

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005476.D
 Acq On : 22 Oct 2018 17:53
 Operator : JC/MD
 Sample : PB114041ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#06

Quant Time: Oct 23 01:28:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	225930	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	330998	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	306596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143920	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	149508	59.62	ug/l	-0.01
Spiked Amount			Recovery	=	119.24%	
35) Dibromofluoromethane	5.51	113	112414	51.28	ug/l	0.01
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	8.72	98	404857	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
62) 4-Bromofluorobenzene	11.14	95	132225	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	

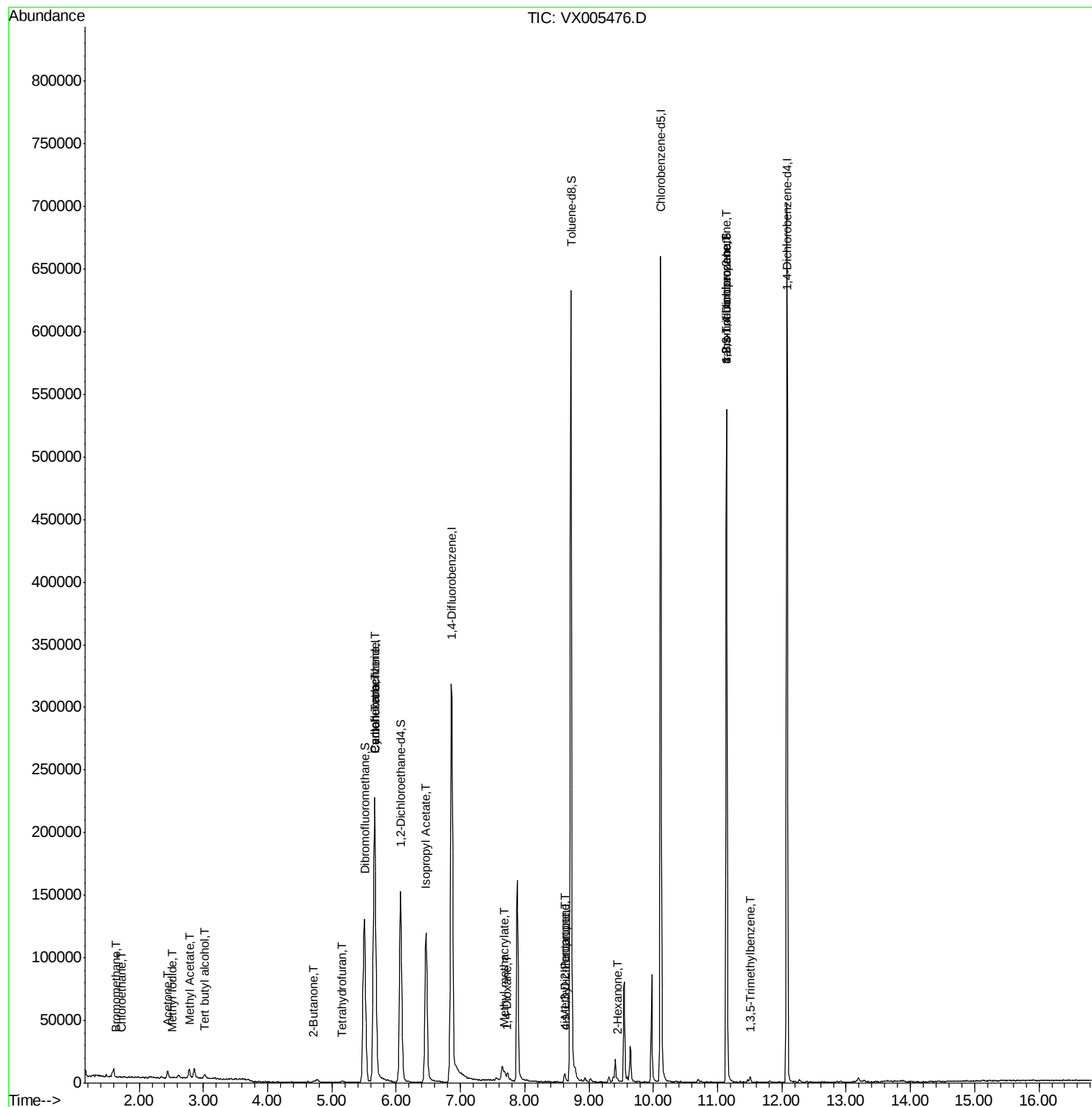
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	322	0.802	ug/l	97
6) Chloroethane	1.72	64	401	0.571	ug/l #	44
10) Methyl Iodide	2.52	142	85	2.526	ug/l #	41
11) Tert butyl alcohol	3.02	59	1992	2.816	ug/l #	75
13) Acrolein	2.32	56	197	Below Cal	#	16
16) Acetone	2.45	43	6562	4.526	ug/l	97
18) Methyl Acetate	2.78	43	8918	2.162	ug/l	98
25) 2-Butanone	4.71	43	1801	0.849	ug/l	98
29) Tetrahydrofuran	5.17	42	977	0.722	ug/l #	80
31) Cyclohexane	5.67	56	4459	1.294	ug/l #	1
38) Carbon Tetrachloride	5.67	117	20138	6.252	ug/l #	15
43) Isopropyl Acetate	6.46	43	163698	29.808	ug/l	95
48) Methyl methacrylate	7.68	41	6317	2.218	ug/l #	21
49) 1,4-Dioxane	7.71	88	20	0.304	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	3134	0.824	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1000	0.296	ug/l #	71
59) 2-Hexanone	9.44	43	1120	0.366	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	67195	24.070	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1720	0.235	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	67195	73.136	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

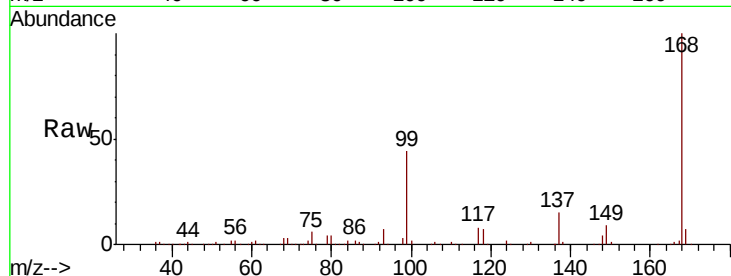
PB114041ZHE#06

Tot Ion:168 Resp: 225930

Ion Ratio Lower Upper

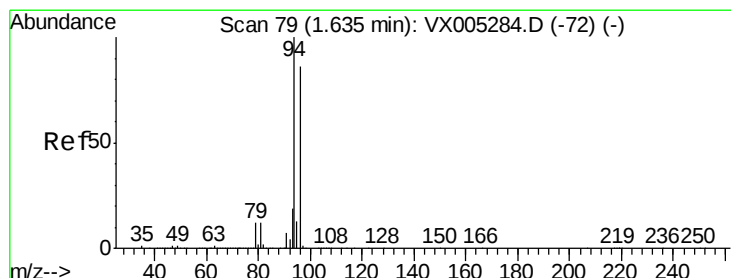
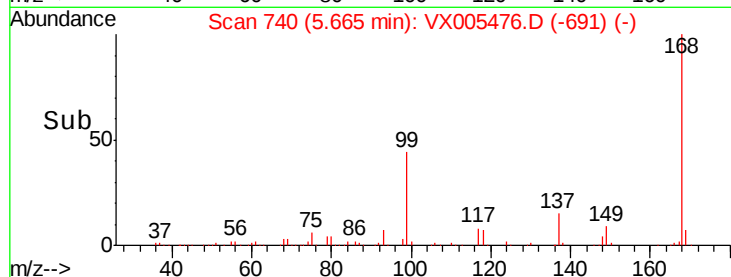
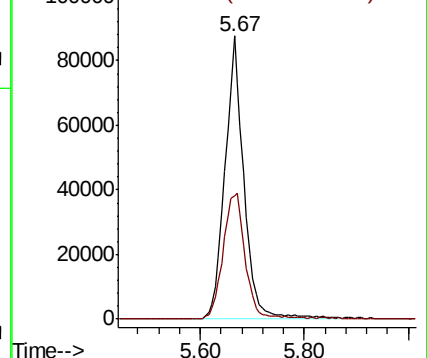
168 100

99 43.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.802 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005476.D

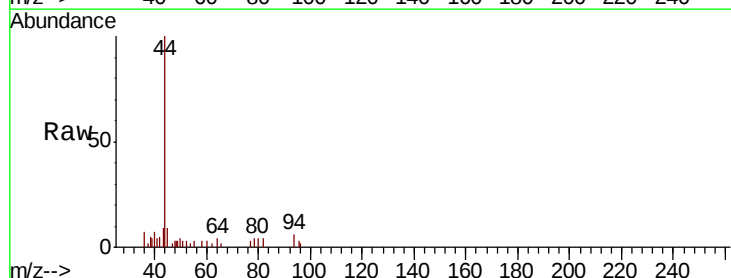
Acq: 22 Oct 2018 17:53

Tgt Ion: 94 Resp: 322

Ion Ratio Lower Upper

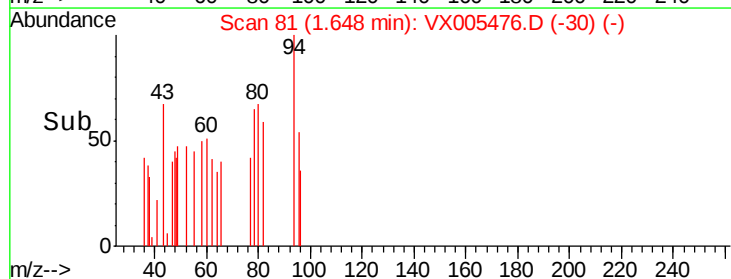
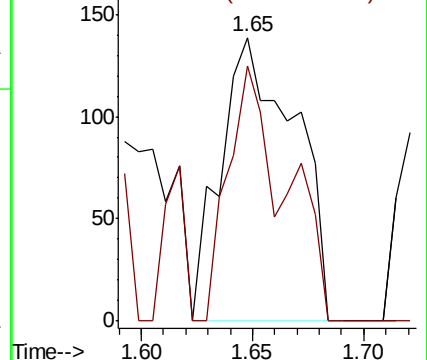
94 100

