

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110218\
 Data File : VX005754.D
 Acq On : 02 Nov 2018 14:15
 Operator : JC/MD
 Sample : PB114401ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#05

Quant Time: Nov 03 01:27:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	109918	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	191312	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	171541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	71499	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	90351	56.22	ug/l	0.00
Spiked Amount			Recovery	=	112.44%	
35) Dibromofluoromethane	5.50	113	67866	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
50) Toluene-d8	8.71	98	235942	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	11.14	95	73051	42.60	ug/l	0.00
Spiked Amount			Recovery	=	85.20%	

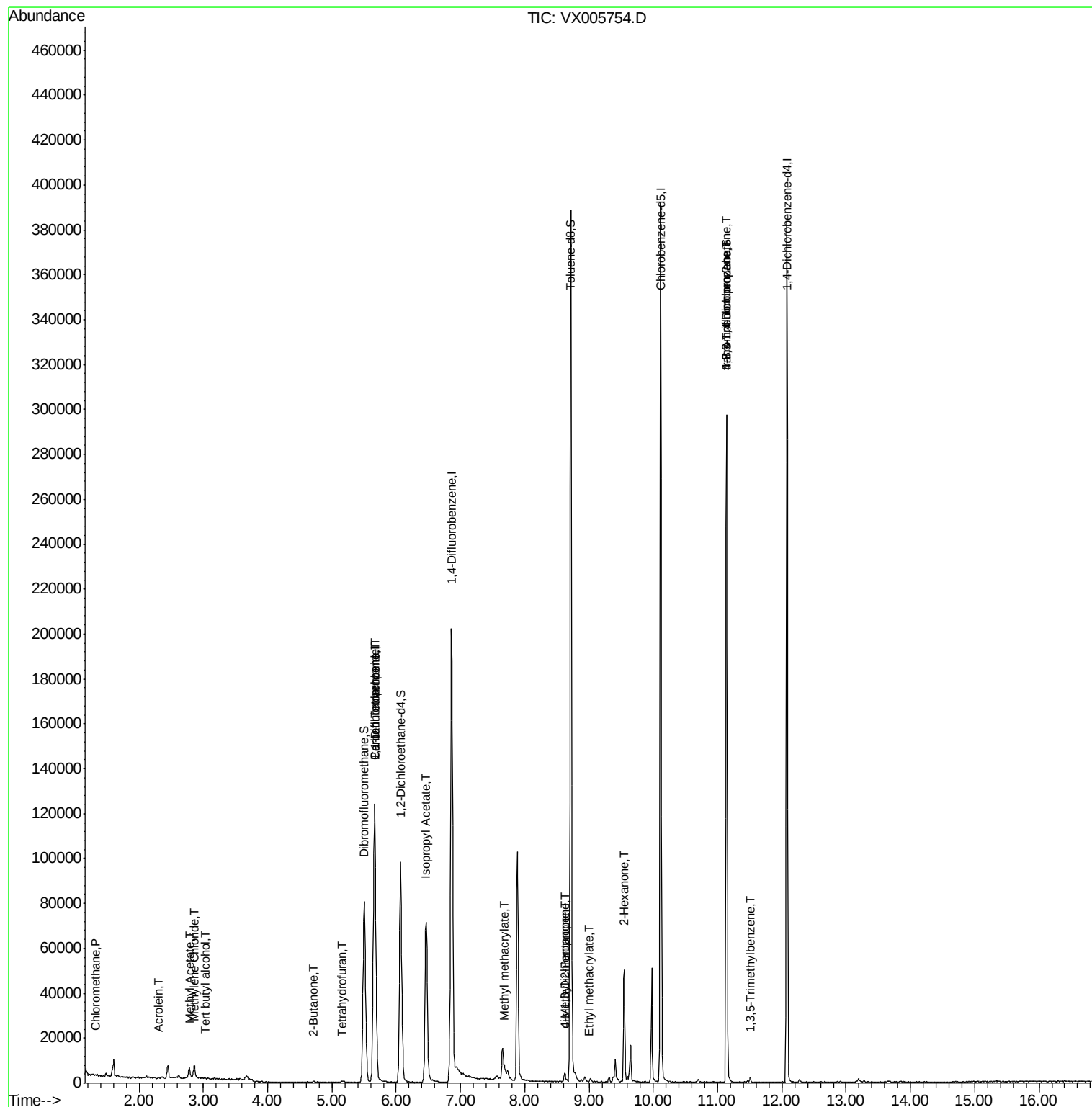
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	332	0.222	ug/l #	44
6) Chloroethane	1.73	64	69	Below Cal	#	42
11) Tert butyl alcohol	3.02	59	390	0.894	ug/l #	72
13) Acrolein	2.29	56	29	12.271	ug/l #	14
16) Acetone	2.45	43	6124	Below Cal		99
18) Methyl Acetate	2.78	43	6132	2.659	ug/l	92
20) Methylene Chloride	2.85	84	2270	1.638	ug/l	95
25) 2-Butanone	4.71	43	1167	0.861	ug/l #	75
29) Tetrahydrofuran	5.15	42	353	0.427	ug/l #	56
36) 1,1-Dichloropropene	5.67	75	9948	4.881	ug/l #	49
38) Carbon Tetrachloride	5.67	117	11513	6.252	ug/l #	16
43) Isopropyl Acetate	6.46	43	98195	26.017	ug/l	98
48) Methyl methacrylate	7.68	41	5046	2.762	ug/l #	23
51) 4-Methyl-2-Pentanone	8.62	43	1653	0.642	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	538	0.249	ug/l #	70
56) Ethyl methacrylate	9.00	69	49	2.490	ug/l #	22
59) 2-Hexanone	9.55	43	5476	2.615	ug/l	66
76) 1,2,3-Trichloropropane	11.14	75	38878	21.832	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	856	0.214	ug/l	78
81) trans-1,4-Dichloro-2-buten	11.14	75	38878	70.538	ug/l #	9

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

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QLast Update : Wed Oct 31 18:23:06 2018
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: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

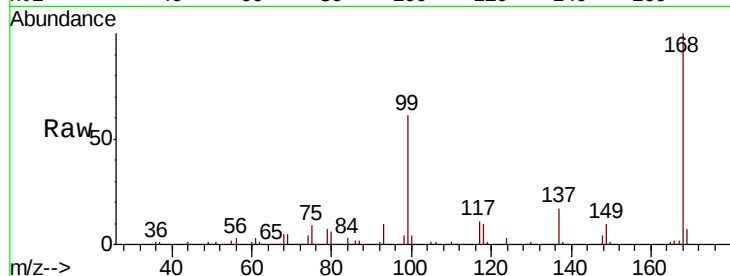
PB114401ZHE#05

Tot Ion:168 Resp: 109918

Ion Ratio Lower Upper

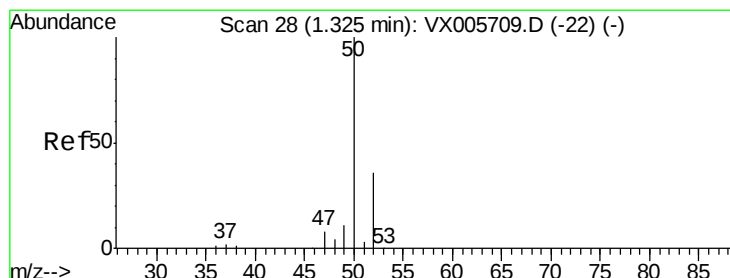
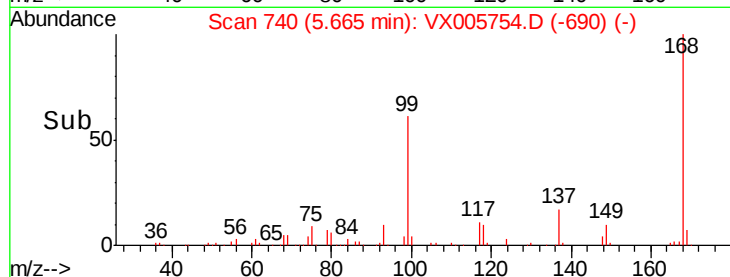
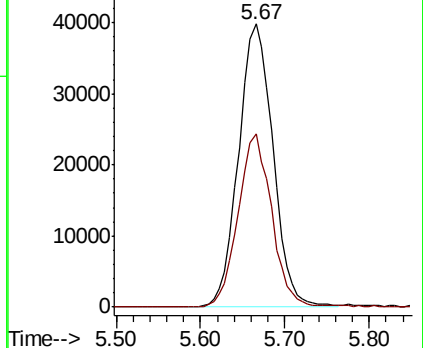
168 100

99 61.4 40.7 61.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.222 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005754.D

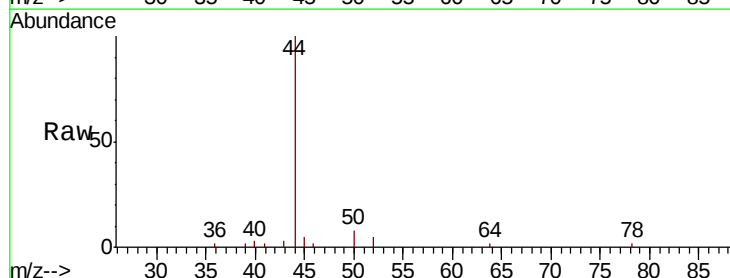
Acq: 02 Nov 2018 14:15

Tgt Ion: 50 Resp: 332

Ion Ratio Lower Upper

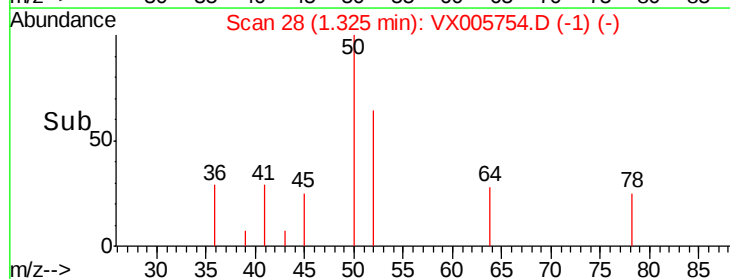
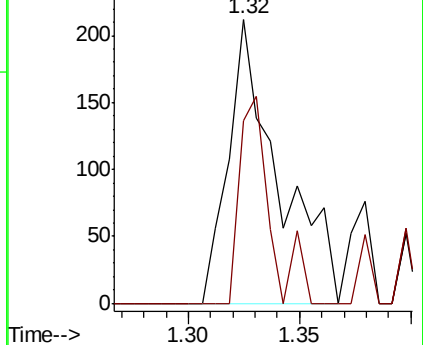
50 100

