

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004589.D
 Acq On : 15 Sep 2018 17:20
 Operator : JC/MD
 Sample : J4922-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LIP-16

Quant Time: Sep 17 08:38:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	220165	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	315075	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	299747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166585	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	138732	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
35) Dibromofluoromethane	5.51	113	135174	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
50) Toluene-d8	8.72	98	443060	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	
62) 4-Bromofluorobenzene	11.14	95	156229	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	

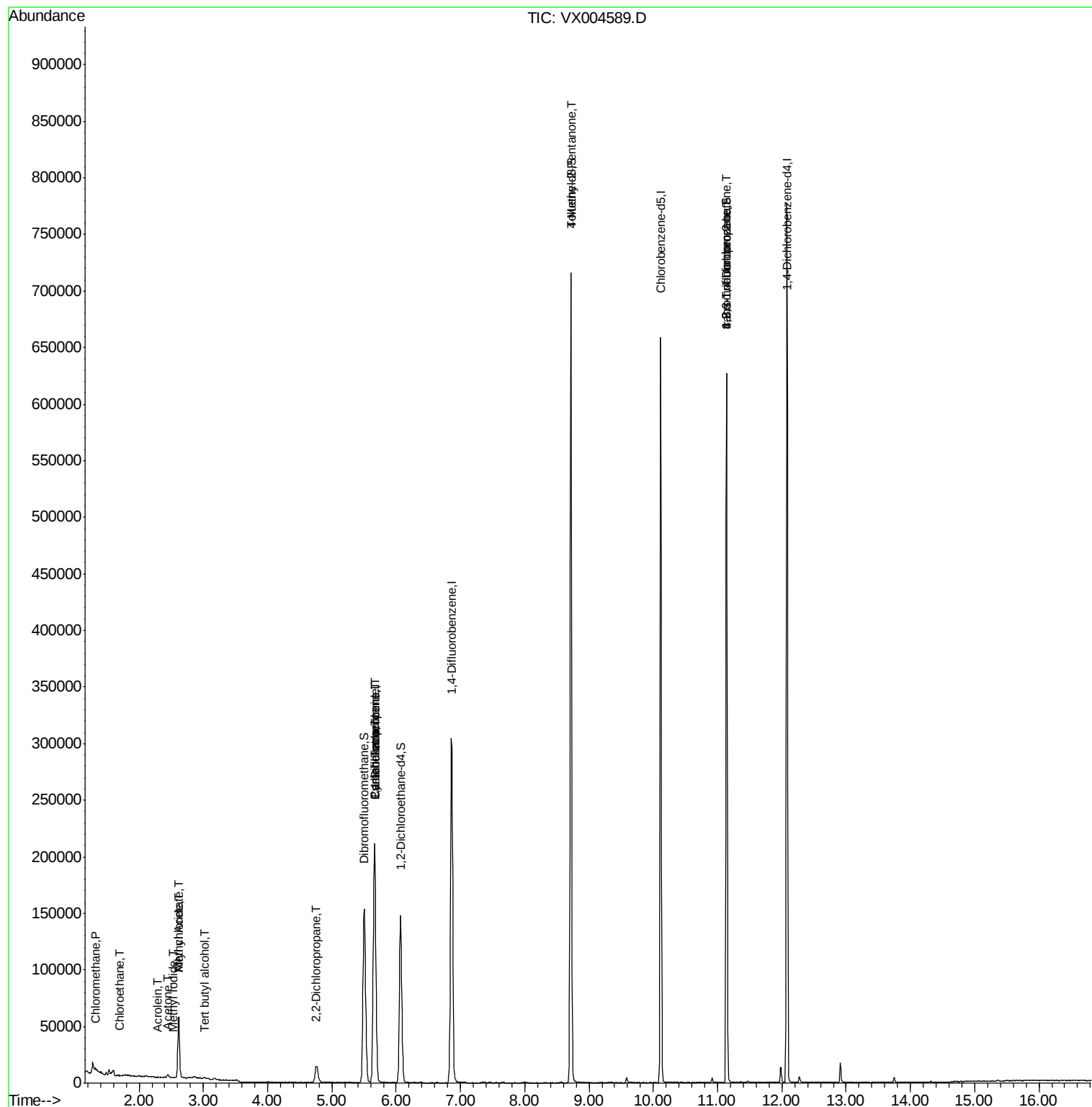
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	768	0.27	ug/l	99
5) Bromomethane	1.65	94	404	Below Cal		83
6) Chloroethane	1.70	64	2154	1.14	ug/l #	69
10) Methyl Iodide	2.52	142	274	4.34	ug/l #	52
11) Tert butyl alcohol	3.02	59	1322	1.95	ug/l #	72
13) Acrolein	2.29	56	151	0.56	ug/l #	69
14) Allyl chloride	2.62	41	5166	1.09	ug/l #	62
16) Acetone	2.44	43	2580	1.86	ug/l	90
18) Methyl Acetate	2.62	43	13970	3.59	ug/l #	51
26) 2,2-Dichloropropane	4.76	77	1312	0.40	ug/l #	52
31) Cyclohexane	5.66	56	3607	0.88	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14191	3.71	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18889	5.06	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1848	0.45	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	73590	21.96	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	73590	69.99	ug/l #	10

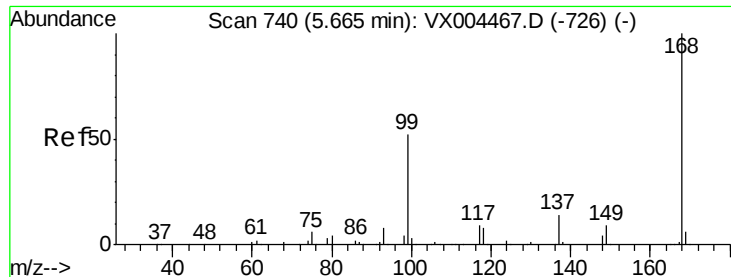
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampled :

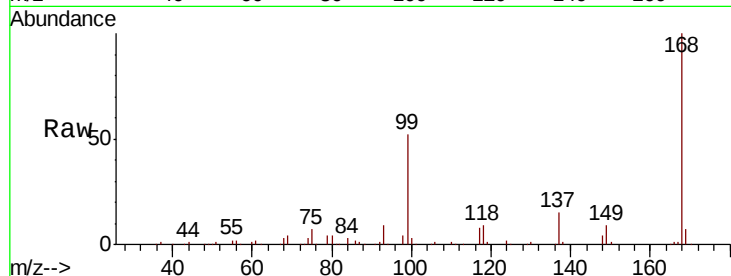
LIP-16

Tot Ion:168 Resp: 220165

Ion Ratio Lower Upper

168 100

99 51.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

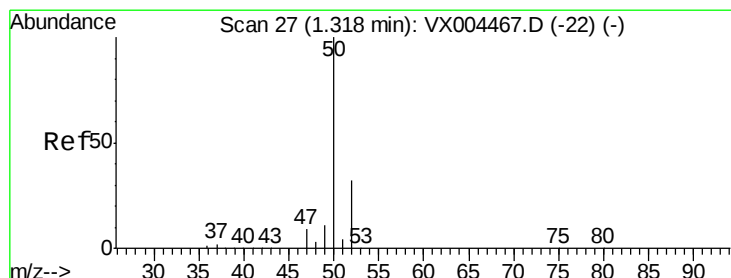
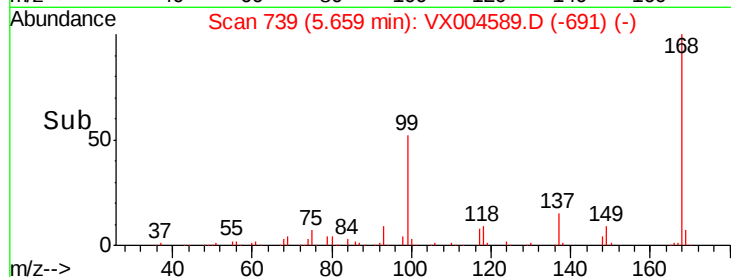
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.27 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004589.D