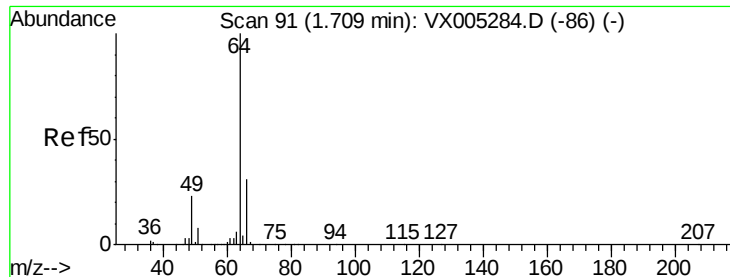
96 89.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.571 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

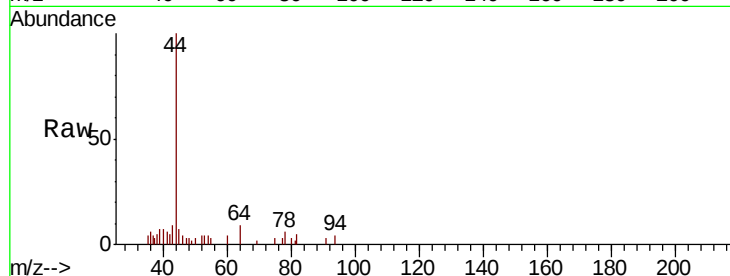
PB114041ZHE#06

Tot Ion: 64 Resp: 401

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

250

200

150

100

50

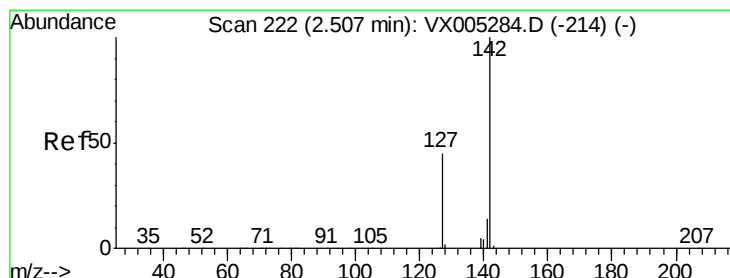
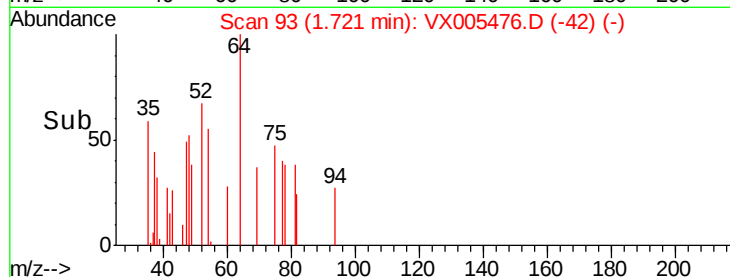
0

1.65

1.70

1.75

Time-->



#10

Methyl Iodide

Concen: 2.526 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

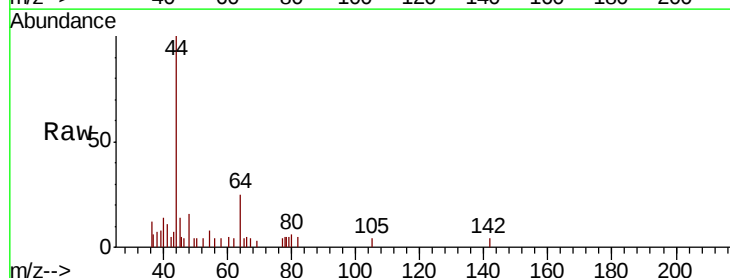
Tgt Ion: 142 Resp: 85

Ion Ratio Lower Upper

142 100

127 0.0 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

80

60

40

20

0

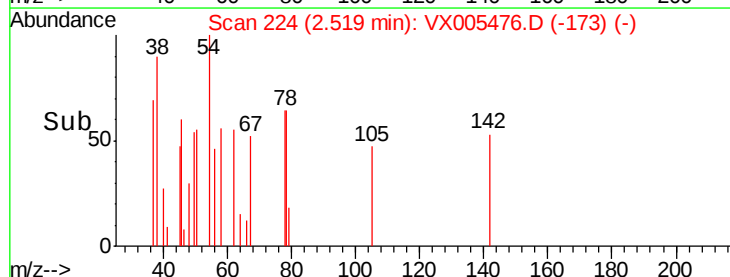
2.48

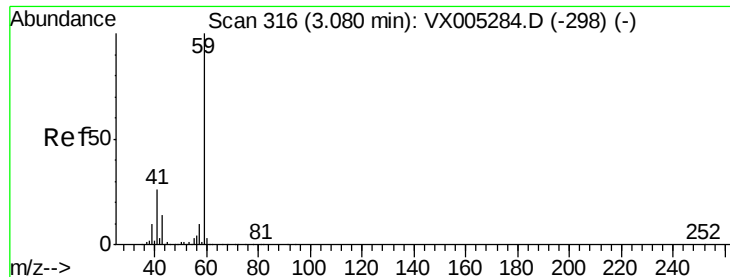
2.50

2.52

2.54

Time-->



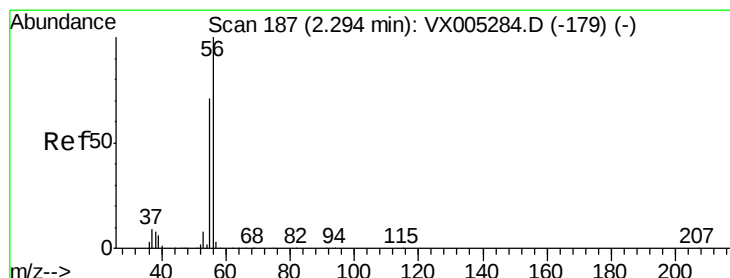
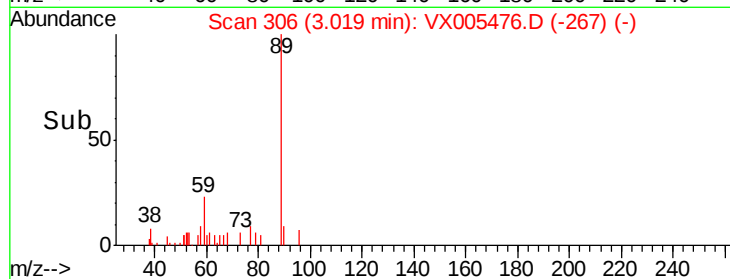
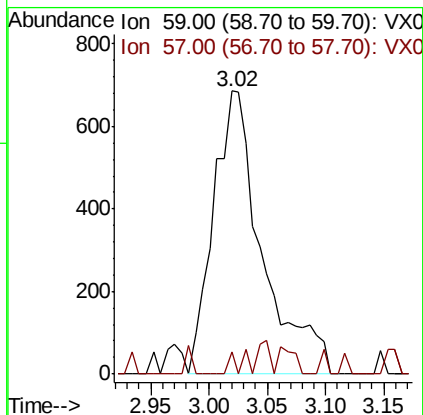
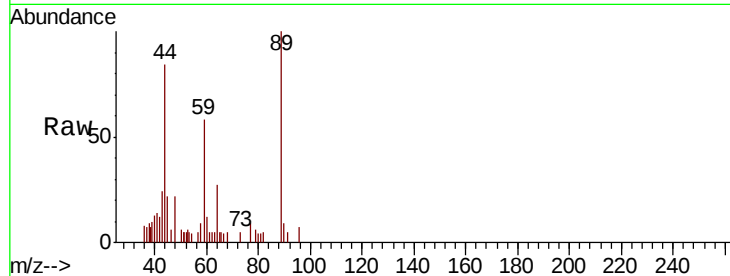


#11

Tert butyl alcohol
 Concen: 2.816 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005476.D
 Acq: 22 Oct 2018 17:53

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#06

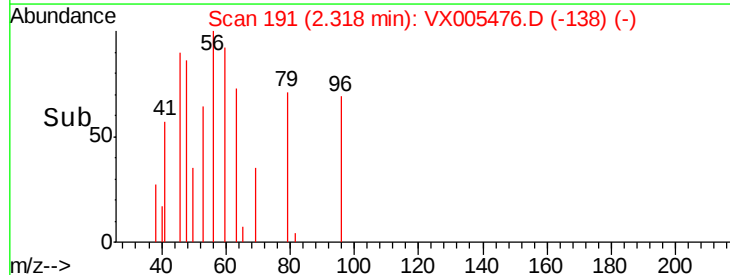
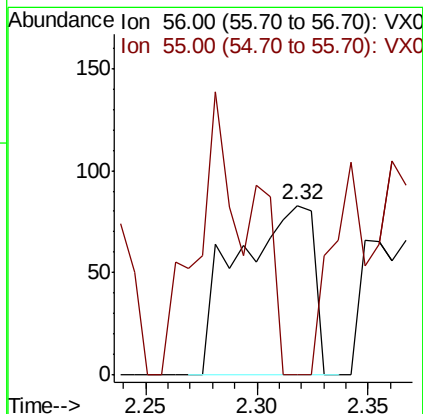
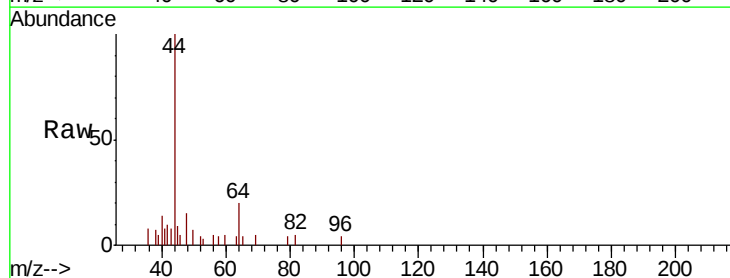
Tot Ion: 59 Resp: 1992
 Ion Ratio Lower Upper
 59 100
 57 1.0 8.2 12.4#

