

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020519\
 Data File : VX007380.D
 Acq On : 05 Feb 2019 16:45
 Operator : JC/SP
 Sample : PB116824ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116824ZHE#06

Quant Time: Feb 06 00:18:53 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	5.66	168	466937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	721644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	665750	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	334196	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	257500	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
35) Dibromofluoromethane	5.50	113	228715	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
50) Toluene-d8	8.71	98	879830	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
62) 4-Bromofluorobenzene	11.14	95	296012	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	

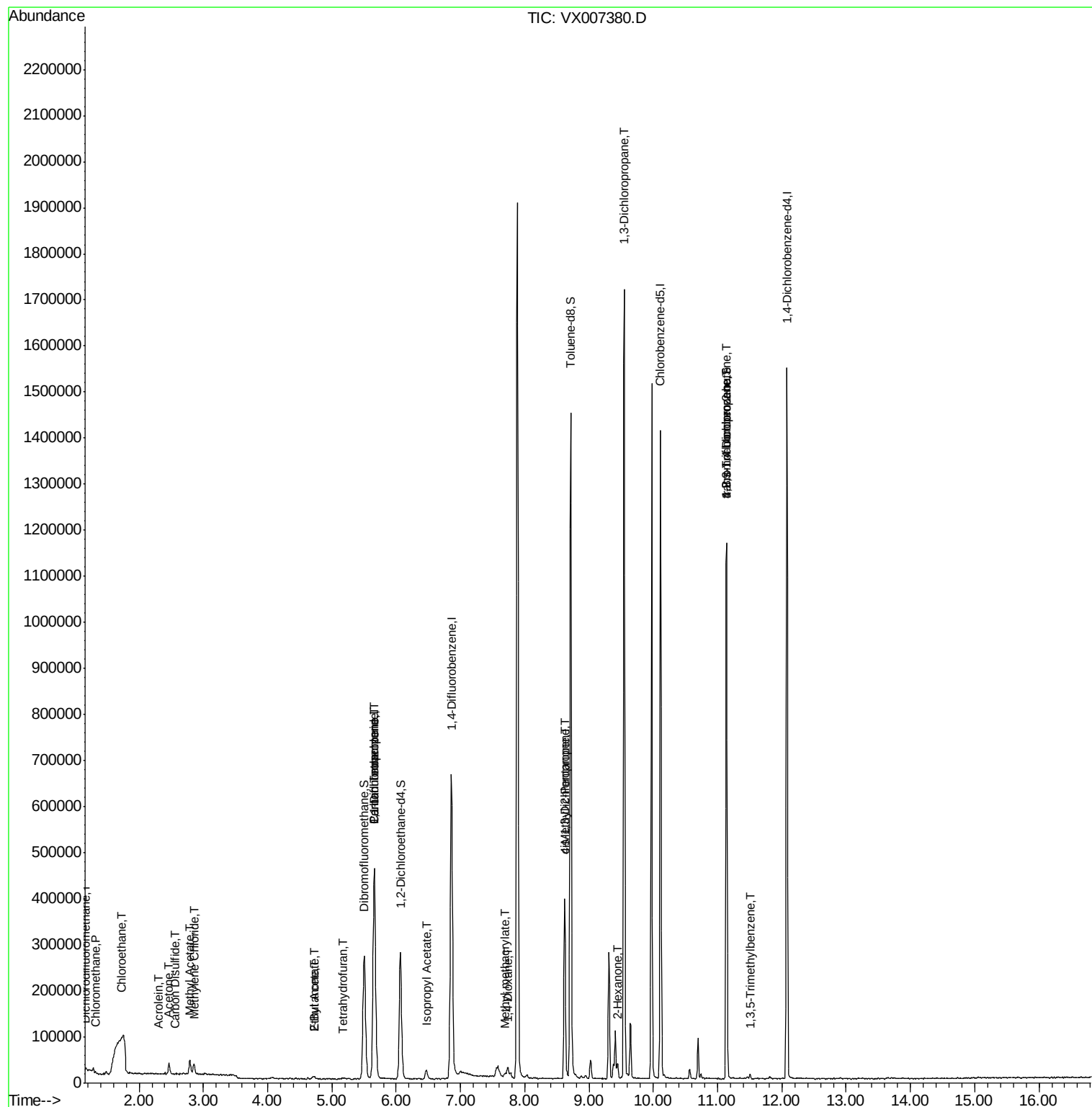
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	163	0.206	ug/l	76
3) Chloromethane	1.33	50	1953	0.371	ug/l #	85
5) Bromomethane	1.64	94	1338	Below Cal	#	43
6) Chloroethane	1.73	64	713	0.214	ug/l #	54
13) Acrolein	2.30	56	306	0.636	ug/l #	14
16) Acetone	2.46	43	27492	12.109	ug/l	94
17) Carbon Disulfide	2.55	76	1415	2.237	ug/l #	30
18) Methyl Acetate	2.79	43	43974	7.939	ug/l	98
20) Methylene Chloride	2.85	84	10663	1.921	ug/l	94
25) 2-Butanone	4.72	43	10892	3.371	ug/l	90
29) Tetrahydrofuran	5.17	42	2196	1.081	ug/l #	80
36) 1,1-Dichloropropene	5.66	75	30063	4.643	ug/l #	48
37) Ethyl Acetate	4.72	43	10892	1.664	ug/l #	73
38) Carbon Tetrachloride	5.66	117	42423	6.753	ug/l #	17
43) Isopropyl Acetate	6.47	43	25737	2.548	ug/l	94
48) Methyl methacrylate	7.70	41	14988	2.966	ug/l #	24
49) 1,4-Dioxane	7.73	88	155	8.218	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	131572	19.783	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	65430	9.410	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	15313	1.877	ug/l #	45
59) 2-Hexanone	9.45	43	20925	4.043	ug/l #	24
76) 1,2,3-Trichloropropane	11.13	75	145639	22.404	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	4041	0.217	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.13	75	145639	67.621	ug/l #	9

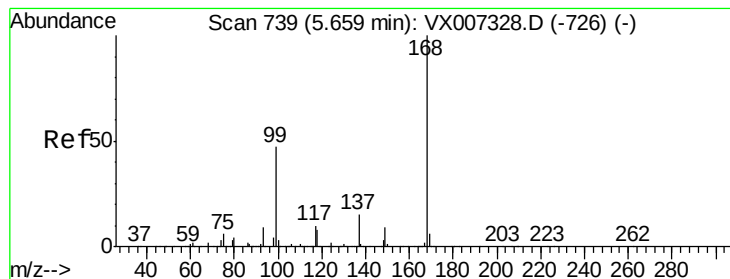
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 06 00:18:53 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: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

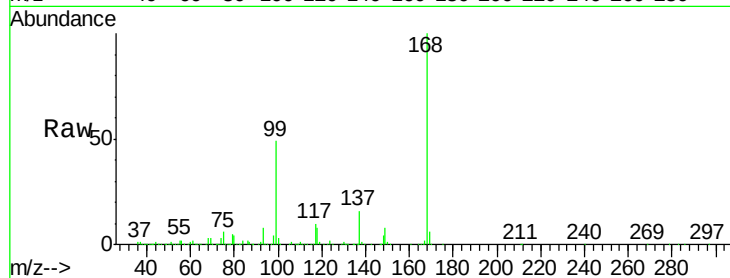
PB116824ZHE#06

Tot Ion:168 Resp: 466937

Ion Ratio Lower Upper

168 100

99 49.2 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

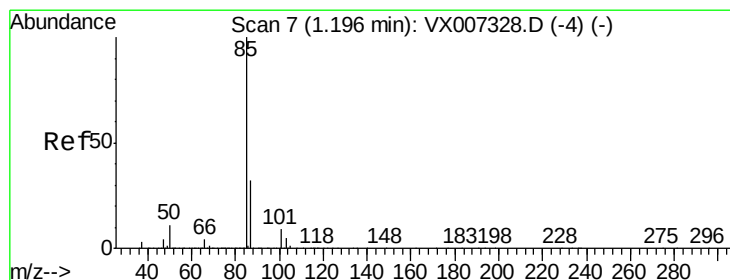
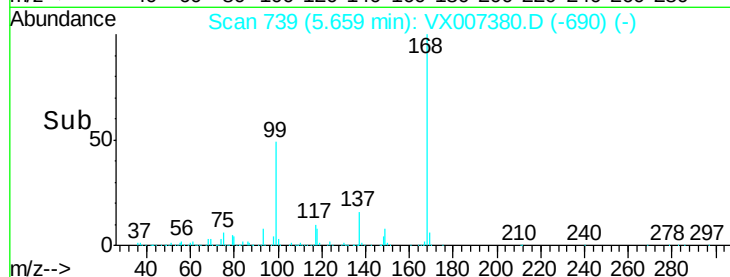
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.206 ug/l

