

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008905.D
 Acq On : 12 Apr 2019 23:18
 Operator : JC/SP
 Sample : K2311-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 0236-COMP-CS-1-ELTRT-DISS

Quant Time: Apr 13 05:04:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	187609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	301073	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	260543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110865	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	124721	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	
35) Dibromofluoromethane	5.50	113	90115	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
50) Toluene-d8	8.71	98	377870	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	11.13	95	124684	45.87	ug/l	0.00
Spiked Amount			Recovery	=	91.74%	

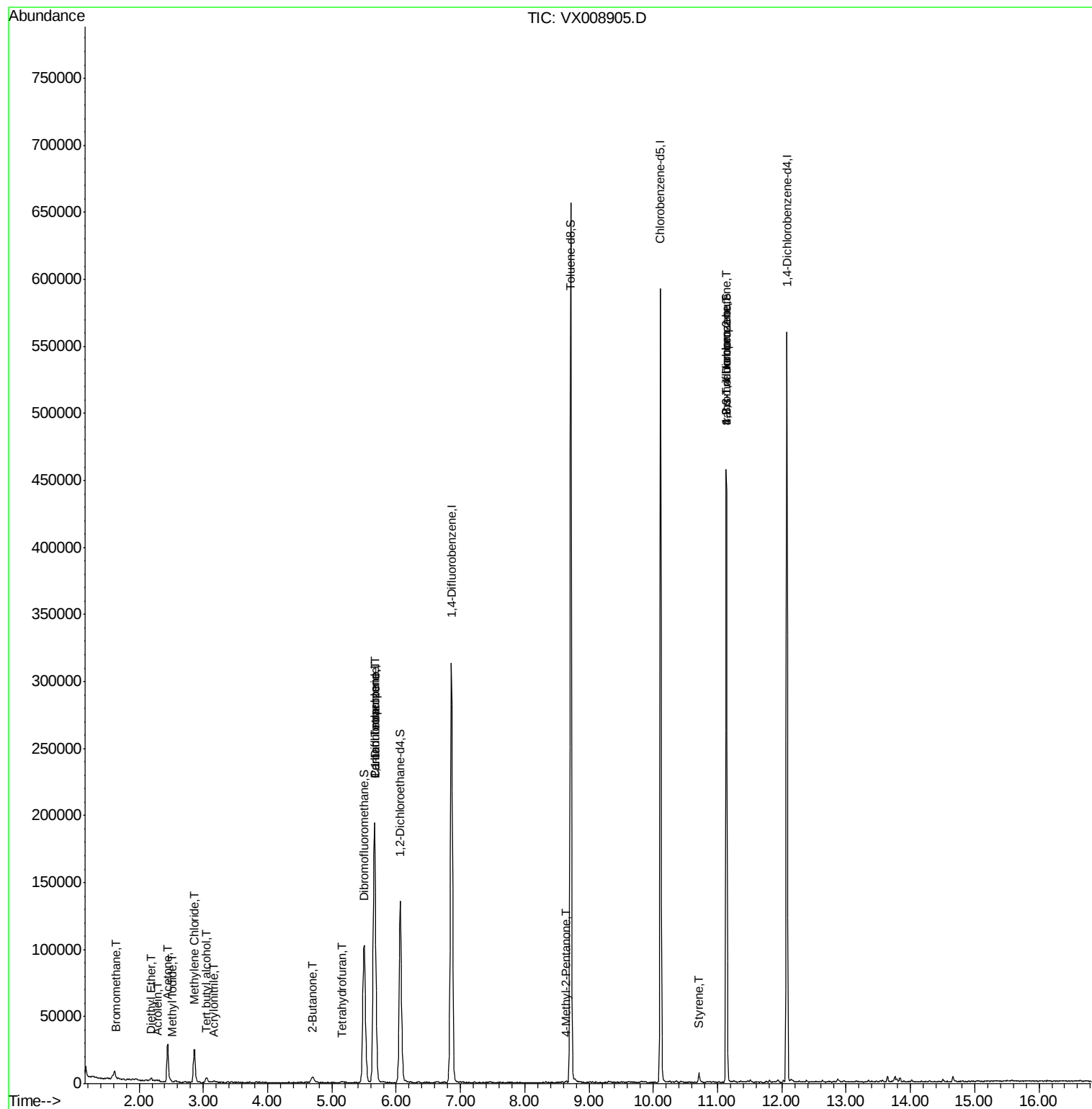
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	346	Below Cal		93
5) Bromomethane	1.65	94	518	2.232 ug/l #		45
6) Chloroethane	1.71	64	63	Below Cal #		43
8) Diethyl Ether	2.19	74	690	0.451 ug/l		76
10) Methyl Iodide	2.52	142	441	4.217 ug/l #		89
11) Tert butyl alcohol	3.05	59	4027	6.286 ug/l #		93
13) Acrolein	2.28	56	162	0.510 ug/l #		54
15) Acrylonitrile	3.15	53	373	0.220 ug/l #		80
16) Acetone	2.45	43	31259	19.833 ug/l		99
17) Carbon Disulfide	2.57	76	1536	Below Cal #		89
20) Methylene Chloride	2.86	84	11652	4.417 ug/l		98
25) 2-Butanone	4.70	43	1082	0.434 ug/l #		53
28) Bromochloromethane	5.03	49	108	Below Cal #		22
29) Tetrahydrofuran	5.15	42	812	0.491 ug/l #		74
36) 1,1-Dichloropropene	5.67	75	15088	4.585 ug/l #		50
38) Carbon Tetrachloride	5.66	117	18325	6.728 ug/l #		16
51) 4-Methyl-2-Pentanone	8.64	43	922	0.208 ug/l		97
70) Styrene	10.71	104	2483	0.384 ug/l		93
76) 1,2,3-Trichloropropane	11.13	75	63944	20.996 ug/l #		33
81) trans-1,4-Dichloro-2-buten	11.13	75	63944	57.876 ug/l #		9

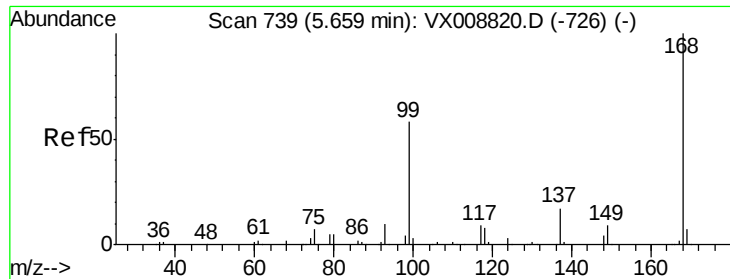
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041219\
Data File : VX008905.D
Acq On : 12 Apr 2019 23:18
Operator : JC/SP
Sample : K2311-11
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
0236-COMP-CS-1-ELTRT-DISS

Quant Time: Apr 13 05:04:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

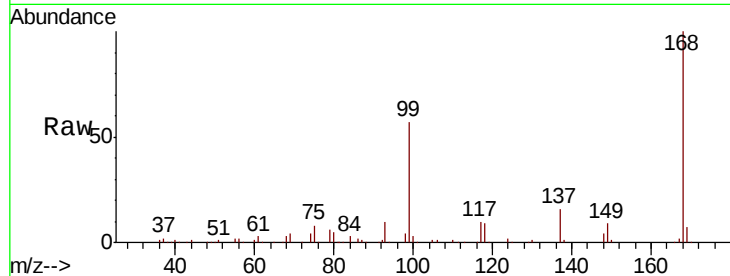
0236-COMP-CS-1-ELTRT-DISS

Tot Ion:168 Resp: 187609

Ion Ratio Lower Upper

168 100

99 57.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

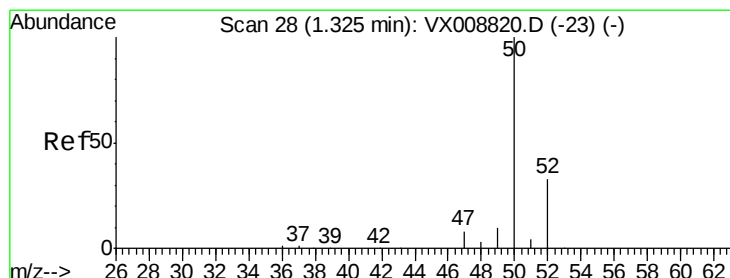
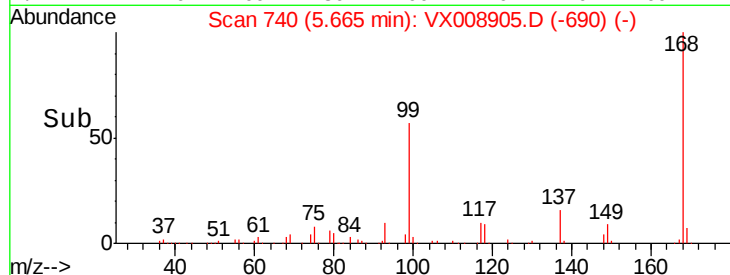
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008905.D

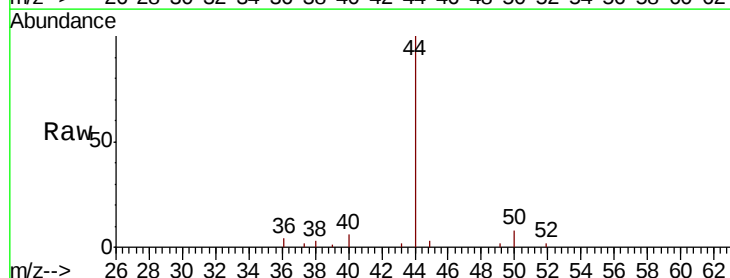
Acq: 12 Apr 2019 23:18

Tgt Ion: 50 Resp: 346

Ion Ratio Lower Upper

50 100

52 28.6 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

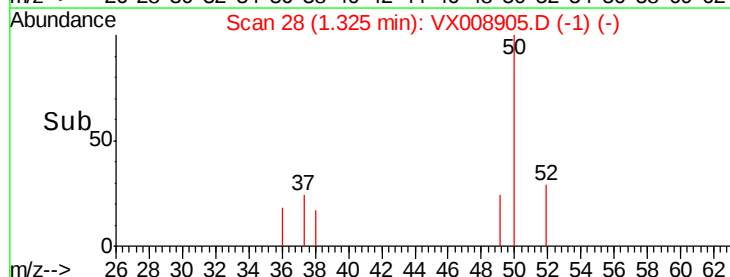
150

100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.232 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

