

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022119\
 Data File : VX007636.D
 Acq On : 21 Feb 2019 17:36
 Operator : JC/SP
 Sample : PB117250ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#10

Quant Time: Feb 22 04:34:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	442768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	727286	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	704669	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	329980	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	255175	54.30	ug/l	0.00
Spiked Amount			Recovery	=	108.60%	
35) Dibromofluoromethane	5.50	113	239942	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
50) Toluene-d8	8.71	98	896997	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	11.13	95	308642	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	

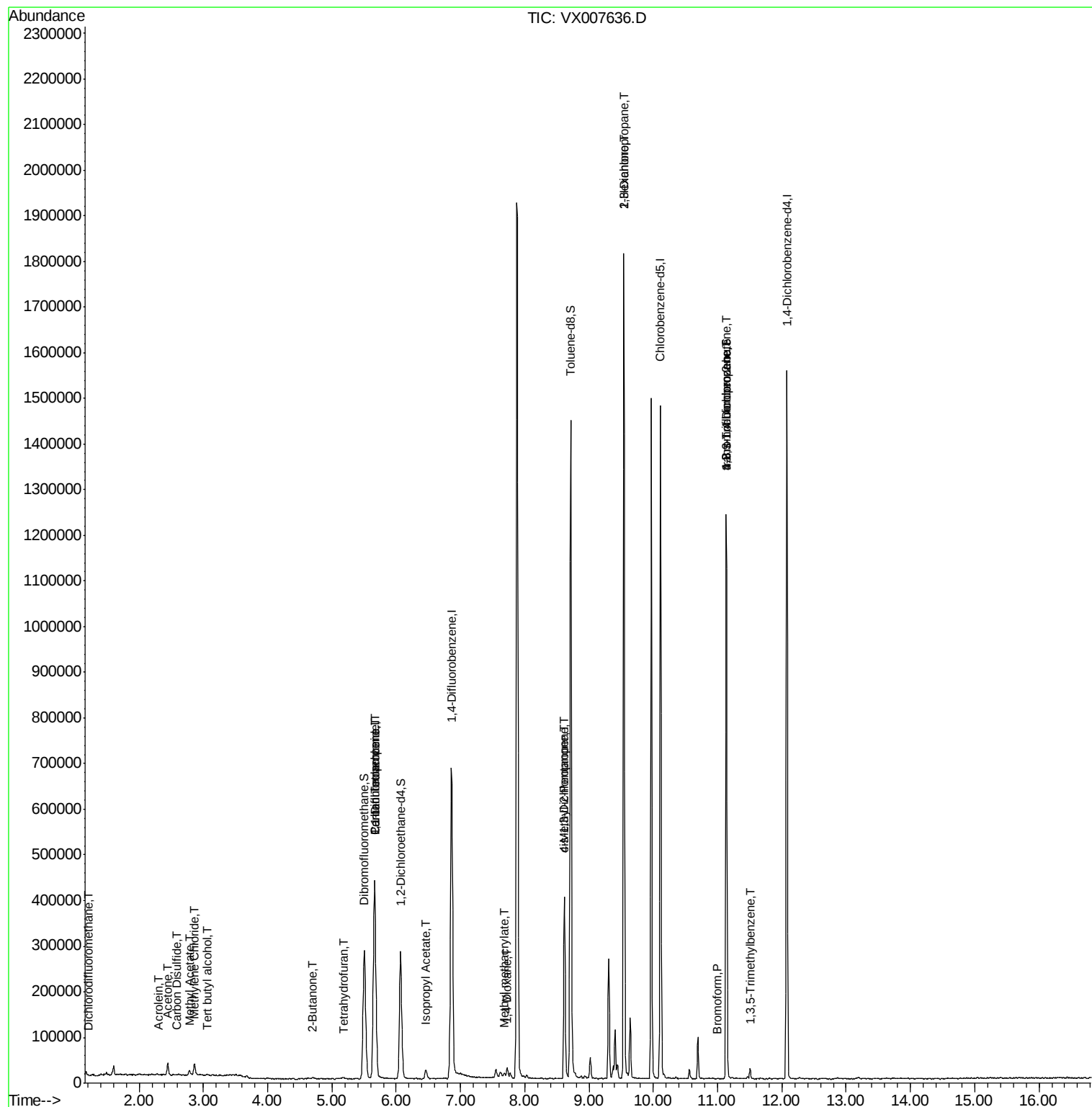
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	193	0.213	ug/l #	43
5) Bromomethane	1.65	94	563	Below Cal	#	31
11) Tert butyl alcohol	3.05	59	378	0.389	ug/l #	1
13) Acrolein	2.31	56	698	1.530	ug/l	96
16) Acetone	2.45	43	27704	12.869	ug/l	98
17) Carbon Disulfide	2.58	76	1144	2.220	ug/l #	1
18) Methyl Acetate	2.78	43	13550	2.980	ug/l	97
20) Methylene Chloride	2.86	84	11531	2.247	ug/l	87
25) 2-Butanone	4.70	43	4897	1.598	ug/l	92
29) Tetrahydrofuran	5.18	42	2532	1.314	ug/l #	80
36) 1,1-Dichloropropene	5.67	75	29060	4.453	ug/l #	49
38) Carbon Tetrachloride	5.67	117	40271	6.361	ug/l #	17
43) Isopropyl Acetate	6.46	43	26515	2.604	ug/l	99
48) Methyl methacrylate	7.68	41	12218	2.399	ug/l #	13
49) 1,4-Dioxane	7.73	88	236	8.902	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	127725	19.056	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	64139	9.153	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	15220	1.851	ug/l #	47
59) 2-Hexanone	9.54	43	203400	38.997	ug/l #	52
71) Bromoform	10.99	173	118	4.053	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	149286	23.259	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	10128	0.552	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	149286	70.039	ug/l #	9

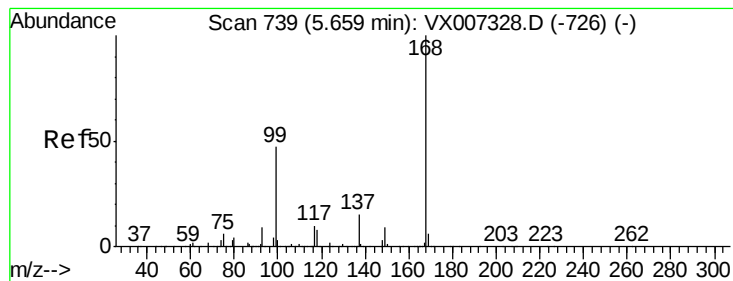
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 22 04:34:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

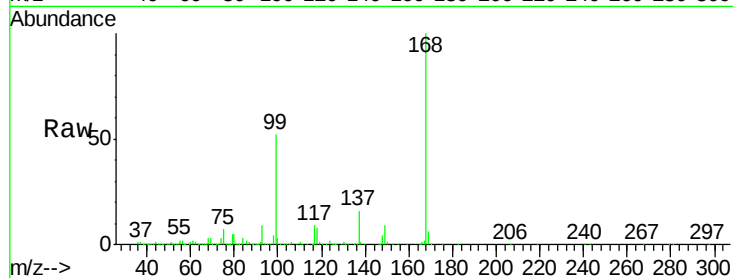
PB117250ZHE#10

Tot Ion:168 Resp: 442768

Ion Ratio Lower Upper

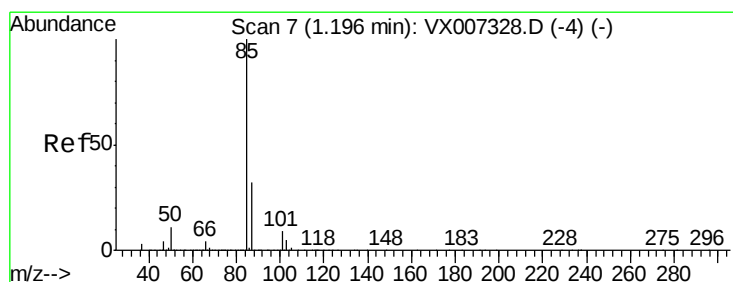
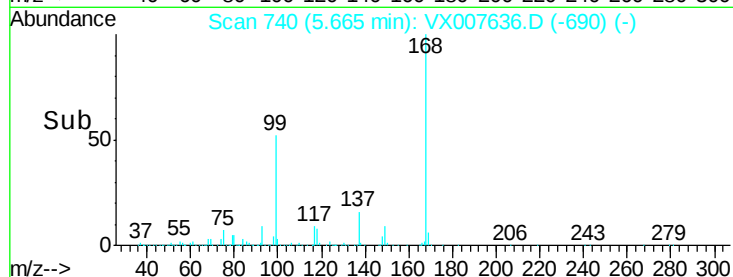
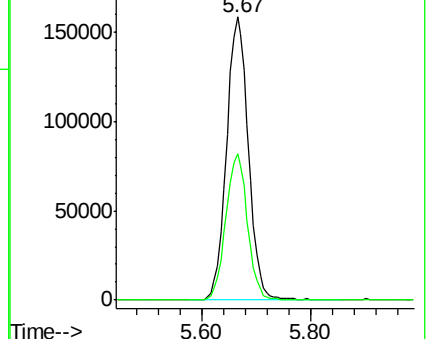
168 100

99 51.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.213 ug/l

RT: 1.21 min Scan# 10

Delta R.T. 0.02 min

Lab File: VX007636.D

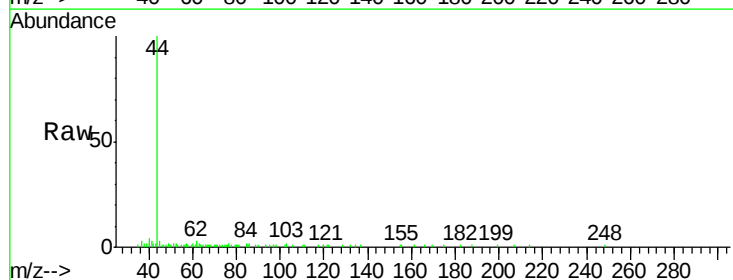
Acq: 21 Feb 2019 17:36

Tgt Ion: 85 Resp: 193

Ion Ratio Lower Upper

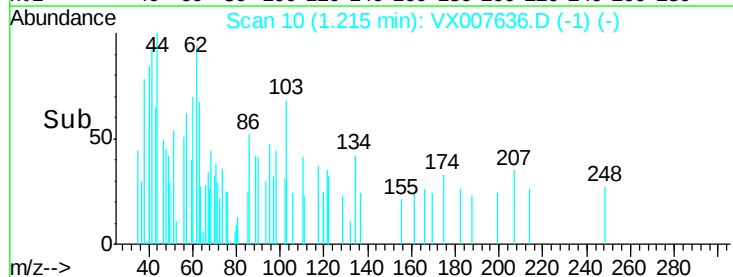
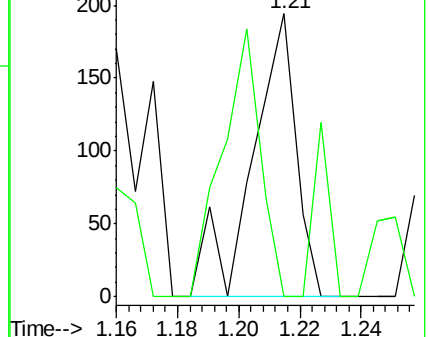
85 100