RT: 1.18 min Scan# 4

Delta R.T. -0.02 min

Lab File: VX007380.D

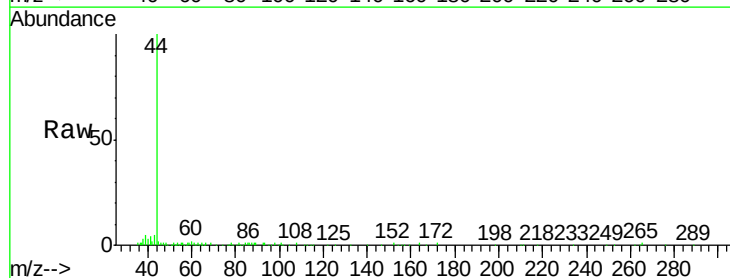
Acq: 05 Feb 2019 16:45

Tgt Ion: 85 Resp: 163

Ion Ratio Lower Upper

85 100

87 44.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

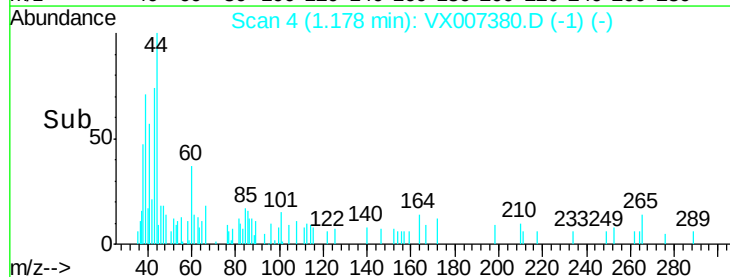
300

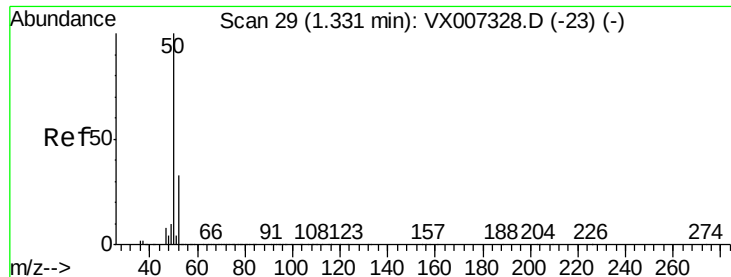
200

100

0

Time--> 1.16 1.17 1.18 1.19 1.20





#3

Chloromethane

Concen: 0.371 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

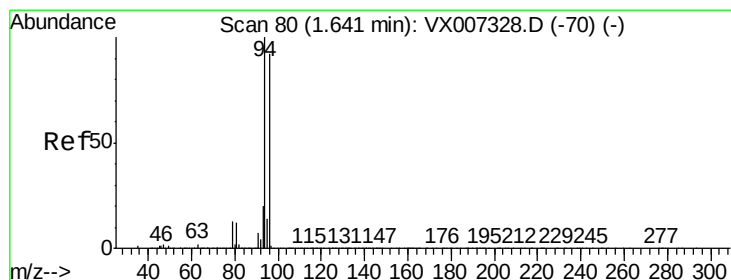
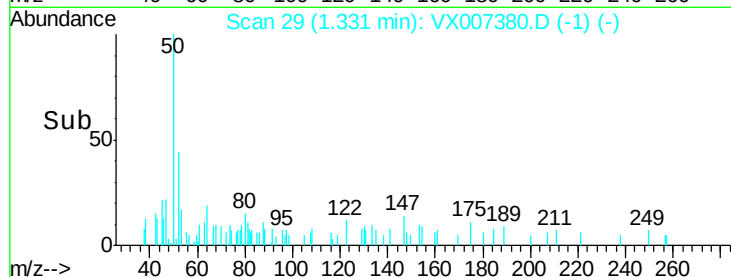
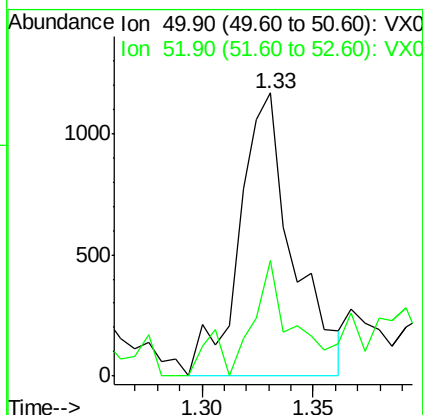
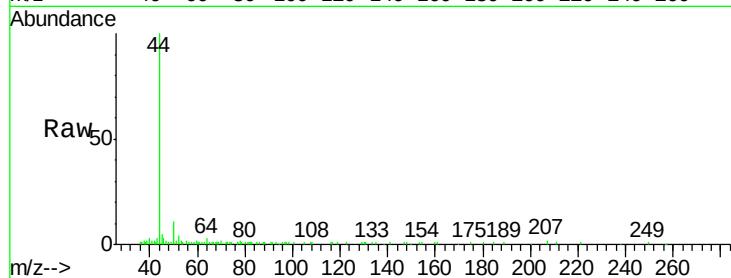
PB116824ZHE#06

Tot Ion: 50 Resp: 1953

Ion Ratio Lower Upper

50 100

52 41.0 26.1 39.1#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007380.D

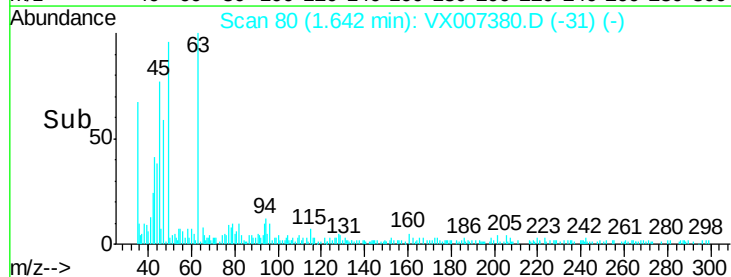
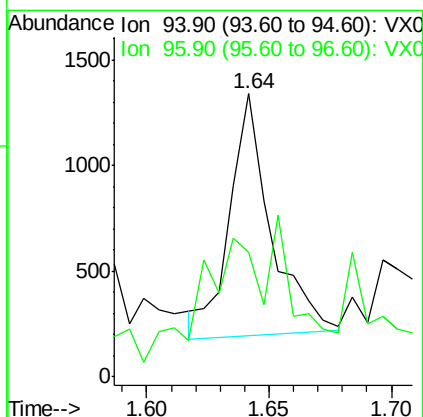
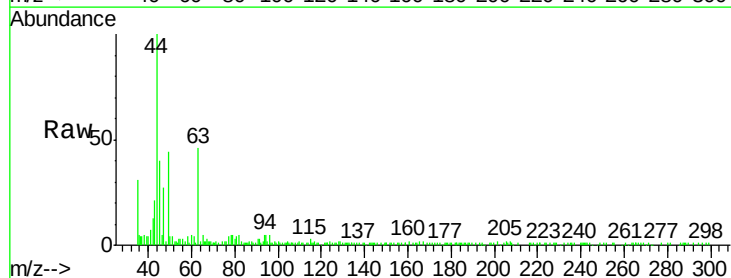
Acq: 05 Feb 2019 16:45

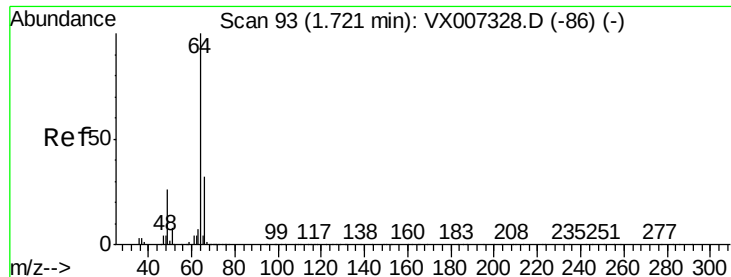
Tgt Ion: 94 Resp: 1338

Ion Ratio Lower Upper

94 100

96 37.8 73.9 110.9#





#6

Chloroethane

Concen: 0.214 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

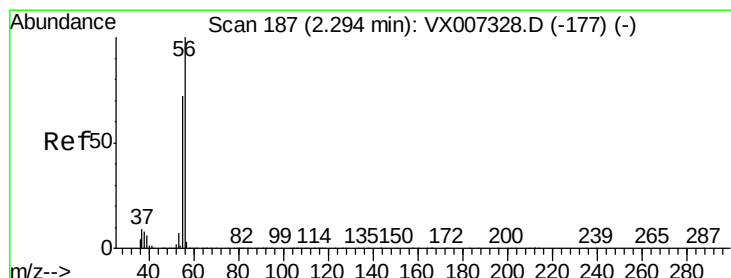
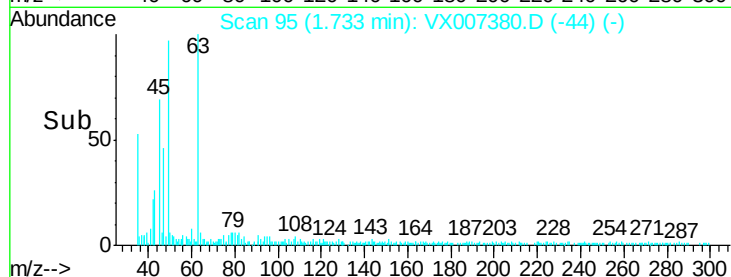
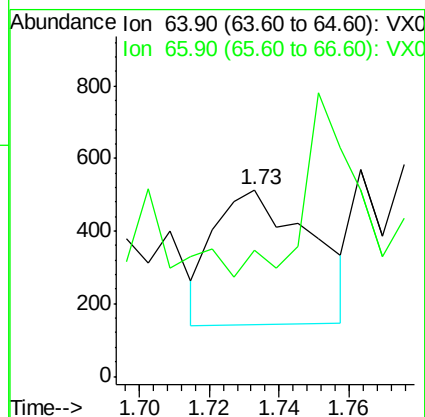
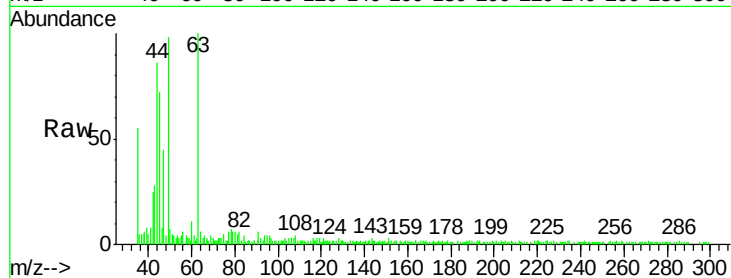
PB116824ZHE#06

Tot Ion: 64 Resp: 713

Ion Ratio Lower Upper

64 100

66 6.3 25.5 38.3#



#13

Acrolein

Concen: 0.636 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007380.D

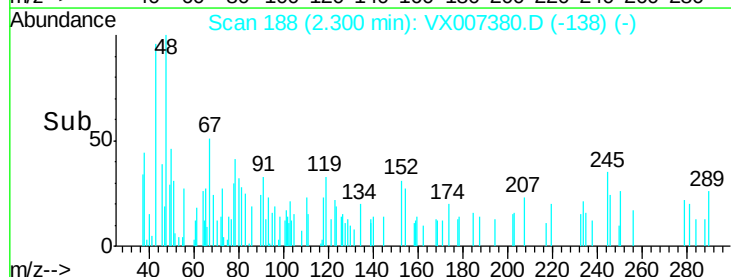
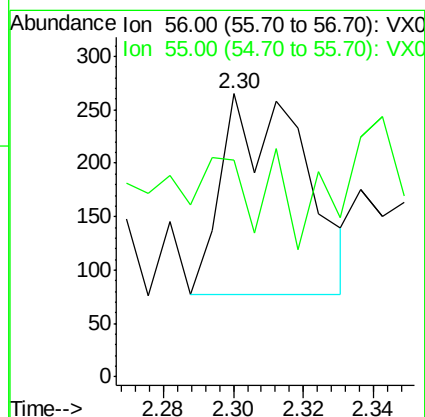
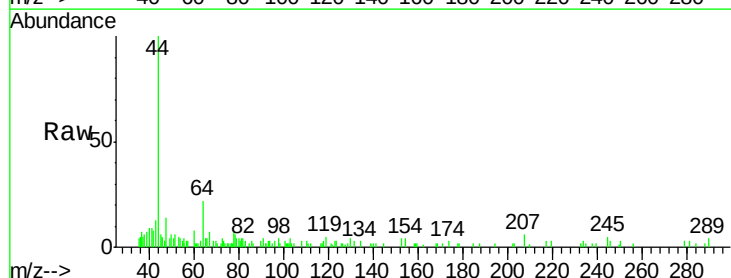
Acq: 05 Feb 2019 16:45

