

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040919\
 Data File : VX008774.D
 Acq On : 09 Apr 2019 16:35
 Operator : JC/SP
 Sample : K2335-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SV30755L

Quant Time: Apr 10 06:38:08 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	5.67	168	203046	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	338509	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	286779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	120404	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	140271	47.36	ug/l	0.00
Spiked Amount						
			Recovery	=	94.72%	
35) Dibromofluoromethane	5.50	113	102298	47.27	ug/l	0.00
Spiked Amount						
			Recovery	=	94.54%	
50) Toluene-d8	8.71	98	417903	48.49	ug/l	0.00
Spiked Amount						
			Recovery	=	96.98%	
62) 4-Bromofluorobenzene	11.13	95	136413	44.64	ug/l	0.00
Spiked Amount						
			Recovery	=	89.28%	

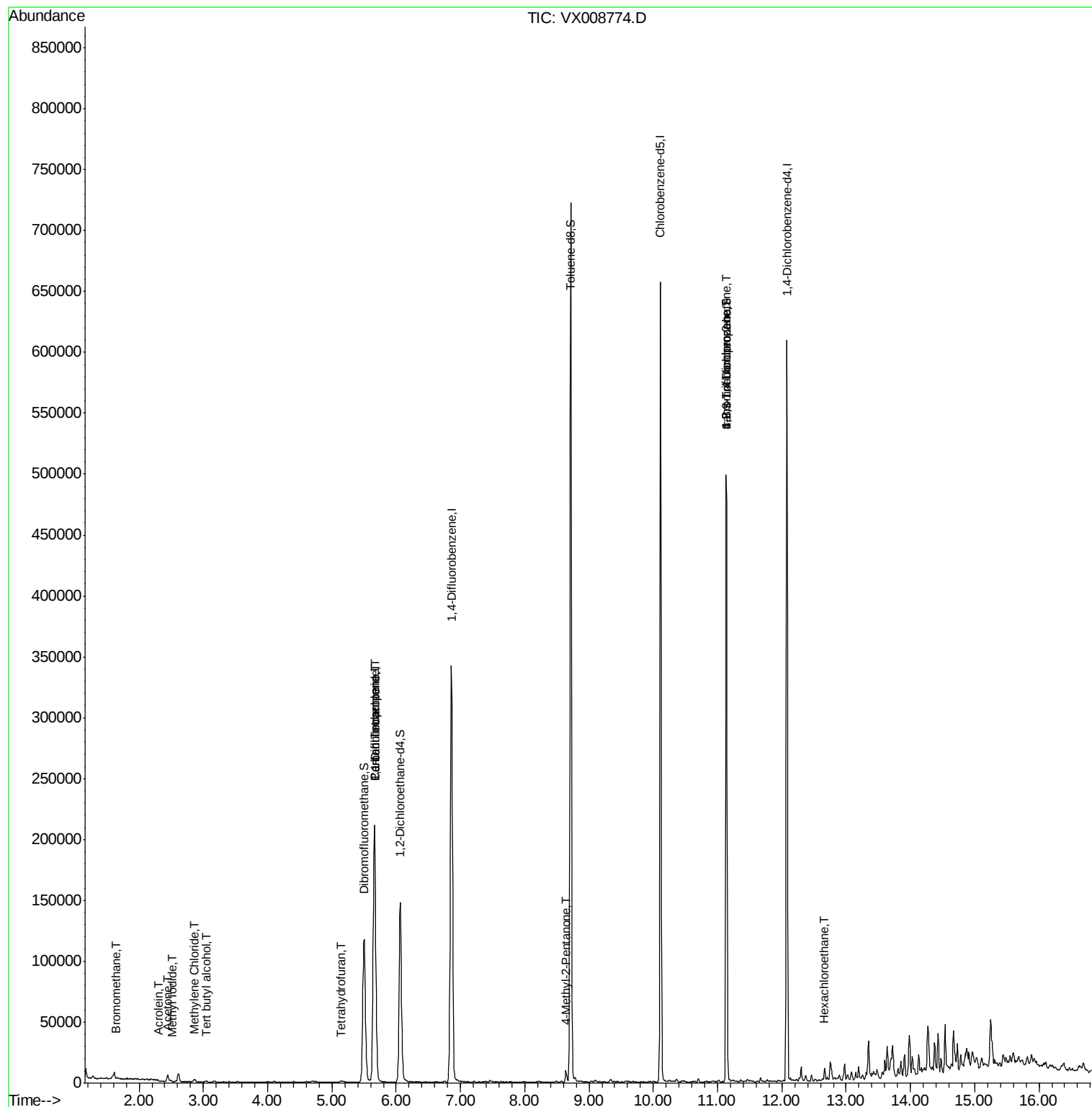
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	329	Below Cal		94
5) Bromomethane	1.64	94	353	2.104 ug/l		96
6) Chloroethane	1.72	64	103	Below Cal	#	43
10) Methyl Iodide	2.52	142	318	4.146 ug/l	#	85
11) Tert butyl alcohol	3.04	59	843	1.216 ug/l		97
13) Acrolein	2.29	56	150	0.436 ug/l	#	13
16) Acetone	2.45	43	6321	3.706 ug/l		99
17) Carbon Disulfide	2.57	76	886	Below Cal	#	94
20) Methylene Chloride	2.85	84	867	0.304 ug/l	#	83
28) Bromochloromethane	5.01	49	64	Below Cal	#	22
29) Tetrahydrofuran	5.14	42	911	0.509 ug/l	#	70
36) 1,1-Dichloropropene	5.66	75	16600	4.486 ug/l	#	51
38) Carbon Tetrachloride	5.66	117	19292	6.299 ug/l	#	18
51) 4-Methyl-2-Pentanone	8.64	43	6311	1.267 ug/l		97
76) 1,2,3-Trichloropropane	11.13	75	69055	20.878 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.13	75	69055	57.550 ug/l	#	9
90) Hexachloroethane	12.67	117	449	0.315 ug/l	#	9

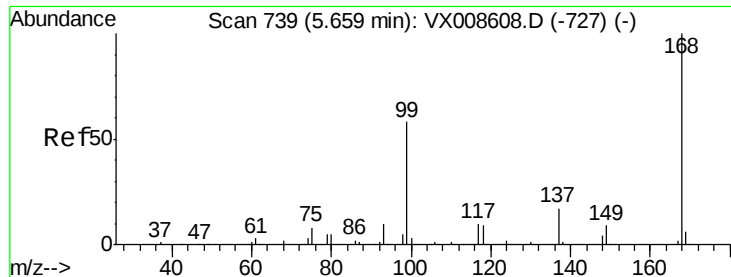
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

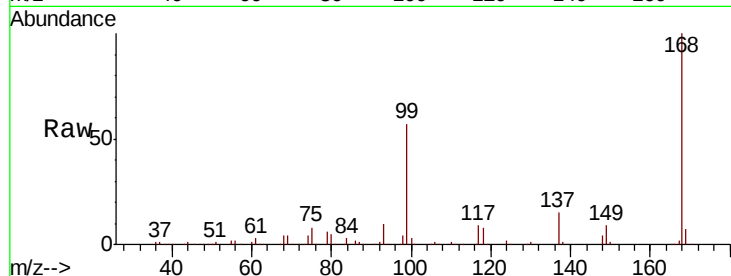
SV30755L

Tot Ion:168 Resp: 203046

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

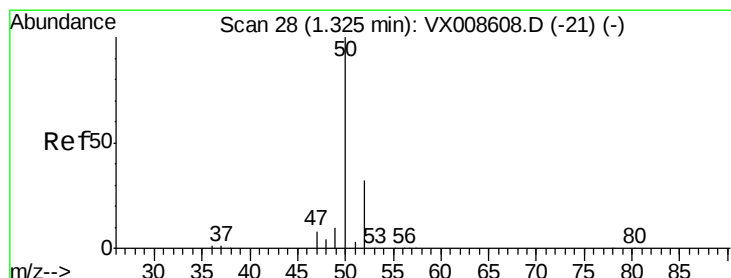
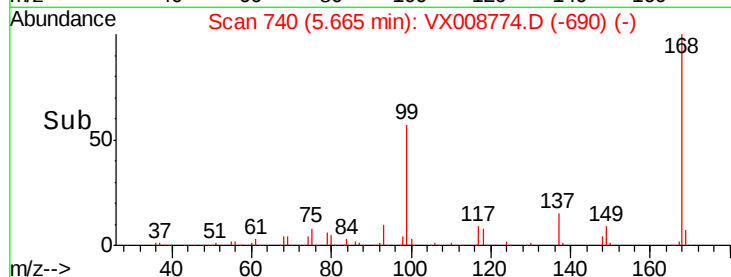
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008774.D

