

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004565.D
 Acq On : 15 Sep 2018 05:49
 Operator : JC/MD
 Sample : J4925-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0255

Quant Time: Sep 17 00:54:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	365704	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	341433	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183848	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	174582	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
35) Dibromofluoromethane	5.50	113	158978	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	8.71	98	514602	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
62) 4-Bromofluorobenzene	11.14	95	177502	44.31	ug/l	0.00
Spiked Amount			Recovery	=	88.62%	

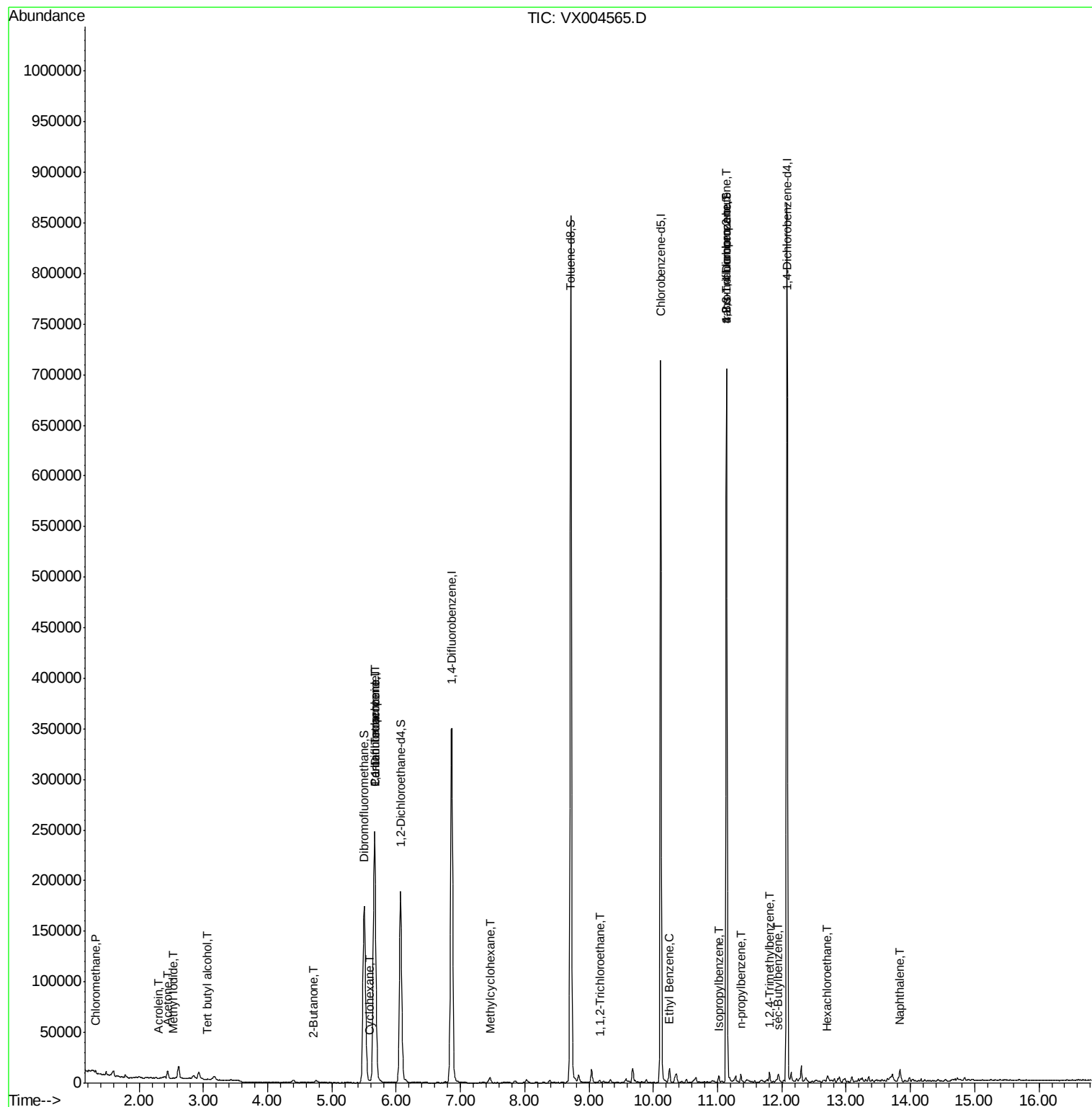
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1668	0.49	ug/l	# 87
5) Bromomethane	1.65	94	849	Below	Cal	# 71
10) Methyl Iodide	2.53	142	455	4.37	ug/l	# 93
11) Tert butyl alcohol	3.06	59	533	0.66	ug/l	96
13) Acrolein	2.31	56	131	0.41	ug/l	# 16
16) Acetone	2.44	43	7852	4.72	ug/l	95
25) 2-Butanone	4.70	43	856	0.32	ug/l	93
31) Cyclohexane	5.58	56	1263	0.26	ug/l	93
36) 1,1-Dichloropropene	5.67	75	16980	3.82	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	22412	5.17	ug/l	# 16
39) Methylcyclohexane	7.46	83	1982	0.43	ug/l	# 80
55) 1,1,2-Trichloroethane	9.16	97	758	0.23	ug/l	# 16
67) Ethyl Benzene	10.25	91	7258	0.53	ug/l	97
73) Isopropylbenzene	11.02	105	3258	0.27	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	83617	22.61	ug/l	# 37
78) n-propylbenzene	11.36	91	3276	0.24	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	83617	72.06	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	3963	0.38	ug/l	97
85) sec-Butylbenzene	11.94	105	3423	0.28	ug/l	85
90) Hexachloroethane	12.70	117	1099	0.63	ug/l	# 3
95) Naphthalene	13.83	128	7520	0.60	ug/l	# 93

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

Instrument :

MSVOA_X

ClientSampleId :

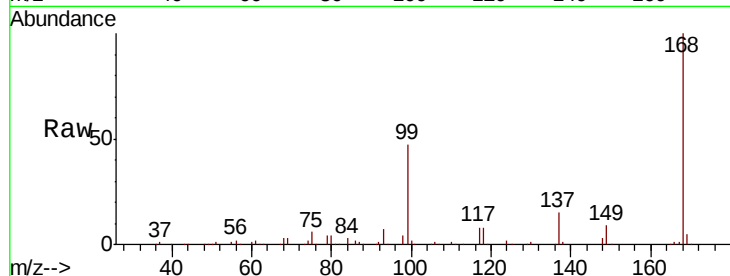
S13-0255

Tot Ion:168 Resp: 264201

Ion Ratio Lower Upper

168 100

99 46.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

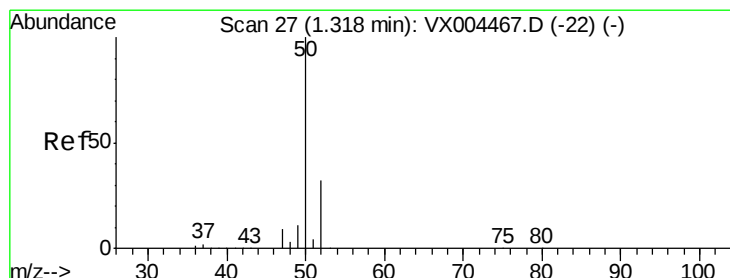
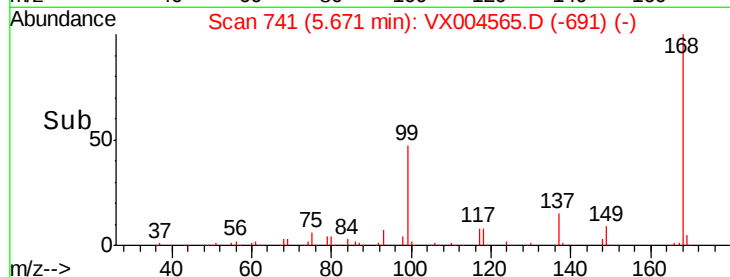
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.49 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004565.D

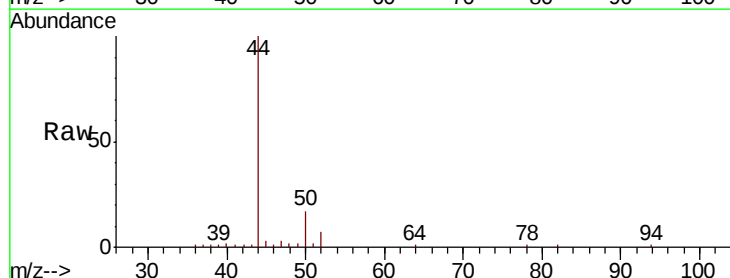
Acq: 15 Sep 2018 05:49

Tgt Ion: 50 Resp: 1668

Ion Ratio Lower Upper

50 100

52 39.7 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

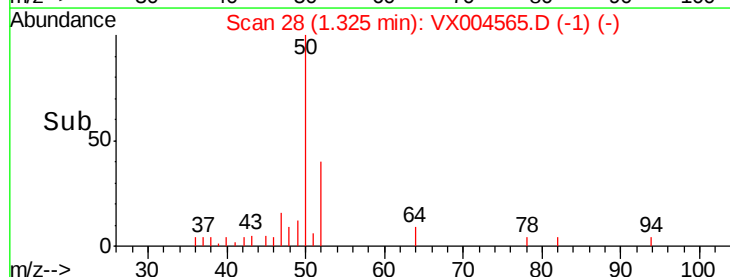
1500

1000

500

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

Instrument :

MSVOA_X

ClientSampleId :