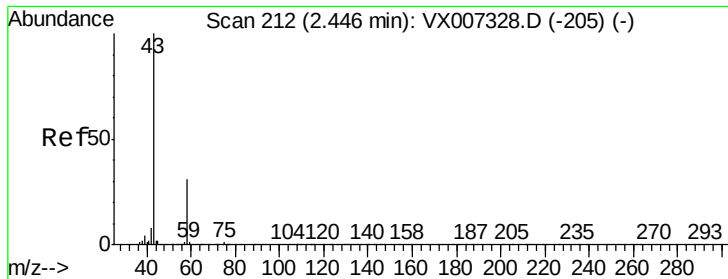
Tgt Ion: 56 Resp: 306

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#





#16

Acetone

Concen: 12.109 ug/l

RT: 2.46 min Scan# 215

Delta R.T. 0.02 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

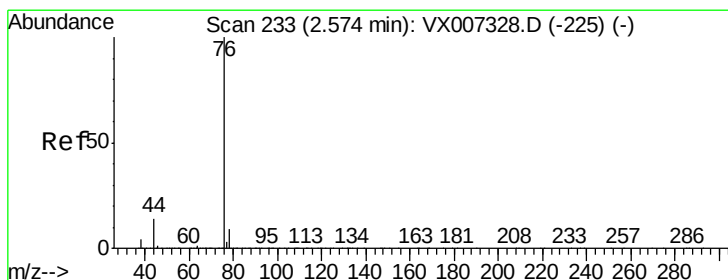
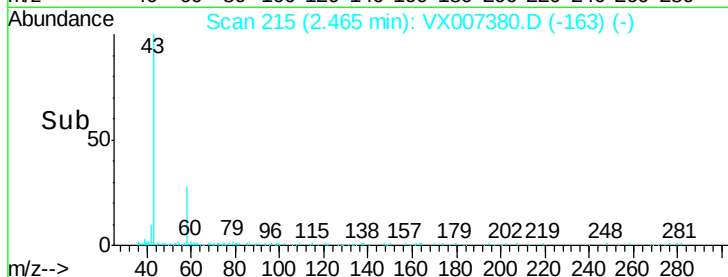
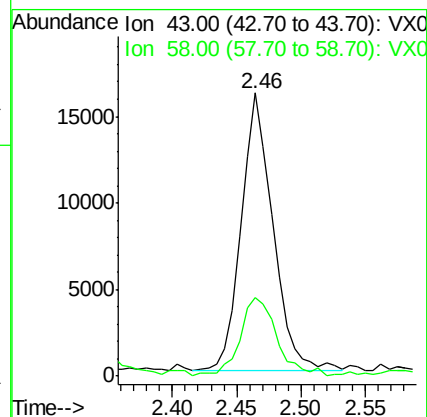
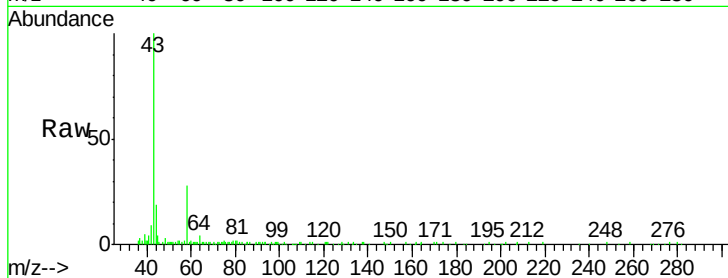
PB116824ZHE#06

Tot Ion: 43 Resp: 27492

Ion Ratio Lower Upper

43 100

58 27.8 24.9 37.3



#17

Carbon Disulfide

Concen: 2.237 ug/l

RT: 2.55 min Scan# 229

Delta R.T. -0.02 min

Lab File: VX007380.D

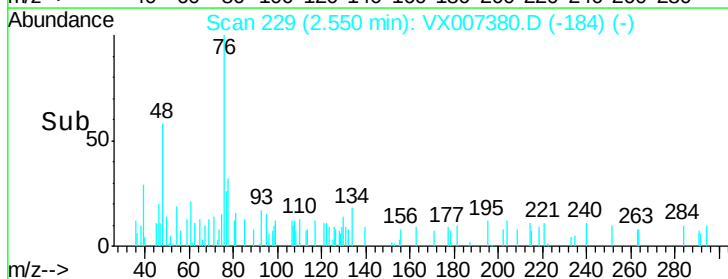
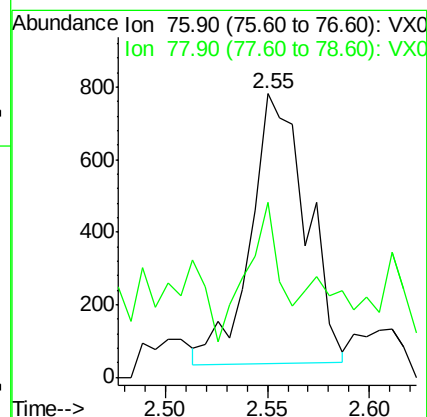
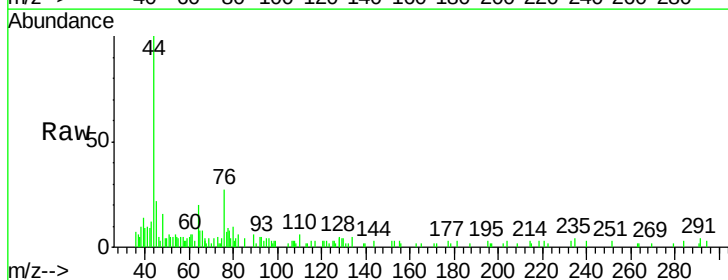
Acq: 05 Feb 2019 16:45

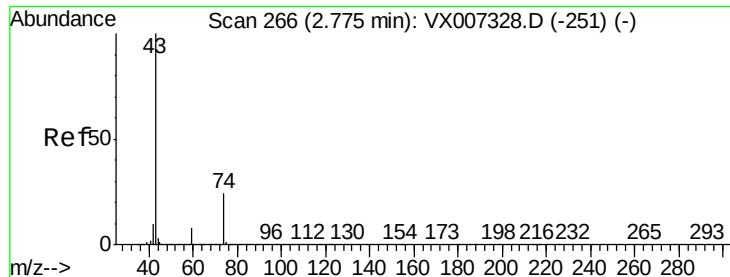
Tgt Ion: 76 Resp: 1415

Ion Ratio Lower Upper

76 100

78 34.2 7.1 10.7#

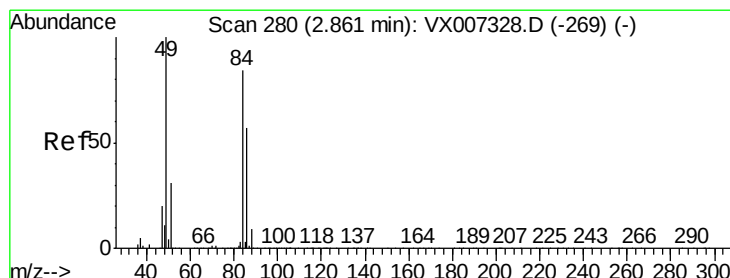
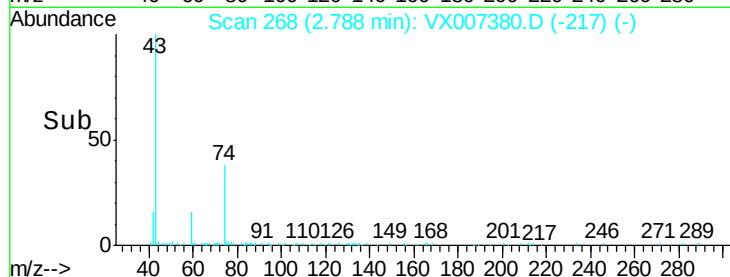
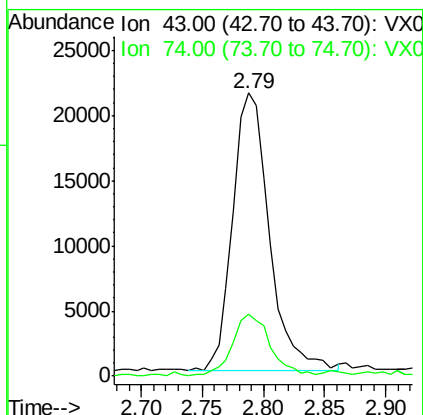
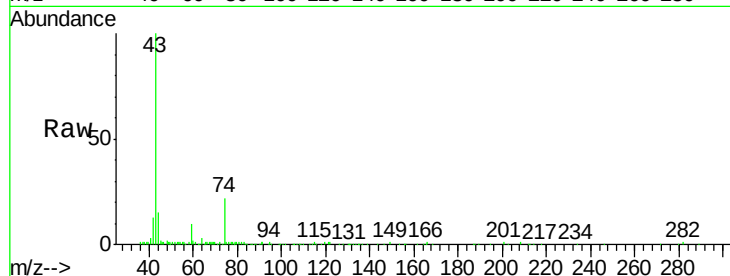




#18
Methyl Acetate
Concen: 7.939 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007380.D
Acq: 05 Feb 2019 16:45

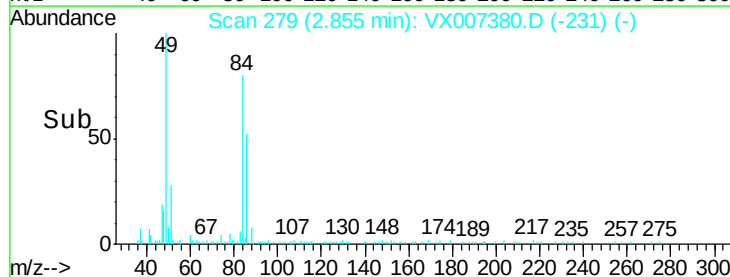
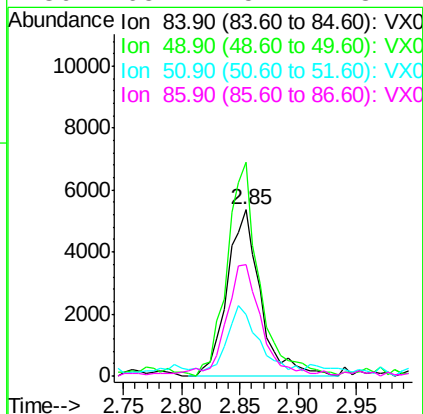
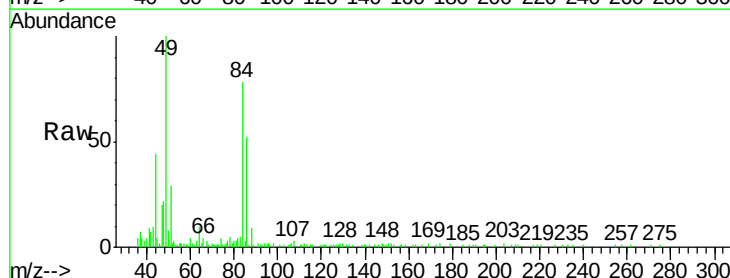
Instrument :
MSVOA_X
ClientSampleId :
PB116824ZHE#06

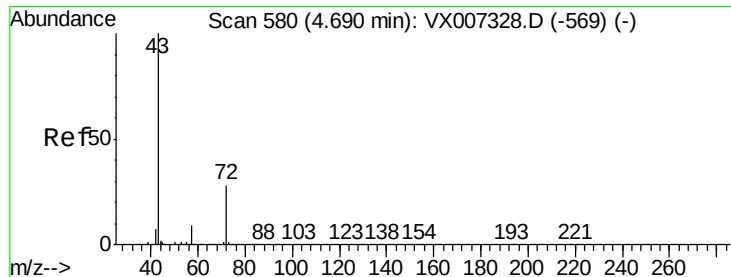
Tot Ion: 43 Resp: 43974
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.2



#20
Methylene Chloride
Concen: 1.921 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007380.D
Acq: 05 Feb 2019 16:45

Tgt Ion: 84 Resp: 10663
Ion Ratio Lower Upper
84 100
49 127.4 94.8 142.2
51 33.7 29.8 44.8
86 65.7 54.1 81.1





#25

2-Butanone

Concen: 3.371 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.03 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

