

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091118\
 Data File : VX004481.D
 Acq On : 11 Sep 2018 22:21
 Operator : JC/MD
 Sample : PB112748ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112748ZHE#01

Quant Time: Sep 12 05:54:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 15:21:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	184833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	311961	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	296184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	155731	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	134875	56.59	ug/l	0.00
Spiked Amount			Recovery	=	113.18%	
35) Dibromofluoromethane	5.51	113	124287	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	
50) Toluene-d8	8.72	98	441419	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	
62) 4-Bromofluorobenzene	11.14	95	152448	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

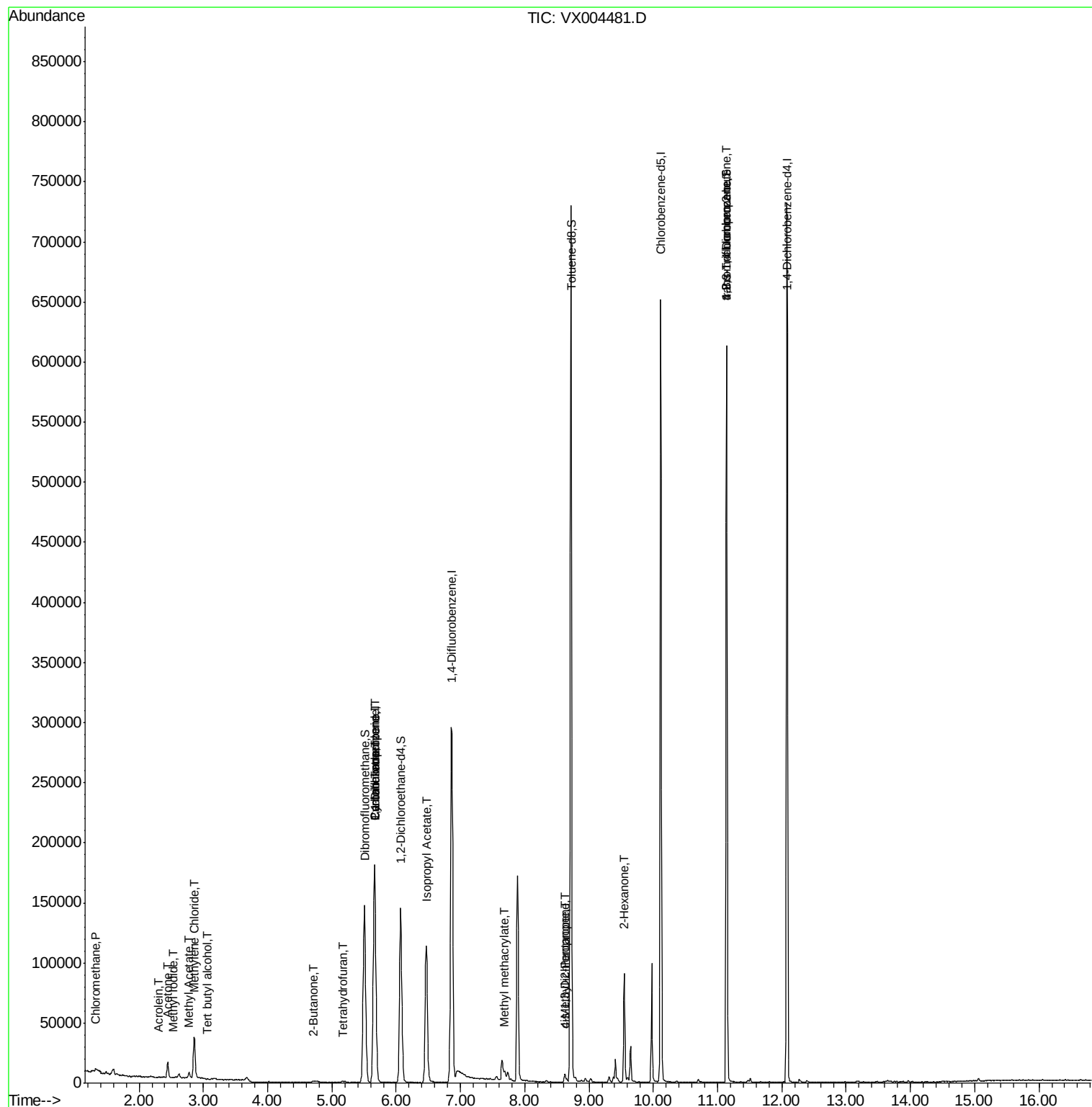
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	778	0.33	ug/l #	83
5) Bromomethane	1.65	94	922	Below Cal		89
10) Methyl Iodide	2.52	142	428	4.42	ug/l #	75
11) Tert butyl alcohol	3.07	59	348	0.61	ug/l #	79
13) Acrolein	2.29	56	166	0.74	ug/l #	1
16) Acetone	2.45	43	13992	12.03	ug/l	94
18) Methyl Acetate	2.78	43	5862	1.80	ug/l	98
20) Methylene Chloride	2.85	84	16151	6.77	ug/l	98
25) 2-Butanone	4.71	43	2924	1.58	ug/l #	88
29) Tetrahydrofuran	5.18	42	1212	1.09	ug/l #	88
31) Cyclohexane	5.66	56	3450	1.00	ug/l #	2
36) 1,1-Dichloropropene	5.66	75	12497	3.30	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16237	4.39	ug/l #	15
43) Isopropyl Acetate	6.47	43	148864	26.02	ug/l	98
48) Methyl methacrylate	7.69	41	6979	2.46	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	3435	0.85	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1002	0.26	ug/l #	75
59) 2-Hexanone	9.55	43	9850	3.18	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	73677	24.21	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	73677	74.95	ug/l #	10

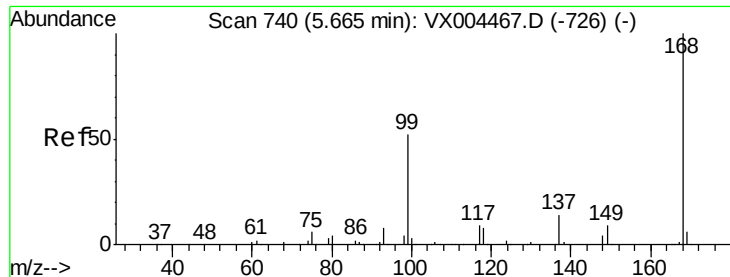
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

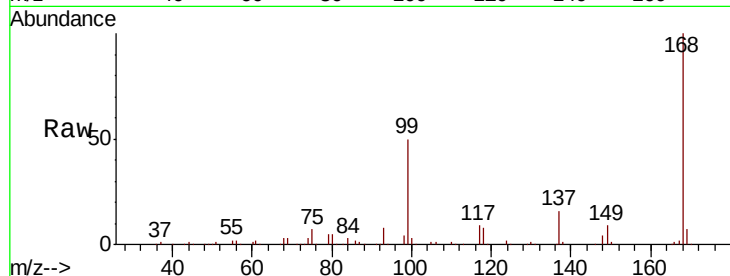
PB112748ZHE#01

Tot Ion:168 Resp: 184833

Ion Ratio Lower Upper

168 100

99 50.0 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

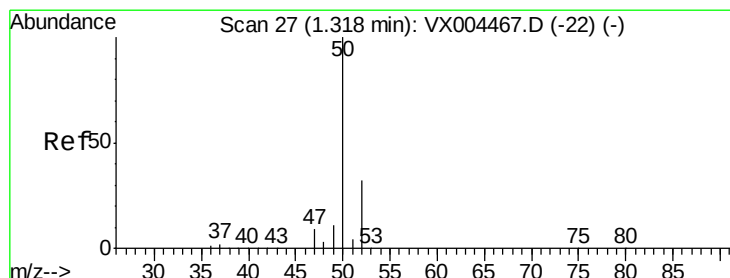
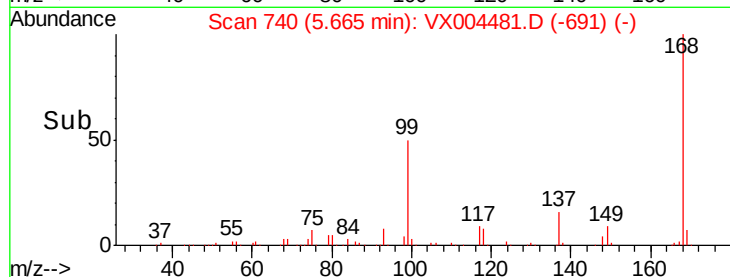
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.33 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004481.D

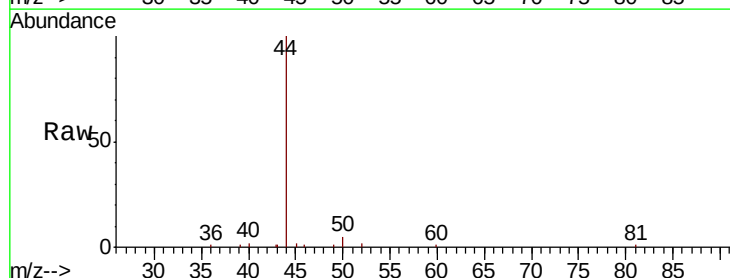
Acq: 11 Sep 2018 22:21

Tgt Ion: 50 Resp: 778

Ion Ratio Lower Upper

50 100

52 42.0 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

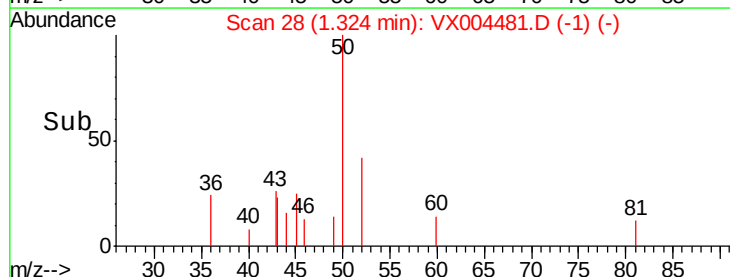
300

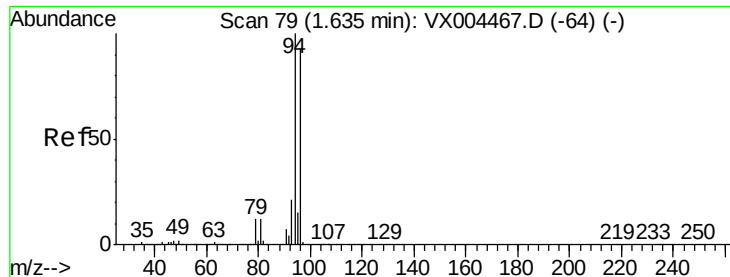
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