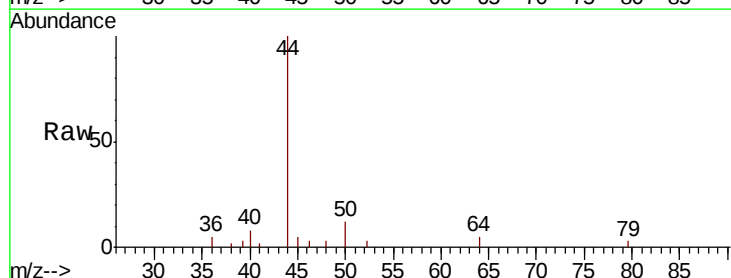
Acq: 09 Apr 2019 16:35

Tgt Ion: 50 Resp: 329

Ion Ratio Lower Upper

50 100

52 28.7 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

150

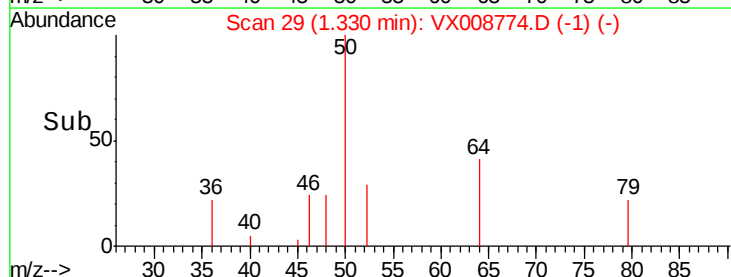
100

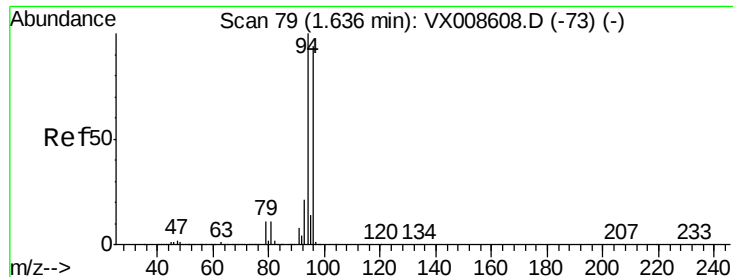
50

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 2.104 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

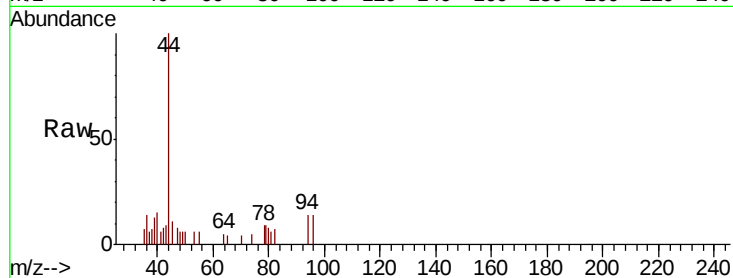
SV30755L

Tot Ion: 94 Resp: 353

Ion Ratio Lower Upper

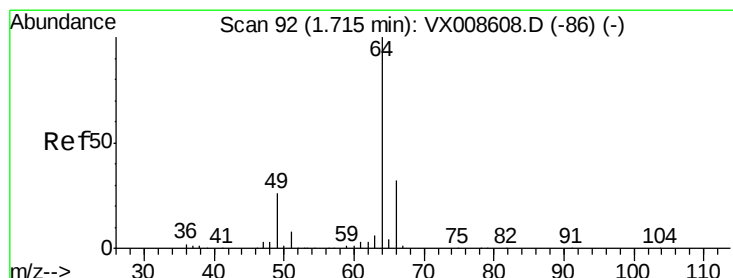
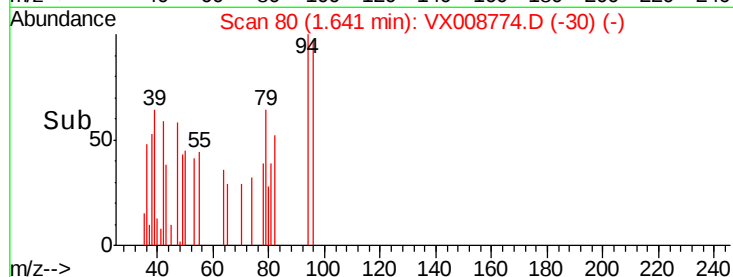
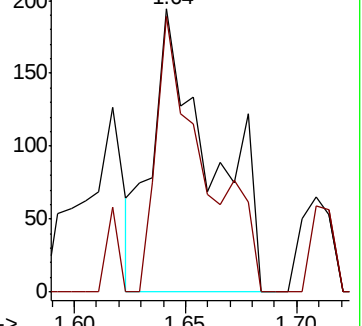
94 100

96 97.4 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: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008774.D

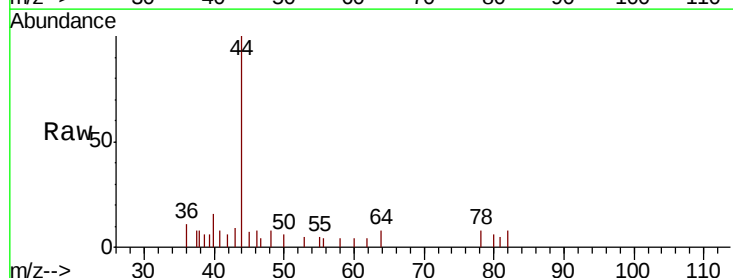
Acq: 09 Apr 2019 16:35

Tgt Ion: 64 Resp: 103

Ion Ratio Lower Upper

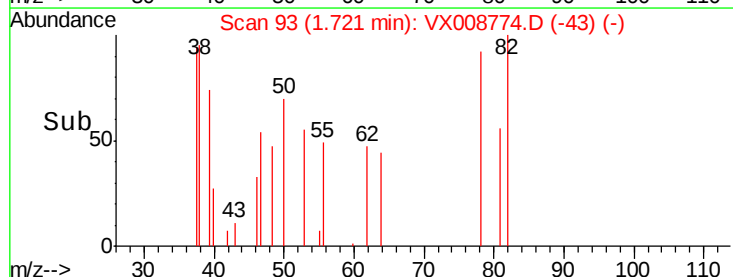
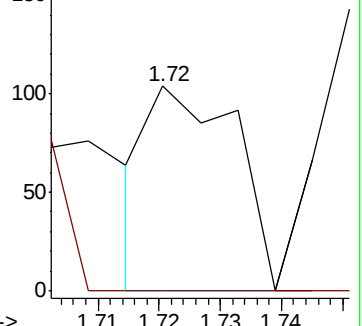
64 100

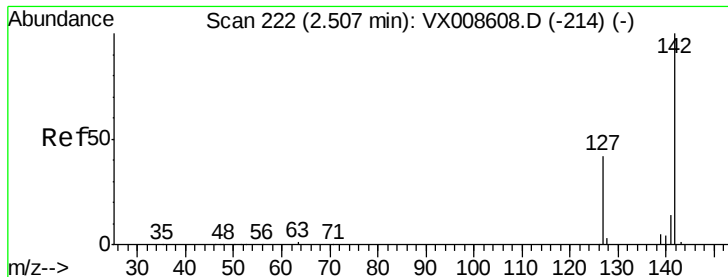
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

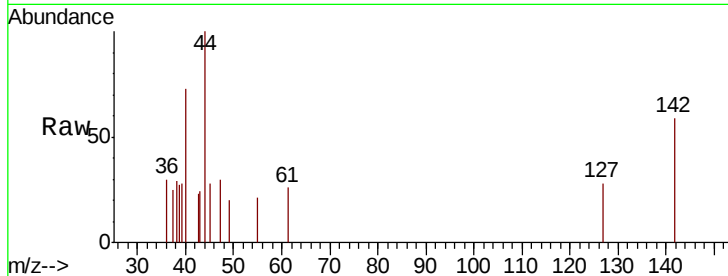




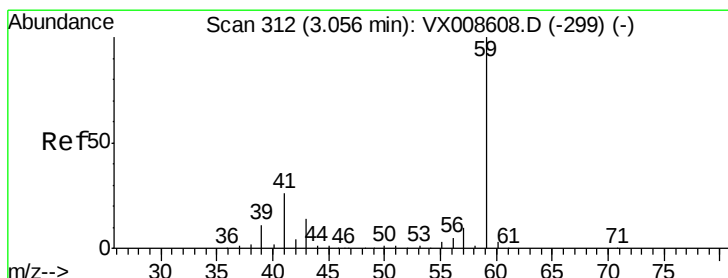
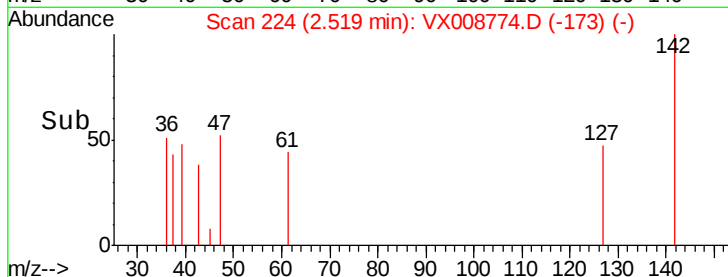
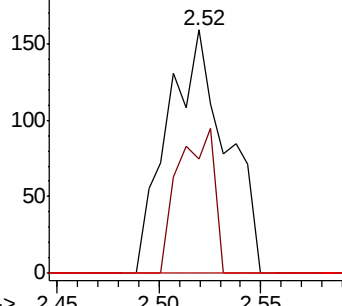
#10
Methvl Iodide
Concen: 4.146 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008774.D
Acq: 09 Apr 2019 16:35