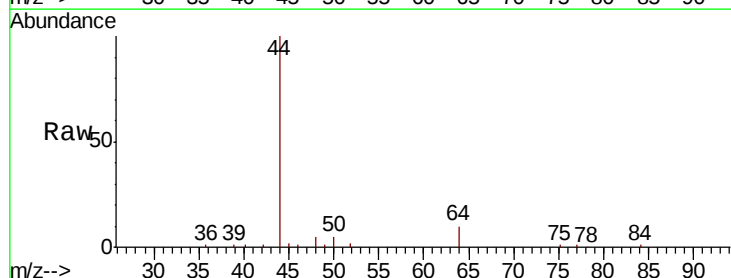
Acq: 15 Sep 2018 17:20

Tgt Ion: 50 Resp: 768

Ion Ratio Lower Upper

50 100

52 32.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

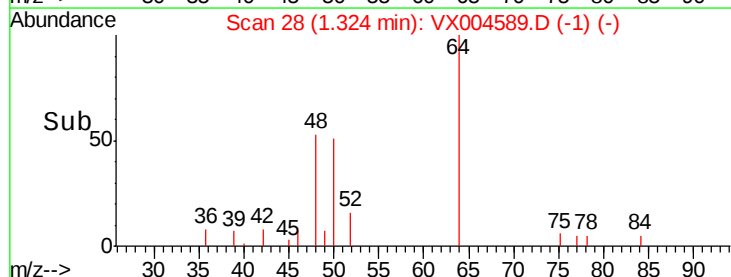
200

100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampled :

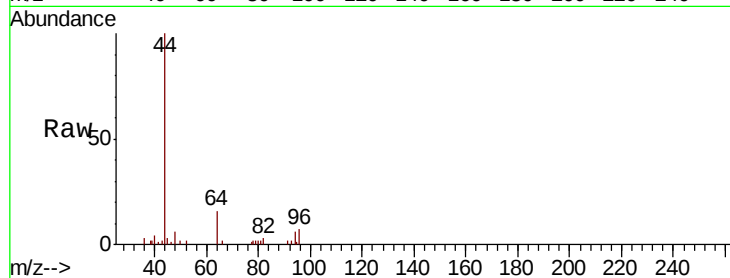
LIP-16

Tot Ion: 94 Resp: 404

Ion Ratio Lower Upper

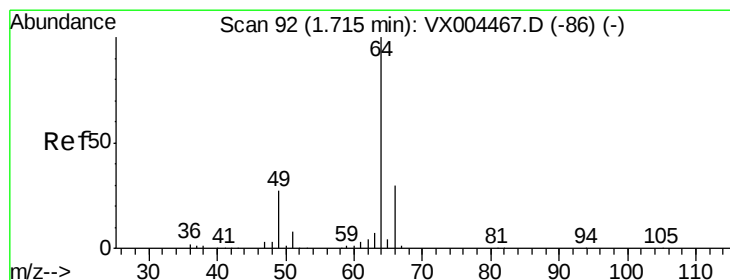
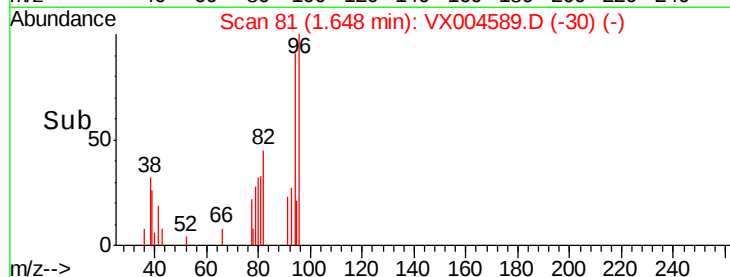
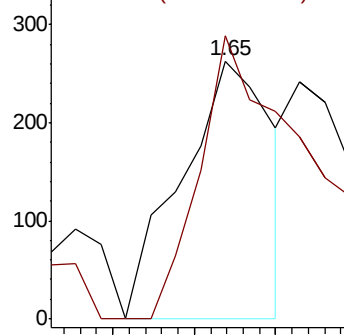
94 100

96 109.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.14 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX004589.D

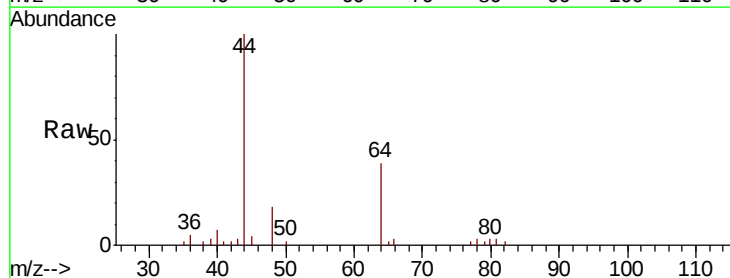
Acq: 15 Sep 2018 17:20

Tgt Ion: 64 Resp: 2154

Ion Ratio Lower Upper

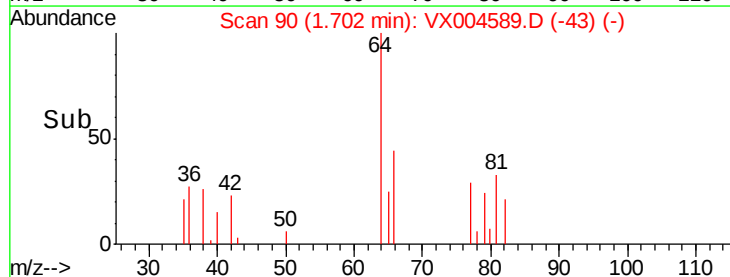
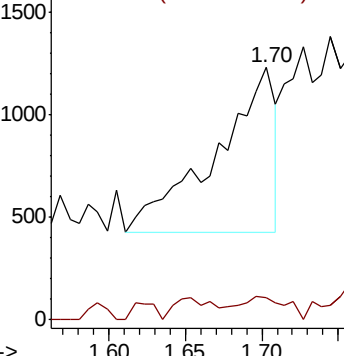
64 100

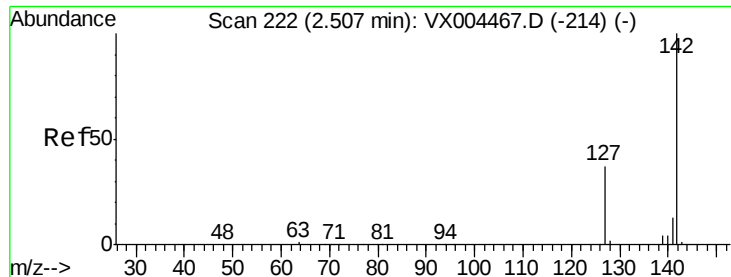
66 13.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

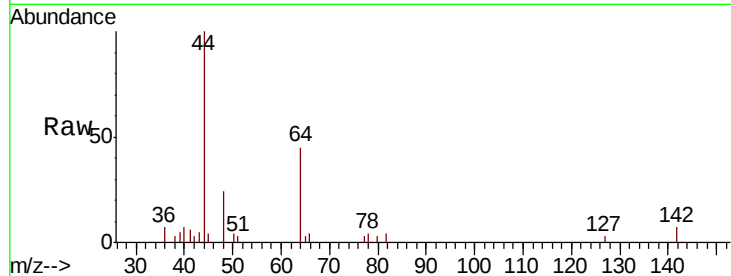




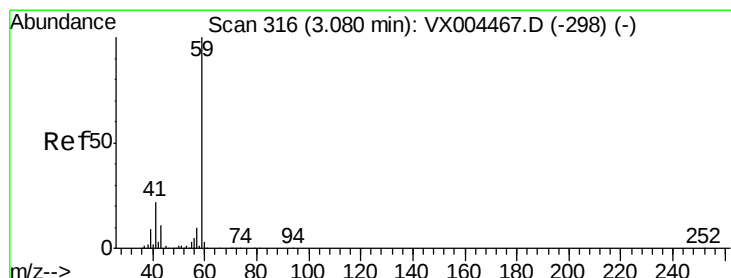
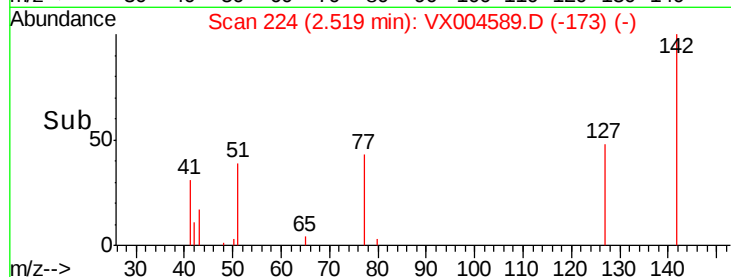
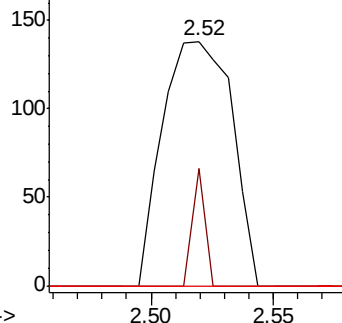
#10
Methyl Iodide
Concen: 4.34 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004589.D
Acq: 15 Sep 2018 17:20