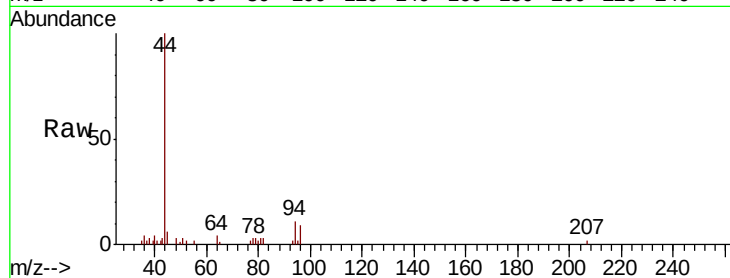
PB112748ZHE#01

Tot Ion: 94 Resp: 922

Ion Ratio Lower Upper

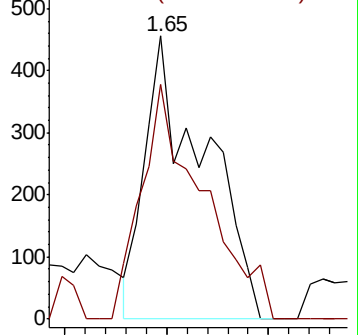
94 100

96 82.7 74.5 111.7

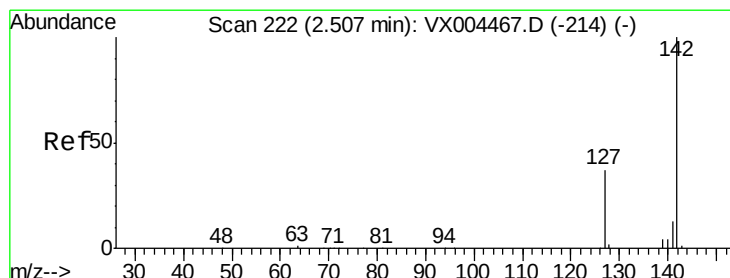
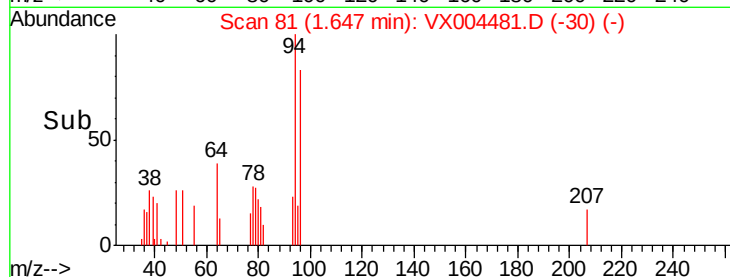


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.42 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

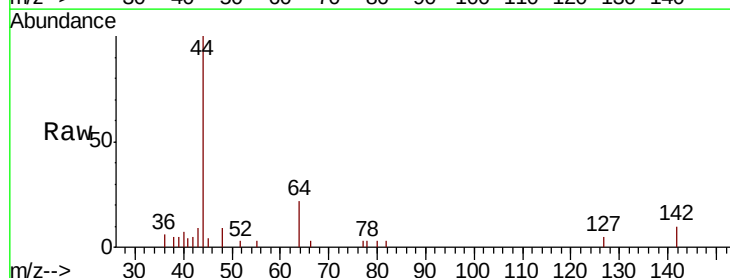
Tgt Ion: 142 Resp: 428

Ion Ratio Lower Upper

142 100

127 28.7 33.8 50.6#

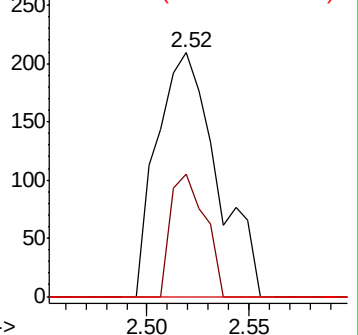
141 0.0 11.4 17.0#



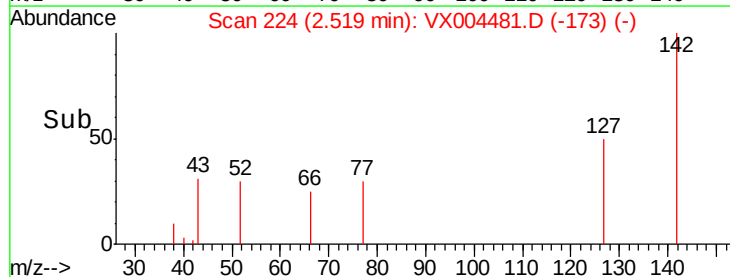
Abundance Ion 141.80 (141.50 to 142.50): V

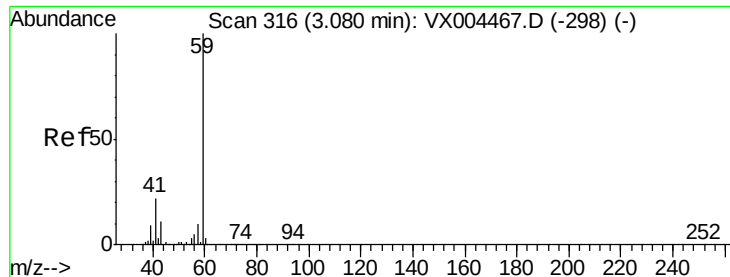
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 0.61 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

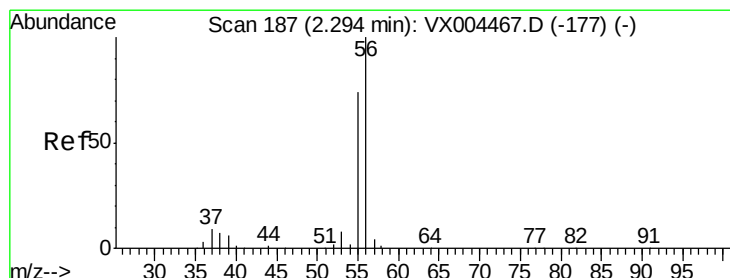
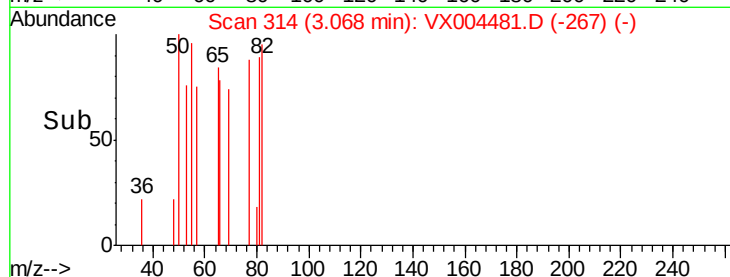
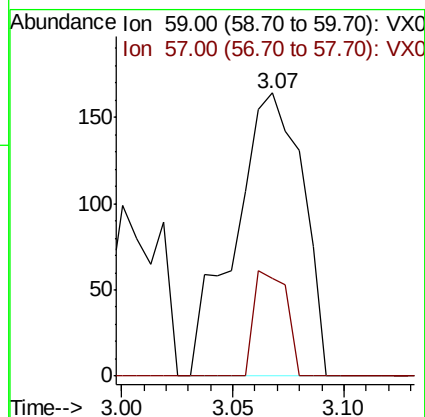
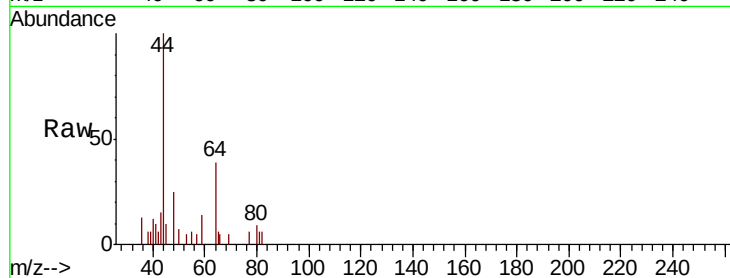
PB112748ZHE#01

Tot Ion: 59 Resp: 348

Ion Ratio Lower Upper

59 100

57 18.1 8.2 12.4#



#13

Acrolein

Concen: 0.74 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004481.D

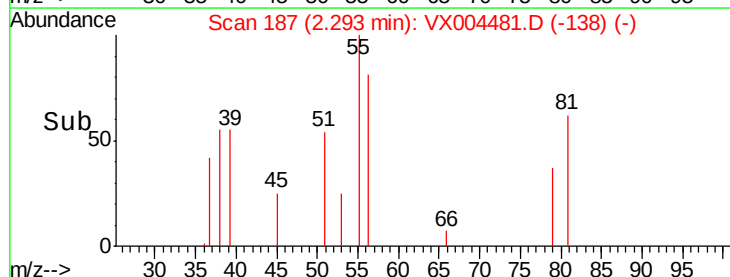
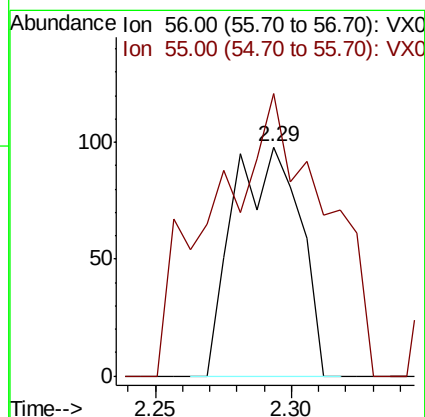
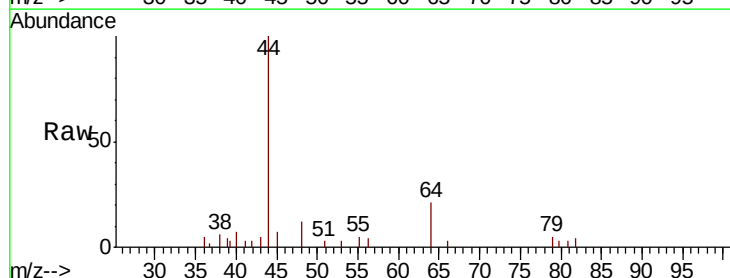
Acq: 11 Sep 2018 22:21