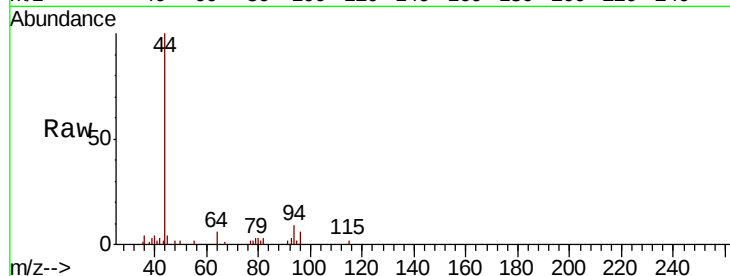
S13-0255

Tot Ion: 94 Resp: 849

Ion Ratio Lower Upper

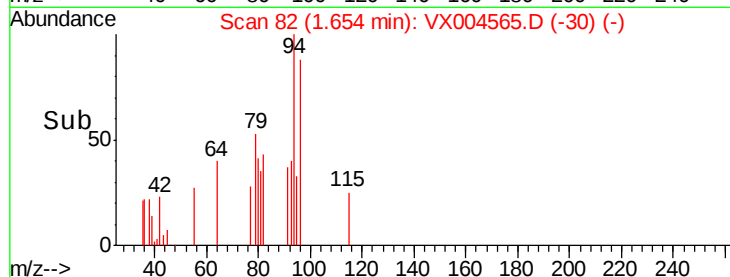
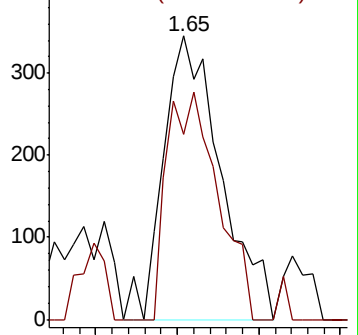
94 100

96 65.5 74.5 111.7#

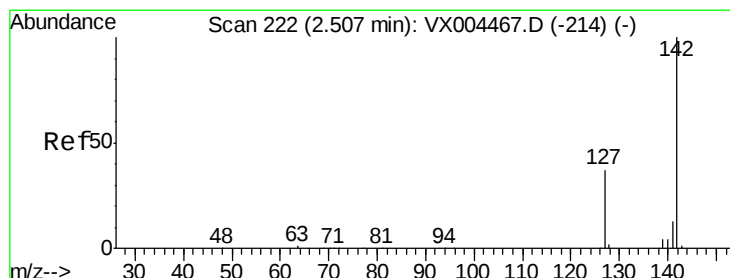


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.37 ug/l

RT: 2.53 min Scan# 226

Delta R.T. 0.02 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

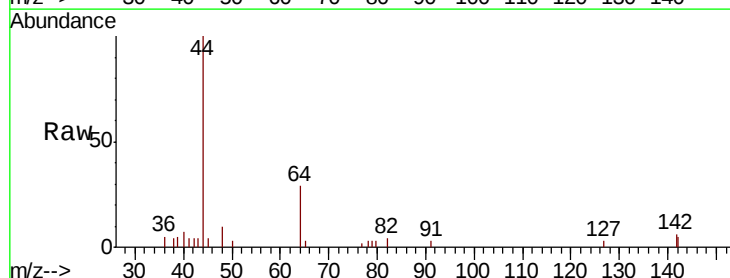
Tgt Ion: 142 Resp: 455

Ion Ratio Lower Upper

142 100

127 38.0 33.8 50.6

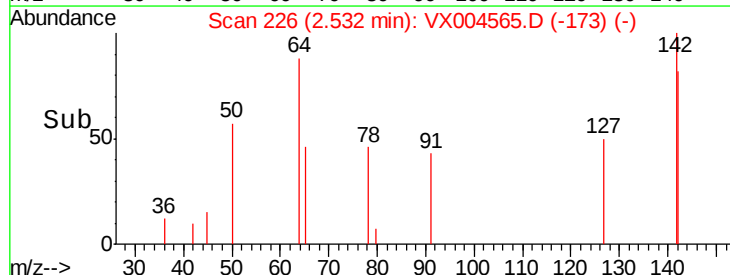
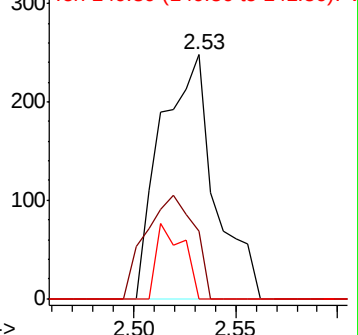
141 10.5 11.4 17.0#



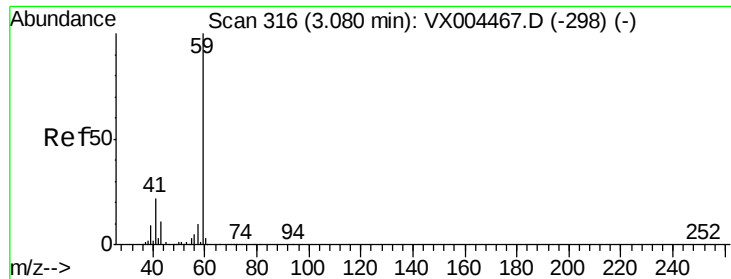
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



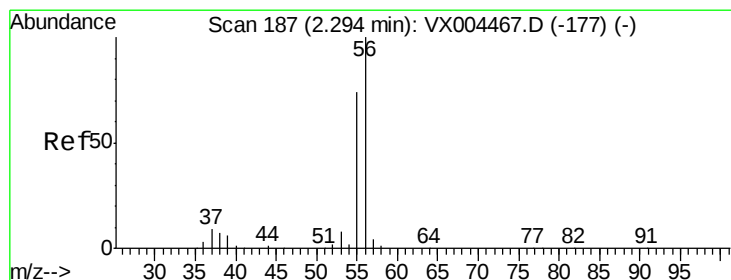
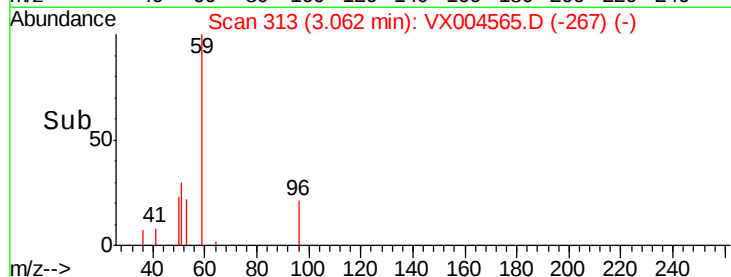
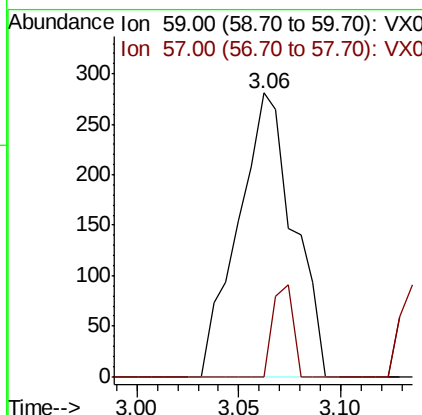
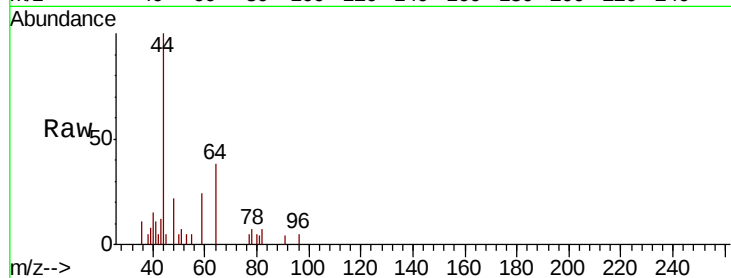
Time-->



#11
Tert butyl alcohol
Concen: 0.66 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

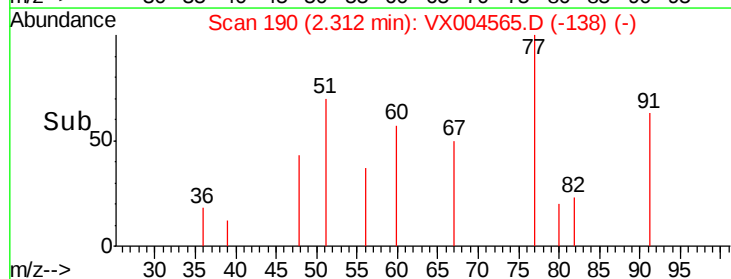
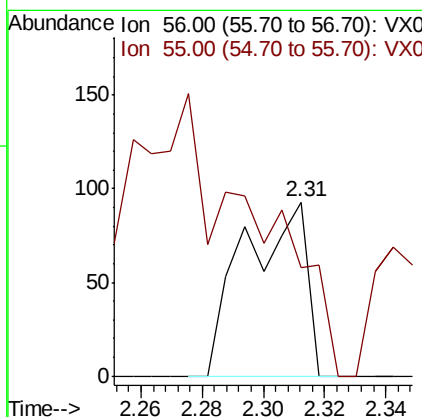
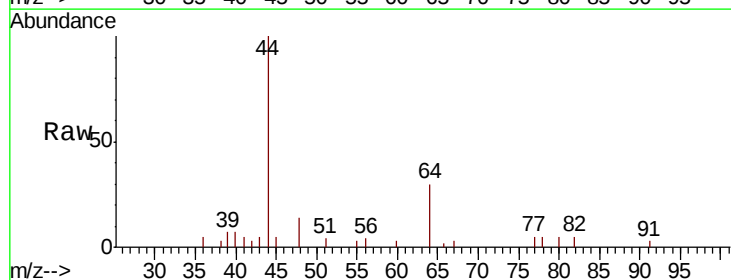
Instrument :
MSVOA_X
ClientSampleId :
S13-0255

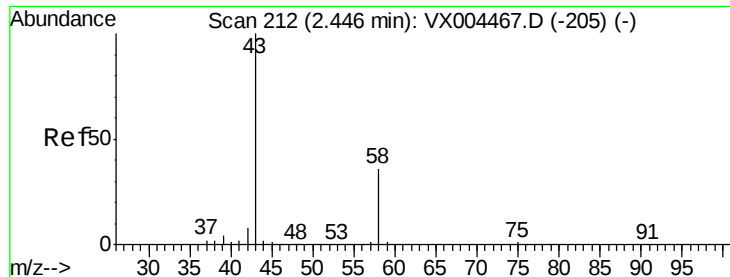
Tot Ion: 59 Resp: 533
Ion Ratio Lower Upper
59 100
57 11.8 8.2 12.4



#13
Acrolein
Concen: 0.41 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Tgt Ion: 56 Resp: 131
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#