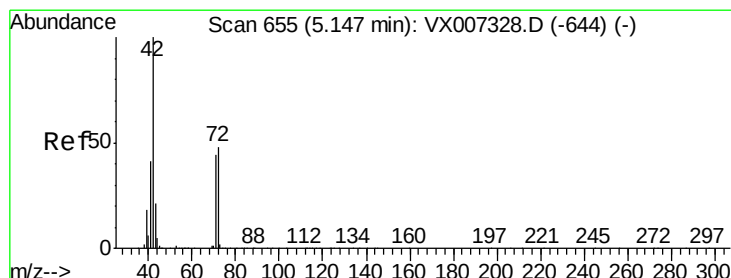
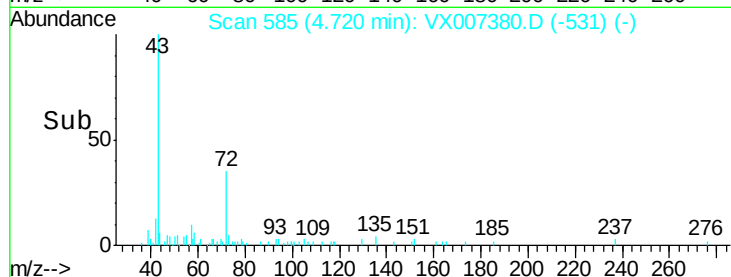
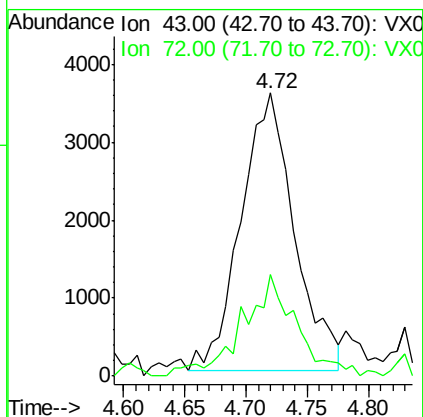
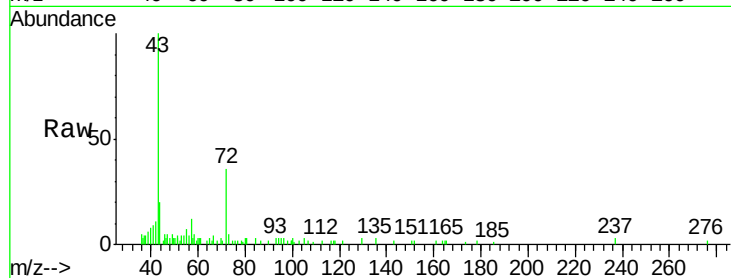
PB116824ZHE#06

Tot Ion: 43 Resp: 10892

Ion Ratio Lower Upper

43 100

72 33.0 22.2 33.2



#29

Tetrahydrofuran

Concen: 1.081 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

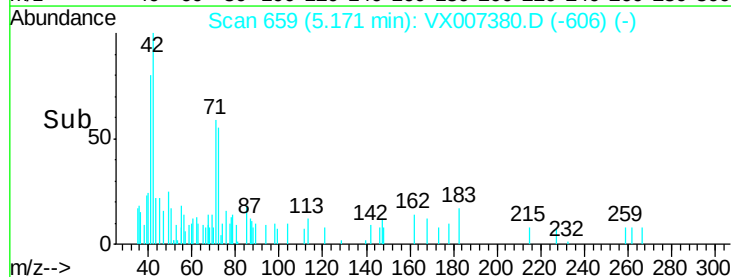
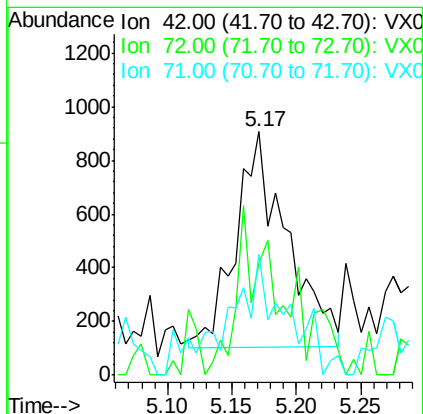
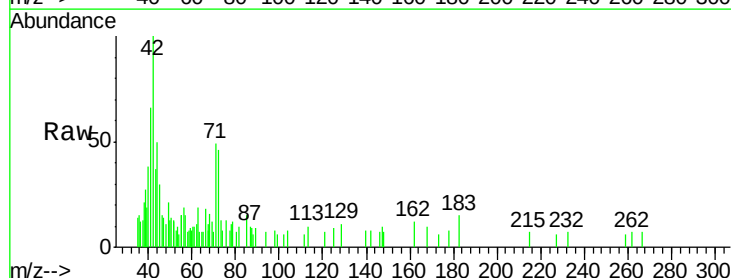
Tgt Ion: 42 Resp: 2196

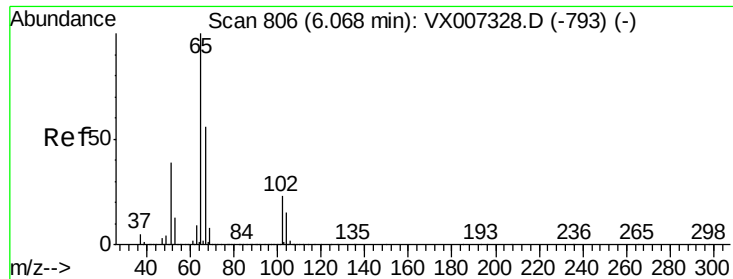
Ion Ratio Lower Upper

42 100

72 50.4 37.6 56.4

71 66.7 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 51.956 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

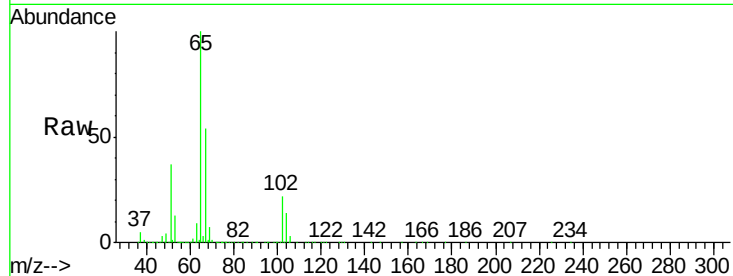
PB116824ZHE#06

Tot Ion: 65 Resp: 257500

Ion Ratio Lower Upper

65 100

67 53.3 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

100000

80000

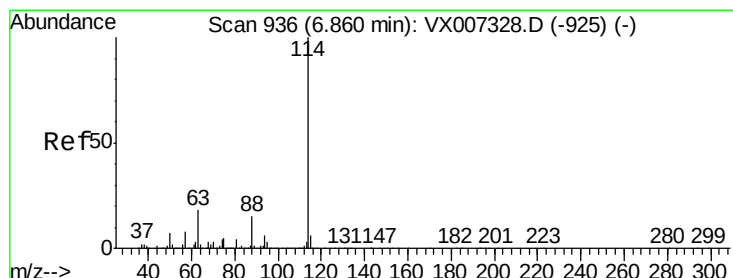
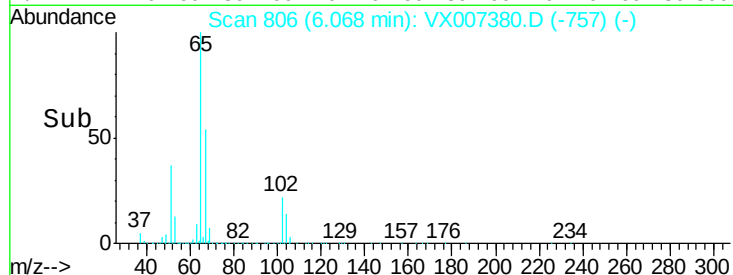
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

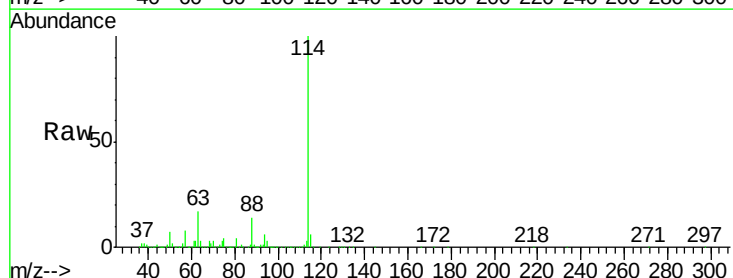
Tgt Ion: 114 Resp: 721644

Ion Ratio Lower Upper

114 100

63 17.4 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

6.86

400000

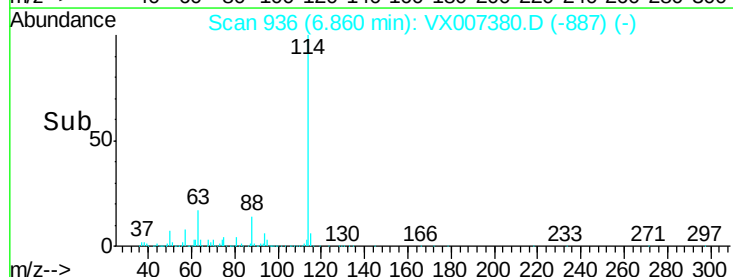
300000

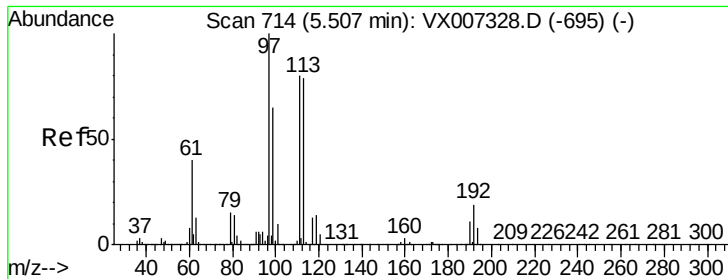
200000

100000

0

Time--> 6.70 6.80 6.90 7.00

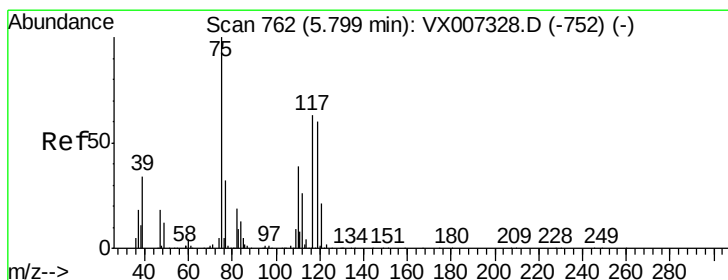
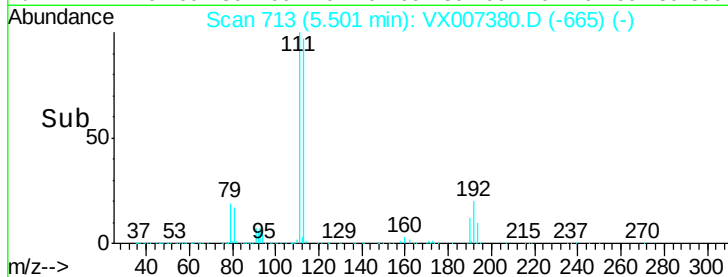
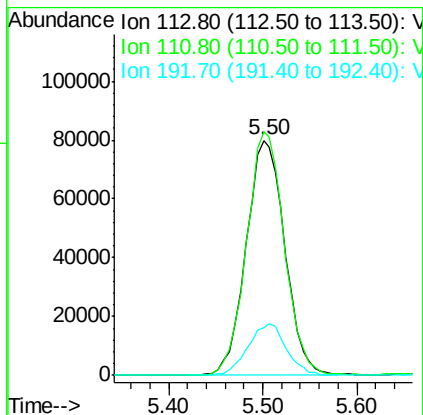
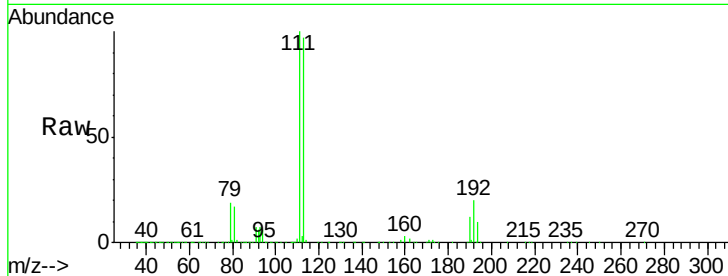