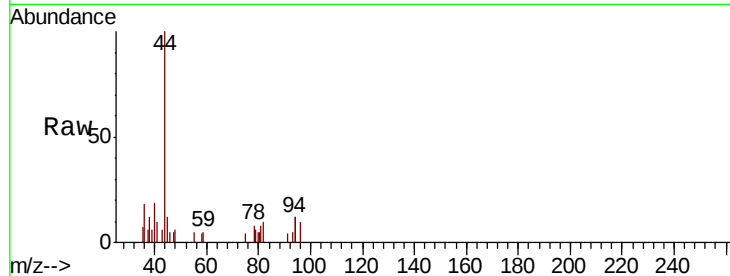
0236-COMP-CS-1-ELTRT-DISS

Tot Ion: 94 Resp: 518

Ion Ratio Lower Upper

94 100

96 40.7 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

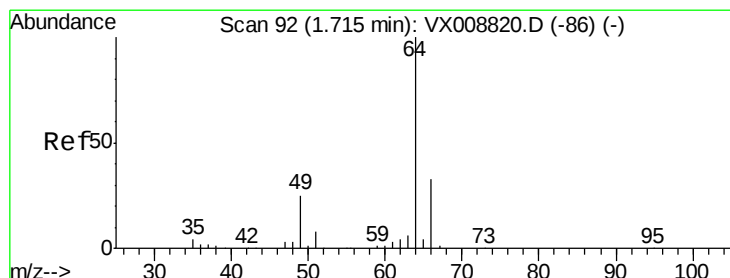
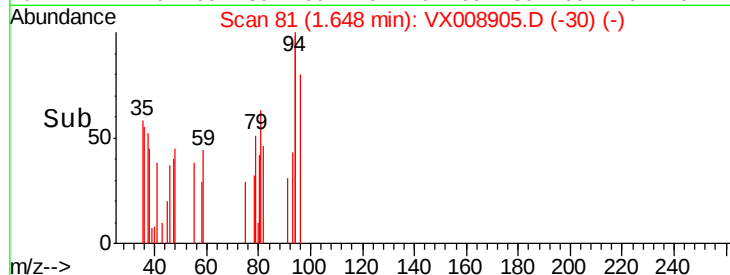
200

100

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008905.D

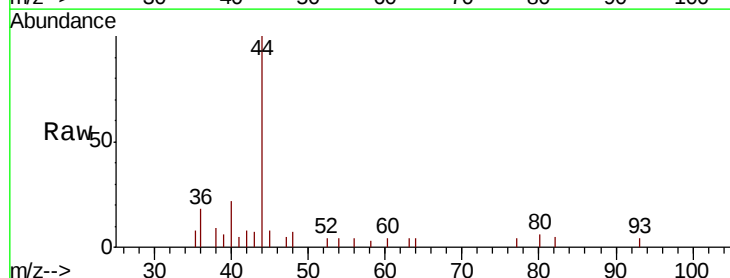
Acq: 12 Apr 2019 23:18

Tgt Ion: 64 Resp: 63

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

80

60

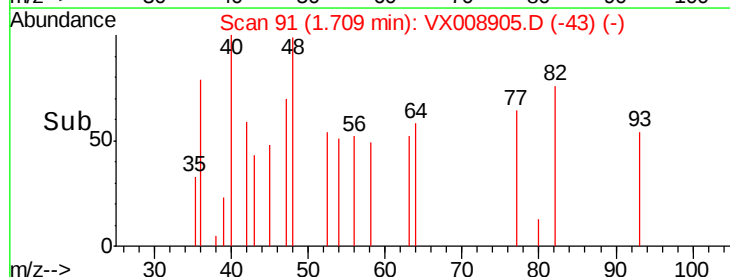
40

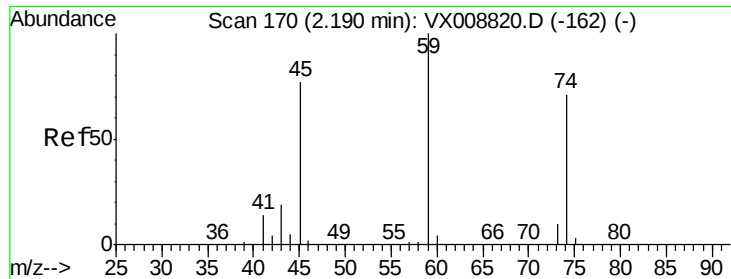
20

0

1.68 1.70 1.72

Time-->

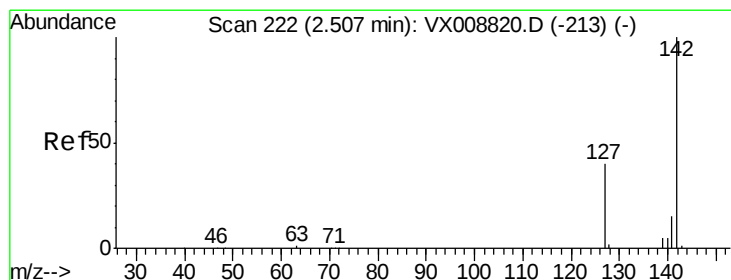
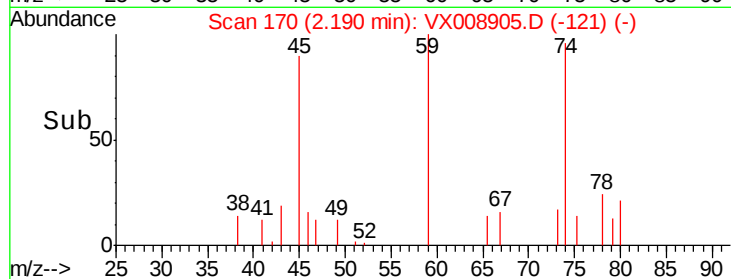
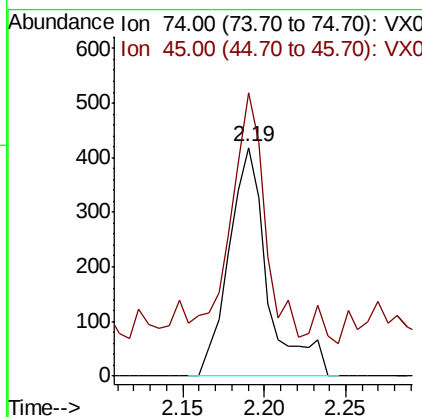
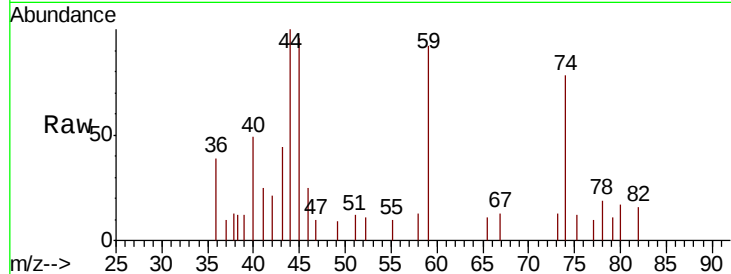




#8
 Diethyl Ether
 Concen: 0.451 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. -0.00 min
 Lab File: VX008905.D
 Acq: 12 Apr 2019 23:18

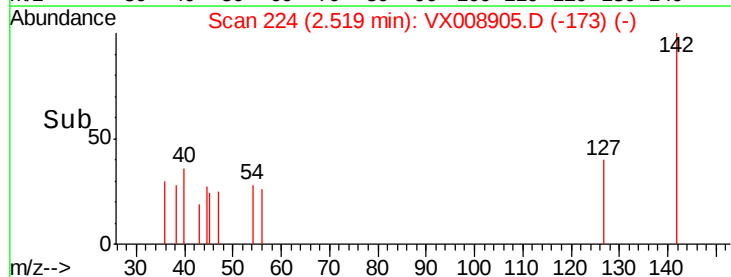
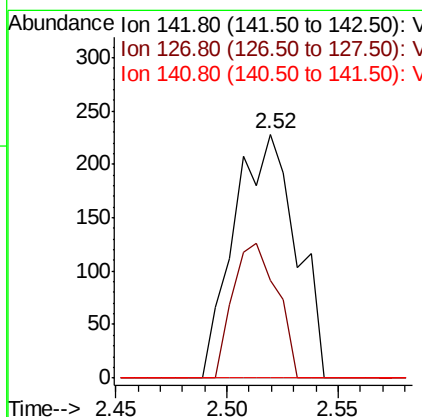
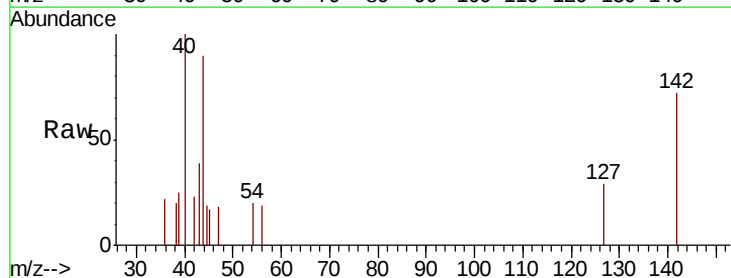
Instrument :
 MSVOA_X
 ClientSampleId :
 0236-COMP-CS-1-ELTRT-DISS