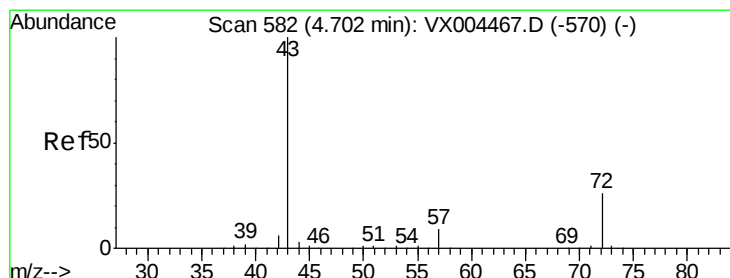
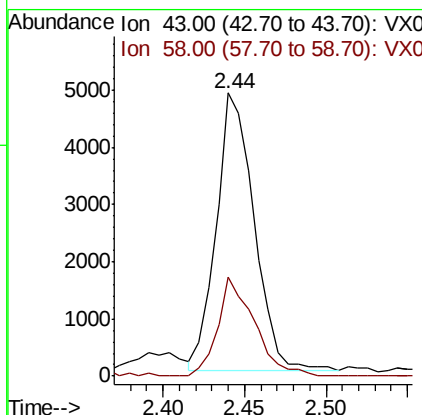
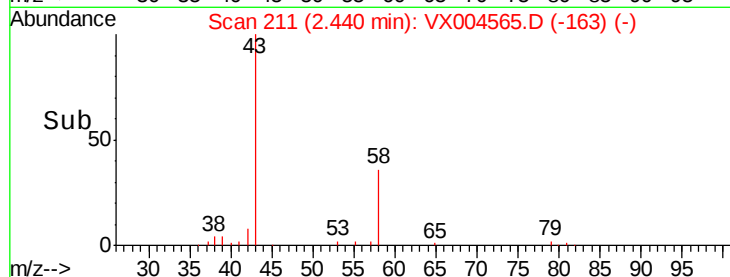
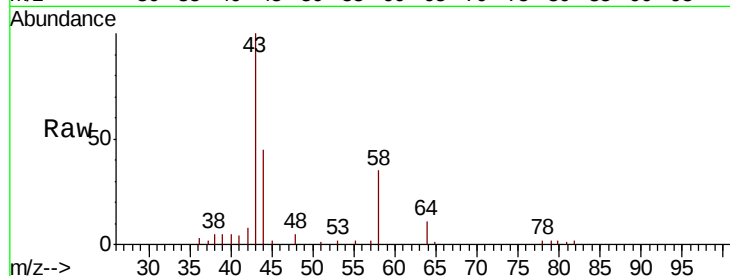




#16
Acetone
Concen: 4.72 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

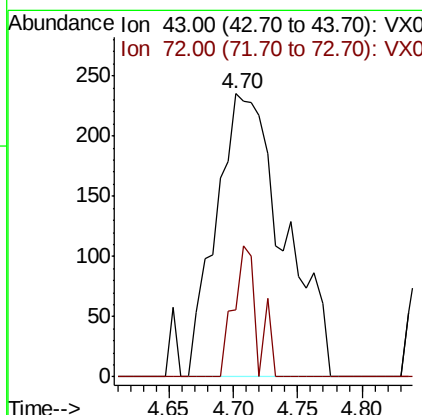
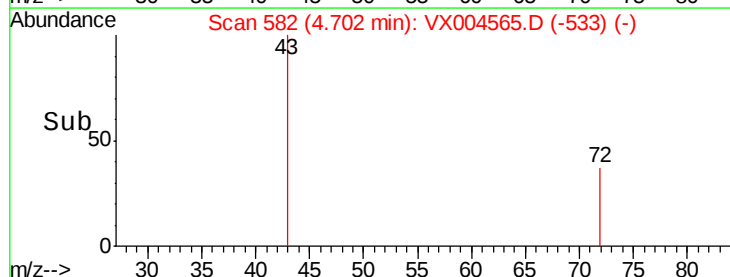
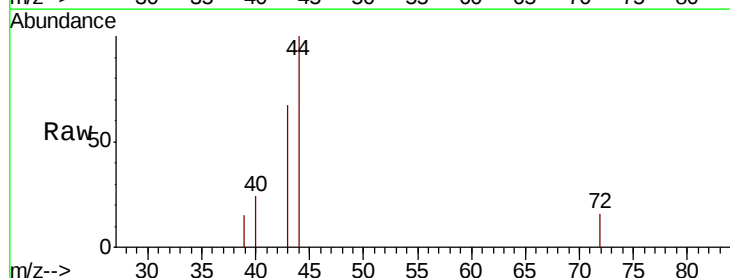
Instrument :
MSVOA_X
ClientSampled :
S13-0255

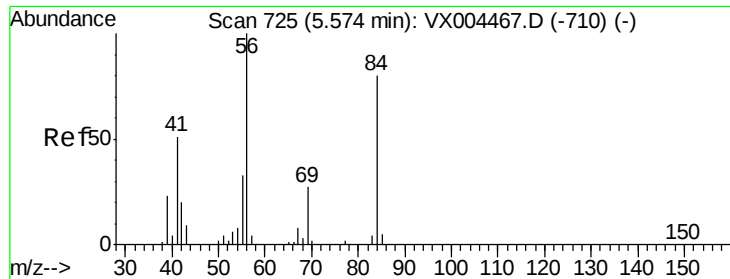
Tot Ion: 43 Resp: 7852
Ion Ratio Lower Upper
43 100
58 35.7 26.2 39.4



#25
2-Butanone
Concen: 0.32 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Tgt Ion: 43 Resp: 856
Ion Ratio Lower Upper
43 100
72 23.8 22.0 33.0

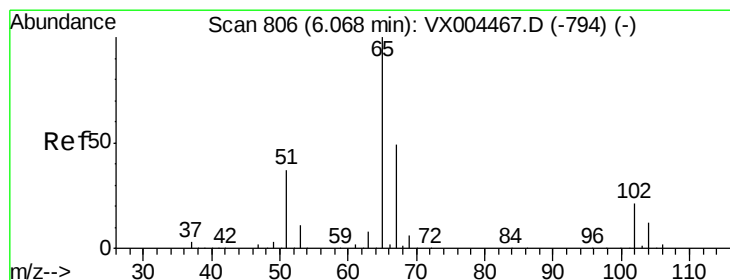
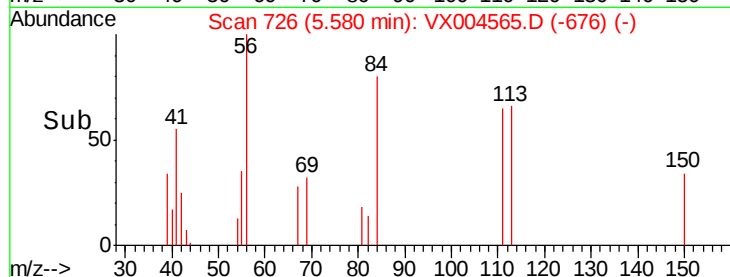
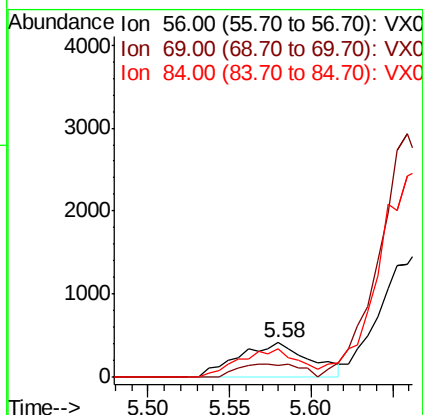
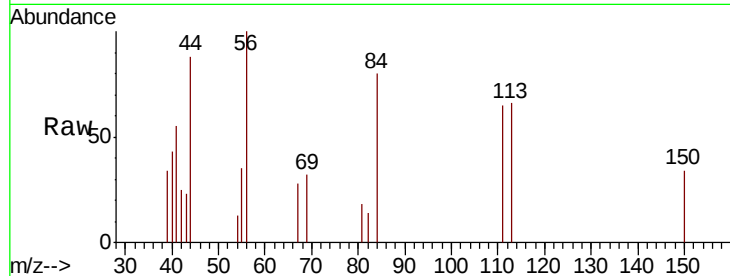




#31
Cyclohexane
Concen: 0.26 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.01 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

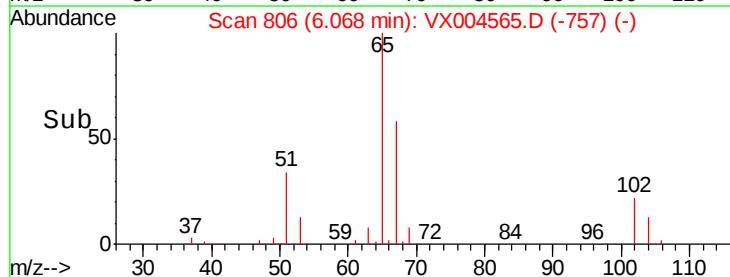
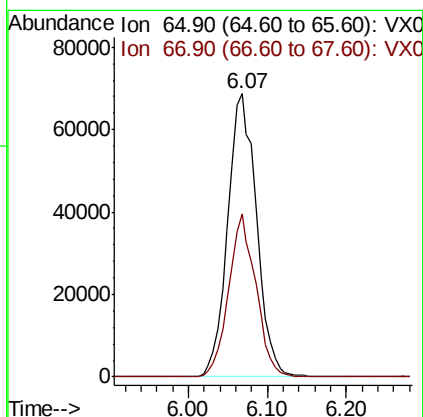
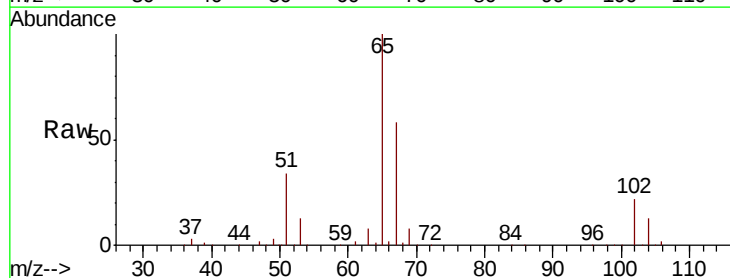
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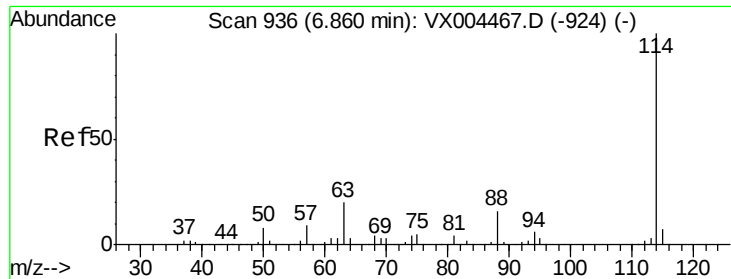
Tot Ion: 56 Resp: 1263
Ion Ratio Lower Upper
56 100
69 32.4 25.4 38.2
84 80.5 71.4 107.2