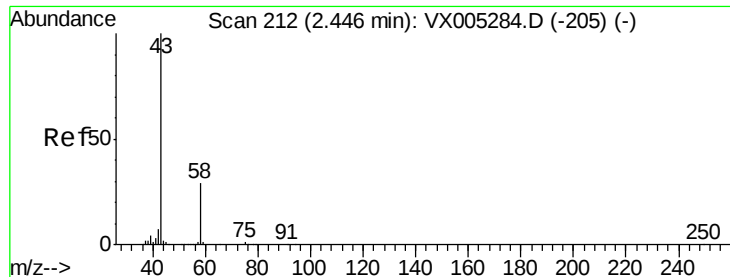


#13

Acrolein
 Concen: Below Cal
 RT: 2.32 min Scan# 191
 Delta R.T. 0.03 min
 Lab File: VX005476.D
 Acq: 22 Oct 2018 17:53

Tgt Ion: 56 Resp: 197
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#





#16

Acetone

Concen: 4.526 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

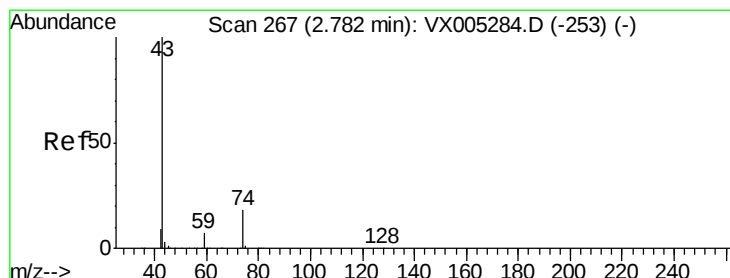
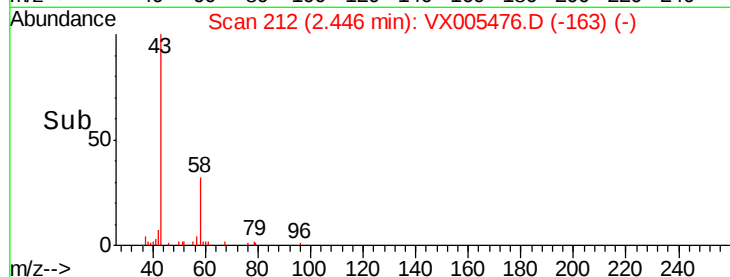
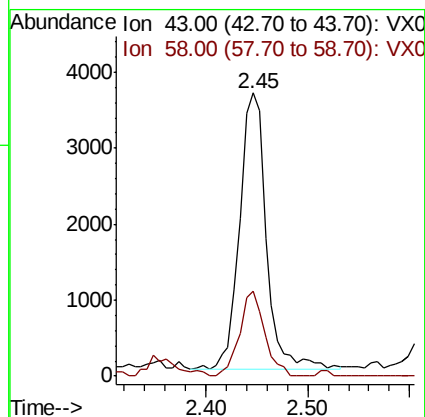
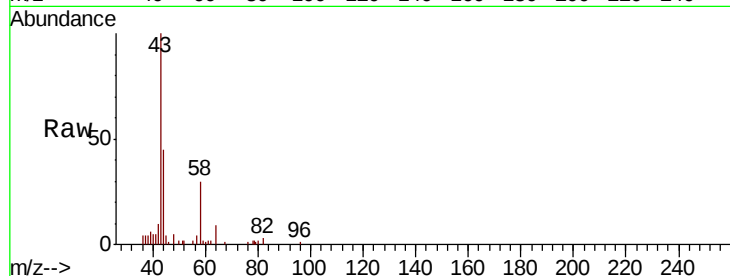
PB114041ZHE#06

Tot Ion: 43 Resp: 6562

Ion Ratio Lower Upper

43 100

58 30.9 26.2 39.4



#18

Methyl Acetate

Concen: 2.162 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005476.D

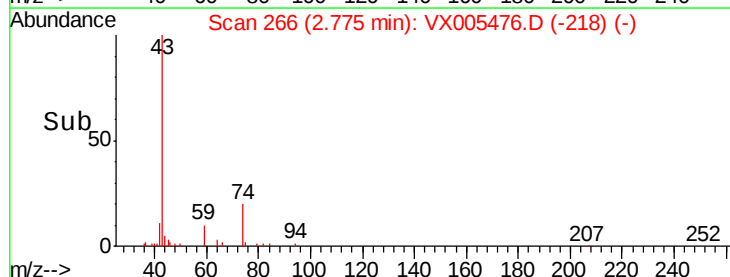
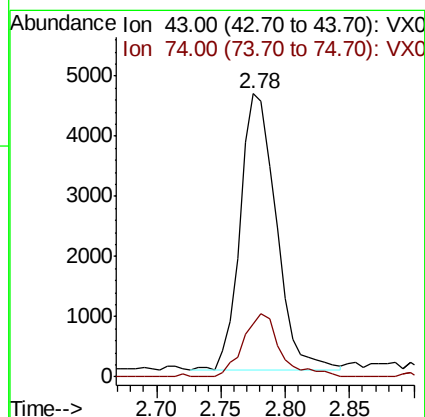
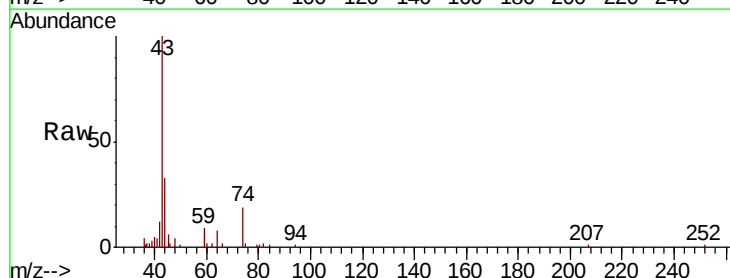
Acq: 22 Oct 2018 17:53

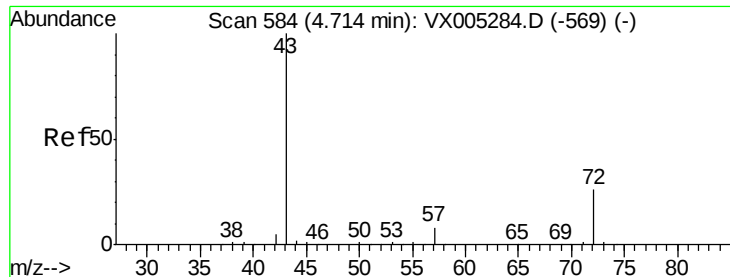
Tgt Ion: 43 Resp: 8918

Ion Ratio Lower Upper

43 100

74 23.5 19.4 29.2





#25

2-Butanone

Concen: 0.849 ug/l

RT: 4.71 min Scan# 584

Delta R.T. -0.00 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

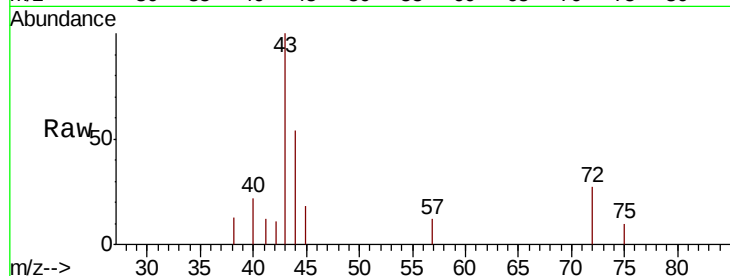
PB114041ZHE#06

Tot Ion: 43 Resp: 1801

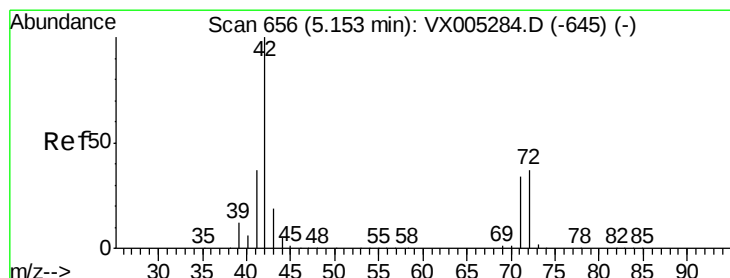
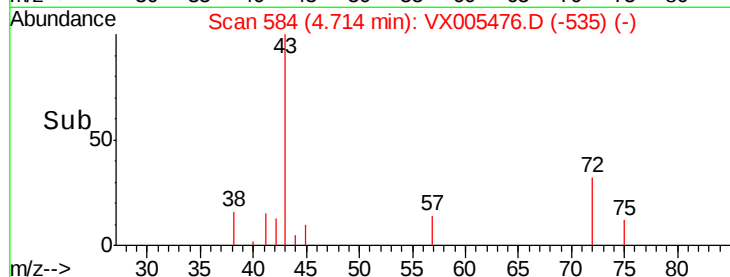
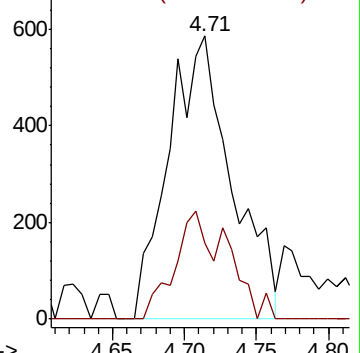
Ion Ratio Lower Upper

43 100

72 26.6 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.722 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

