

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040919\
 Data File : VX008779.D
 Acq On : 09 Apr 2019 18:32
 Operator : JC/SP
 Sample : K2311-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT

Quant Time: Apr 10 06:39:21 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	208987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	346815	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123869	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	143499	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
35) Dibromofluoromethane	5.50	113	105090	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
50) Toluene-d8	8.71	98	433855	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.13	95	142724	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	

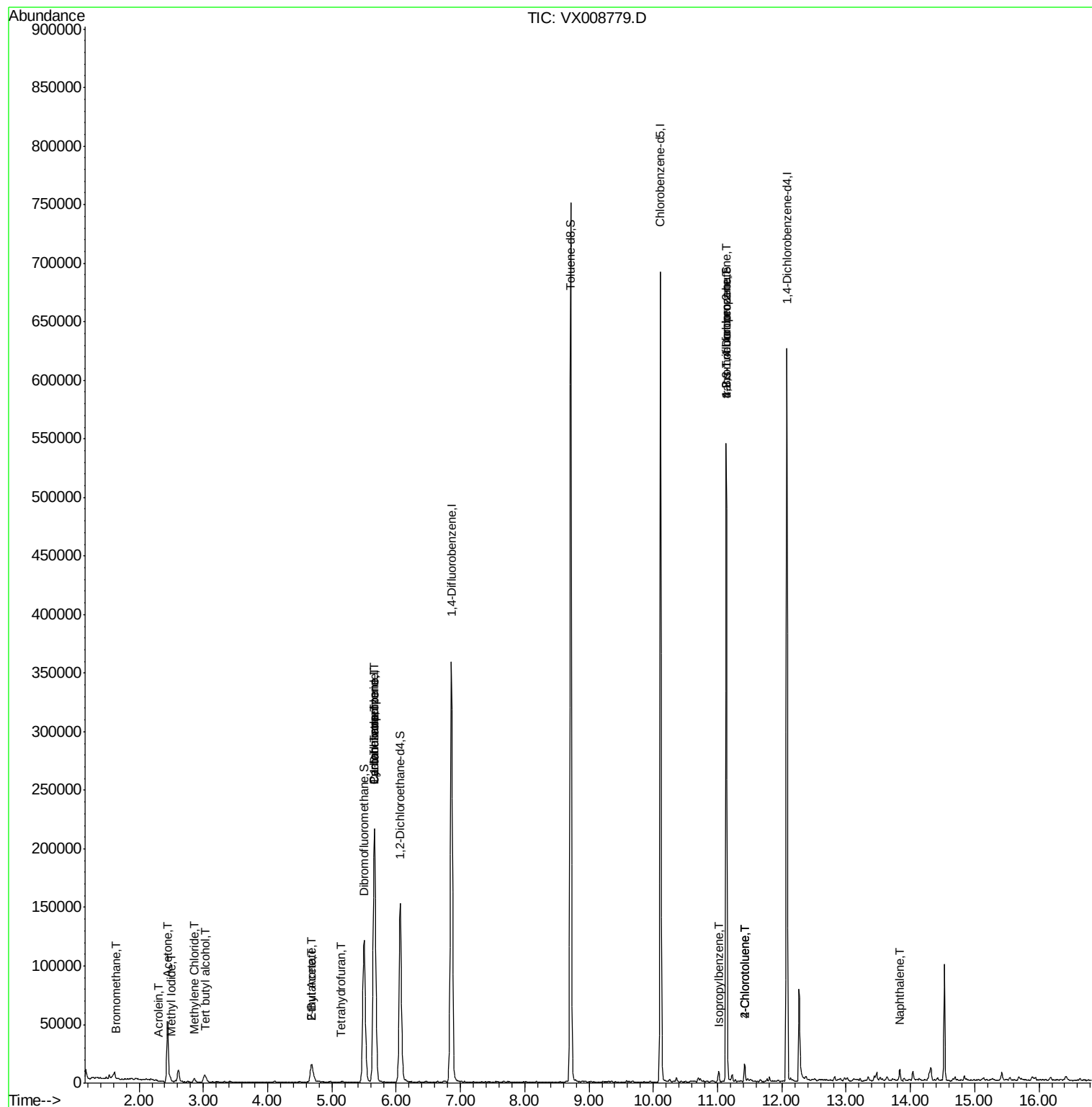
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	426	Below Cal	#	87
5) Bromomethane	1.64	94	287	2.058	ug/l	87
6) Chloroethane	1.72	64	203	Below Cal	#	85
10) Methyl Iodide	2.51	142	21	4.012	ug/l #	42
11) Tert butyl alcohol	3.03	59	6007	8.418	ug/l #	84
13) Acrolein	2.30	56	155	0.438	ug/l #	7
16) Acetone	2.44	43	58007	33.040	ug/l	99
17) Carbon Disulfide	2.57	76	1153	Below Cal	#	75
20) Methylene Chloride	2.85	84	1261	0.429	ug/l	97
25) 2-Butanone	4.68	43	19973	7.198	ug/l	96
28) Bromochloromethane	5.01	49	20	Below Cal	#	22
29) Tetrahydrofuran	5.14	42	452	0.245	ug/l #	56
31) Cyclohexane	5.66	56	4607	0.875	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16978	4.478	ug/l #	50
37) Ethyl Acetate	4.68	43	19973	3.947	ug/l #	72
38) Carbon Tetrachloride	5.66	117	20281	6.464	ug/l #	17
73) Isopropylbenzene	11.02	105	4262	0.415	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	73092	21.480	ug/l #	34
79) 2-Chlorotoluene	11.42	91	6742	0.932	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	73092	59.211	ug/l #	9
82) 4-Chlorotoluene	11.42	91	6742	0.805	ug/l	94
95) Naphthalene	13.83	128	5458	0.535	ug/l	95

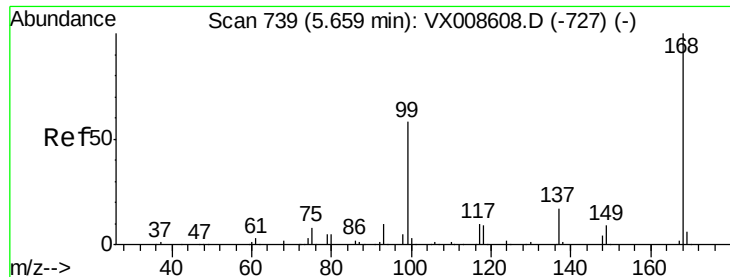
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

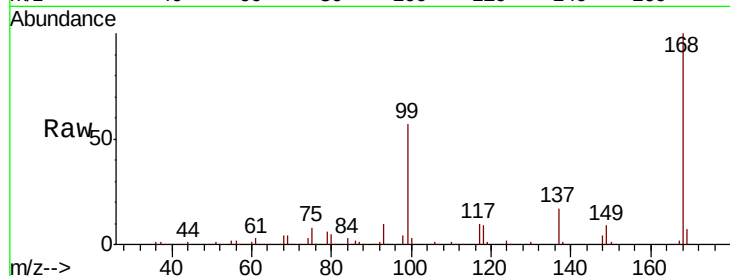
0239-COMP-CS-4-ELTRT

Tot Ion:168 Resp: 208987

Ion Ratio Lower Upper

168 100

99 56.6 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

80000

60000

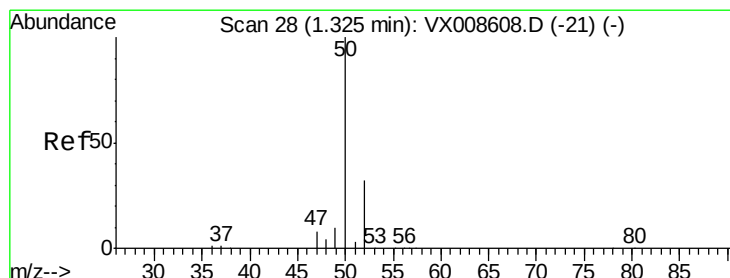
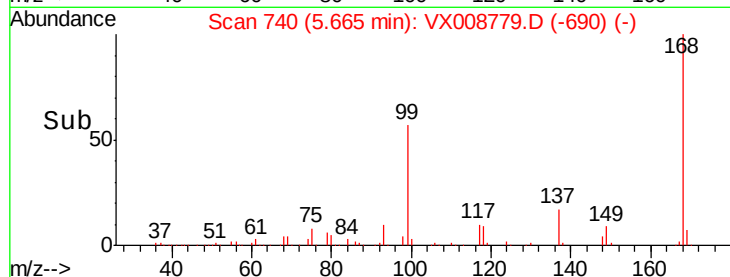
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008779.D

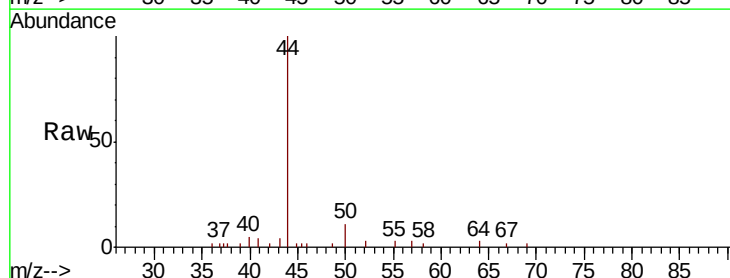
Acq: 09 Apr 2019 18:32

Tgt Ion: 50 Resp: 426

Ion Ratio Lower Upper

50 100

52 25.1 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

400

300

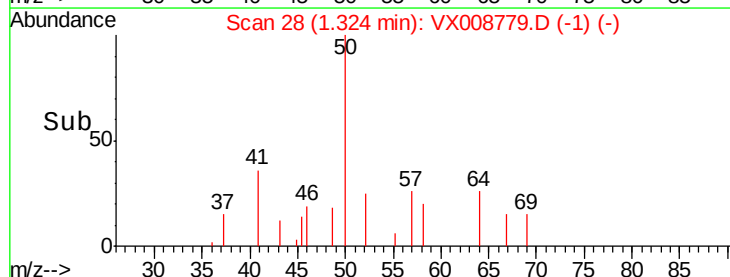
200

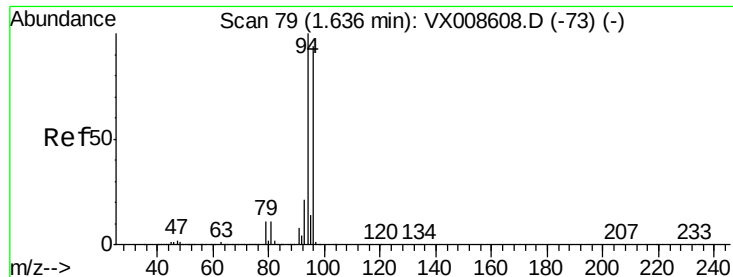
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 2.058 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

