

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100518\
 Data File : VX005089.D
 Acq On : 06 Oct 2018 01:32
 Operator : JC/MD
 Sample : PB113539ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113539ZHE#04

Quant Time: Oct 06 06:44:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	212059	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	319012	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175439	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	155605	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
35) Dibromofluoromethane	5.51	113	132456	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	8.72	98	459141	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
62) 4-Bromofluorobenzene	11.14	95	164972	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	

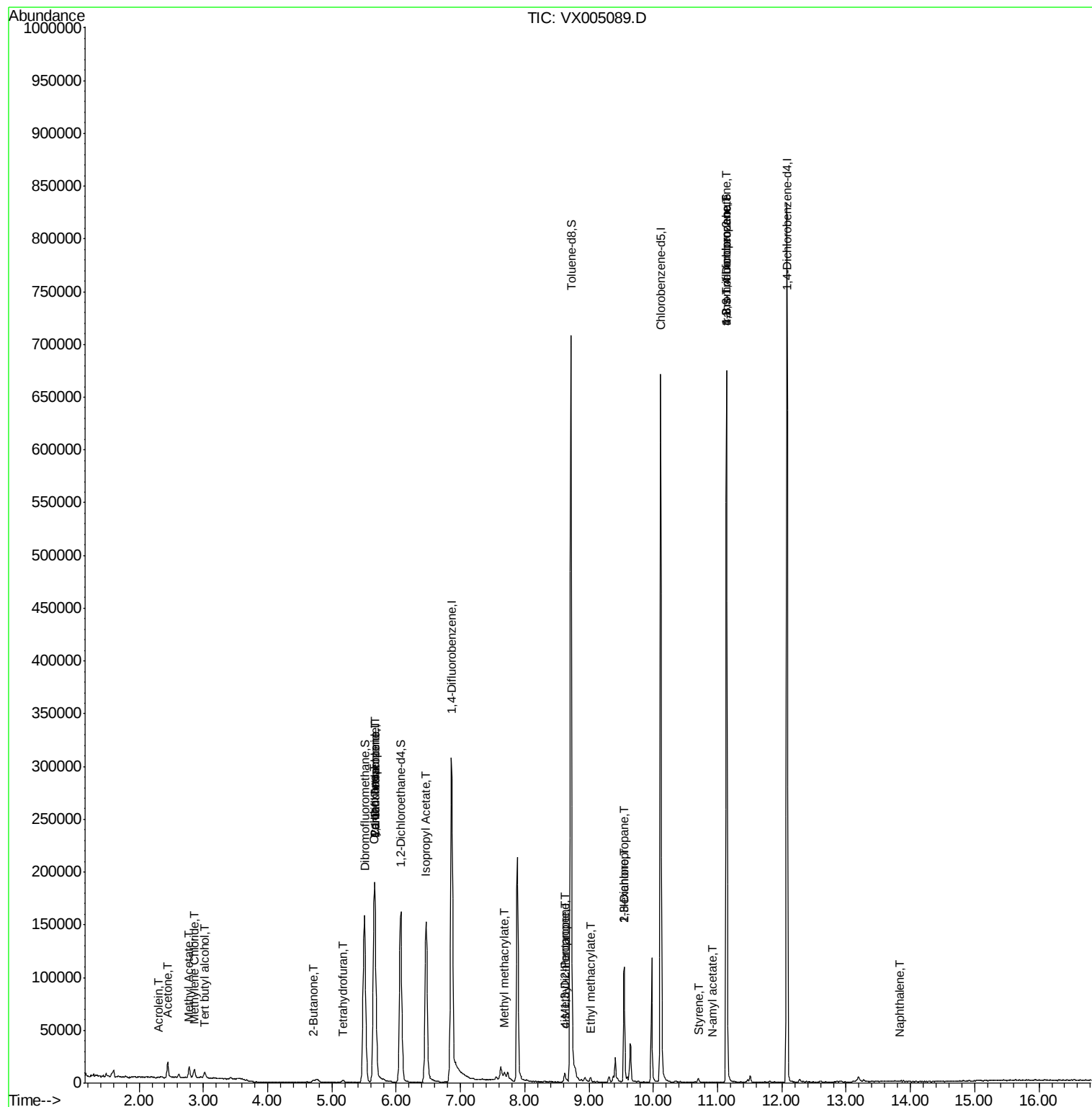
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	247	Below Cal	#	80
11) Tert butyl alcohol	3.02	59	3791	4.476	ug/l #	72
13) Acrolein	2.29	56	234	0.388	ug/l	97
16) Acetone	2.45	43	14851	8.397	ug/l	99
18) Methyl Acetate	2.78	43	13227	2.952	ug/l	98
20) Methylene Chloride	2.86	84	3581	0.563	ug/l #	92
25) 2-Butanone	4.71	43	3021	1.159	ug/l	99
29) Tetrahydrofuran	5.16	42	1751	1.081	ug/l #	72
31) Cyclohexane	5.65	56	3705	0.961	ug/l #	11
36) 1,1-Dichloropropene	5.67	75	14415	3.908	ug/l #	38
38) Carbon Tetrachloride	5.66	117	18041	4.653	ug/l #	19
43) Isopropyl Acetate	6.46	43	208179	29.456	ug/l	98
48) Methyl methacrylate	7.69	41	7671	2.391	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	2764	0.621	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	1165	0.295	ug/l #	67
56) Ethyl methacrylate	9.02	69	107	2.884	ug/l #	1
57) 1,3-Dichloropropane	9.55	76	949	0.205	ug/l #	41
59) 2-Hexanone	9.55	43	12179	3.284	ug/l #	56
70) Styrene	10.71	104	232	2.166	ug/l	94
74) N-amyl acetate	10.92	43	64	1.758	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	82432	20.963	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	82432	56.889	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	392	Below Cal		80
95) Naphthalene	13.83	128	495	0.753	ug/l #	81