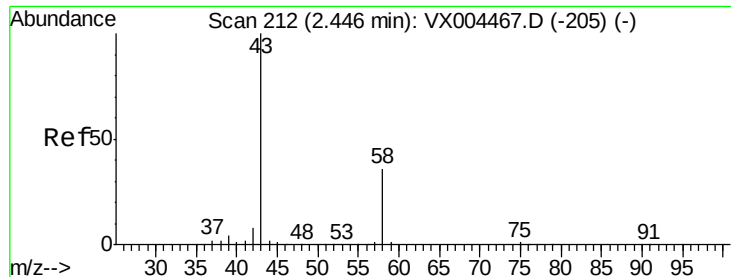
Tgt Ion: 56 Resp: 166

Ion Ratio Lower Upper

56 100

55 206.0 54.7 82.1#





#16

Acetone

Concen: 12.03 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

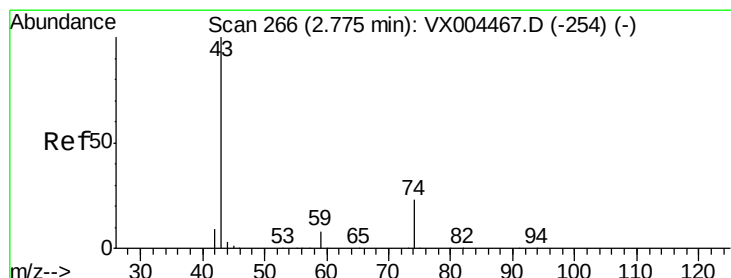
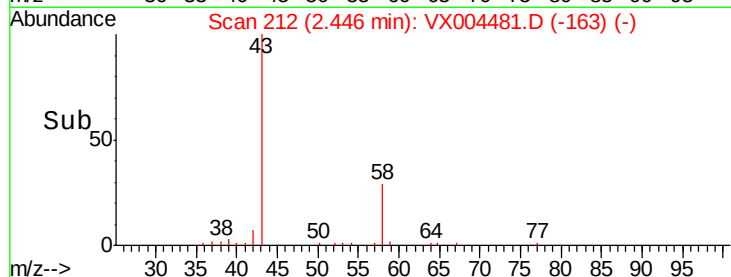
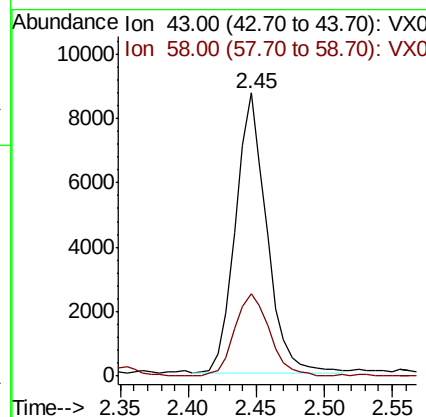
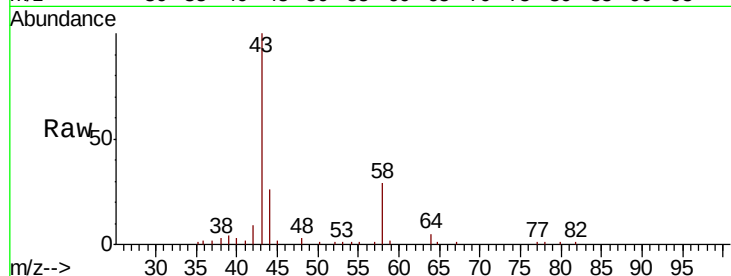
PB112748ZHE#01

Tot Ion: 43 Resp: 13992

Ion Ratio Lower Upper

43 100

58 29.2 26.2 39.4



#18

Methyl Acetate

Concen: 1.80 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004481.D

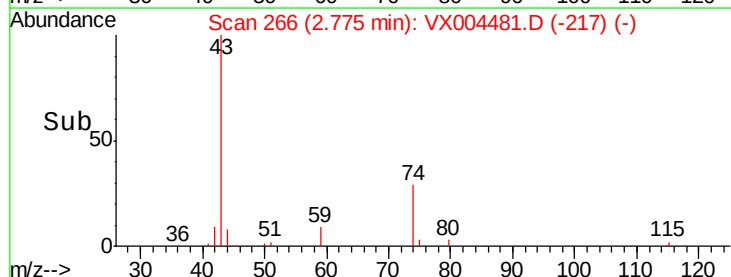
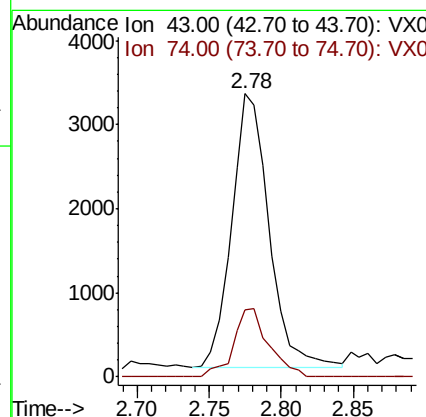
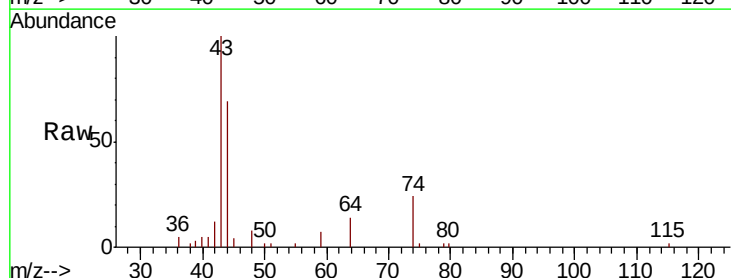
Acq: 11 Sep 2018 22:21

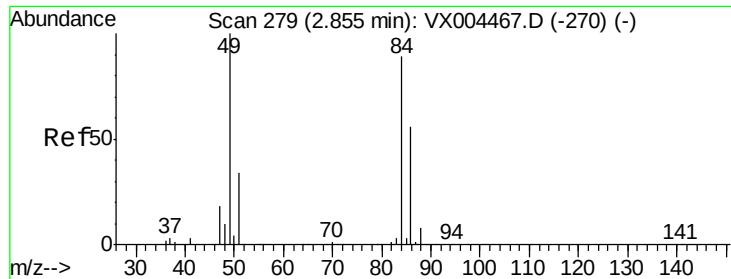
Tgt Ion: 43 Resp: 5862

Ion Ratio Lower Upper

43 100

74 23.4 19.4 29.2

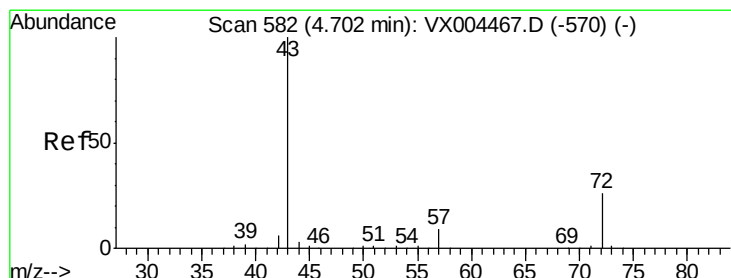
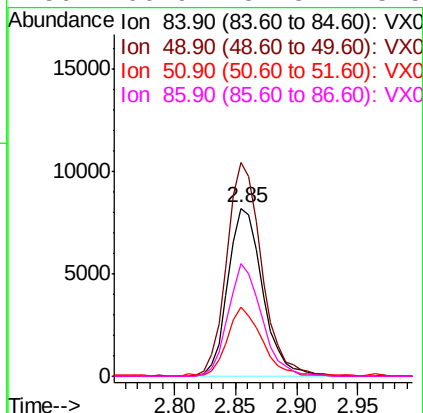
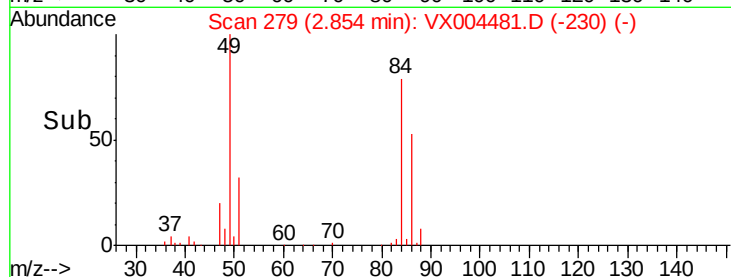
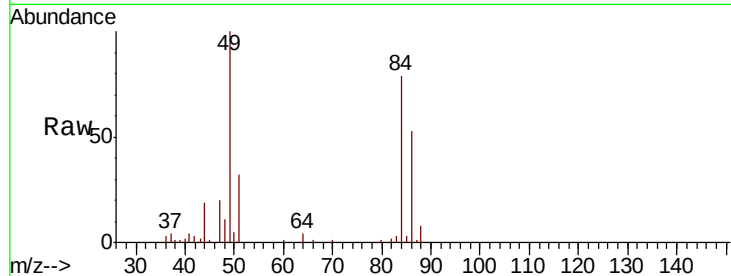




#20
Methvlene Chloride
Concen: 6.77 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