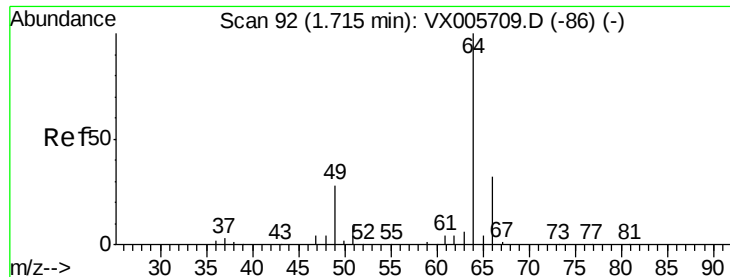
52 64.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

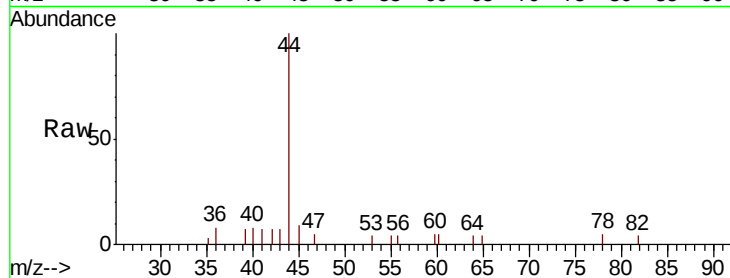
PB114401ZHE#05

Tot Ion: 64 Resp: 69

Ion Ratio Lower Upper

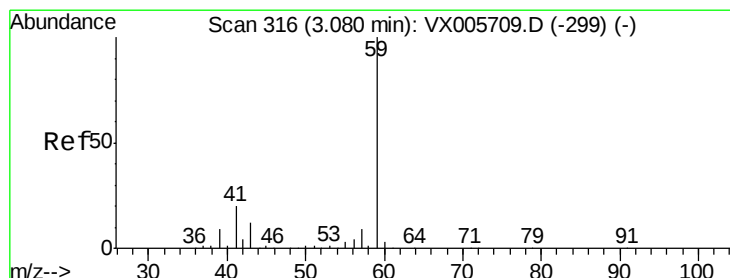
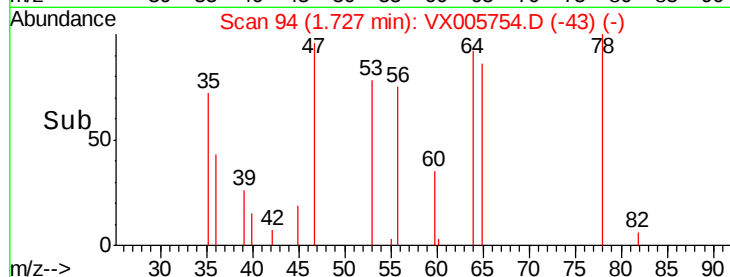
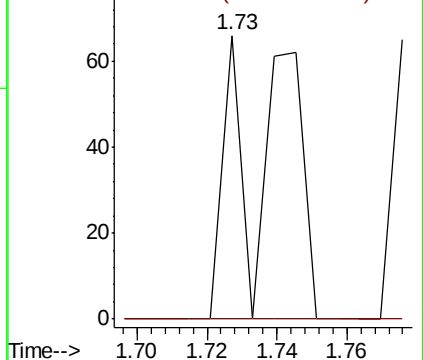
64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.894 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005754.D

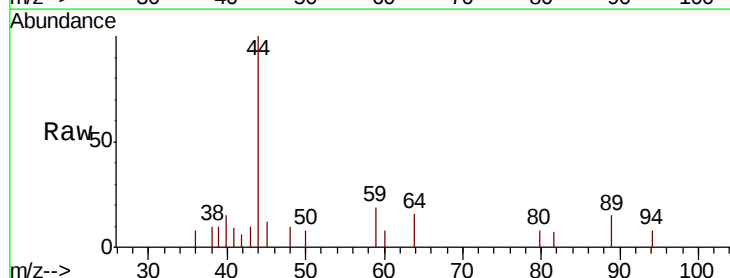
Acq: 02 Nov 2018 14:15

Tgt Ion: 59 Resp: 390

Ion Ratio Lower Upper

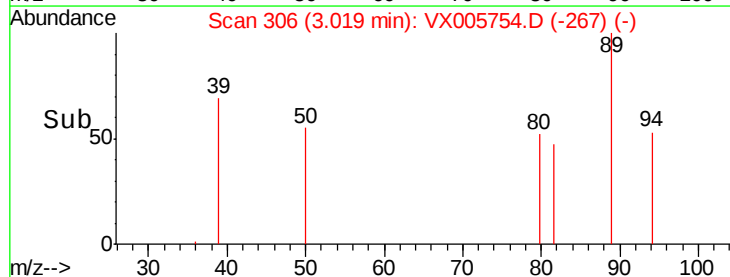
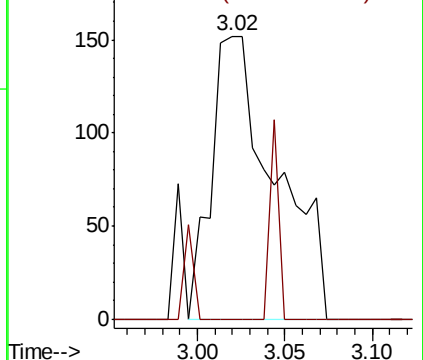
59 100

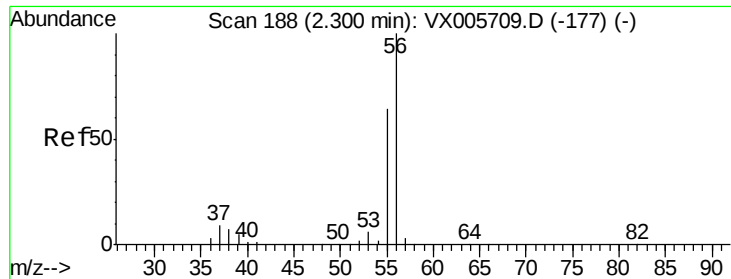
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 12.271 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

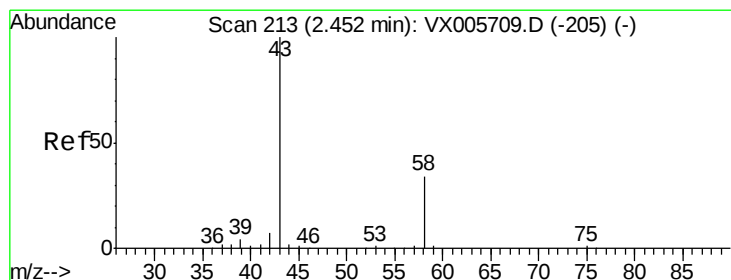
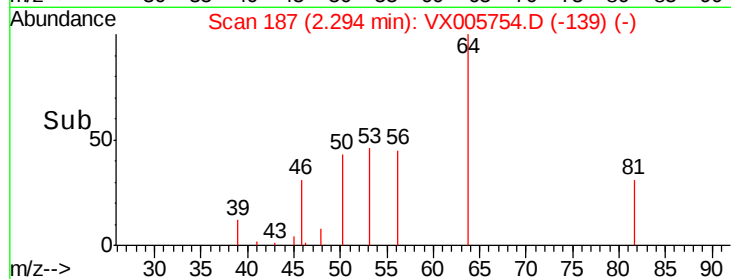
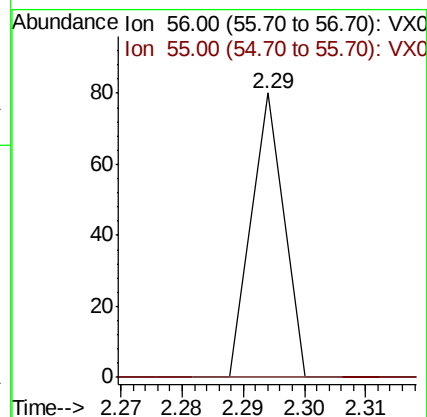
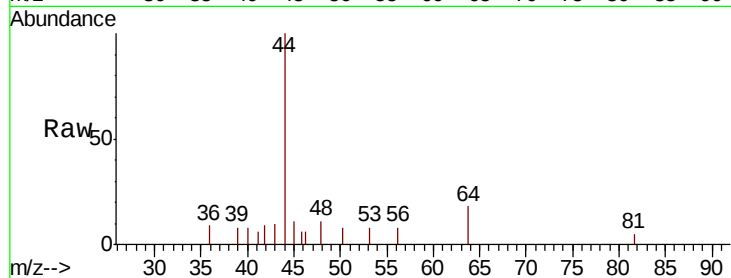
PB114401ZHE#05