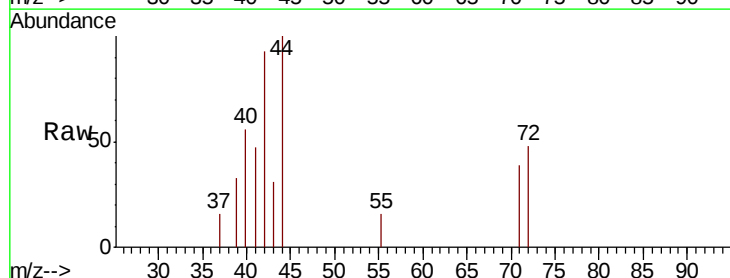
Tgt Ion: 42 Resp: 977

Ion Ratio Lower Upper

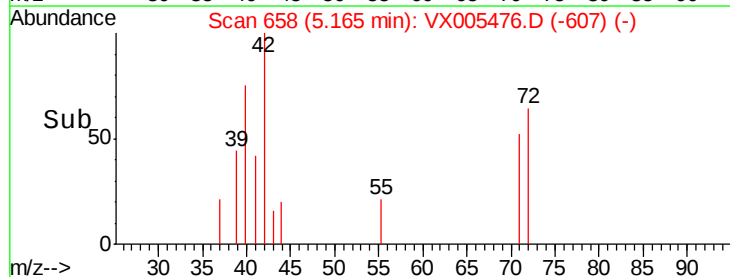
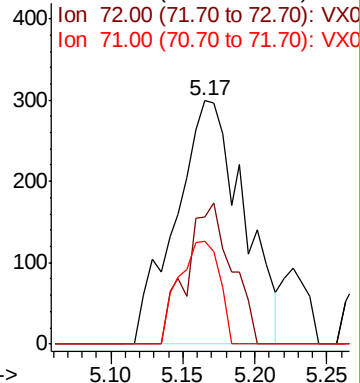
42 100

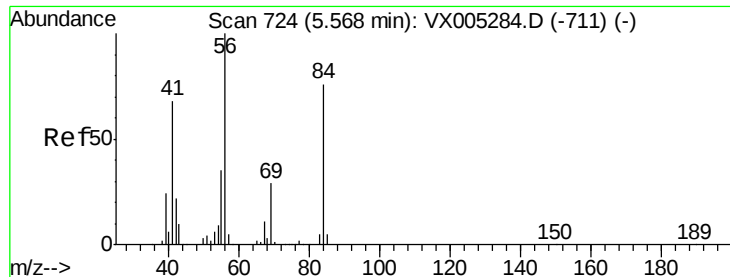
72 38.8 37.4 56.0

71 25.2 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

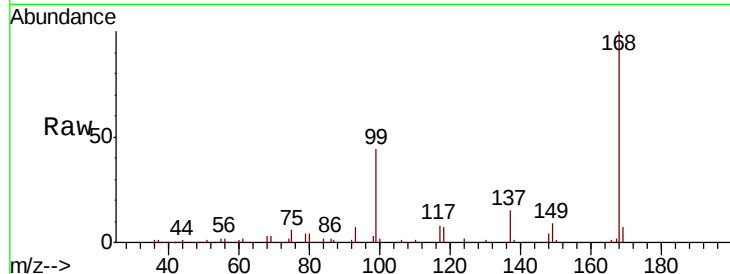




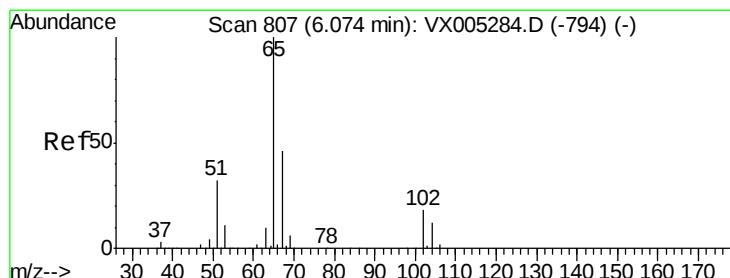
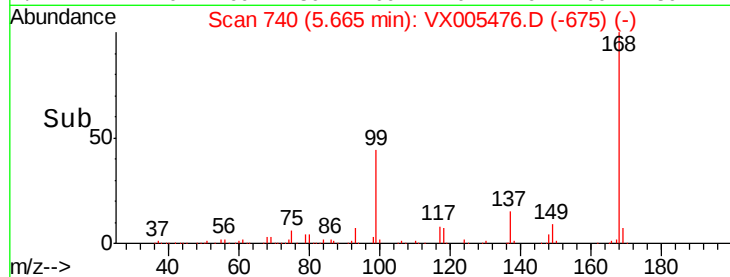
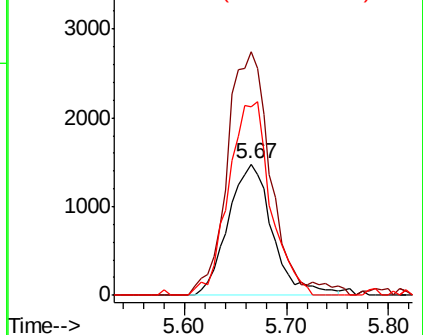
#31
Cyclohexane
Concen: 1.294 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005476.D
Acq: 22 Oct 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :
PB114041ZHE#06

Tot Ion: 56 Resp: 4459
Ion Ratio Lower Upper
56 100
69 185.7 25.4 38.2#
84 143.9 71.4 107.2#

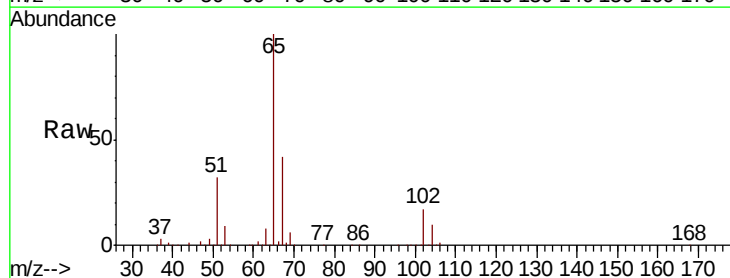


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

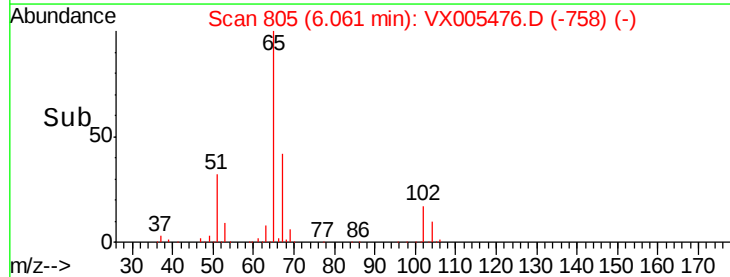
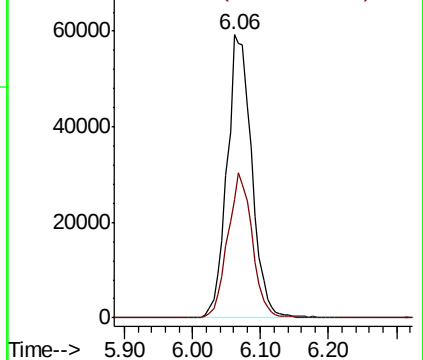


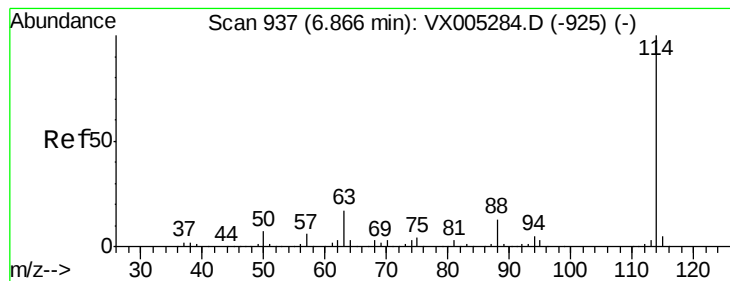
#33
1,2-Dichloroethane-d4
Concen: 59.625 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX005476.D
Acq: 22 Oct 2018 17:53

Tgt Ion: 65 Resp: 149508
Ion Ratio Lower Upper
65 100
67 50.9 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: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#06

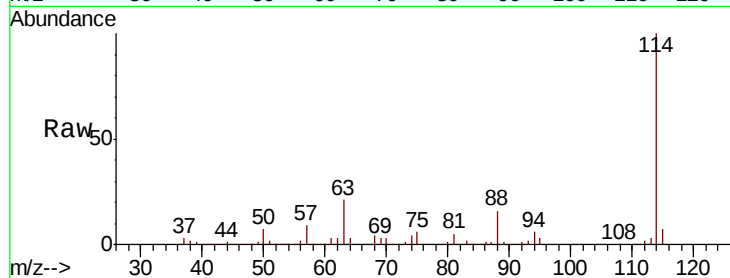
Tot Ion:114 Resp: 330998

Ion Ratio Lower Upper

114 100

63 21.4 0.0 39.0

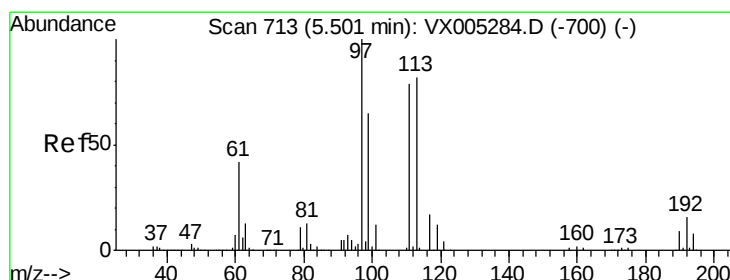
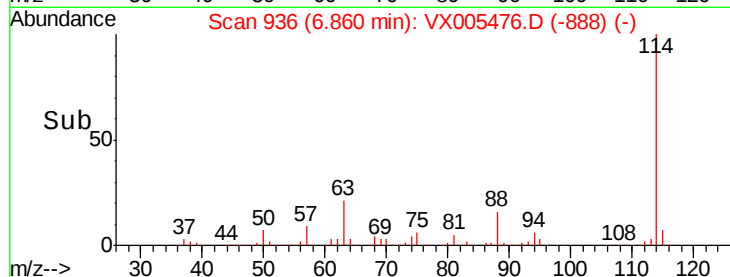
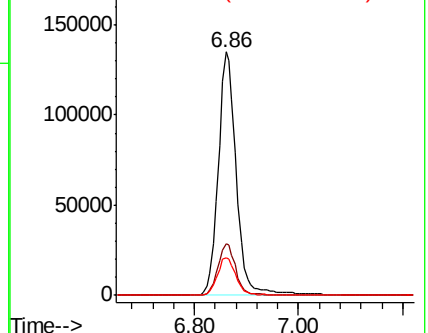
88 15.7 0.0 30.4