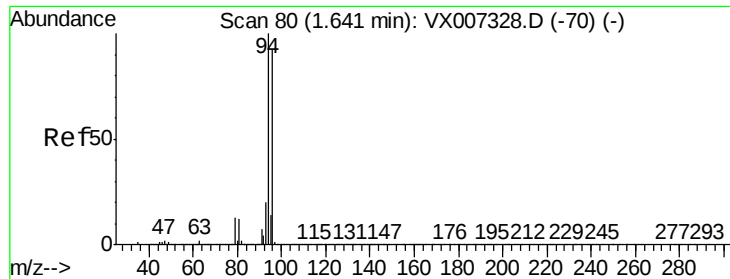
87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

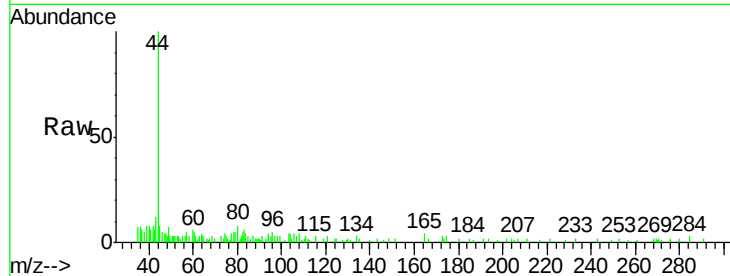
PB117250ZHE#10

Tot Ion: 94 Resp: 563

Ion Ratio Lower Upper

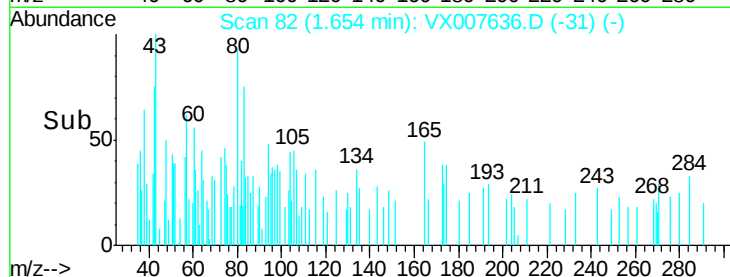
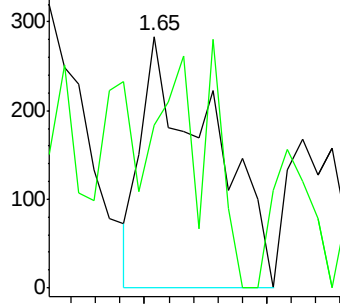
94 100

96 26.1 73.9 110.9#

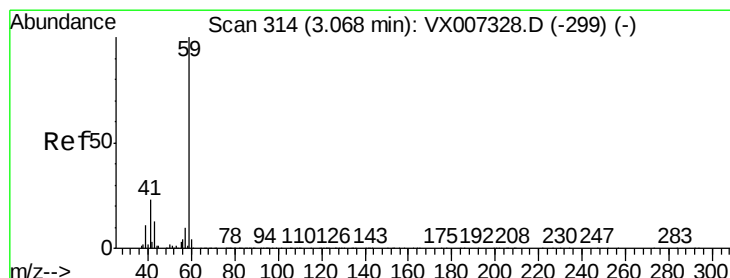


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#11

Tert butyl alcohol

Concen: 0.389 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.02 min

Lab File: VX007636.D

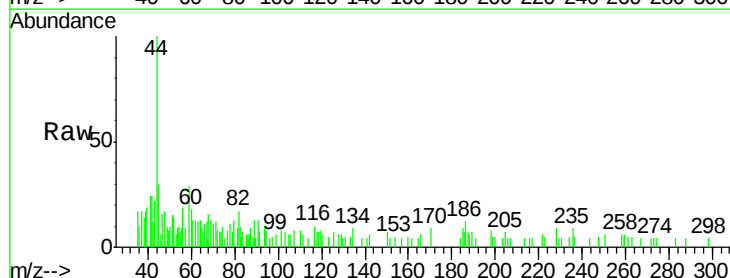
Acq: 21 Feb 2019 17:36

Tgt Ion: 59 Resp: 378

Ion Ratio Lower Upper

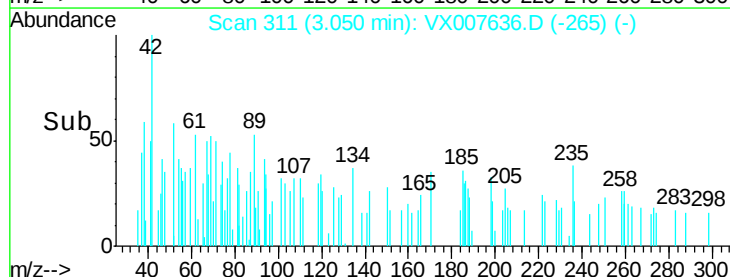
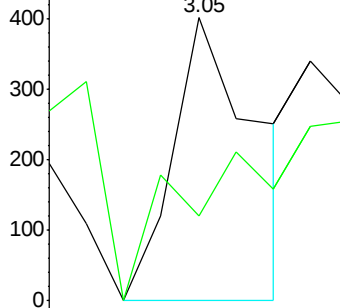
59 100

57 93.9 8.1 12.1#

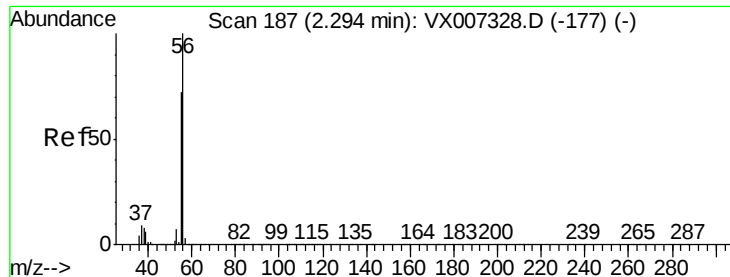


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 1.530 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

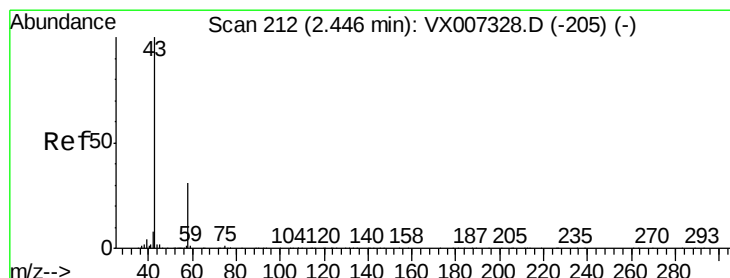
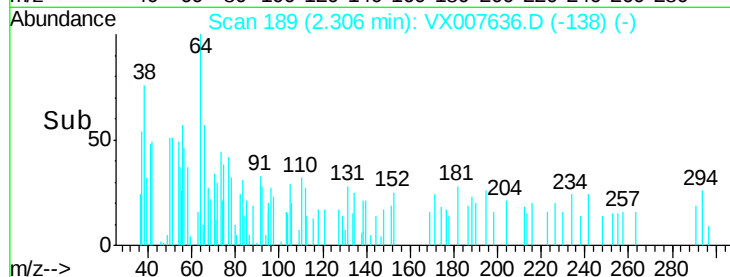
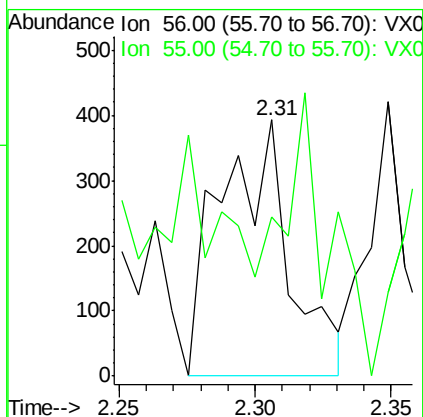
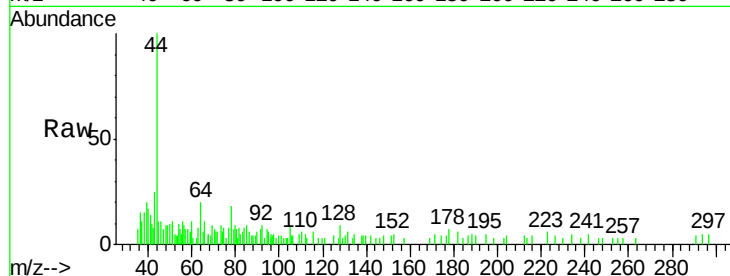
PB117250ZHE#10

Tot Ion: 56 Resp: 698

Ion Ratio Lower Upper

56 100

55 74.6 56.9 85.3



#16

Acetone

Concen: 12.869 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007636.D

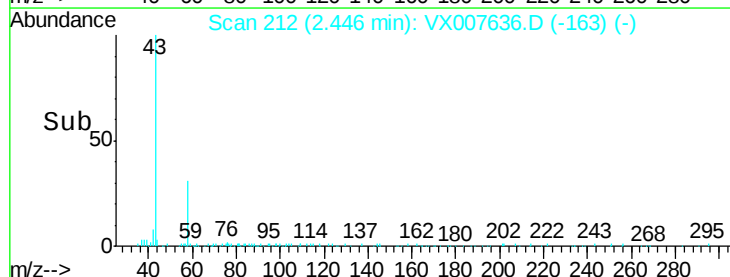
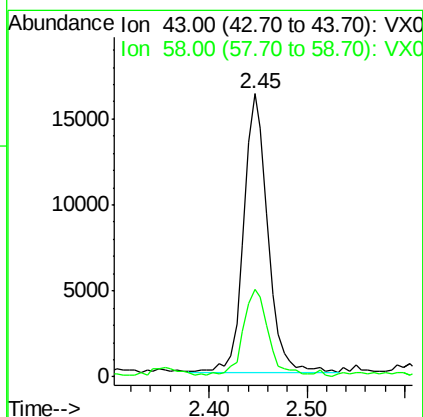
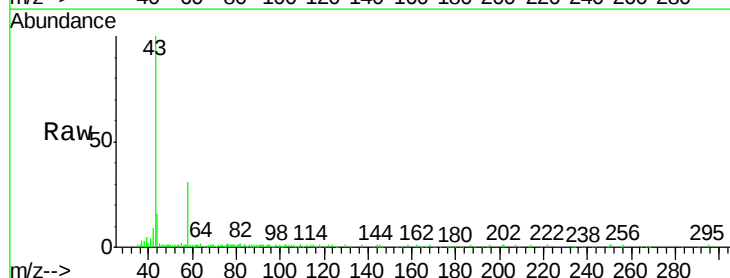
Acq: 21 Feb 2019 17:36

