 130 Resp: 781

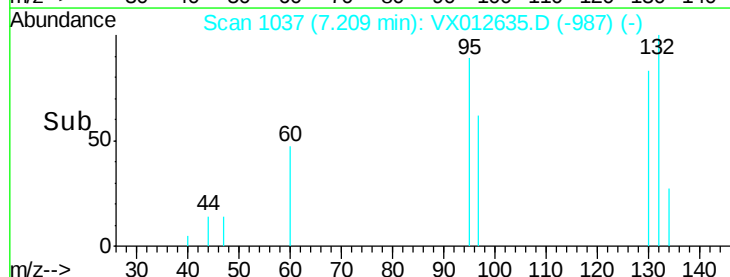
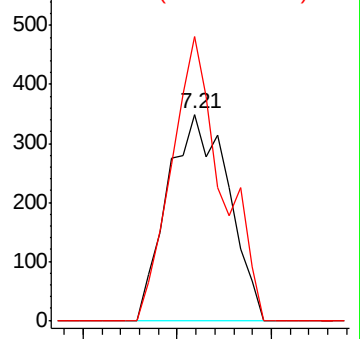
Ion Ratio Lower Upper

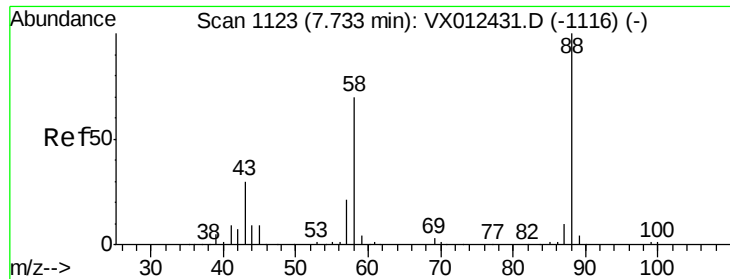
130 100

95 137.4 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V





#49

1,4-Dioxane

Concen: 0.839 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0544

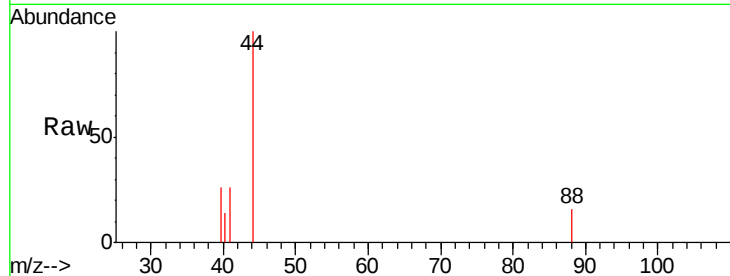
Tgt Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 51.1 29.4 44.0#

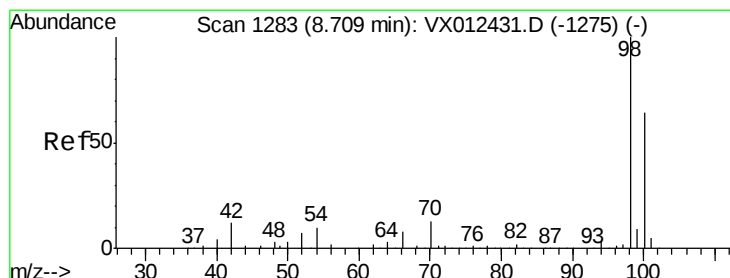
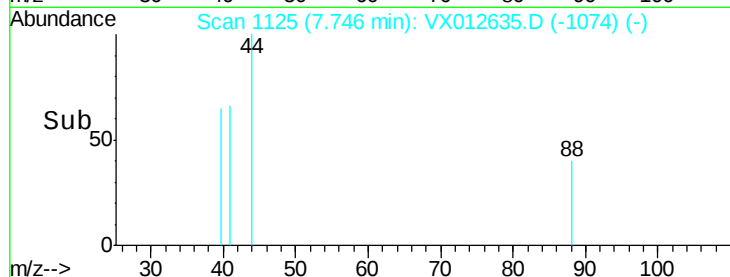
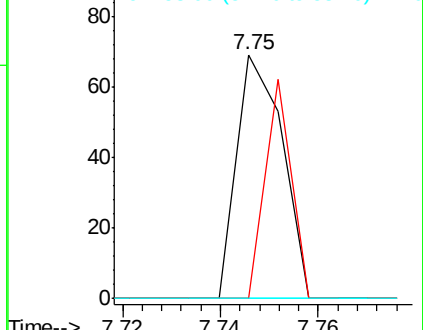
58 0.0 57.5 86.3#