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 213

Delta R.T. 0.00 min

Lab File: VX005754.D

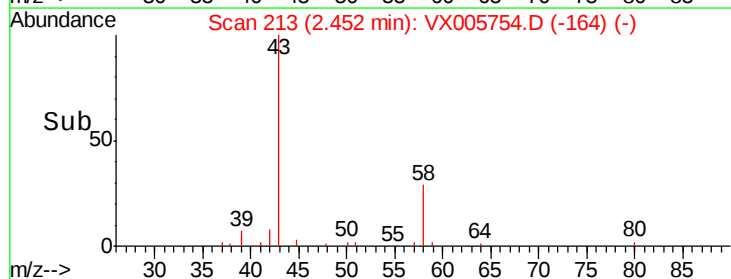
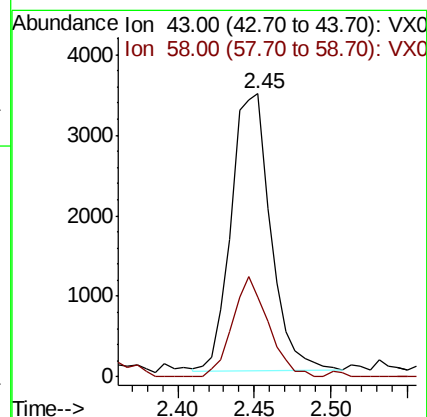
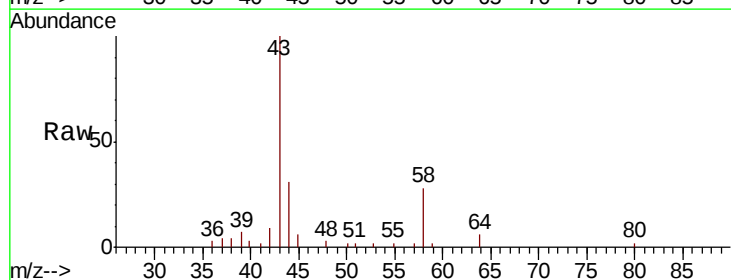
Acq: 02 Nov 2018 14:15

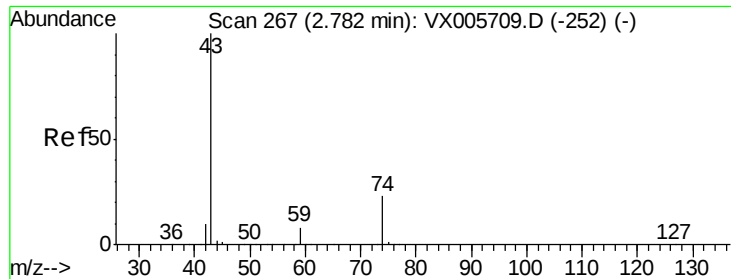
Tgt Ion: 43 Resp: 6124

Ion Ratio Lower Upper

43 100

58 29.2 23.8 35.6

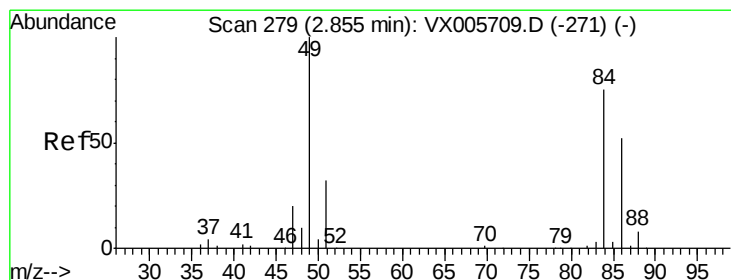
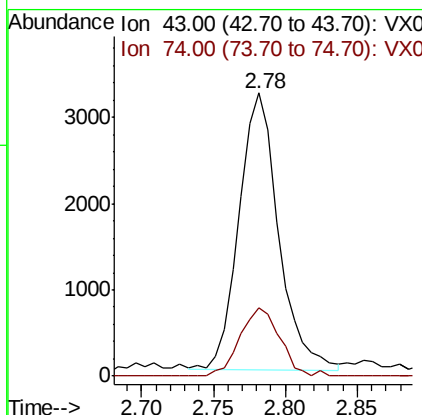
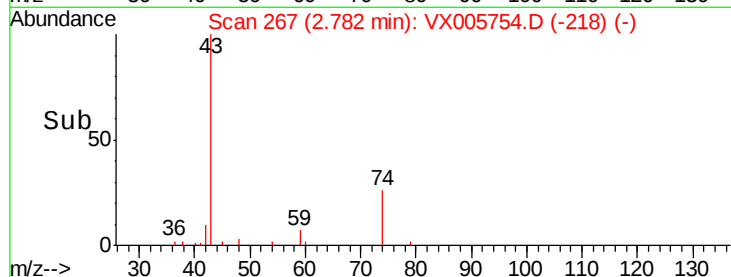
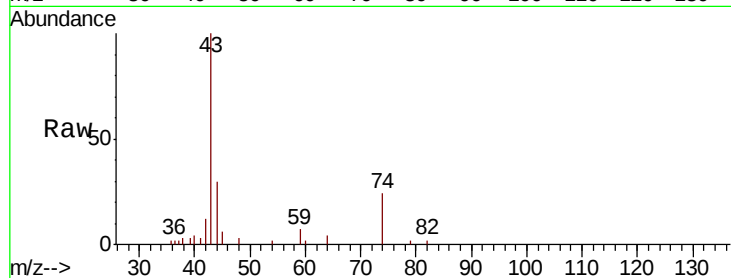




#18
Methyl Acetate
Concen: 2.659 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005754.D
Acq: 02 Nov 2018 14:15

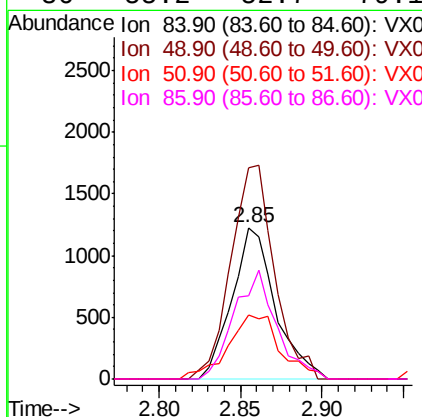
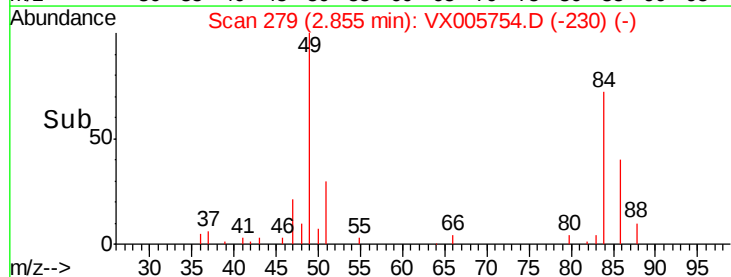
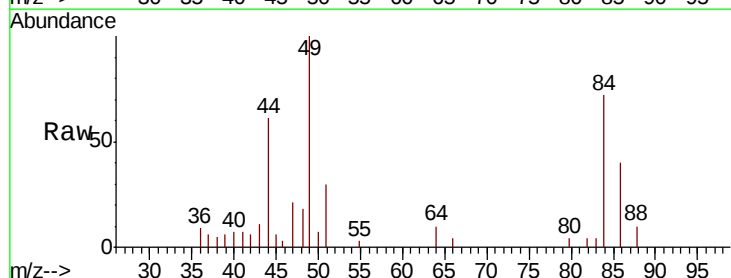
Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#05

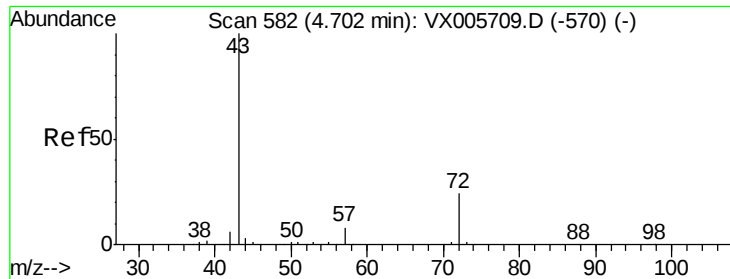
Tot Ion: 43 Resp: 6132
Ion Ratio Lower Upper
43 100
74 24.9 16.8 25.2



#20
Methylene Chloride
Concen: 1.638 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005754.D
Acq: 02 Nov 2018 14:15

Tgt Ion: 84 Resp: 2270
Ion Ratio Lower Upper
84 100
49 139.1 109.5 164.3
51 42.0 33.3 49.9
86 55.2 52.7 79.1





#25

2-Butanone

Concen: 0.861 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

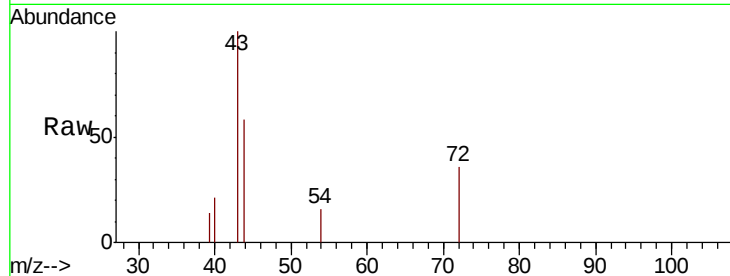
PB114401ZHE#05

Tot Ion: 43 Resp: 1167

Ion Ratio Lower Upper

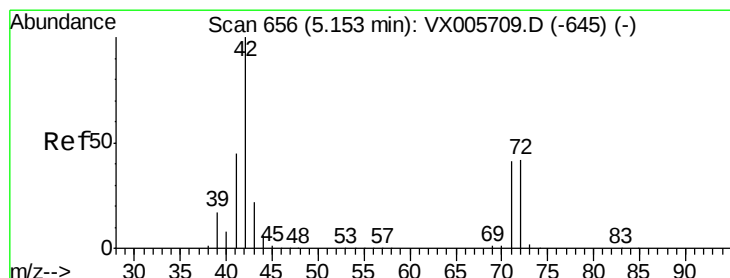
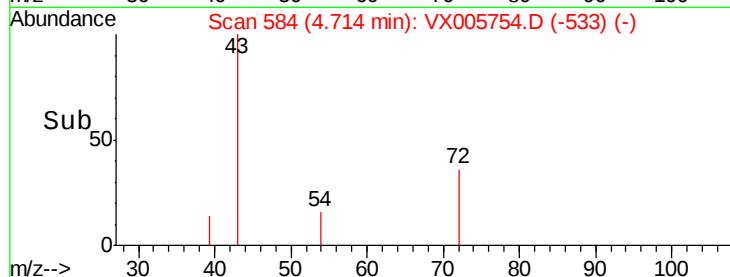
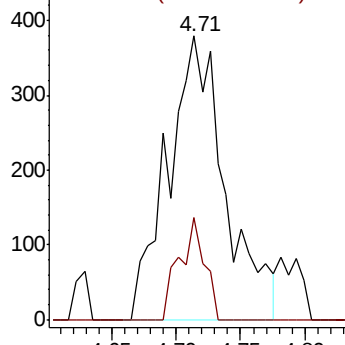
43 100

