

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040619\
 Data File : VX008716.D
 Acq On : 06 Apr 2019 13:31
 Operator : JC/SP
 Sample : K2311-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 0168-SITE-WATER

Quant Time: Apr 08 01:53:08 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	5.66	168	206700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	345459	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	299669	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126225	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	141197	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
35) Dibromofluoromethane	5.50	113	103707	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	
50) Toluene-d8	8.71	98	430758	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	11.13	95	146041	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	

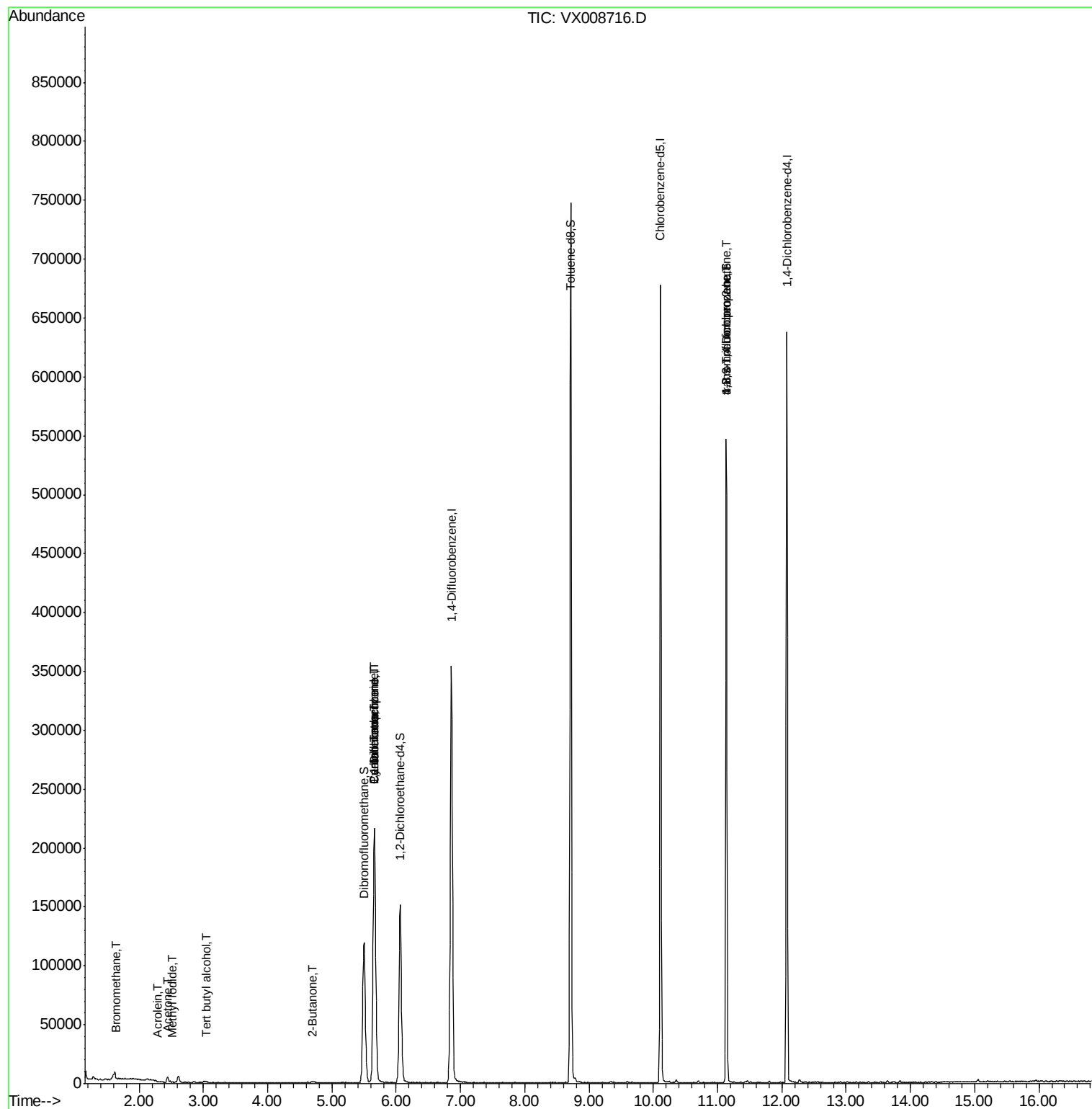
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	593	Below Cal		100
5) Bromomethane	1.64	94	373	2.112	ug/l	95
6) Chloroethane	1.70	64	387	Below Cal	#	87
10) Methyl Iodide	2.51	142	137	4.064	ug/l #	42
11) Tert butyl alcohol	3.05	59	1495	2.118	ug/l	100
13) Acrolein	2.29	56	145	0.414	ug/l #	16
16) Acetone	2.44	43	5669	3.265	ug/l	92
17) Carbon Disulfide	2.57	76	582	Below Cal	#	75
25) 2-Butanone	4.70	43	552	0.201	ug/l	91
28) Bromochloromethane	5.00	49	20	Below Cal	#	22
31) Cyclohexane	5.66	56	4767	0.915	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16888	4.472	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19668	6.293	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	74187	21.395	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	74187	58.976	ug/l #	9

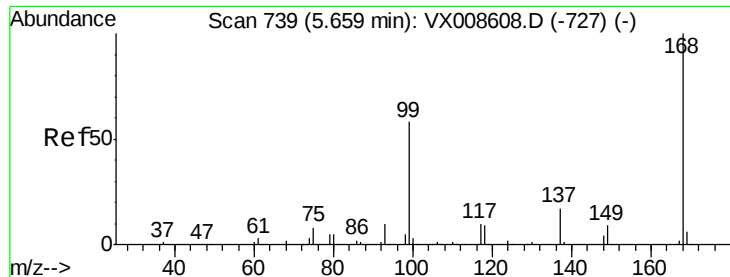
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

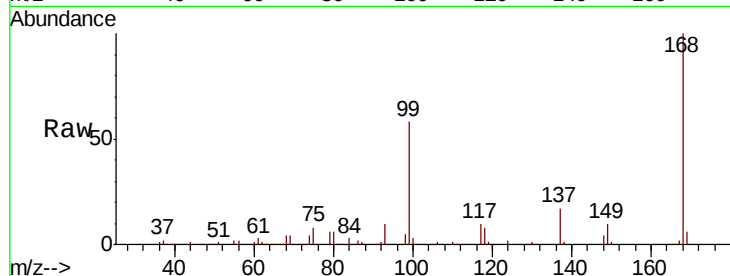
0168-SITE-WATER

Tot Ion:168 Resp: 206700

Ion Ratio Lower Upper

168 100

99 58.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

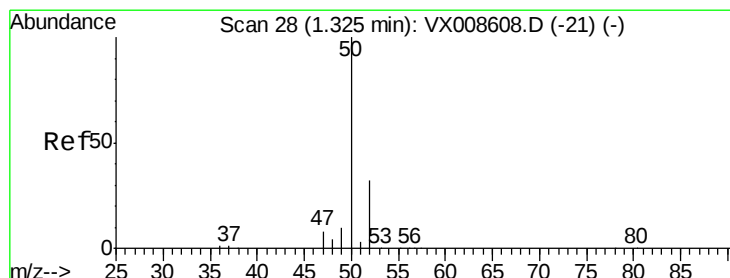
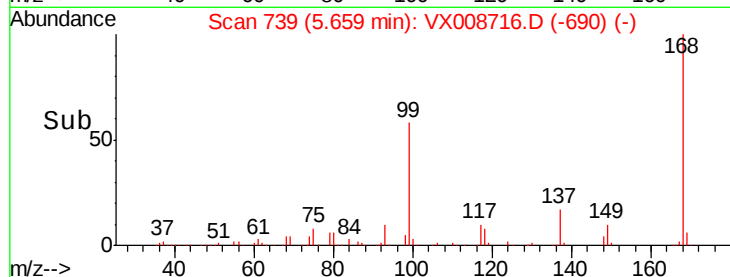
60000