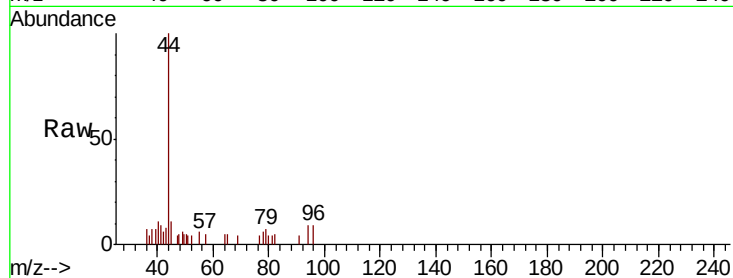
0239-COMP-CS-4-ELTRT

Tot Ion: 94 Resp: 287

Ion Ratio Lower Upper

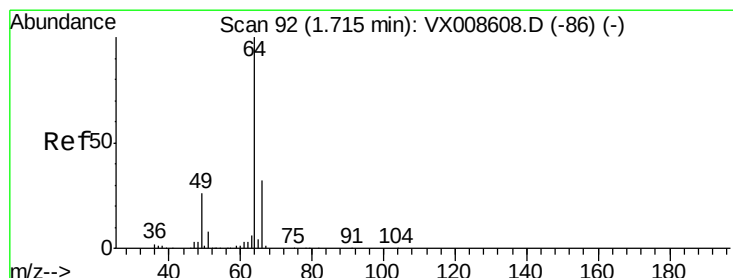
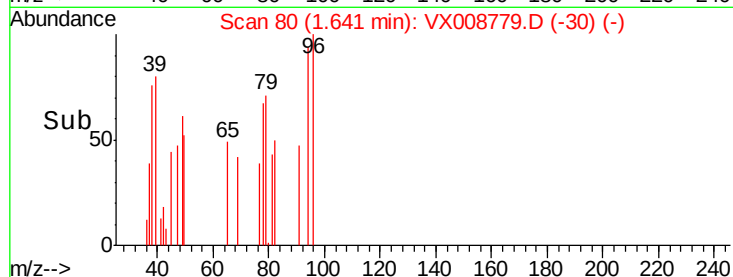
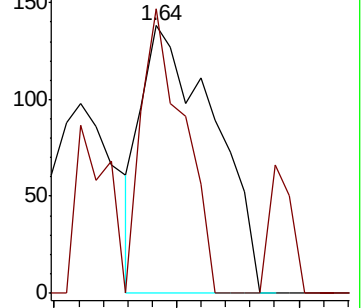
94 100

96 106.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008779.D

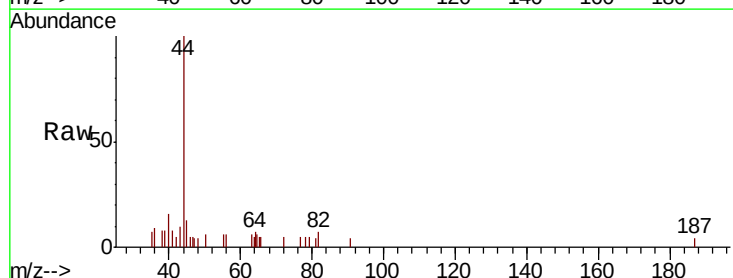
Acq: 09 Apr 2019 18:32

Tgt Ion: 64 Resp: 203

Ion Ratio Lower Upper

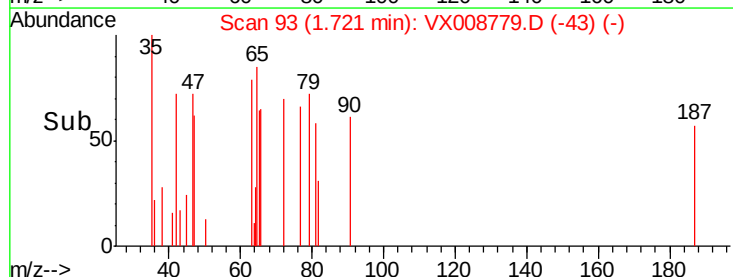
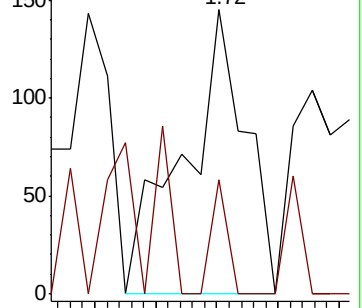
64 100

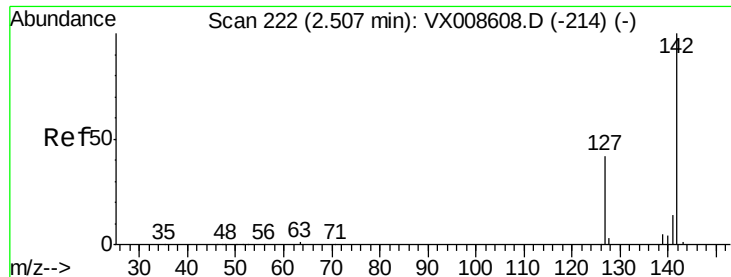
66 40.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

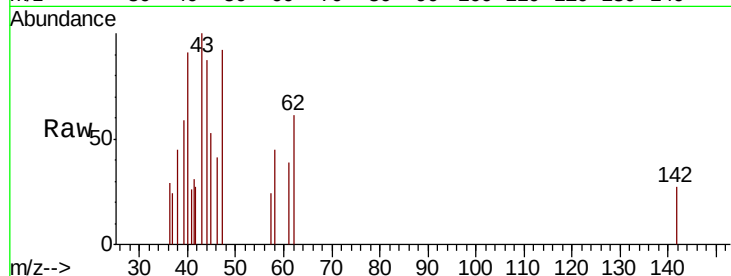




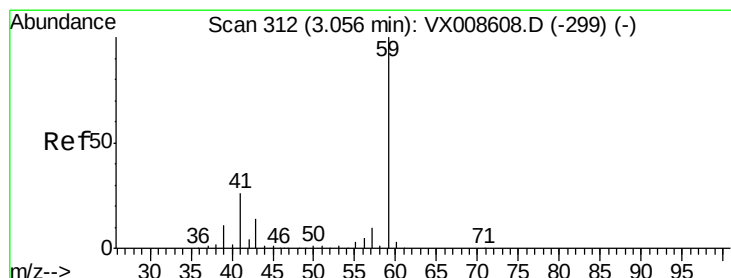
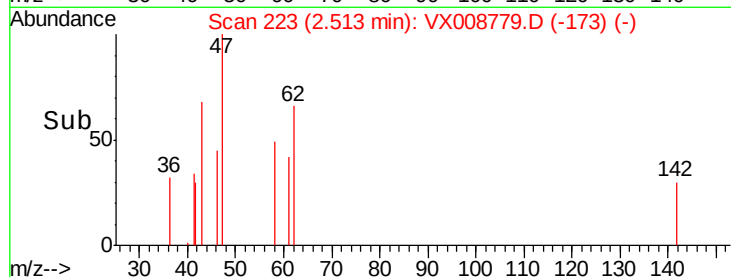
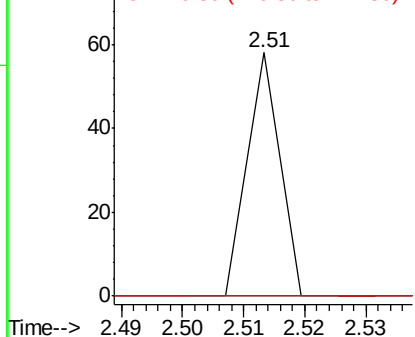
#10
Methvl Iodide
Concen: 4.012 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008779.D
Acq: 09 Apr 2019 18:32

Instrument :
MSVOA_X
ClientSampleId :
0239-COMP-CS-4-ELTRT

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#

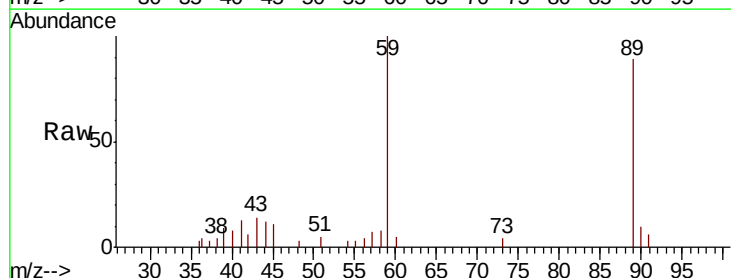


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

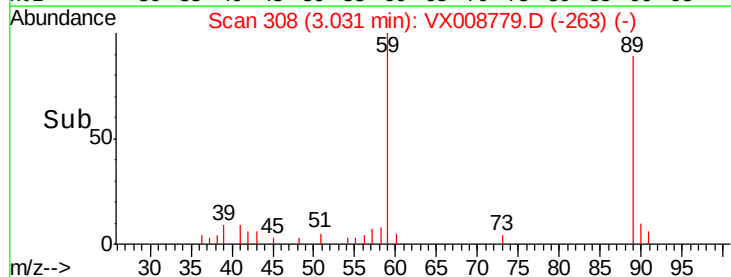
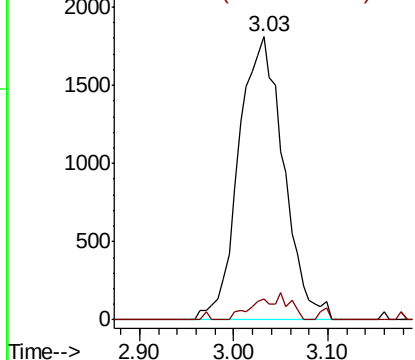