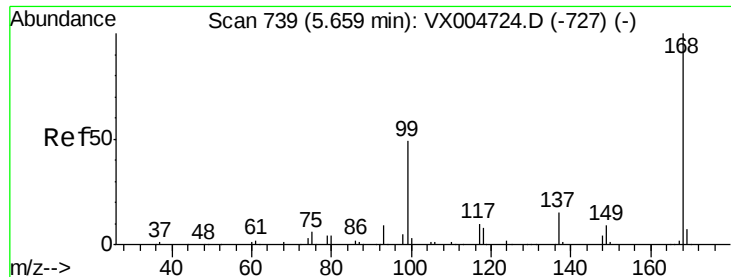
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 06 06:44:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

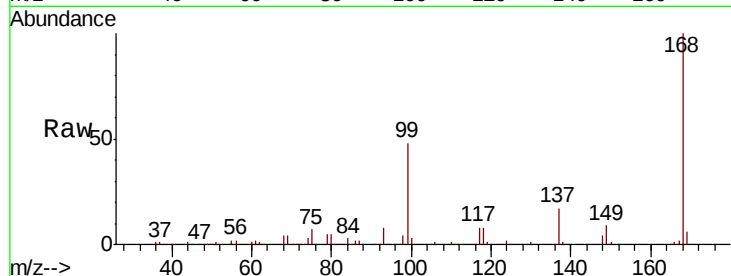
PB113539ZHE#04

Tot Ion:168 Resp: 212059

Ion Ratio Lower Upper

168 100

99 48.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

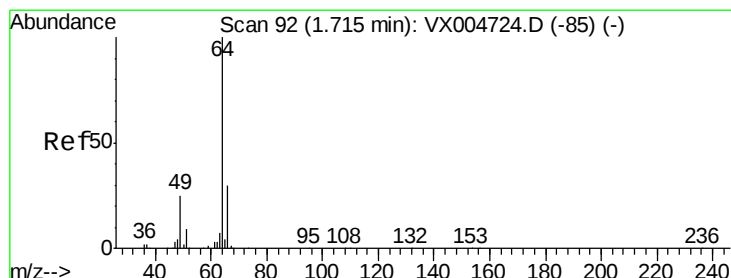
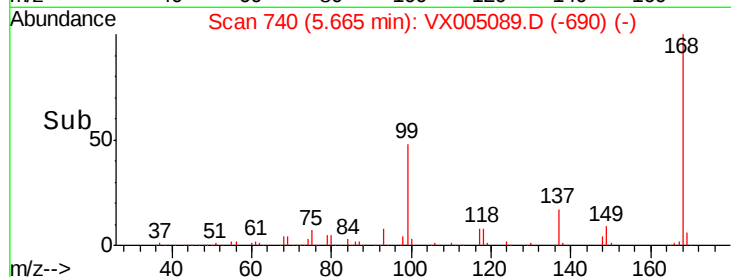
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005089.D