Instrument :
MSVOA_X
ClientSampled :
LIP-16

Tot Ion:142 Resp: 274
Ion Ratio Lower Upper
142 100
127 8.8 33.8 50.6#
141 0.0 11.4 17.0#

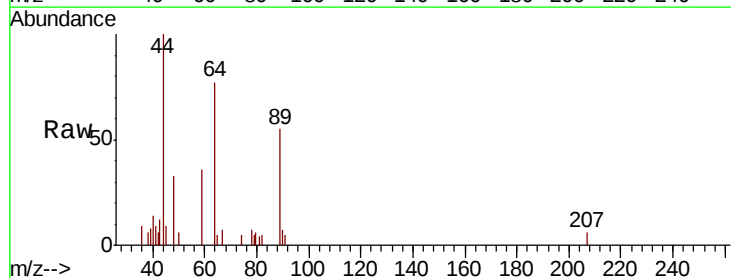


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

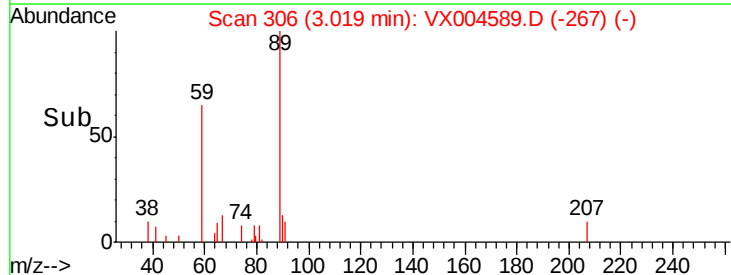
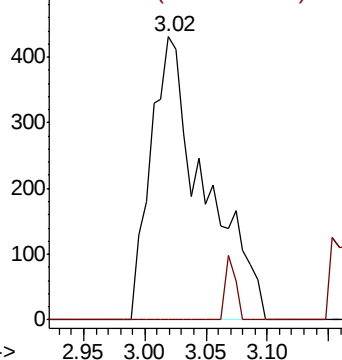


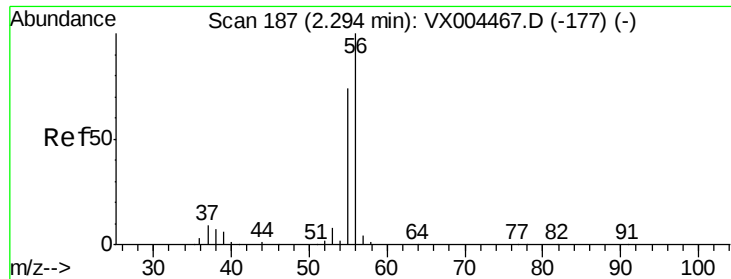
#11
Tert butyl alcohol
Concen: 1.95 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004589.D
Acq: 15 Sep 2018 17:20

Tgt Ion: 59 Resp: 1322
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



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





#13

Acrolein

Concen: 0.56 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampled :

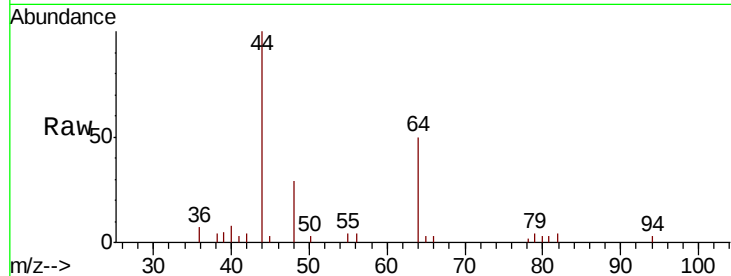
LIP-16

Tot Ion: 56 Resp: 151

Ion Ratio Lower Upper

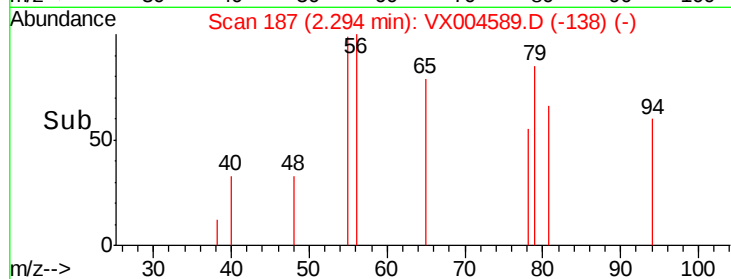
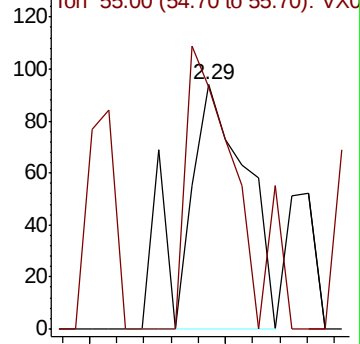
56 100

55 93.4 54.7 82.1#

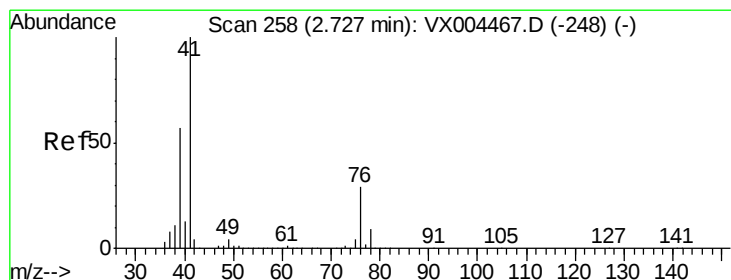


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#14

Allyl chloride

Concen: 1.09 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

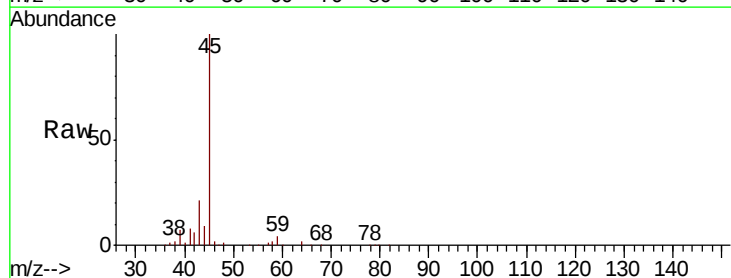
Tgt Ion: 41 Resp: 5166

Ion Ratio Lower Upper

41 100

39 81.9 48.9 73.3#

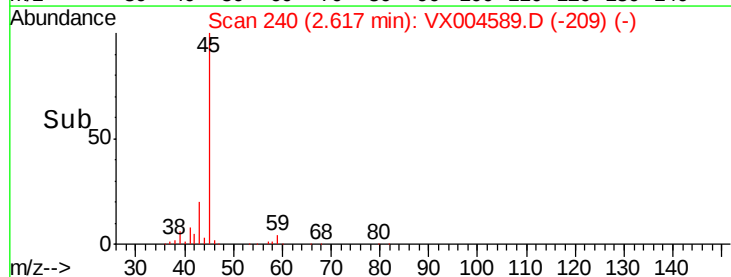
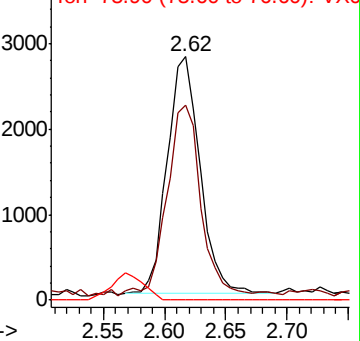
76 0.0 26.7 40.1#