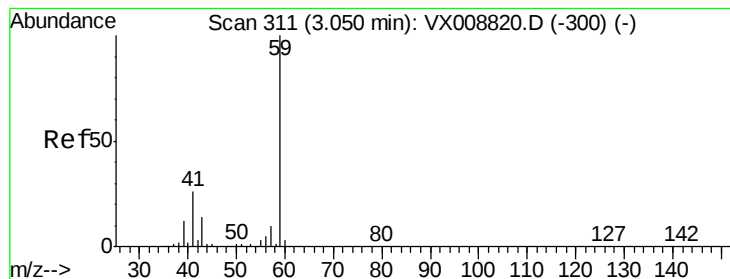
Tot Ion: 74 Resp: 690
 Ion Ratio Lower Upper
 74 100
 45 87.1 56.5 169.5



#10
 Methyl Iodide
 Concen: 4.217 ug/l
 RT: 2.52 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VX008905.D
 Acq: 12 Apr 2019 23:18

Tgt Ion: 142 Resp: 441
 Ion Ratio Lower Upper
 142 100
 127 39.5 33.0 49.6
 141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 6.286 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.01 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

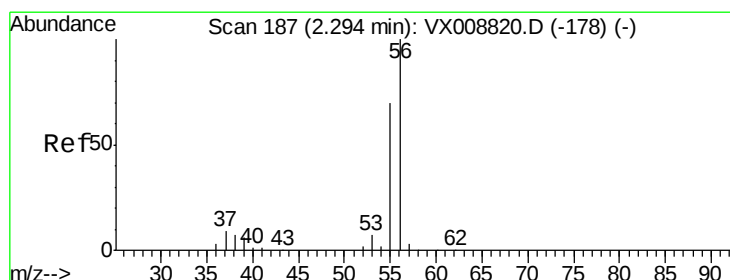
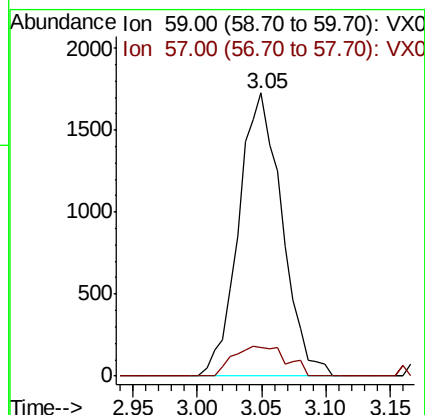
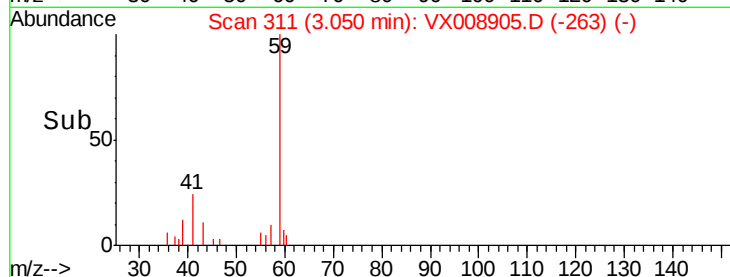
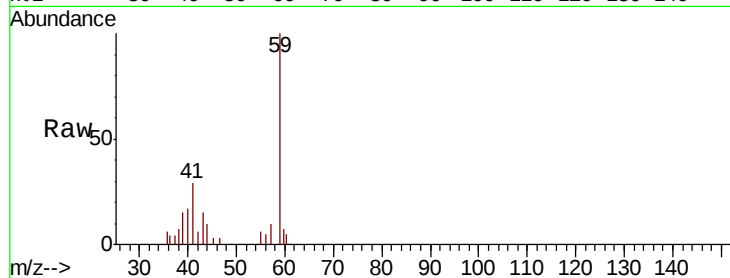
0236-COMP-CS-1-ELTRT-DISS

Tot Ion: 59 Resp: 4027

Ion Ratio Lower Upper

59 100

57 13.0 8.3 12.5#



#13

Acrolein

Concen: 0.510 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008905.D

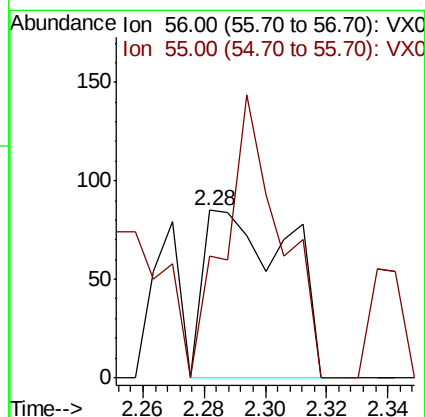
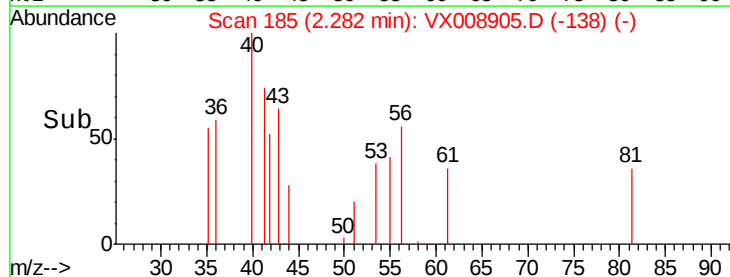
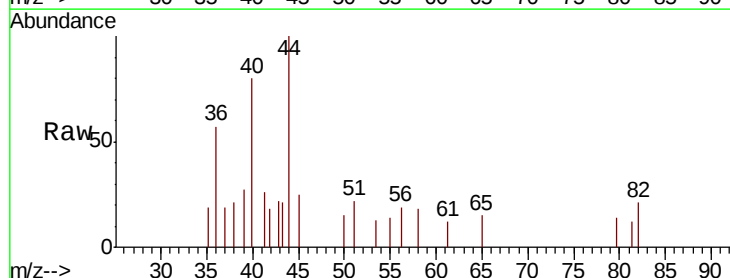
Acq: 12 Apr 2019 23:18

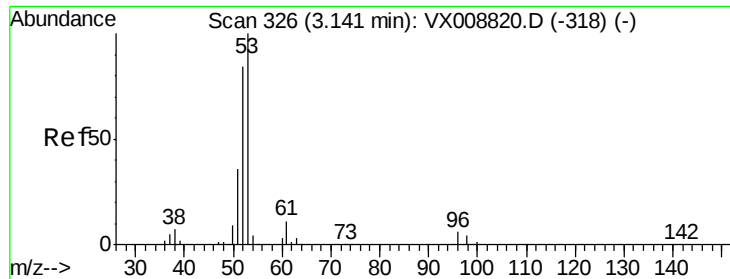
Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 111.1 58.0 87.0#





#15

Acrylonitrile

Concen: 0.220 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

0236-COMP-CS-1-ELTRT-DISS

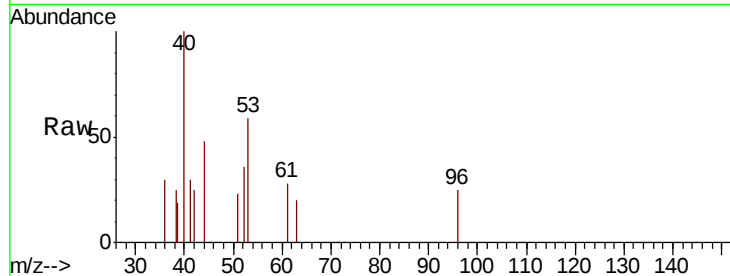
Tot Ion: 53 Resp: 373

Ion Ratio Lower Upper

53 100

52 85.8 66.5 99.7

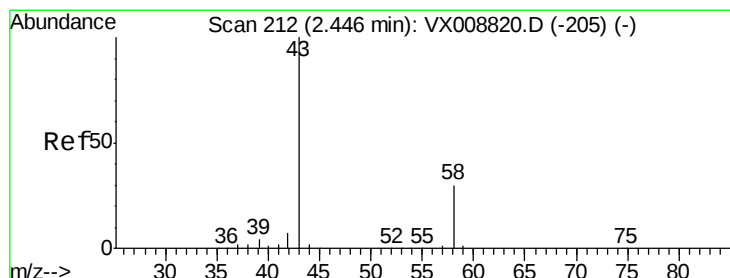
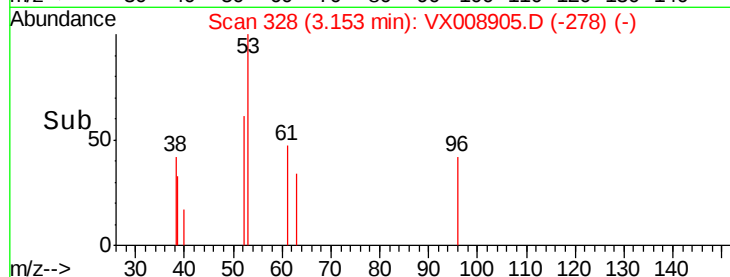
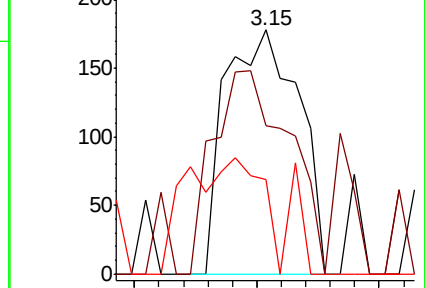
51 0.0 28.6 42.8#