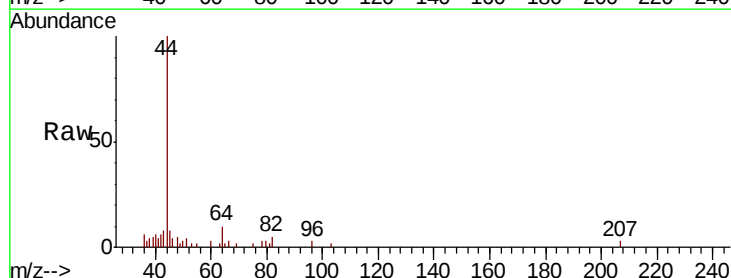
Acq: 06 Oct 2018 01:32

Tgt Ion: 64 Resp: 247

Ion Ratio Lower Upper

64 100

66 40.7 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

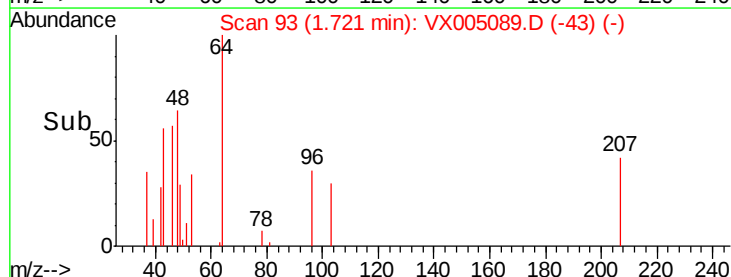
300

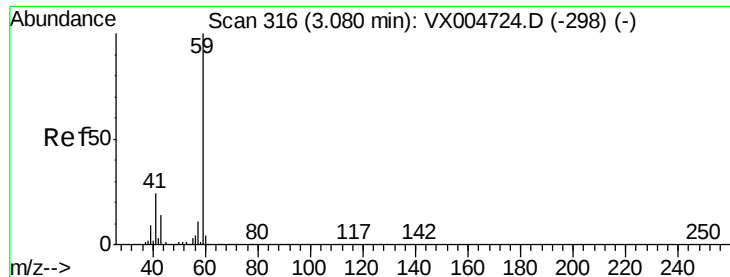
200

100

0

Time--> 1.70 1.75

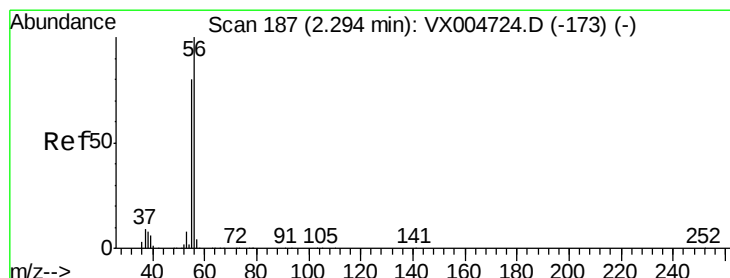
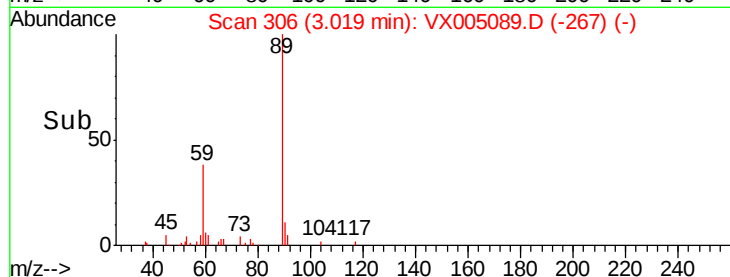
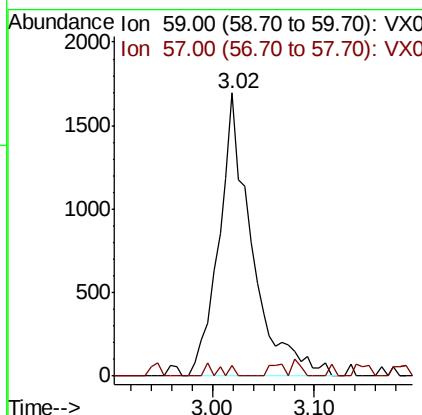
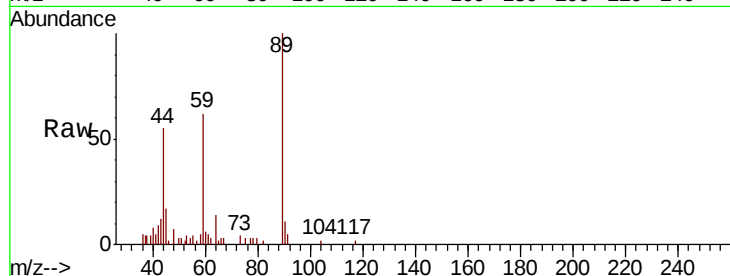




#11
Tert butyl alcohol
Concen: 4.476 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