72 36.1 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.427 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

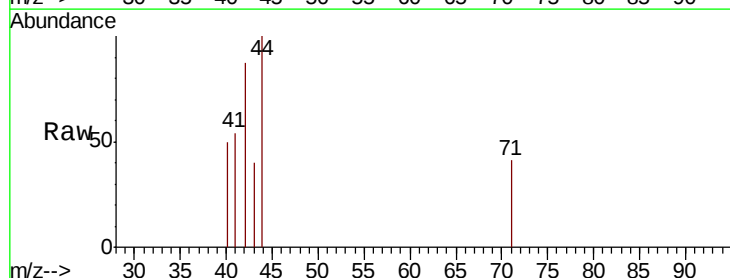
Tgt Ion: 42 Resp: 353

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

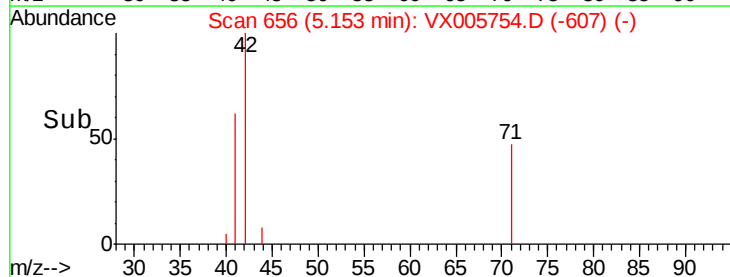
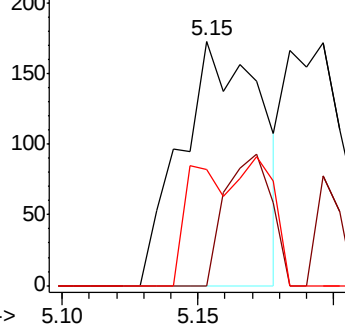
71 23.8 29.8 44.8#

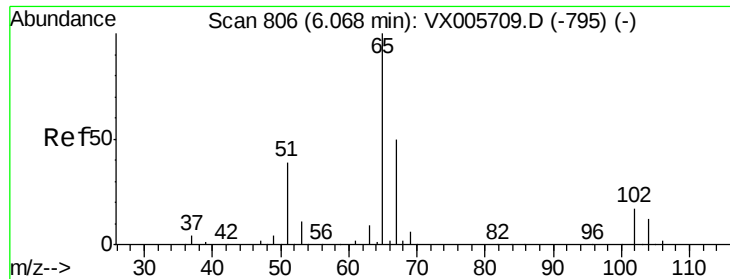


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.223 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

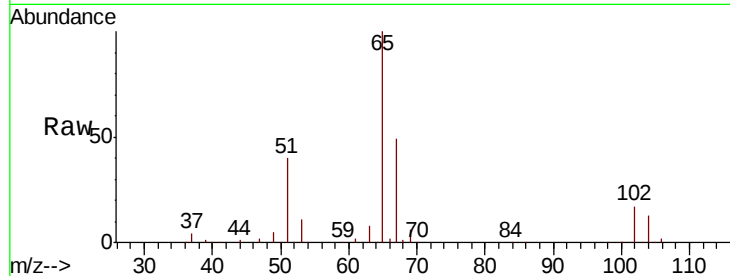
PB114401ZHE#05

Tot Ion: 65 Resp: 90351

Ion Ratio Lower Upper

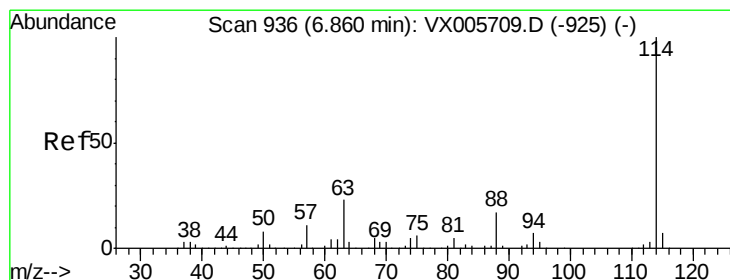
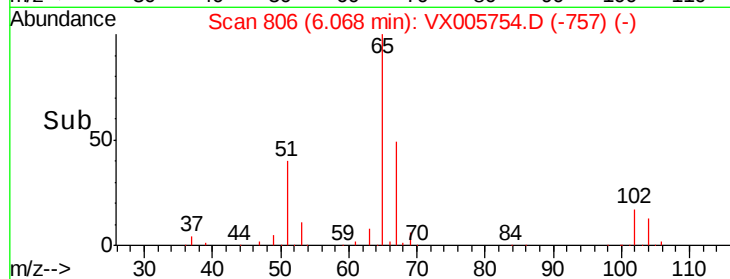
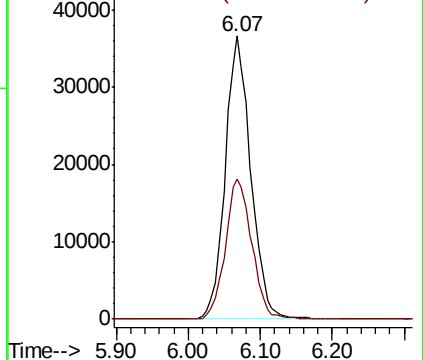
65 100

67 51.2 0.0 105.0



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: VX005754.D

Acq: 02 Nov 2018 14:15

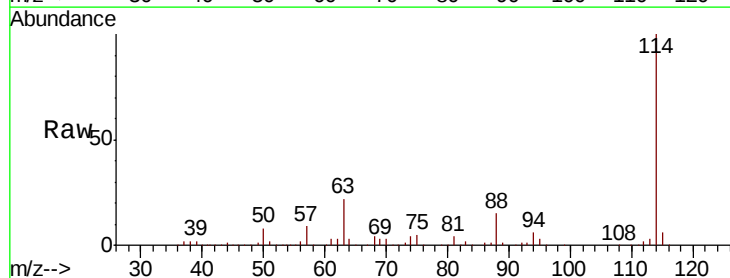
Tgt Ion: 114 Resp: 191312

Ion Ratio Lower Upper

114 100

63 22.5 0.0 42.8

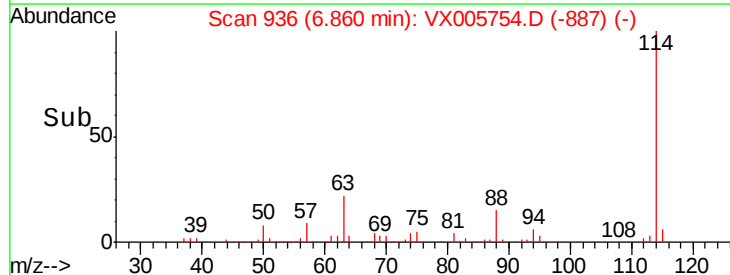
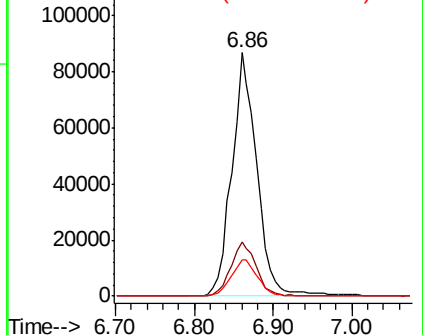
88 14.9 0.0 31.2

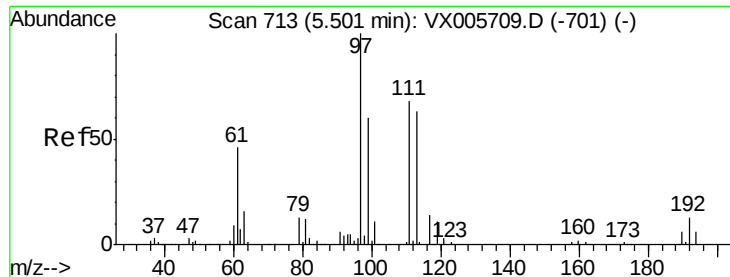


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

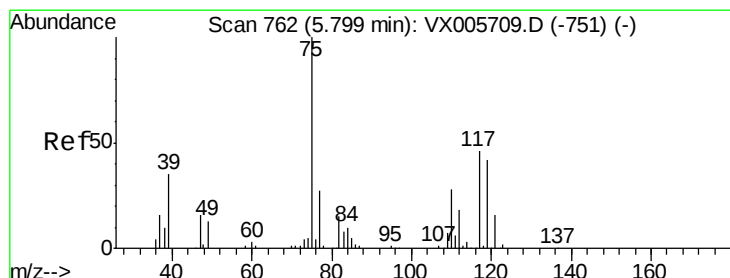
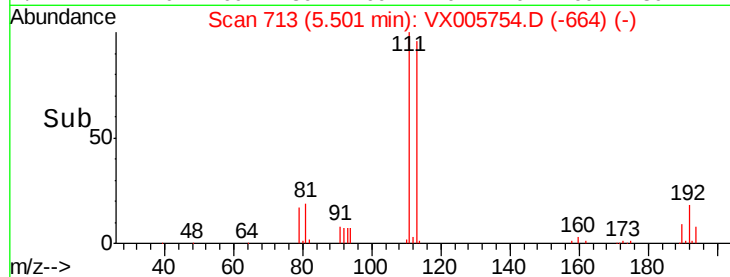
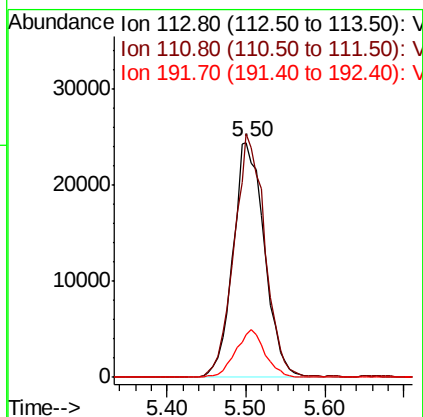
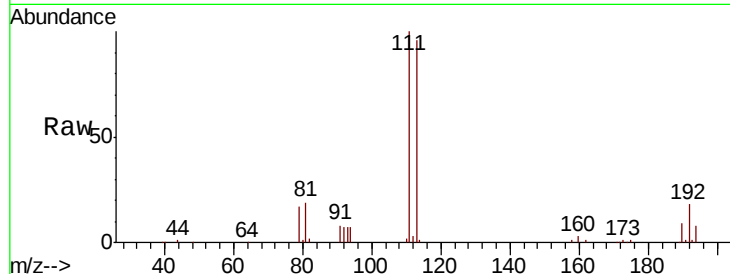