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: 51.277 ug/l

RT: 5.51 min Scan# 715

Delta R.T. 0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

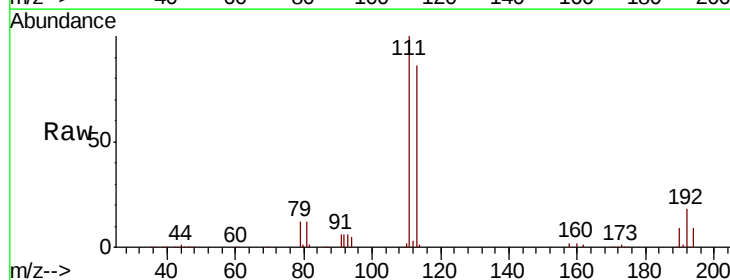
Tgt Ion:113 Resp: 112414

Ion Ratio Lower Upper

113 100

111 104.1 82.4 123.6

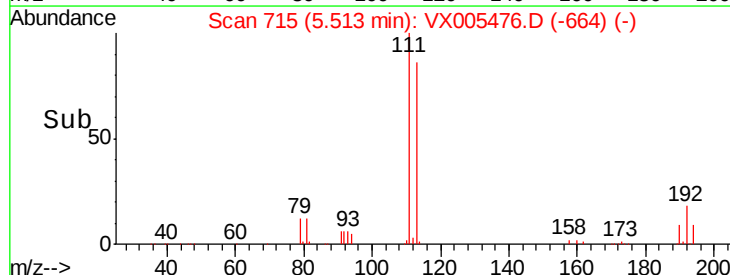
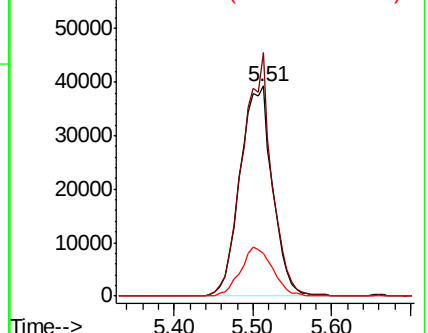
192 22.9 19.4 29.2

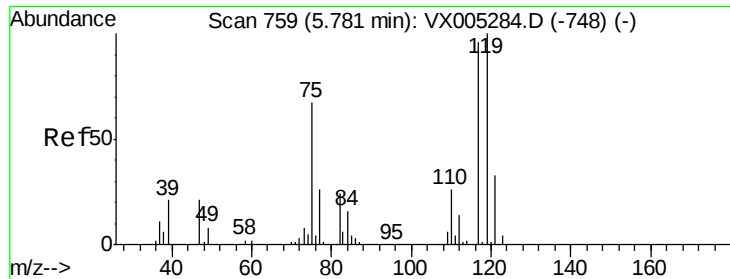


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.252 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#06

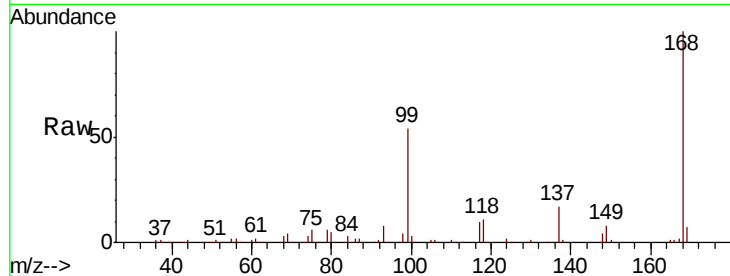
Tot Ion:117 Resp: 20138

Ion Ratio Lower Upper

117 100

119 5.1 78.8 118.2#

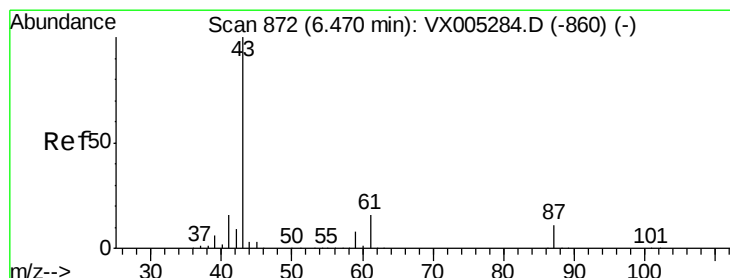
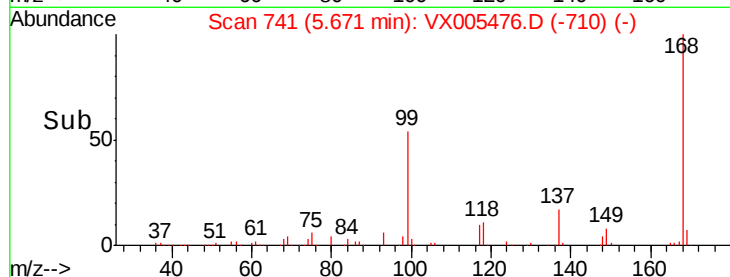
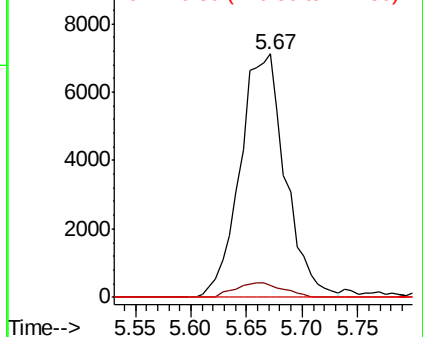
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 29.808 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

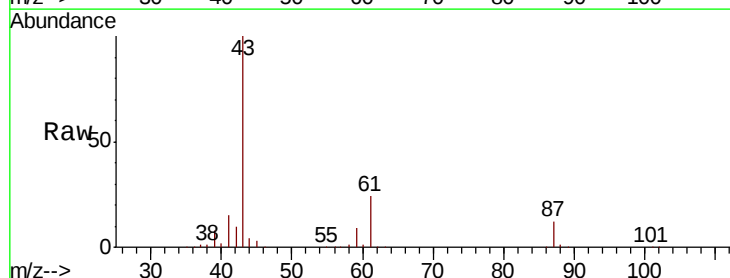
Tgt Ion: 43 Resp: 163698

Ion Ratio Lower Upper

43 100

61 18.9 17.0 25.4

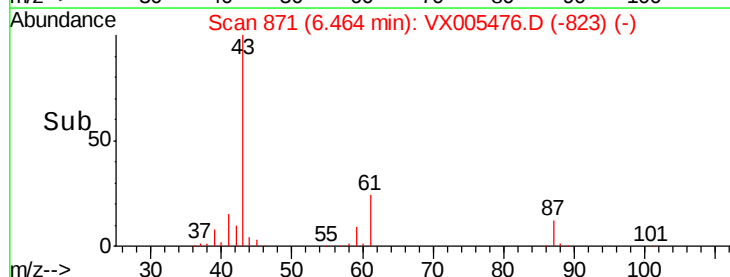
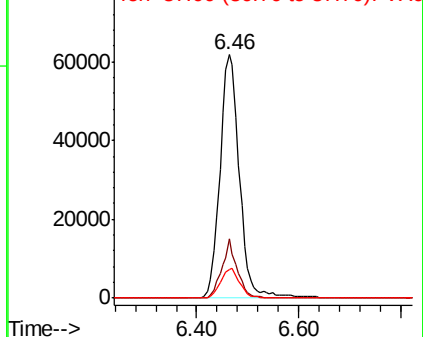
87 11.8 11.4 17.2

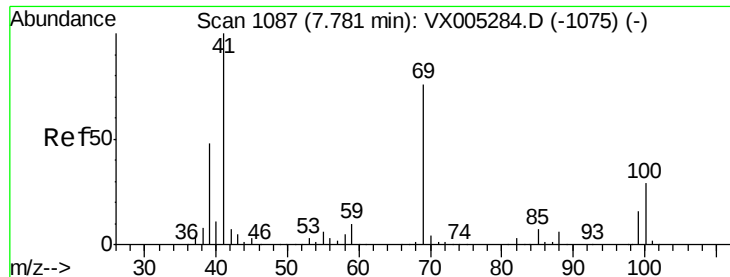


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.218 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#06