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: 50.869 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012635.D

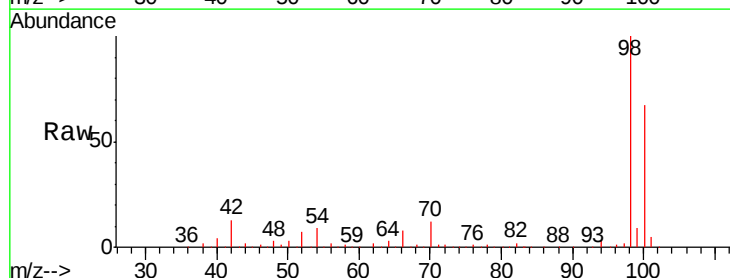
Acq: 24 Sep 2019 16:07

Tgt Ion: 98 Resp: 305178

Ion Ratio Lower Upper

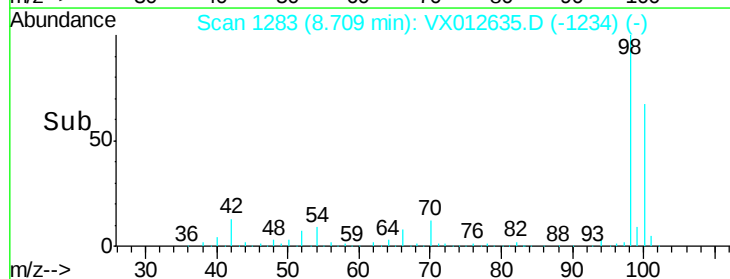
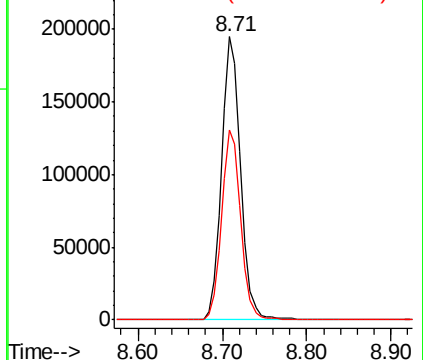
98 100

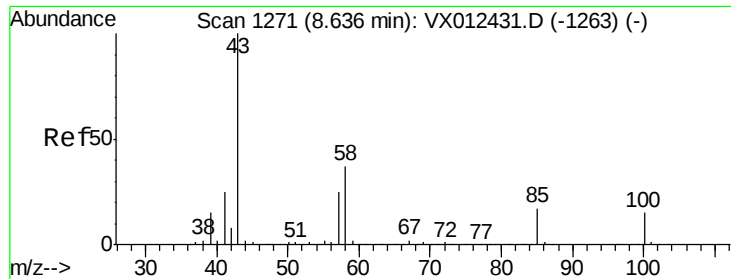
100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.481 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampled :

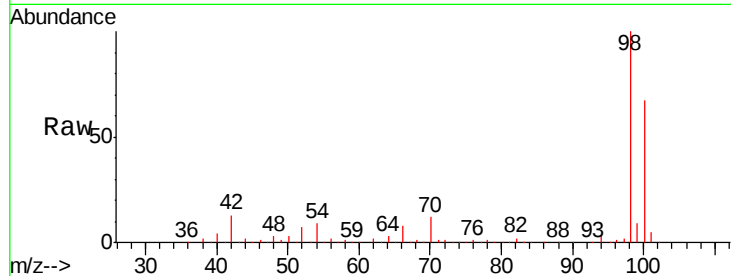
S49-0544

Tgt Ion: 43 Resp: 1463

Ion Ratio Lower Upper

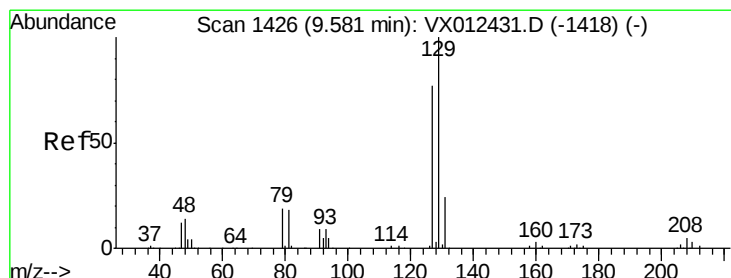
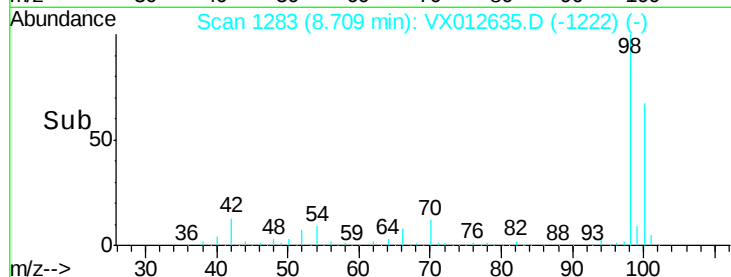
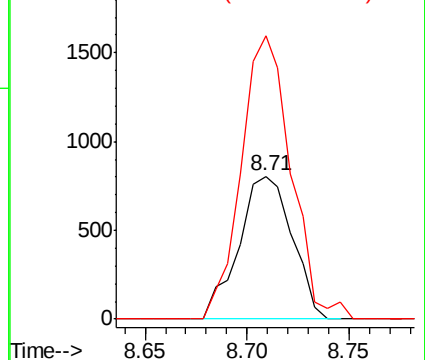
43 100

58 185.2 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 0.262 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. -0.24 min

Lab File: VX012635.D

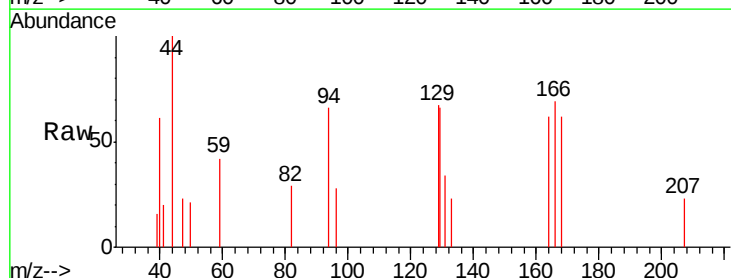
Acq: 24 Sep 2019 16:07

Tgt Ion: 129 Resp: 492

Ion Ratio Lower Upper

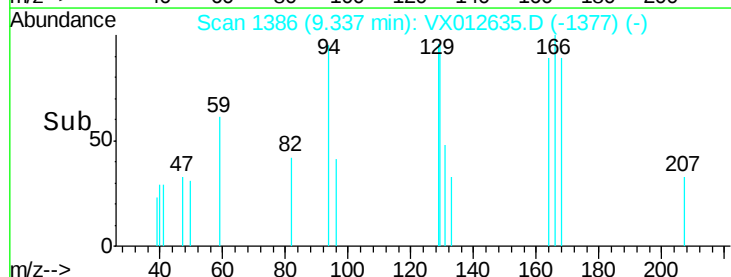
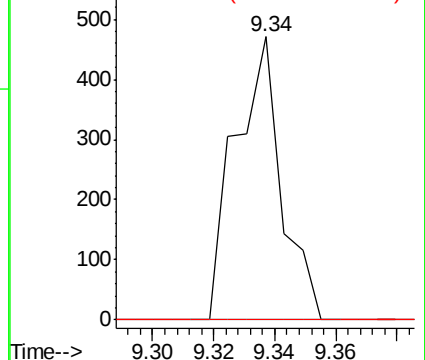
129 100