#33
1,2-Dichloroethane-d4
Concen: 51.25 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Tgt Ion: 65 Resp: 174582
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.8

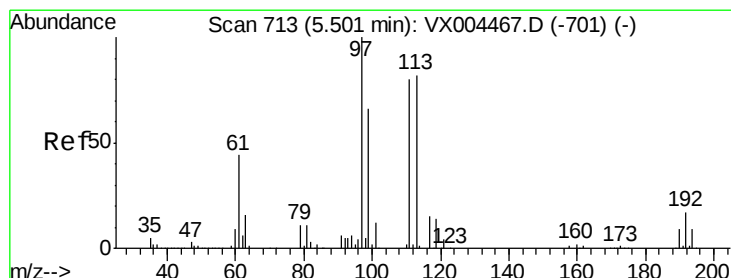
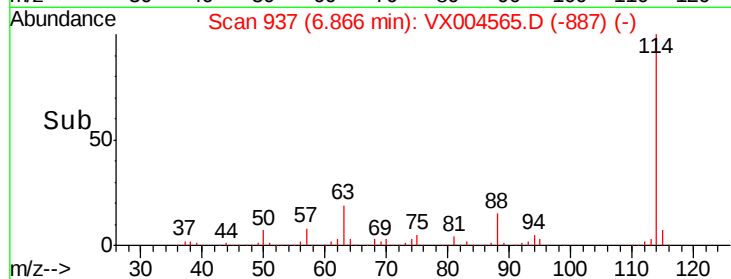
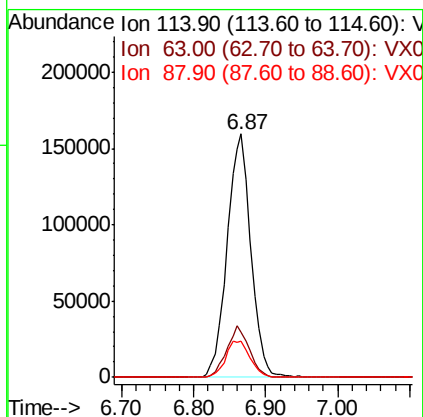
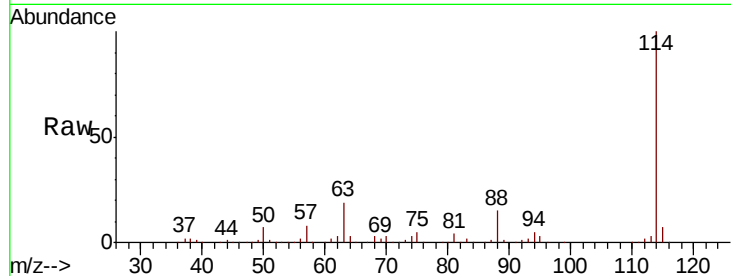




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004565.D
 Acq: 15 Sep 2018 05:49

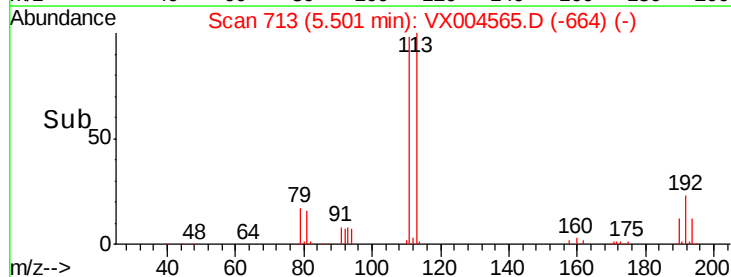
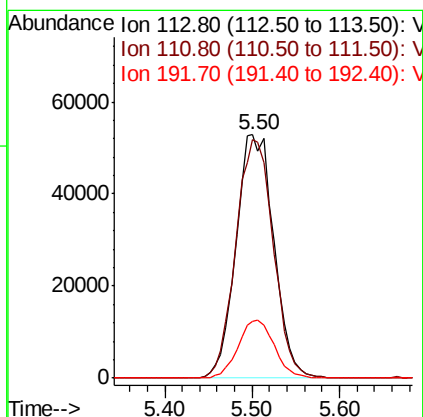
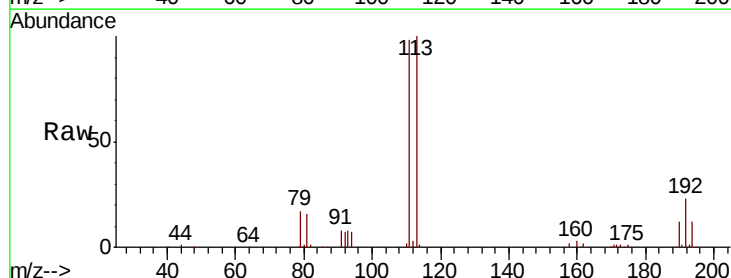
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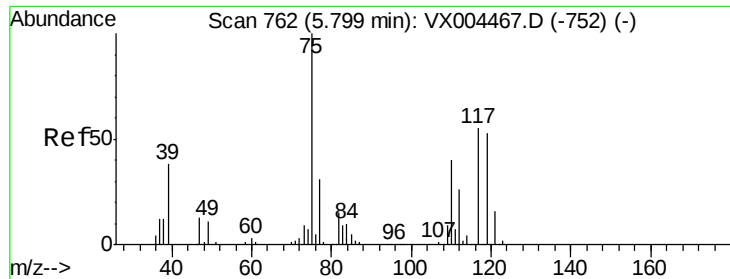
Tot Ion:114 Resp: 365704
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.0
 88 15.0 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 47.51 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004565.D
 Acq: 15 Sep 2018 05:49

Tgt Ion:113 Resp: 158978
 Ion Ratio Lower Upper
 113 100
 111 97.3 82.4 123.6
 192 22.7 19.4 29.2

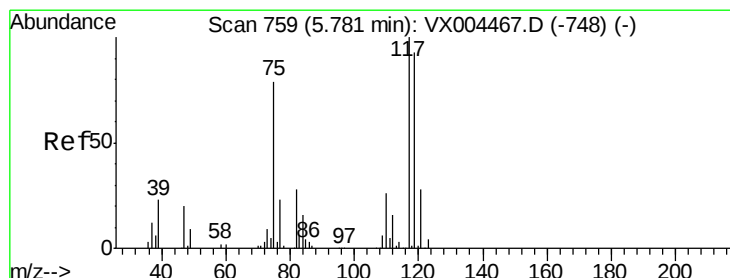
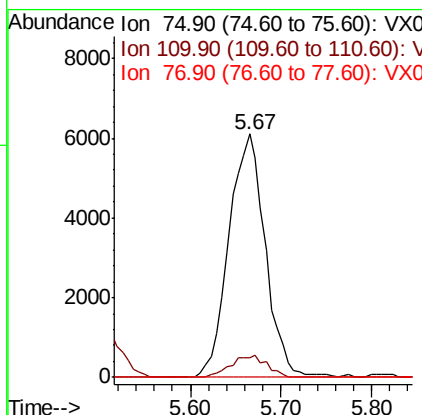
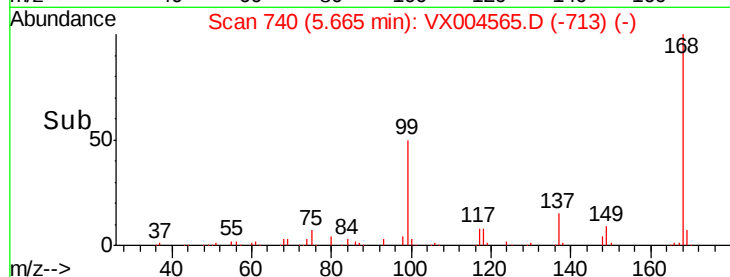
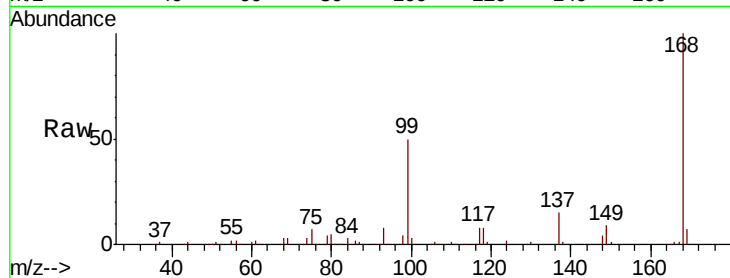




#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004565.D
 Acq: 15 Sep 2018 05:49

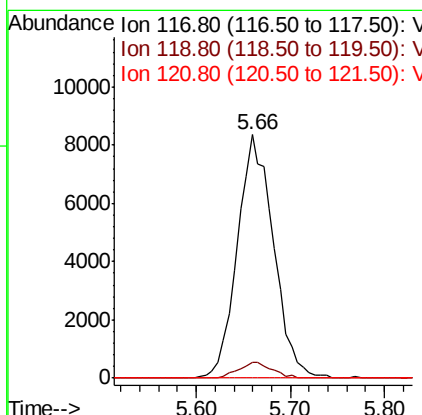
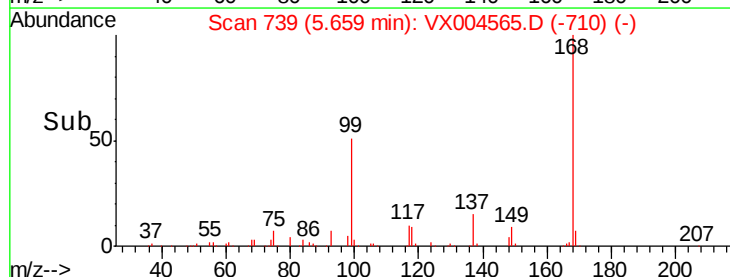
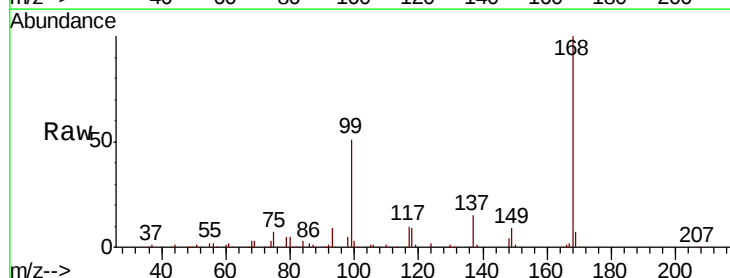
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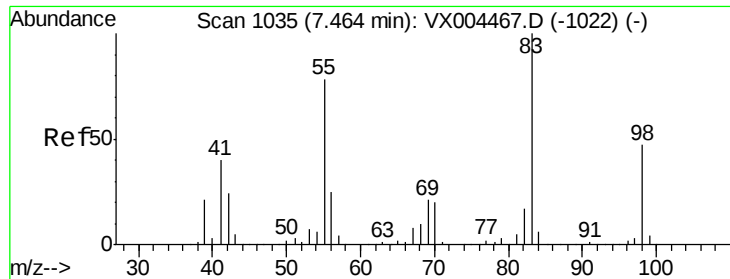
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.17 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004565.D
 Acq: 15 Sep 2018 05:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.7	78.8	118.2#
121	0.0	24.9	37.3#