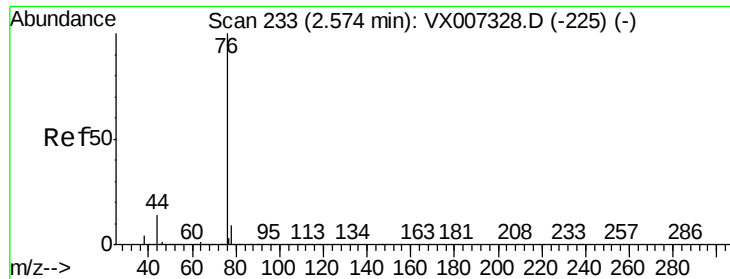
Tgt Ion: 43 Resp: 27704

Ion Ratio Lower Upper

43 100

58 30.1 24.9 37.3





#17

Carbon Disulfide

Concen: 2.220 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

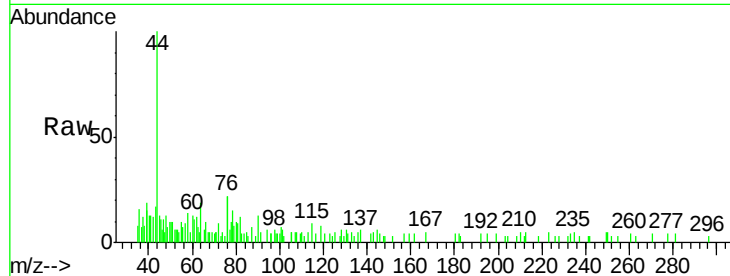
PB117250ZHE#10

Tot Ion: 76 Resp: 1144

Ion Ratio Lower Upper

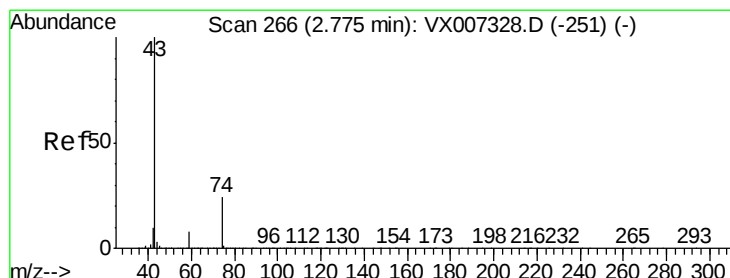
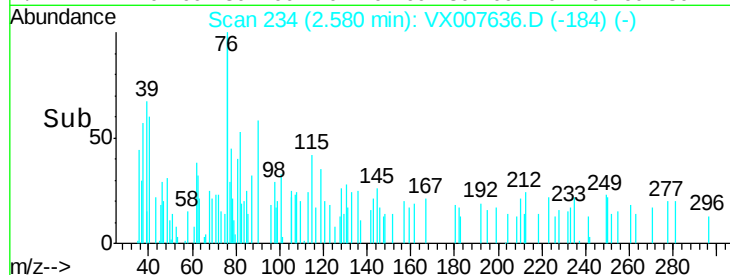
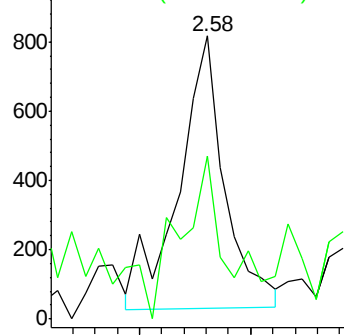
76 100

78 46.3 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 2.980 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007636.D

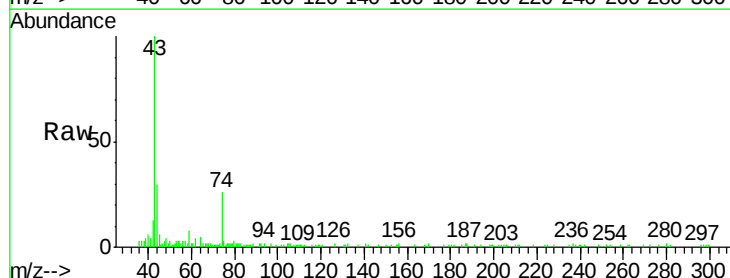
Acq: 21 Feb 2019 17:36

Tgt Ion: 43 Resp: 13550

Ion Ratio Lower Upper

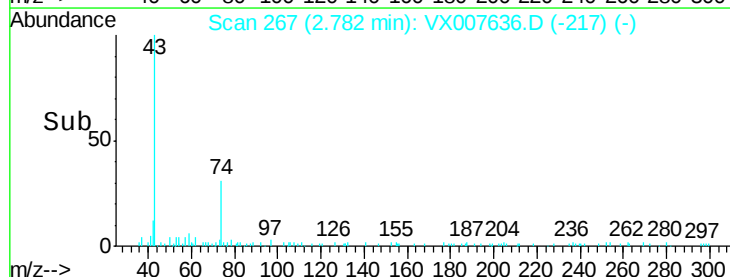
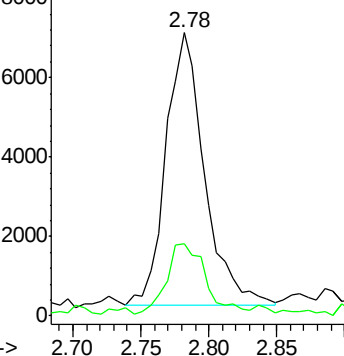
43 100

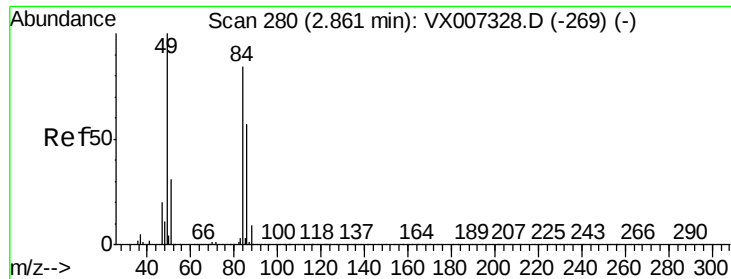
74 26.0 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

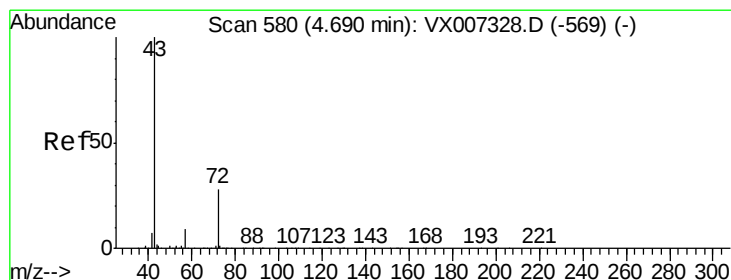
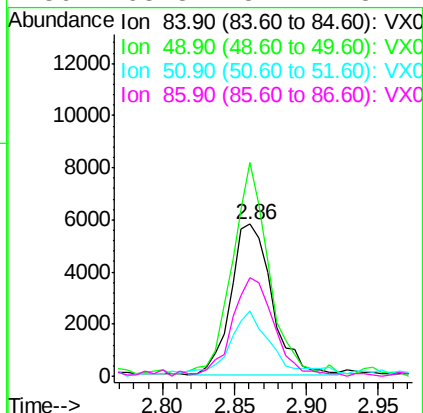
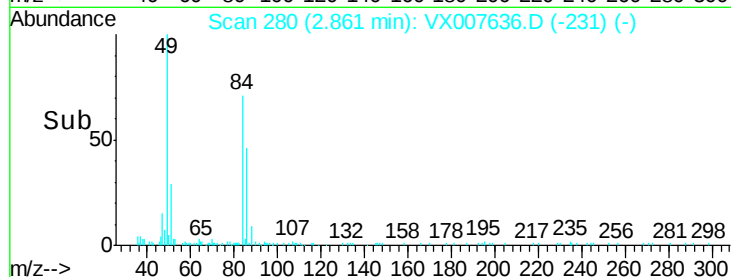
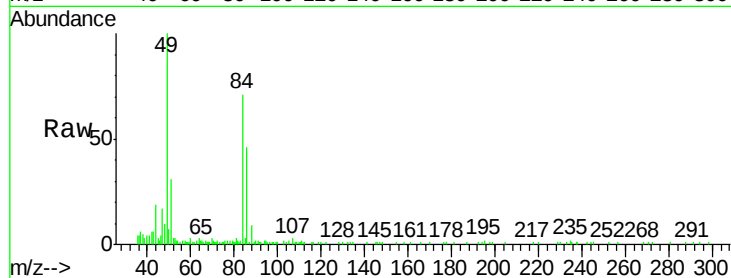




#20
Methvlene Chloride
Concen: 2.247 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007636.D
Acq: 21 Feb 2019 17:36

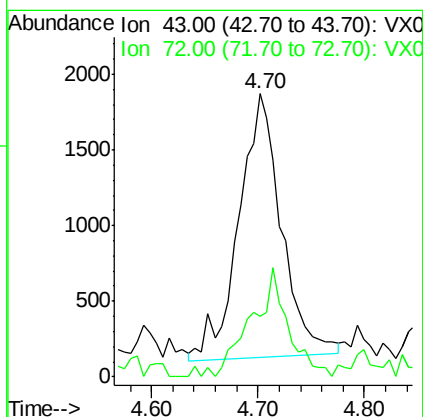
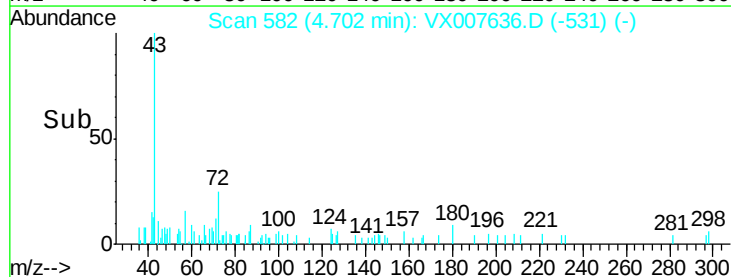
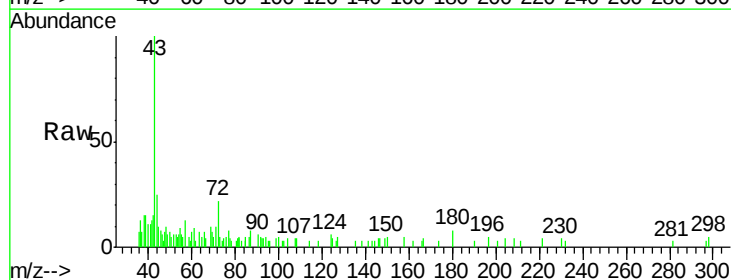
Instrument :
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PB117250ZHE#10

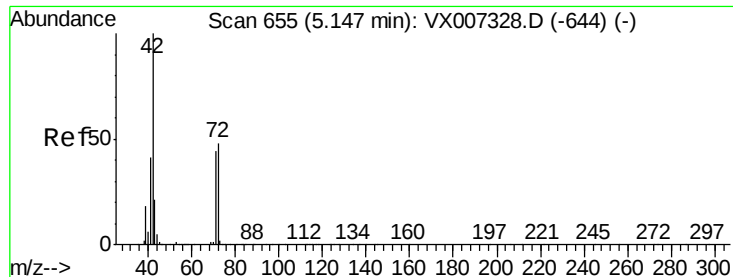
Tot Ion:	84	Resp:	11531
Ion	Ratio	Lower	Upper
84	100		
49	139.5	94.8	142.2
51	40.8	29.8	44.8
86	63.8	54.1	81.1