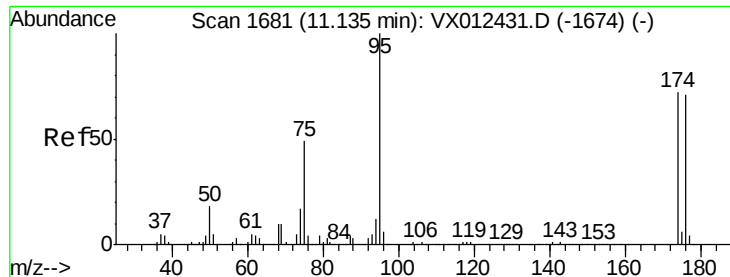
127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

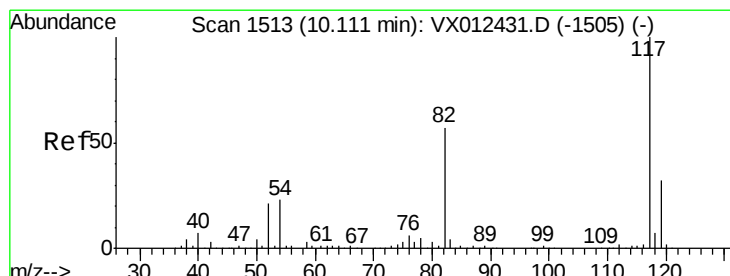
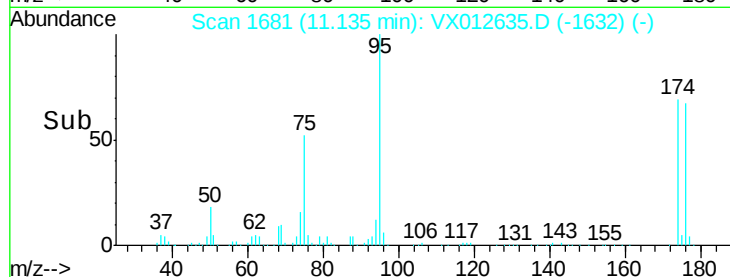
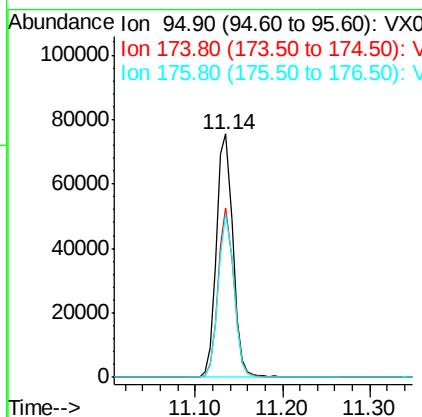
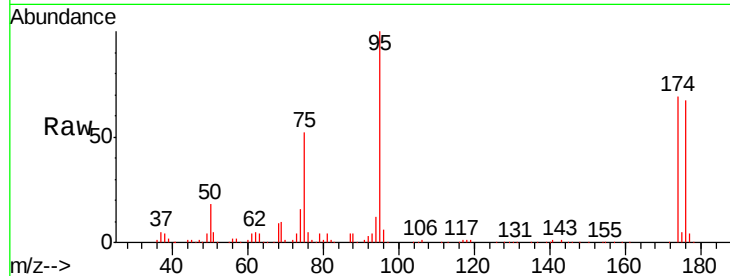




#62
4-Bromofluorobenzene
Concen: 41.496 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012635.D
Acq: 24 Sep 2019 16:07