#35
 Dibromofluoromethane
 Concen: 48.710 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.01 min
 Lab File: VX007380.D
 Acq: 05 Feb 2019 16:45

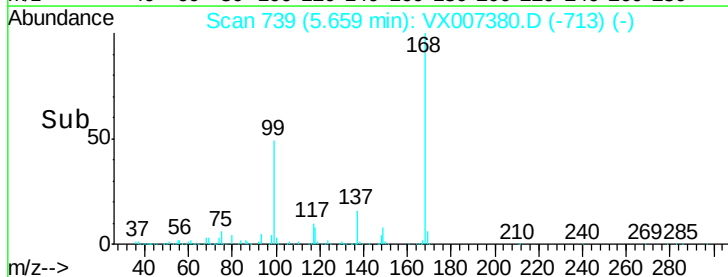
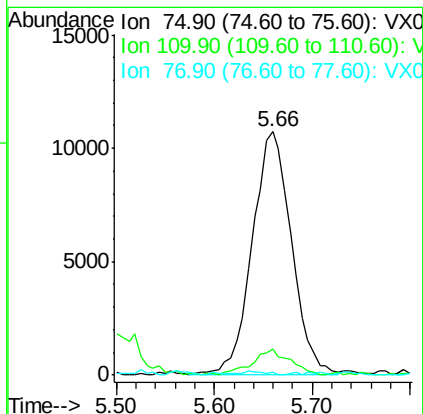
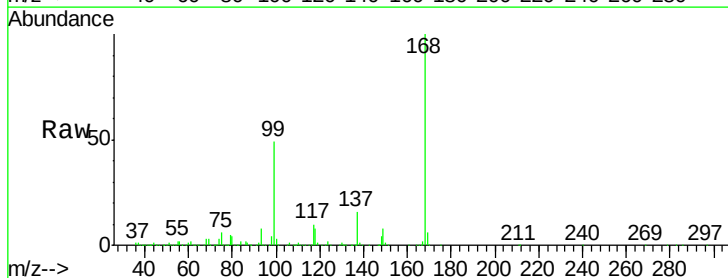
Instrument :
 MSVOA_X
 ClientSampleId :
 PB116824ZHE#06

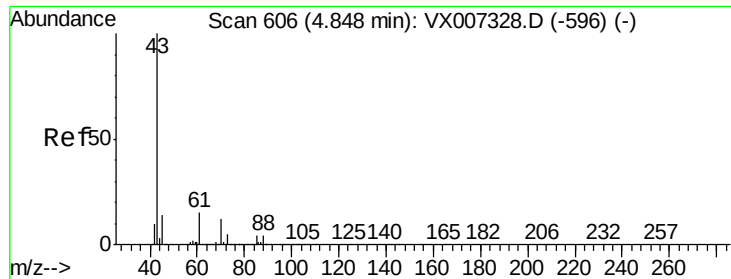
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	21.9	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.643 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007380.D
 Acq: 05 Feb 2019 16:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	20.0	59.9#
77	0.0	24.7	37.1#





#37

Ethyl Acetate

Concen: 1.664 ug/l

RT: 4.72 min Scan# 585

Delta R.T. -0.13 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#06

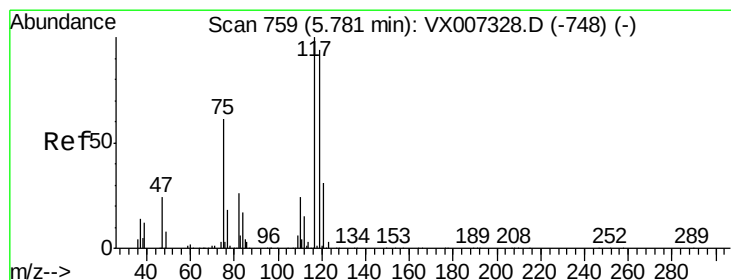
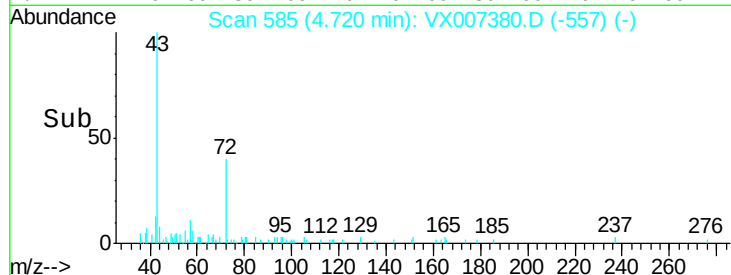
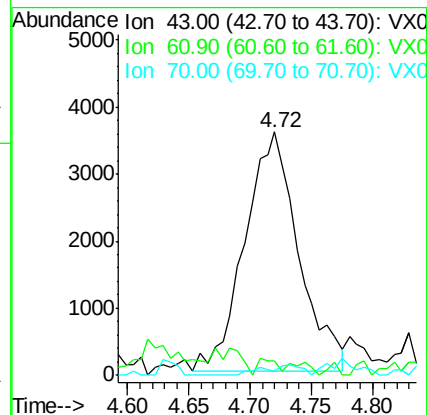
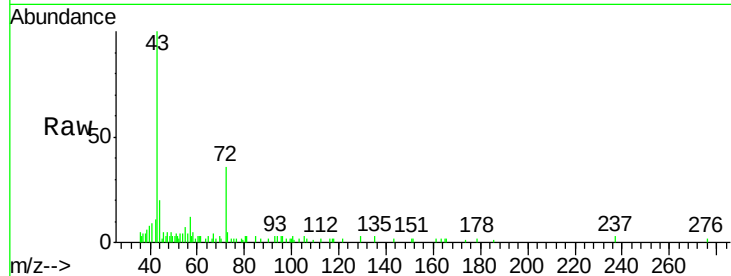
Tot Ion: 43 Resp: 10892

Ion Ratio Lower Upper

43 100

61 2.5 11.3 16.9#

70 1.3 8.6 13.0#



#38

Carbon Tetrachloride

Concen: 6.753 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

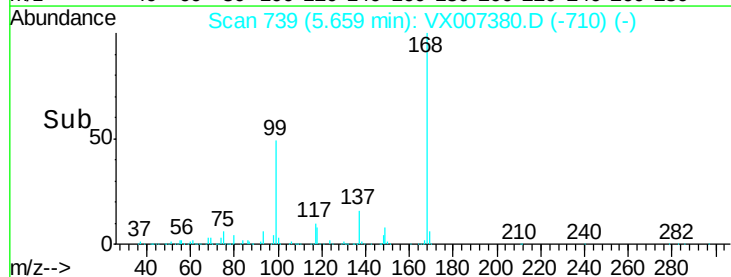
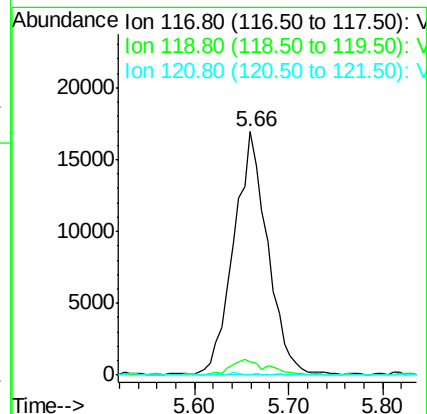
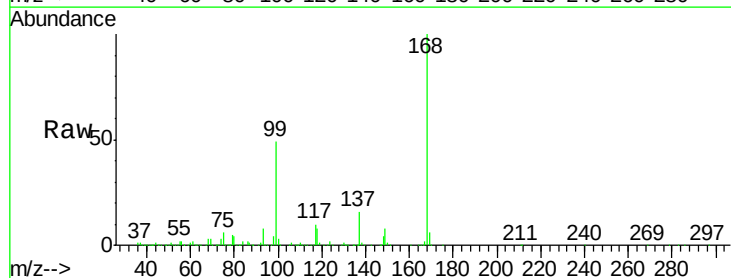
Tgt Ion: 117 Resp: 42423

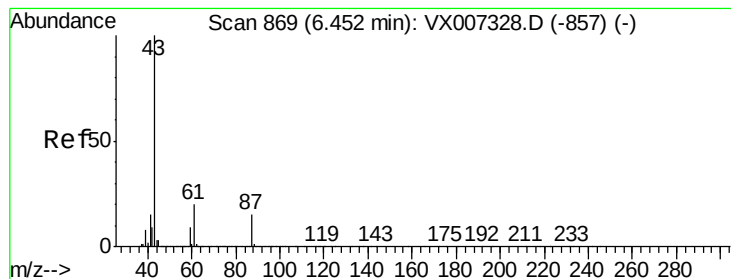
Ion Ratio Lower Upper

117 100

119 5.2 75.3 112.9#

121 0.4 25.0 37.4#





#43

Isopropyl Acetate

Concen: 2.548 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.02 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#06

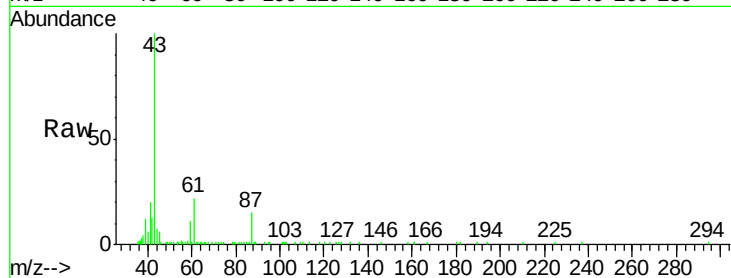
Tot Ion: 43 Resp: 25737

Ion Ratio Lower Upper

43 100

61 22.8 16.1 24.1

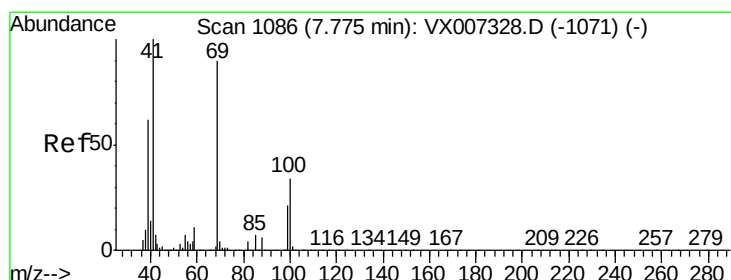
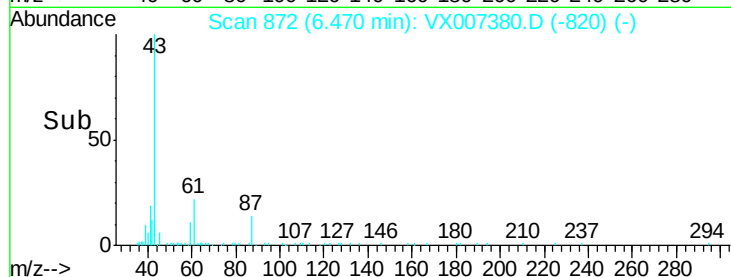
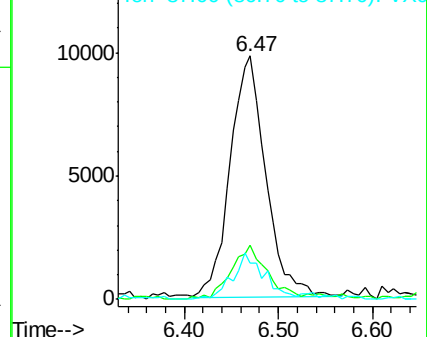
87 17.1 11.5 17.3