#35
 Dibromofluoromethane
 Concen: 51.233 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005754.D
 Acq: 02 Nov 2018 14:15

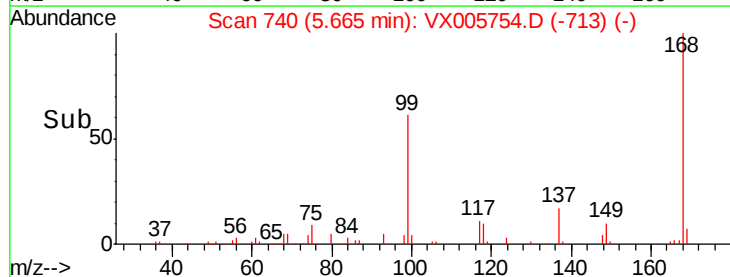
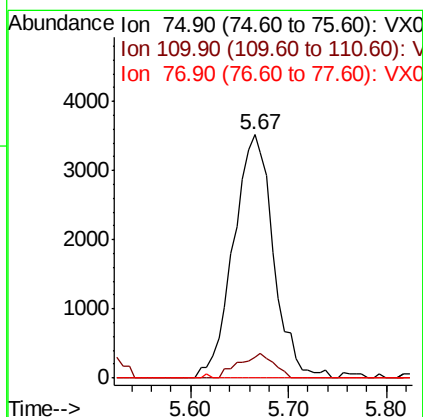
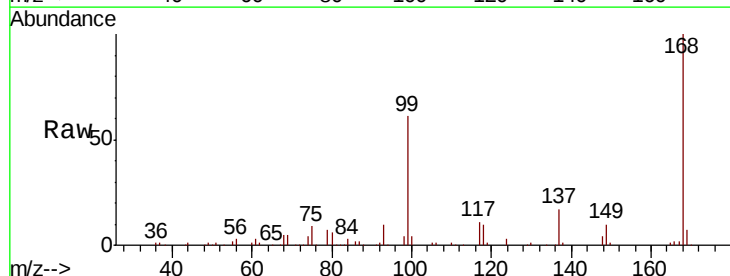
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#05

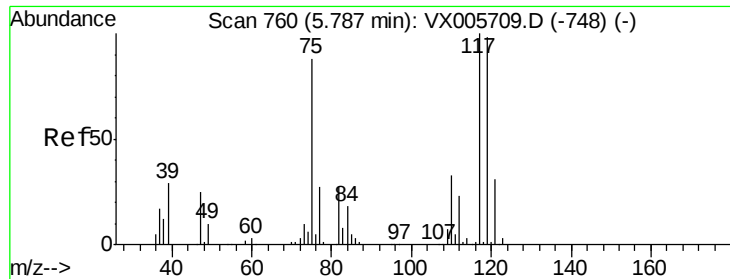
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.3	123.5
192	18.9	17.9	26.9



#36
 1,1-Dichloropropene
 Concen: 4.881 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005754.D
 Acq: 02 Nov 2018 14:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.4	52.2#
77	0.0	25.8	38.6#





#38

Carbon Tetrachloride

Concen: 6.252 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#05

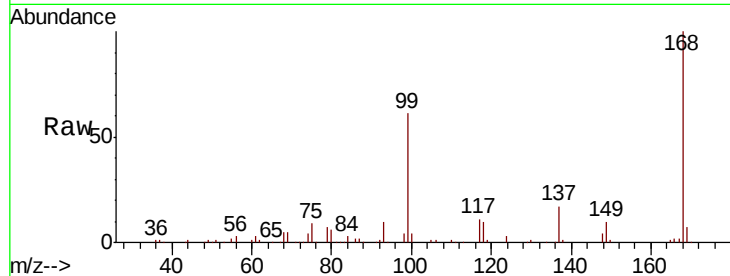
Tot Ion:117 Resp: 11513

Ion Ratio Lower Upper

117 100

119 5.9 78.1 117.1#

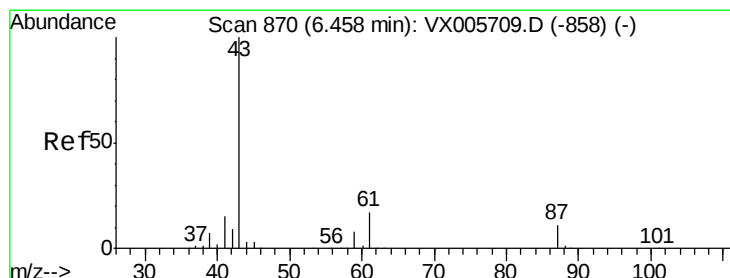
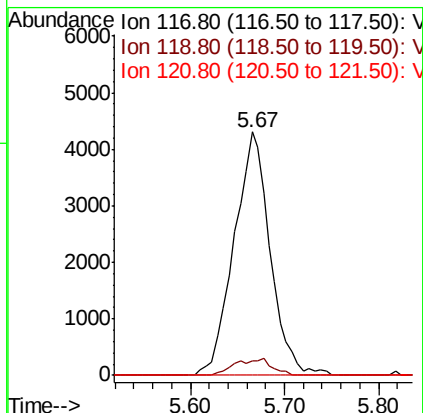
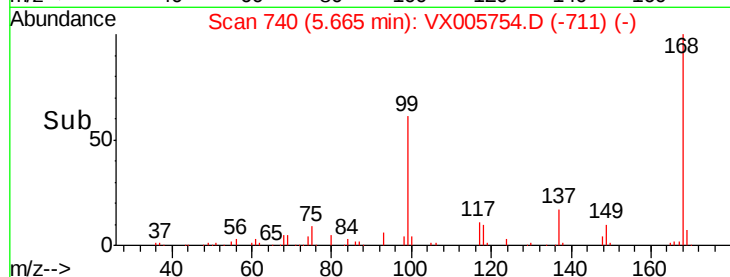
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 26.017 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

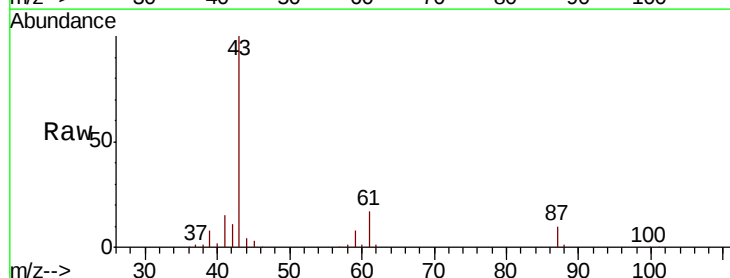
Tgt Ion: 43 Resp: 98195

Ion Ratio Lower Upper

43 100

61 19.1 14.6 22.0

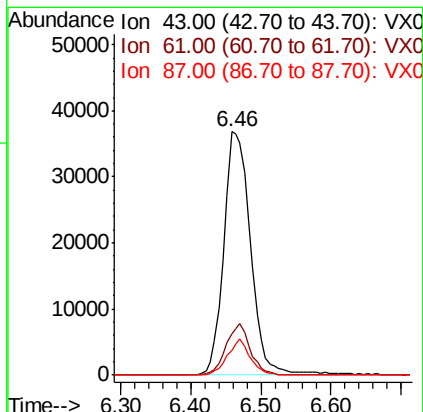
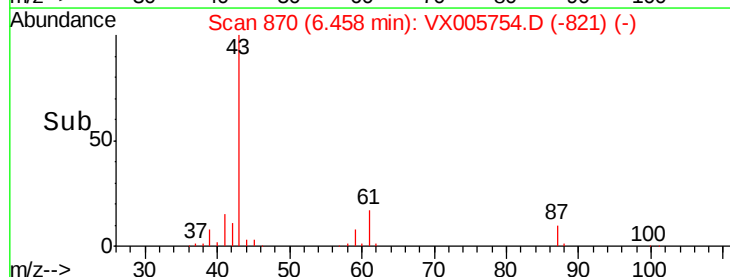
87 12.4 9.6 14.4

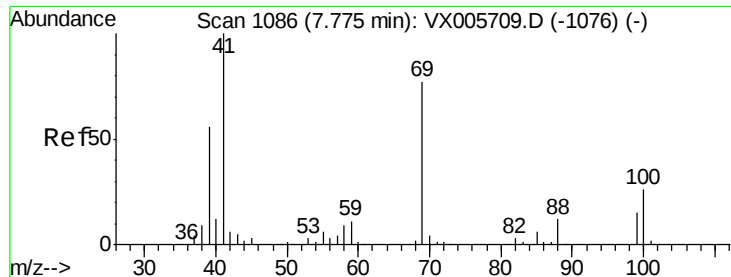


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.762 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#05