Instrument :
MSVOA_X
ClientSampleId :
SV30755L

Tot Ion:142 Resp: 318
Ion Ratio Lower Upper
142 100
127 36.5 33.0 49.6
141 0.0 11.4 17.2#

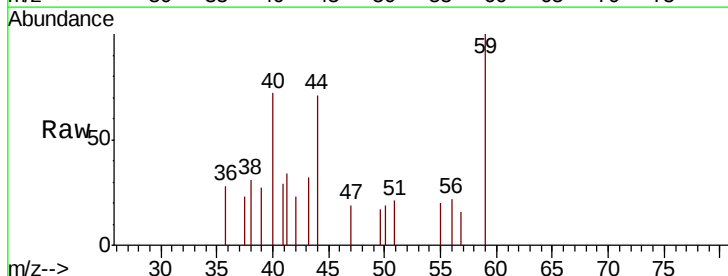


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

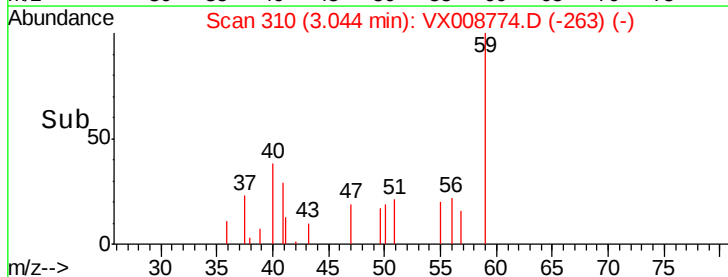
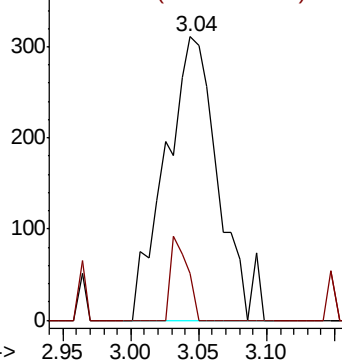


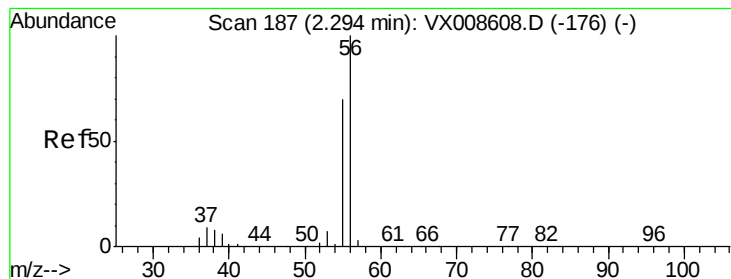
#11
Tert butyl alcohol
Concen: 1.216 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX008774.D
Acq: 09 Apr 2019 16:35

Tgt Ion: 59 Resp: 843
Ion Ratio Lower Upper
59 100
57 9.4 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: 0.436 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

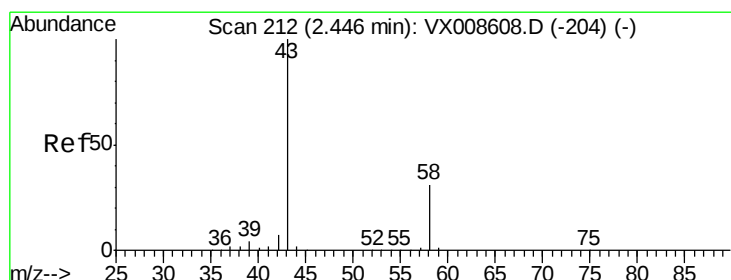
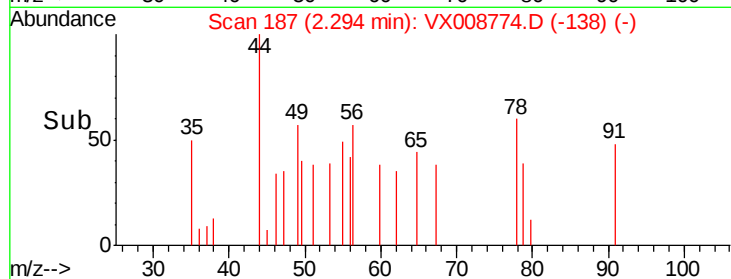
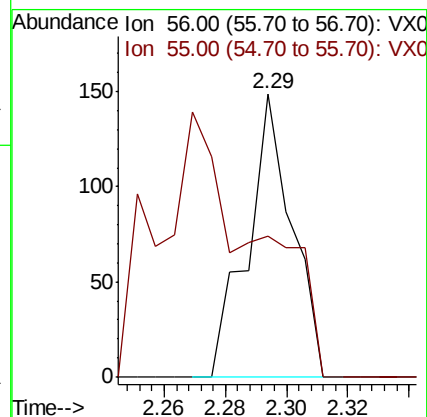
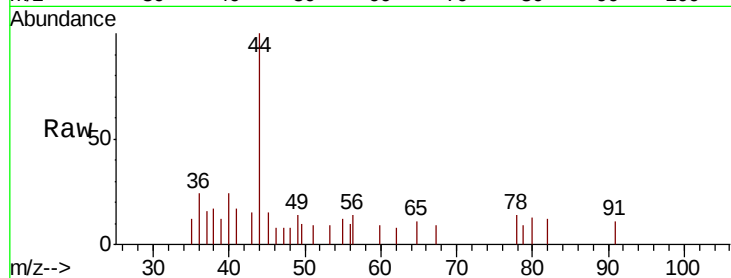
SV30755L

Tot Ion: 56 Resp: 150

Ion Ratio Lower Upper

56 100

55 0.0 58.0 87.0#



#16

Acetone

Concen: 3.706 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008774.D

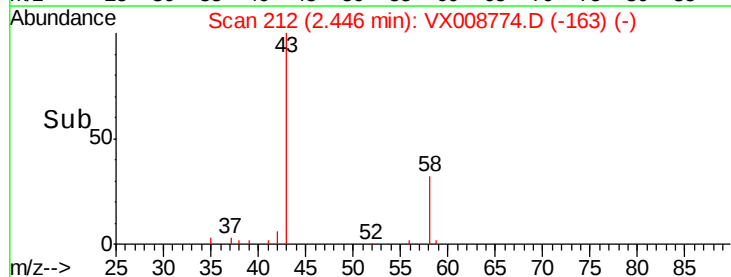
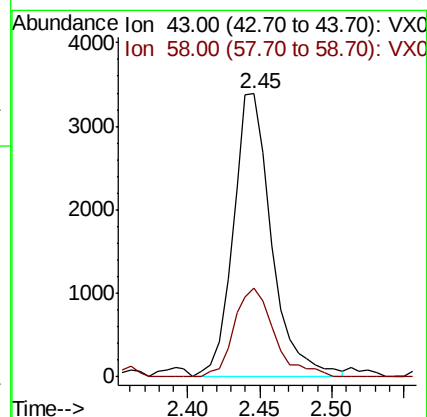
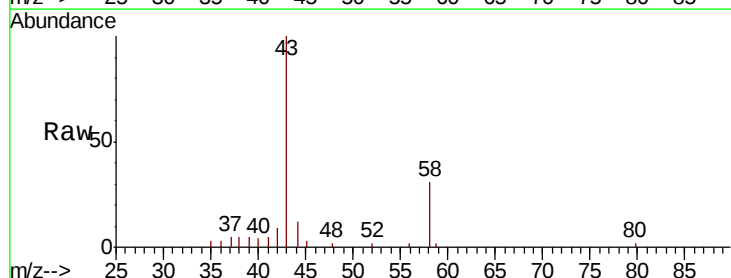
Acq: 09 Apr 2019 16:35