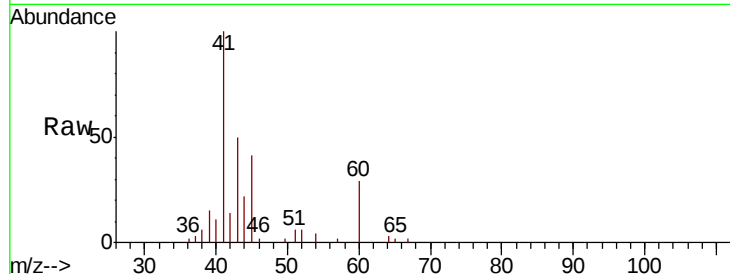
Tot Ion: 41 Resp: 6317

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

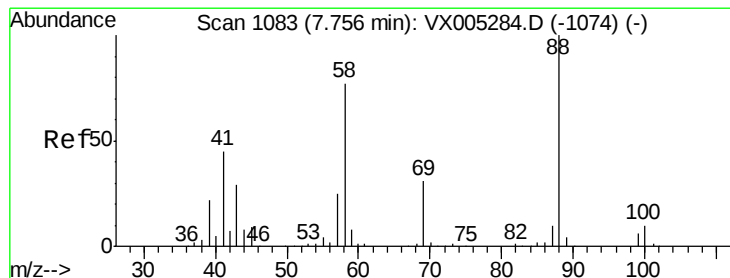
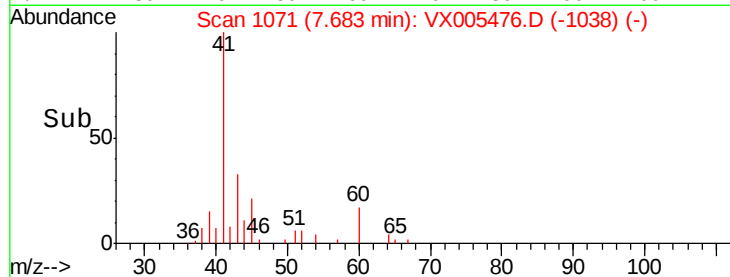
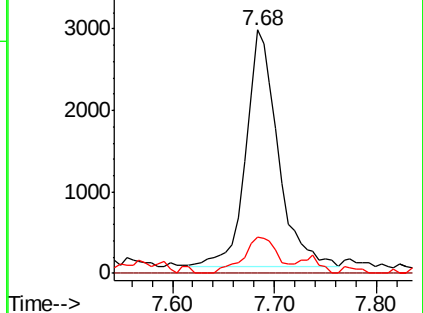
39 16.1 42.7 64.1#



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



#49

1,4-Dioxane

Concen: 0.304 ug/l

RT: 7.71 min Scan# 1076

Delta R.T. -0.04 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

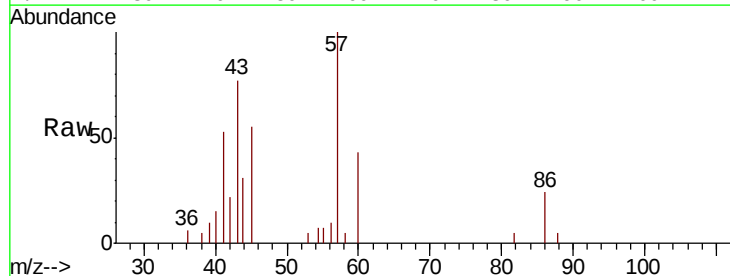
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 24.7 37.1#

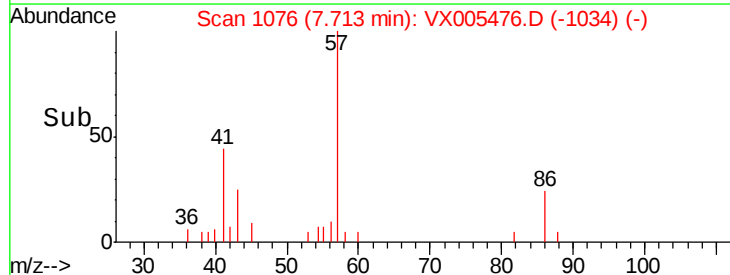
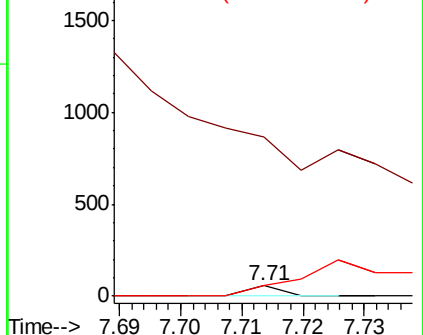
58 1220.0 55.3 82.9#

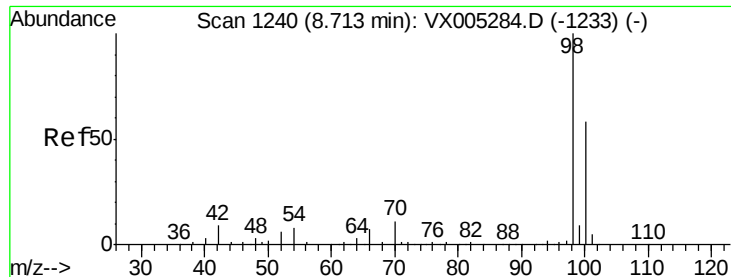


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 53.793 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

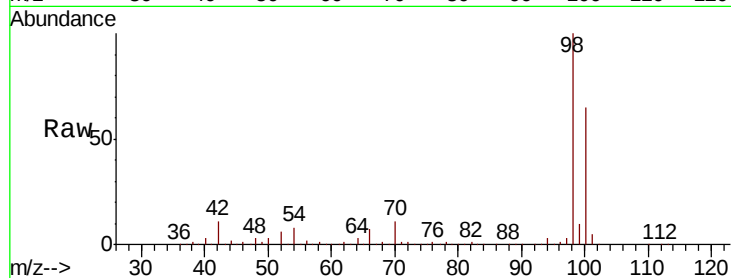
PB114041ZHE#06

Tot Ion: 98 Resp: 404857

Ion Ratio Lower Upper

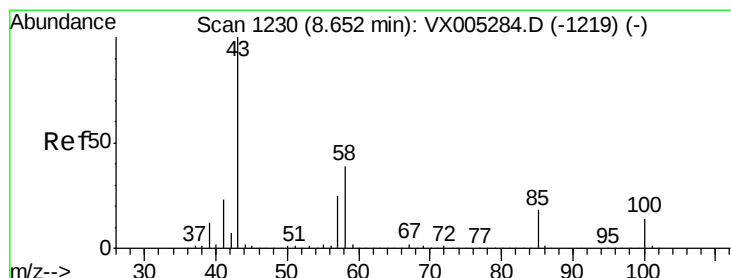
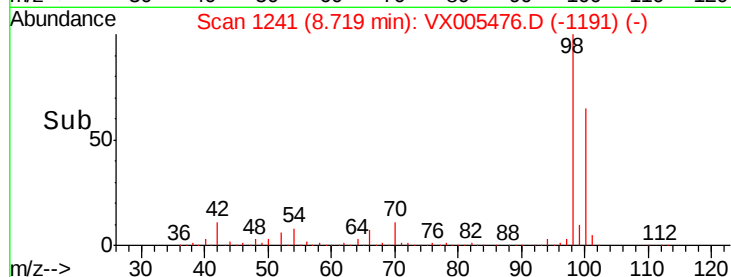
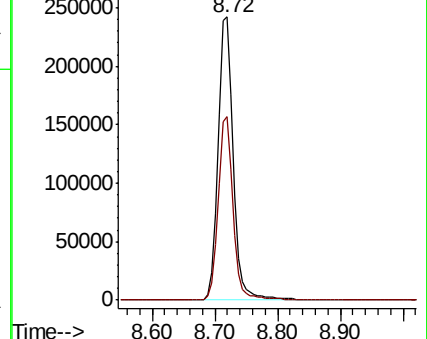
98 100

100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.824 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005476.D

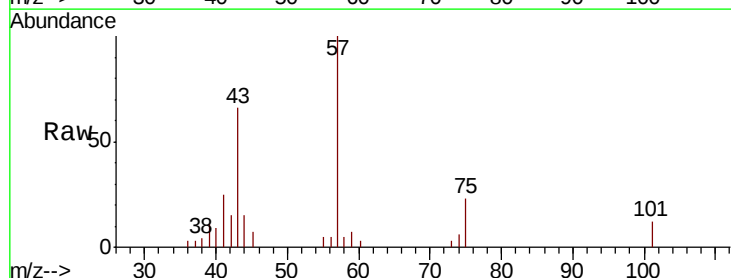
Acq: 22 Oct 2018 17:53

Tgt Ion: 43 Resp: 3134

Ion Ratio Lower Upper

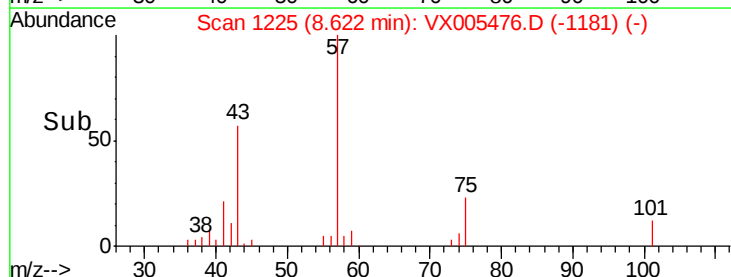
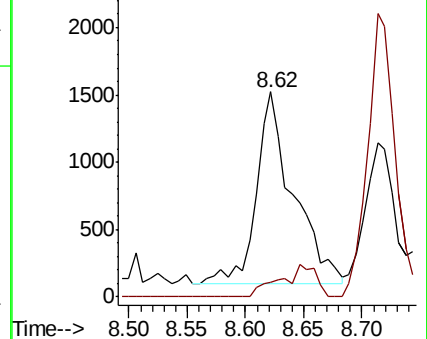
43 100

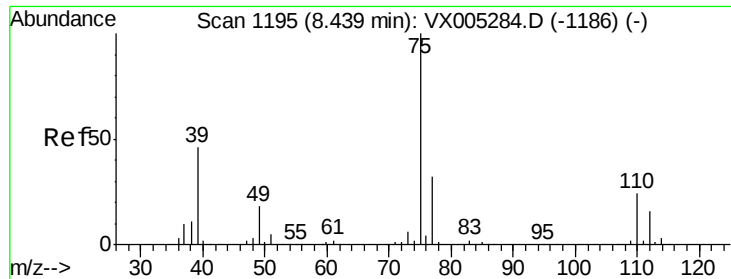
58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