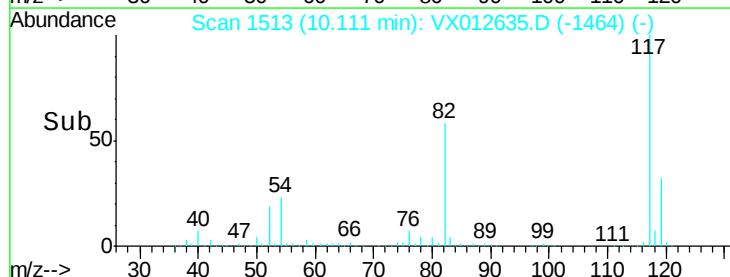
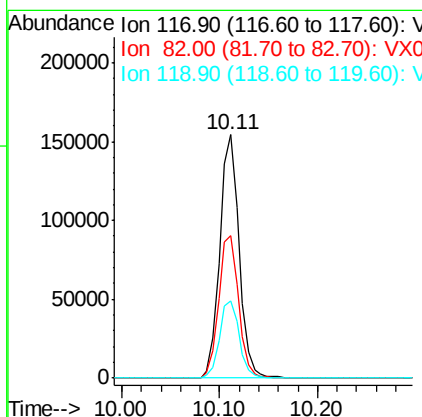
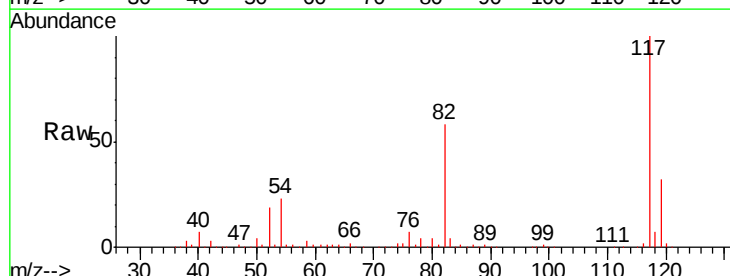
Instrument :
MSVOA_X
ClientSampled :
S49-0544

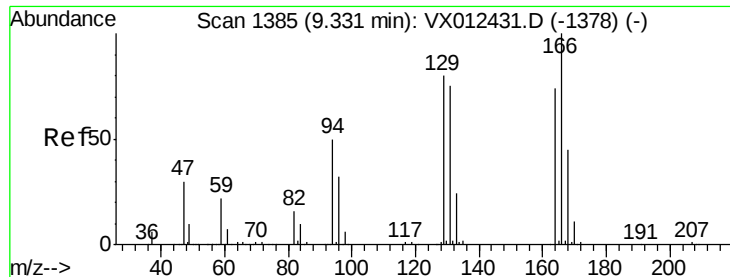
Tgt Ion: 95 Resp: 97887
Ion Ratio Lower Upper
95 100
174 66.0 0.0 140.0
176 63.5 0.0 135.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012635.D
Acq: 24 Sep 2019 16:07

Tgt Ion: 117 Resp: 211651
Ion Ratio Lower Upper
117 100
82 58.4 45.9 68.9
119 31.8 25.3 37.9