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: VX008716.D

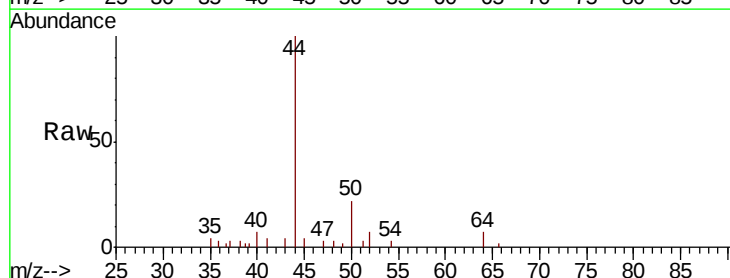
Acq: 06 Apr 2019 13:31

Tgt Ion: 50 Resp: 593

Ion Ratio Lower Upper

50 100

52 32.3 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

600

500

400

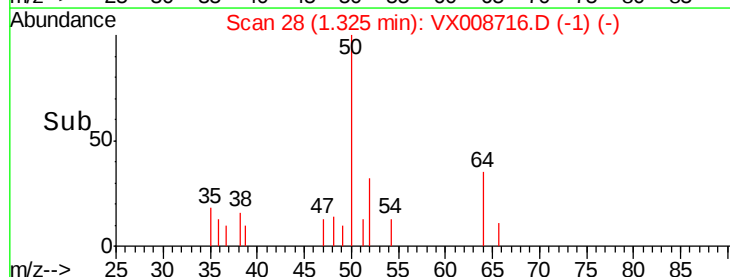
300

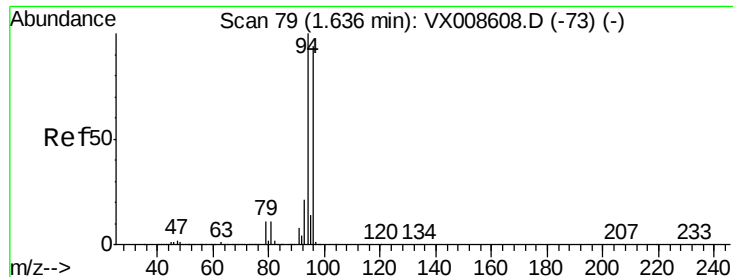
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.112 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

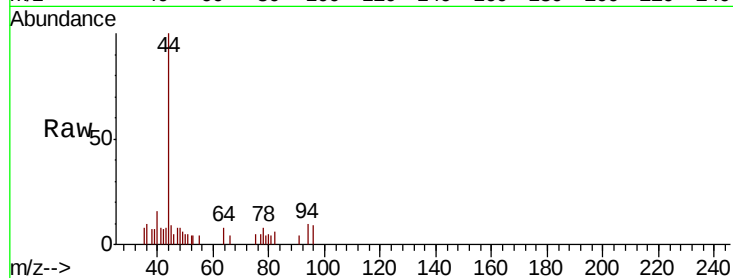
0168-SITE-WATER

Tot Ion: 94 Resp: 373

Ion Ratio Lower Upper

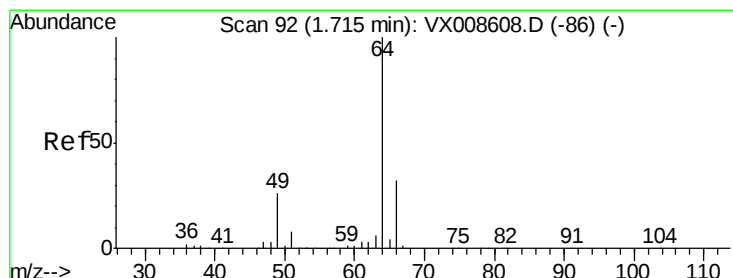
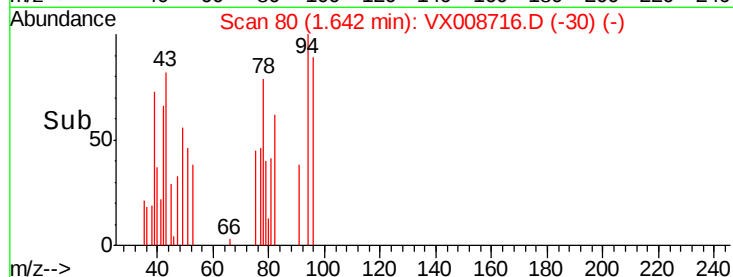
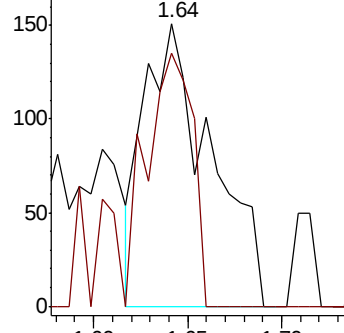
94 100

96 89.4 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: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX008716.D

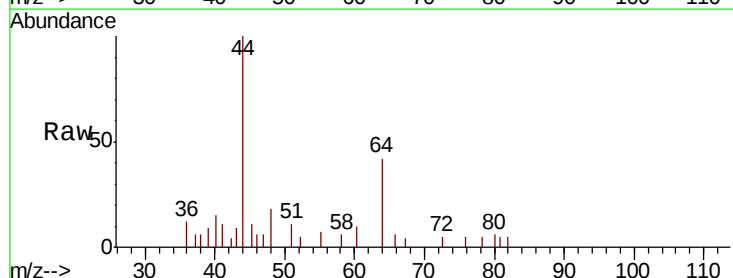
Acq: 06 Apr 2019 13:31

Tgt Ion: 64 Resp: 387

Ion Ratio Lower Upper

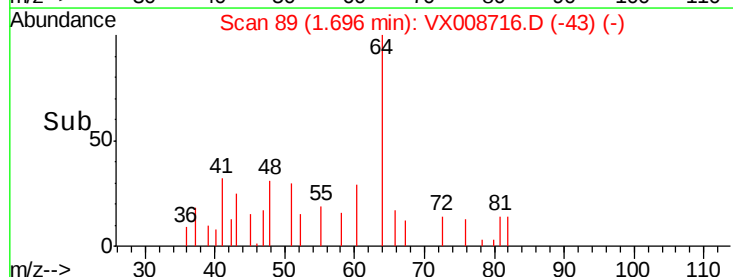
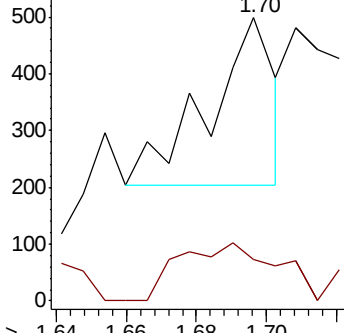
64 100