#25
2-Butanone
Concen: 1.598 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007636.D
Acq: 21 Feb 2019 17:36

Tgt Ion:	43	Resp:	4897
Ion	Ratio	Lower	Upper
43	100		
72	23.6	22.2	33.2

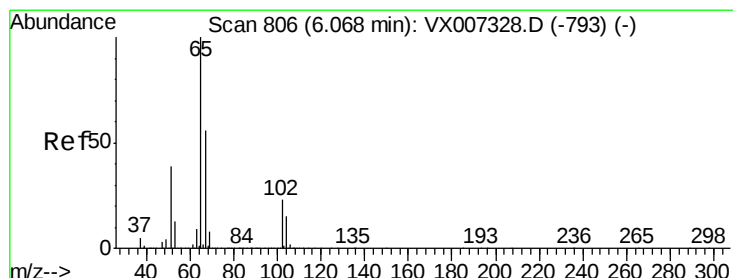
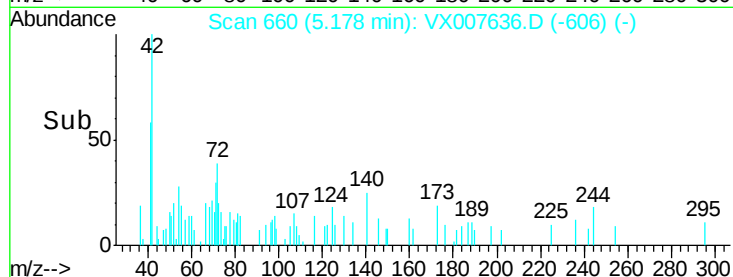
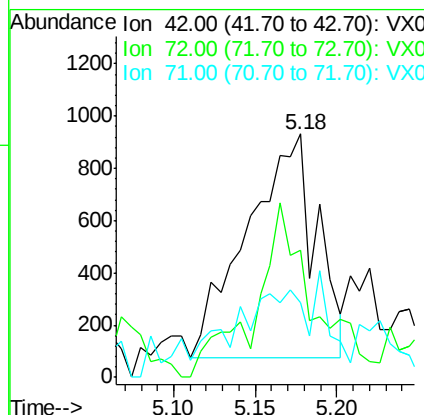
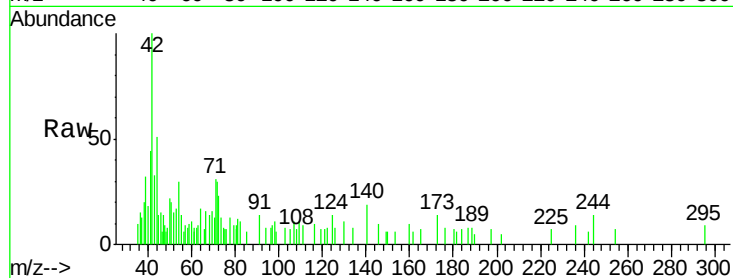




#29
Tetrahydrofuran
Concen: 1.314 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.03 min
Lab File: VX007636.D
Acq: 21 Feb 2019 17:36

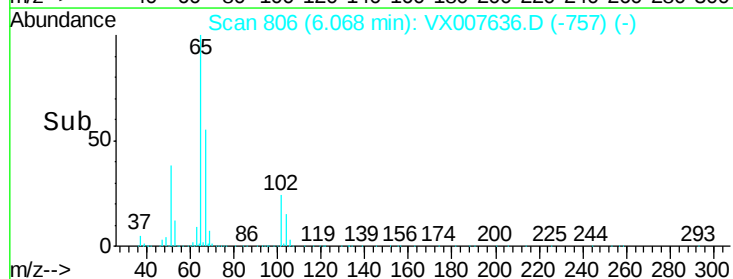
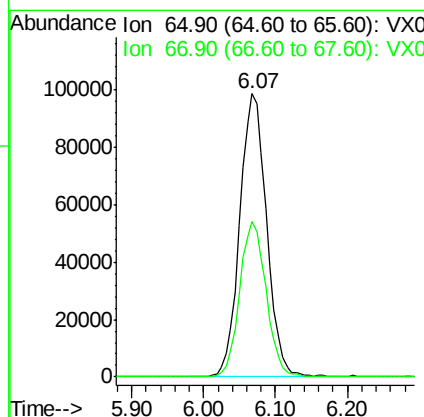
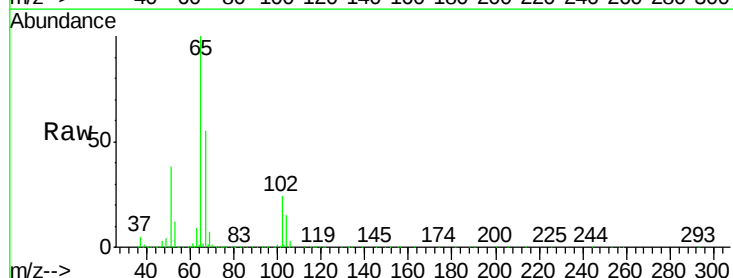
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#10

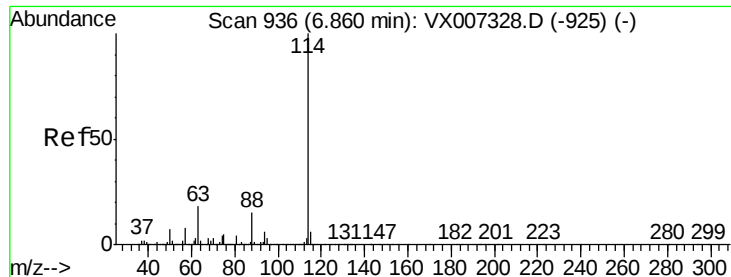
Tot Ion: 42 Resp: 2532
Ion Ratio Lower Upper
42 100
72 65.8 37.6 56.4#
71 36.7 34.6 51.8



#33
1,2-Dichloroethane-d4
Concen: 54.297 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007636.D
Acq: 21 Feb 2019 17:36

Tgt Ion: 65 Resp: 255175
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#10

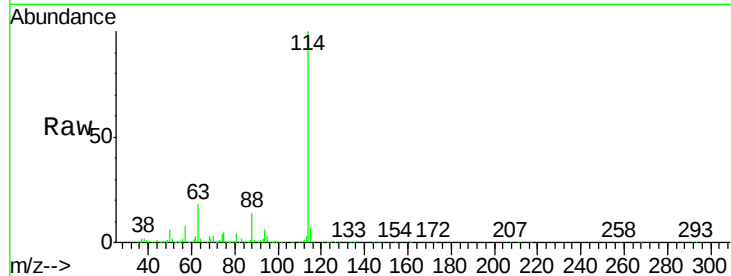
Tot Ion:114 Resp: 727286

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.6

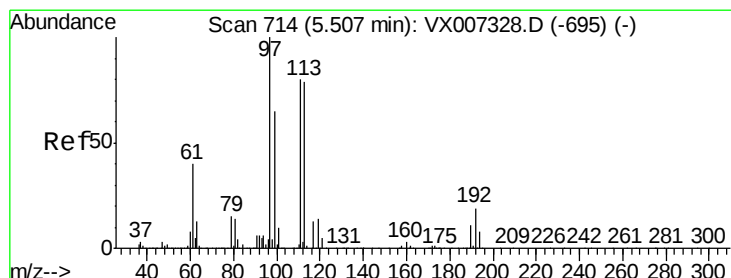
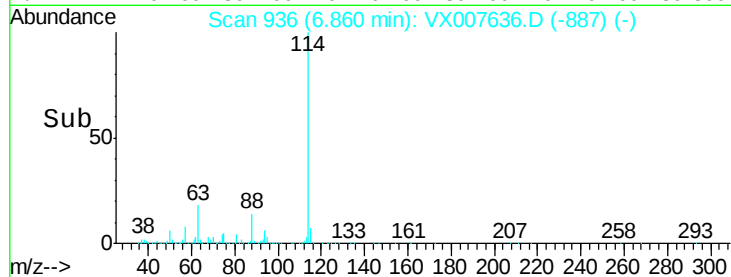
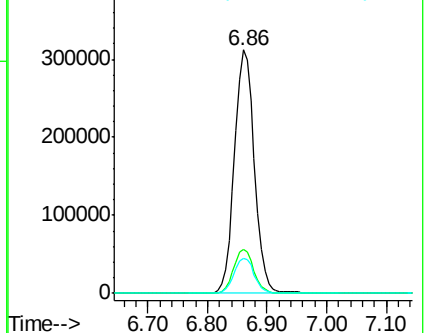
88 14.2 0.0 29.6



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: 50.704 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

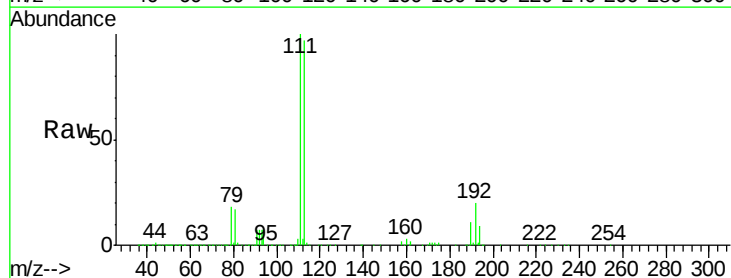
Tgt Ion:113 Resp: 239942

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

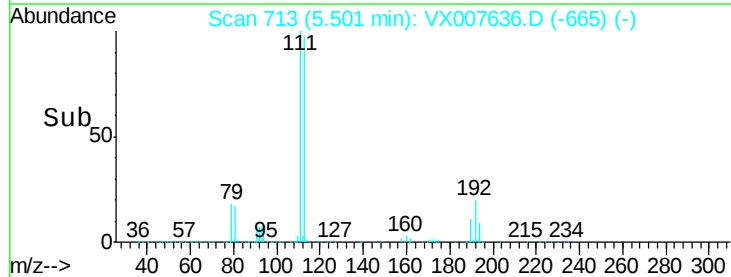
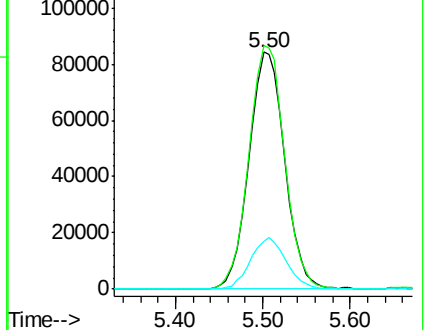
192 21.5 18.5 27.7