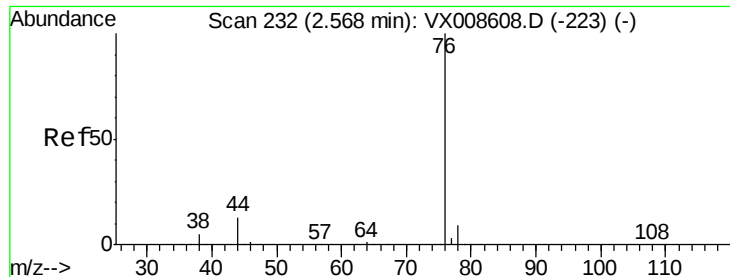
Tgt Ion: 43 Resp: 6321

Ion Ratio Lower Upper

43 100

58 31.5 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampled :

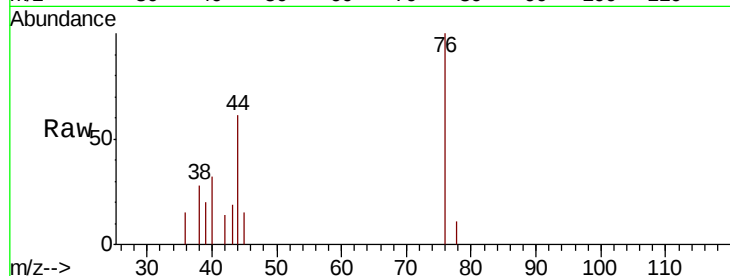
SV30755L

Tot Ion: 76 Resp: 886

Ion Ratio Lower Upper

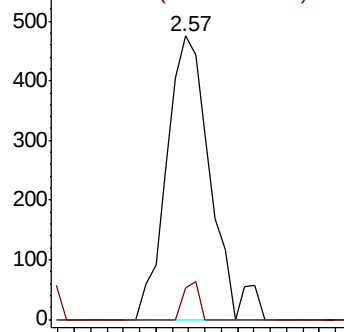
76 100

78 11.2 7.1 10.7#

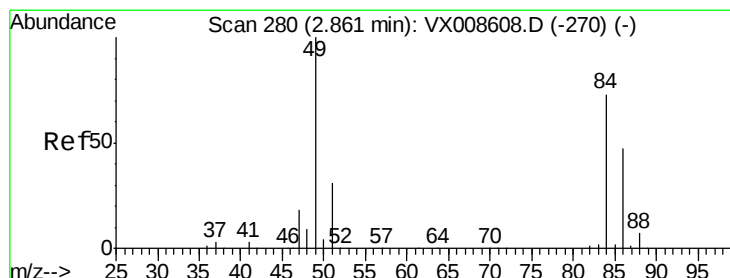
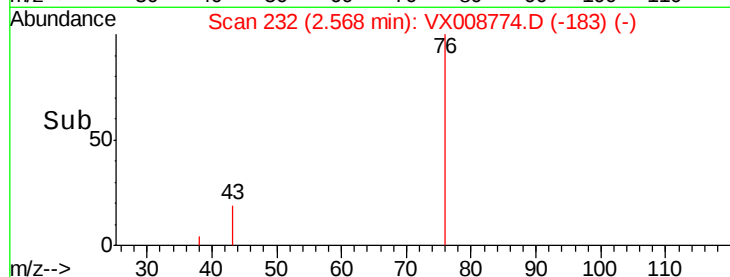


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#20

Methylene Chloride

Concen: 0.304 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Tgt Ion: 84 Resp: 867

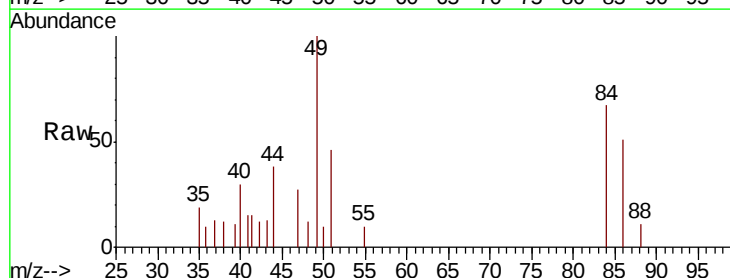
Ion Ratio Lower Upper

84 100

49 149.4 109.7 164.5

51 68.5 33.6 50.4#

86 75.5 51.4 77.2

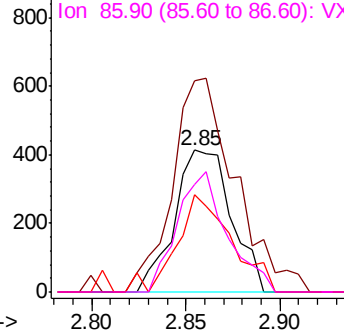


Abundance Ion 83.90 (83.60 to 84.60): VX0

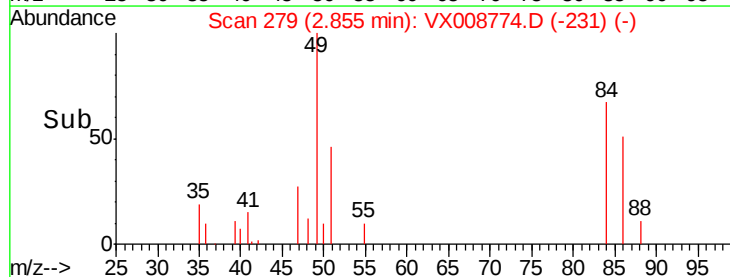
Ion 48.90 (48.60 to 49.60): VX0

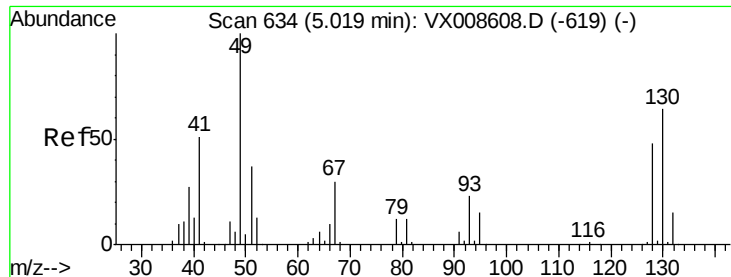
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampled :

SV30755L

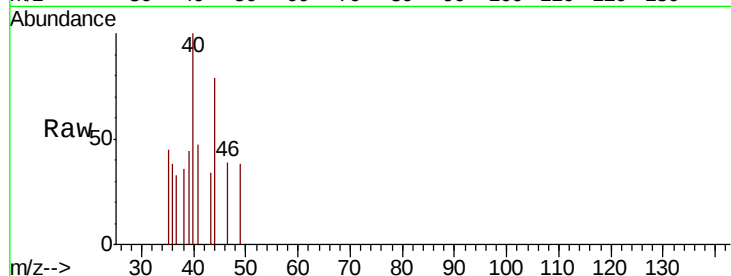
Tot Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

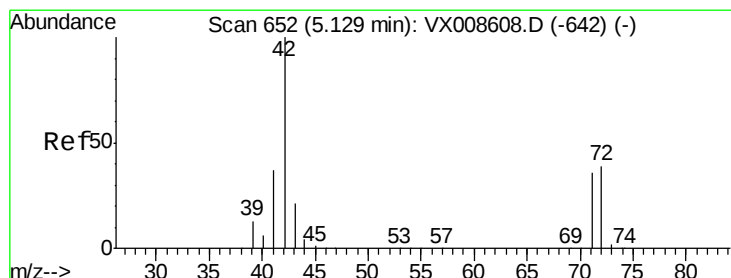
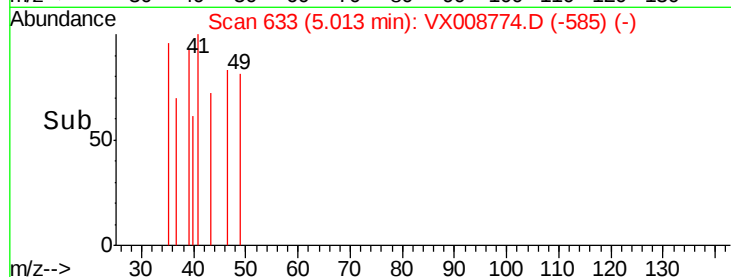
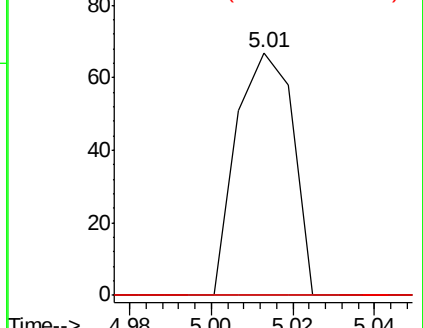
130 0.0 49.3 73.9#



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: 0.509 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