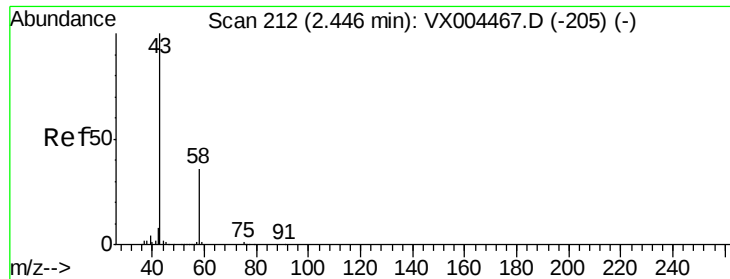
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



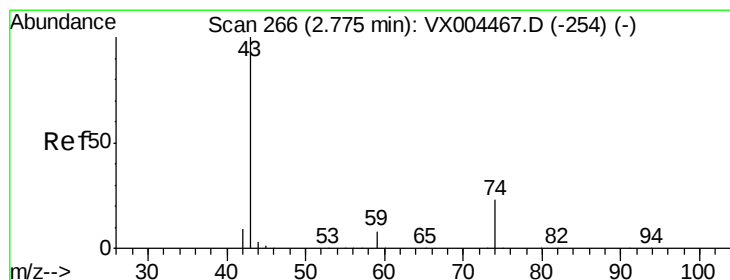
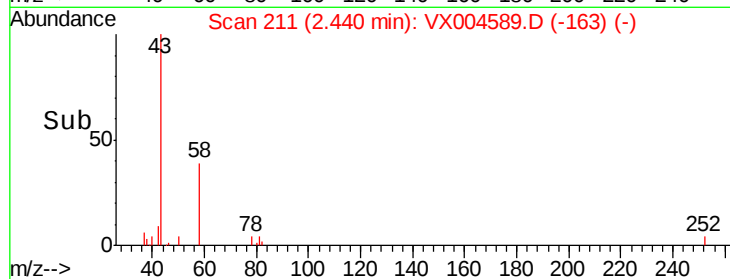
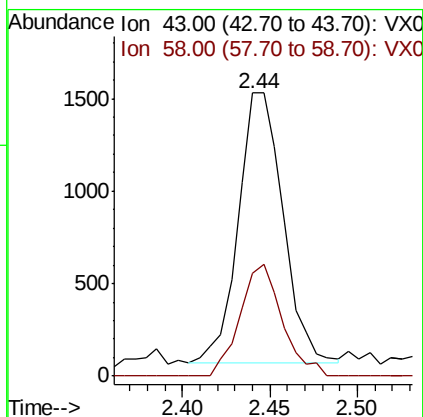
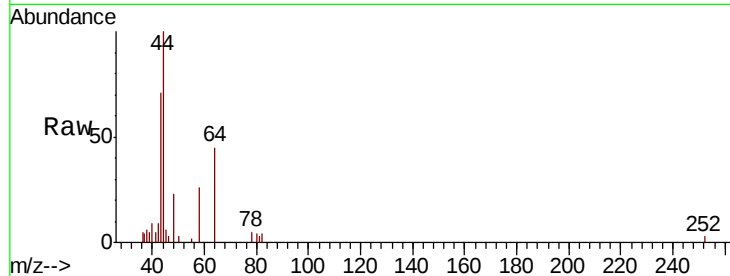
Time-->



#16
Acetone
Concen: 1.86 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX004589.D
Acq: 15 Sep 2018 17:20

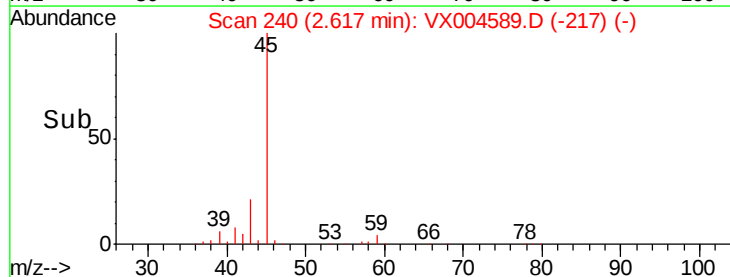
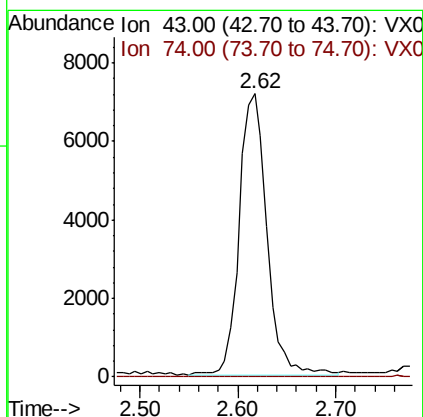
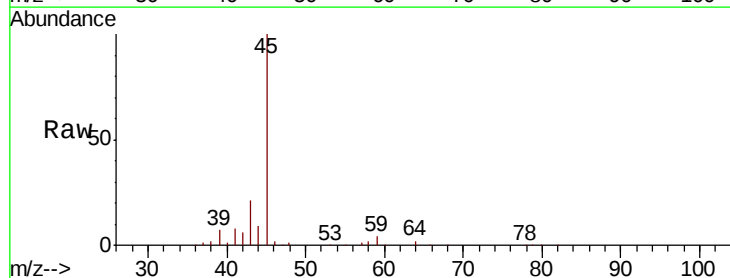
Instrument :
MSVOA_X
ClientSampleId :
LIP-16

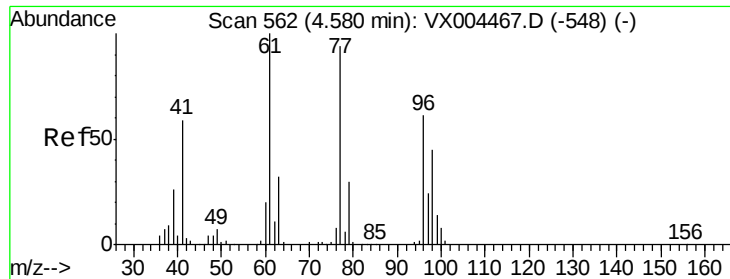
Tot Ion: 43 Resp: 2580
Ion Ratio Lower Upper
43 100
58 38.3 26.2 39.4



#18
Methyl Acetate
Concen: 3.59 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.16 min
Lab File: VX004589.D
Acq: 15 Sep 2018 17:20

Tgt Ion: 43 Resp: 13970
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#





#26

2,2-Dichloropropane

Concen: 0.40 ug/l

RT: 4.76 min Scan# 592

Delta R.T. 0.18 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampleId :

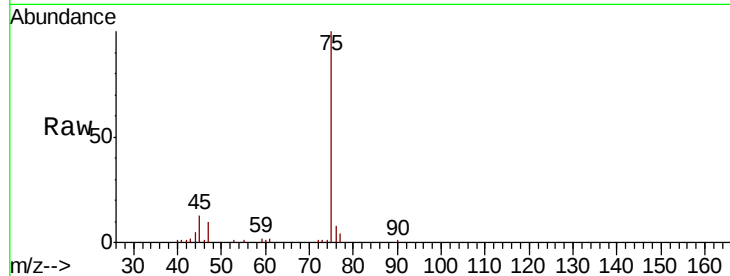
LIP-16

Tot Ion: 77 Resp: 1312

Ion Ratio Lower Upper

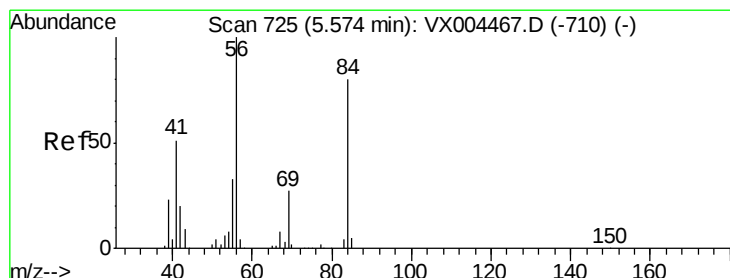
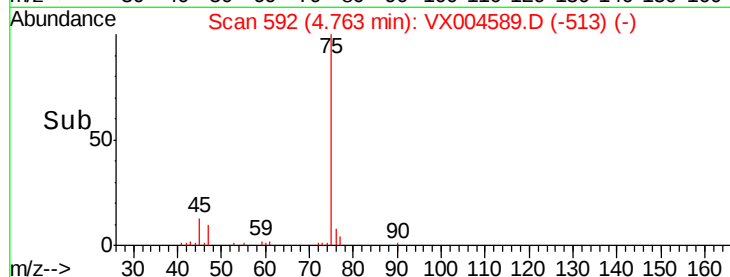
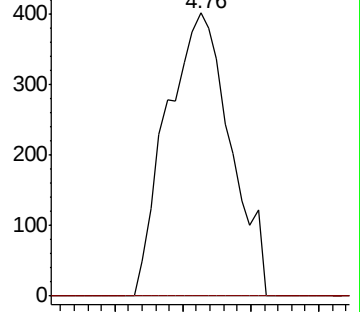
77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 0.88 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