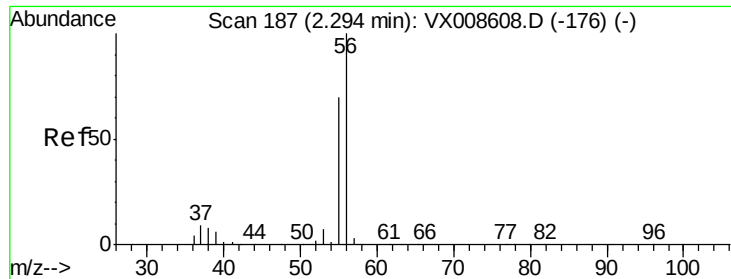
#11
Tert butyl alcohol
Concen: 8.418 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX008779.D
Acq: 09 Apr 2019 18:32

Tgt Ion: 59 Resp: 6007
Ion Ratio Lower Upper
59 100
57 4.3 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.438 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

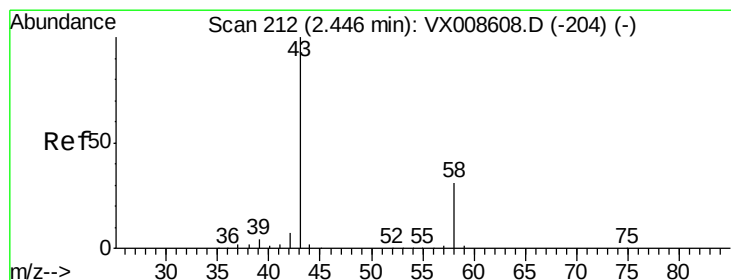
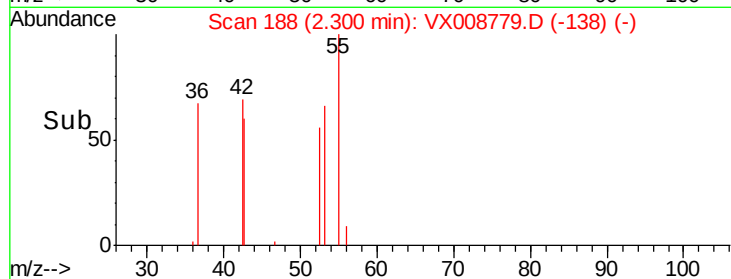
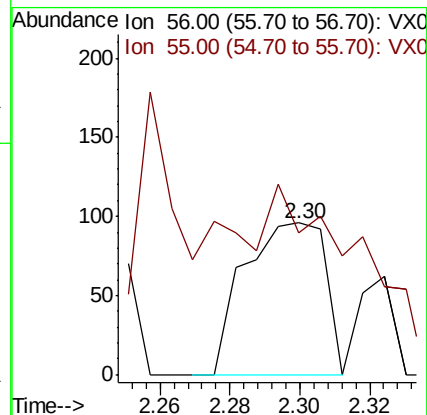
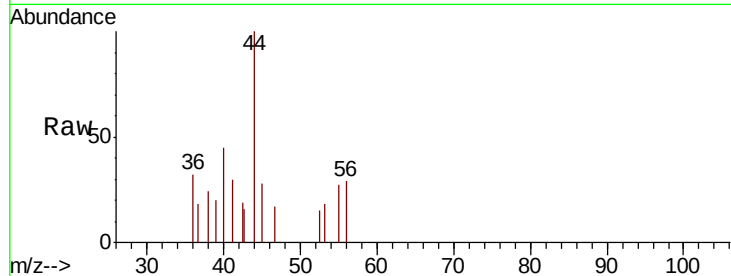
0239-COMP-CS-4-ELTRT

Tot Ion: 56 Resp: 155

Ion Ratio Lower Upper

56 100

55 150.3 58.0 87.0#



#16

Acetone

Concen: 33.040 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008779.D

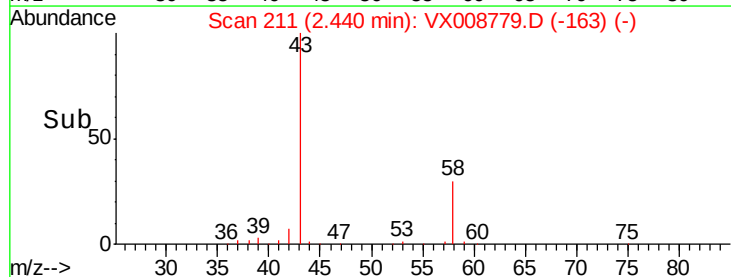
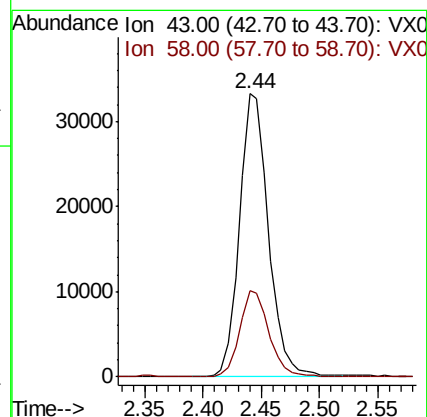
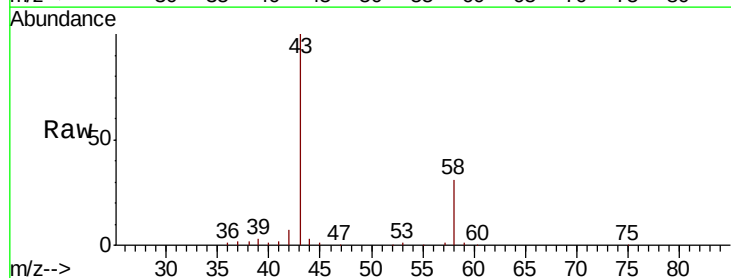
Acq: 09 Apr 2019 18:32

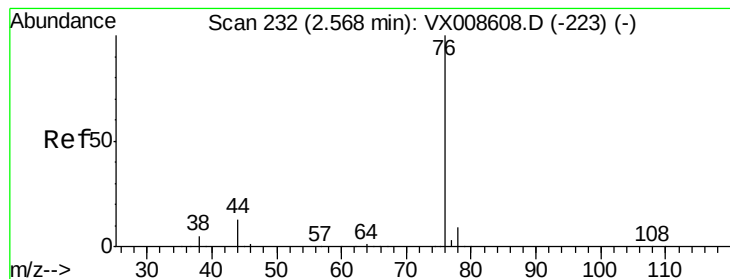
Tgt Ion: 43 Resp: 58007

Ion Ratio Lower Upper

43 100

58 30.6 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

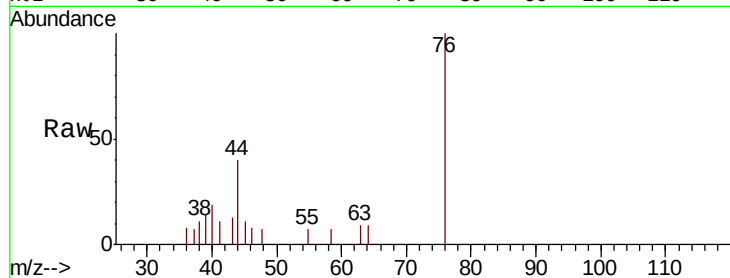
0239-COMP-CS-4-ELTRT

Tot Ion: 76 Resp: 1153

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

600

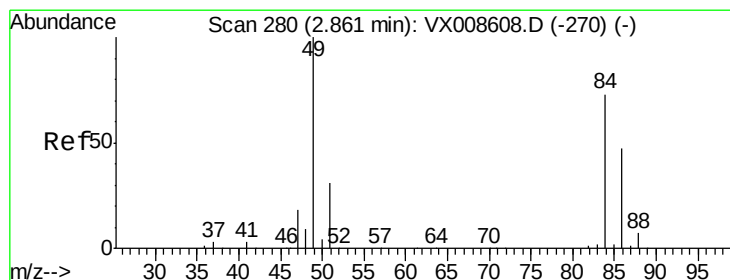
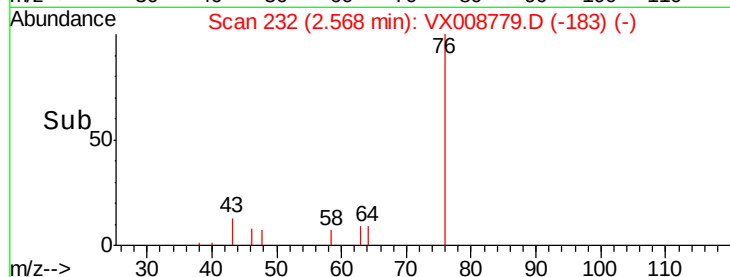
400

200

0

2.55 2.60

Time-->



#20

Methylene Chloride

Concen: 0.429 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Tgt Ion: 84 Resp: 1261

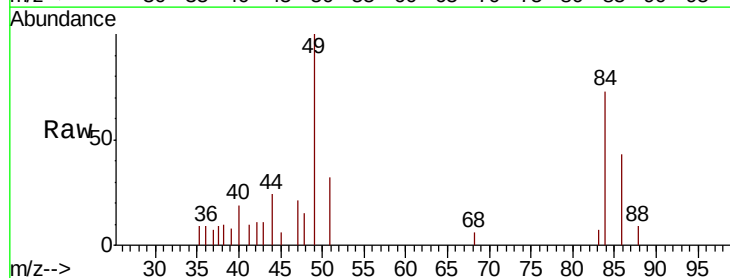
Ion Ratio Lower Upper

84 100

49 137.5 109.7 164.5

51 44.6 33.6 50.4

86 59.0 51.4 77.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

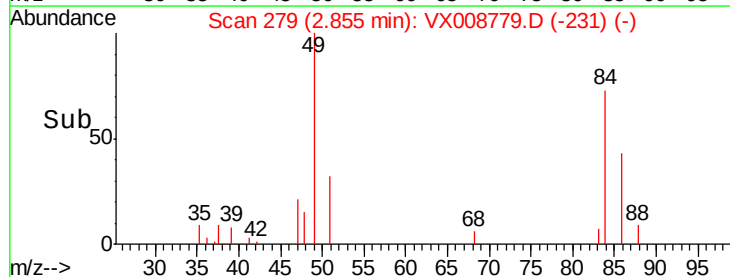
1000

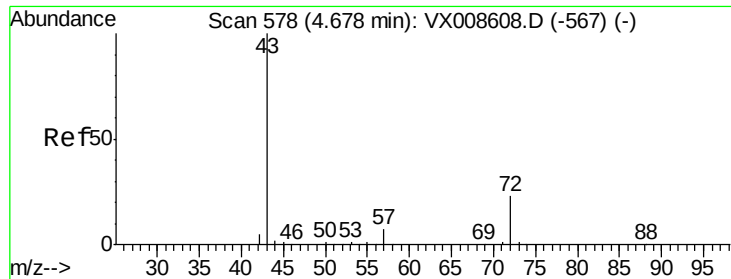
500

0

2.80 2.85 2.90

Time-->





#25

2-Butanone

Concen: 7.198 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.00 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