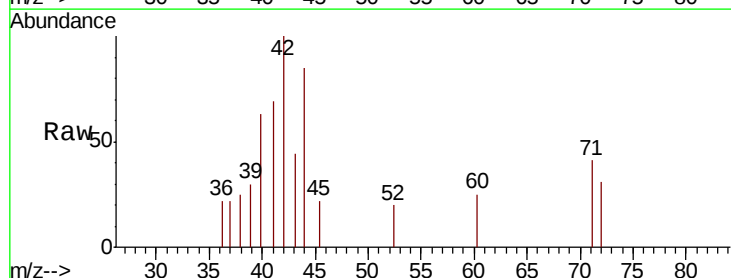
Tgt Ion: 42 Resp: 911

Ion Ratio Lower Upper

42 100

72 13.1 30.5 45.7#

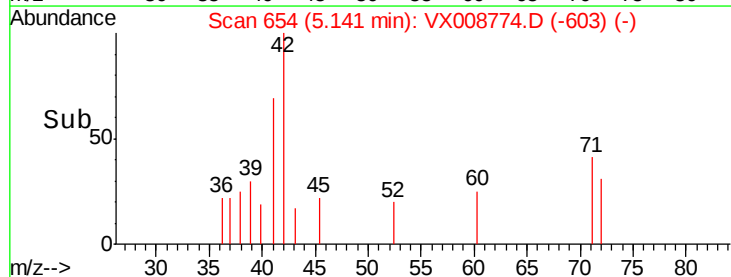
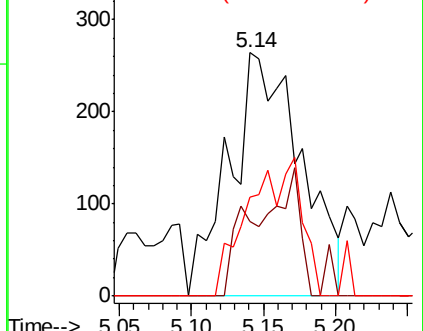
71 25.6 28.6 43.0#

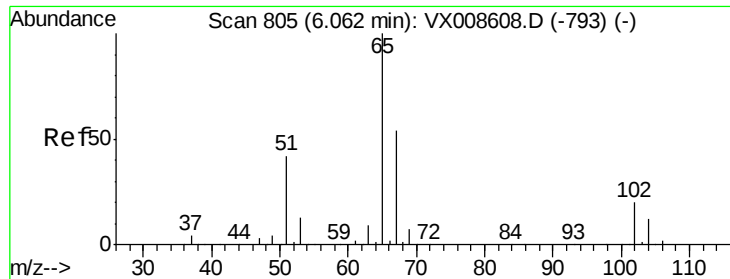


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.364 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

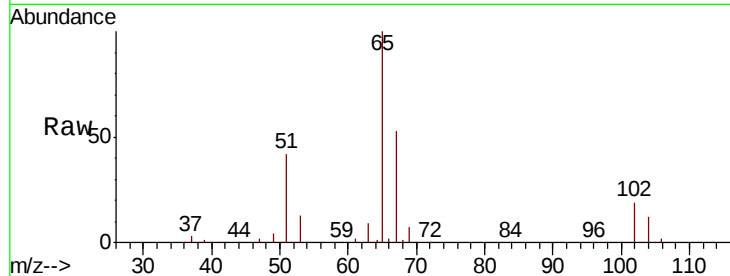
SV30755L

Tot Ion: 65 Resp: 140271

Ion Ratio Lower Upper

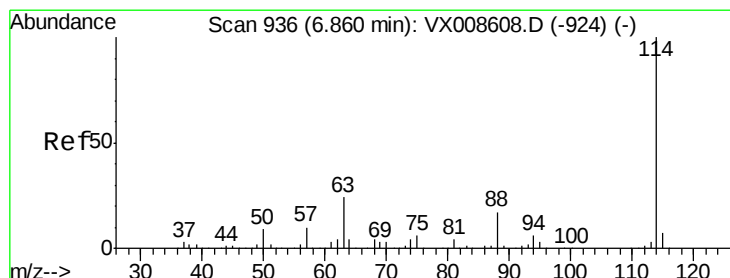
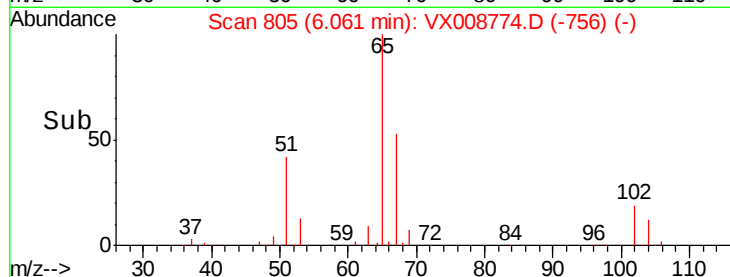
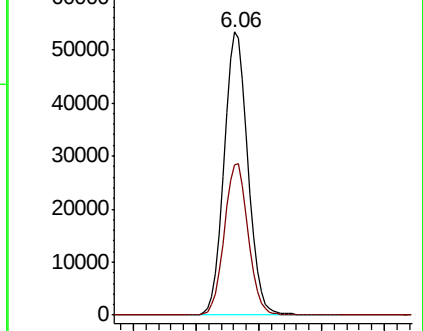
65 100

67 53.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

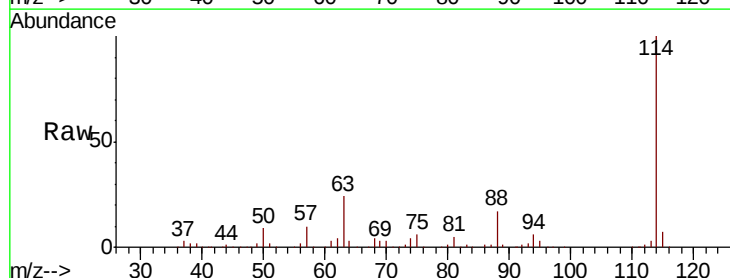
Tgt Ion: 114 Resp: 338509

Ion Ratio Lower Upper

114 100

63 23.5 0.0 47.2

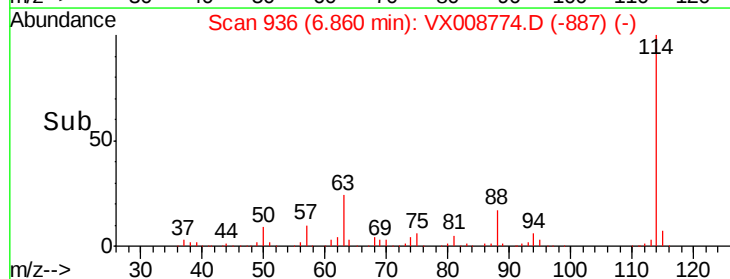
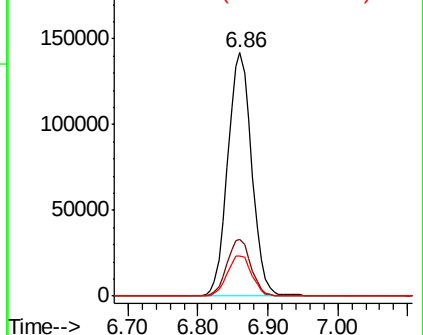
88 16.6 0.0 34.0