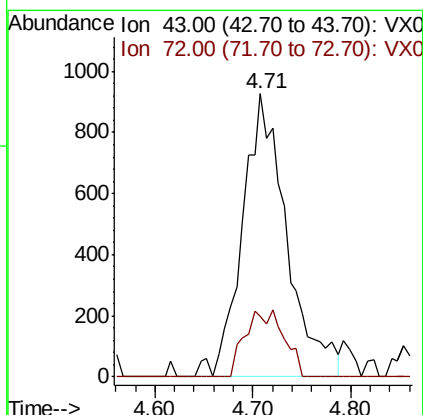
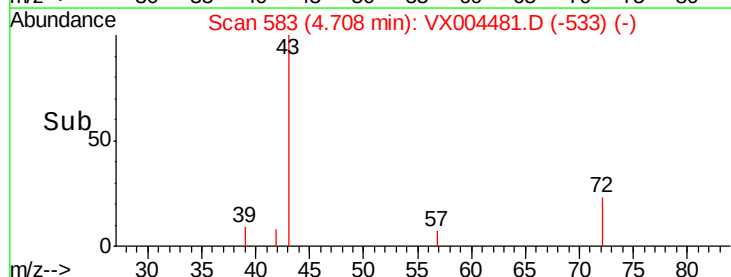
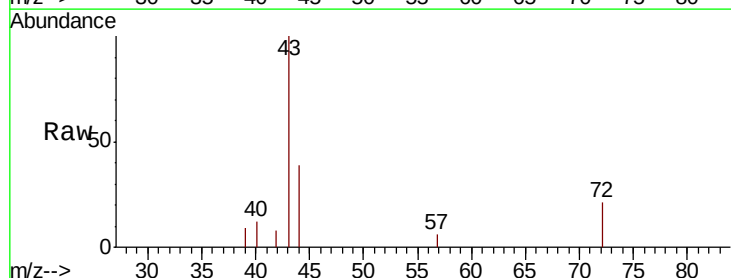
Instrument :
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PB112748ZHE#01

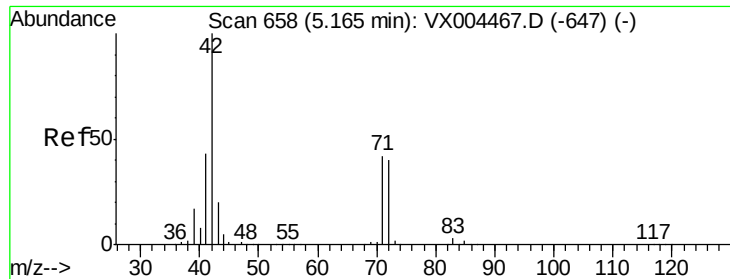
Tot Ion:	84	Resp:	16151
Ion	Ratio	Lower	Upper
84	100		
49	127.0	101.2	151.8
51	40.1	29.5	44.3
86	66.9	52.3	78.5



#25
2-Butanone
Concen: 1.58 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

Tgt Ion:	43	Resp:	2924
Ion	Ratio	Lower	Upper
43	100		
72	21.3	22.0	33.0#

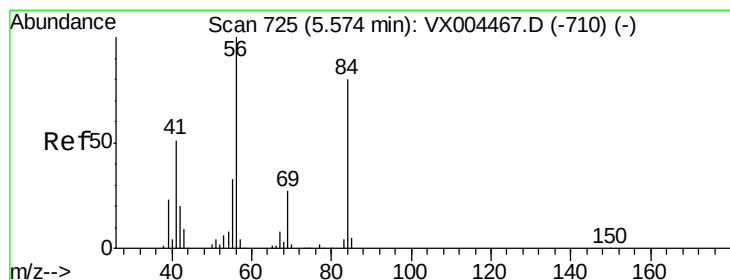
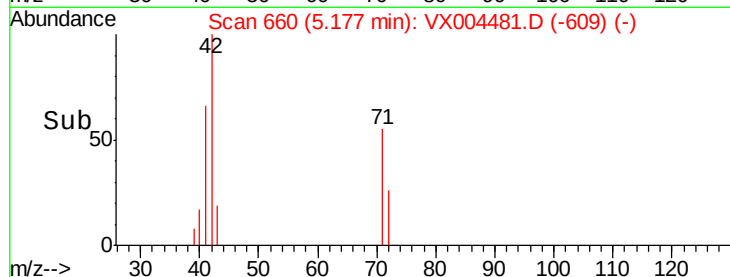
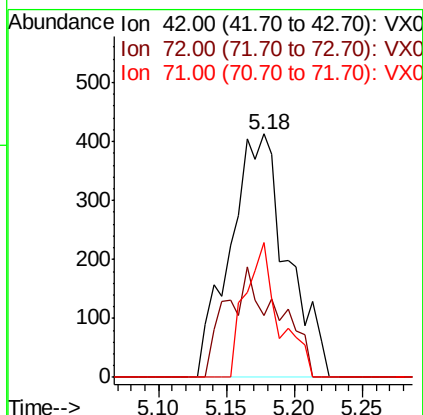
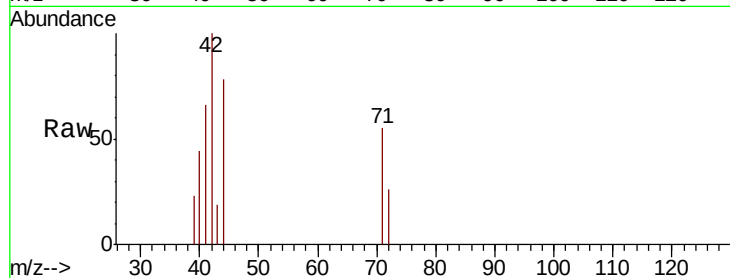




#29
Tetrahydrofuran
Concen: 1.09 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.01 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

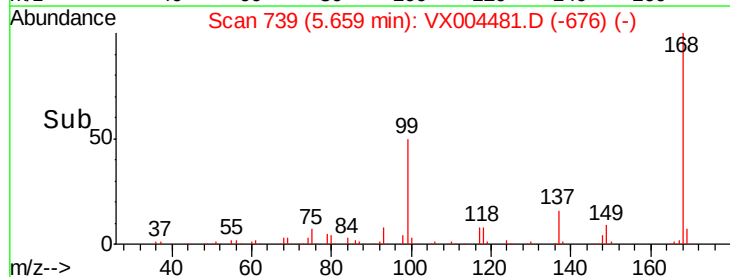
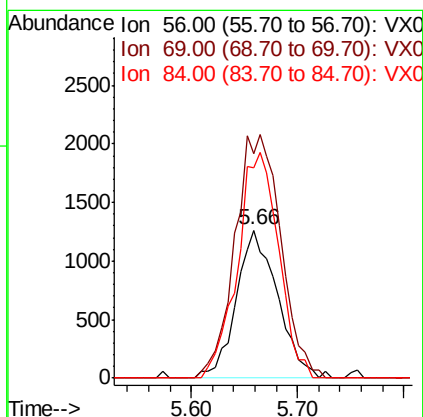
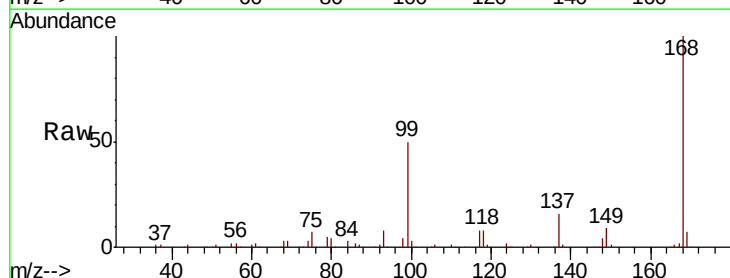
Instrument :
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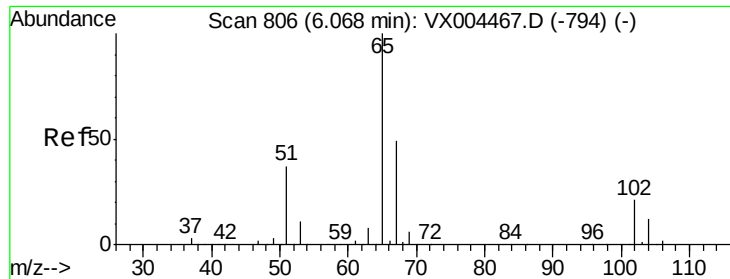
Tot Ion: 42 Resp: 1212
Ion Ratio Lower Upper
42 100
72 41.4 37.4 56.0
71 32.9 34.5 51.7#



#31
Cyclohexane
Concen: 1.00 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

Tgt Ion: 56 Resp: 3450
Ion Ratio Lower Upper
56 100
69 151.7 25.4 38.2#
84 142.0 71.4 107.2#