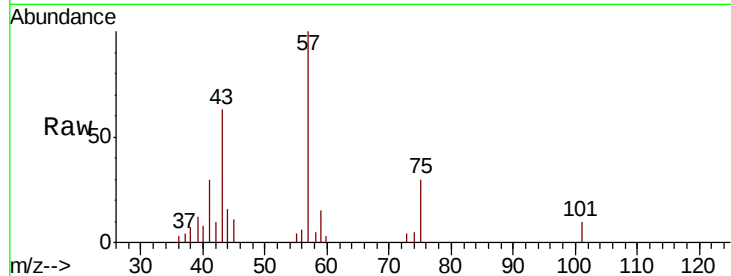


#54

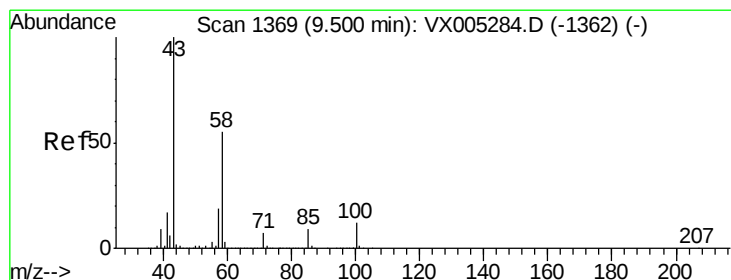
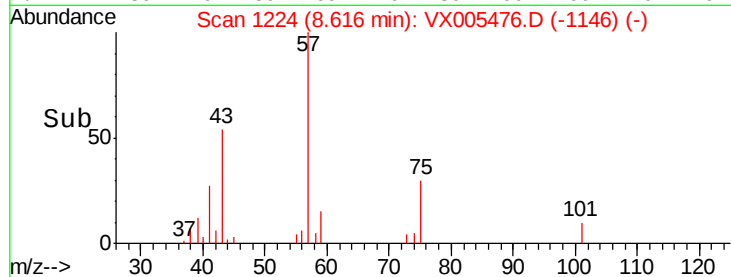
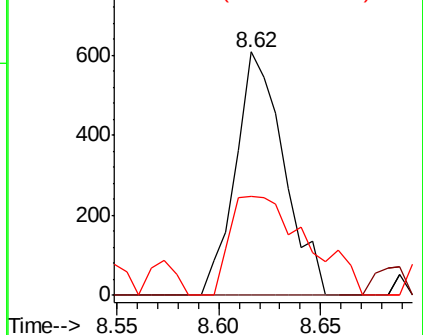
cis-1,3-Dichloropropene
 Concen: 0.296 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005476.D
 Acq: 22 Oct 2018 17:53

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#06

Tot Ion: 75 Resp: 1000
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 40.6 36.4 54.6



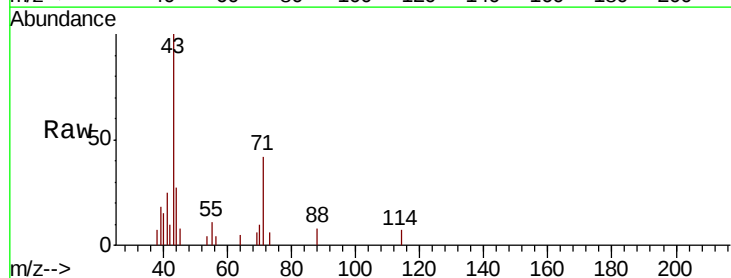
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



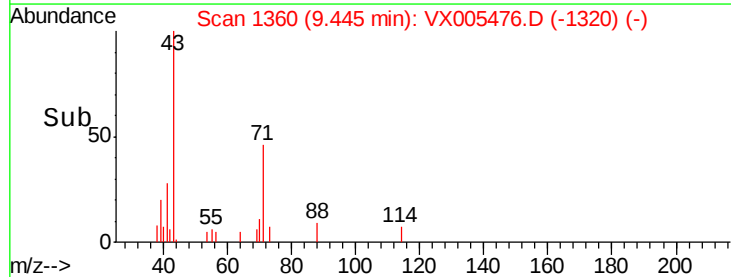
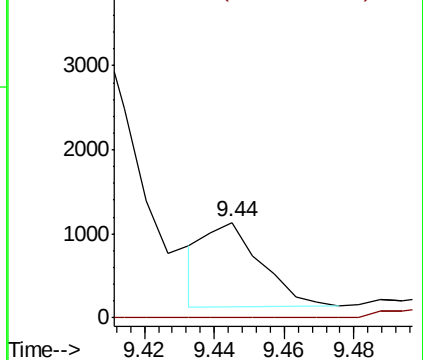
#59

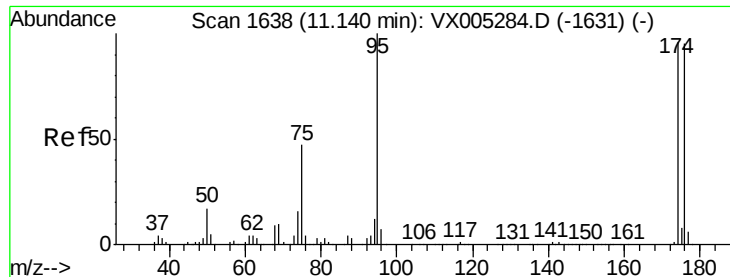
2-Hexanone
 Concen: 0.366 ug/l
 RT: 9.44 min Scan# 1360
 Delta R.T. -0.05 min
 Lab File: VX005476.D
 Acq: 22 Oct 2018 17:53

Tgt Ion: 43 Resp: 1120
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.767 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#06

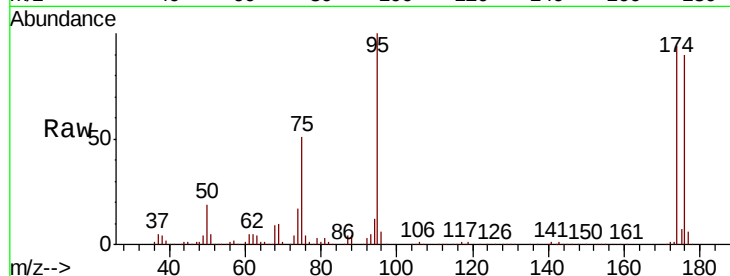
Tot Ion: 95 Resp: 132225

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.2

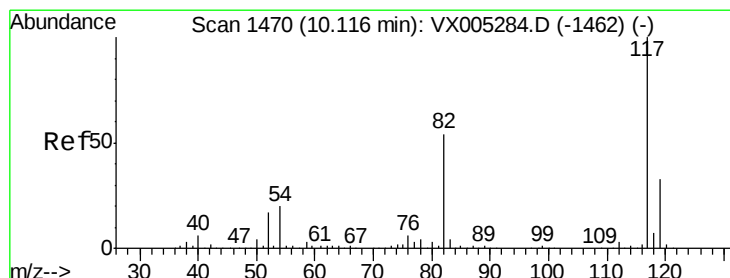
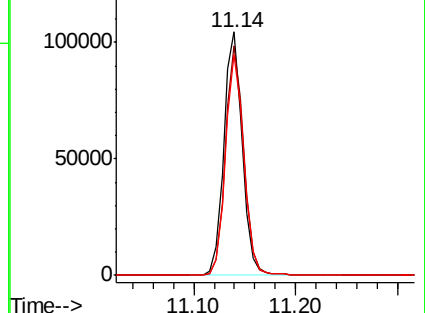
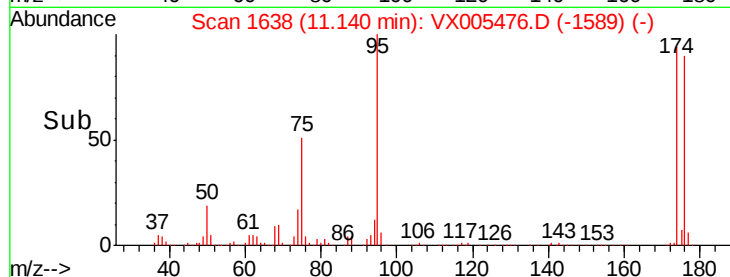
176 89.7 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005476.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005476.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005476.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

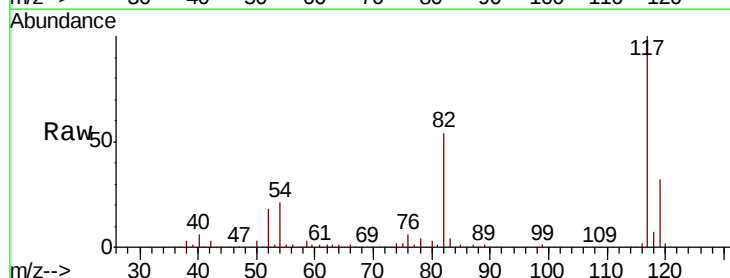
Tgt Ion: 117 Resp: 306596

Ion Ratio Lower Upper

117 100

82 54.0 47.8 71.6

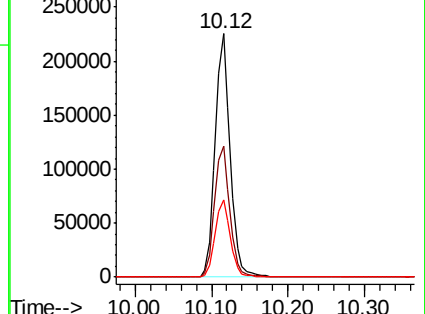
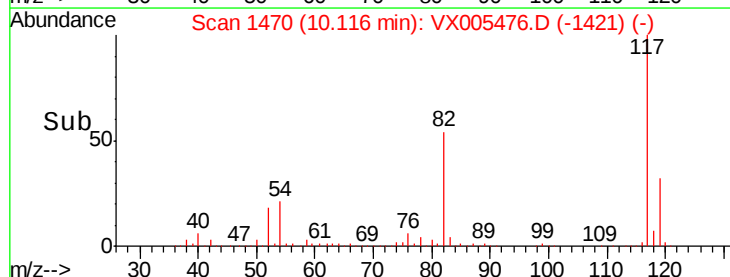
119 31.7 29.3 43.9