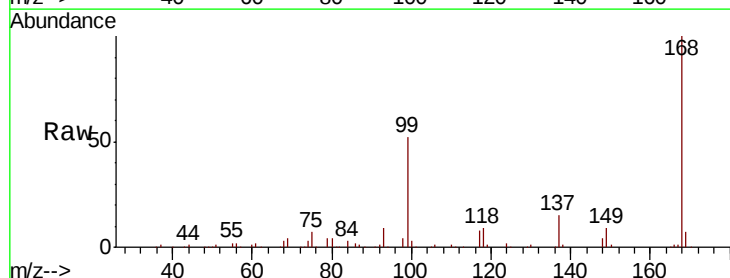
Tgt Ion: 56 Resp: 3607

Ion Ratio Lower Upper

56 100

69 212.6 25.4 38.2#

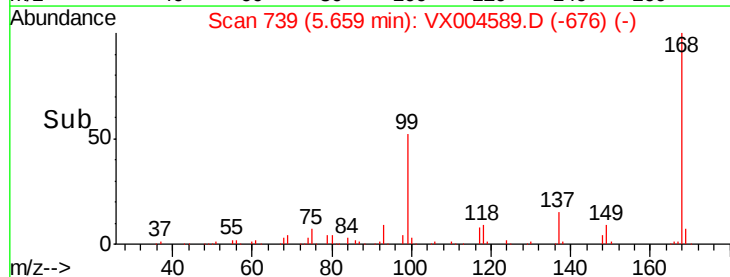
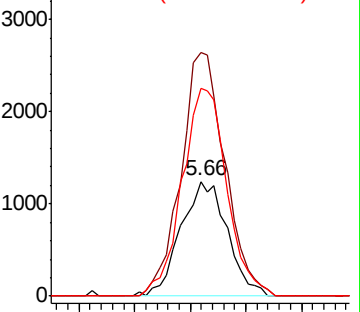
84 181.1 71.4 107.2#

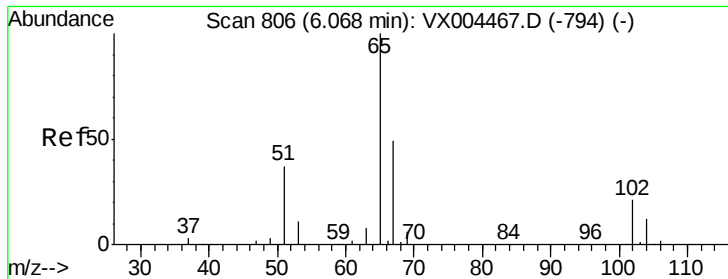


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.87 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampleId :

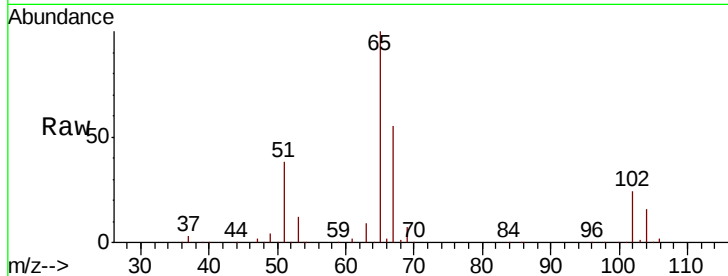
LIP-16

Tot Ion: 65 Resp: 138732

Ion Ratio Lower Upper

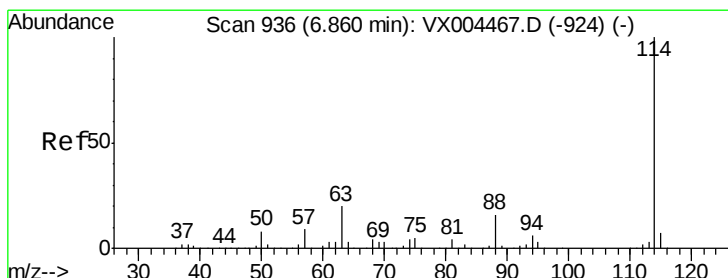
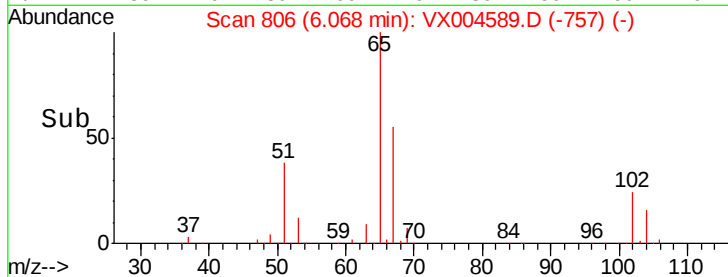
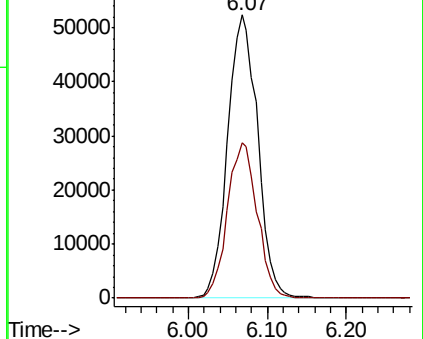
65 100

67 54.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

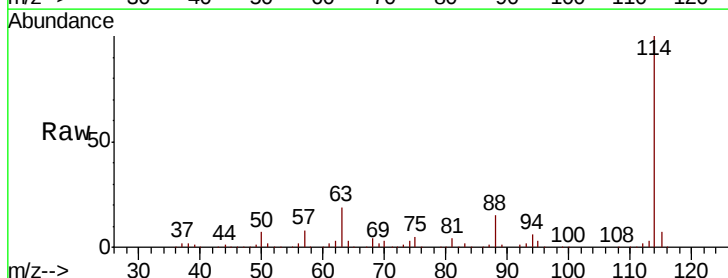
Tgt Ion: 114 Resp: 315075

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.0

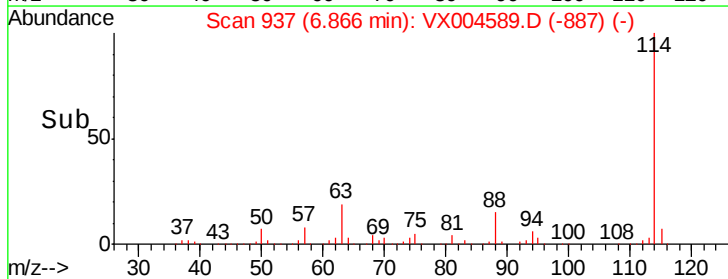
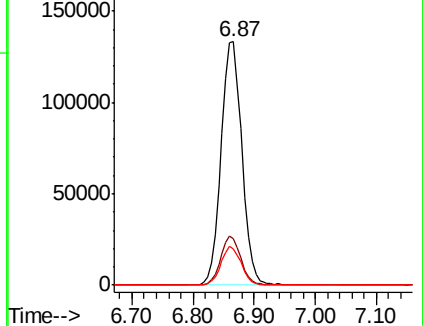
88 14.9 0.0 30.4

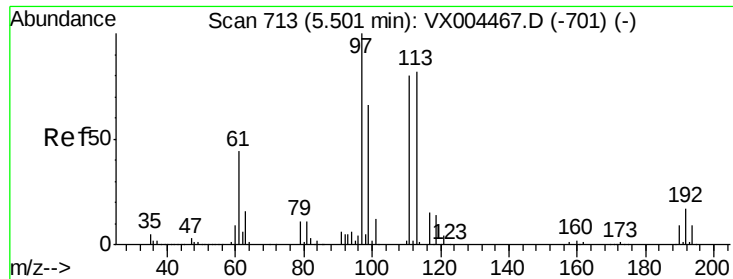


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.88 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampleId :