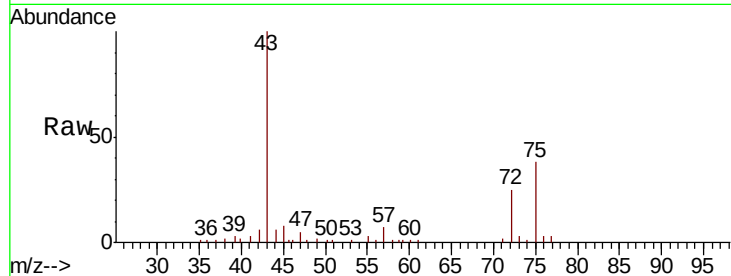
0239-COMP-CS-4-ELTRT

Tot Ion: 43 Resp: 19973

Ion Ratio Lower Upper

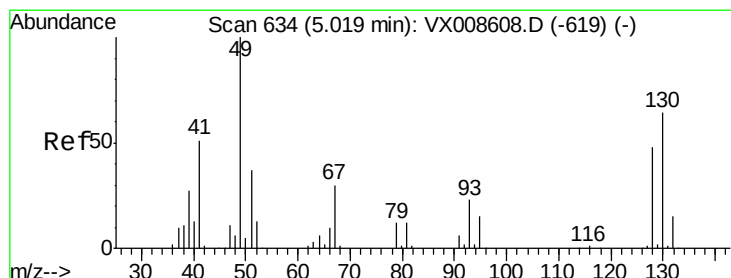
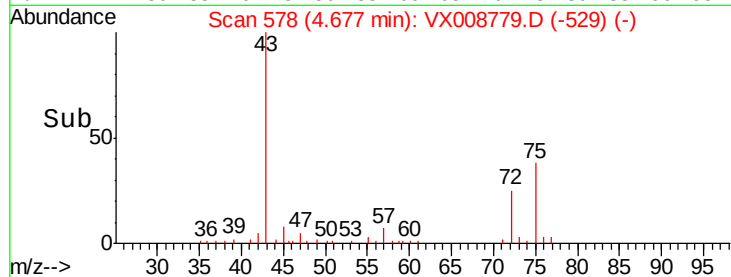
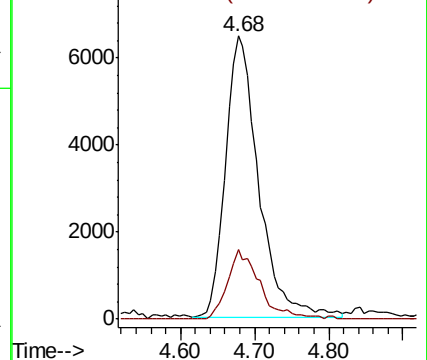
43 100

72 24.9 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

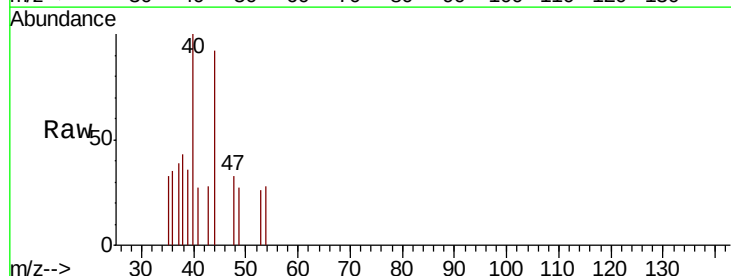
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

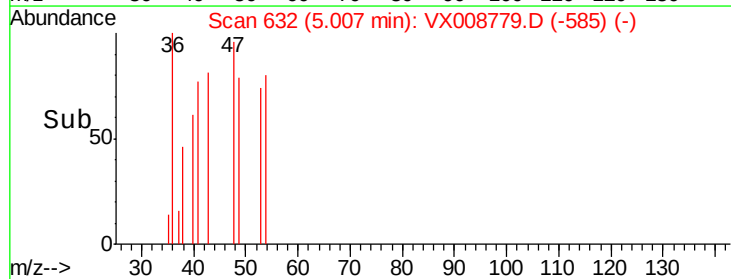
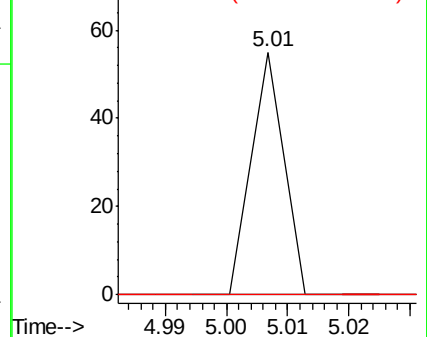
130 0.0 49.3 73.9#

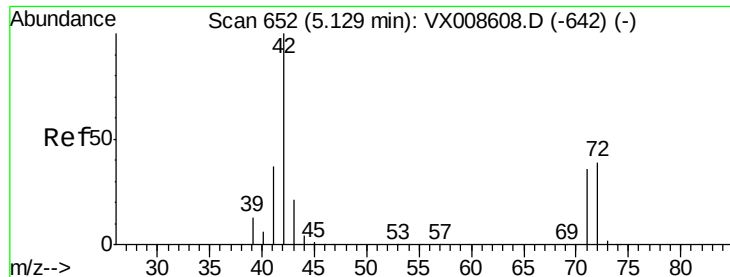


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.245 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

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ClientSampleId :

0239-COMP-CS-4-ELTRT

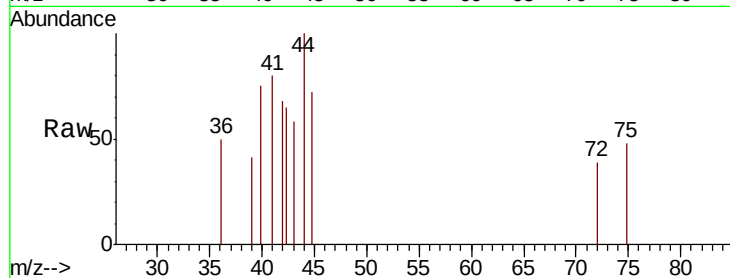
Tot Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 16.8 30.5 45.7#

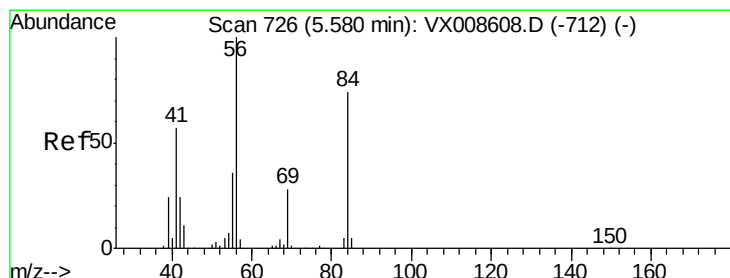
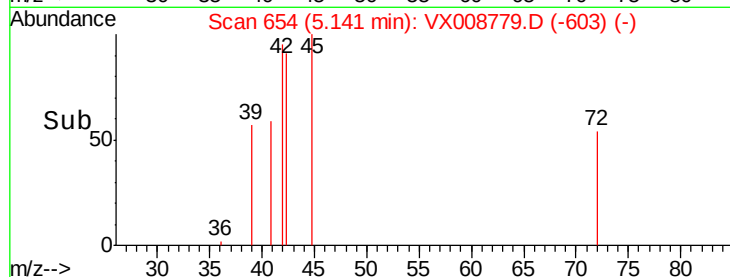
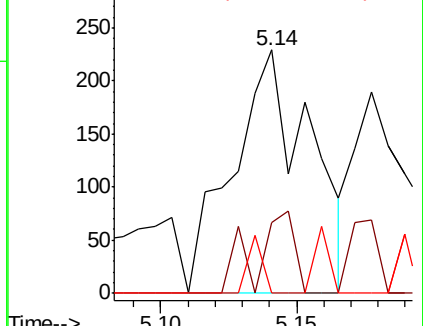
71 4.4 28.6 43.0#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.875 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

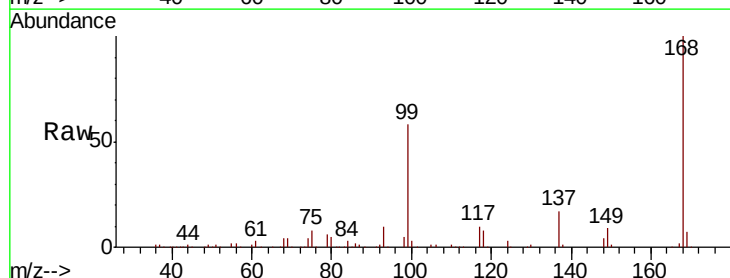
Tgt Ion: 56 Resp: 4607

Ion Ratio Lower Upper

56 100

69 184.9 22.6 33.8#

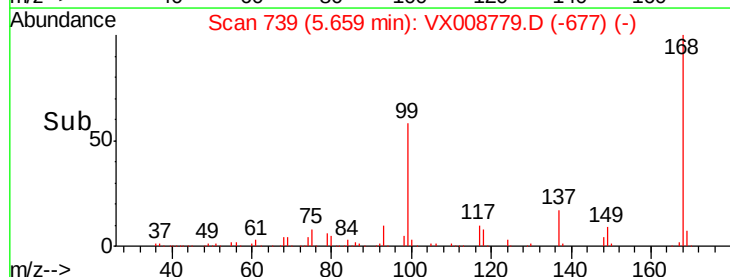
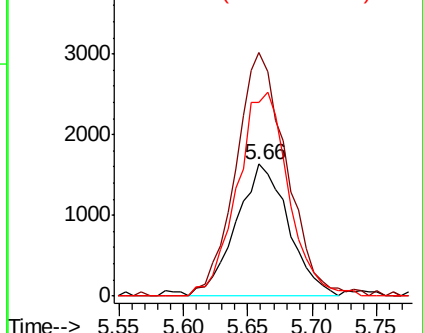
84 147.0 59.3 88.9#