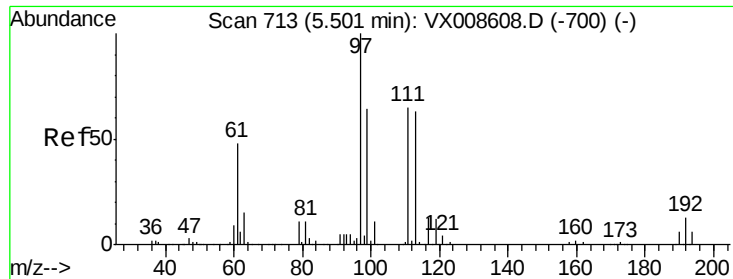


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

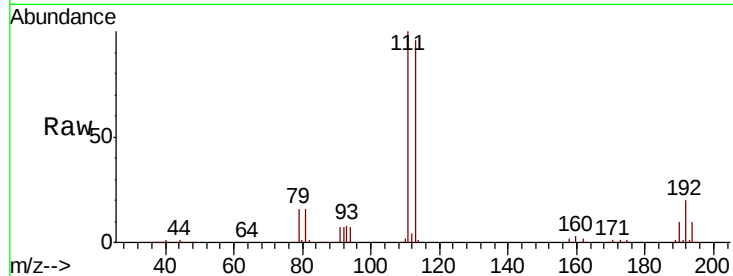




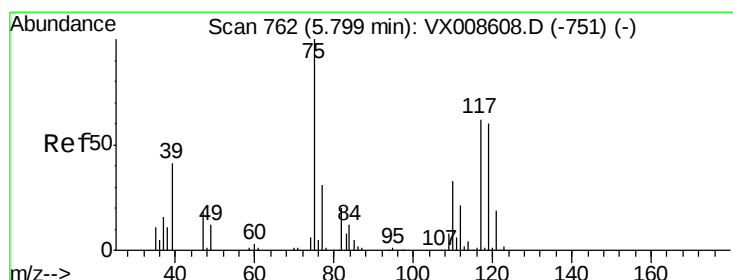
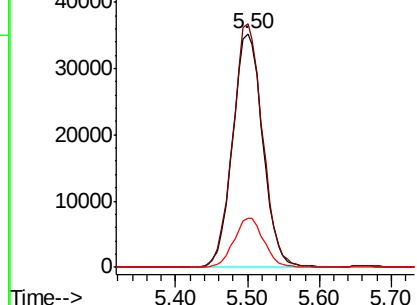
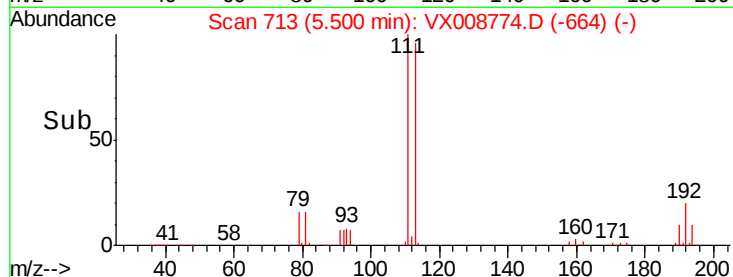
#35
 Dibromofluoromethane
 Concen: 47.266 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008774.D
 Acq: 09 Apr 2019 16:35

Instrument :
 MSVOA_X
 ClientSampleId :
 SV30755L

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.4	125.2
192	20.9	16.1	24.1

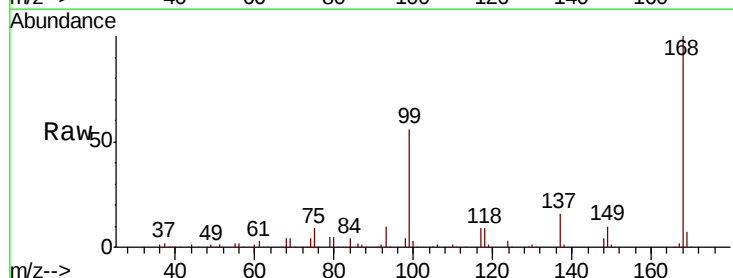


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

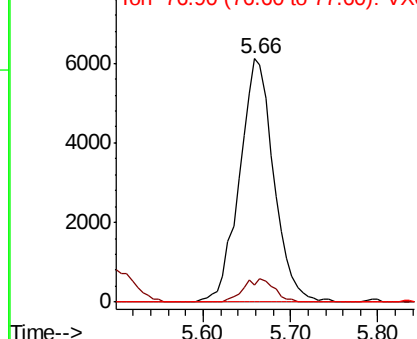
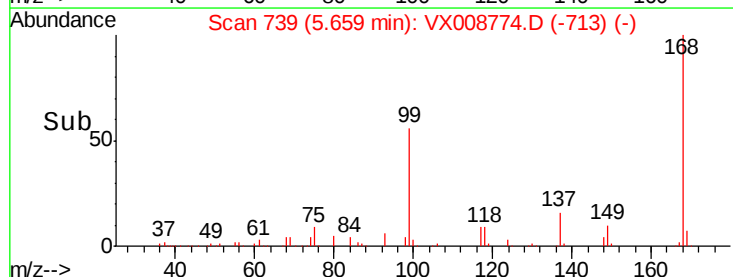


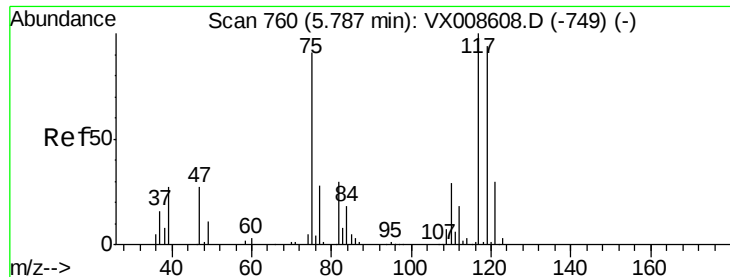
#36
 1,1-Dichloropropene
 Concen: 4.486 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008774.D
 Acq: 09 Apr 2019 16:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	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: 6.299 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SV30755L

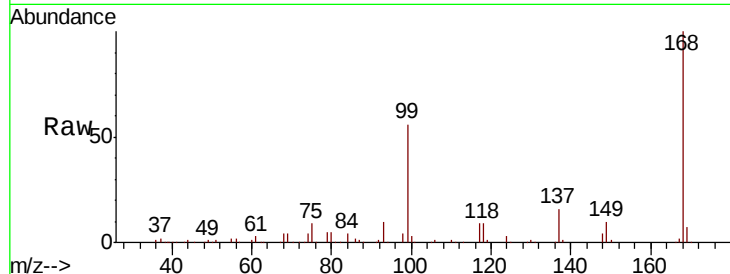
Tot Ion:117 Resp: 19292

Ion Ratio Lower Upper

117 100

119 6.6 75.0 112.6#

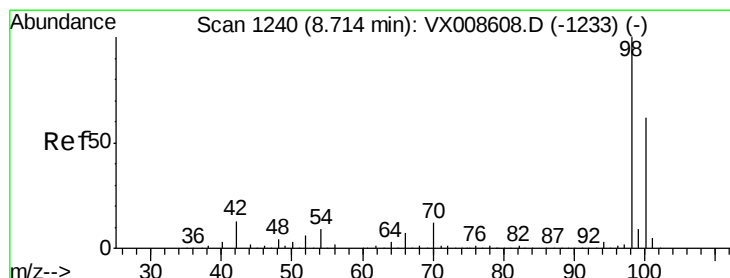
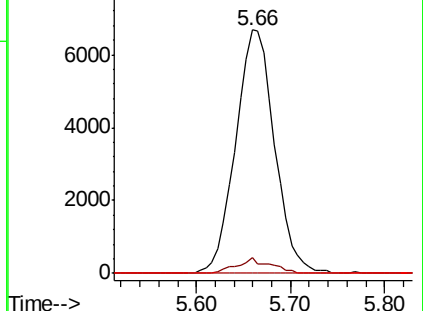
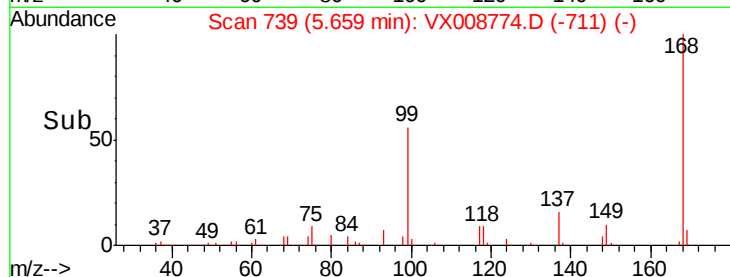
121 0.0 24.3 36.5#



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: 48.494 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008774.D

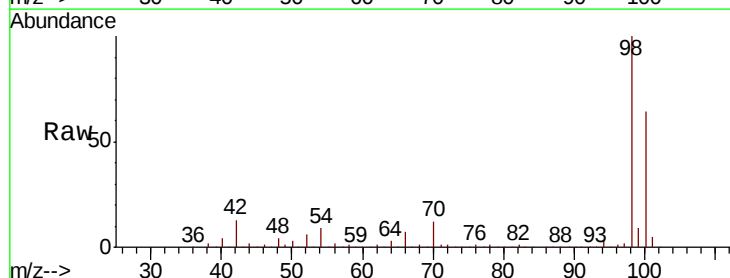
Acq: 09 Apr 2019 16:35

Tgt Ion: 98 Resp: 417903

Ion Ratio Lower Upper

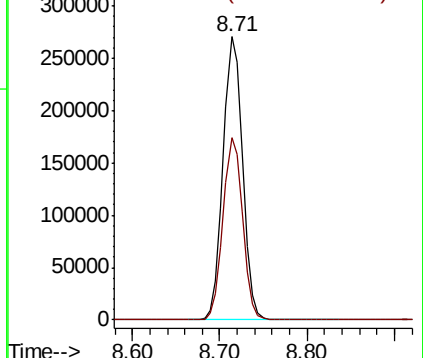
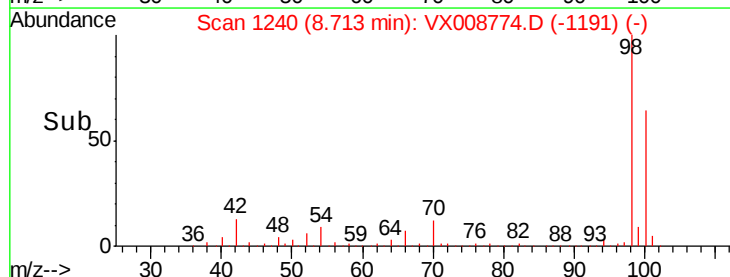
98 100