66 24.4 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

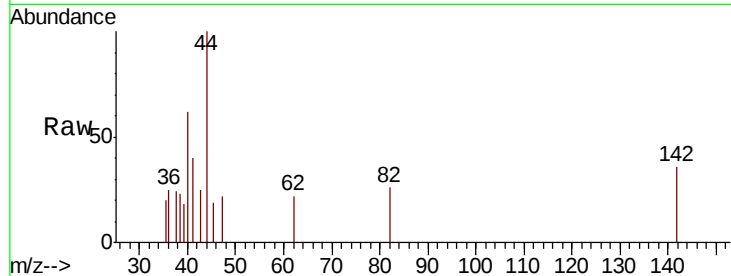




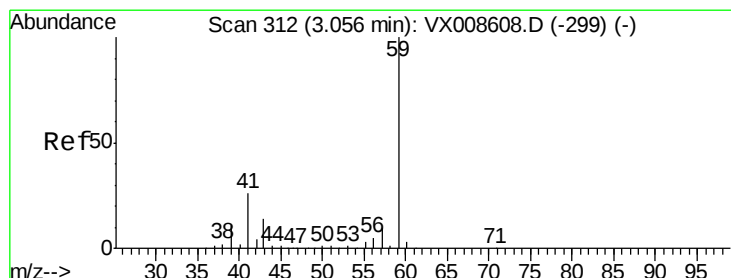
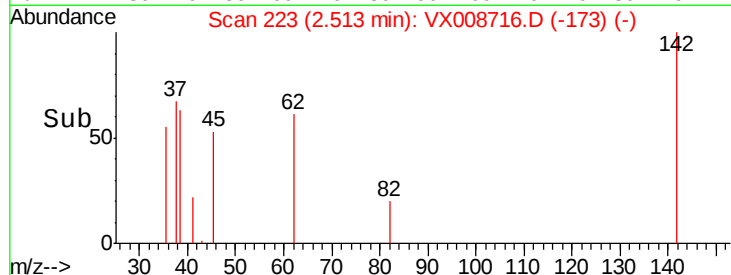
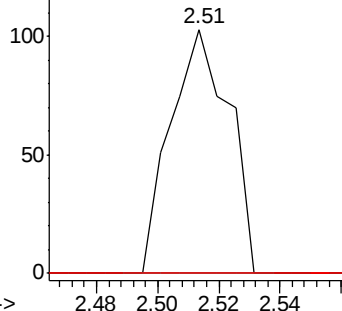
#10
Methvl Iodide
Concen: 4.064 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008716.D
Acq: 06 Apr 2019 13:31

Instrument :
MSVOA_X
ClientSampleId :
0168-SITE-WATER

Tot Ion:142 Resp: 137
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#

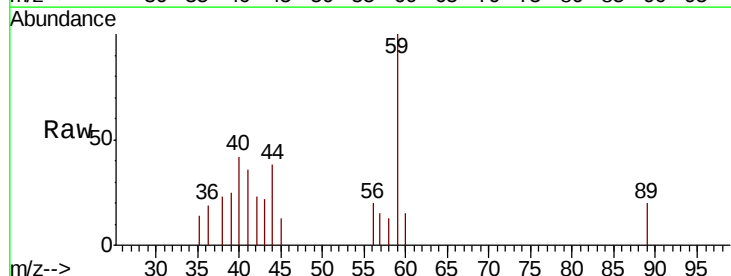


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

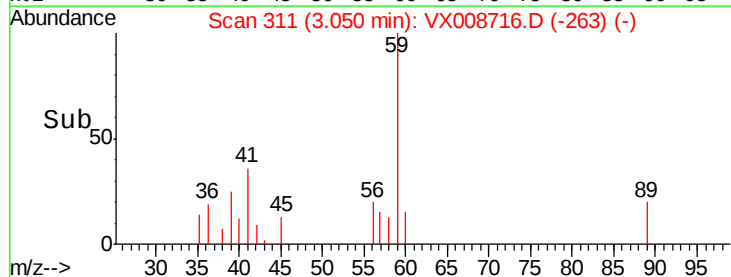
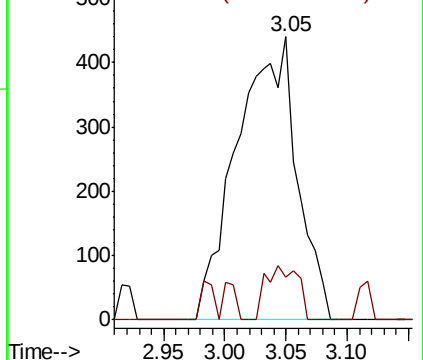


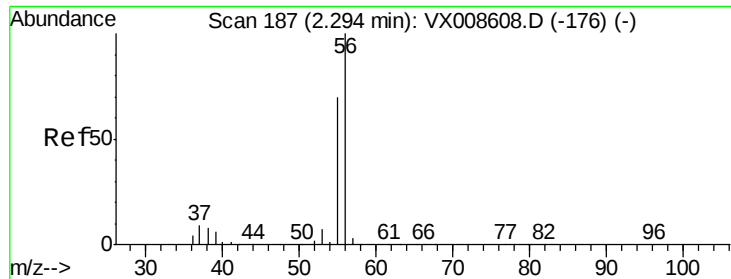
#11
Tert butyl alcohol
Concen: 2.118 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.01 min
Lab File: VX008716.D
Acq: 06 Apr 2019 13:31

Tgt Ion: 59 Resp: 1495
Ion Ratio Lower Upper
59 100
57 10.3 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: 0.414 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

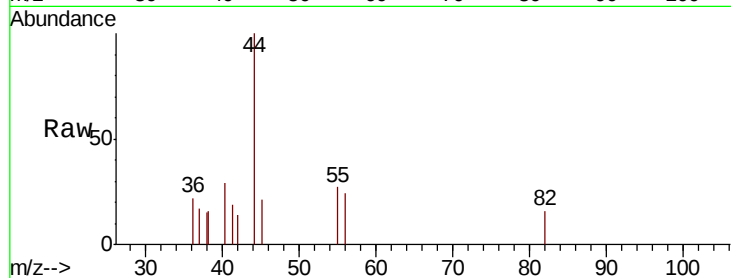
0168-SITE-WATER

Tot Ion: 56 Resp: 145

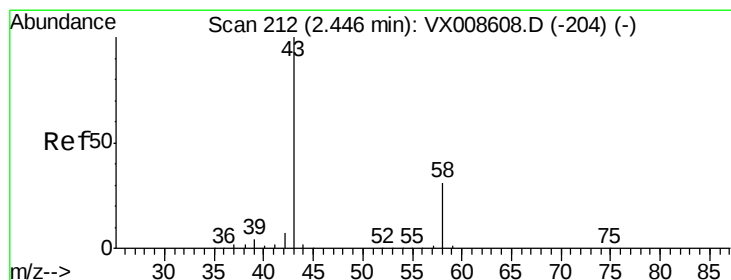
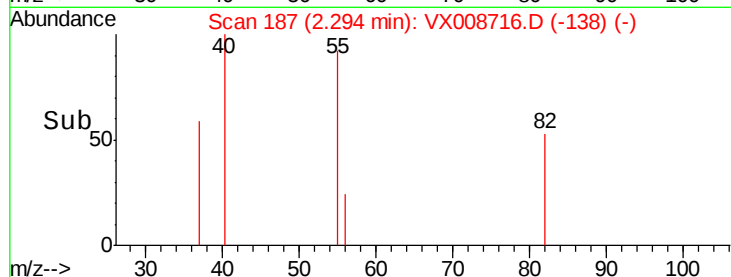
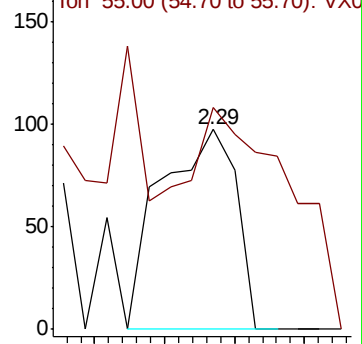
Ion Ratio Lower Upper