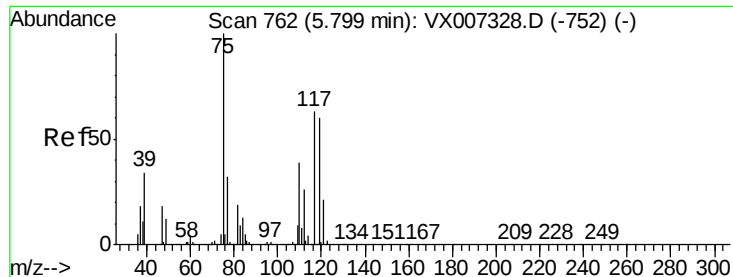


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

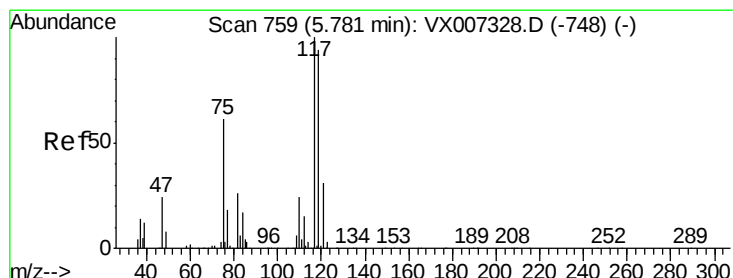
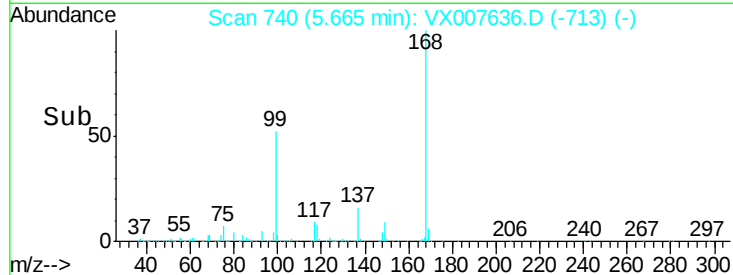
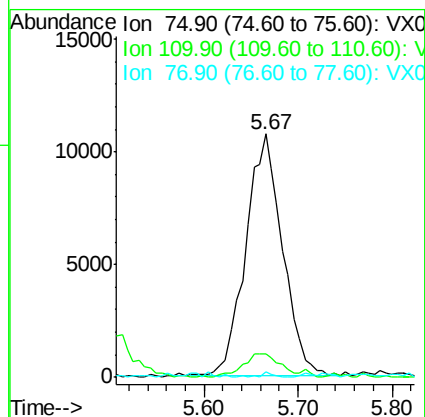
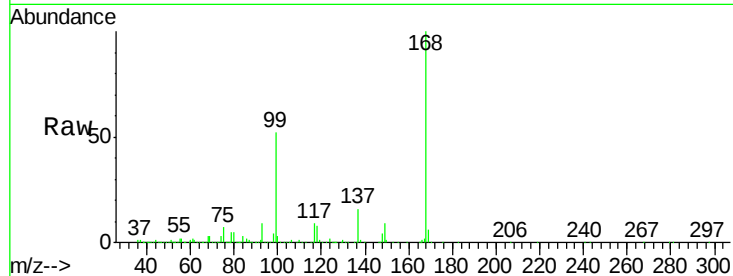




#36
 1,1-Dichloropropene
 Concen: 4.453 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007636.D
 Acq: 21 Feb 2019 17:36

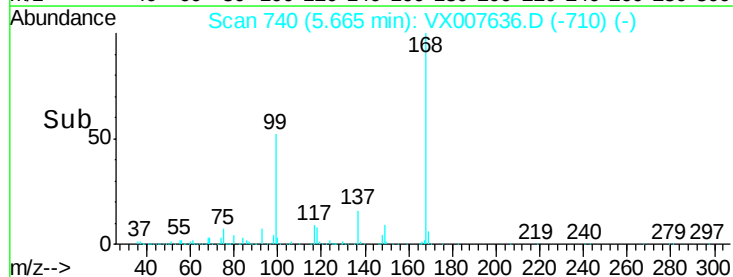
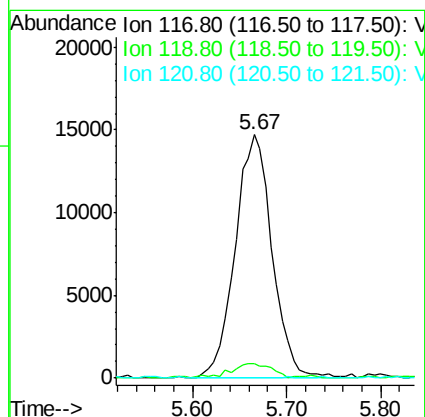
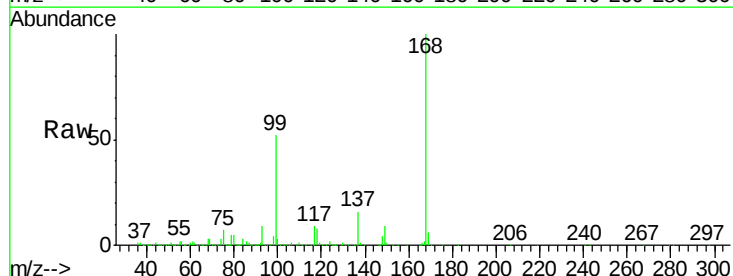
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#10

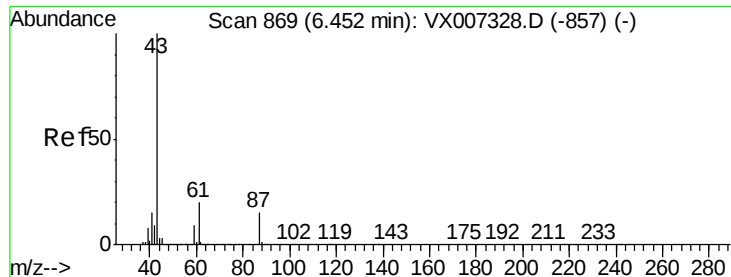
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	20.0	59.9#
77	0.6	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.361 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007636.D
 Acq: 21 Feb 2019 17:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.3	112.9#
121	0.0	25.0	37.4#



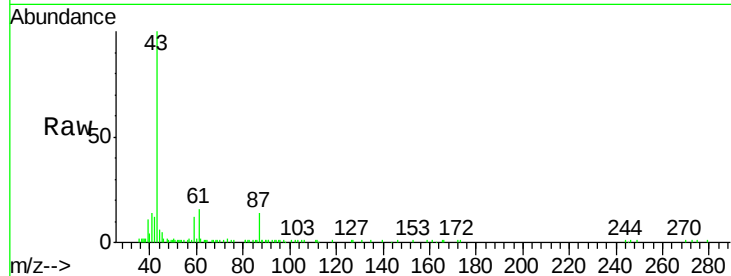


#43

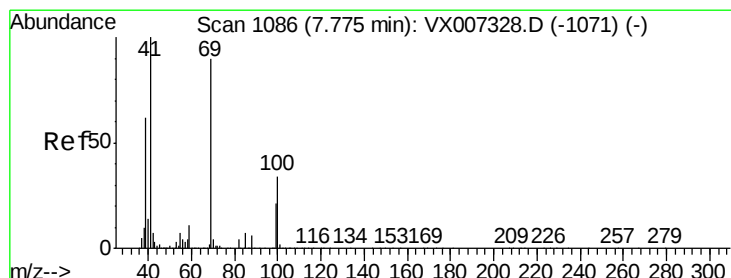
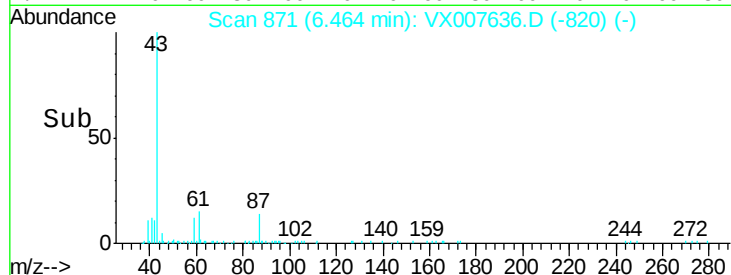
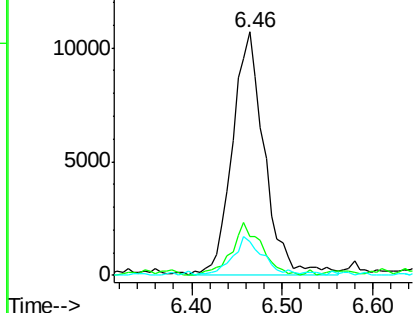
Isopropyl Acetate
 Concen: 2.604 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007636.D
 Acq: 21 Feb 2019 17:36

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#10

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.0	16.1	24.1
87	13.2	11.5	17.3



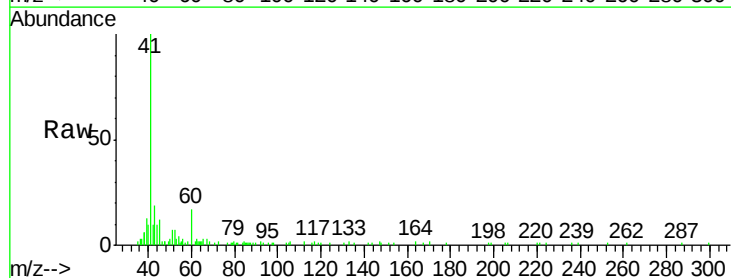
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



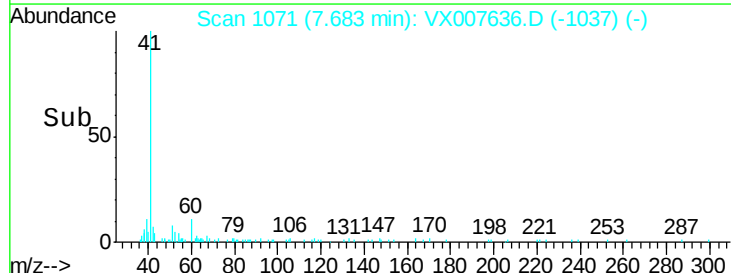
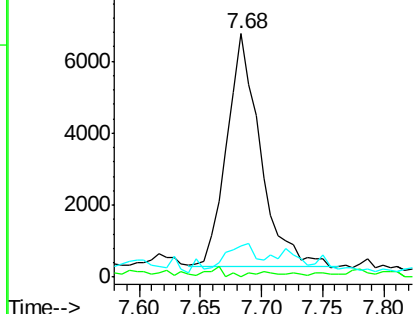
#48

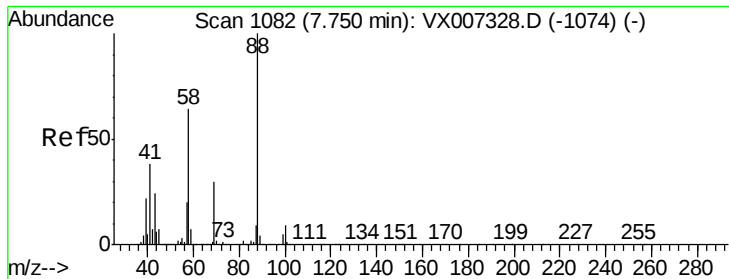
Methyl methacrylate
 Concen: 2.399 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007636.D
 Acq: 21 Feb 2019 17:36

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.7	70.2	105.4#
39	0.0	47.4	71.0#



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: 8.902 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#10