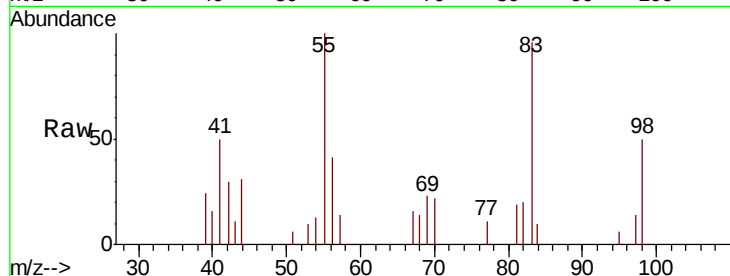




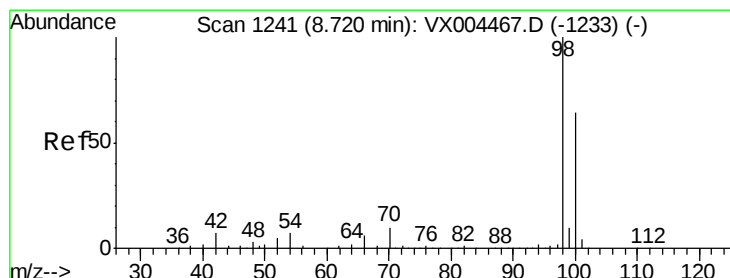
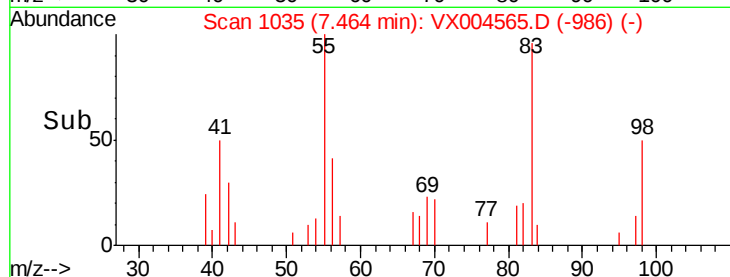
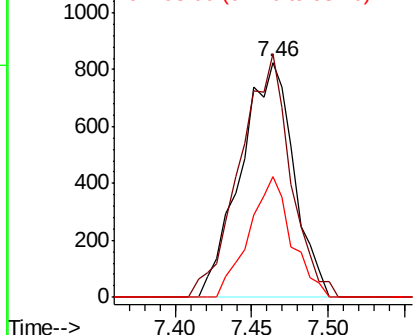
#39
Methvlcvclohexane
Concen: 0.43 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Instrument :
MSVOA_X
ClientSampled :
S13-0255

Tot Ion: 83 Resp: 1982
Ion Ratio Lower Upper
83 100
55 103.6 61.0 91.4#
98 51.5 39.6 59.4

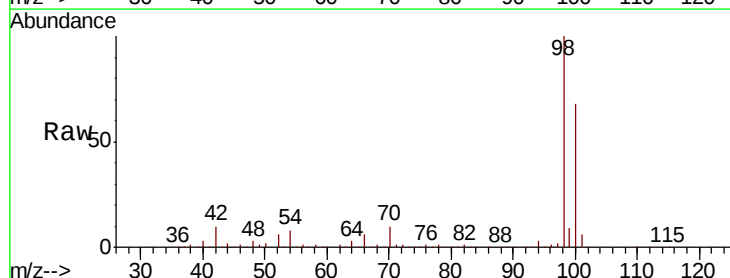


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

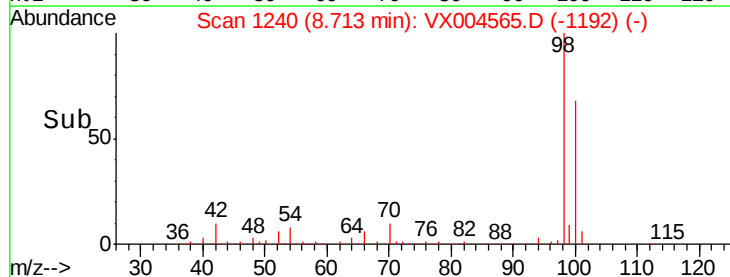
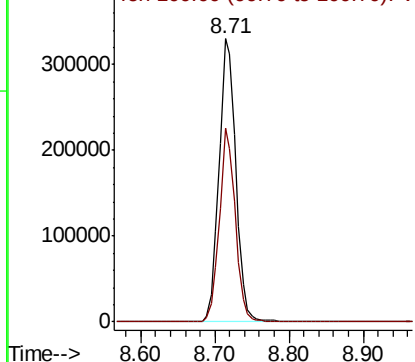


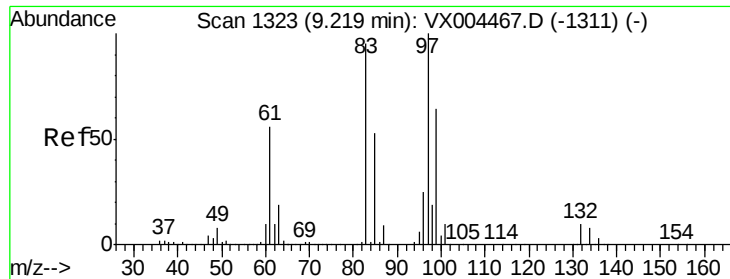
#50
Toluene-d8
Concen: 45.85 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Tgt Ion: 98 Resp: 514602
Ion Ratio Lower Upper
98 100
100 64.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#55

1,1,2-Trichloroethane

Concen: 0.23 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

Instrument :

MSVOA_X

ClientSampleId :

S13-0255

Tot Ion: 97 Resp: 758

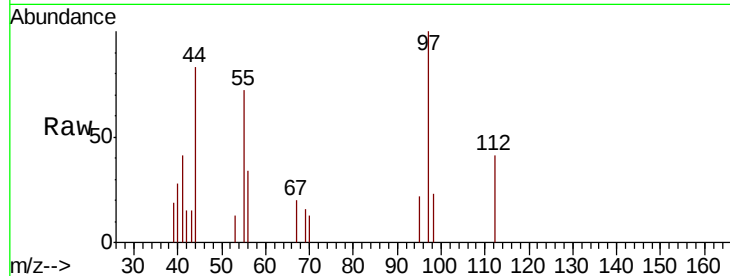
Ion Ratio Lower Upper

97 100

83 0.0 66.4 99.6#

85 0.0 43.3 64.9#

99 0.0 49.0 73.4#



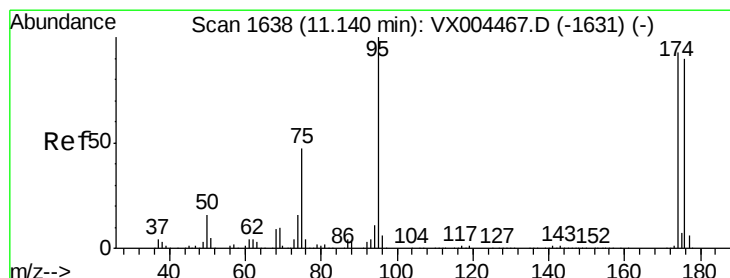
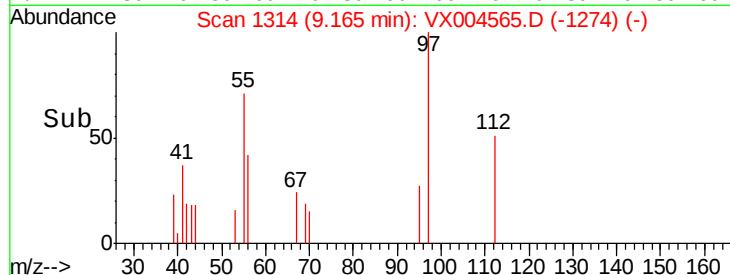
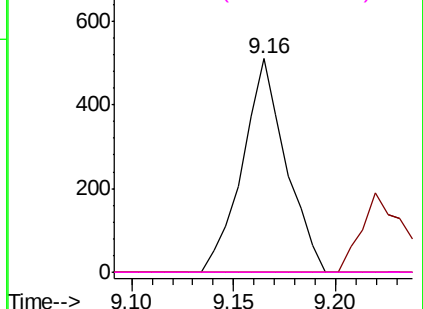
Abundance

Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#62

4-Bromofluorobenzene

Concen: 44.31 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

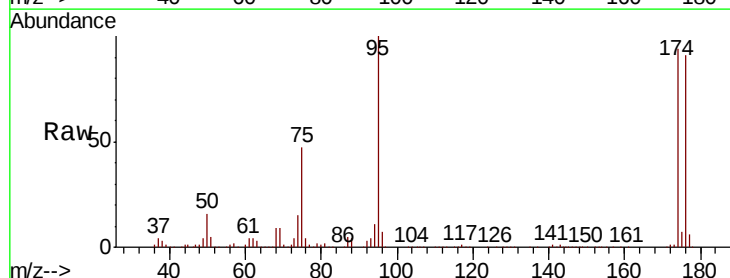
Tgt Ion: 95 Resp: 177502

Ion Ratio Lower Upper

95 100

174 92.8 0.0 185.2

176 89.1 0.0 178.6

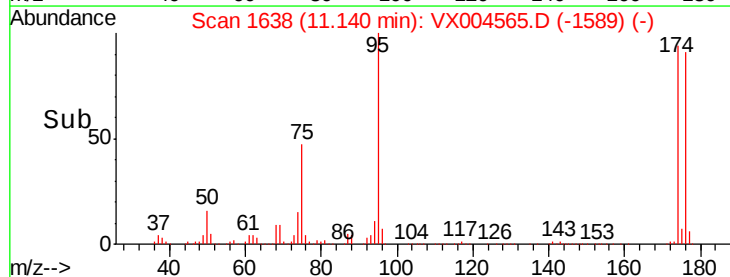
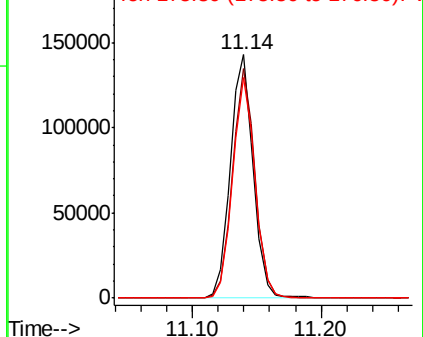


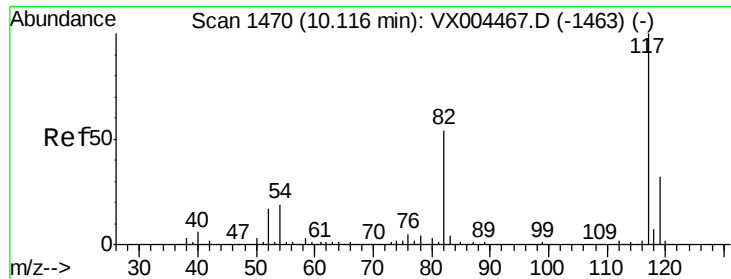
Abundance

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

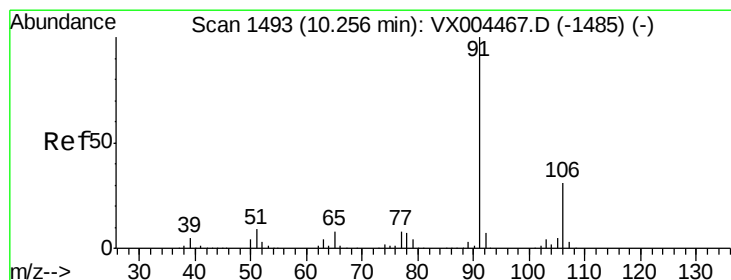
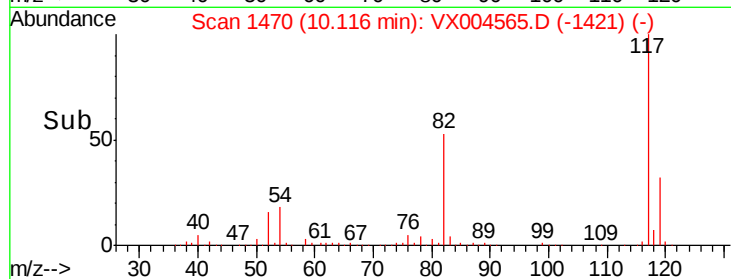
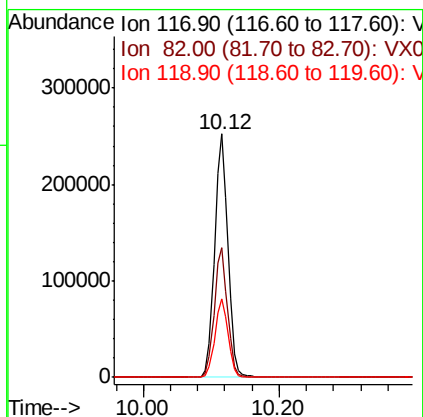
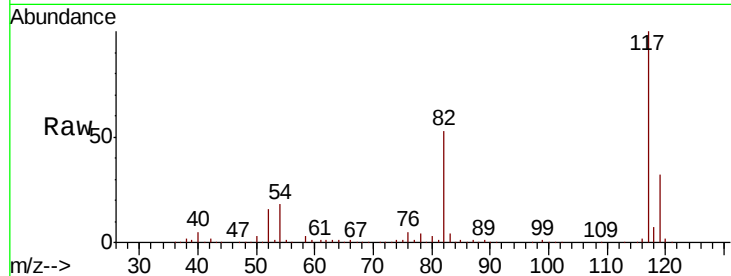




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

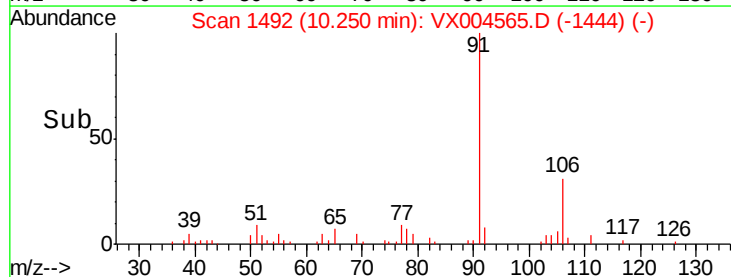
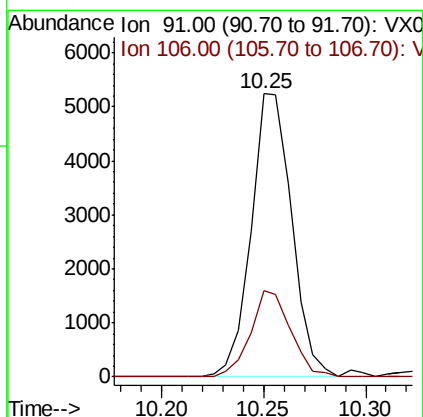
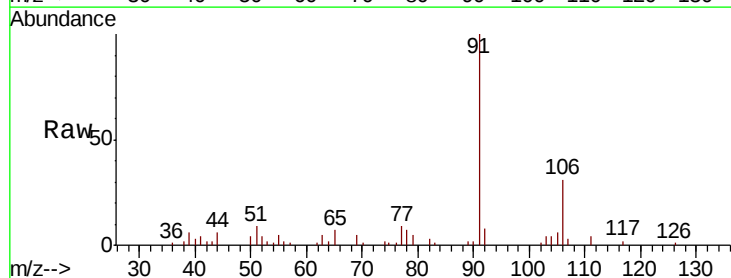
Instrument :
MSVOA_X
ClientSampleId :
S13-0255

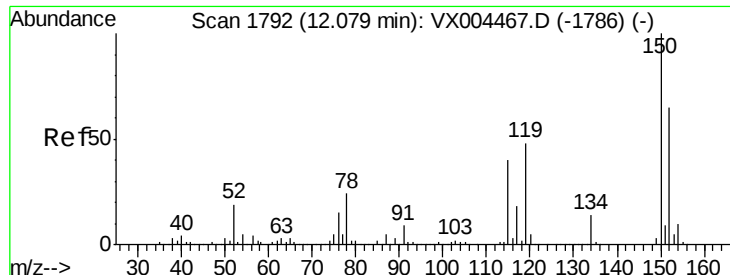
Tot Ion:117 Resp: 341433
Ion Ratio Lower Upper
117 100
82 53.3 47.8 71.6
119 32.2 29.3 43.9



#67
Ethyl Benzene
Concen: 0.53 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Tgt Ion: 91 Resp: 7258
Ion Ratio Lower Upper
91 100
106 30.6 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

Instrument :

MSVOA_X

ClientSampleId :

S13-0255

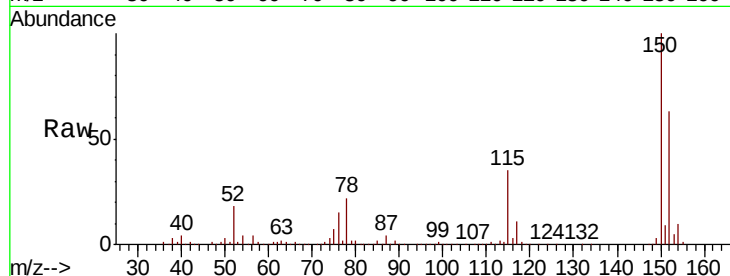
Tot Ion:152 Resp: 183848

Ion Ratio Lower Upper

152 100

115 55.2 39.0 117.0

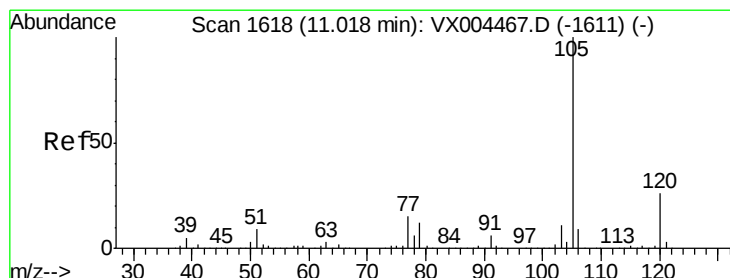
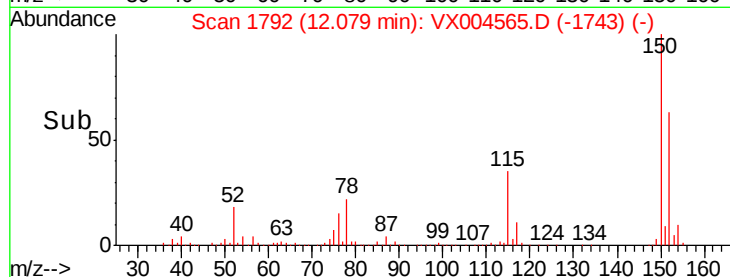
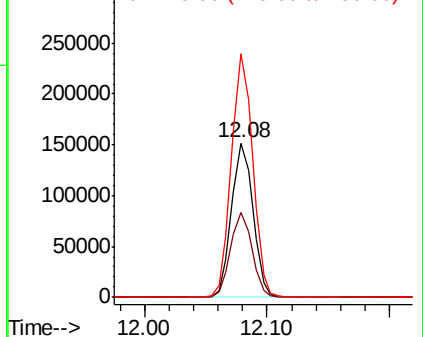
150 156.6 0.0 351.0