LIP-16

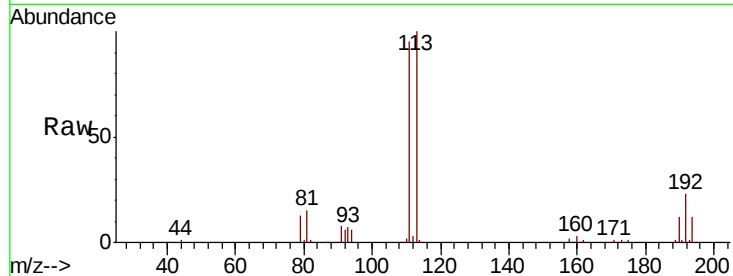
Tot Ion:113 Resp: 135174

Ion Ratio Lower Upper

113 100

111 101.3 82.4 123.6

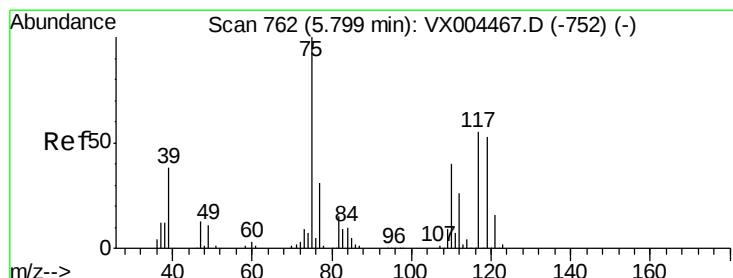
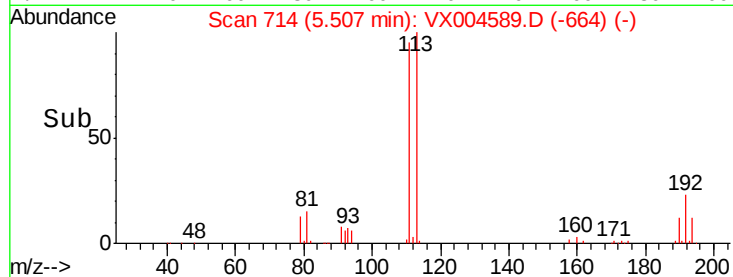
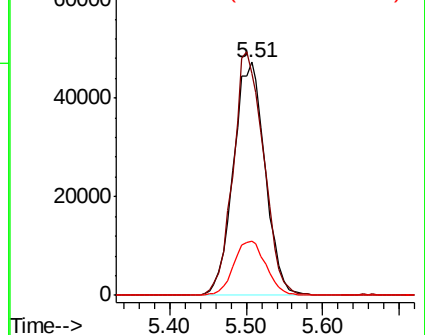
192 23.8 19.4 29.2



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: 3.71 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

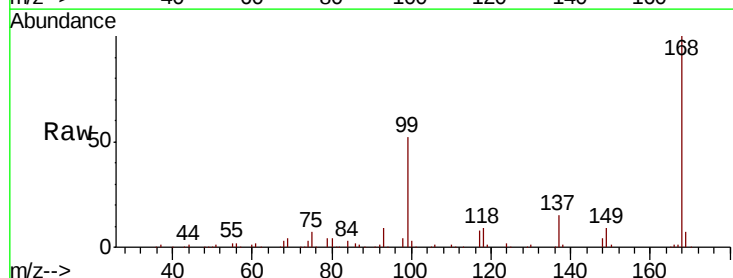
Tgt Ion: 75 Resp: 14191

Ion Ratio Lower Upper

75 100

110 9.7 18.0 54.0#

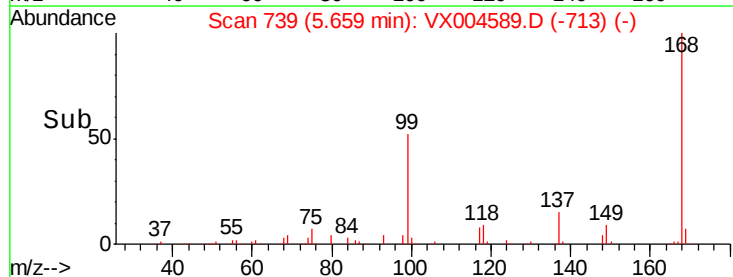
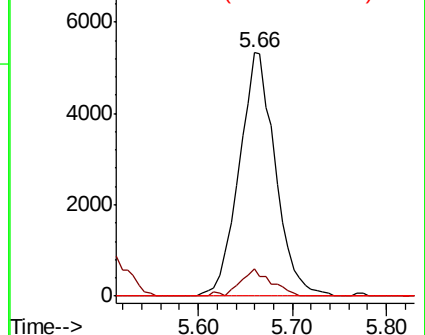
77 0.0 24.6 36.8#

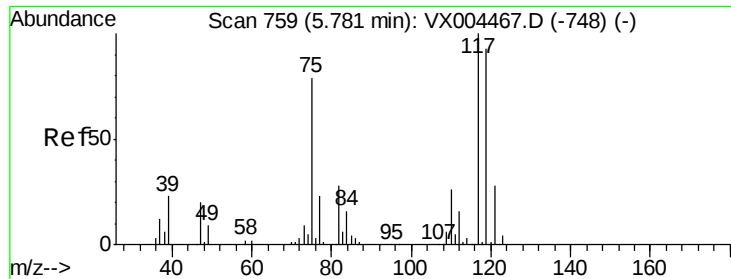


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.06 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampleId :

LIP-16

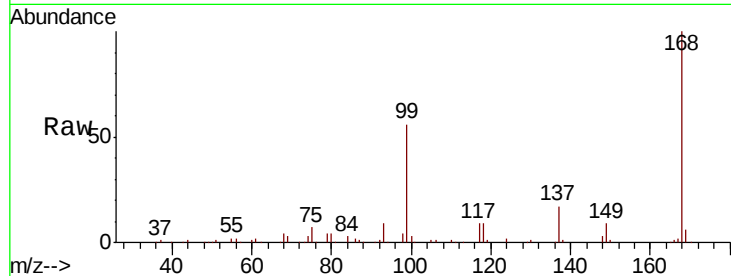
Tot Ion:117 Resp: 18889

Ion Ratio Lower Upper

117 100

119 6.6 78.8 118.2#

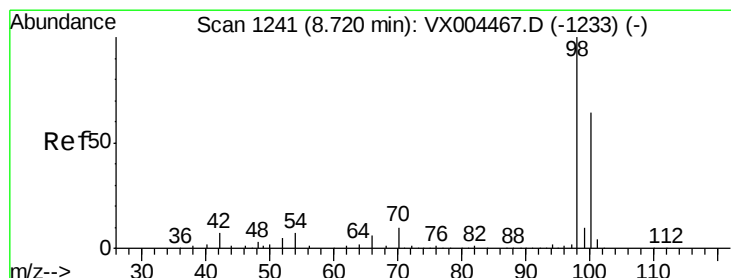
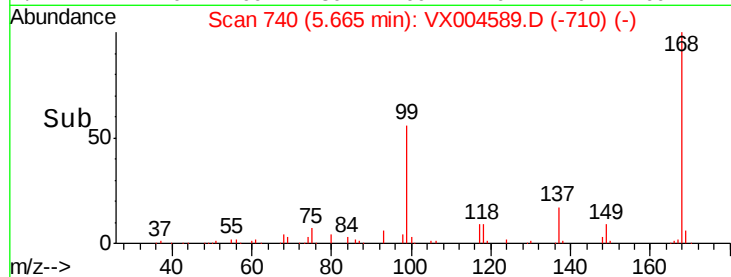
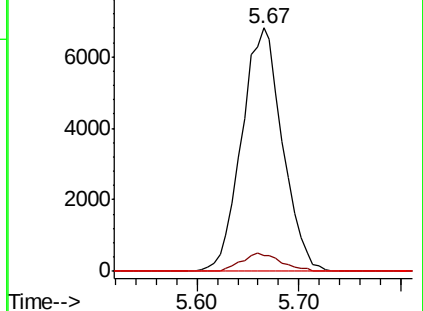
121 0.0 24.9 37.3#



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: 45.82 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004589.D