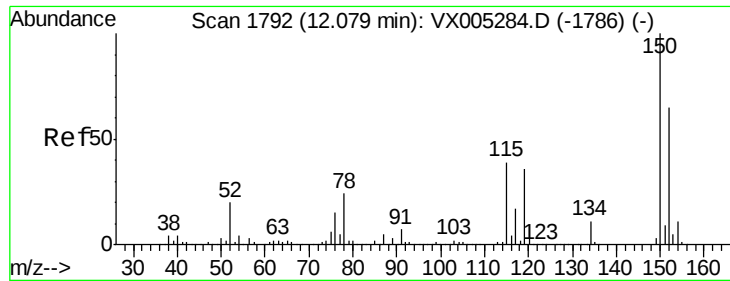


Abundance Ion 116.90 (116.60 to 117.60): VX005476.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005476.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005476.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005476.D

Acq: 22 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114041ZHE#06

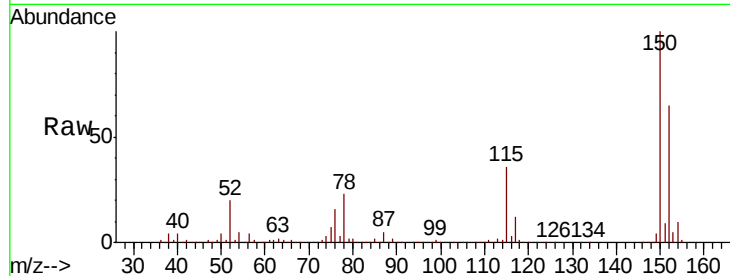
Tot Ion:152 Resp: 143920

Ion Ratio Lower Upper

152 100

115 55.8 39.0 117.0

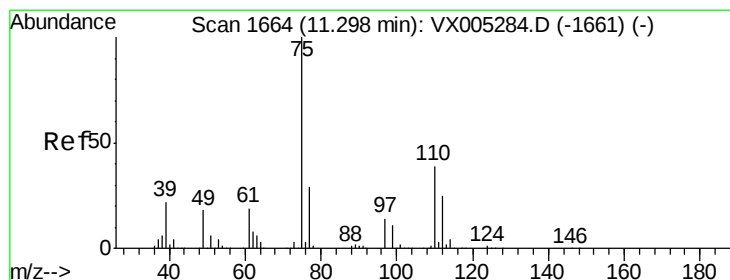
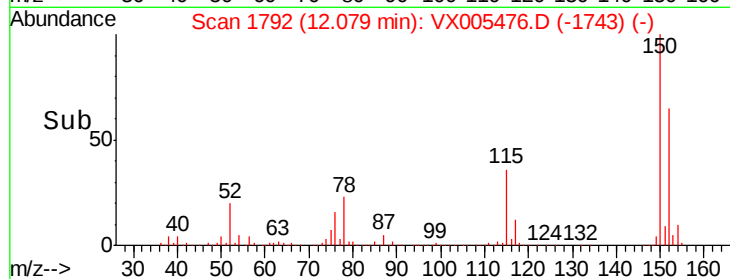
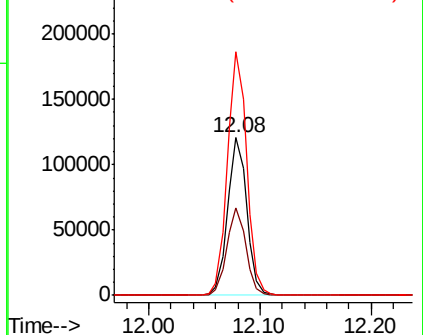
150 155.6 0.0 351.0



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: 24.070 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005476.D

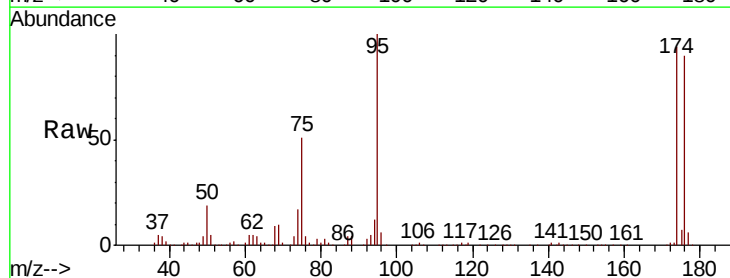
Acq: 22 Oct 2018 17:53

Tgt Ion: 75 Resp: 67195

Ion Ratio Lower Upper

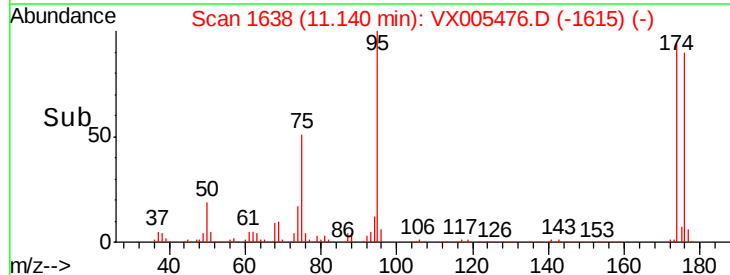
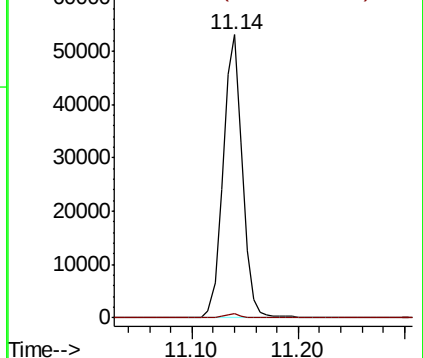
75 100

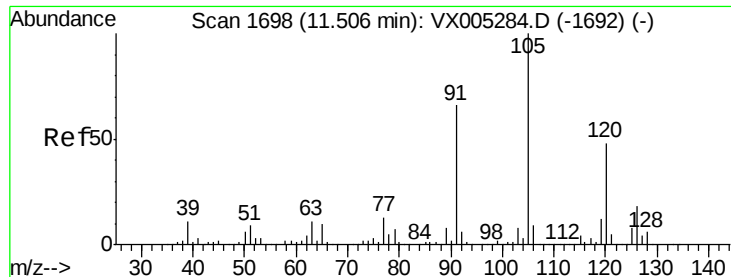
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

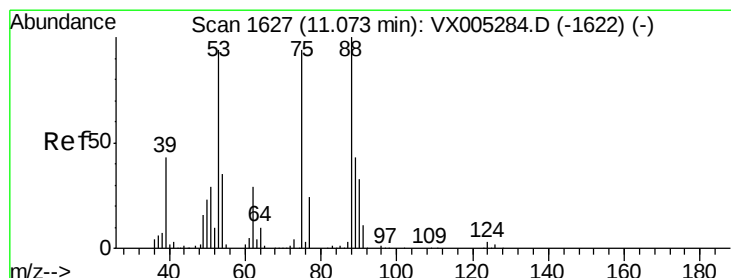
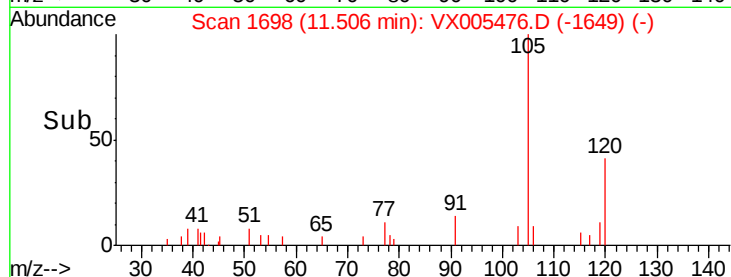
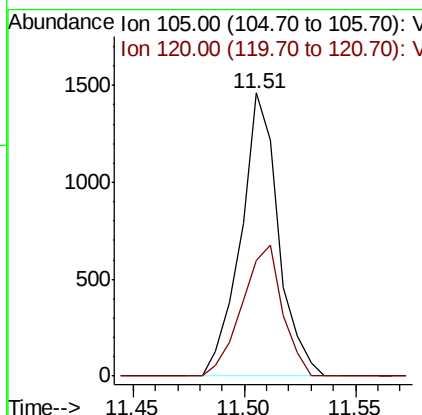
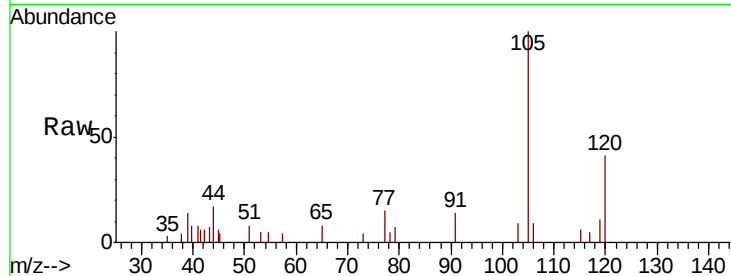




#80
 1,3,5-Trimethylbenzene
 Concen: 0.235 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005476.D
 Acq: 22 Oct 2018 17:53

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114041ZHE#06

Tot Ion:105 Resp: 1720
 Ion Ratio Lower Upper
 105 100
 120 49.7 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.136 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005476.D
 Acq: 22 Oct 2018 17:53

Tgt Ion: 75 Resp: 67195
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#