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: 2.966 ug/l

RT: 7.70 min Scan# 1074

Delta R.T. -0.07 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

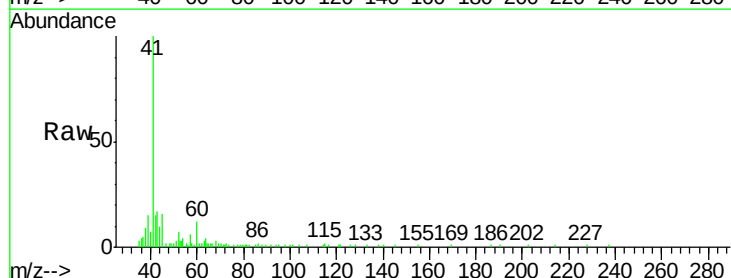
Tgt Ion: 41 Resp: 14988

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

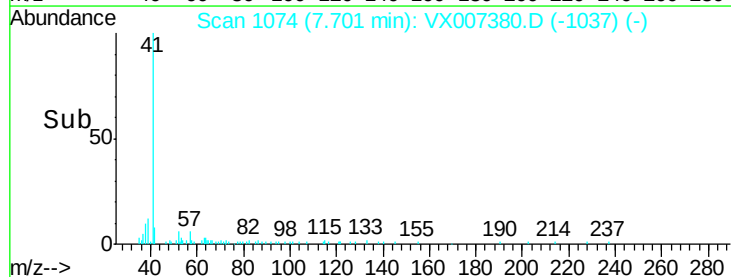
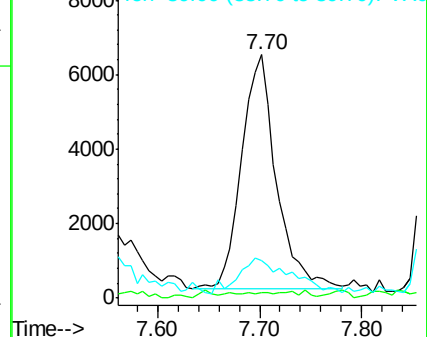
39 22.1 47.4 71.0#

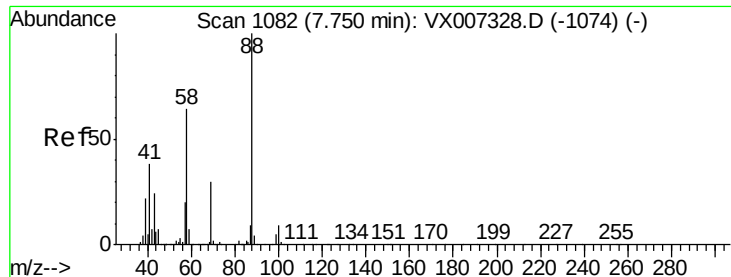


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

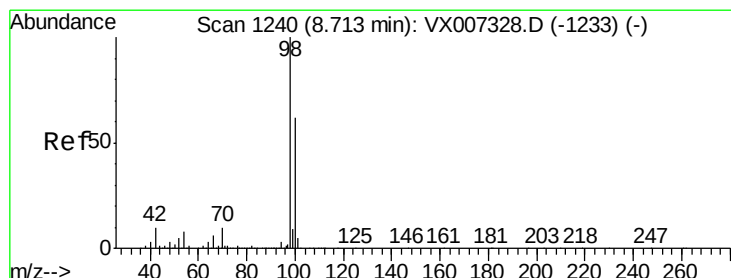
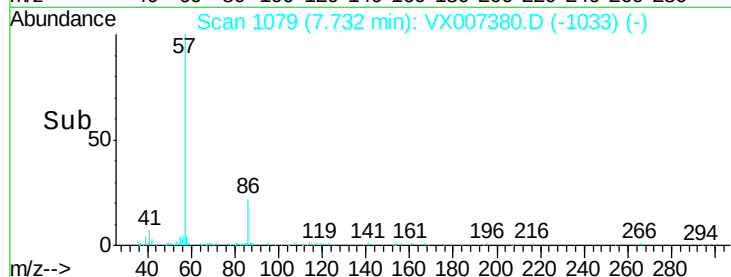
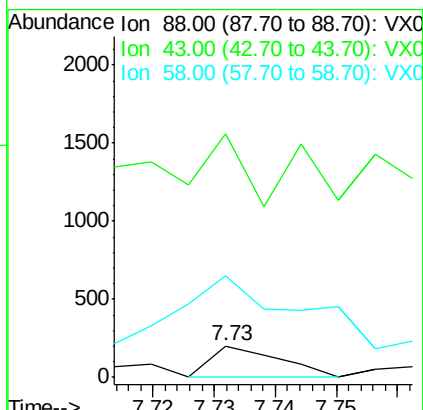
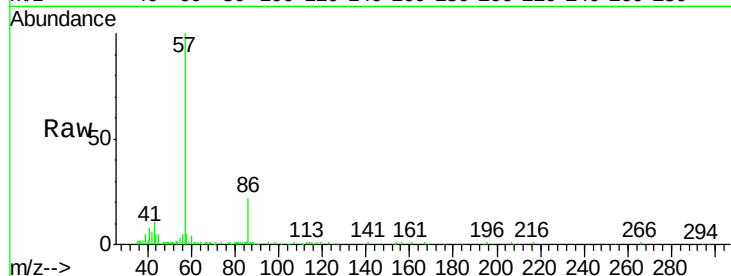




#49
1,4-Dioxane
Concen: 8.218 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.02 min
Lab File: VX007380.D
Acq: 05 Feb 2019 16:45

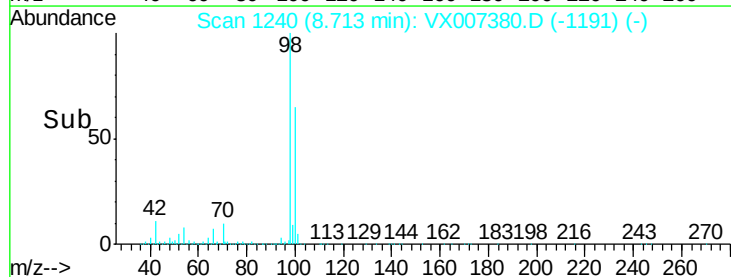
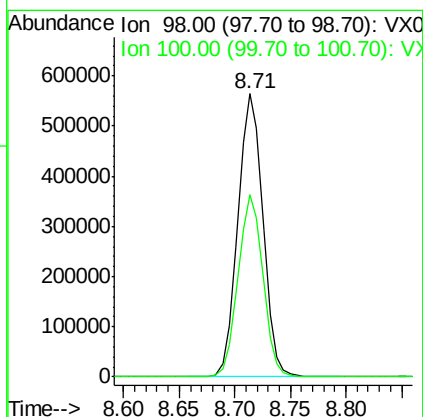
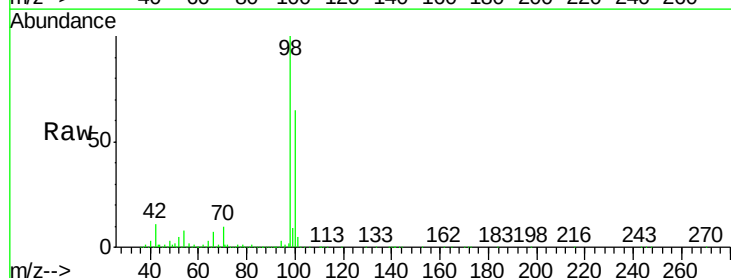
Instrument :
MSVOA_X
ClientSampleId :
PB116824ZHE#06

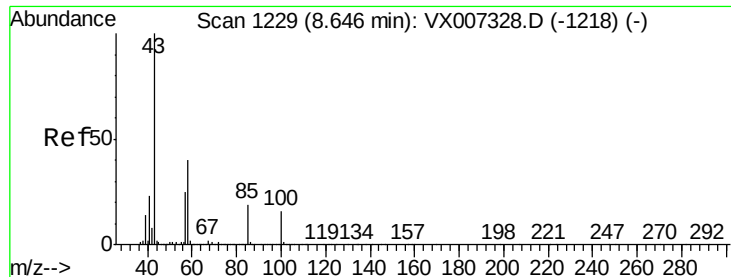
Tot Ion: 88 Resp: 155
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 628.4 53.0 79.4#



#50
Toluene-d8
Concen: 50.504 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007380.D
Acq: 05 Feb 2019 16:45

Tgt Ion: 98 Resp: 879830
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 19.783 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

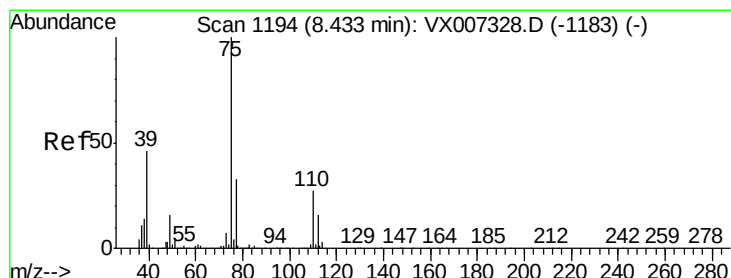
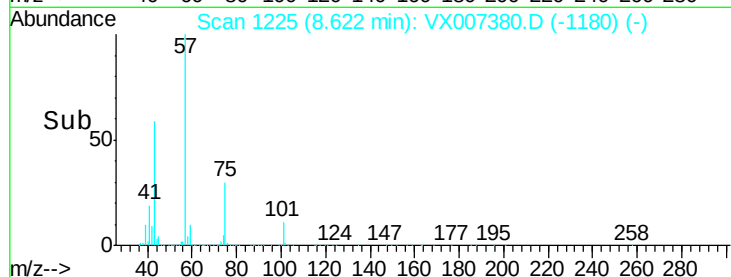
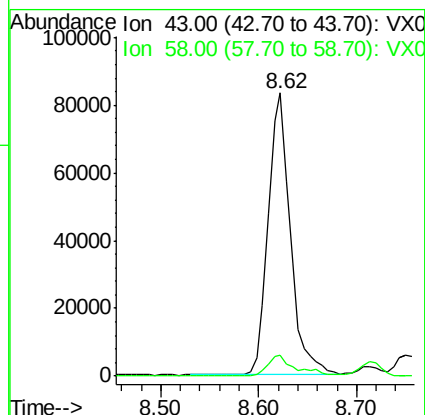
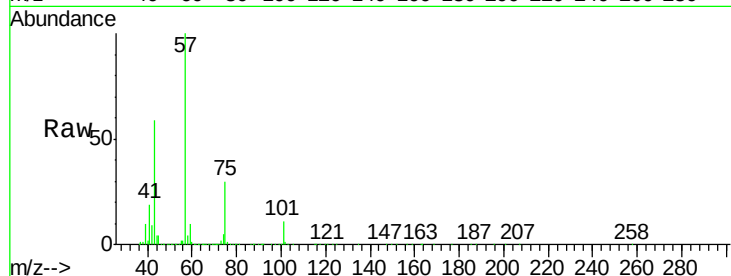
PB116824ZHE#06