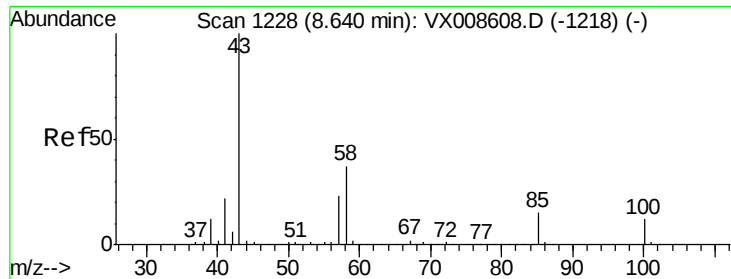
100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.267 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

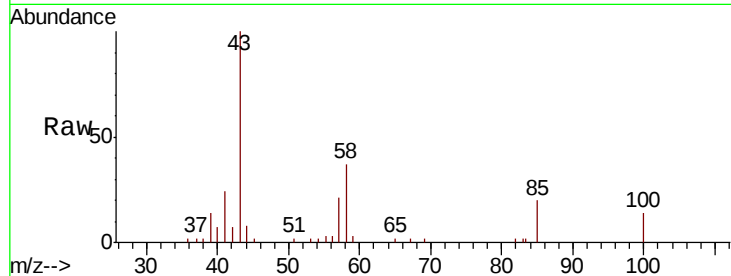
SV30755L

Tot Ion: 43 Resp: 6311

Ion Ratio Lower Upper

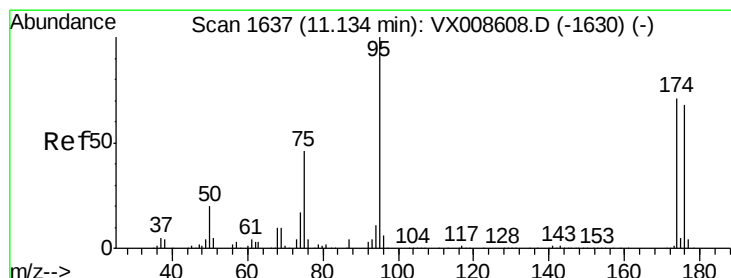
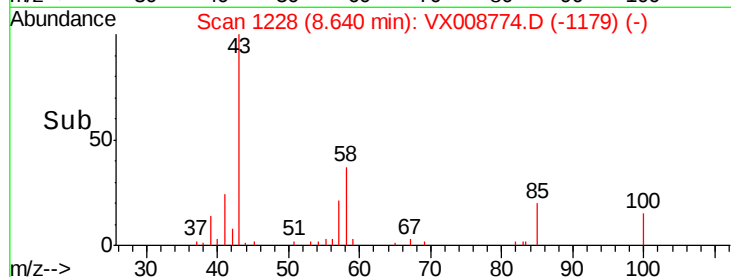
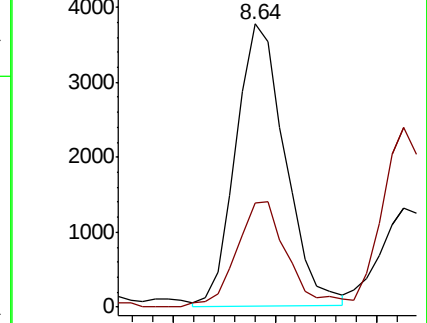
43 100

58 38.7 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: 44.638 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

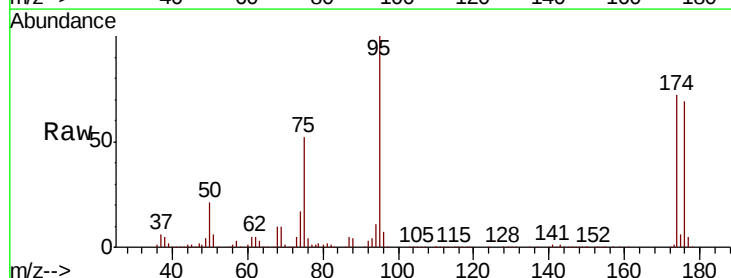
Tgt Ion: 95 Resp: 136413

Ion Ratio Lower Upper

95 100

174 77.4 0.0 151.8

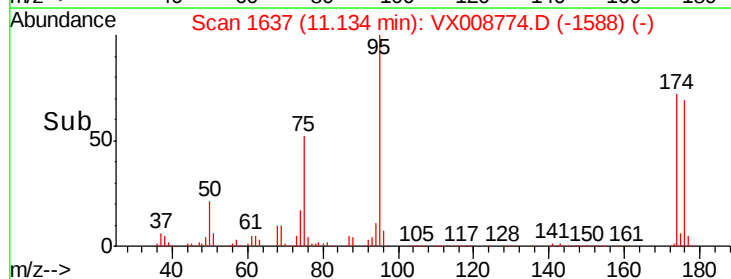
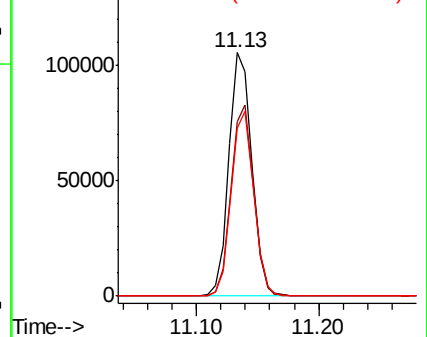
176 74.9 0.0 145.8

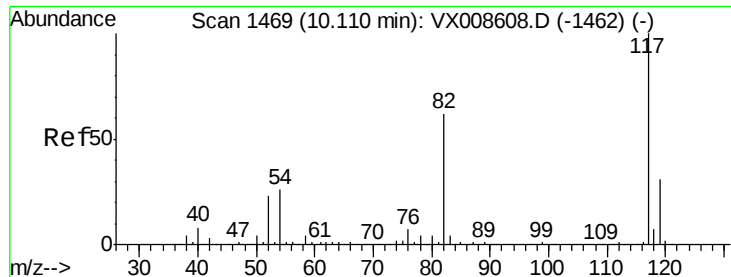


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

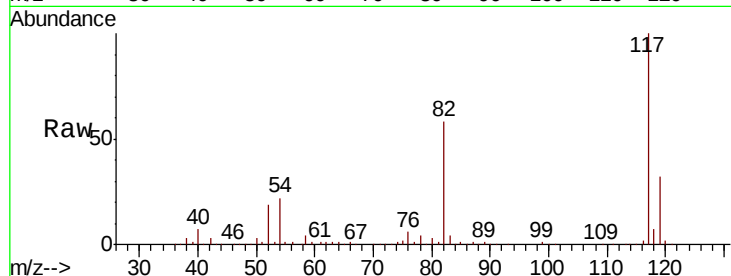




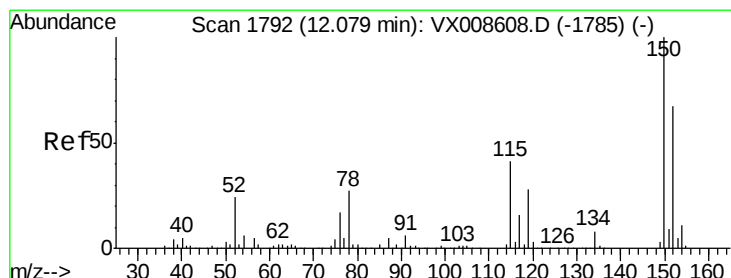
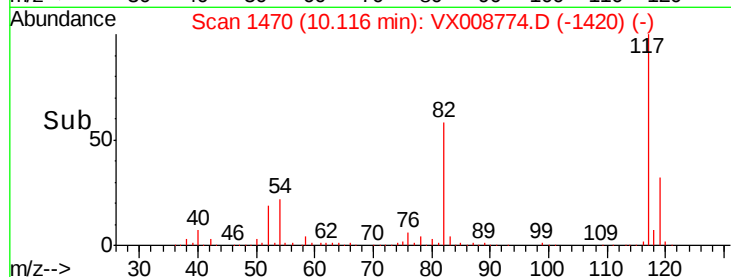
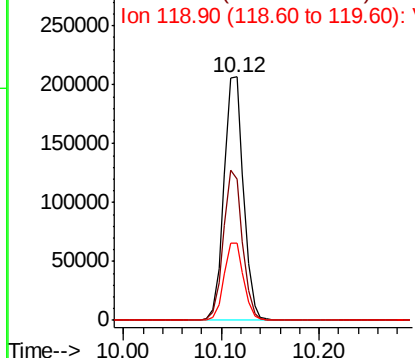
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008774.D
Acq: 09 Apr 2019 16:35