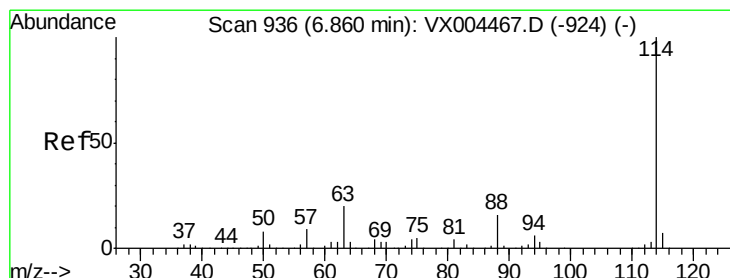
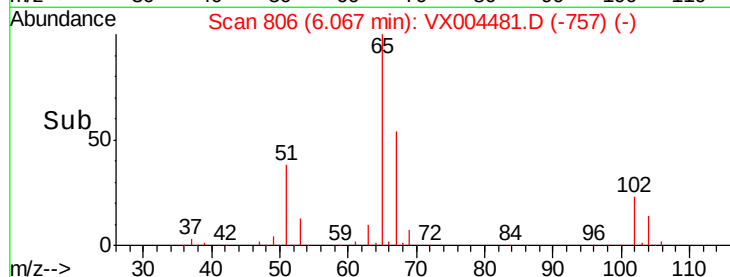
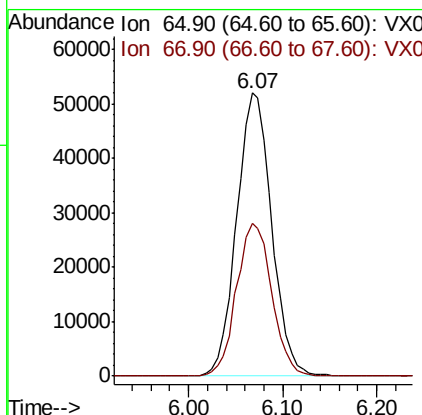
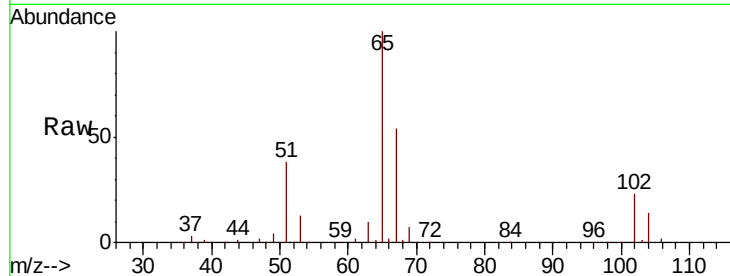




#33
 1,2-Dichloroethane-d4
 Concen: 56.59 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004481.D
 Acq: 11 Sep 2018 22:21

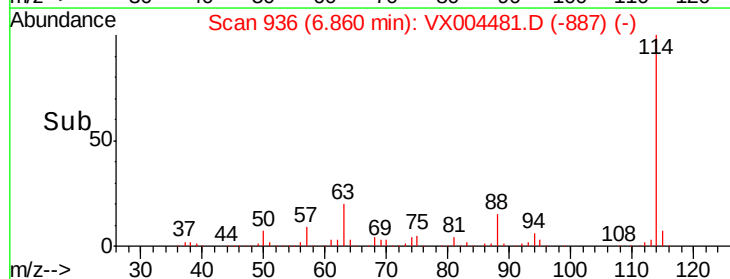
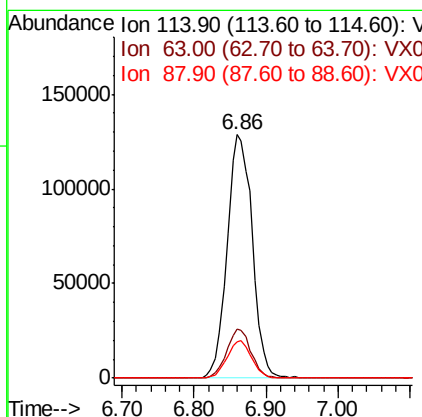
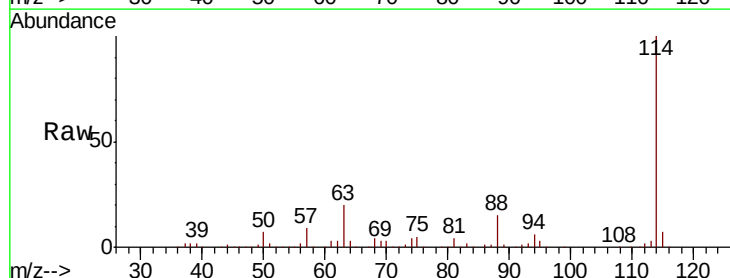
Instrument :
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 PB112748ZHE#01

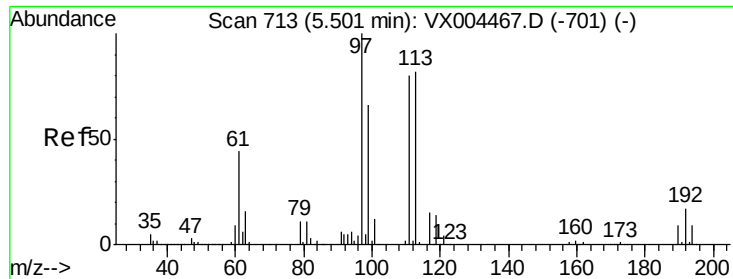
Tot Ion: 65 Resp: 134875
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004481.D
 Acq: 11 Sep 2018 22:21

Tgt Ion: 114 Resp: 311961
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 15.1 0.0 30.4

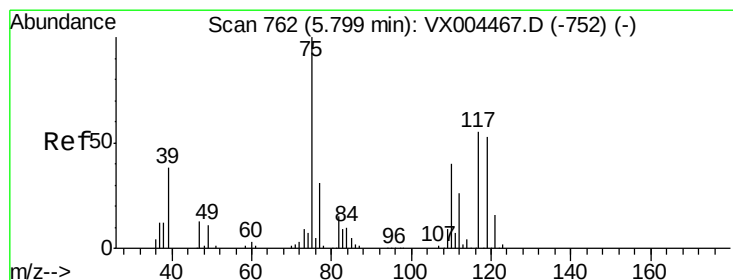
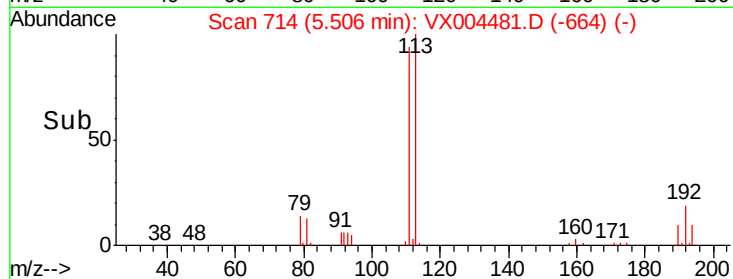
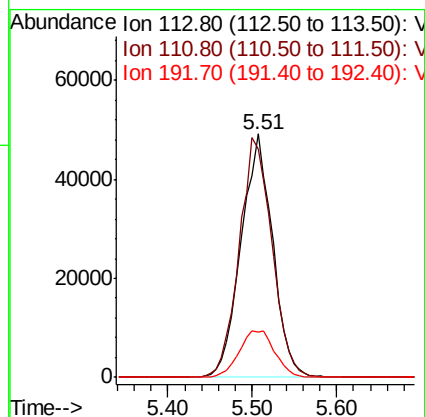
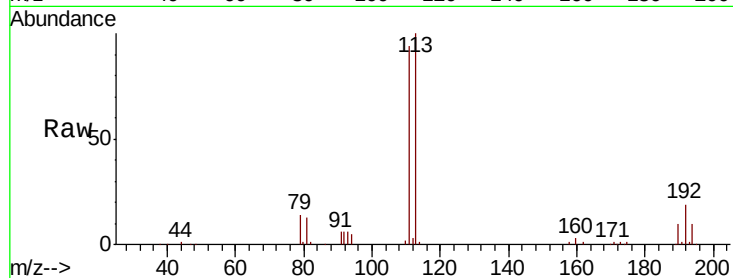




#35
 Dibromofluoromethane
 Concen: 43.54 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004481.D
 Acq: 11 Sep 2018 22:21

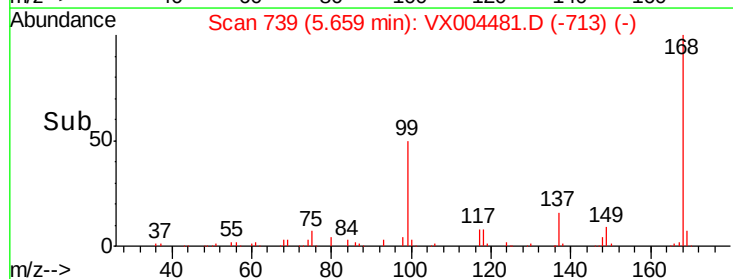
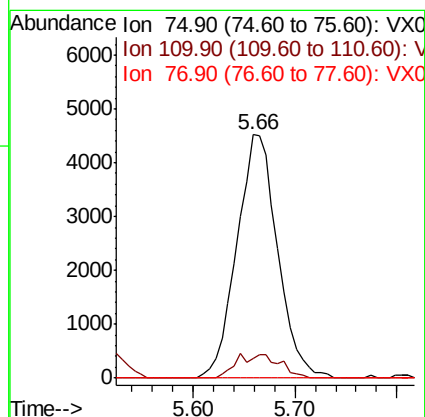
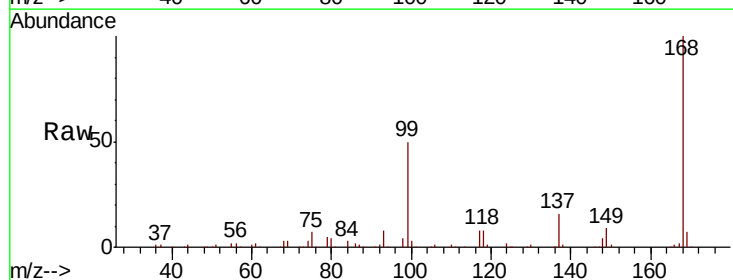
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112748ZHE#01

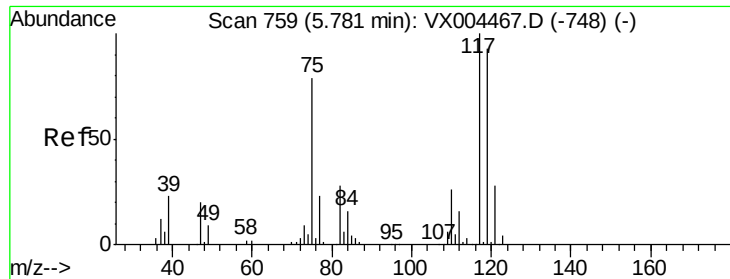
Tot Ion:113 Resp: 124287
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.4 123.6
 192 21.9 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.30 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004481.D
 Acq: 11 Sep 2018 22:21

Tgt Ion: 75 Resp: 12497
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.39 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