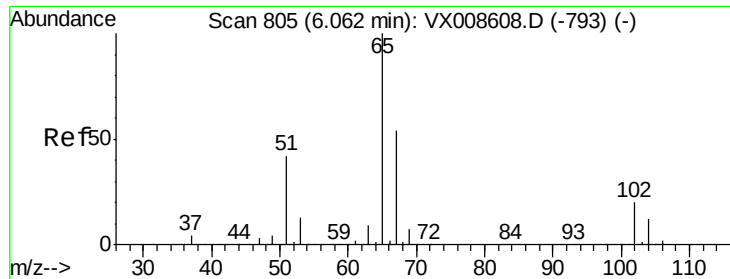


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

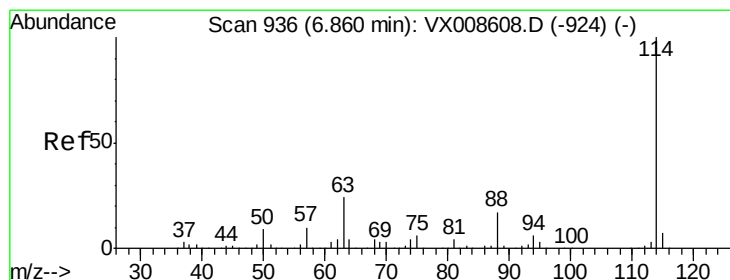
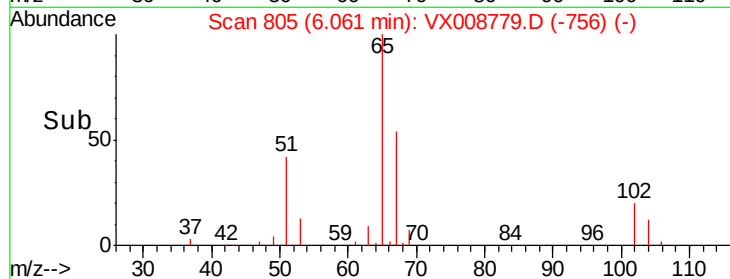
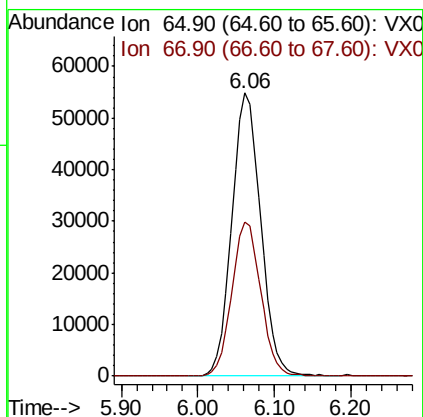
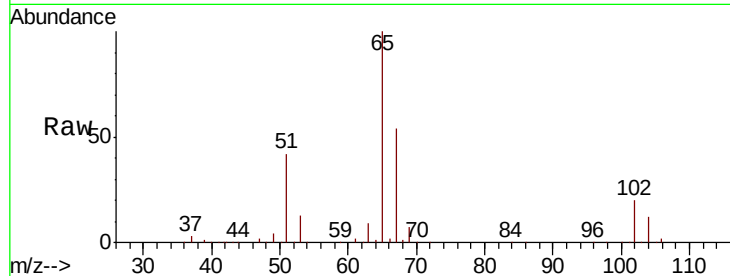




#33
 1,2-Dichloroethane-d4
 Concen: 47.077 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008779.D
 Acq: 09 Apr 2019 18:32

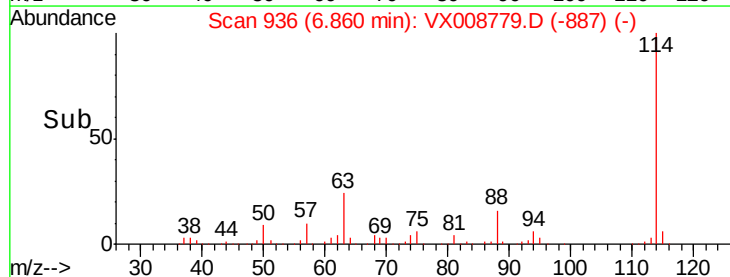
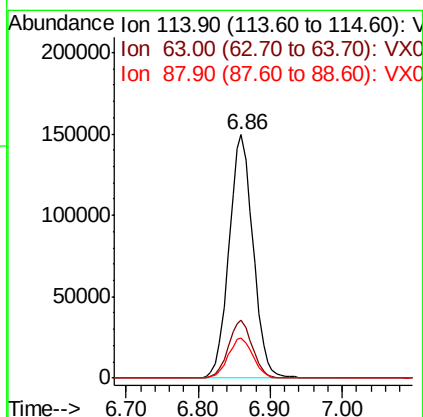
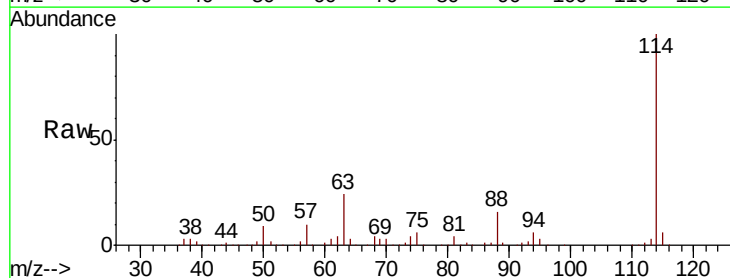
Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT

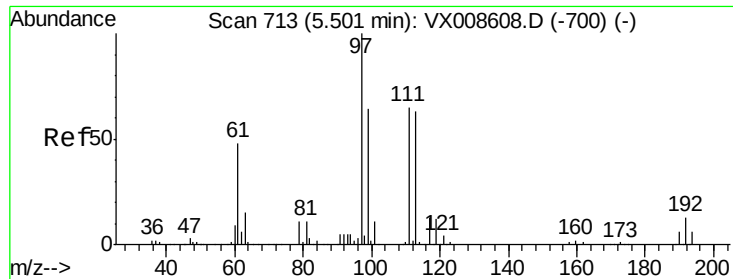
Tot Ion: 65 Resp: 143499
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008779.D
 Acq: 09 Apr 2019 18:32

Tgt Ion: 114 Resp: 346815
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 47.2
 88 16.3 0.0 34.0

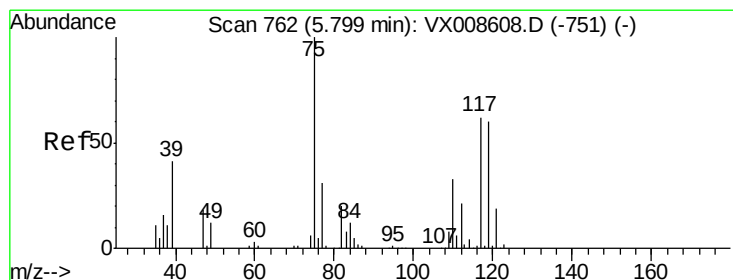
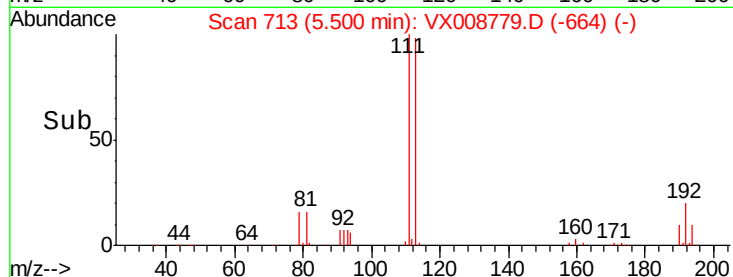
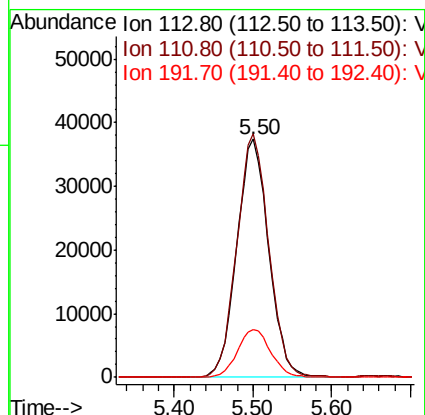
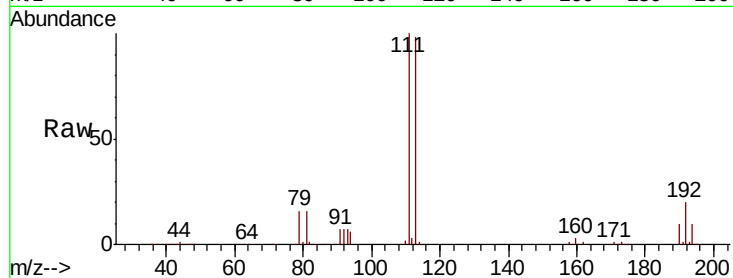




#35
 Dibromofluoromethane
 Concen: 47.393 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008779.D
 Acq: 09 Apr 2019 18:32

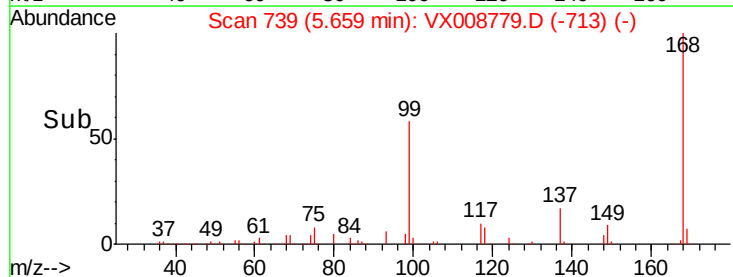
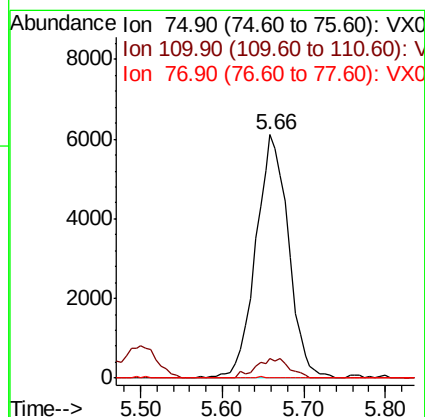
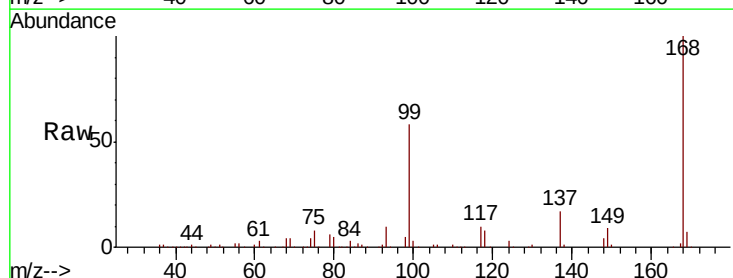
Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT