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



#16

Acetone

Concen: 19.833 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008905.D

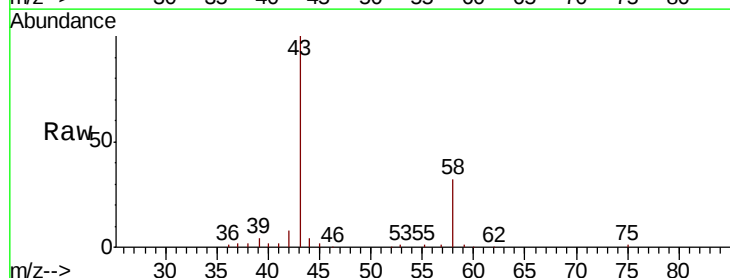
Acq: 12 Apr 2019 23:18

Tgt Ion: 43 Resp: 31259

Ion Ratio Lower Upper

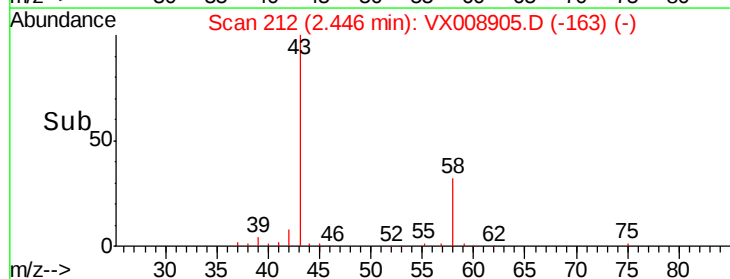
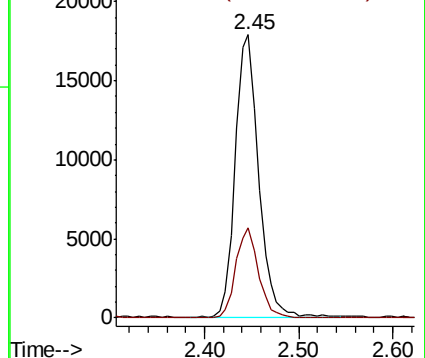
43 100

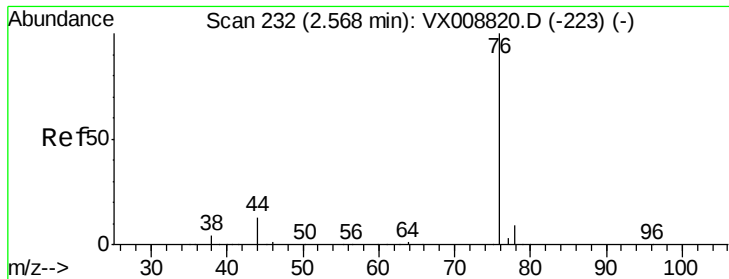
58 31.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

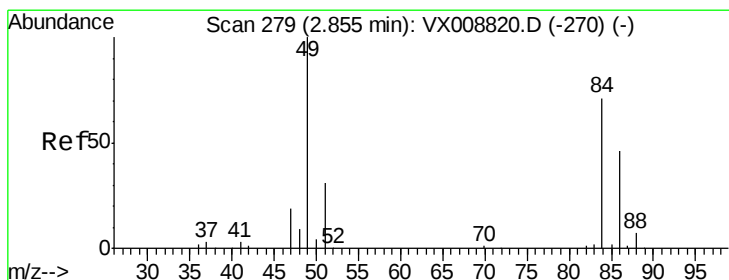
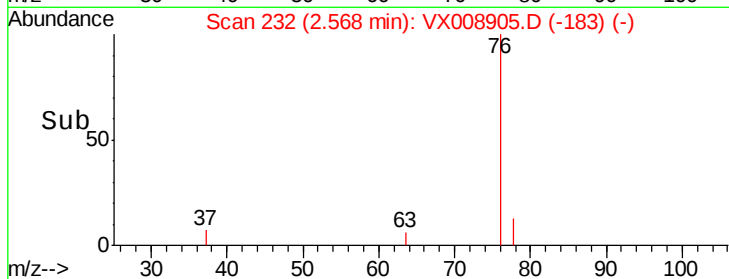
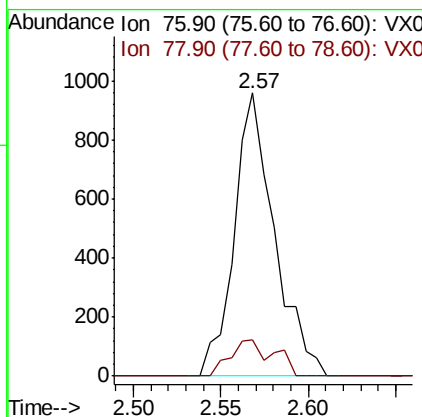
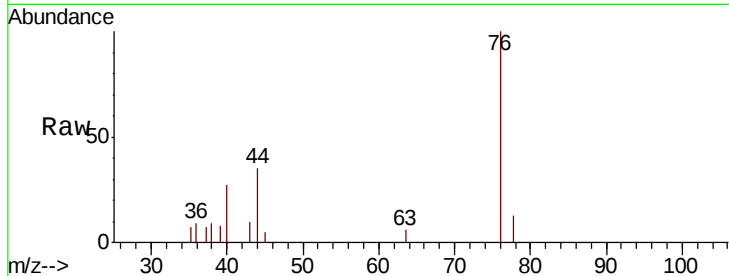




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

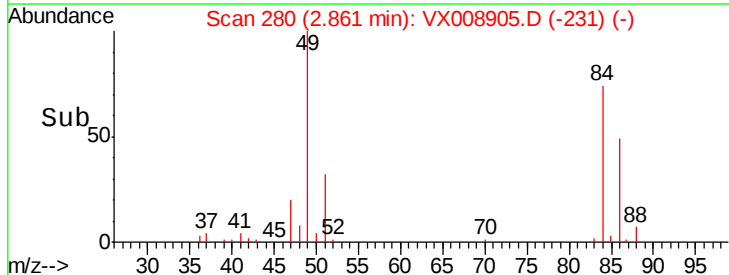
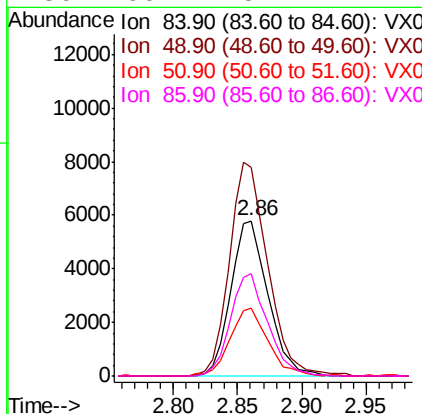
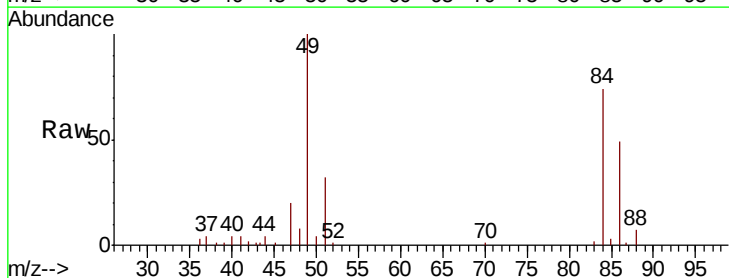
Instrument :
MSVOA_X
ClientSampleId :
0236-COMP-CS-1-ELTRT-DISS

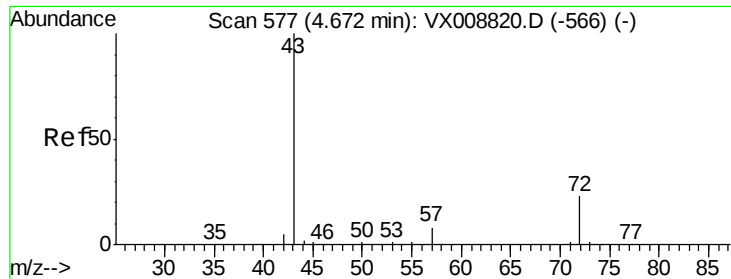
Tot Ion: 76 Resp: 1536
Ion Ratio Lower Upper
76 100
78 13.0 7.1 10.7#



#20
Methylene Chloride
Concen: 4.417 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 84 Resp: 11652
Ion Ratio Lower Upper
84 100
49 134.4 109.7 164.5
51 43.6 33.6 50.4
86 66.1 51.4 77.2

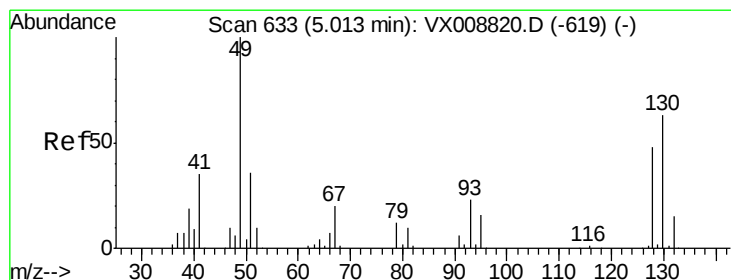
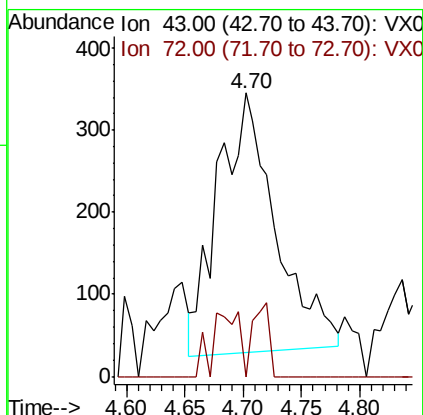
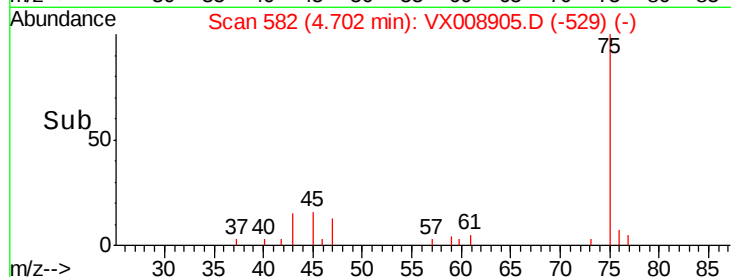
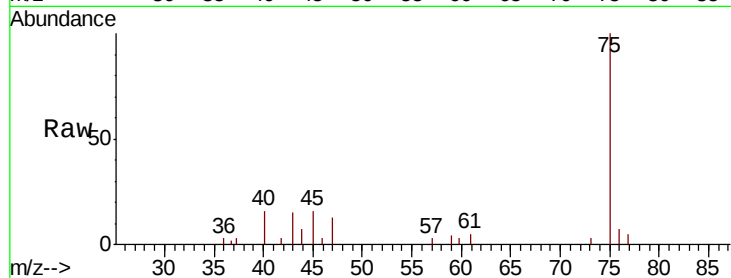