#64

Tetrachloroethene

Concen: 0.236 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0544

Tgt Ion:164 Resp: 348

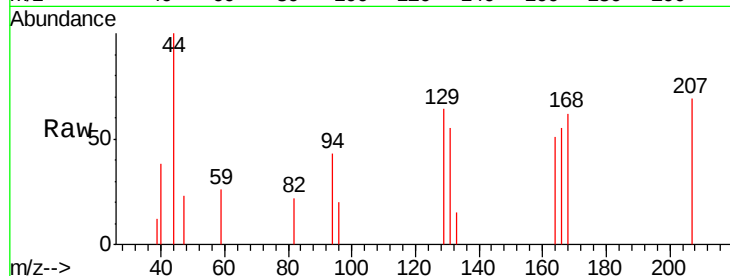
Ion Ratio Lower Upper

164 100

166 109.8 107.8 161.6

129 127.0 86.2 129.2

131 108.6 80.4 120.6

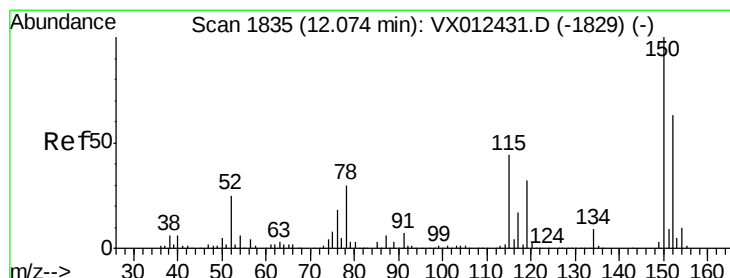
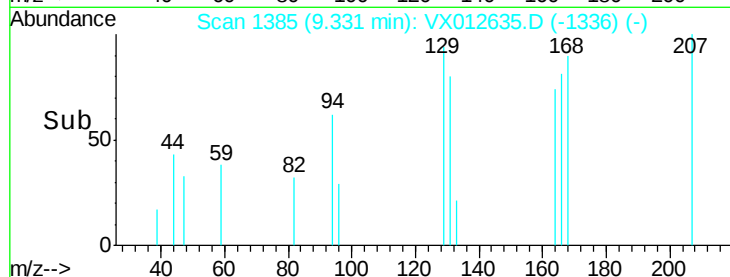
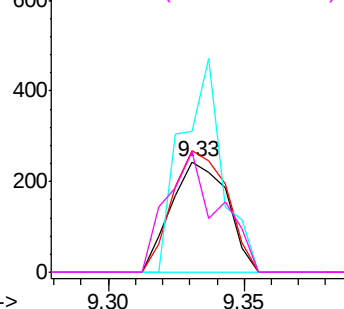


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

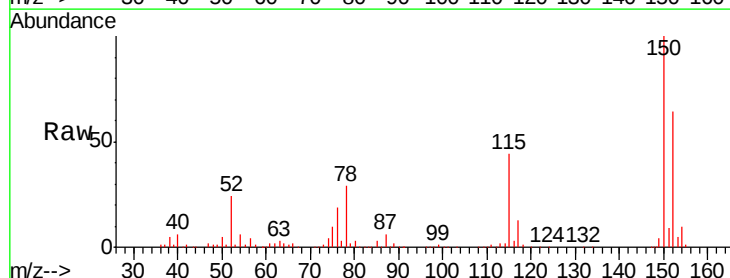
Tgt Ion:152 Resp: 71758

Ion Ratio Lower Upper

152 100

115 66.6 44.1 132.3

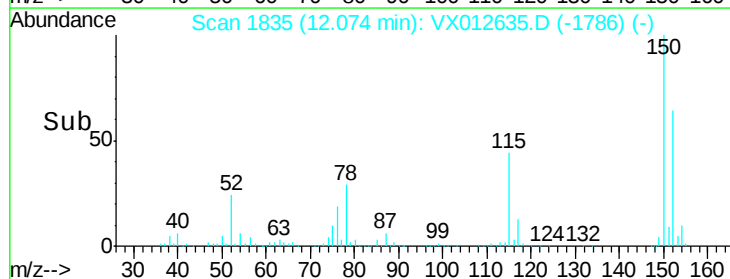
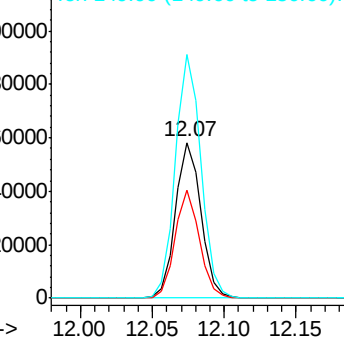
150 157.7 0.0 343.8

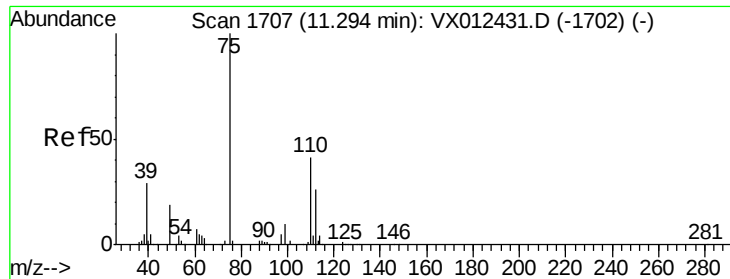


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.488 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