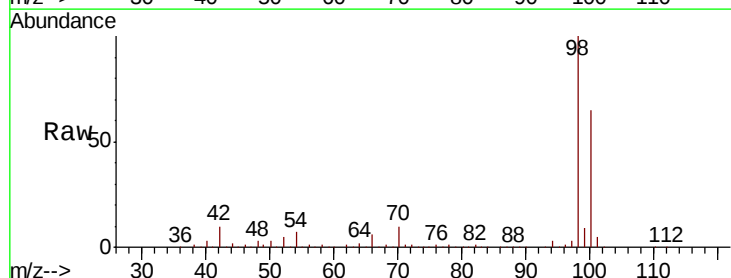
Acq: 15 Sep 2018 17:20

Tgt Ion: 98 Resp: 443060

Ion Ratio Lower Upper

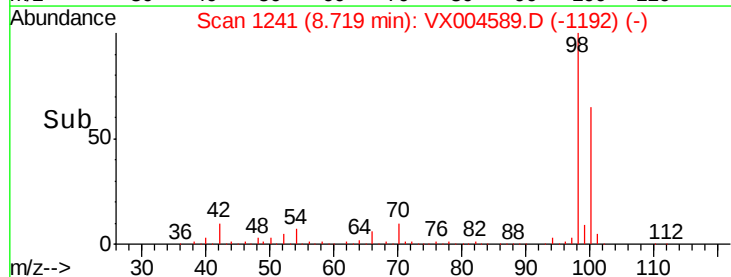
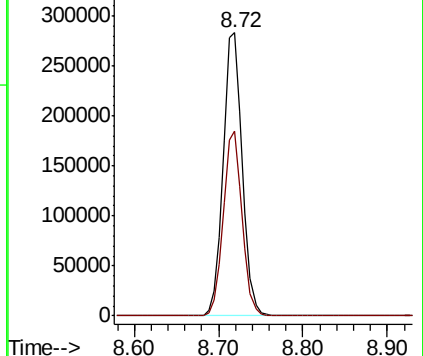
98 100

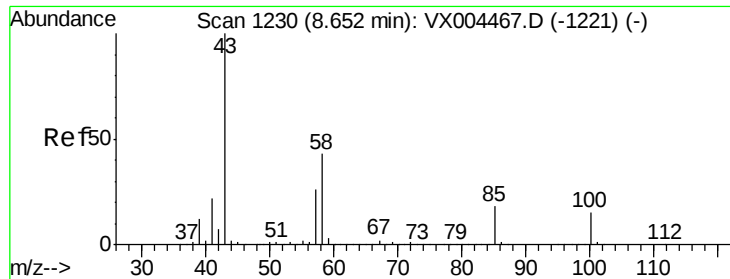
100 64.1 52.9 79.3



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: 0.45 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampled :

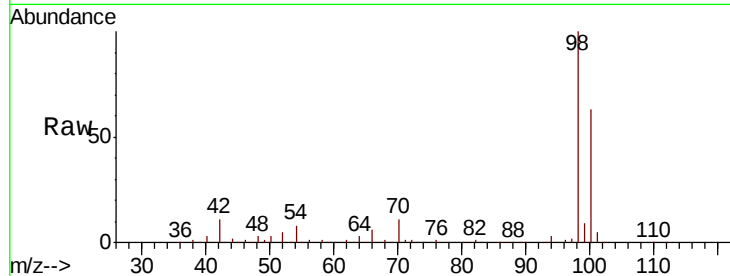
LIP-16

Tot Ion: 43 Resp: 1848

Ion Ratio Lower Upper

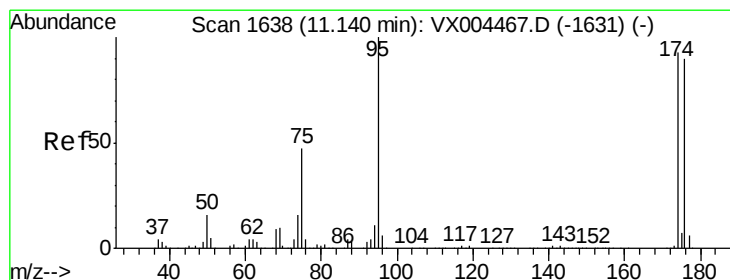
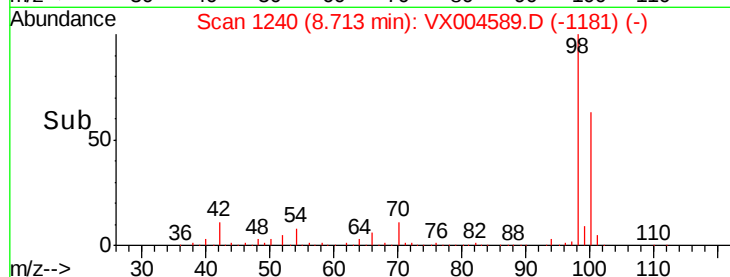
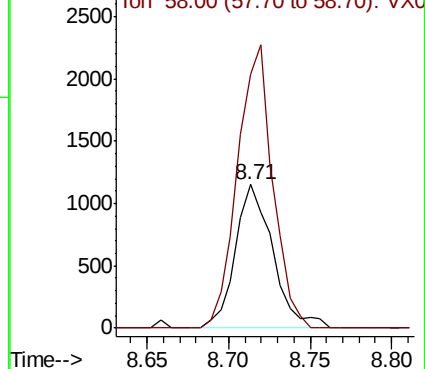
43 100

58 185.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.27 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

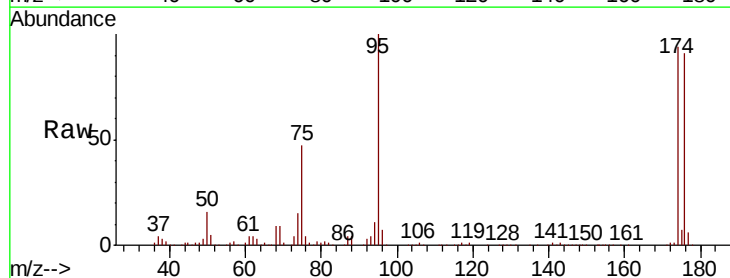
Tgt Ion: 95 Resp: 156229

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.2

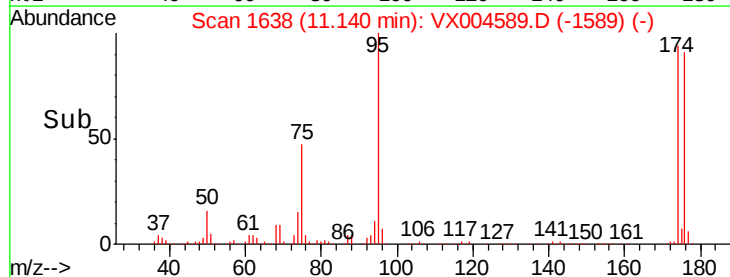
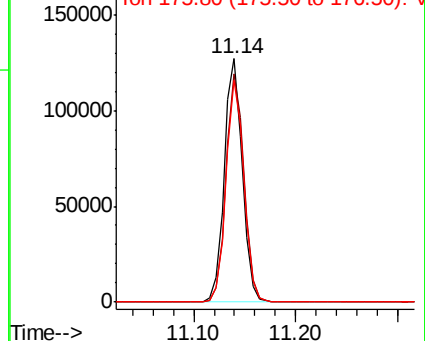
176 90.1 0.0 178.6