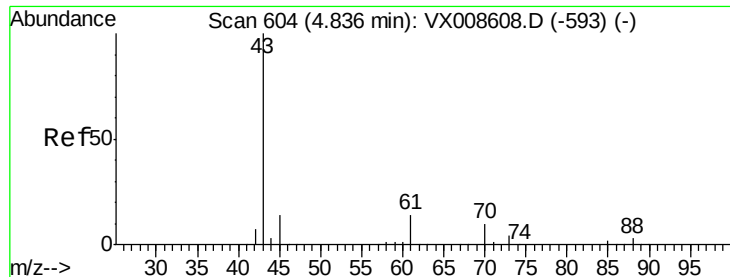
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.4	125.2
192	20.9	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 4.478 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008779.D
 Acq: 09 Apr 2019 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.4	49.2#
77	0.0	24.7	37.1#





#37

Ethyl Acetate

Concen: 3.947 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.16 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

0239-COMP-CS-4-ELTRT

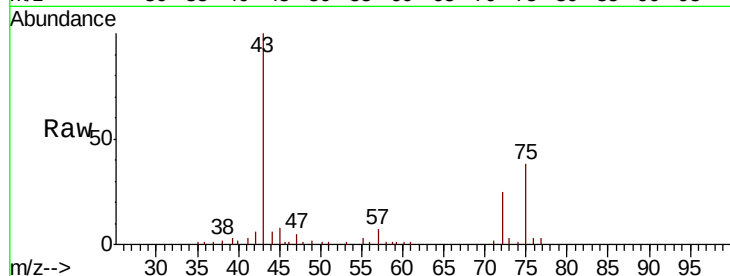
Tot Ion: 43 Resp: 19973

Ion Ratio Lower Upper

43 100

61 1.3 10.3 15.5#

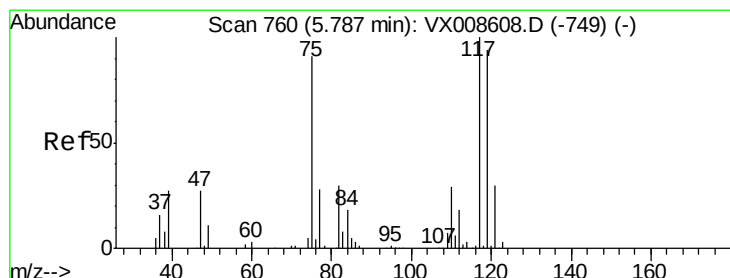
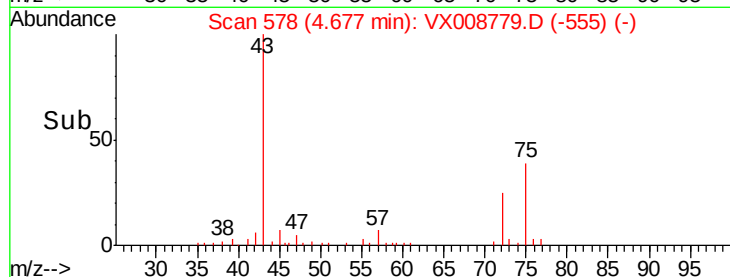
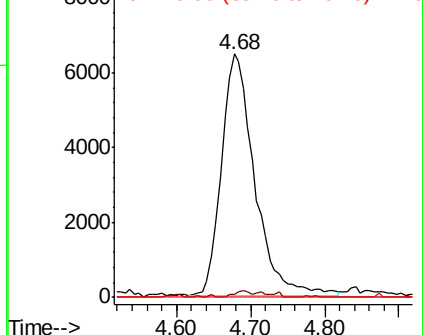
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.464 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

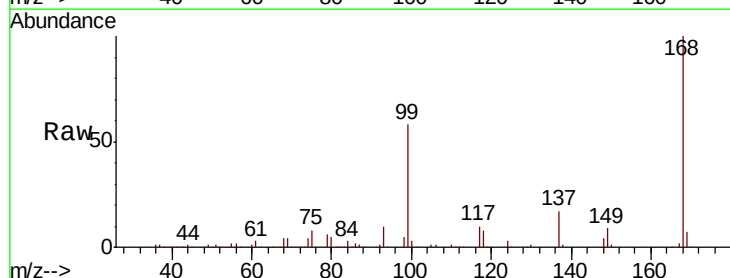
Tgt Ion: 117 Resp: 20281

Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.6#

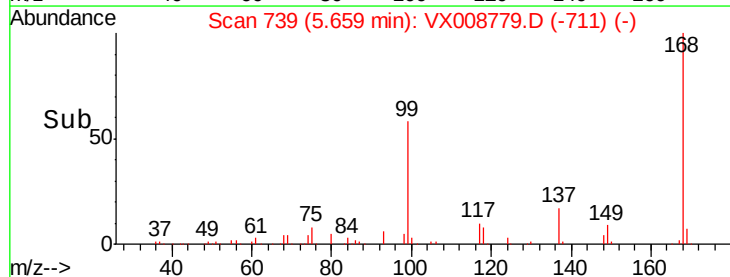
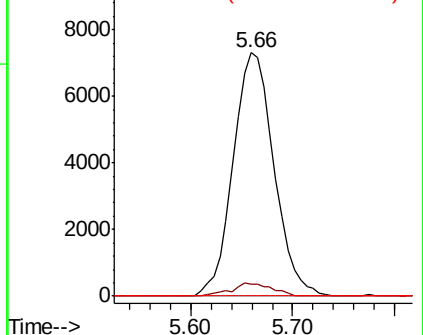
121 0.0 24.3 36.5#

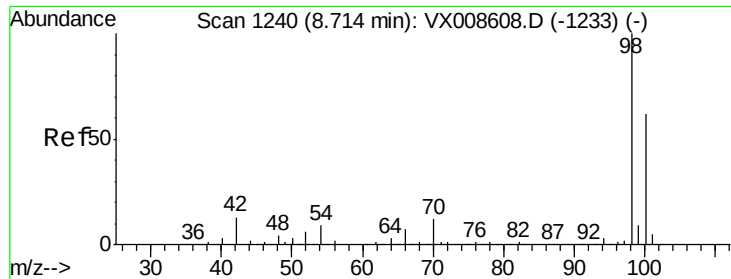


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.139 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

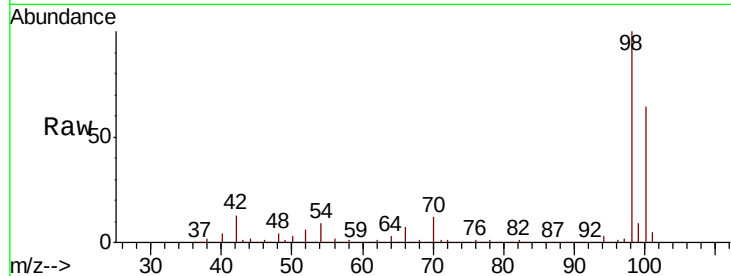
0239-COMP-CS-4-ELTRT

Tot Ion: 98 Resp: 433855

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

250000

200000

150000

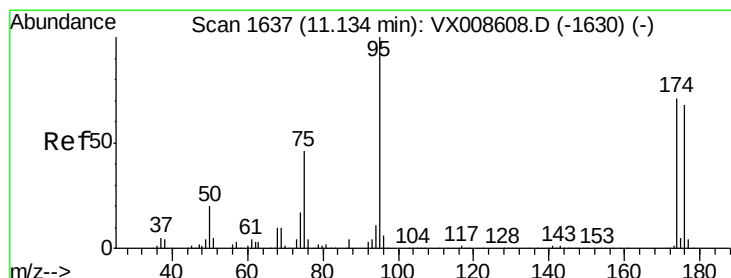
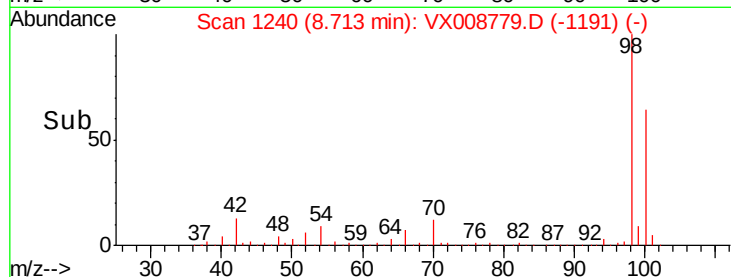
100000

50000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 45.585 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