#25
2-Butanone
Concen: 0.434 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.02 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

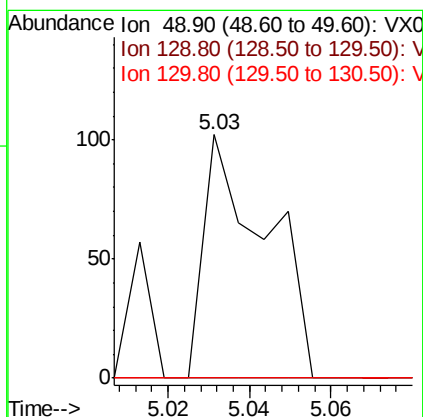
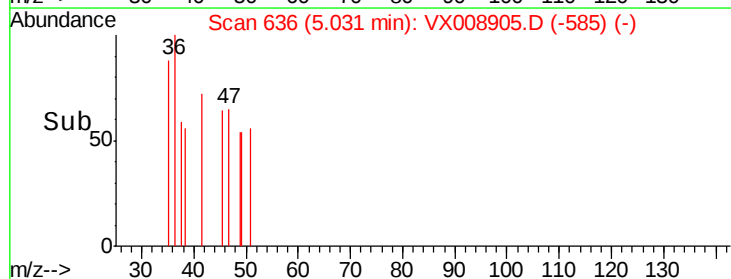
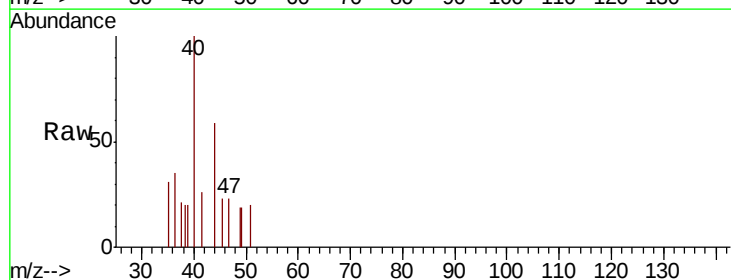
Instrument :
MSVOA_X
ClientSampleId :
0236-COMP-CS-1-ELTRT-DISS

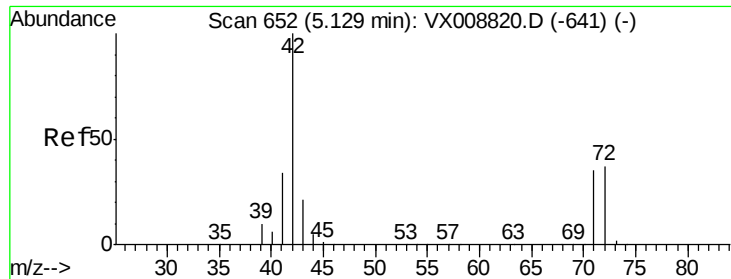
Tot Ion: 43 Resp: 1082
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 636
Delta R.T. 0.01 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 49 Resp: 108
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#

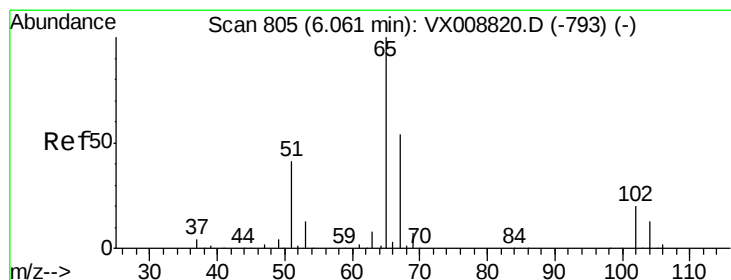
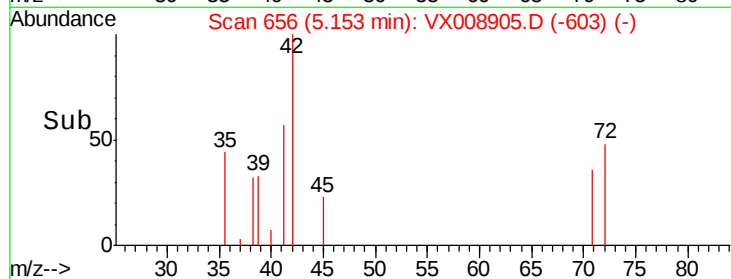
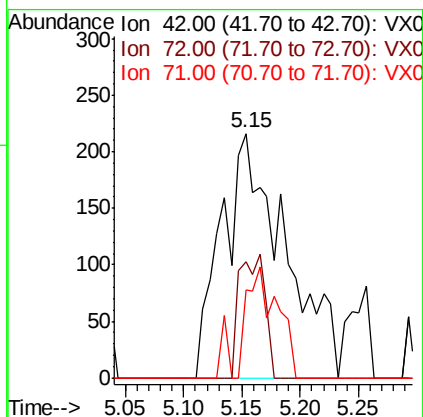
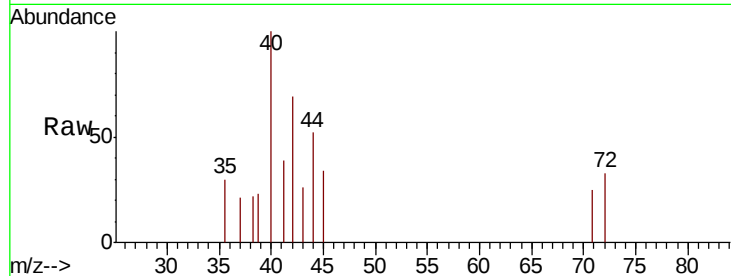




#29
Tetrahydrofuran
Concen: 0.491 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

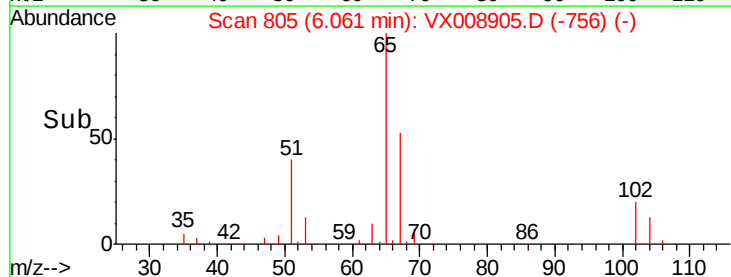
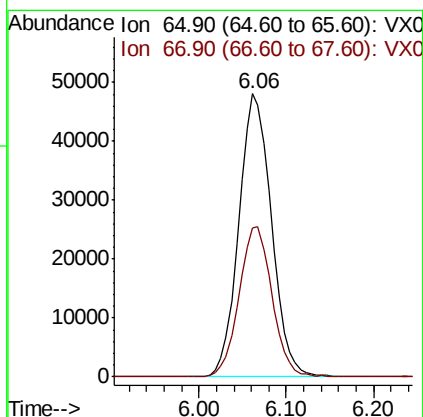
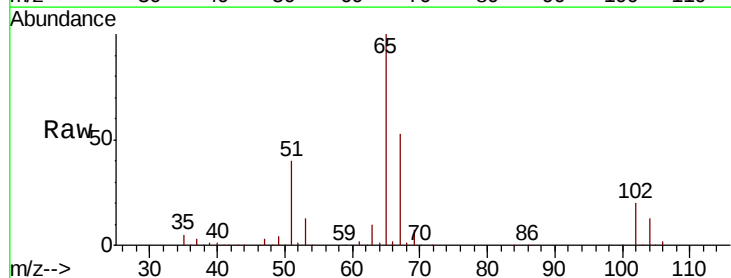
Instrument :
MSVOA_X
ClientSampleId :
0236-COMP-CS-1-ELTRT-DISS

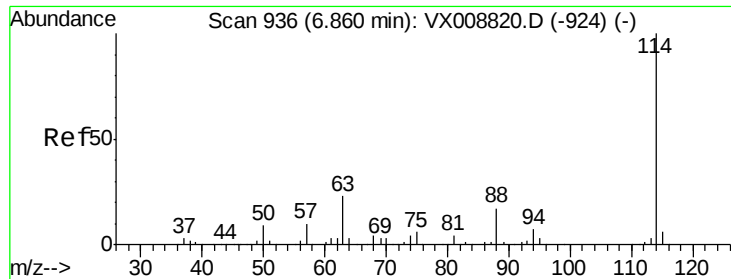
Tot Ion: 42 Resp: 812
Ion Ratio Lower Upper
42 100
72 20.8 30.5 45.7#
71 22.0 28.6 43.0#



#33
1,2-Dichloroethane-d4
Concen: 45.579 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 65 Resp: 124721
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.2