Tot Ion: 43 Resp: 131572

Ion Ratio Lower Upper

43 100

58 9.3 31.2 46.8#



#54

cis-1,3-Dichloropropene

Concen: 9.410 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

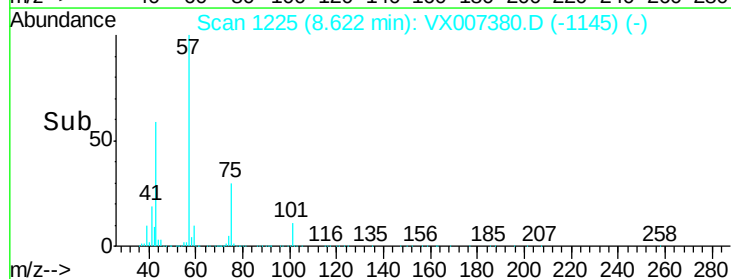
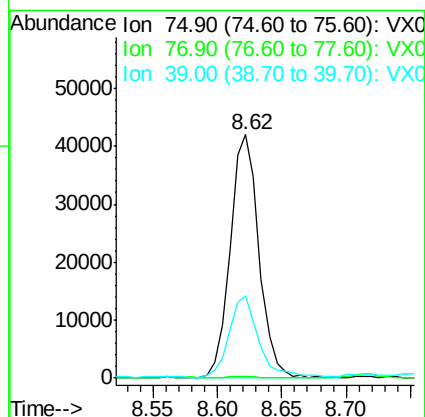
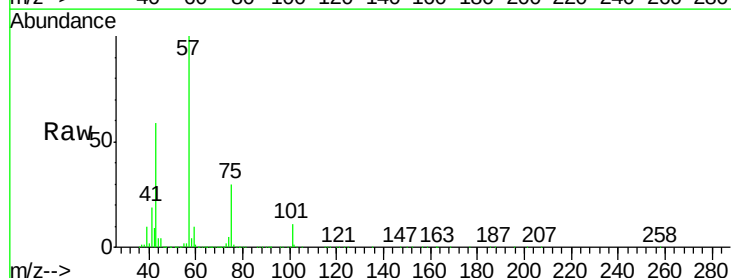
Tgt Ion: 75 Resp: 65430

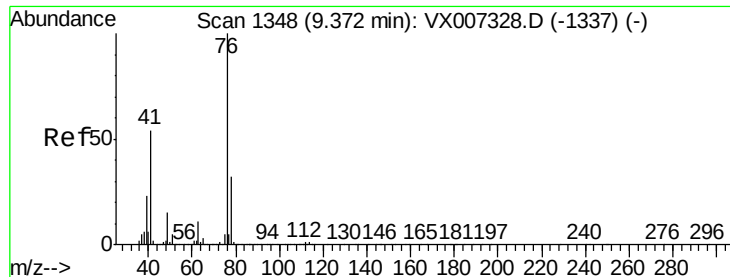
Ion Ratio Lower Upper

75 100

77 0.2 26.2 39.4#

39 33.5 37.1 55.7#





#57

1,3-Dichloropropane

Concen: 1.877 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

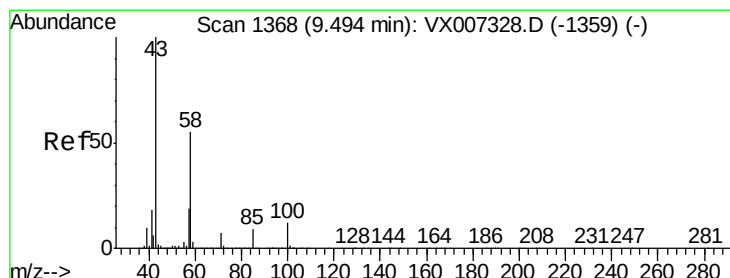
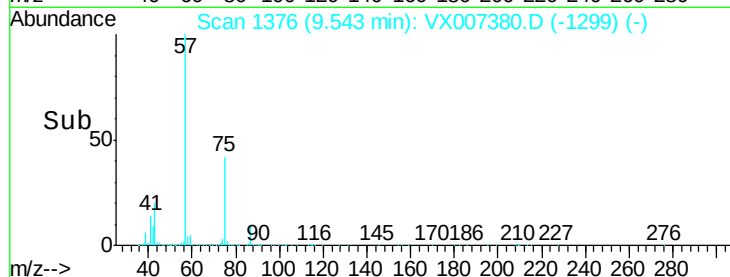
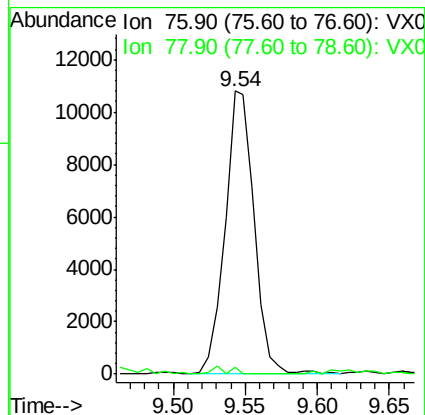
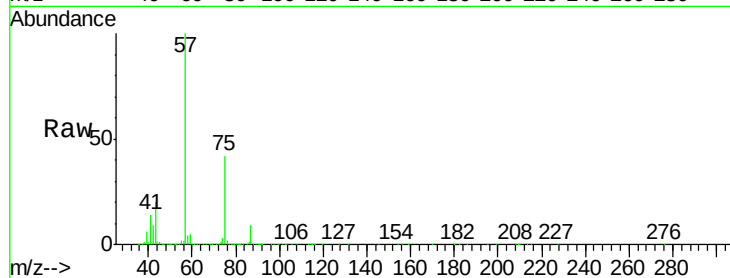
PB116824ZHE#06

Tot Ion: 76 Resp: 15313

Ion Ratio Lower Upper

76 100

78 1.4 25.8 38.8#



#59

2-Hexanone

Concen: 4.043 ug/l

RT: 9.45 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VX007380.D

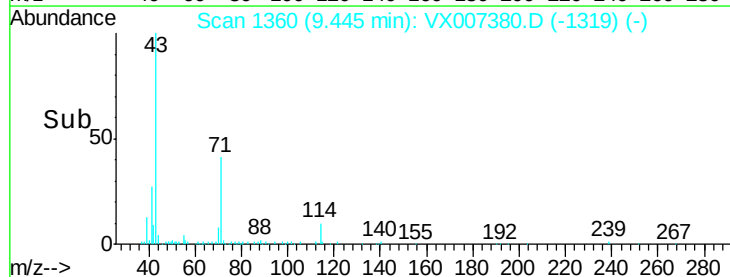
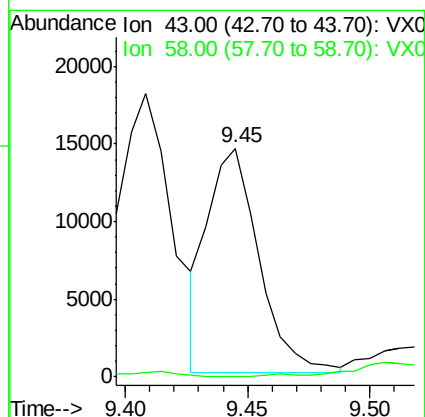
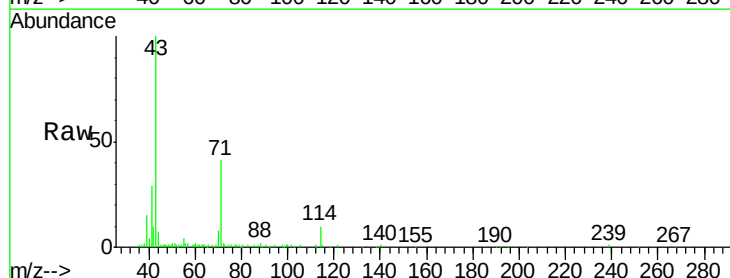
Acq: 05 Feb 2019 16:45

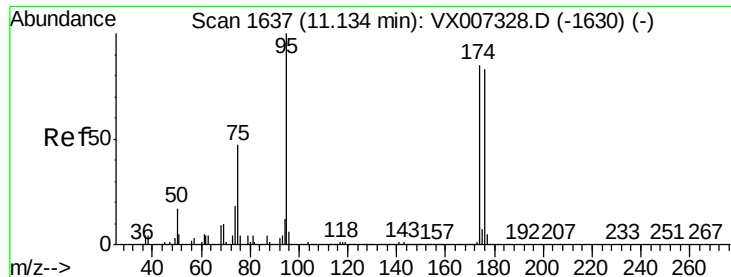
Tgt Ion: 43 Resp: 20925

Ion Ratio Lower Upper

43 100

58 0.0 27.1 81.3#





#62

4-Bromofluorobenzene

Concen: 46.540 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#06

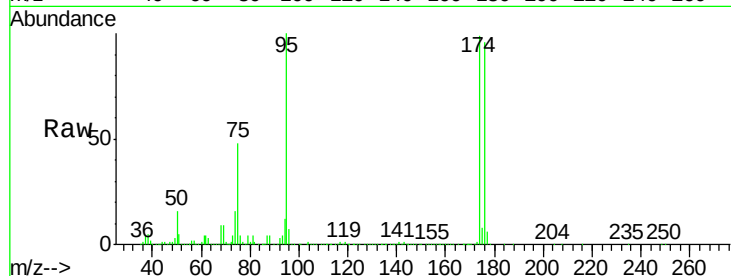
Tot Ion: 95 Resp: 296012

Ion Ratio Lower Upper

95 100

174 95.6 0.0 189.2

176 93.0 0.0 186.2

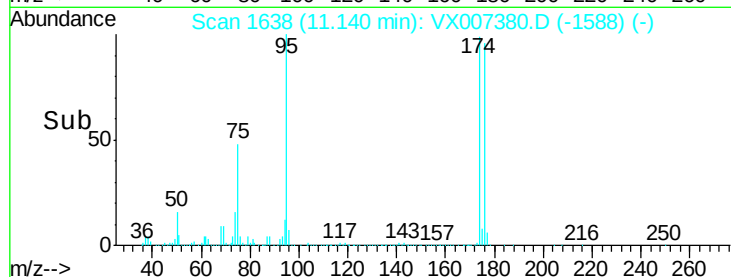


Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

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

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

Time--> 11.05 11.10 11.15 11.20

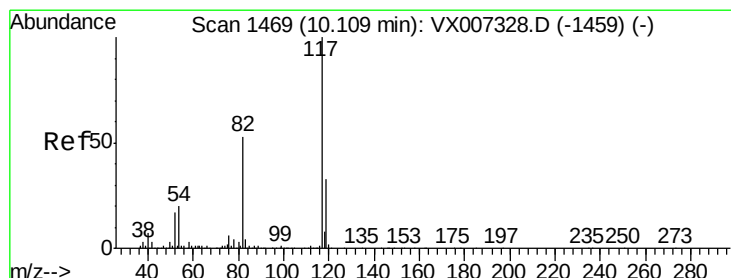


Abundance Ion 94.90 (94.60 to 95.60): VX007328.D (-1630) (-)