Instrument :
MSVOA_X
ClientSampleId :
SV30755L

Tot Ion:117 Resp: 286779
Ion Ratio Lower Upper
117 100
82 57.8 49.6 74.4
119 31.9 25.0 37.4

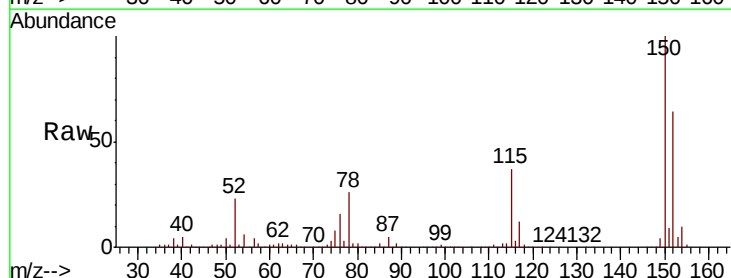


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

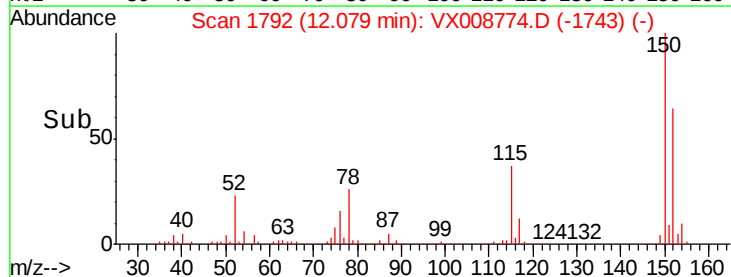
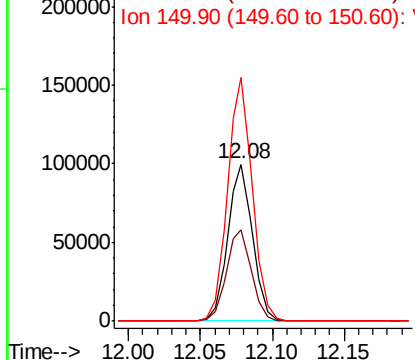


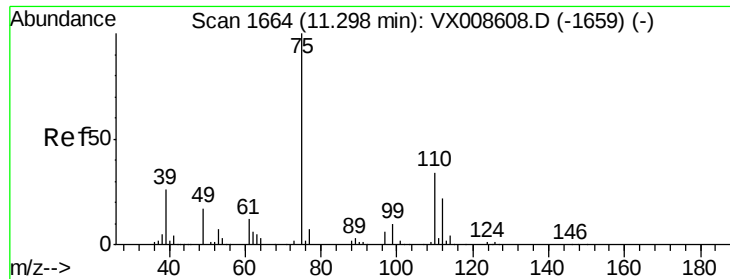
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008774.D
Acq: 09 Apr 2019 16:35

Tgt Ion:152 Resp: 120404
Ion Ratio Lower Upper
152 100
115 59.1 43.5 130.5
150 155.5 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: 20.878 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

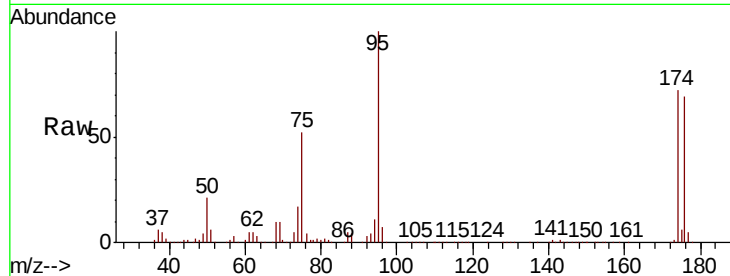
SV30755L

Tot Ion: 75 Resp: 69055

Ion Ratio Lower Upper

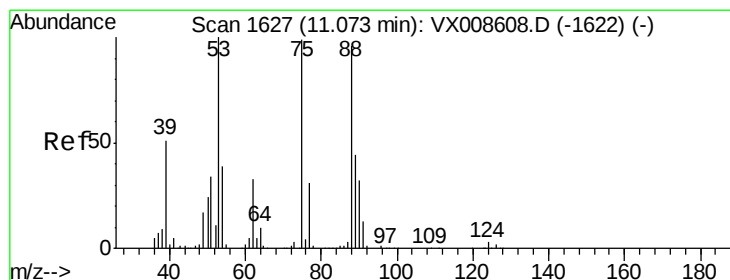
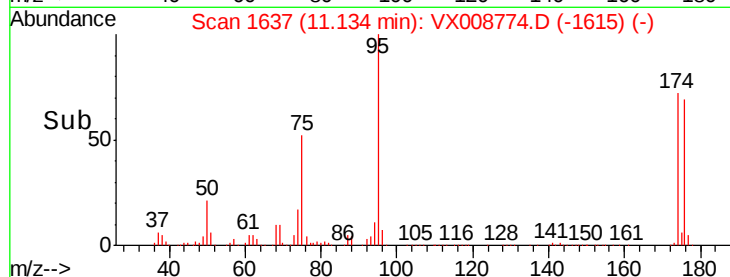
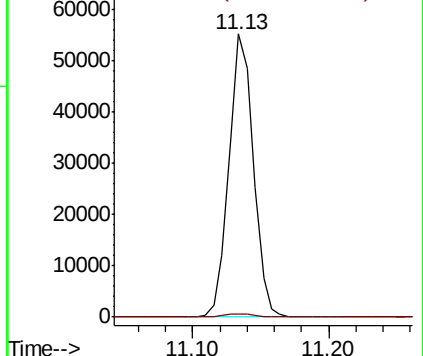
75 100

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: 57.550 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

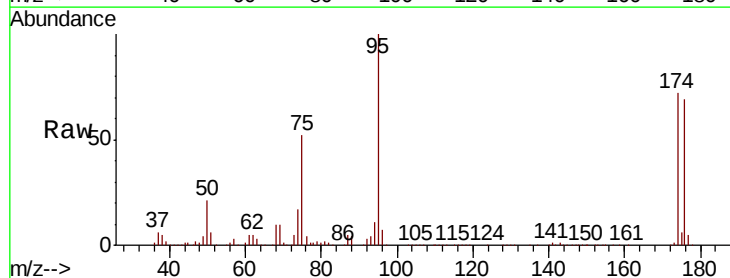
Tgt Ion: 75 Resp: 69055

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

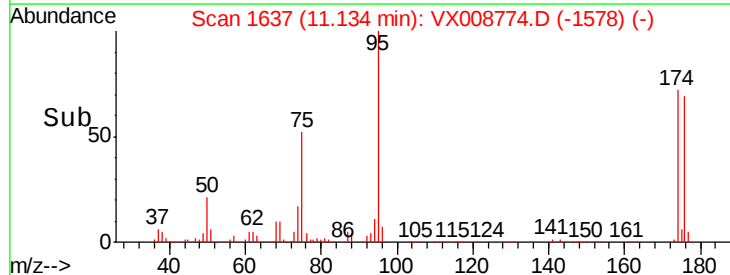
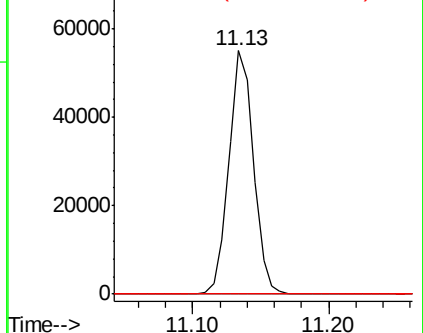
89 0.0 35.6 53.4#

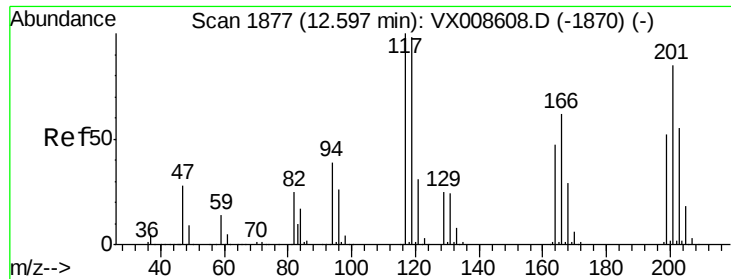


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 0.315 ug/l

RT: 12.67 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX008774.D

Acq: 09 Apr 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SV30755L

Tot Ion:117 Resp: 449

Ion Ratio Lower Upper

117 100

201 0.0 40.6 122.0#