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



#73

Isopropylbenzene

Concen: 0.27 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX004565.D

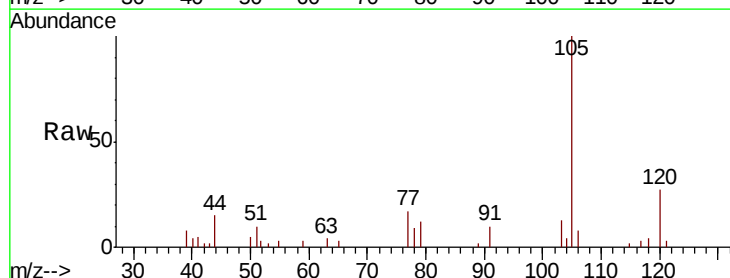
Acq: 15 Sep 2018 05:49

Tgt Ion:105 Resp: 3258

Ion Ratio Lower Upper

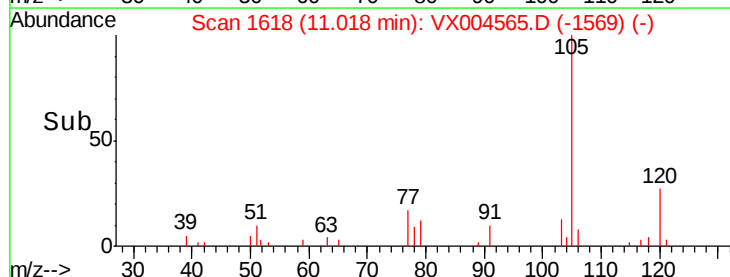
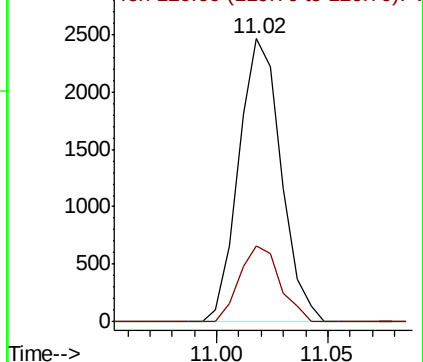
105 100

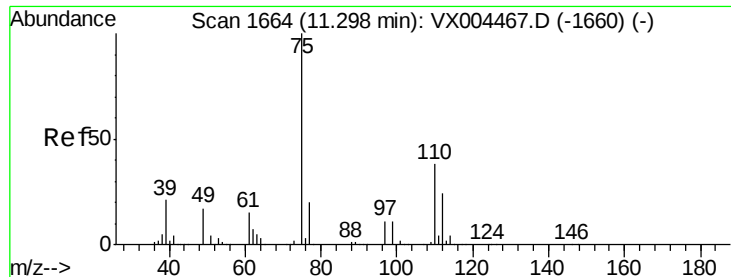
120 25.6 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 22.61 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

Instrument :

MSVOA_X

ClientSampleId :

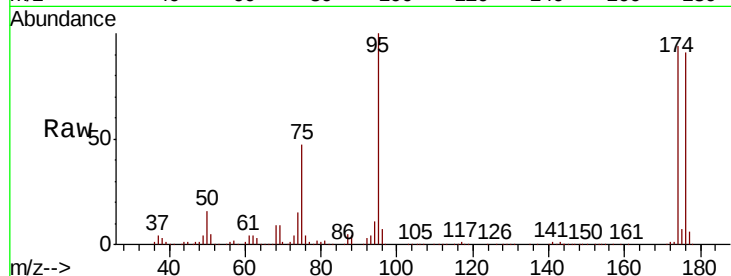
S13-0255

Tot Ion: 75 Resp: 83617

Ion Ratio Lower Upper

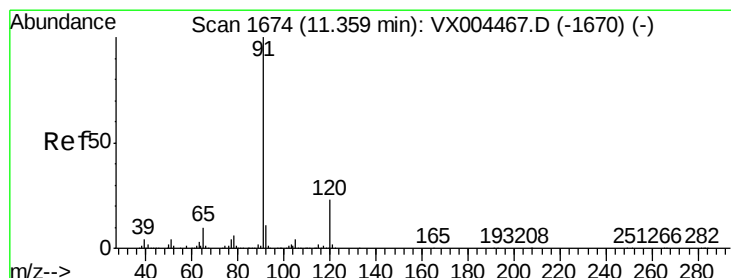
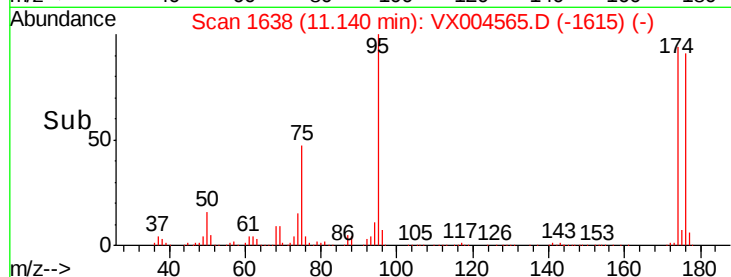
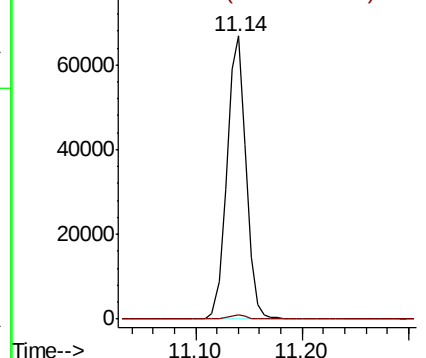
75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#78

n-propylbenzene

Concen: 0.24 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX004565.D

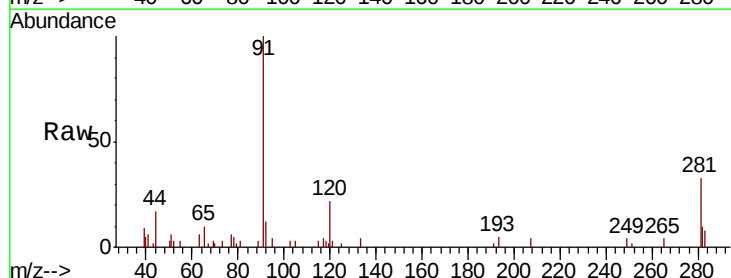
Acq: 15 Sep 2018 05:49

Tgt Ion: 91 Resp: 3276

Ion Ratio Lower Upper

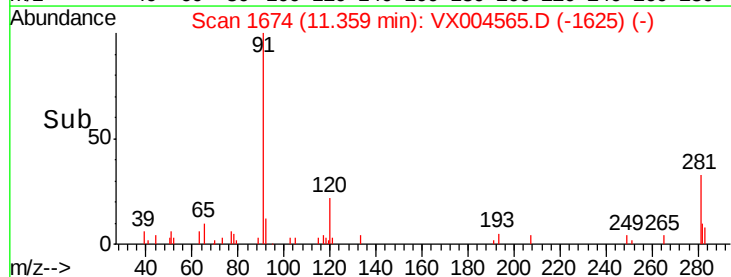
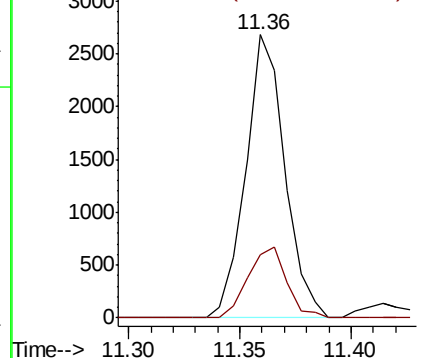
91 100

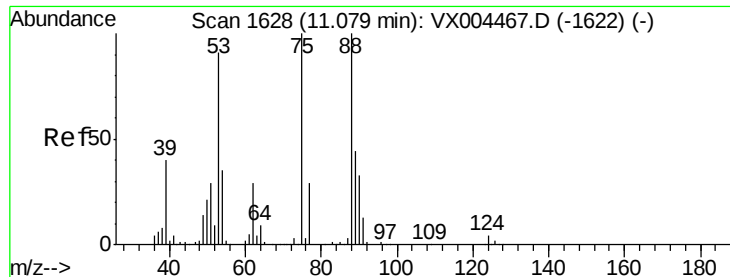
120 24.6 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 72.06 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004565.D

Acq: 15 Sep 2018 05:49

Instrument :

MSVOA_X

ClientSampleId :

S13-0255

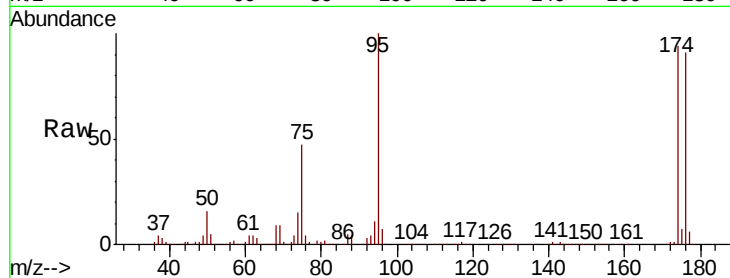
Tot Ion: 75 Resp: 83617

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

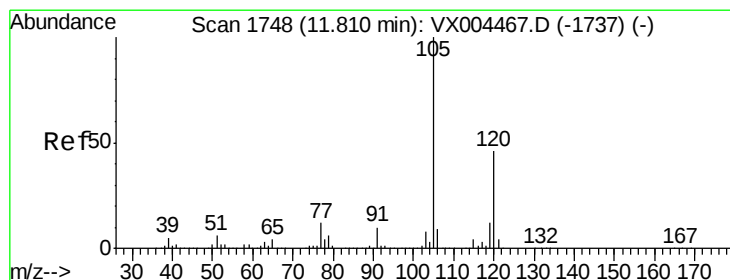
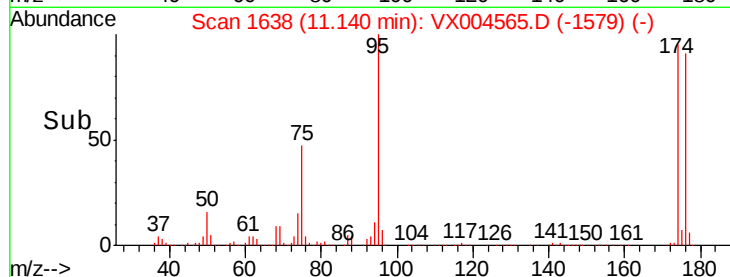
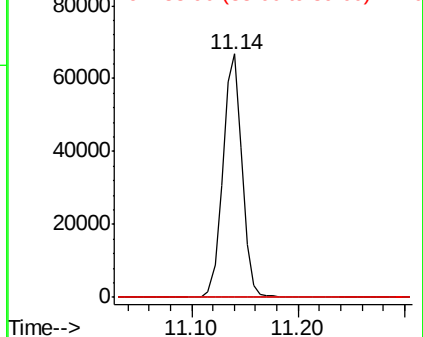
89 0.0 37.2 55.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.38 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.00 min