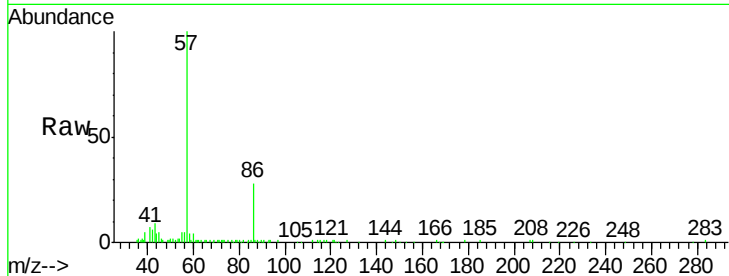
Tot Ion: 88 Resp: 236

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

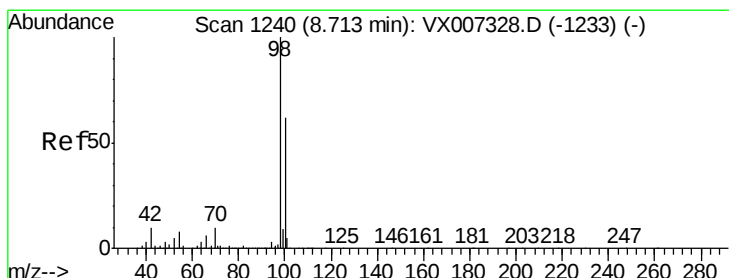
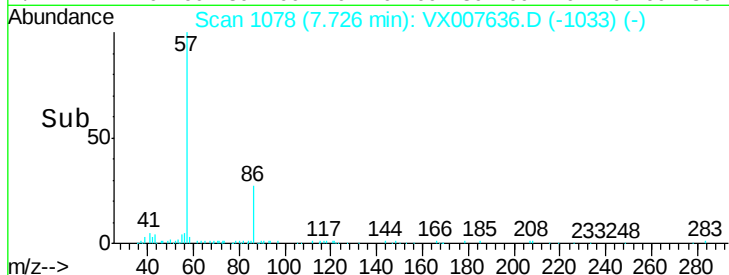
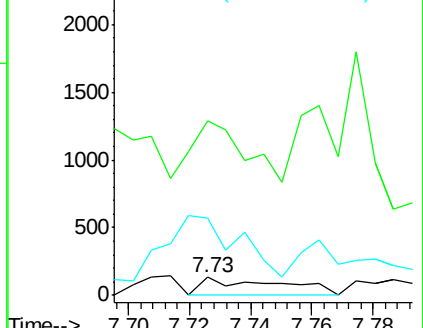
58 429.7 53.0 79.4#



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: 51.090 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007636.D

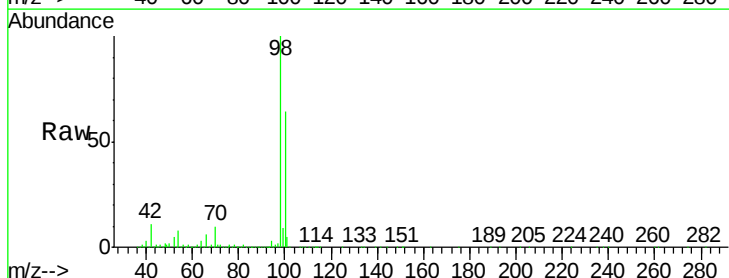
Acq: 21 Feb 2019 17:36

Tgt Ion: 98 Resp: 896997

Ion Ratio Lower Upper

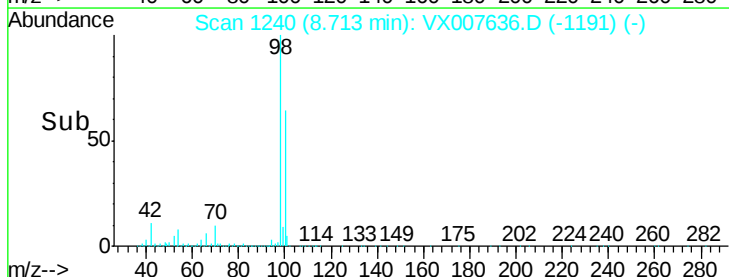
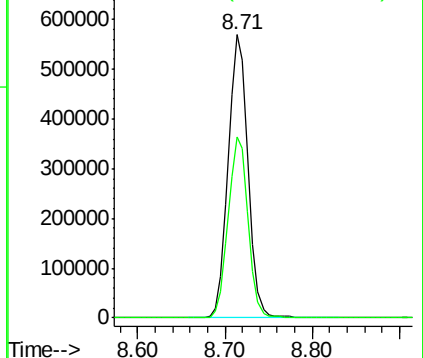
98 100

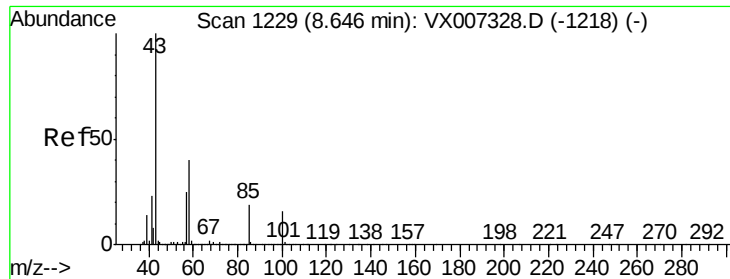
100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 19.056 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

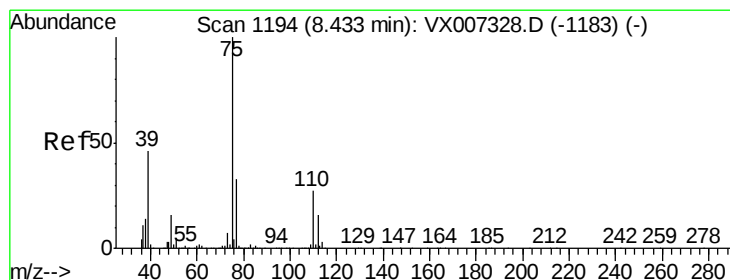
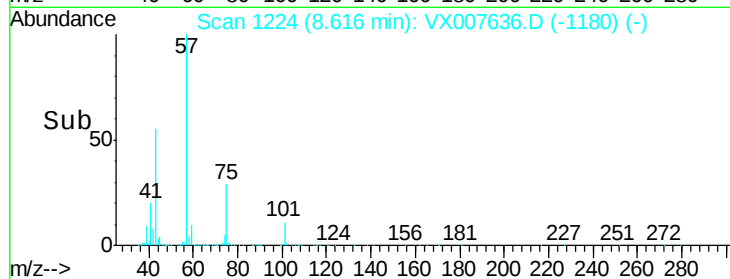
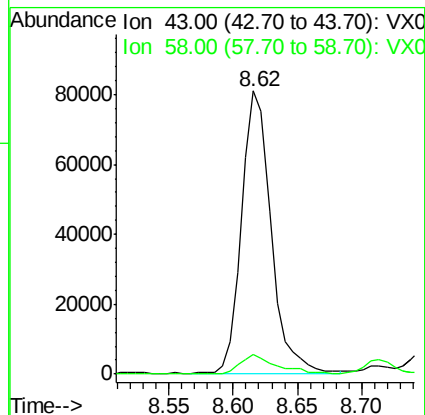
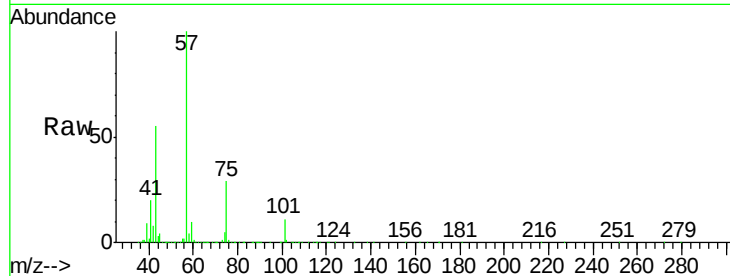
PB117250ZHE#10

Tot Ion: 43 Resp: 127725

Ion Ratio Lower Upper

43 100

58 8.7 31.2 46.8#



#54

cis-1,3-Dichloropropene

Concen: 9.153 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

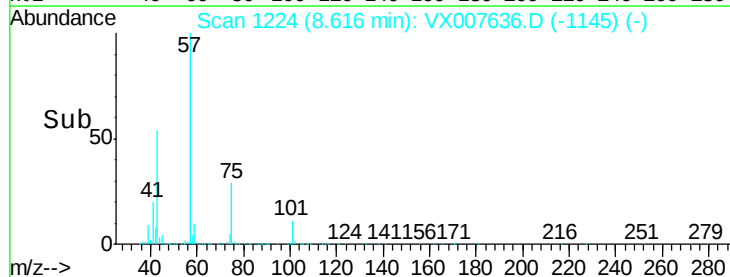
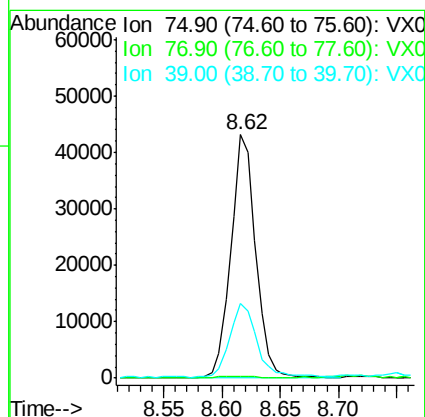
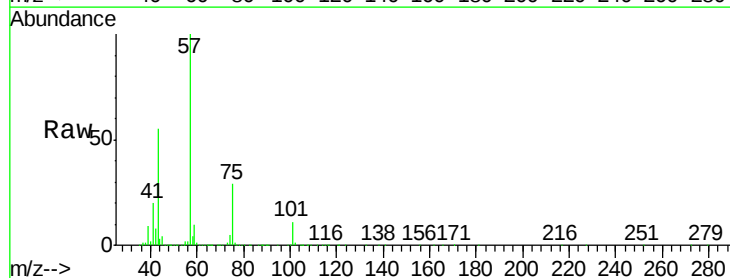
Tgt Ion: 75 Resp: 64139

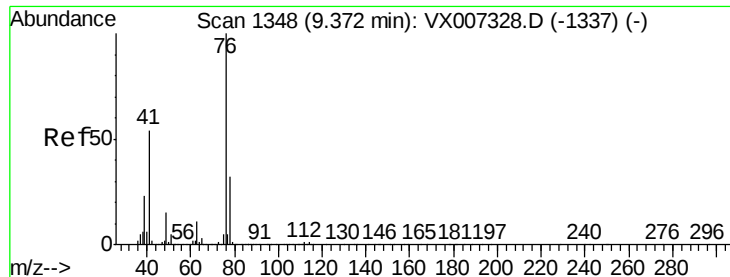
Ion Ratio Lower Upper

75 100

77 0.3 26.2 39.4#

39 30.8 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 1.851 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