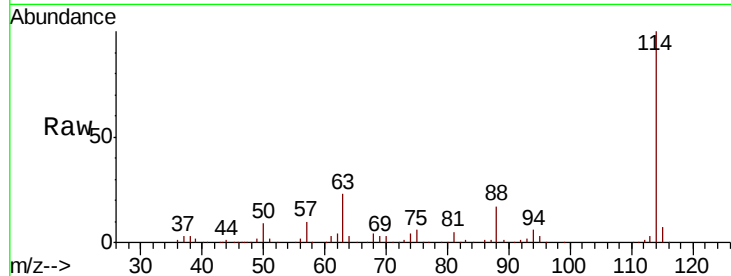




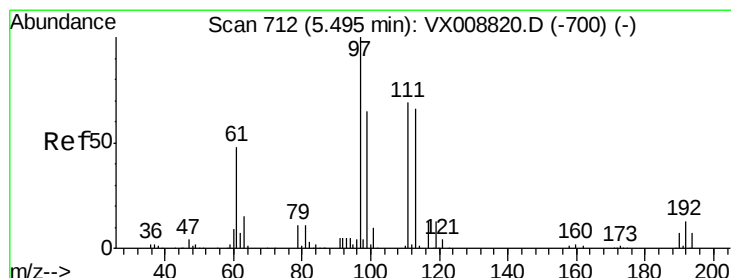
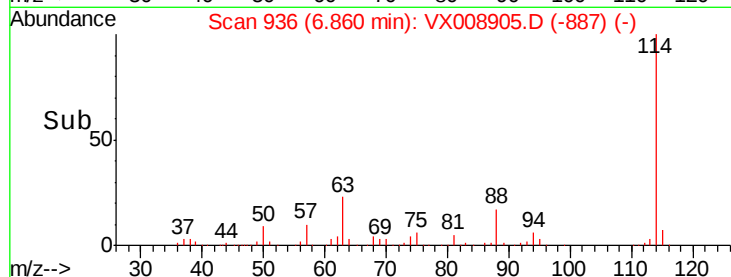
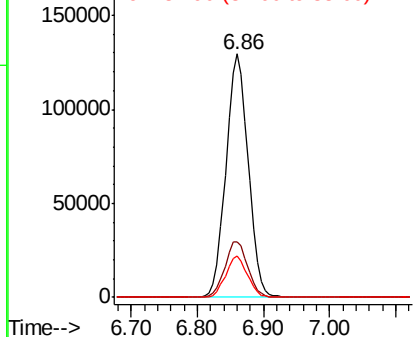
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

Instrument :
MSVOA_X
ClientSampleId :
0236-COMP-CS-1-ELTRT-DISS

Tot Ion:114 Resp: 301073
Ion Ratio Lower Upper
114 100
63 23.0 0.0 47.2
88 17.1 0.0 34.0

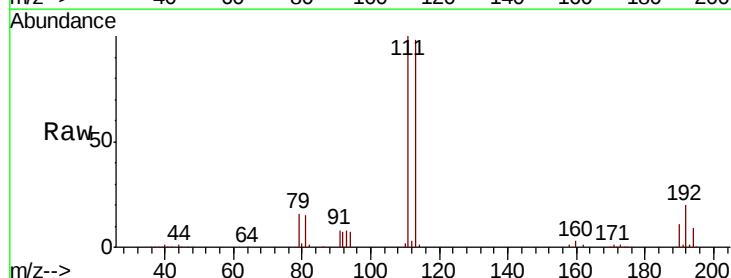


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

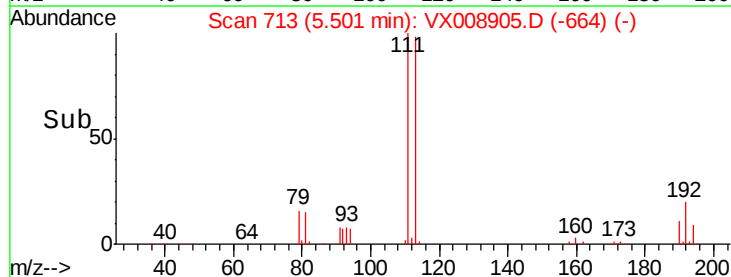
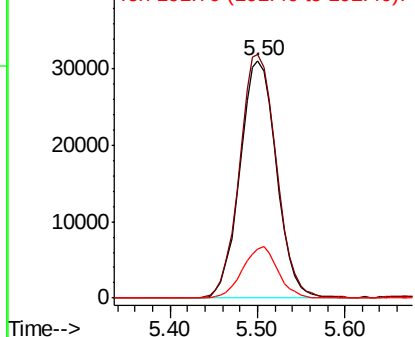


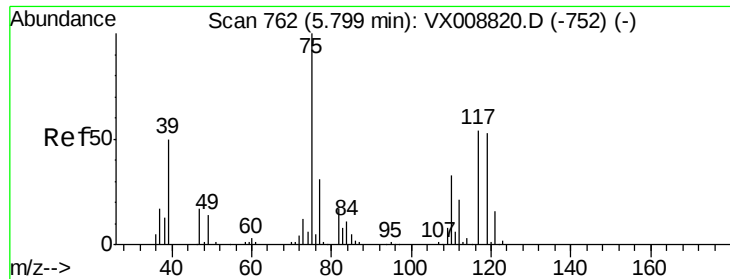
#35
Dibromofluoromethane
Concen: 46.814 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008905.D
Acq: 12 Apr 2019 23:18

Tgt Ion:113 Resp: 90115
Ion Ratio Lower Upper
113 100
111 103.9 83.4 125.2
192 20.9 16.1 24.1



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

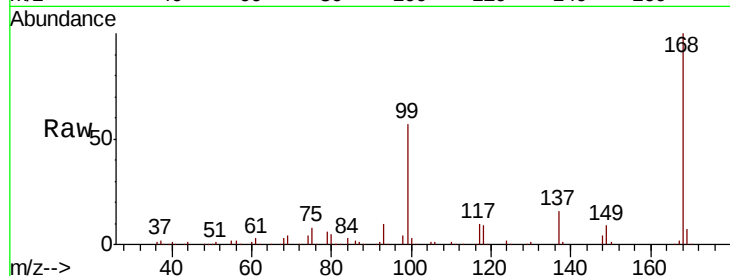




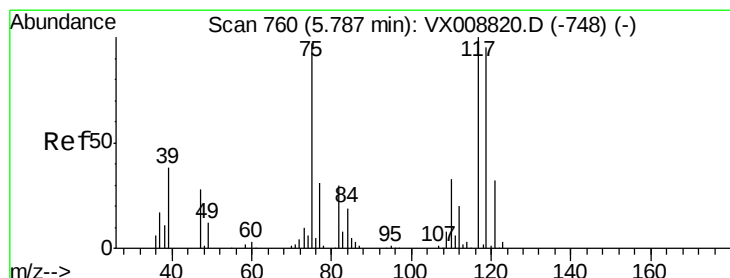
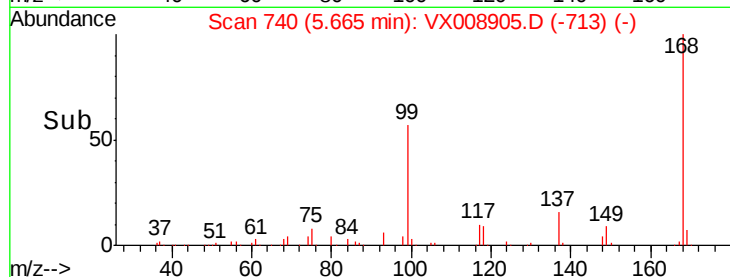
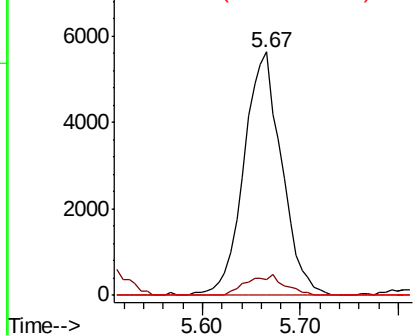
#36
 1,1-Dichloropropene
 Concen: 4.585 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008905.D
 Acq: 12 Apr 2019 23:18

Instrument :
 MSVOA_X
 ClientSampleId :
 0236-COMP-CS-1-ELTRT-DISS

Tot Ion: 75 Resp: 15088
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.4 49.2#
 77 0.0 24.7 37.1#

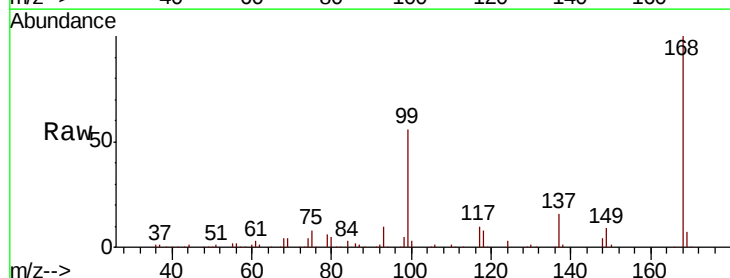


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

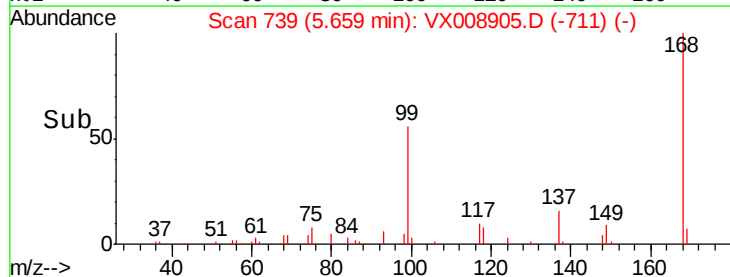
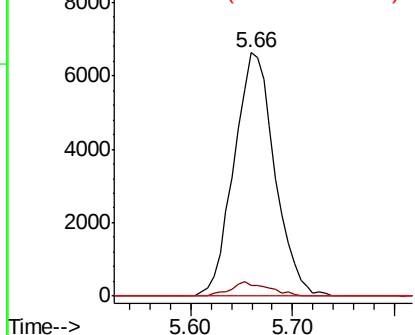


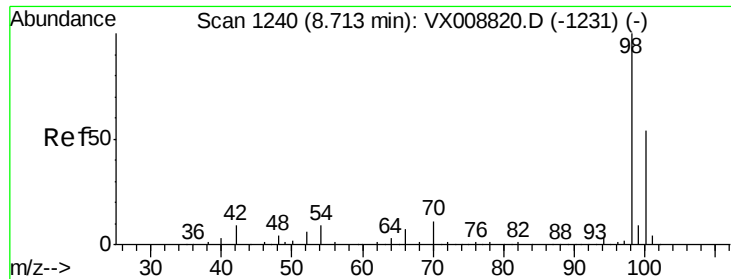
#38
 Carbon Tetrachloride
 Concen: 6.728 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008905.D
 Acq: 12 Apr 2019 23:18