56 100

55 142.8 58.0 87.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0



#16

Acetone

Concen: 3.265 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008716.D

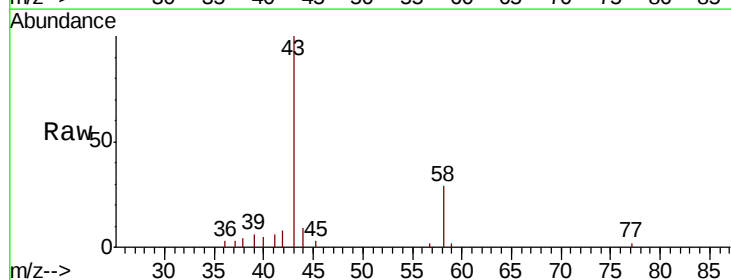
Acq: 06 Apr 2019 13:31

Tgt Ion: 43 Resp: 5669

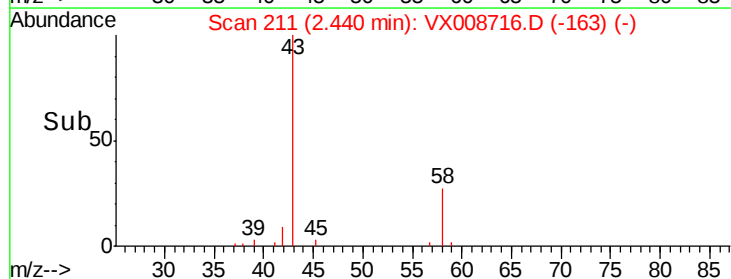
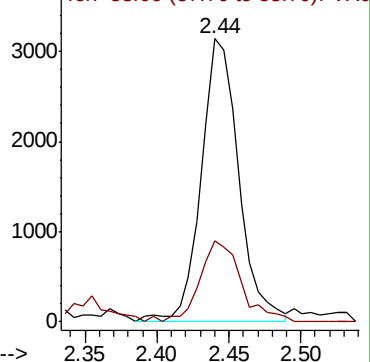
Ion Ratio Lower Upper

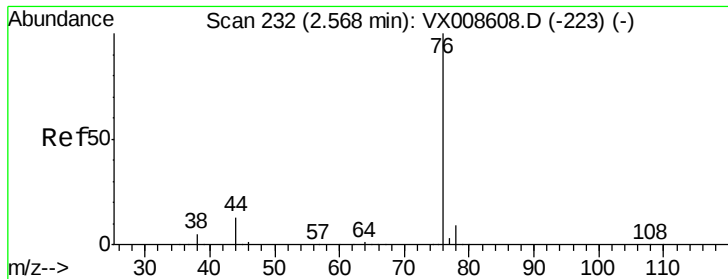
43 100

58 26.8 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

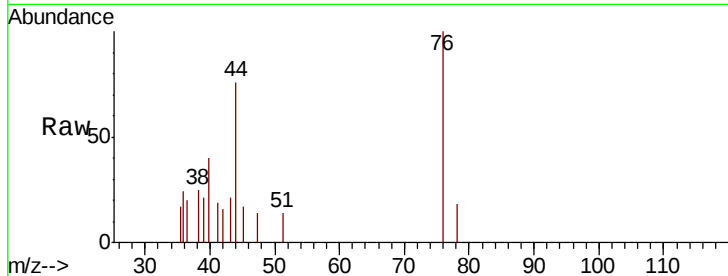
0168-SITE-WATER

Tot Ion: 76 Resp: 582

Ion Ratio Lower Upper

76 100

78 18.0 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

400

300

200

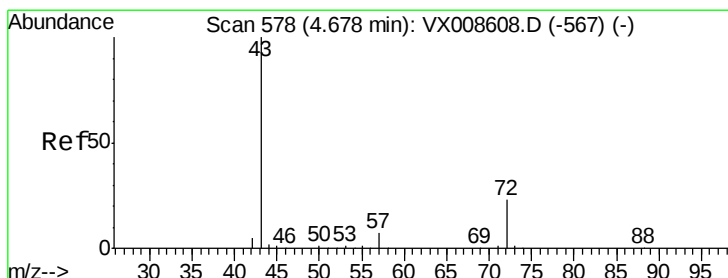
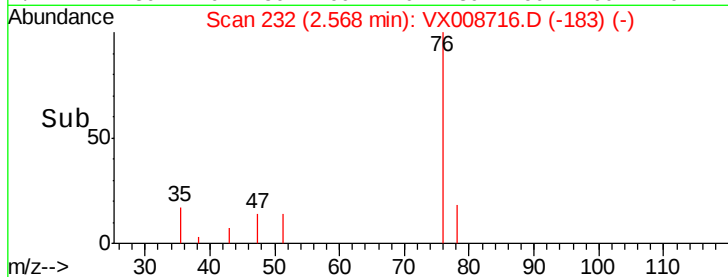
100