PB112748ZHE#01

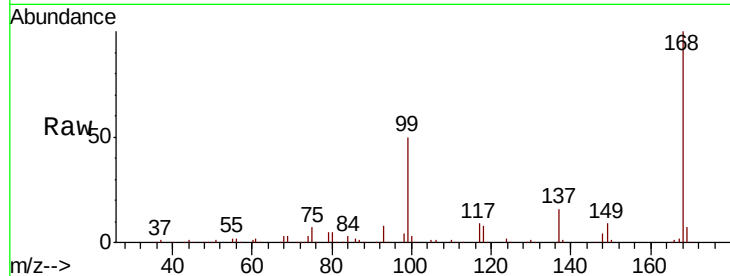
Tot Ion:117 Resp: 16237

Ion Ratio Lower Upper

117 100

119 5.4 78.8 118.2#

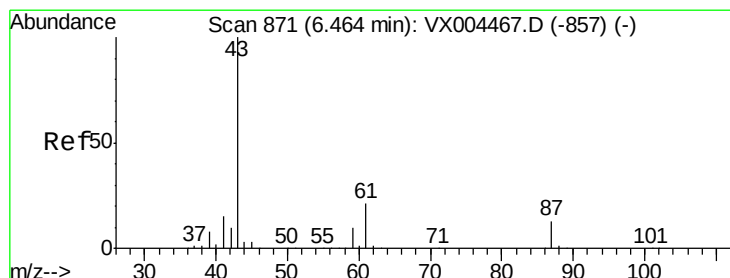
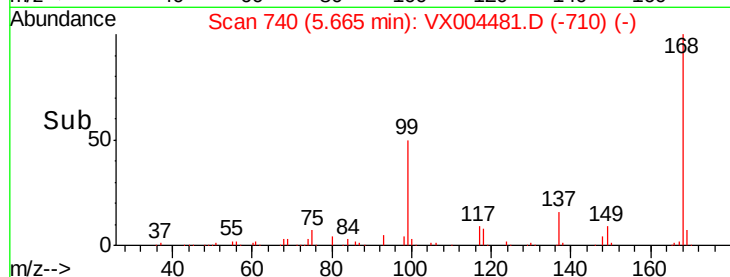
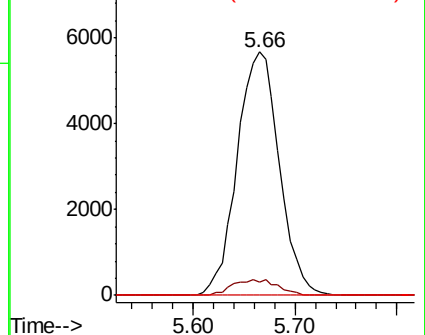
121 0.0 24.9 37.3#



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: 26.02 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.01 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

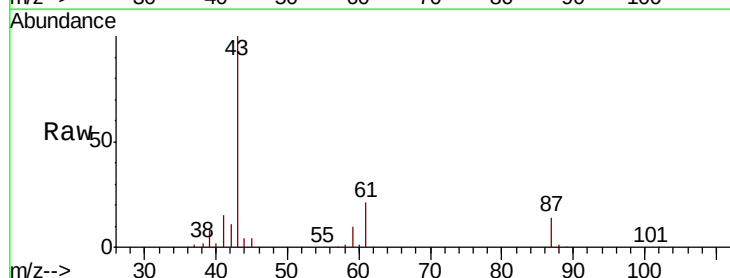
Tgt Ion: 43 Resp: 148864

Ion Ratio Lower Upper

43 100

61 20.5 17.0 25.4

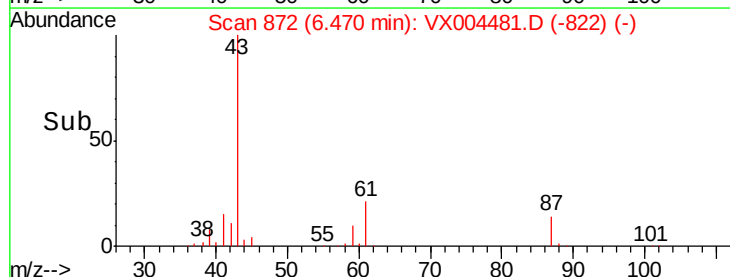
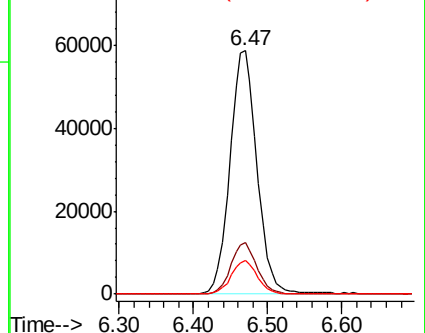
87 13.3 11.4 17.2

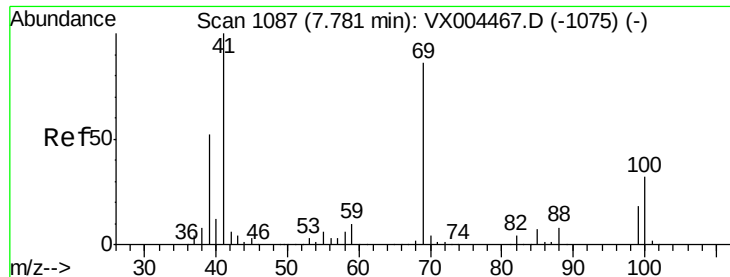


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.46 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

PB112748ZHE#01

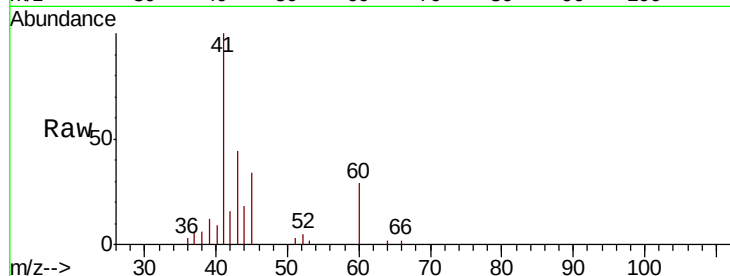
Tot Ion: 41 Resp: 6979

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

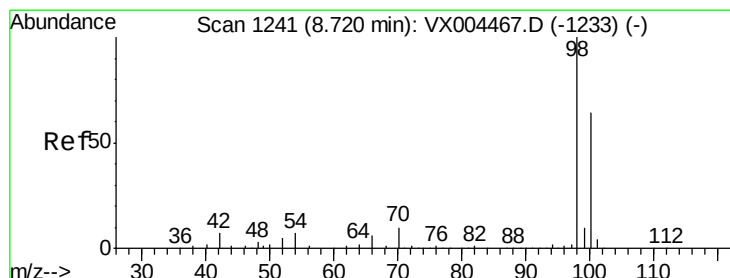
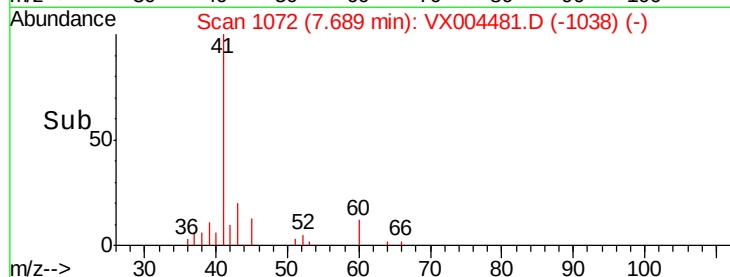
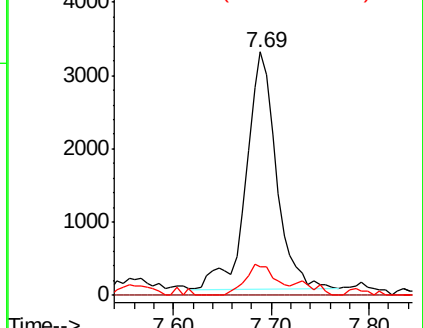
39 13.2 42.7 64.1#



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



#50

Toluene-d8

Concen: 46.11 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004481.D

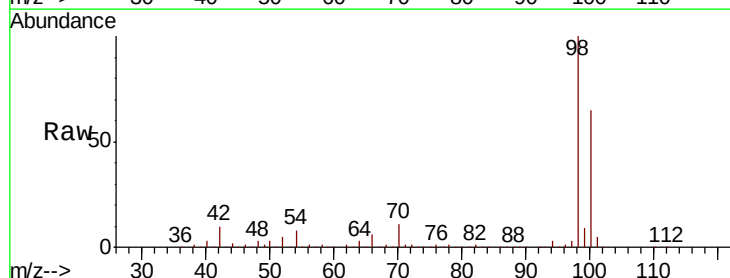
Acq: 11 Sep 2018 22:21

Tgt Ion: 98 Resp: 441419

Ion Ratio Lower Upper

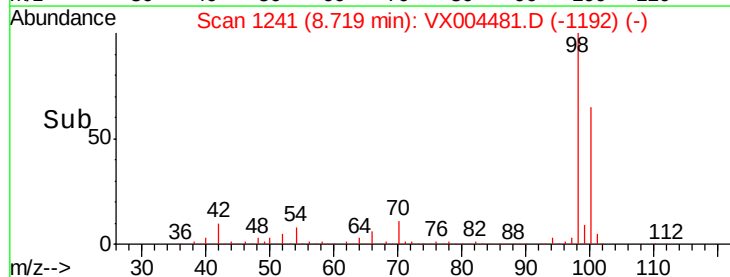
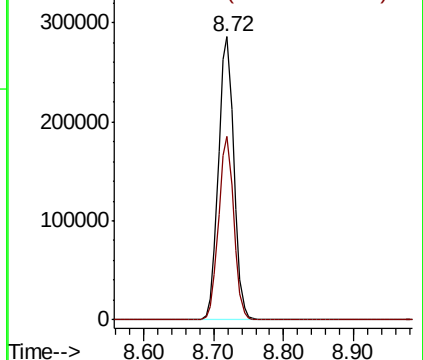
98 100