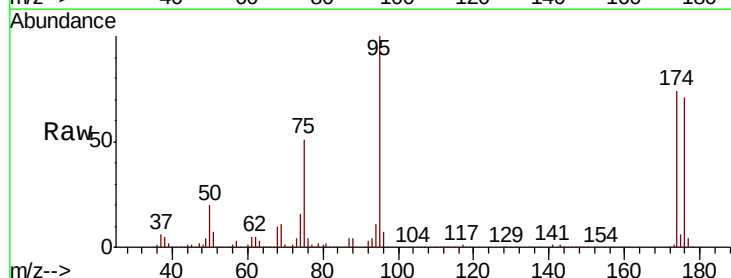
Tgt Ion: 95 Resp: 142724

Ion Ratio Lower Upper

95 100

174 78.5 0.0 151.8

176 75.4 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

11.13

150000

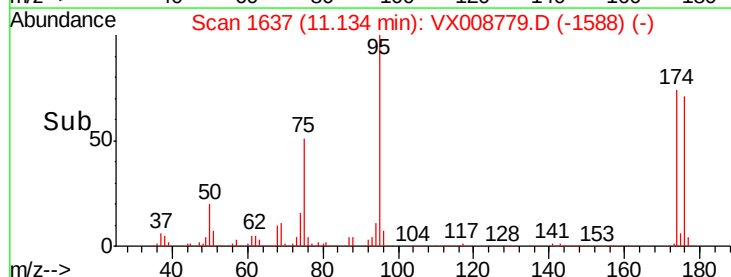
100000

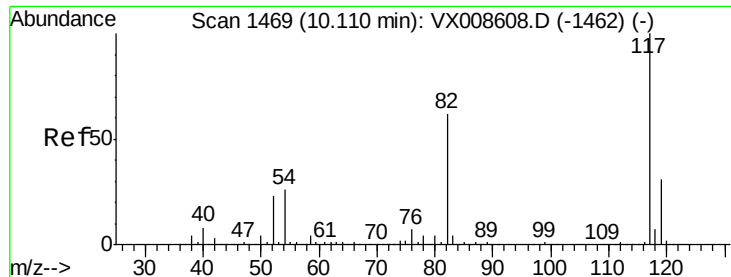
50000

0

Time-->

11.10 11.20

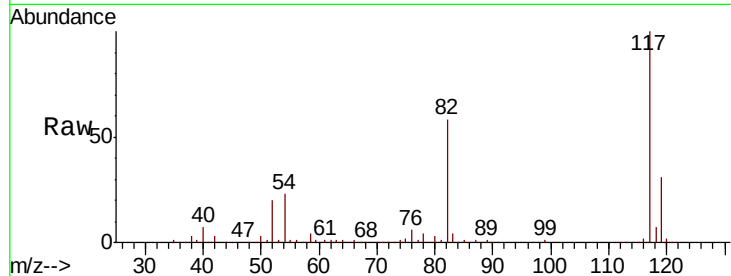




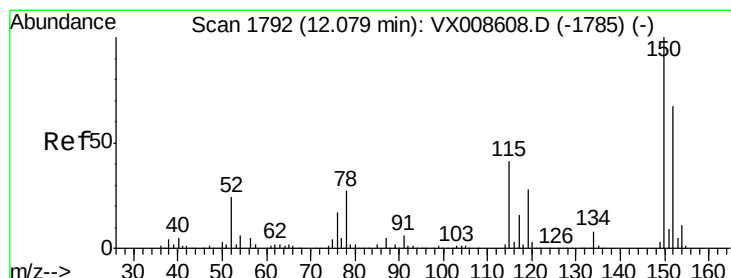
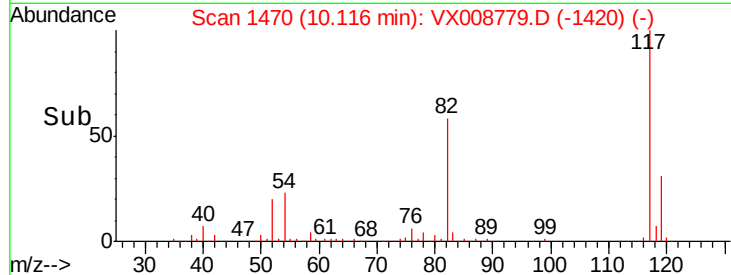
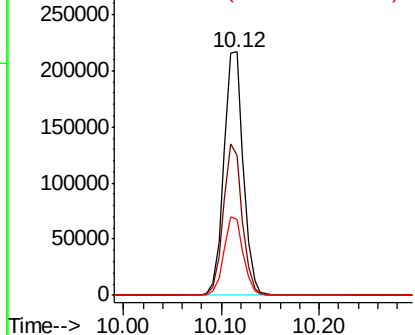
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008779.D
Acq: 09 Apr 2019 18:32

Instrument :
MSVOA_X
ClientSampleId :
0239-COMP-CS-4-ELTRT

Tot Ion:117 Resp: 298946
Ion Ratio Lower Upper
117 100
82 57.6 49.6 74.4
119 31.4 25.0 37.4

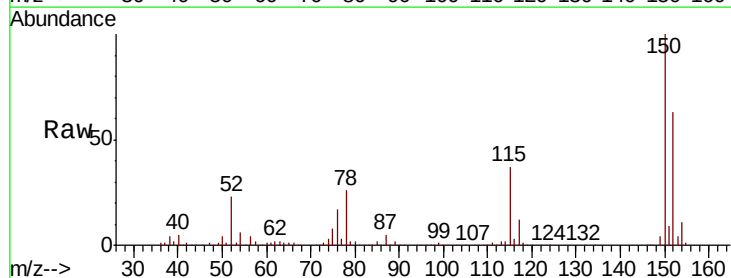


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

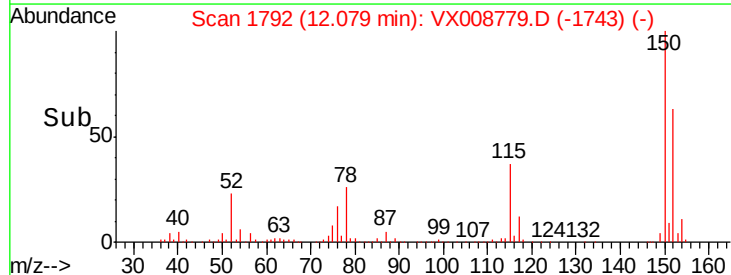
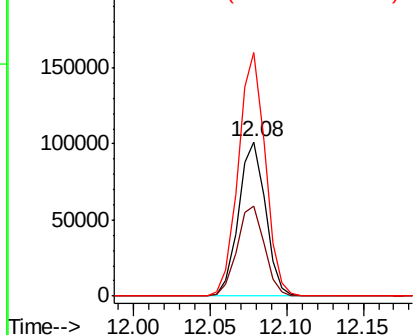


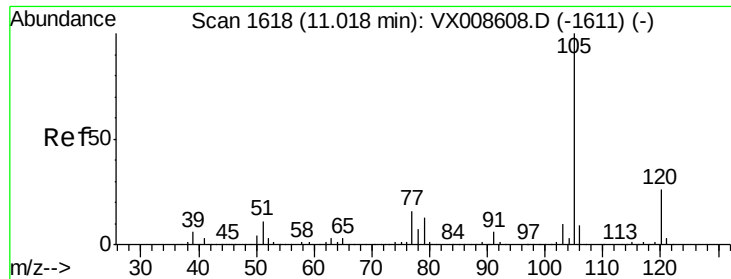
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008779.D
Acq: 09 Apr 2019 18:32

Tgt Ion:152 Resp: 123869
Ion Ratio Lower Upper
152 100
115 59.3 43.5 130.5
150 157.4 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





#73

Isopropylbenzene

Concen: 0.415 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008779.D

Acq: 09 Apr 2019 18:32

Instrument :

MSVOA_X

ClientSampleId :

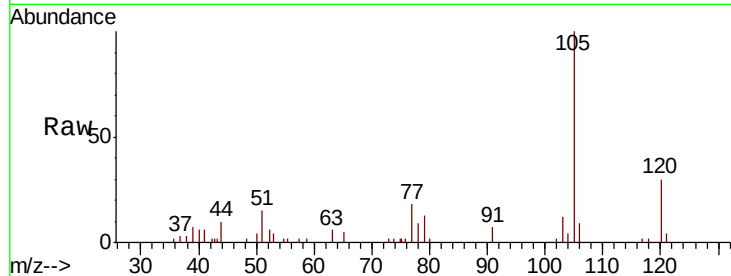
0239-COMP-CS-4-ELTRT

Tot Ion: 105 Resp: 4262

Ion Ratio Lower Upper

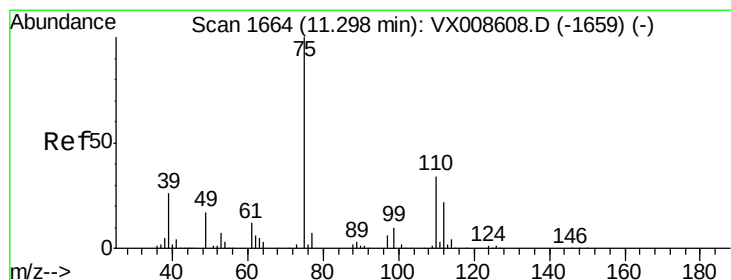
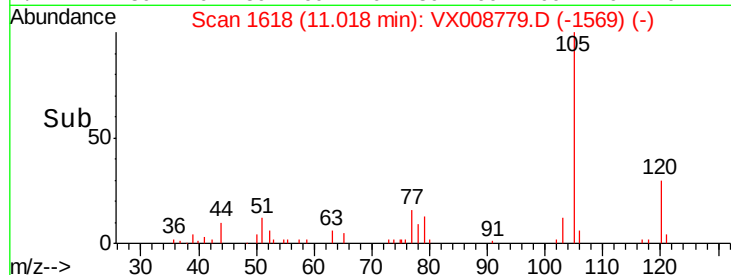
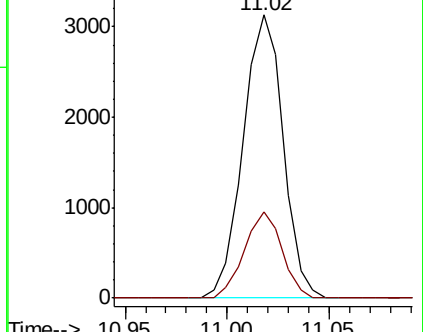
105 100

120 28.6 12.9 38.6



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: 21.480 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008779.D

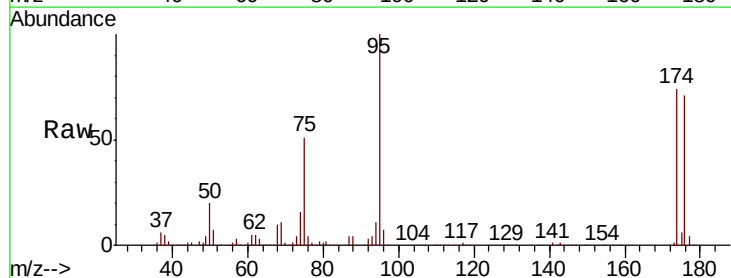
Acq: 09 Apr 2019 18:32

Tgt Ion: 75 Resp: 73092

Ion Ratio Lower Upper

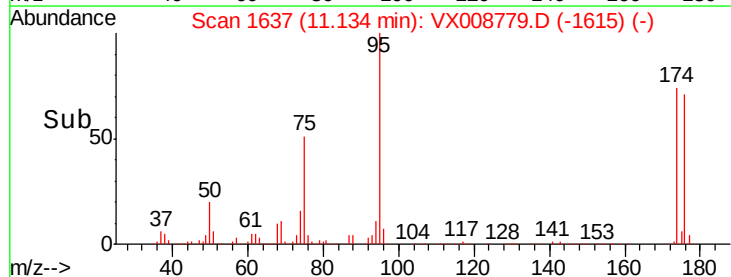
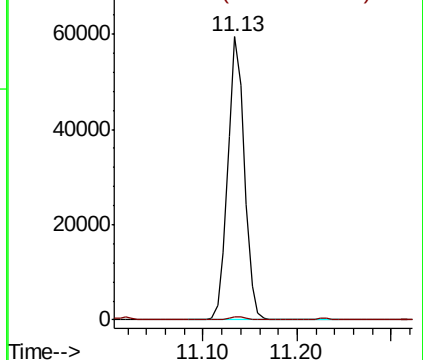
75 100