0

2.55

2.60

Time-->



#25

2-Butanone

Concen: 0.201 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.02 min

Lab File: VX008716.D

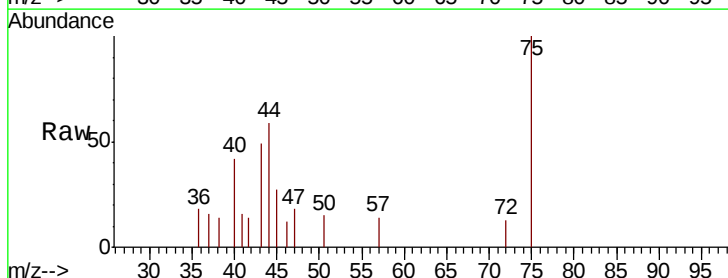
Acq: 06 Apr 2019 13:31

Tgt Ion: 43 Resp: 552

Ion Ratio Lower Upper

43 100

72 27.3 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

250

200

150

100

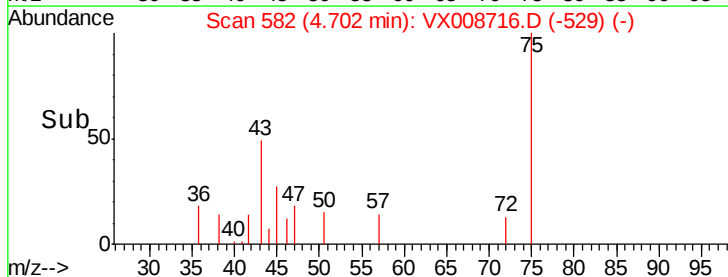
50

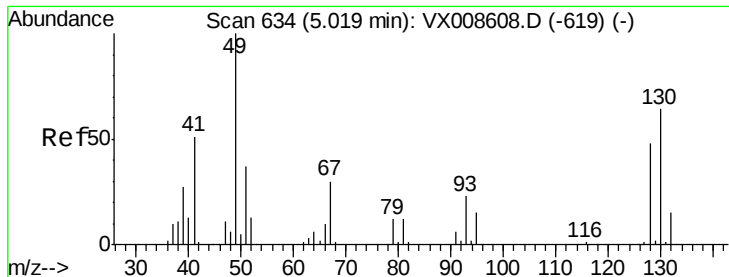
0

4.65

4.70

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

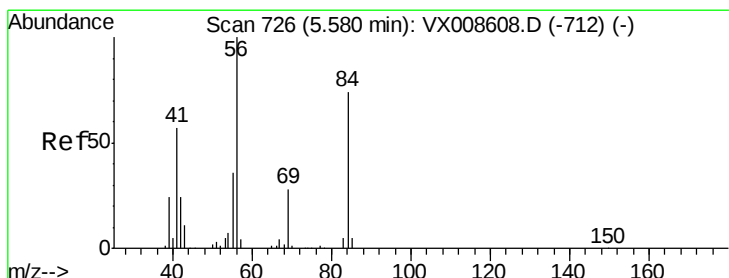
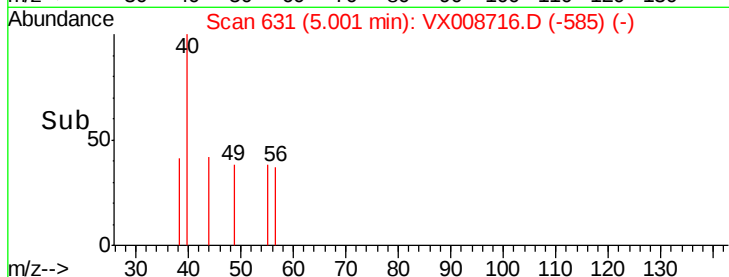
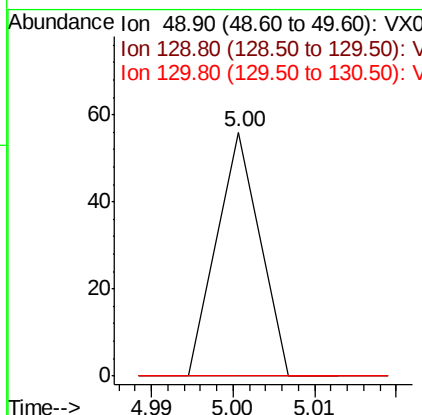
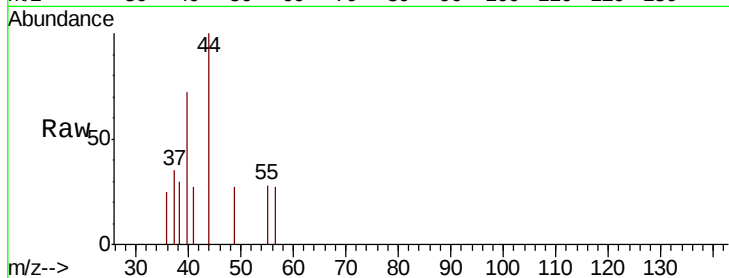
Delta R.T. -0.02 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :
MSVOA_X
ClientSampleId :
0168-SITE-WATER

Tot Ion:	49	Resp:	20
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



#31

Cyclohexane

Concen: 0.915 ug/l

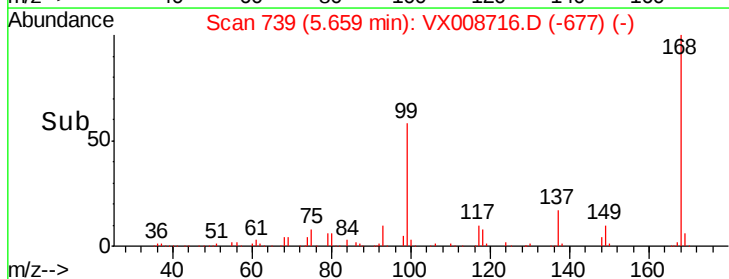
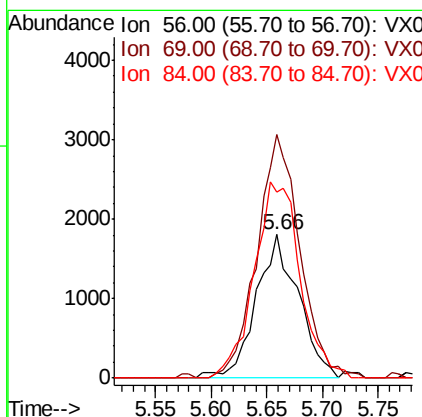
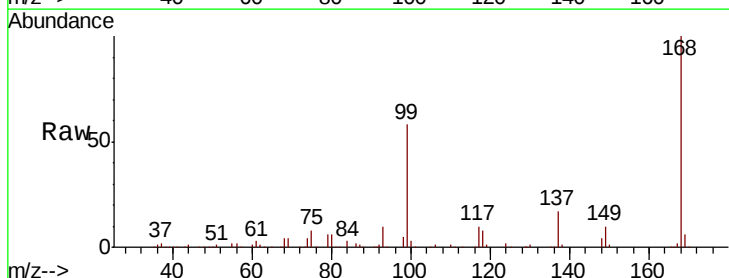
RT: 5.66 min Scan# 739

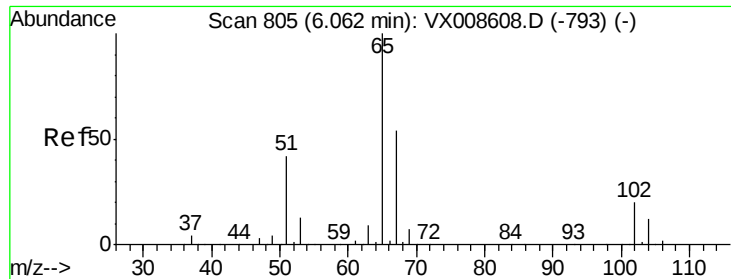
Delta R.T. 0.08 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Tgt Ion:	56	Resp:	4767
Ion	Ratio	Lower	Upper
56	100		
69	166.8	22.6	33.8#
84	129.5	59.3	88.9#





#33

1,2-Dichloroethane-d4

Concen: 46.834 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

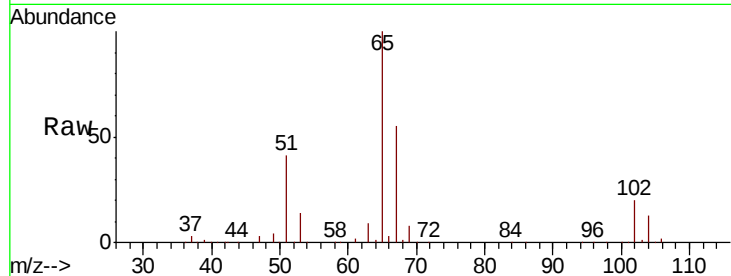
0168-SITE-WATER

Tot Ion: 65 Resp: 141197

Ion Ratio Lower Upper

65 100

67 54.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

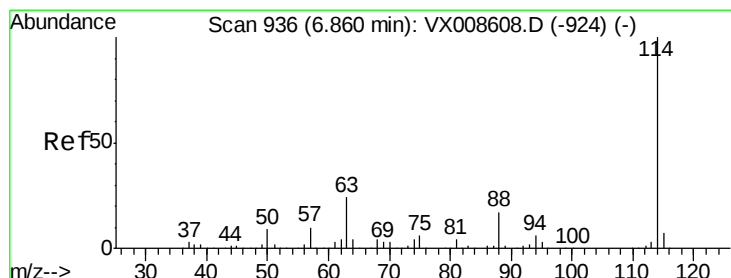
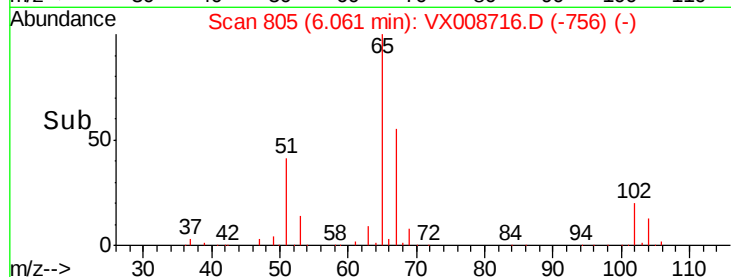
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