Tgt Ion: 117 Resp: 18325
 Ion Ratio Lower Upper
 117 100
 119 4.4 75.0 112.6#
 121 0.0 24.3 36.5#



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





#50

Toluene-d8

Concen: 49.301 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

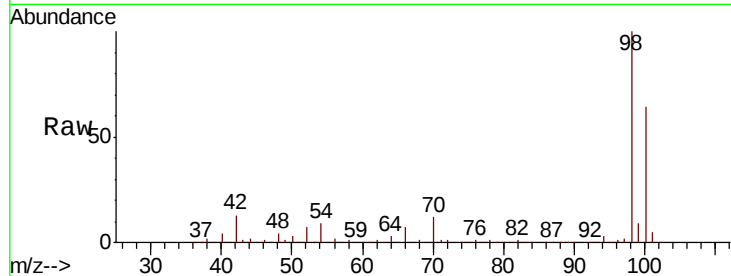
0236-COMP-CS-1-ELTRT-DISS

Tot Ion: 98 Resp: 377870

Ion Ratio Lower Upper

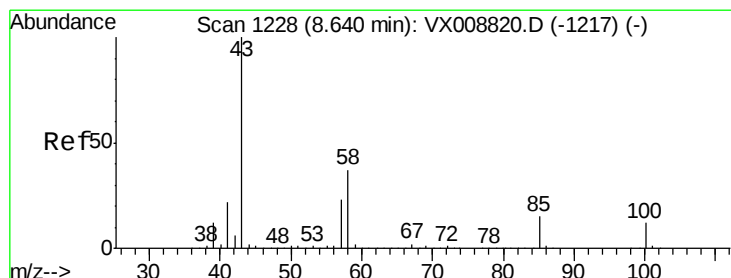
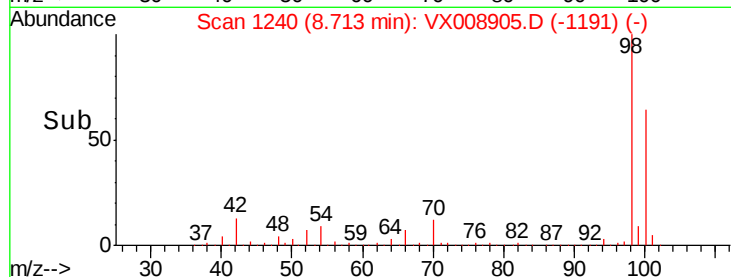
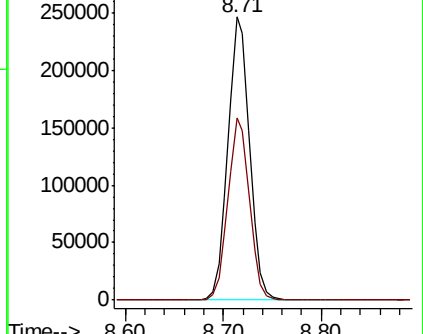
98 100

100 64.0 51.4 77.0



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: 0.208 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008905.D

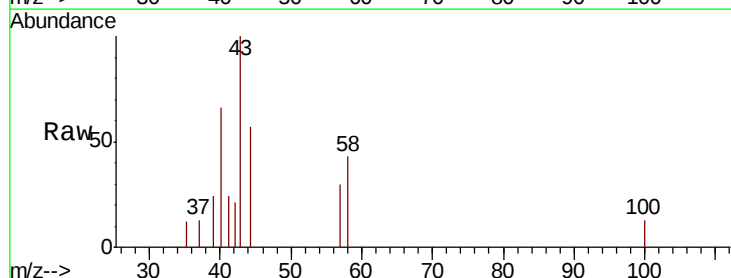
Acq: 12 Apr 2019 23:18

Tgt Ion: 43 Resp: 922

Ion Ratio Lower Upper

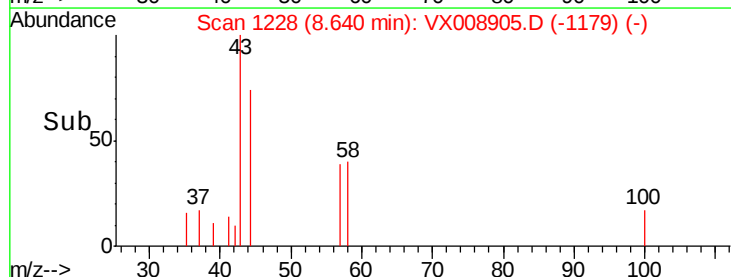
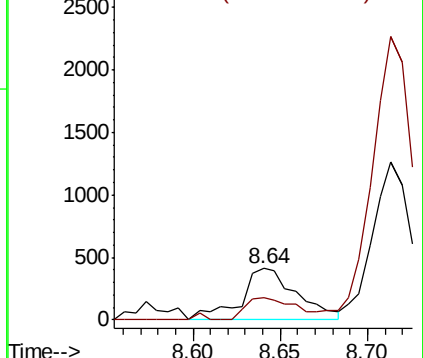
43 100

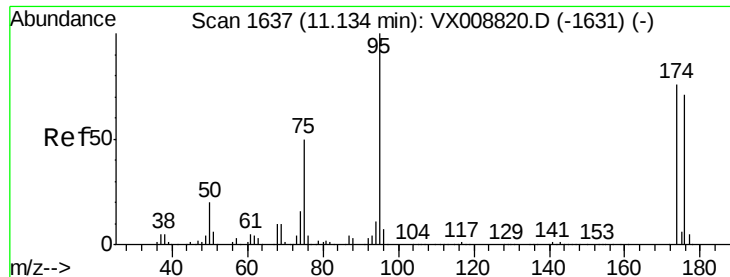
58 38.6 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.874 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

0236-COMP-CS-1-ELTRT-DISS

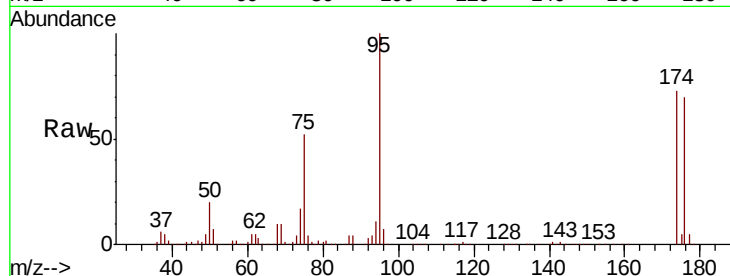
Tot Ion: 95 Resp: 124684

Ion Ratio Lower Upper

95 100

174 79.1 0.0 151.8

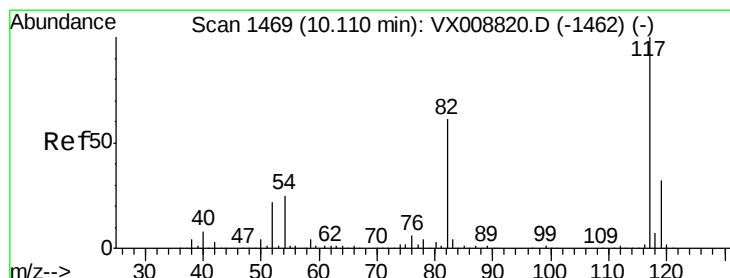
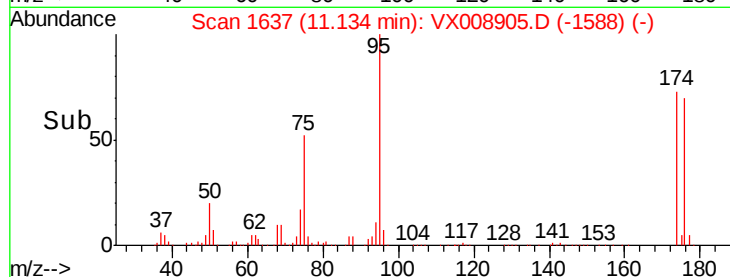
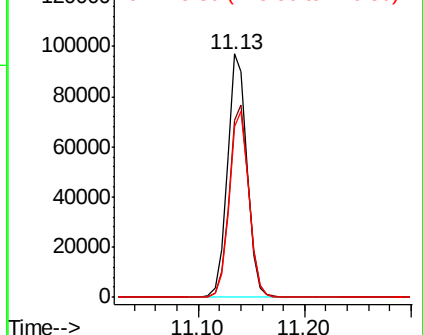
176 76.7 0.0 145.8



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: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

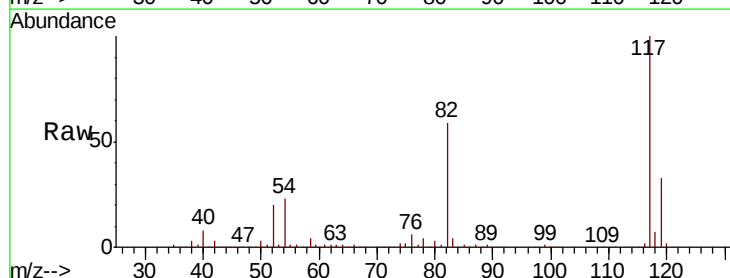
Tgt Ion: 117 Resp: 260543

Ion Ratio Lower Upper

117 100

82 58.6 49.6 74.4

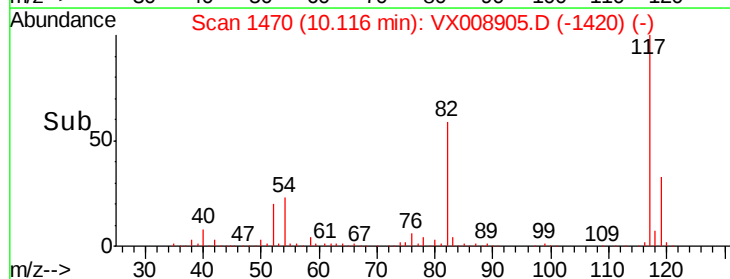
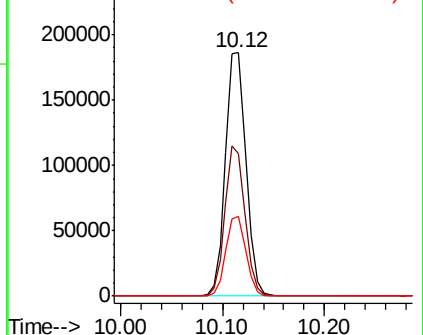
119 32.9 25.0 37.4