Lab File: VX004565.D

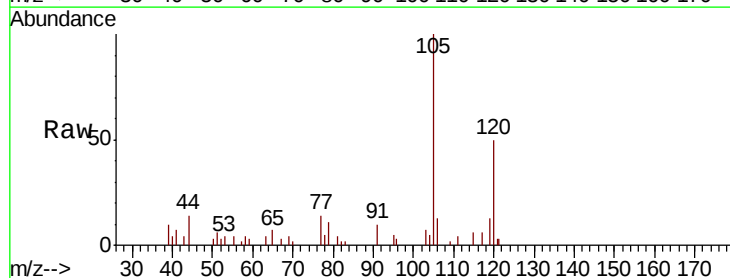
Acq: 15 Sep 2018 05:49

Tgt Ion: 105 Resp: 3963

Ion Ratio Lower Upper

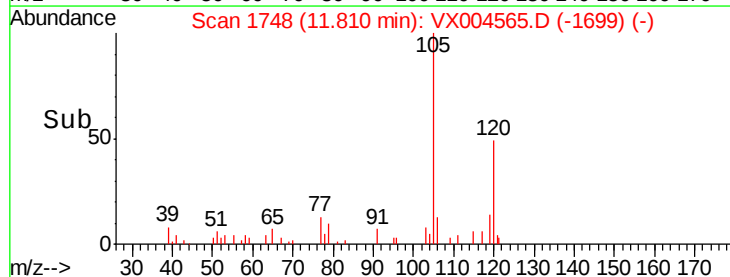
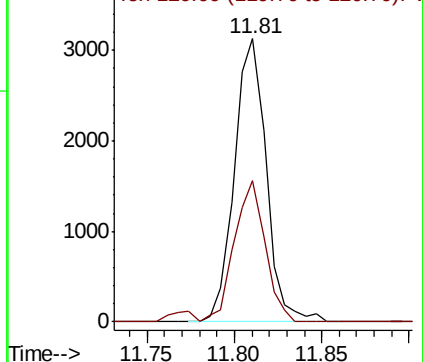
105 100

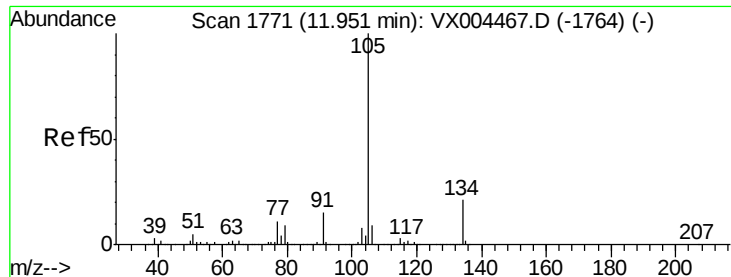
120 48.2 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

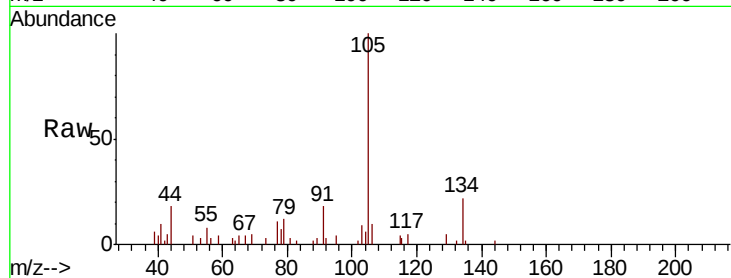




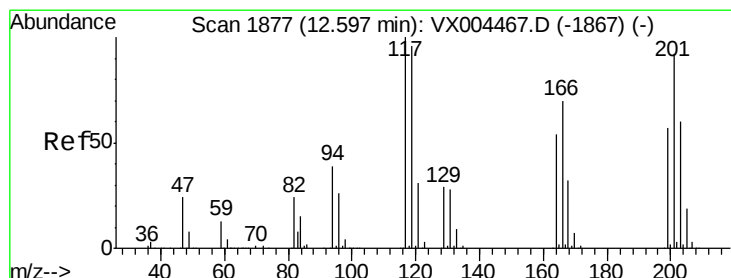
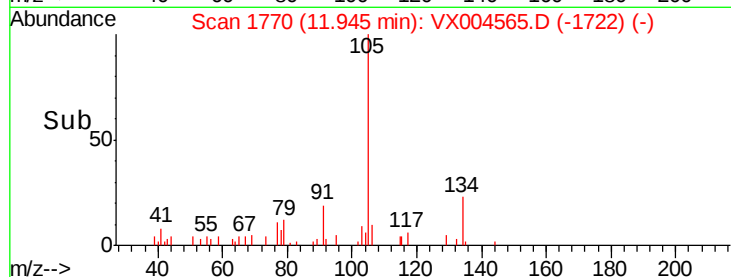
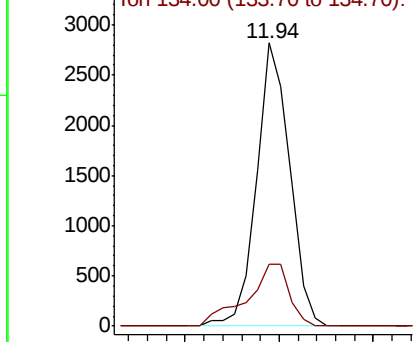
#85
 sec-Butylbenzene
 Concen: 0.28 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.01 min
 Lab File: VX004565.D
 Acq: 15 Sep 2018 05:49

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0255

Tot Ion:105 Resp: 3423
 Ion Ratio Lower Upper
 105 100
 134 28.1 10.5 31.5

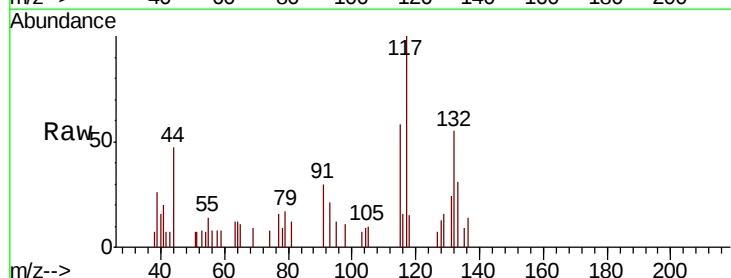


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

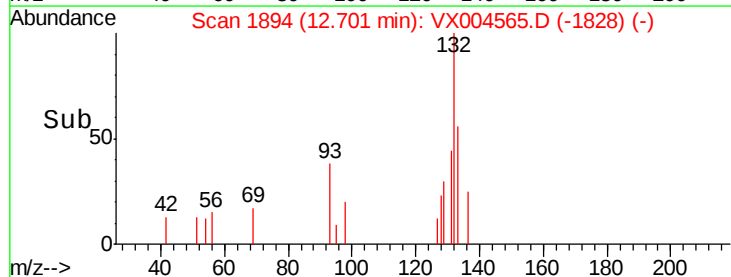
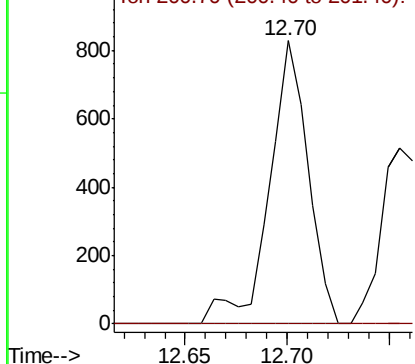


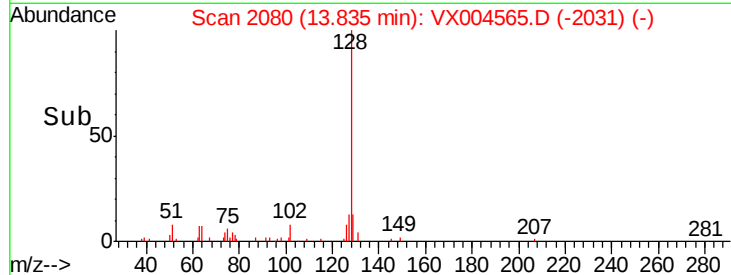
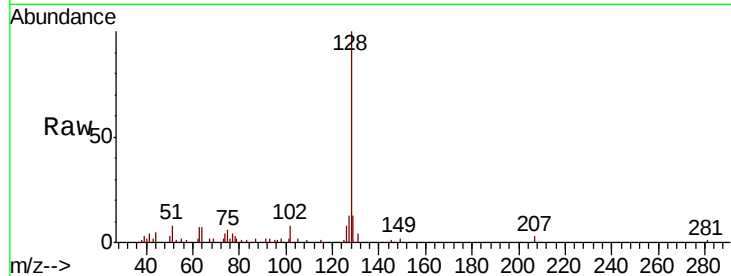
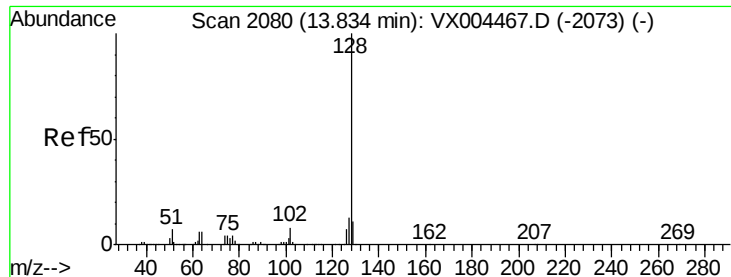
#90
 Hexachloroethane
 Concen: 0.63 ug/l
 RT: 12.70 min Scan# 1894
 Delta R.T. 0.10 min
 Lab File: VX004565.D
 Acq: 15 Sep 2018 05:49

Tgt Ion:117 Resp: 1099
 Ion Ratio Lower Upper
 117 100
 201 0.0 46.9 140.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 0.60 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX004565.D
Acq: 15 Sep 2018 05:49

Instrument :
MSVOA_X
ClientSampleId :
S13-0255

Tot Ion:128 Resp: 7520
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.2
129 16.5 8.6 12.8#