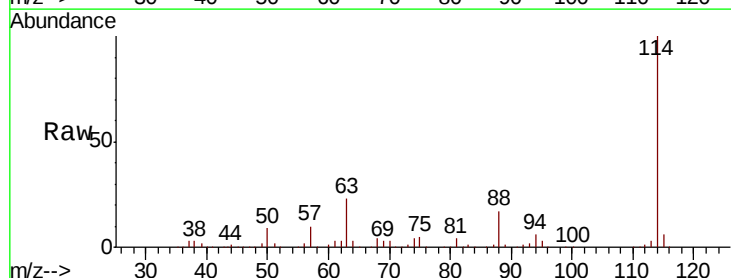
Tgt Ion: 114 Resp: 345459

Ion Ratio Lower Upper

114 100

63 23.1 0.0 47.2

88 16.9 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

200000

150000

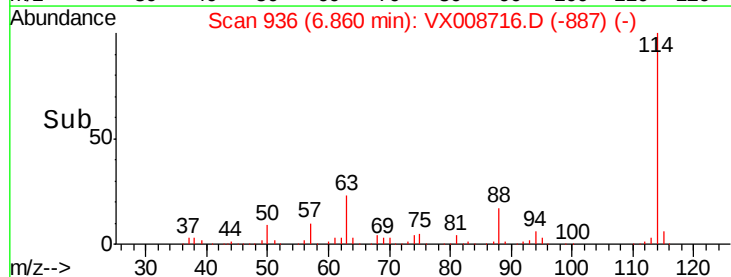
100000

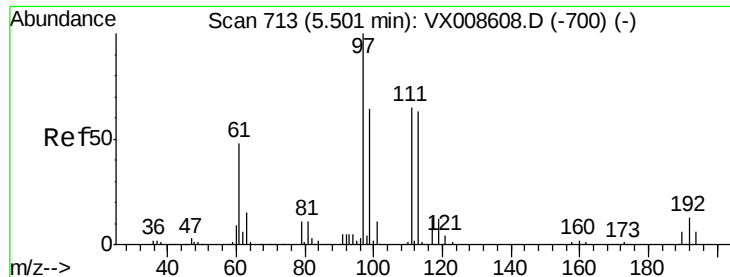
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 46.953 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

0168-SITE-WATER

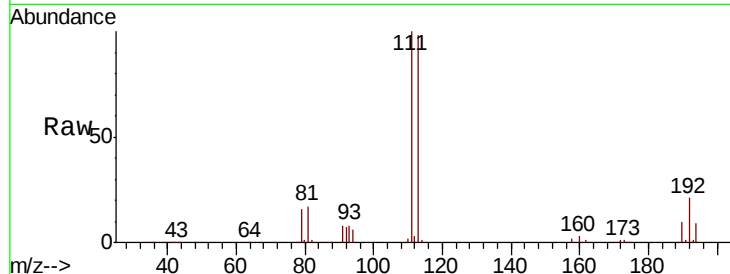
Tot Ion:113 Resp: 103707

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.2

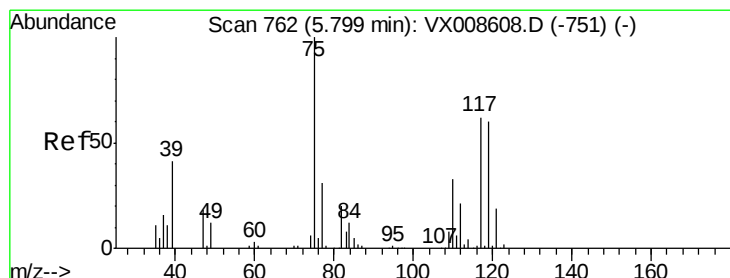
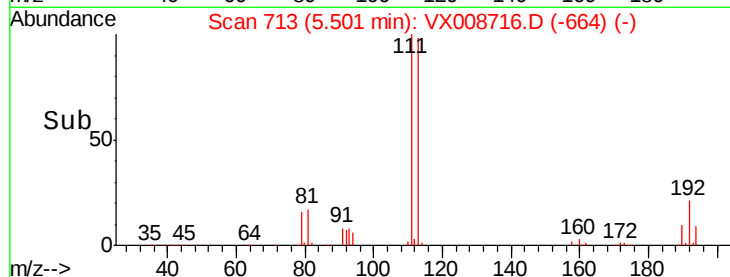
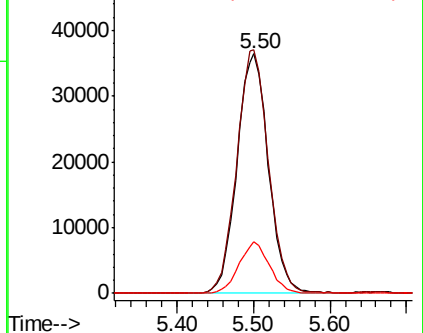
192 20.6 16.1 24.1



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: 4.472 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

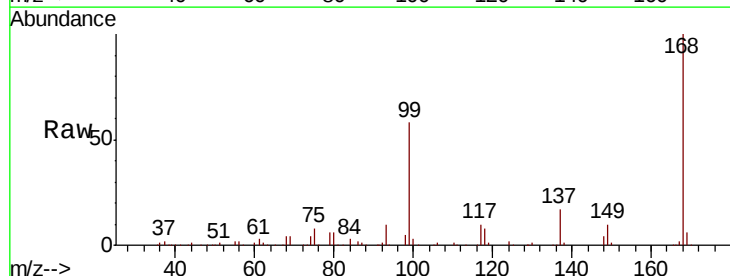
Tgt Ion: 75 Resp: 16888

Ion Ratio Lower Upper

75 100

110 8.5 16.4 49.2#

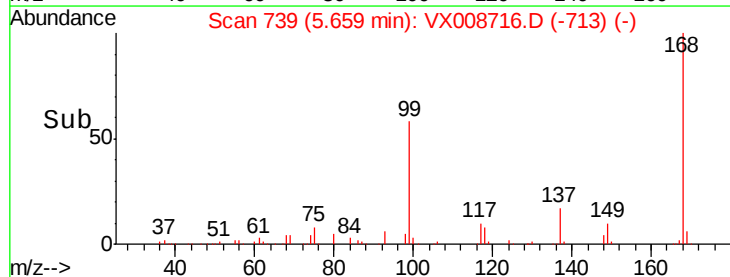
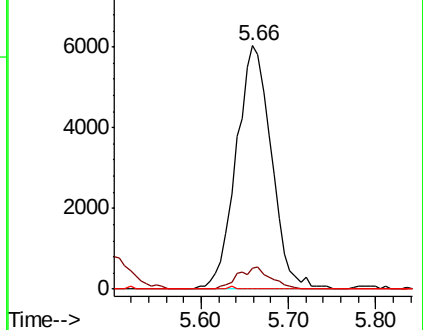
77 0.0 24.7 37.1#

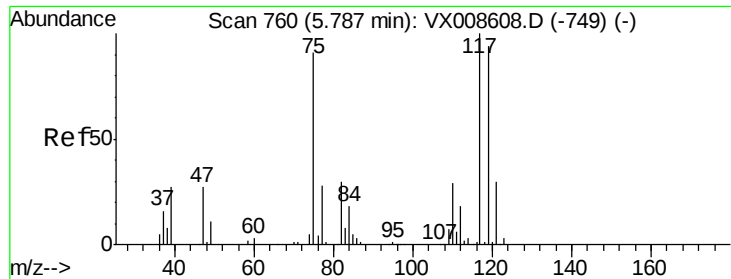


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.293 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