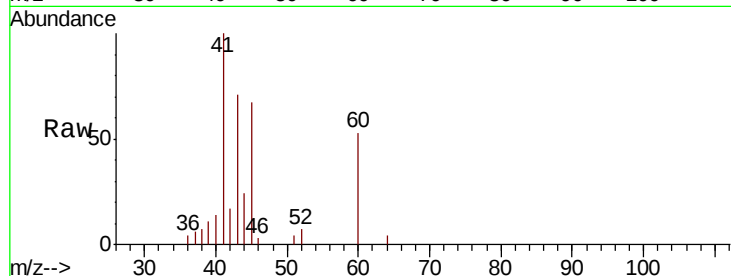
Tot Ion: 41 Resp: 5046

Ion Ratio Lower Upper

41 100

69 0.4 63.2 94.8#

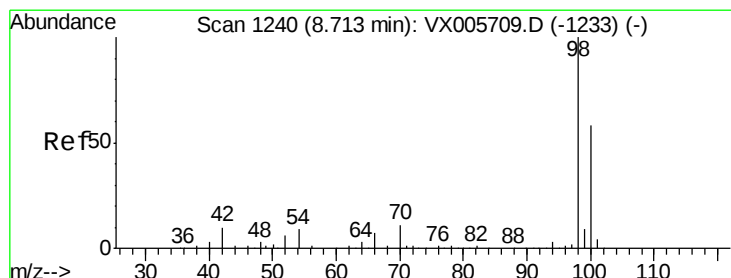
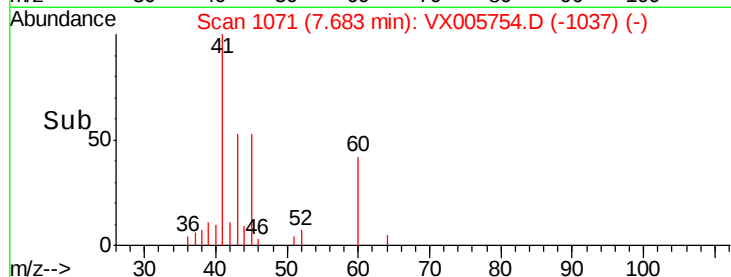
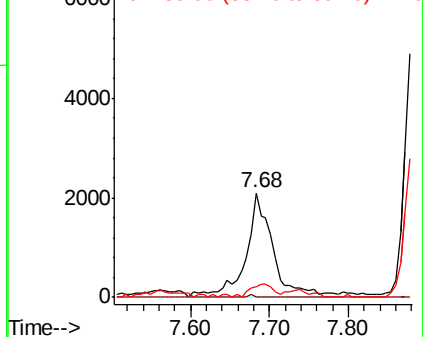
39 10.9 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 50.784 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005754.D

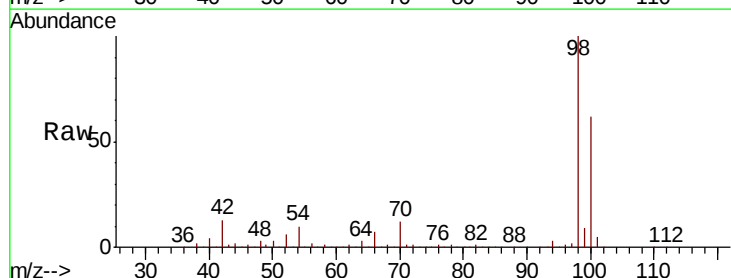
Acq: 02 Nov 2018 14:15

Tgt Ion: 98 Resp: 235942

Ion Ratio Lower Upper

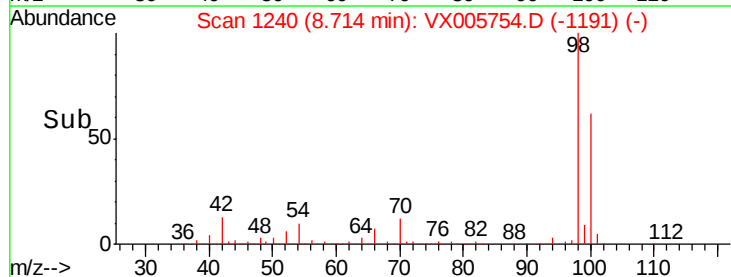
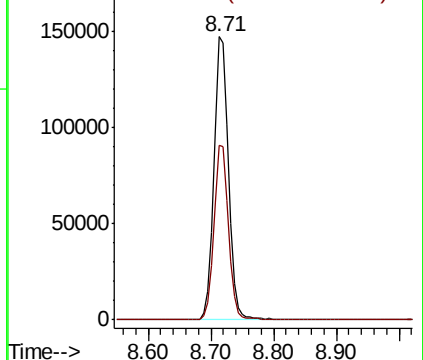
98 100

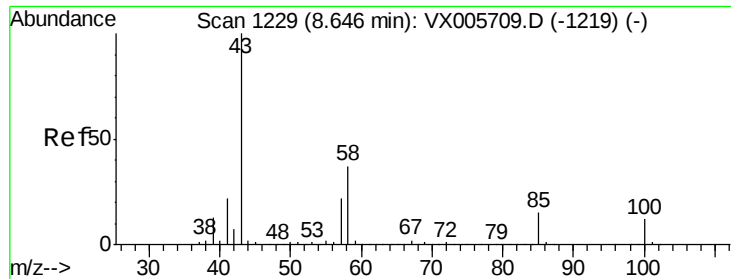
100 61.6 51.3 76.9



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: 0.642 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

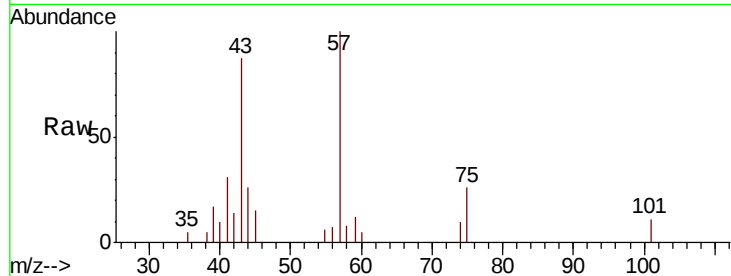
PB114401ZHE#05

Tot Ion: 43 Resp: 1653

Ion Ratio Lower Upper

43 100

58 7.7 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

1000

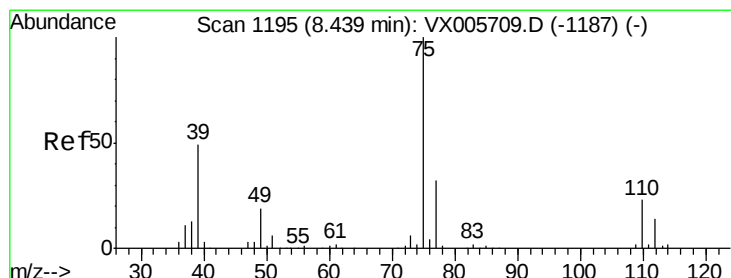
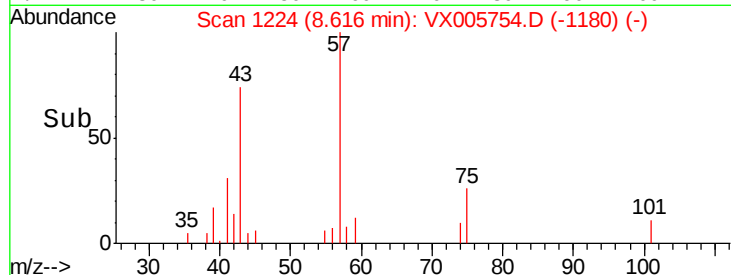
500

0

8.55 8.60 8.65 8.70

8.62

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.249 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