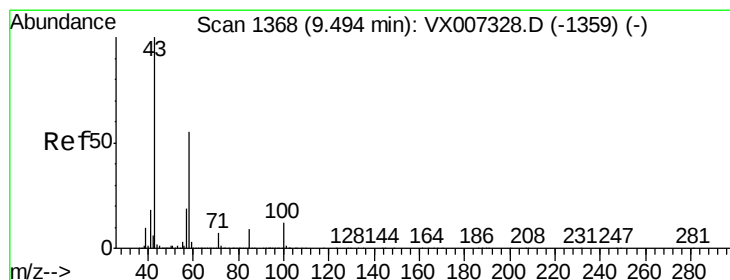
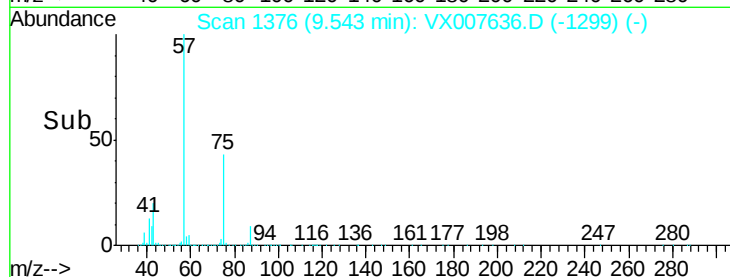
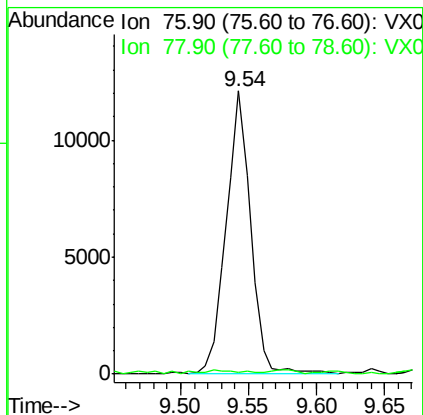
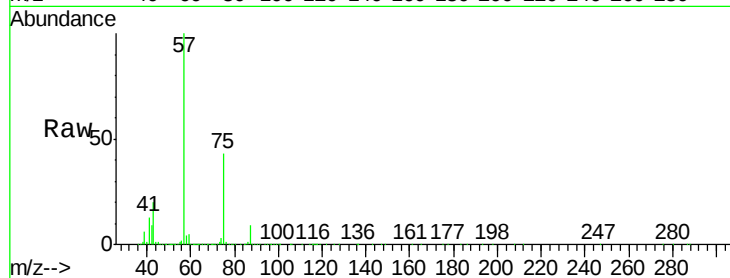
PB117250ZHE#10

Tot Ion: 76 Resp: 15220

Ion Ratio Lower Upper

76 100

78 2.6 25.8 38.8#



#59

2-Hexanone

Concen: 38.997 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007636.D

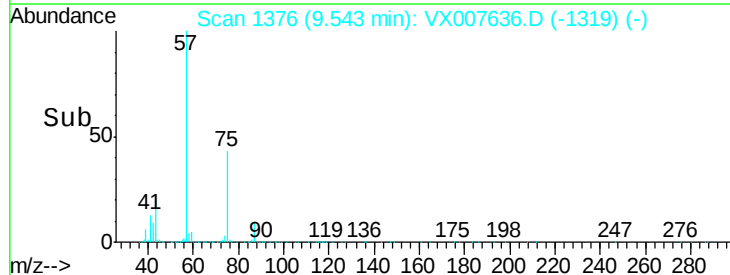
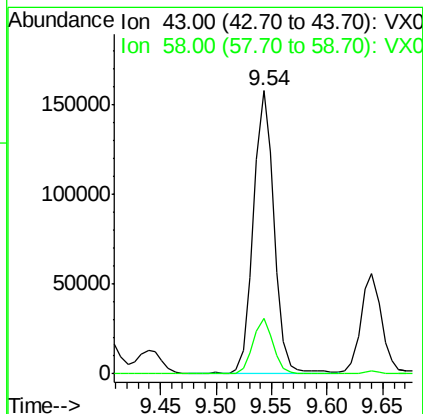
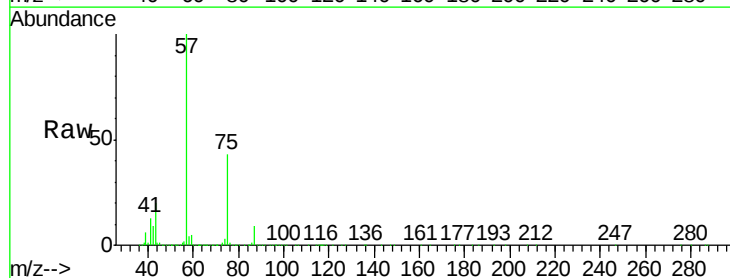
Acq: 21 Feb 2019 17:36

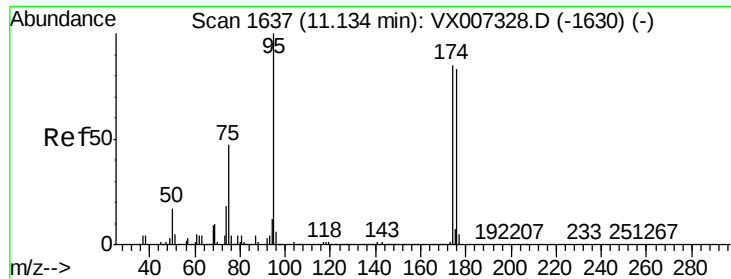
Tgt Ion: 43 Resp: 203400

Ion Ratio Lower Upper

43 100

58 19.7 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 48.149 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#10

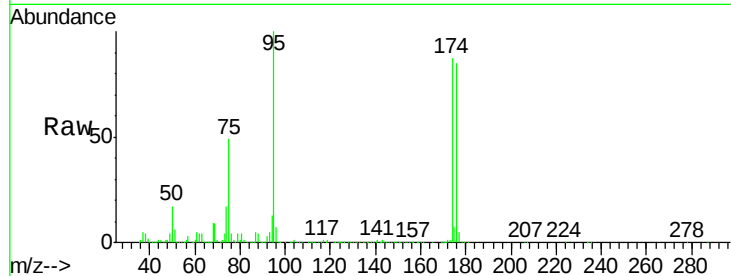
Tot Ion: 95 Resp: 308642

Ion Ratio Lower Upper

95 100

174 93.3 0.0 189.2

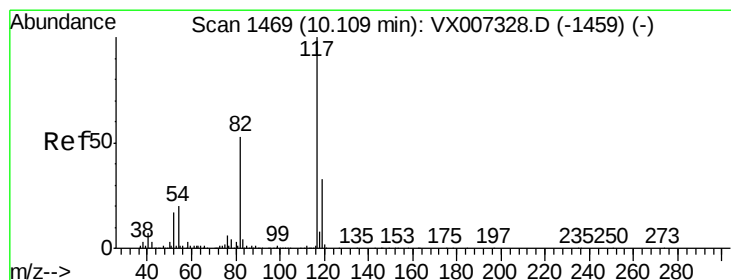
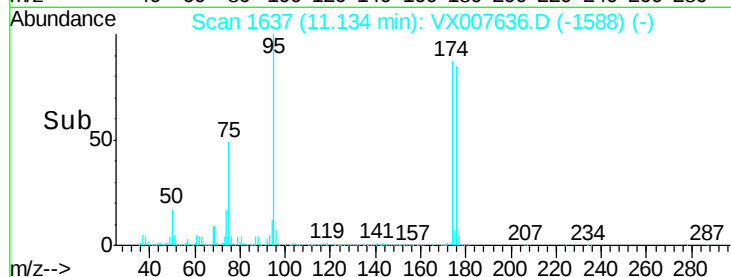
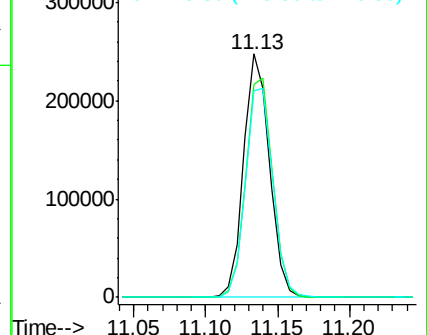
176 90.4 0.0 186.2



Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX007328.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX007328.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

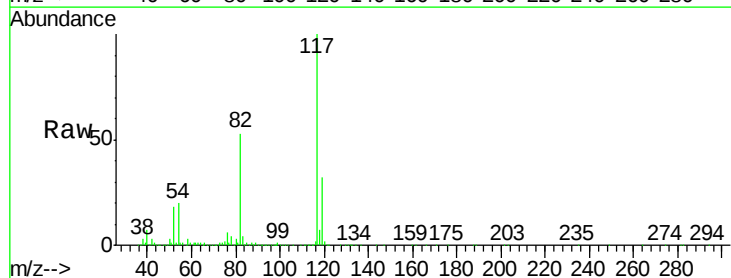
Tgt Ion: 117 Resp: 704669

Ion Ratio Lower Upper

117 100

82 52.9 42.1 63.1

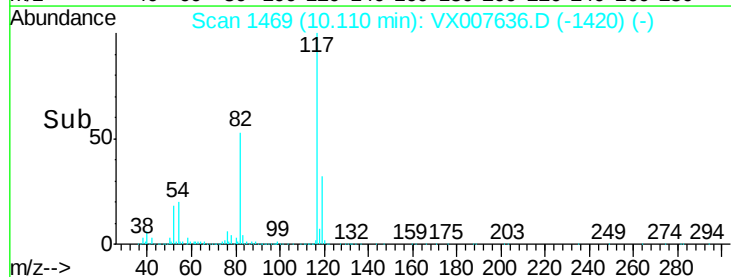
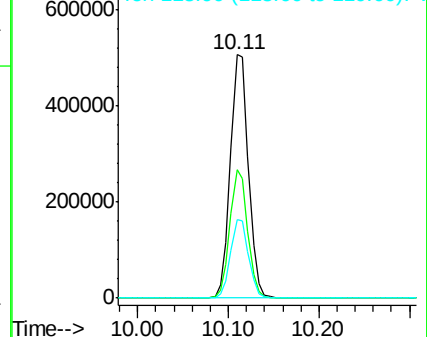
119 32.1 26.5 39.7

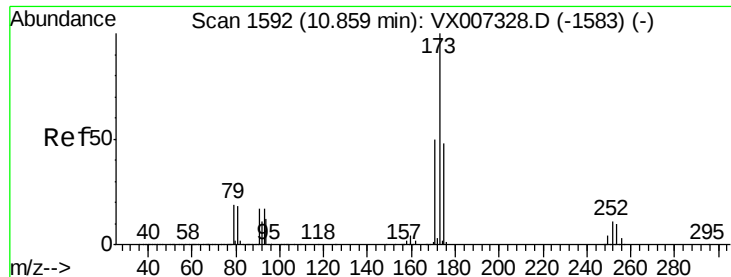


Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

Ion 82.00 (81.70 to 82.70): VX007328.D (-1459) (-)

Ion 118.90 (118.60 to 119.60): VX007328.D (-1459) (-)