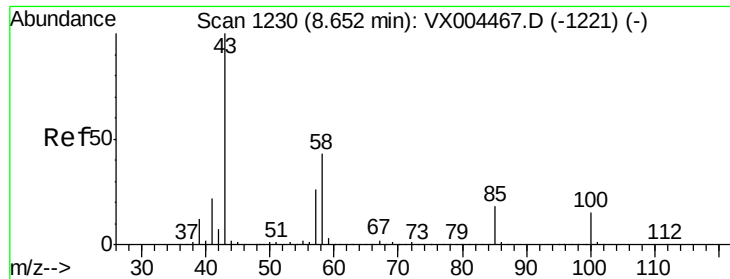
100 63.7 52.9 79.3



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: 0.85 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

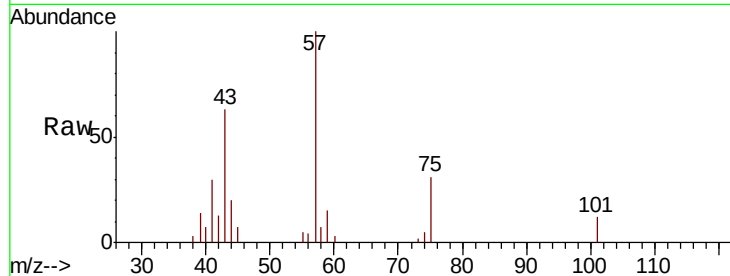
PB112748ZHE#01

Tot Ion: 43 Resp: 3435

Ion Ratio Lower Upper

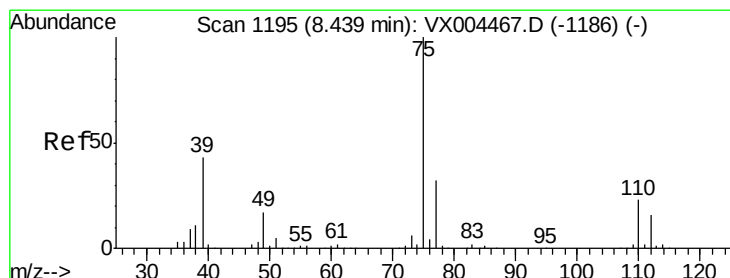
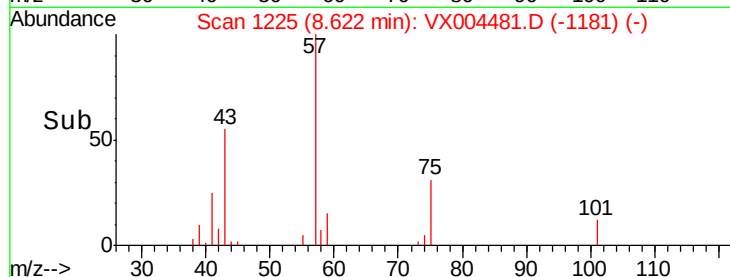
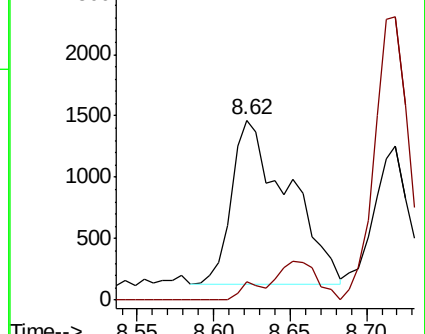
43 100

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: 0.26 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

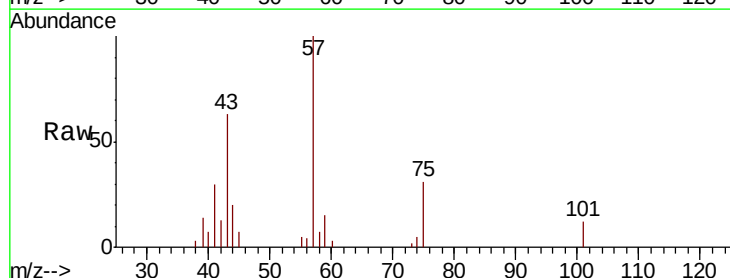
Tgt Ion: 75 Resp: 1002

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

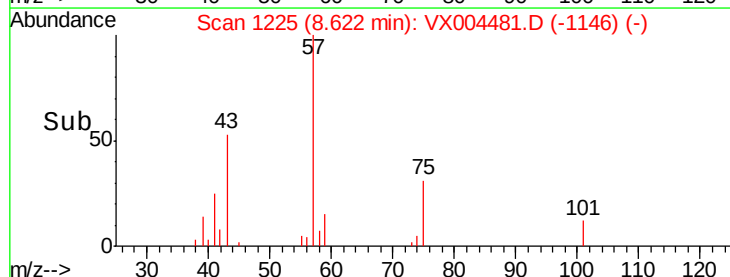
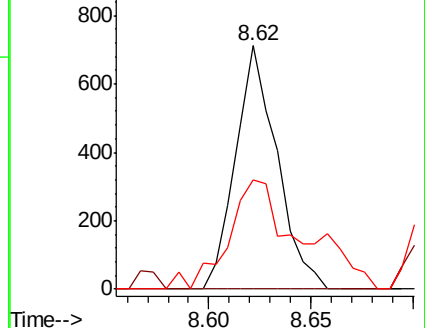
39 44.9 36.4 54.6

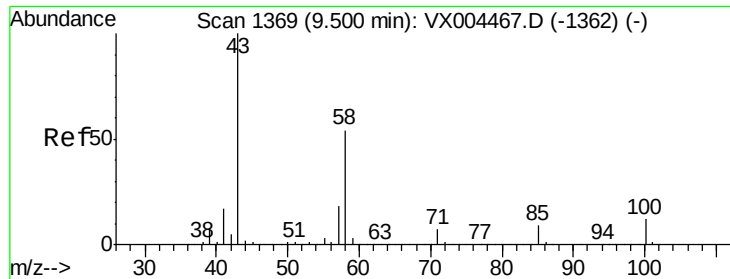


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

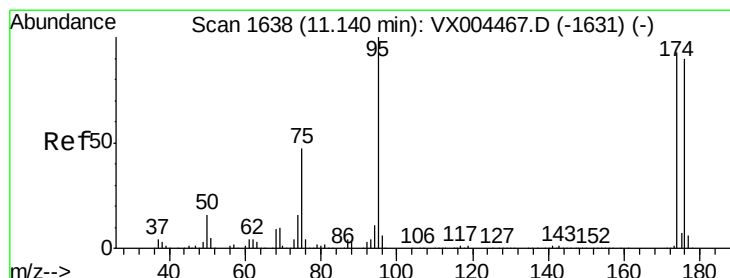
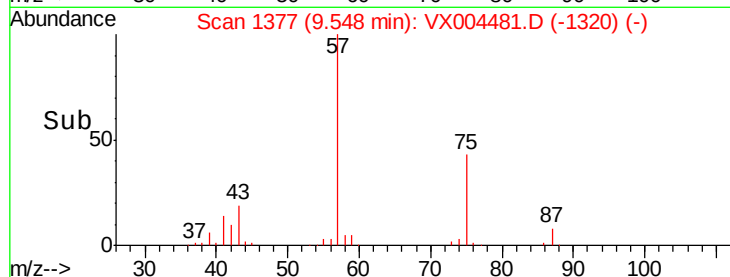
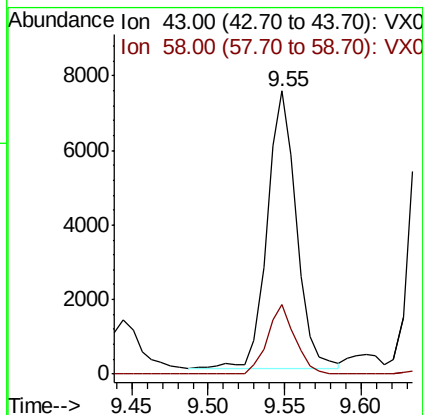
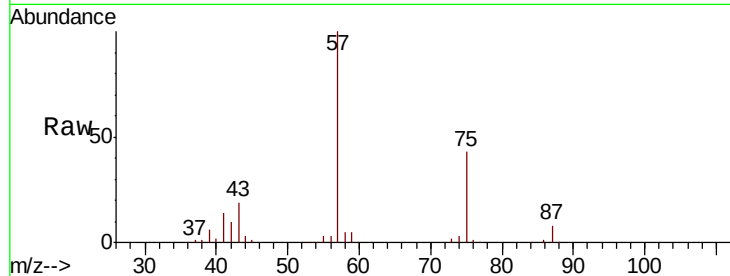




#59
2-Hexanone
Concen: 3.18 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

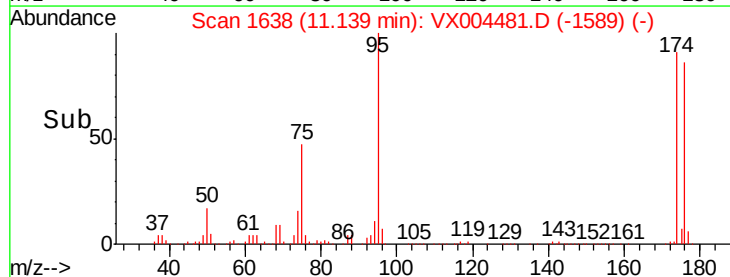
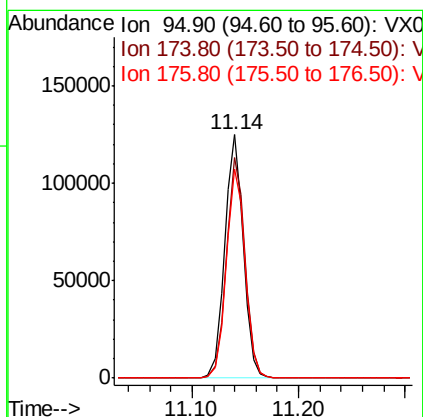
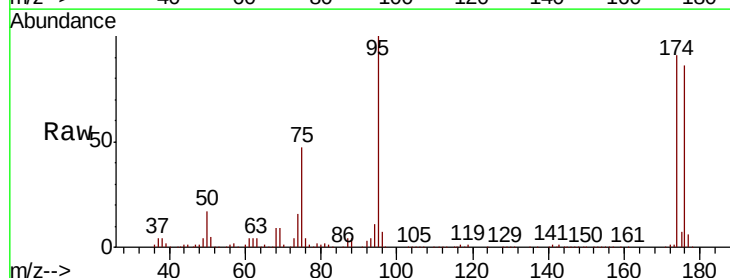
Instrument :
MSVOA_X
ClientSampleId :
PB112748ZHE#01