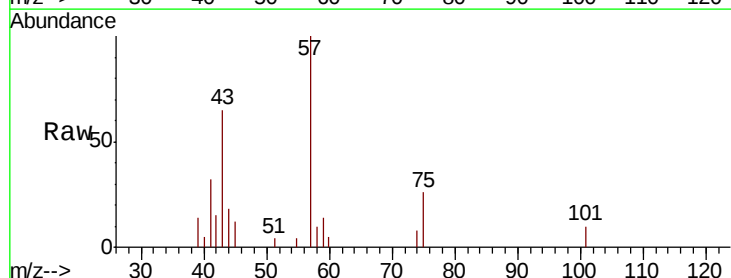
Tgt Ion: 75 Resp: 538

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 55.6 38.2 57.2



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

400

300

200

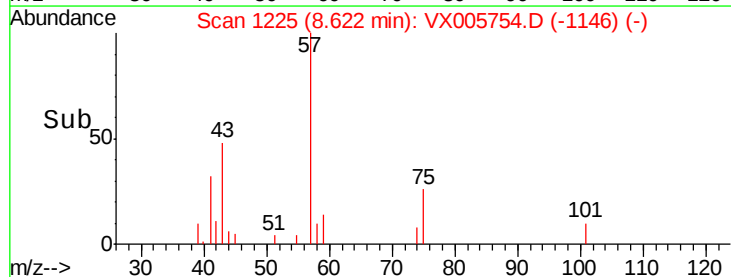
100

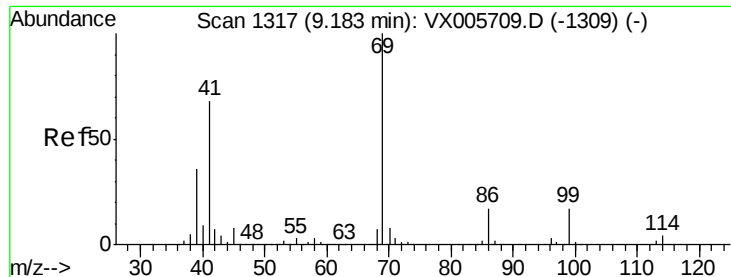
0

8.60 8.65

8.62

Time-->





#56

Ethyl methacrylate

Concen: 2.490 ug/l

RT: 9.00 min Scan# 1287

Delta R.T. -0.18 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#05

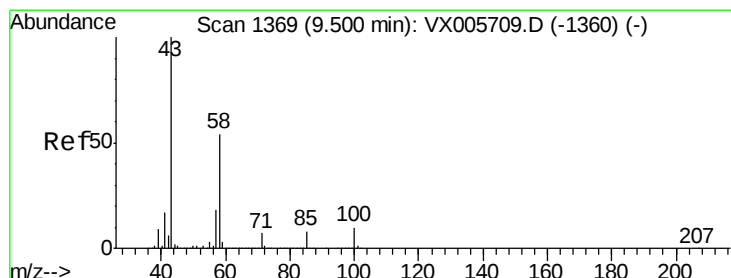
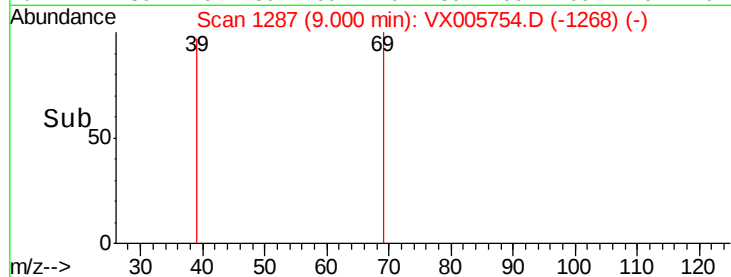
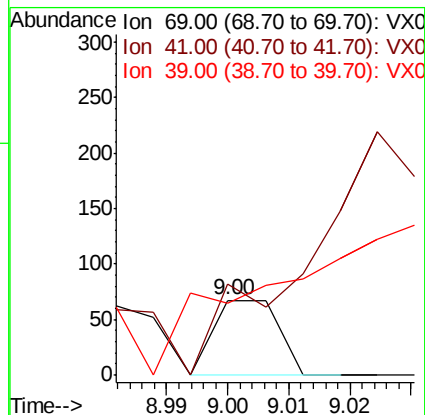
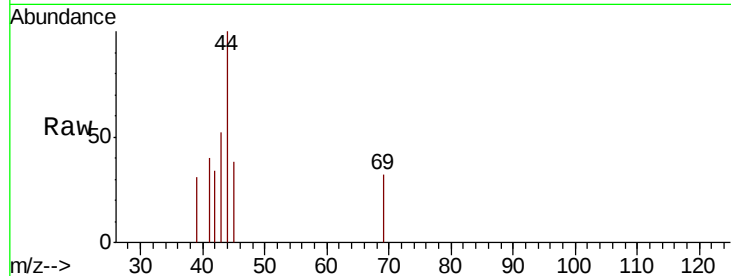
Tot Ion: 69 Resp: 49

Ion Ratio Lower Upper

69 100

41 0.0 57.0 85.6#

39 0.0 28.3 42.5#



#59

2-Hexanone

Concen: 2.615 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX005754.D

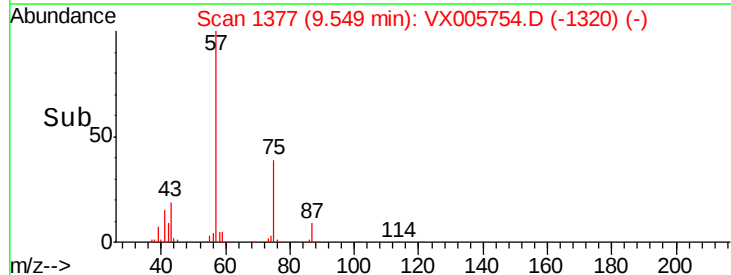
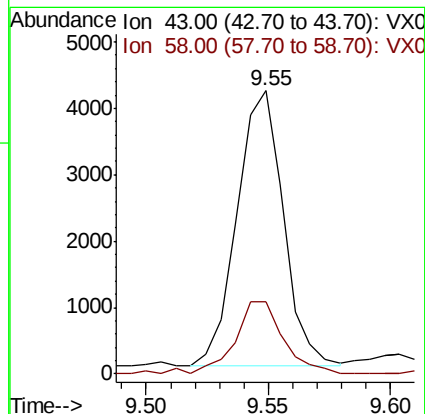
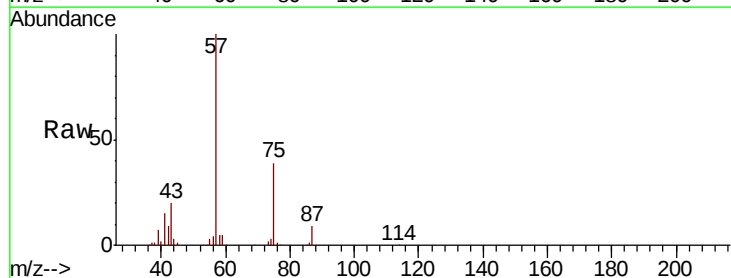
Acq: 02 Nov 2018 14:15

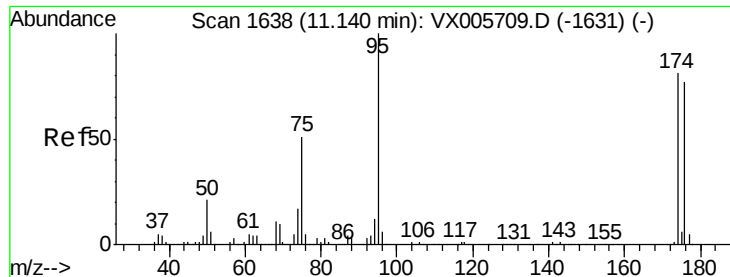
Tgt Ion: 43 Resp: 5476

Ion Ratio Lower Upper

43 100

58 28.1 25.9 77.8





#62

4-Bromofluorobenzene

Concen: 42.603 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#05

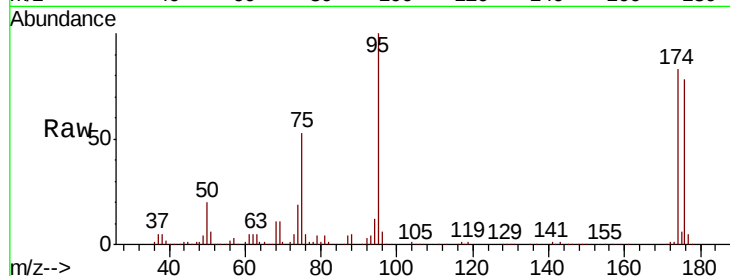
Tot Ion: 95 Resp: 73051

Ion Ratio Lower Upper

95 100

174 80.2 0.0 184.4

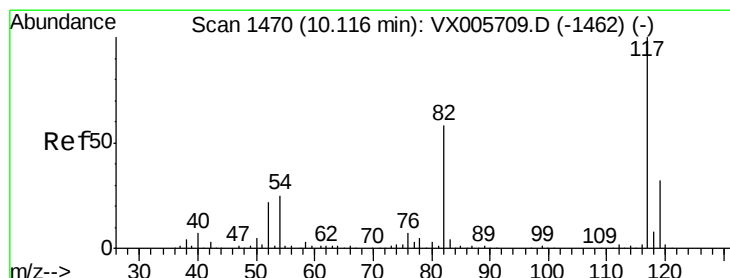
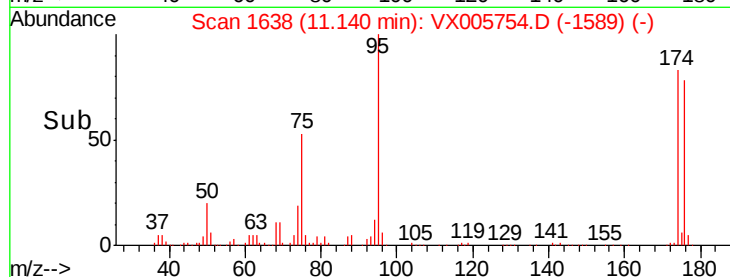
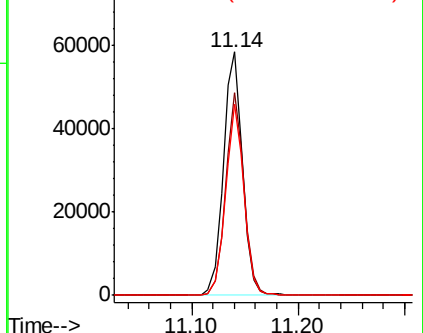
176 76.0 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX005709.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005709.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005709.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005754.D

Acq: 02 Nov 2018 14:15

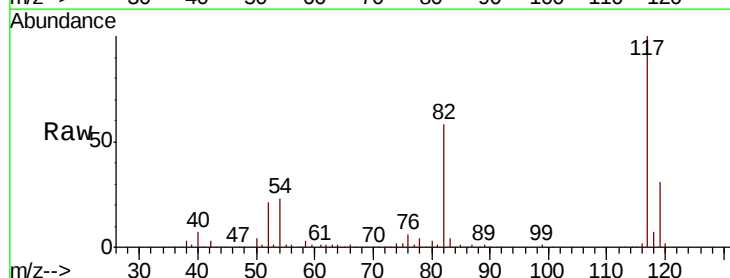
Tgt Ion: 117 Resp: 171541

Ion Ratio Lower Upper

117 100

82 57.7 44.1 66.1

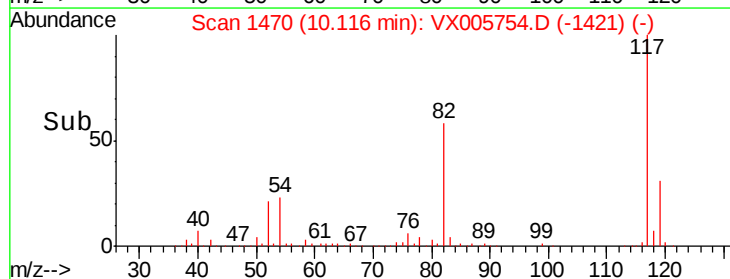
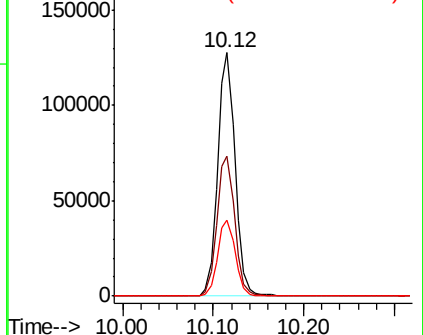
119 31.4 26.2 39.2