Instrument :

MSVOA_X

ClientSampleId :

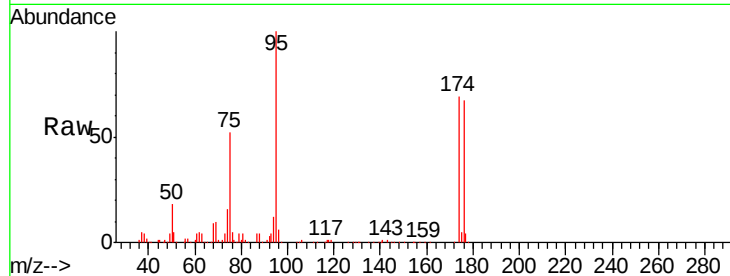
S49-0544

Tgt Ion: 75 Resp: 50279

Ion Ratio Lower Upper

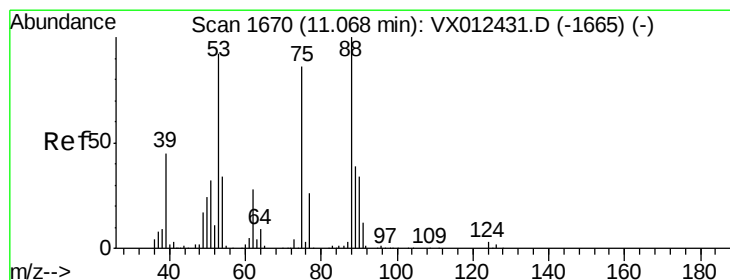
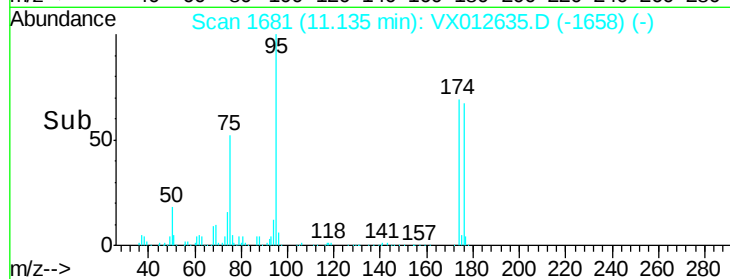
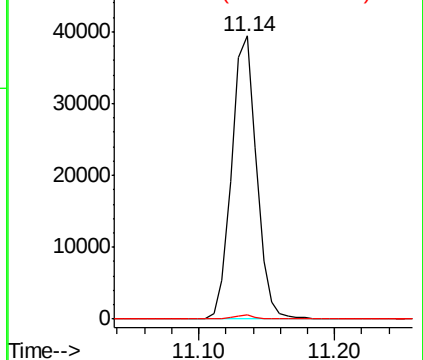
75 100

77 1.3 19.7 59.0#



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: 75.909 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012635.D

Acq: 24 Sep 2019 16:07

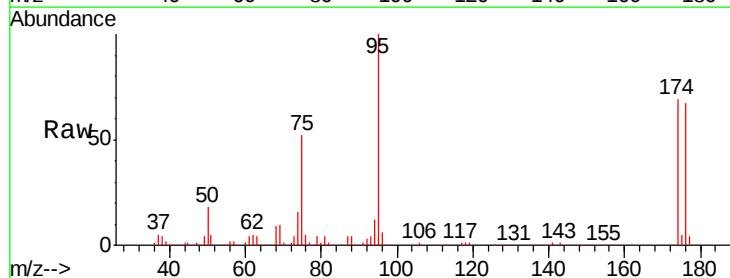
Tgt Ion: 75 Resp: 50279

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.1 36.3 54.5#



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