0168-SITE-WATER

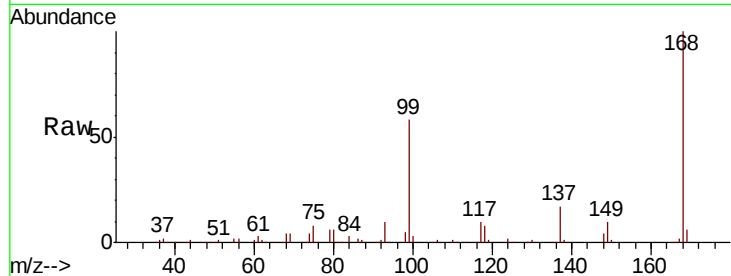
Tot Ion:117 Resp: 19668

Ion Ratio Lower Upper

117 100

119 5.4 75.0 112.6#

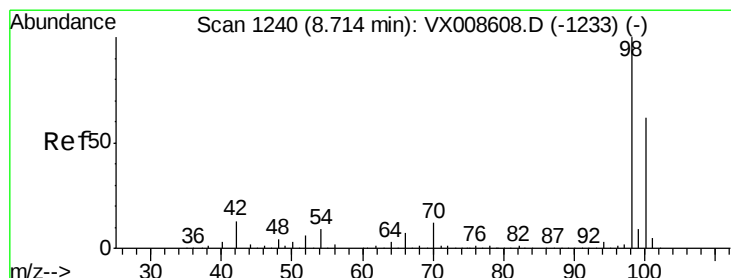
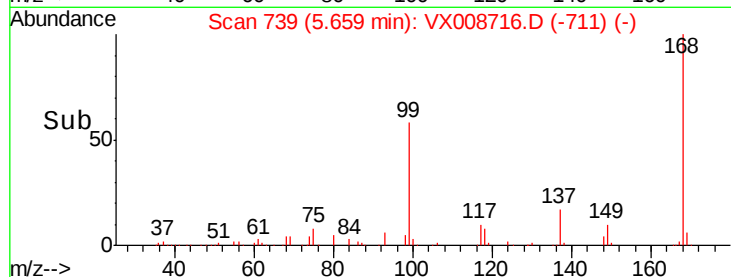
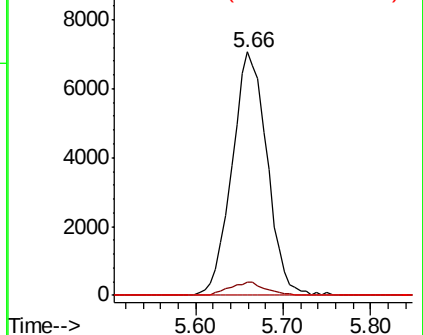
121 0.0 24.3 36.5#



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: 48.980 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008716.D

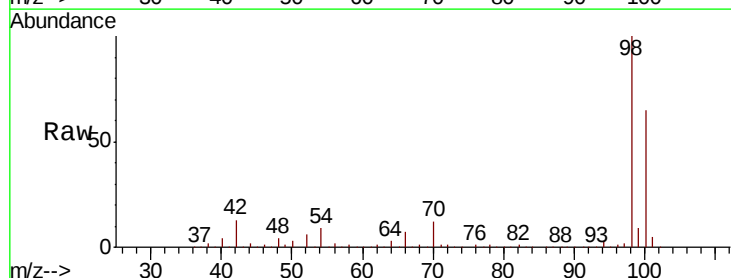
Acq: 06 Apr 2019 13:31

Tgt Ion: 98 Resp: 430758

Ion Ratio Lower Upper

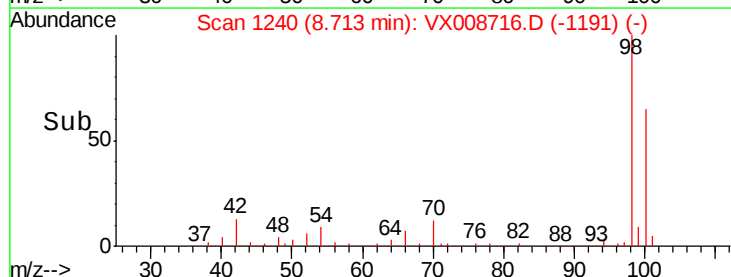
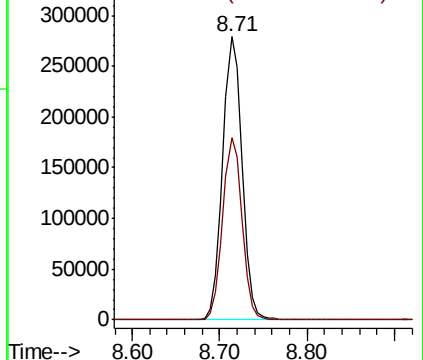
98 100

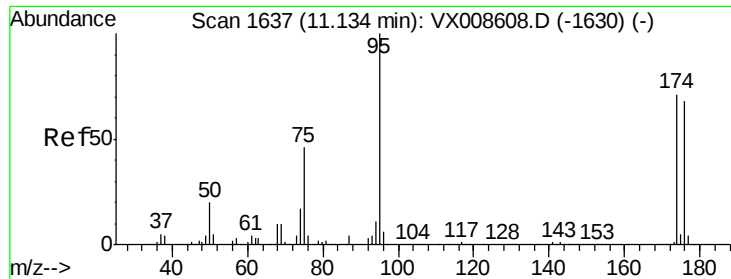
100 64.1 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.828 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

0168-SITE-WATER

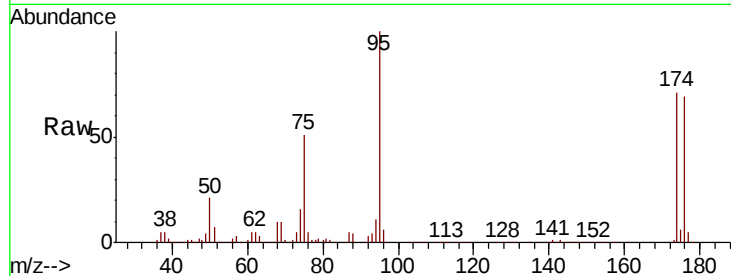
Tot Ion: 95 Resp: 146041

Ion Ratio Lower Upper

95 100

174 77.0 0.0 151.8

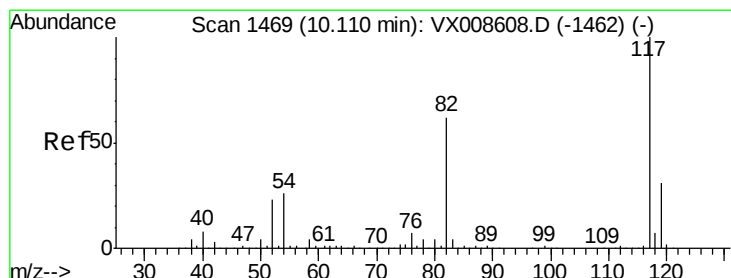
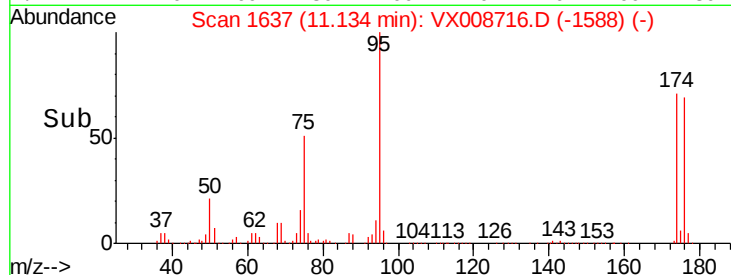
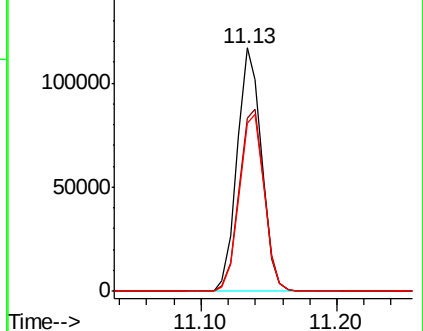
176 74.5 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008608.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008608.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008608.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