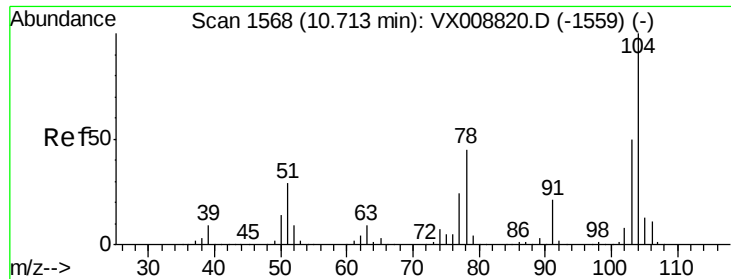


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#70

Stvrene

Concen: 0.384 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_X

ClientSampleId :

0236-COMP-CS-1-ELTRT-DISS

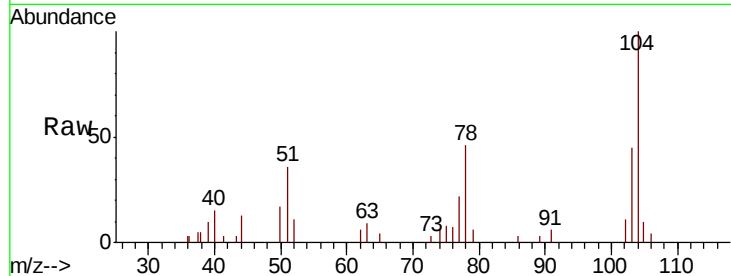
Tot Ion:104 Resp: 2483

Ion Ratio Lower Upper

104 100

78 48.1 42.3 63.5

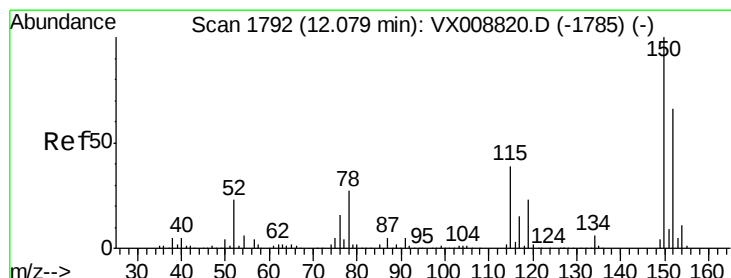
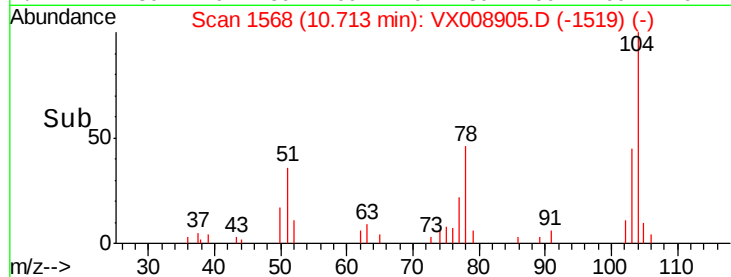
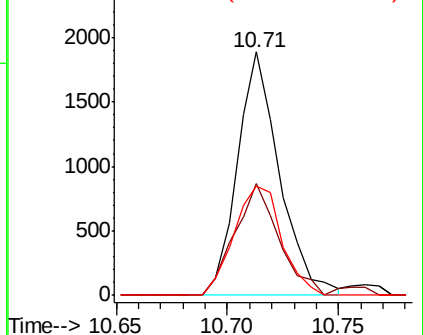
103 50.9 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008905.D

Acq: 12 Apr 2019 23:18

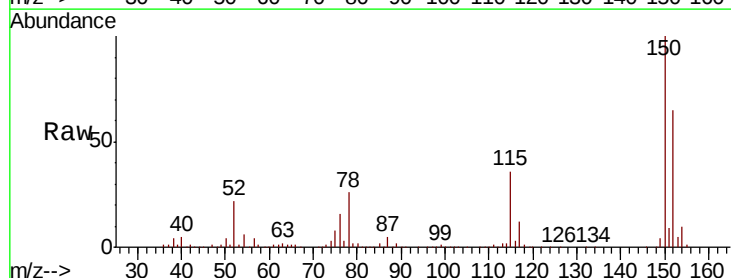
Tgt Ion:152 Resp: 110865

Ion Ratio Lower Upper

152 100

115 58.7 43.5 130.5

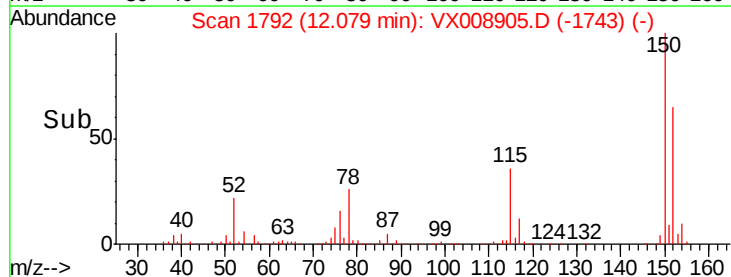
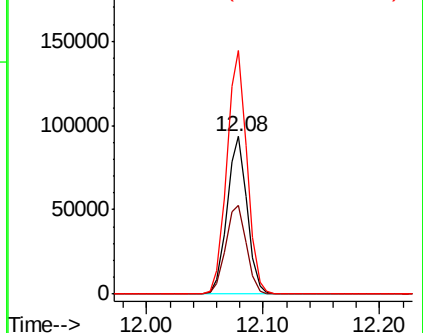
150 156.0 0.0 348.8

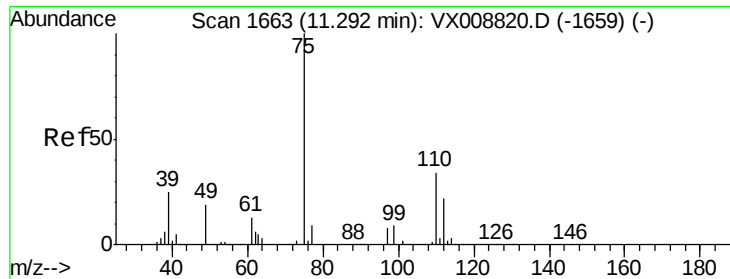


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

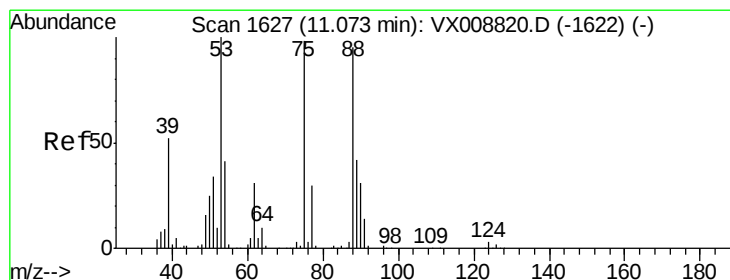
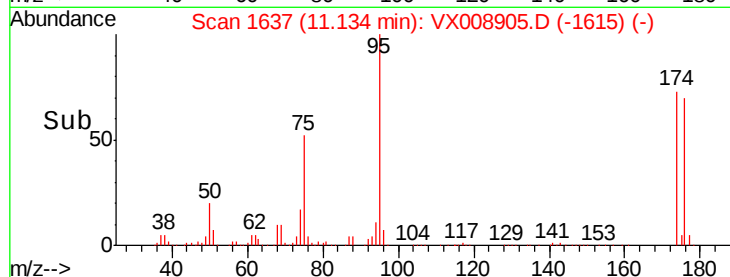
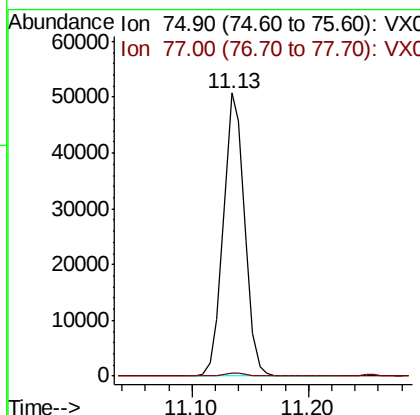
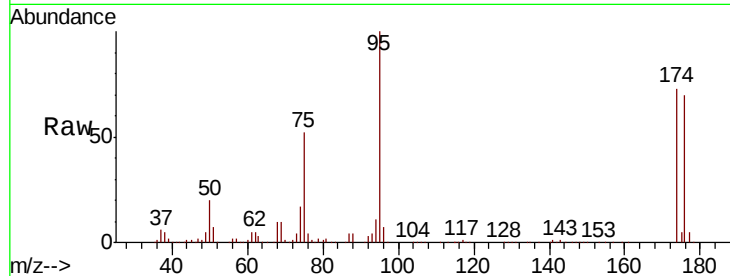




#76
 1,2,3-Trichloropropane
 Concen: 20.996 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008905.D
 Acq: 12 Apr 2019 23:18

Instrument :
 MSVOA_X
 ClientSampleId :
 0236-COMP-CS-1-ELTRT-DISS

Tot Ion: 75 Resp: 63944
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.876 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008905.D
 Acq: 12 Apr 2019 23:18

Tgt Ion: 75 Resp: 63944
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#