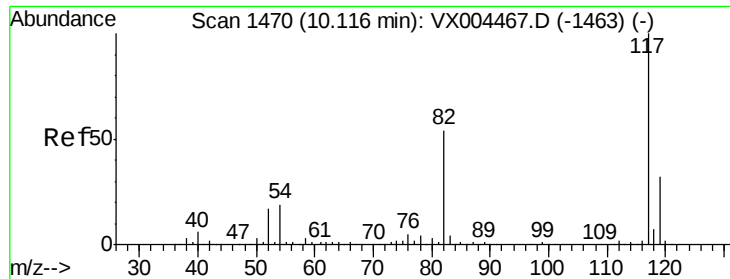


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

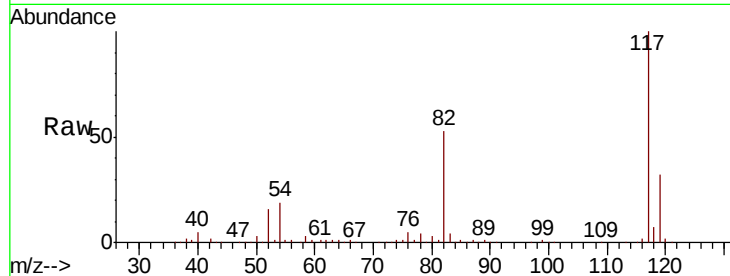




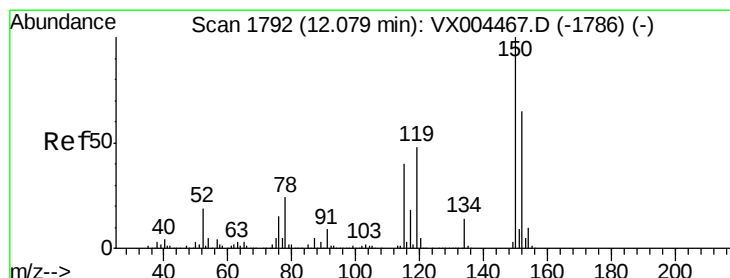
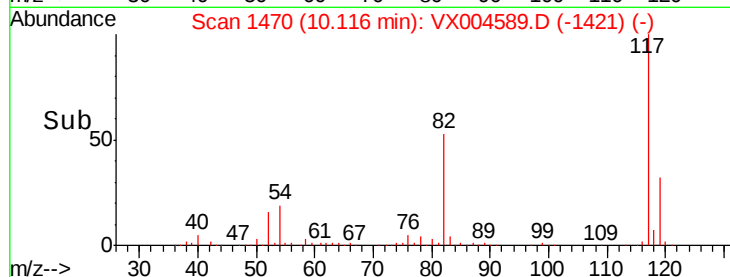
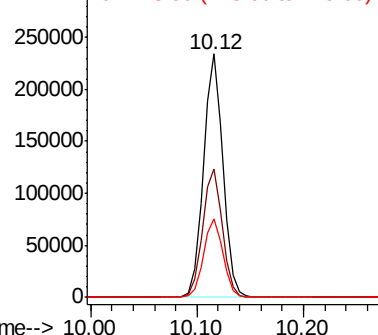
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004589.D
Acq: 15 Sep 2018 17:20

Instrument :
MSVOA_X
ClientSampleId :
LIP-16

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	47.8	71.6
119	32.2	29.3	43.9

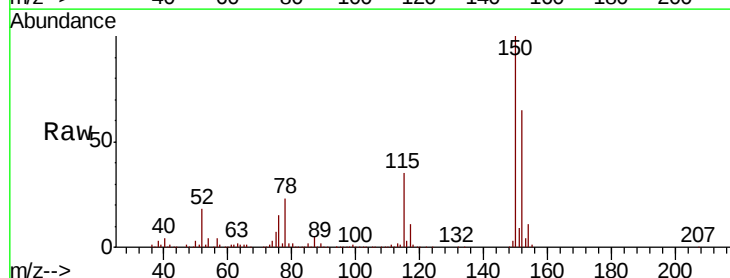


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

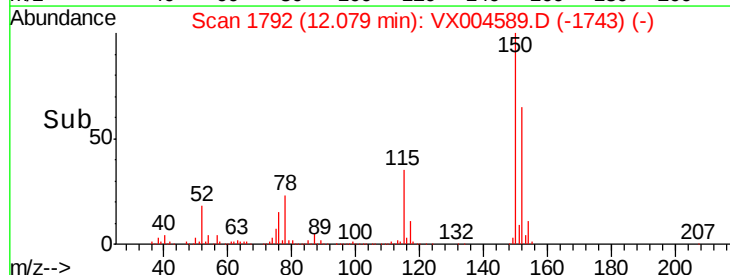
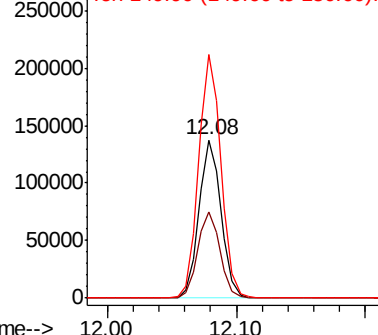


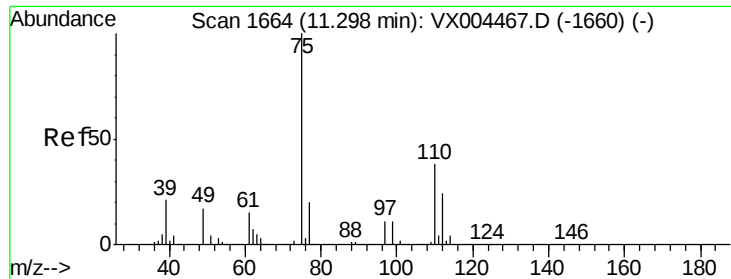
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004589.D
Acq: 15 Sep 2018 17:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.0	117.0
150	155.8	0.0	351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.96 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

Instrument :

MSVOA_X

ClientSampleId :

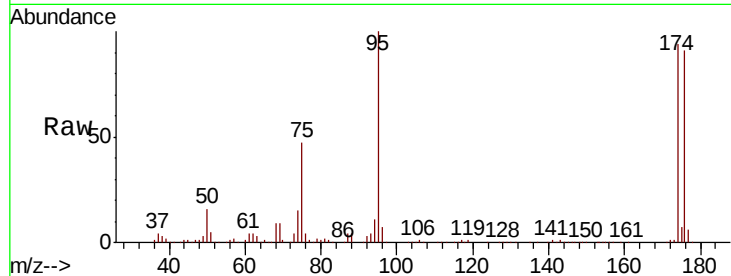
LIP-16

Tot Ion: 75 Resp: 73590

Ion Ratio Lower Upper

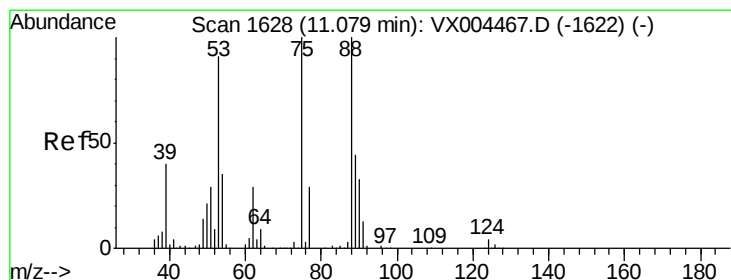
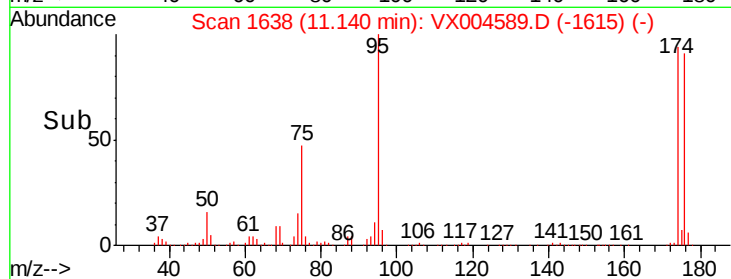
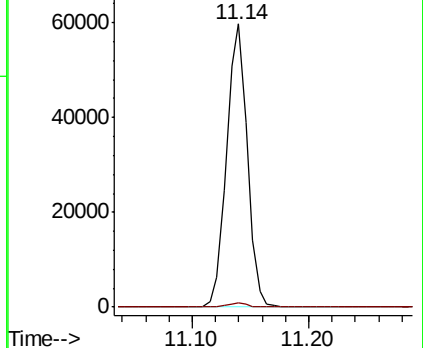
75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 69.99 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004589.D

Acq: 15 Sep 2018 17:20

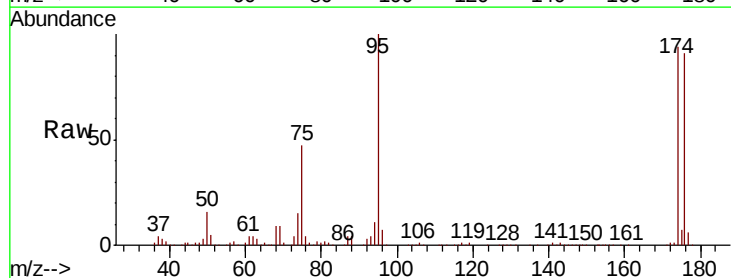
Tgt Ion: 75 Resp: 73590

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