#71

Bromoform

Concen: 4.053 ug/l

RT: 10.99 min Scan# 1613

Delta R.T. 0.13 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#10

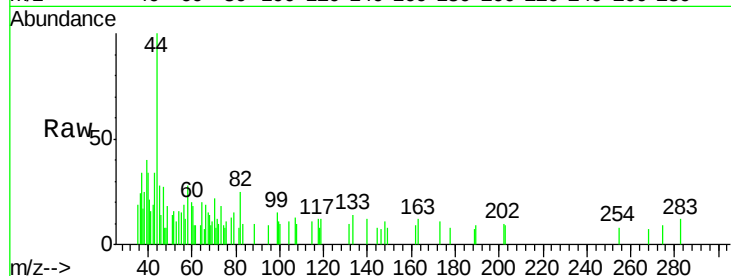
Tot Ion:173 Resp: 118

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

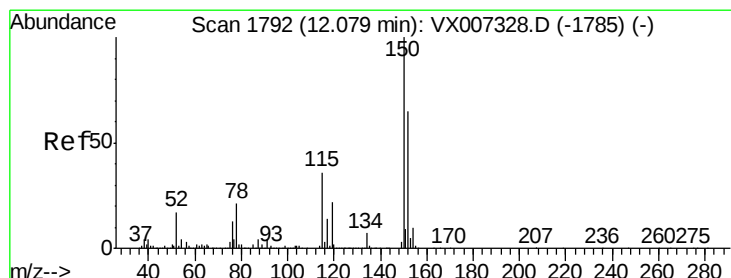
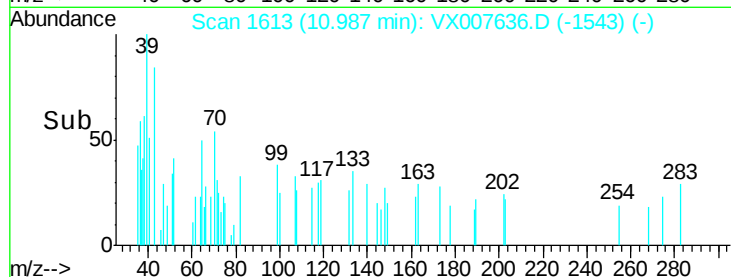
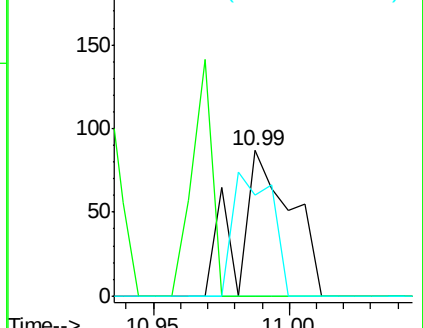
254 61.9 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

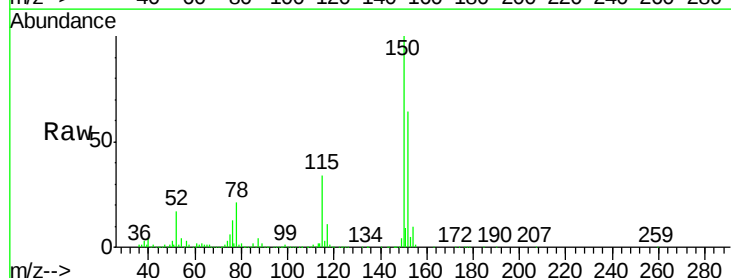
Tgt Ion:152 Resp: 329980

Ion Ratio Lower Upper

152 100

115 54.8 38.0 114.0

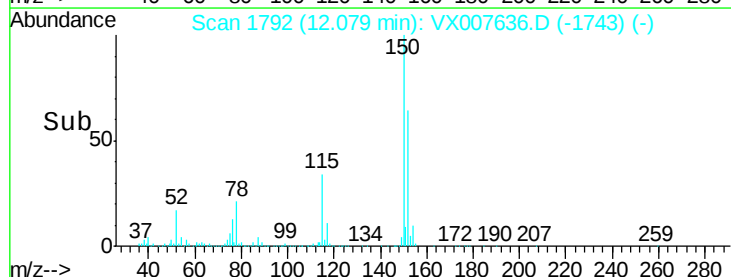
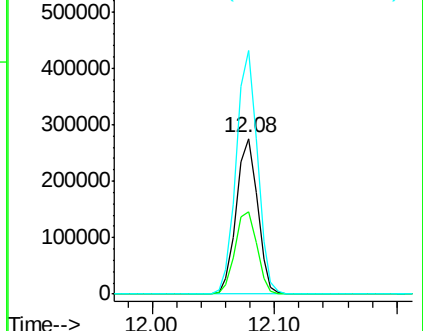
150 156.1 0.0 346.4

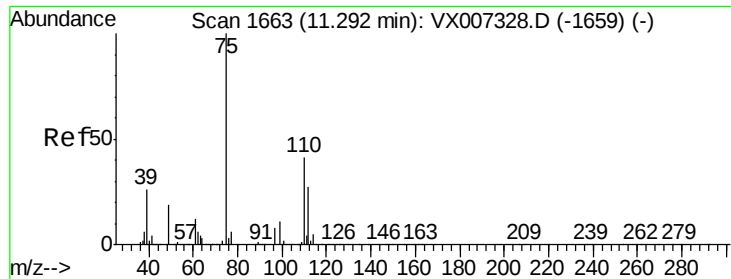


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.259 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

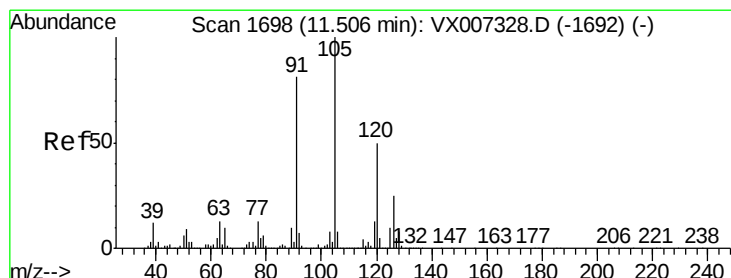
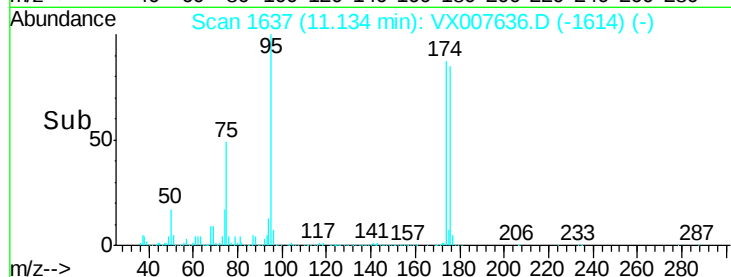
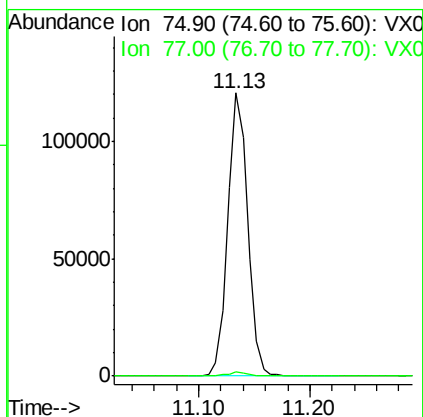
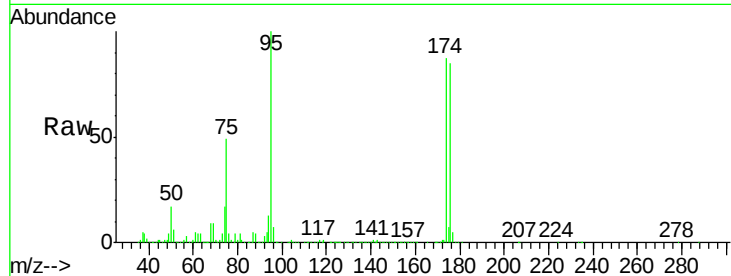
PB117250ZHE#10

Tot Ion: 75 Resp: 149286

Ion Ratio Lower Upper

75 100

77 1.4 23.0 69.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.552 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007636.D

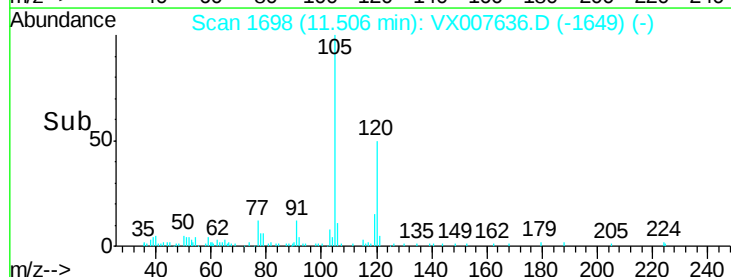
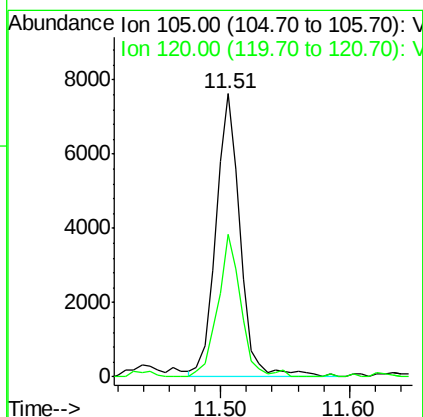
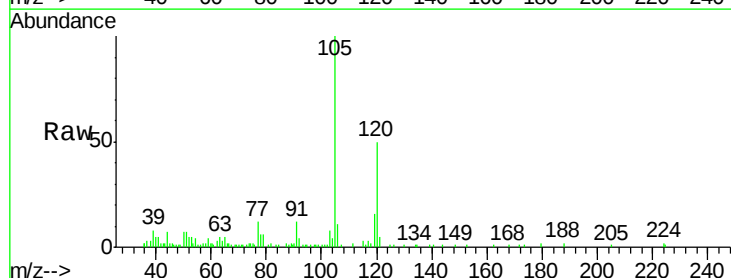
Acq: 21 Feb 2019 17:36

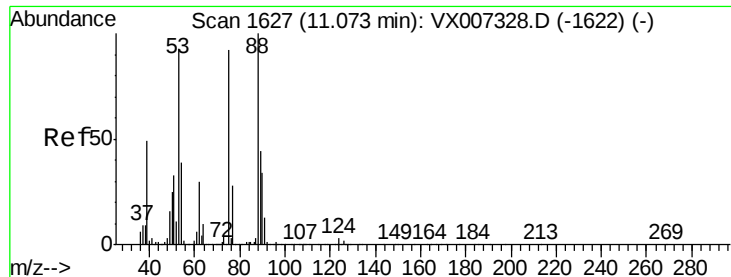
Tgt Ion: 105 Resp: 10128

Ion Ratio Lower Upper

105 100

120 48.2 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 70.039 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007636.D

Acq: 21 Feb 2019 17:36

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#10

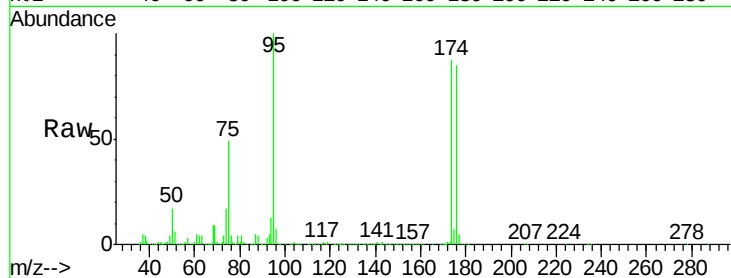
Tot Ion: 75 Resp: 149286

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 41.4 62.0#



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