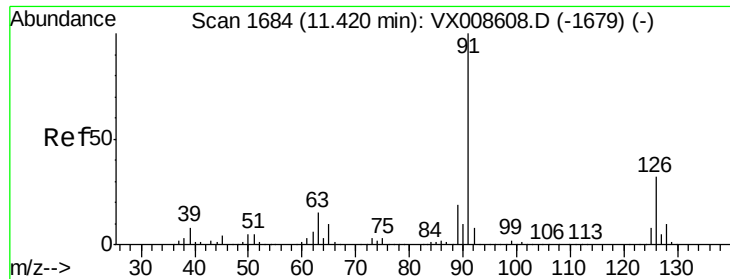
77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

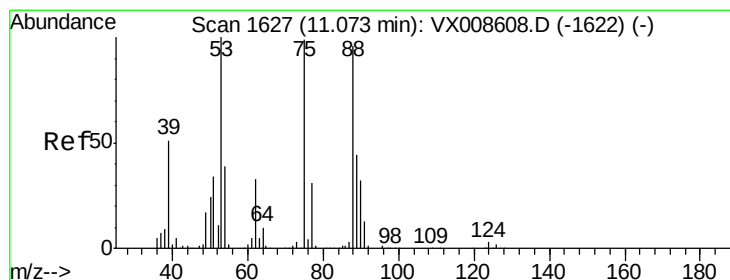
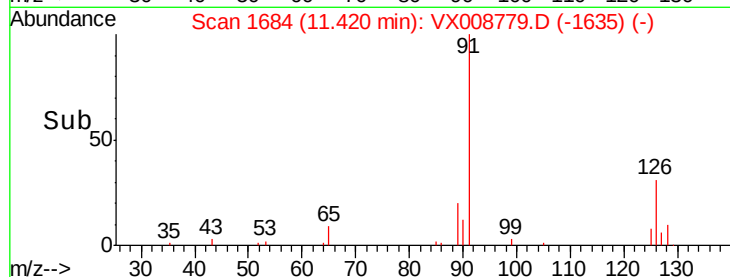
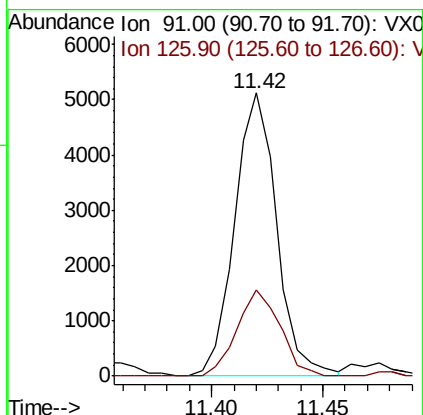
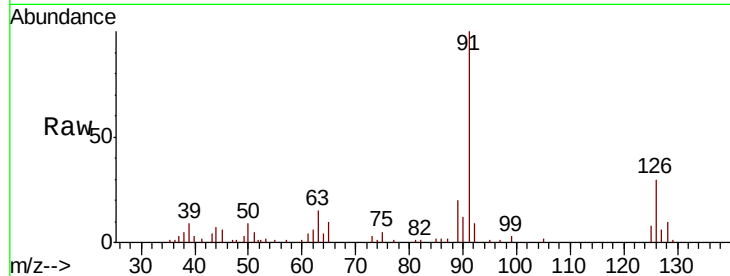




#79
 2-Chlorotoluene
 Concen: 0.932 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. -0.00 min
 Lab File: VX008779.D
 Acq: 09 Apr 2019 18:32

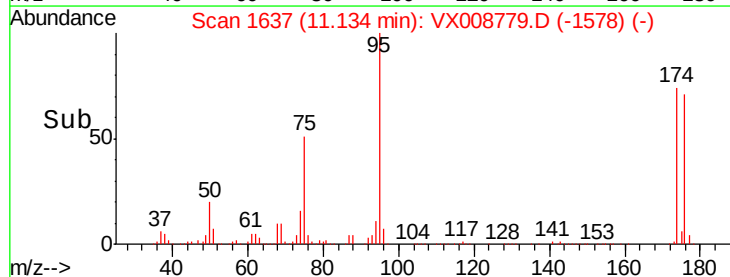
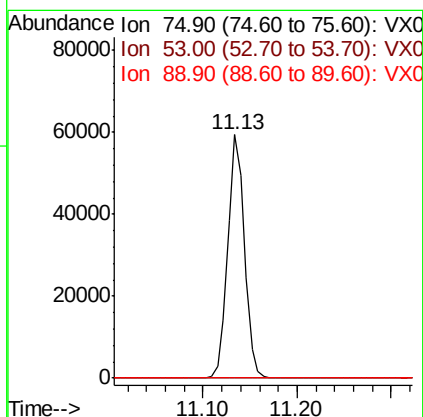
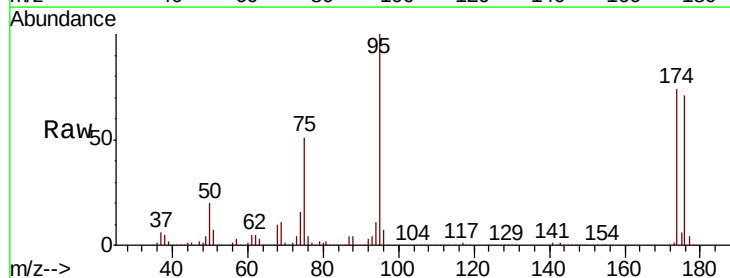
Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT

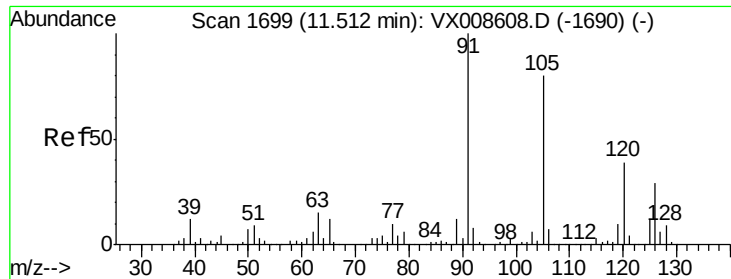
Tot Ion: 91 Resp: 6742
 Ion Ratio Lower Upper
 91 100
 126 30.9 16.1 48.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.211 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008779.D
 Acq: 09 Apr 2019 18:32

Tgt Ion: 75 Resp: 73092
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.3 121.9#
 89 0.0 35.6 53.4#

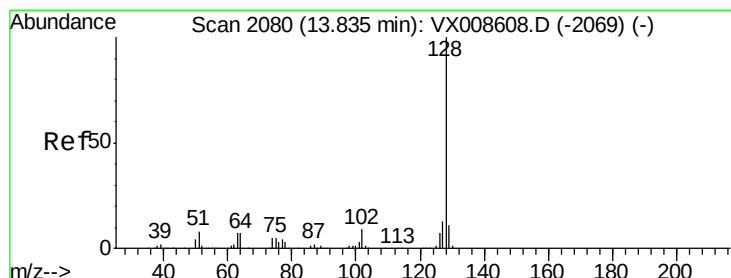
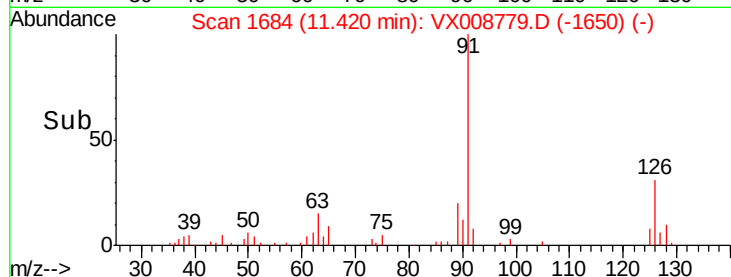
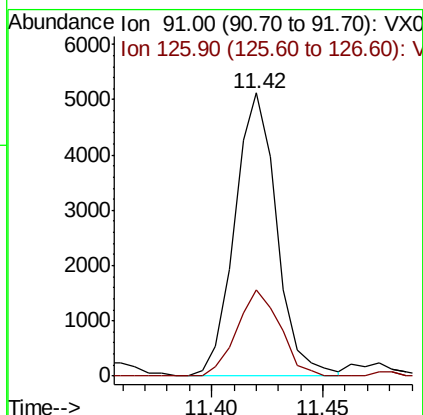
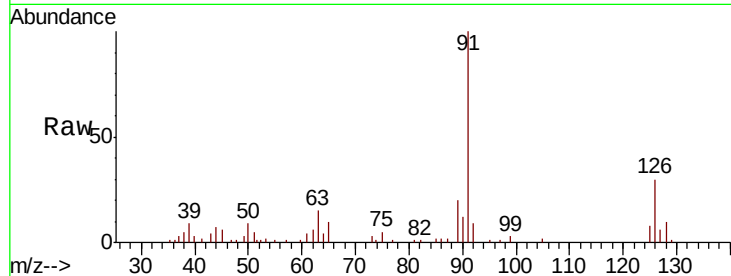




#82
4-Chlorotoluene
Concen: 0.805 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. -0.09 min
Lab File: VX008779.D
Acq: 09 Apr 2019 18:32

Instrument :
MSVOA_X
ClientSampleId :
0239-COMP-CS-4-ELTRT

Tot Ion: 91 Resp: 6742
Ion Ratio Lower Upper
91 100
126 30.9 13.9 41.6



#95
Naphthalene
Concen: 0.535 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008779.D
Acq: 09 Apr 2019 18:32

Tgt Ion: 128 Resp: 5458
Ion Ratio Lower Upper
128 100
127 14.9 10.4 15.6
129 12.6 8.6 13.0