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

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

Time--> 11.05 11.10 11.15 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

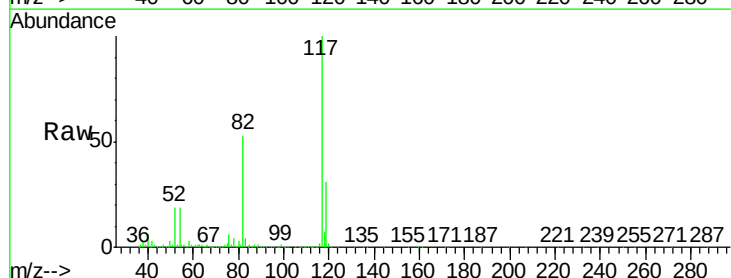
Tgt Ion: 117 Resp: 665750

Ion Ratio Lower Upper

117 100

82 52.9 42.1 63.1

119 31.1 26.5 39.7

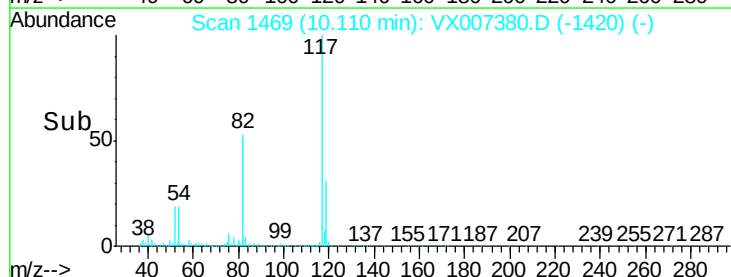


Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

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

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

Time--> 10.00 10.10 10.20

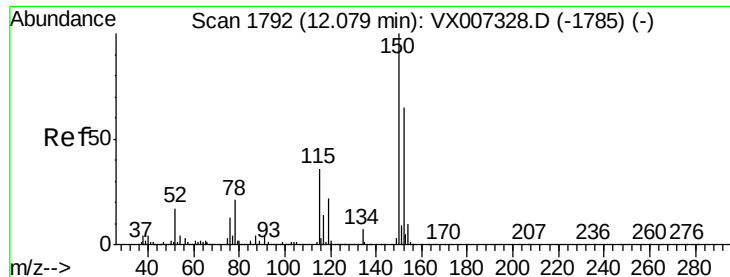


Abundance Ion 116.90 (116.60 to 117.60): VX007328.D (-1459) (-)

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

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

Time--> 10.00 10.10 10.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007380.D

Acq: 05 Feb 2019 16:45

Instrument :

MSVOA_X

ClientSampleId :

PB116824ZHE#06

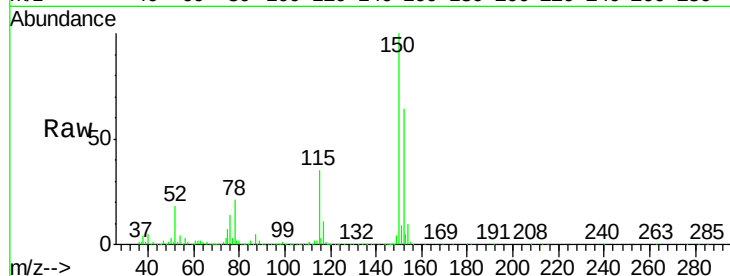
Tot Ion:152 Resp: 334196

Ion Ratio Lower Upper

152 100

115 55.1 38.0 114.0

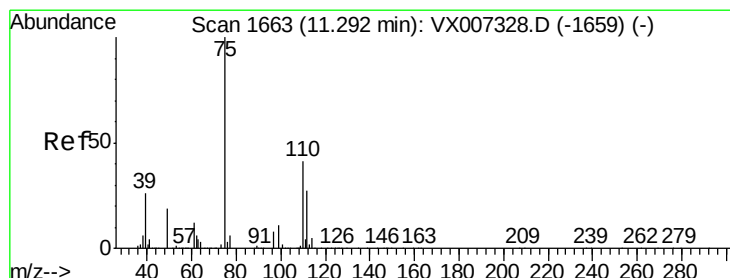
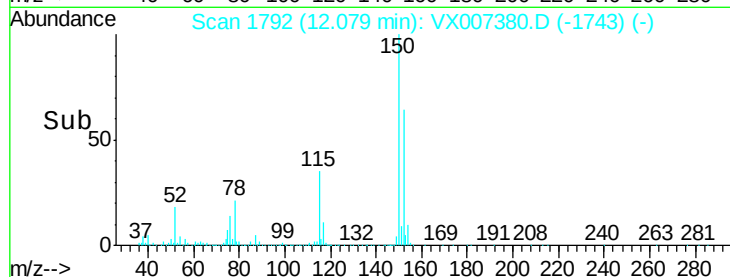
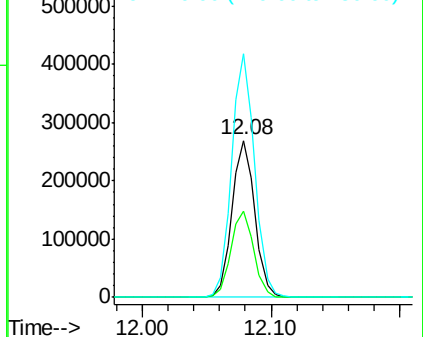
150 155.6 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.404 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007380.D

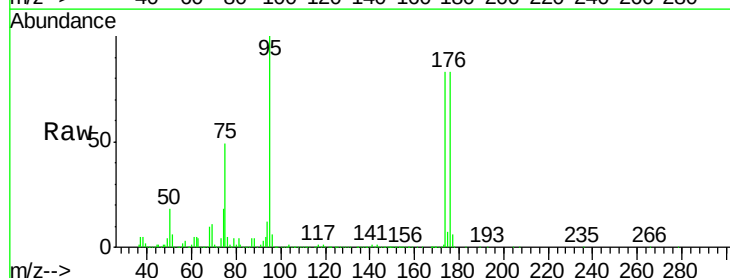
Acq: 05 Feb 2019 16:45

Tgt Ion: 75 Resp: 145639

Ion Ratio Lower Upper

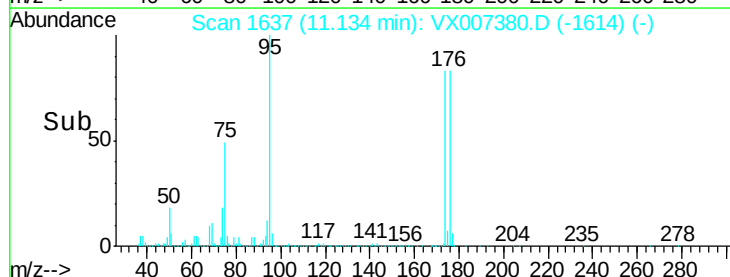
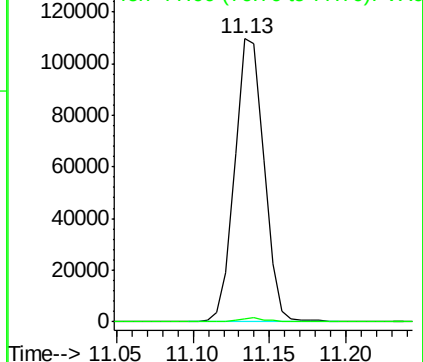
75 100

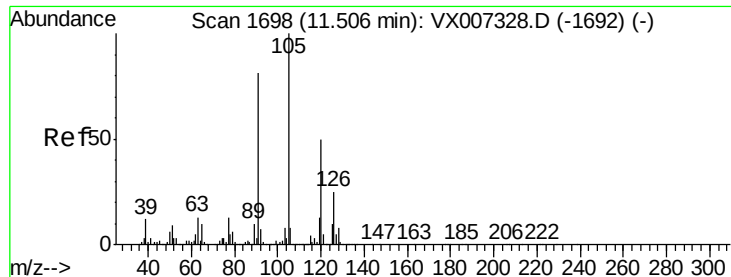
77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

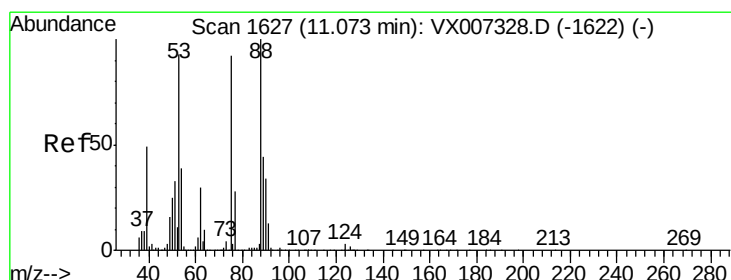
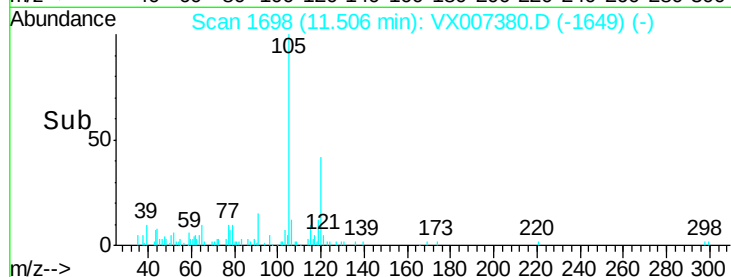
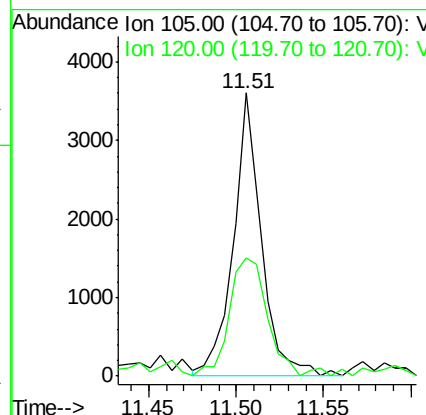
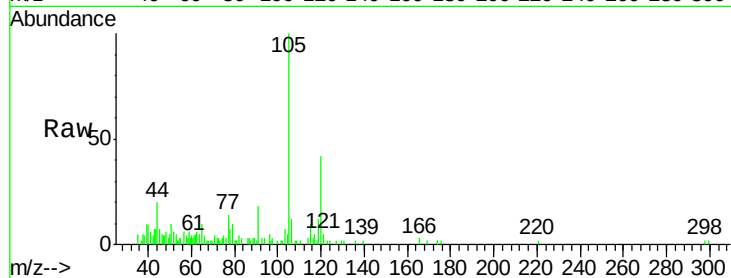




#80
 1,3,5-Trimethylbenzene
 Concen: 0.217 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX007380.D
 Acq: 05 Feb 2019 16:45

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116824ZHE#06

Tot Ion:105 Resp: 4041
 Ion Ratio Lower Upper
 105 100
 120 56.5 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.621 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007380.D
 Acq: 05 Feb 2019 16:45

Tgt Ion: 75 Resp: 145639
 Ion Ratio Lower Upper
 75 100
 53 0.3 81.0 121.6#
 89 0.0 41.4 62.0#