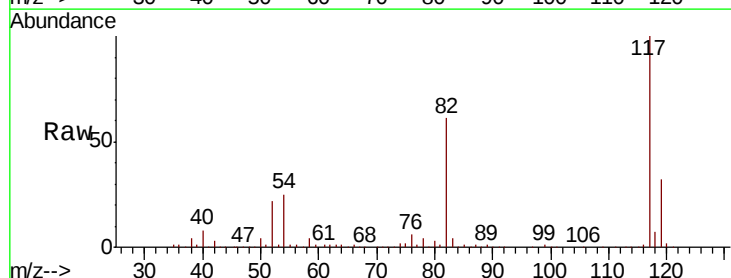
Tgt Ion: 117 Resp: 299669

Ion Ratio Lower Upper

117 100

82 60.7 49.6 74.4

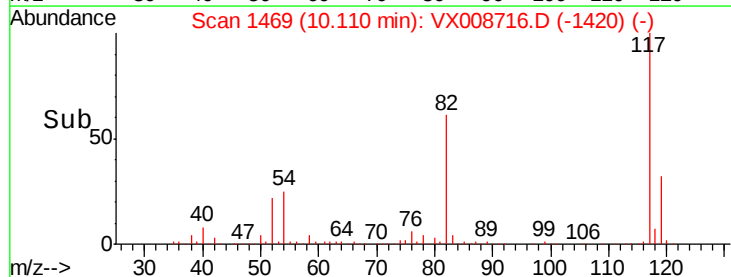
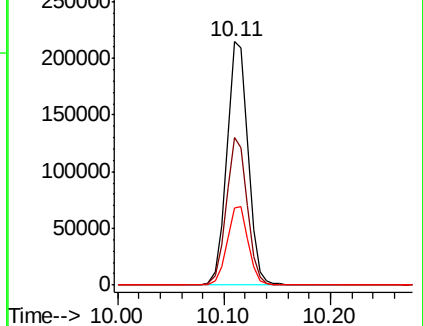
119 31.5 25.0 37.4

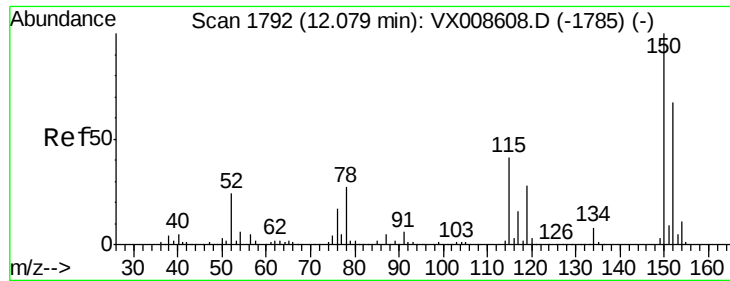


Abundance Ion 116.90 (116.60 to 117.60): VX008608.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008608.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008608.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008716.D

Acq: 06 Apr 2019 13:31

Instrument :

MSVOA_X

ClientSampleId :

0168-SITE-WATER

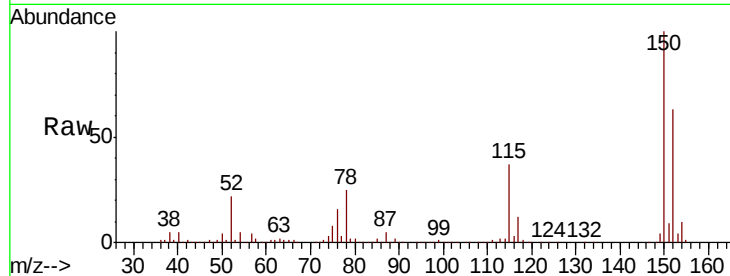
Tot Ion:152 Resp: 126225

Ion Ratio Lower Upper

152 100

115 59.9 43.5 130.5

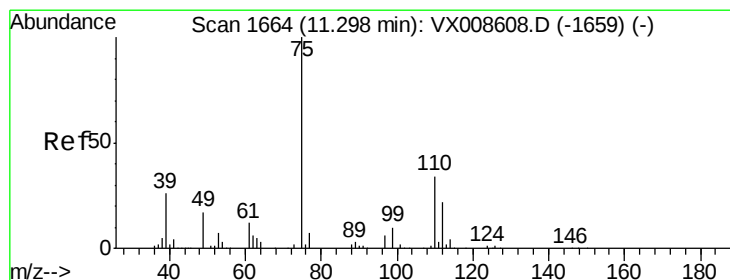
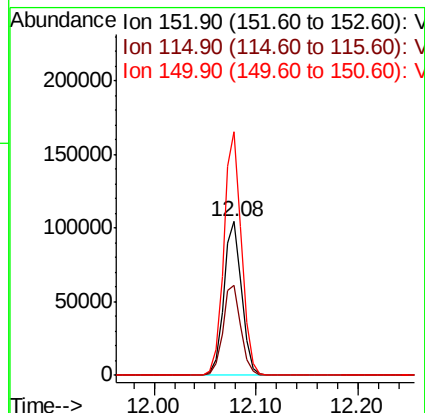
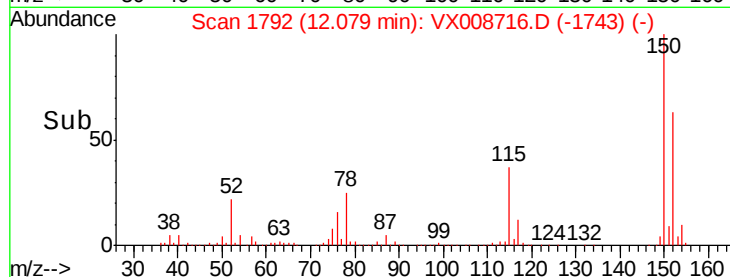
150 157.2 0.0 348.8



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: 21.395 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008716.D

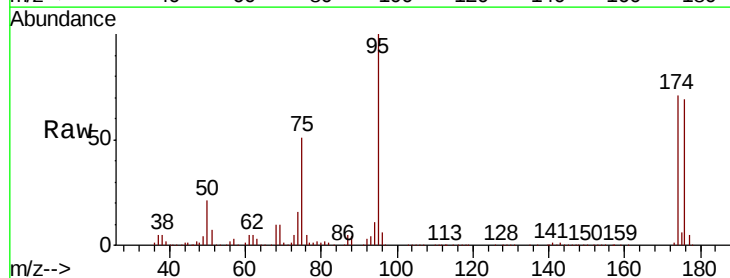
Acq: 06 Apr 2019 13:31

Tgt Ion: 75 Resp: 74187

Ion Ratio Lower Upper

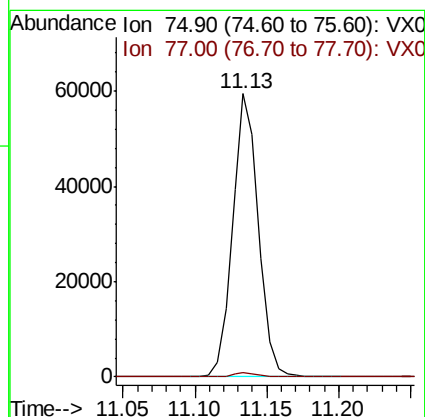
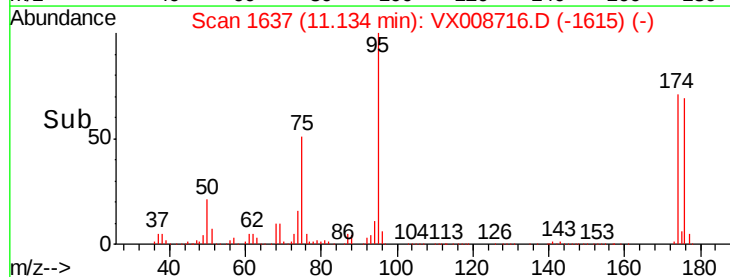
75 100

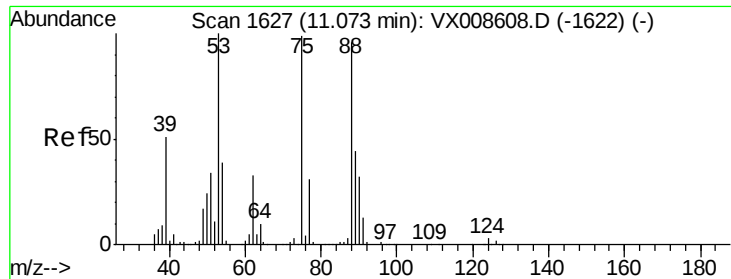
77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.976 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008716.D
 Acq: 06 Apr 2019 13:31

Instrument :
 MSVOA_X
 ClientSampleId :
 0168-SITE-WATER

Tot Ion: 75 Resp: 74187
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#