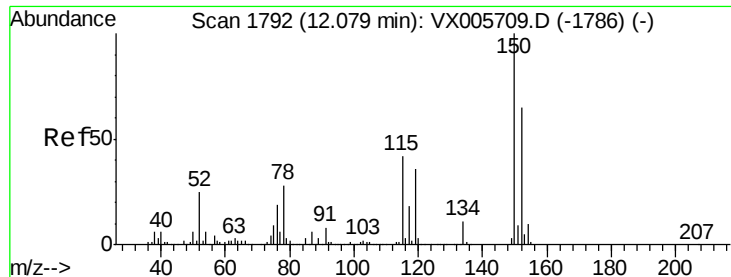


Abundance Ion 116.90 (116.60 to 117.60): VX005709.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005709.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005709.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: VX005754.D

Acq: 02 Nov 2018 14:15

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#05

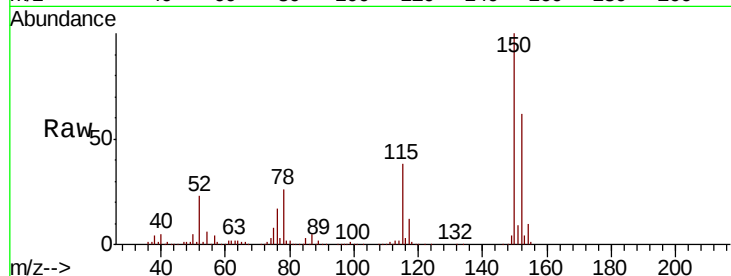
Tot Ion:152 Resp: 71499

Ion Ratio Lower Upper

152 100

115 60.2 39.4 118.1

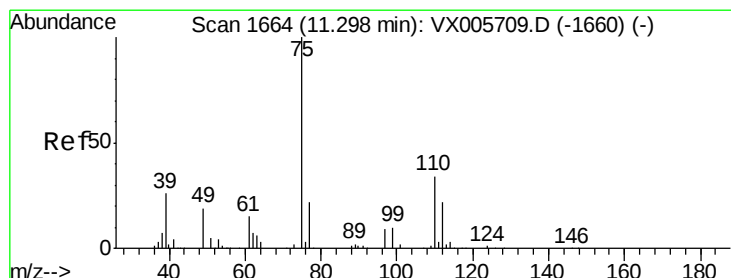
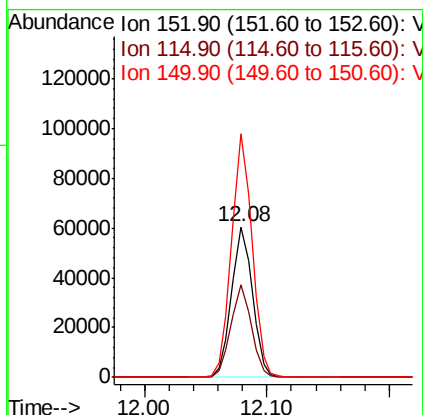
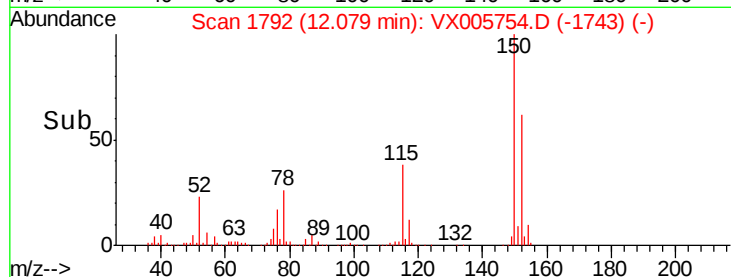
150 158.6 0.0 346.4



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: 21.832 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005754.D

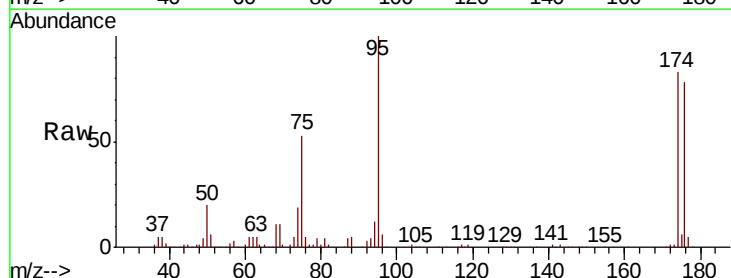
Acq: 02 Nov 2018 14:15

Tgt Ion: 75 Resp: 38878

Ion Ratio Lower Upper

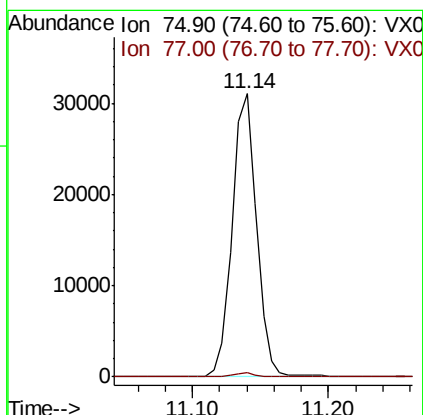
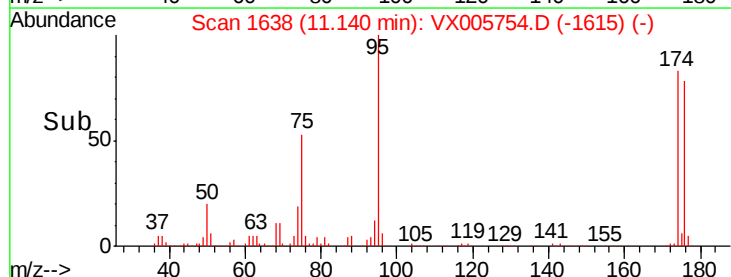
75 100

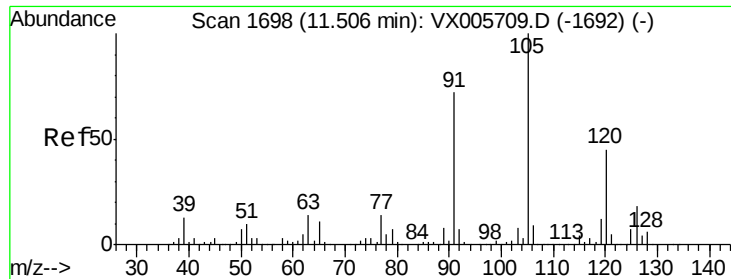
77 1.5 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

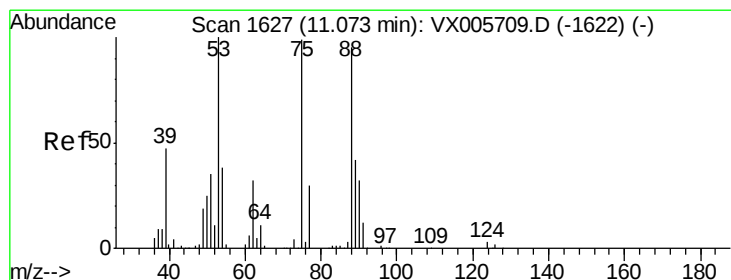
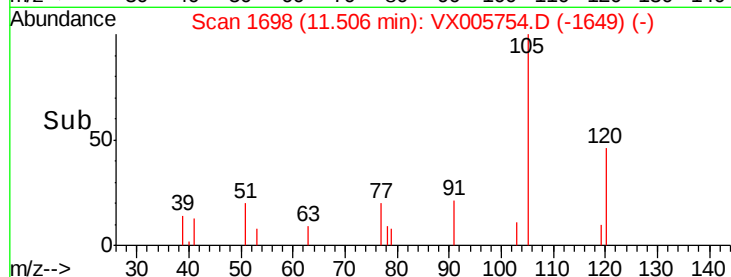
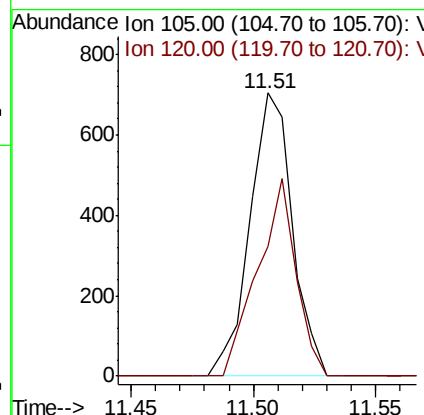
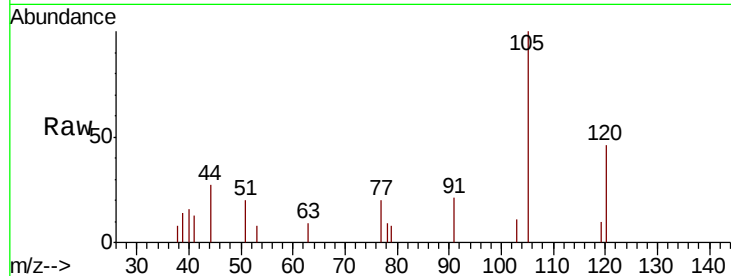




#80
 1,3,5-Trimethylbenzene
 Concen: 0.214 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX005754.D
 Acq: 02 Nov 2018 14:15

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#05

Tot Ion:105 Resp: 856
 Ion Ratio Lower Upper
 105 100
 120 63.0 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.538 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005754.D
 Acq: 02 Nov 2018 14:15

Tgt Ion: 75 Resp: 38878
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.2 120.2#
 89 0.0 39.8 59.8#