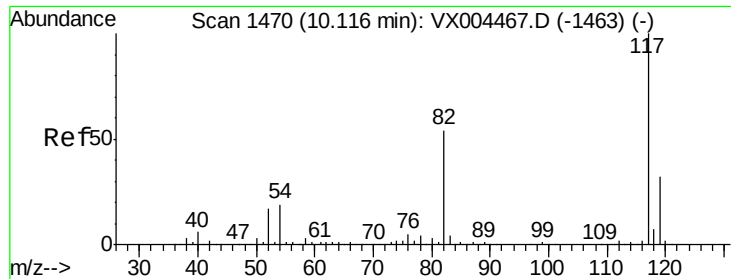
Tot Ion: 43 Resp: 9850
Ion Ratio Lower Upper
43 100
58 23.6 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 44.61 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

Tgt Ion: 95 Resp: 152448
Ion Ratio Lower Upper
95 100
174 92.0 0.0 185.2
176 87.2 0.0 178.6

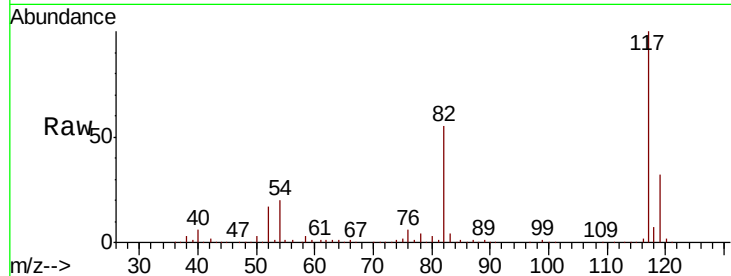




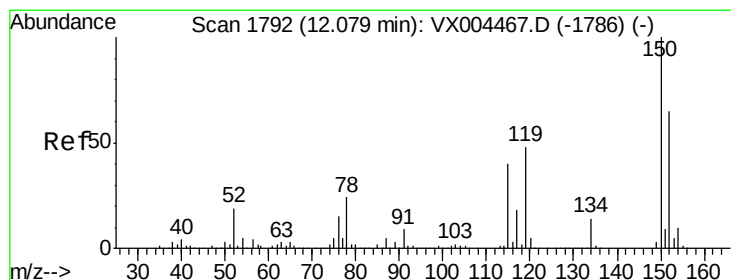
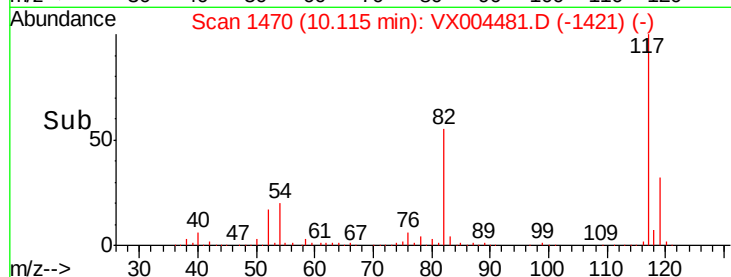
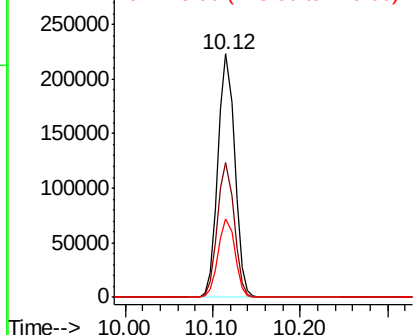
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

Instrument :
MSVOA_X
ClientSampleId :
PB112748ZHE#01

Tot Ion:117 Resp: 296184
Ion Ratio Lower Upper
117 100
82 55.4 47.8 71.6
119 32.1 29.3 43.9

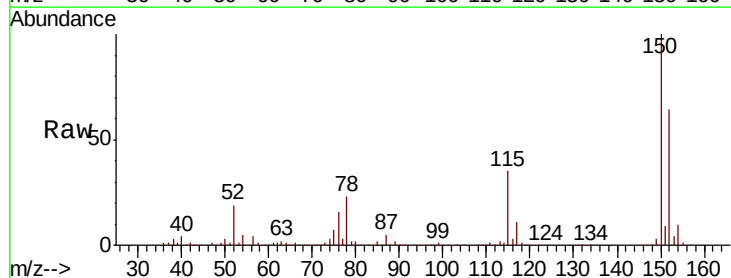


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

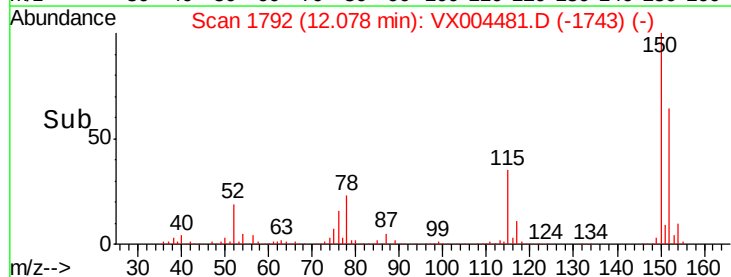
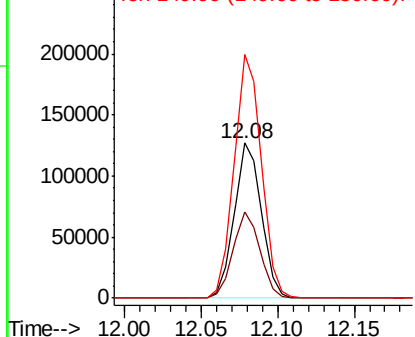


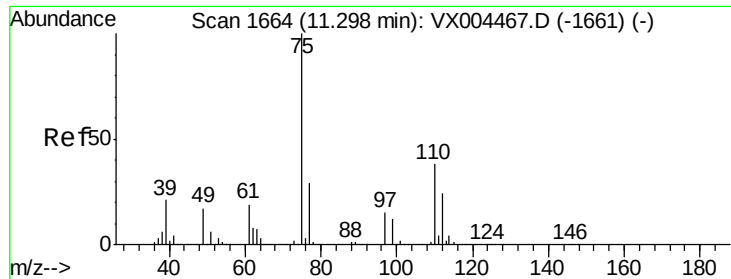
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004481.D
Acq: 11 Sep 2018 22:21

Tgt Ion:152 Resp: 155731
Ion Ratio Lower Upper
152 100
115 55.4 39.0 117.0
150 157.8 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: 24.21 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

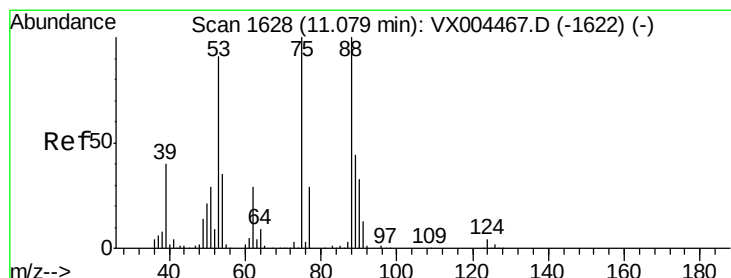
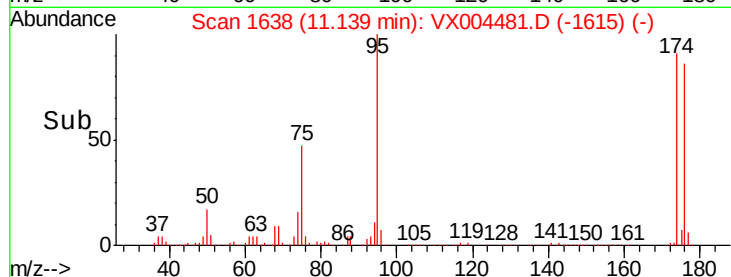
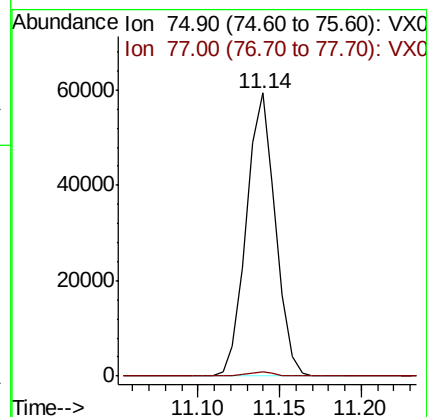
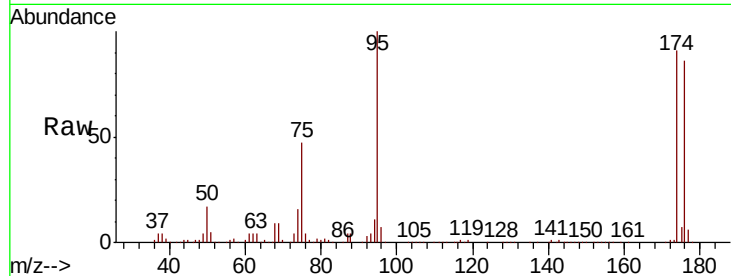
PB112748ZHE#01

Tot Ion: 75 Resp: 73677

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.95 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004481.D

Acq: 11 Sep 2018 22:21

Tgt Ion: 75 Resp: 73677

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