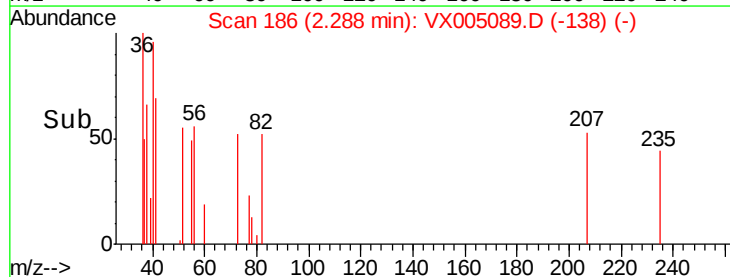
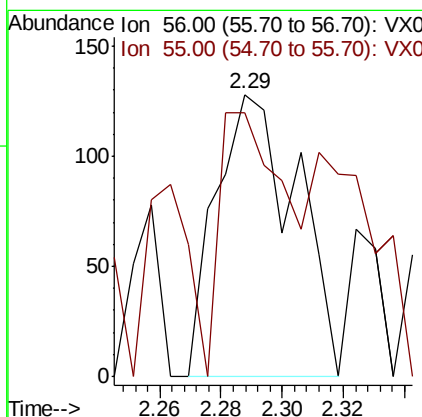
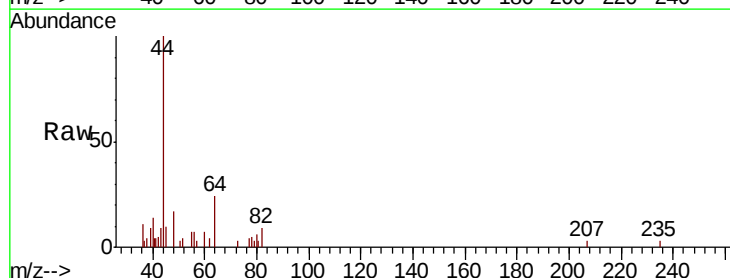
Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#04

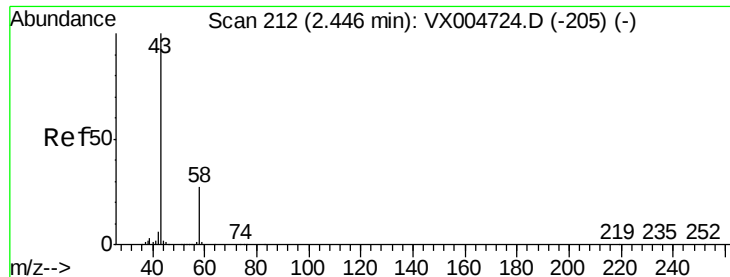
Tot Ion: 59 Resp: 3791
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.388 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

Tgt Ion: 56 Resp: 234
Ion Ratio Lower Upper
56 100
55 76.9 63.4 95.2





#16

Acetone

Concen: 8.397 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

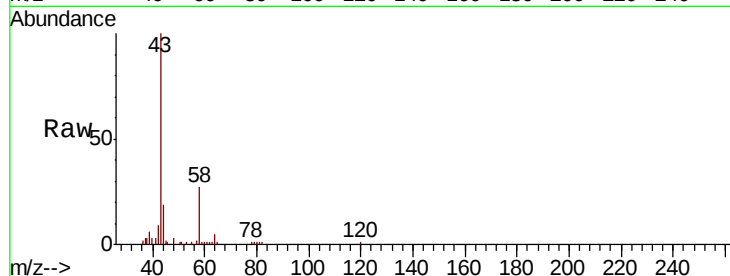
PB113539ZHE#04

Tot Ion: 43 Resp: 14851

Ion Ratio Lower Upper

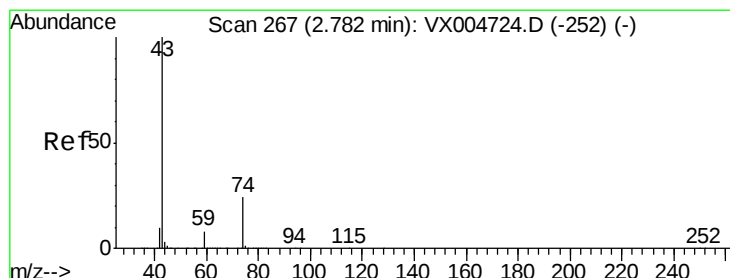
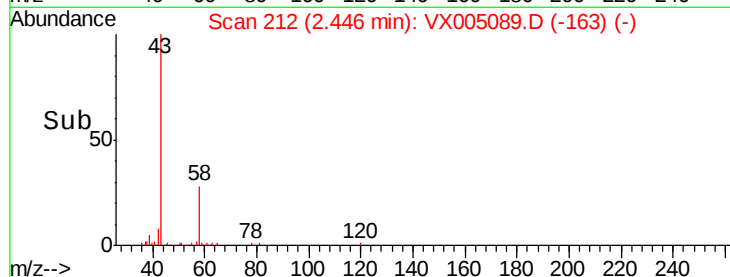
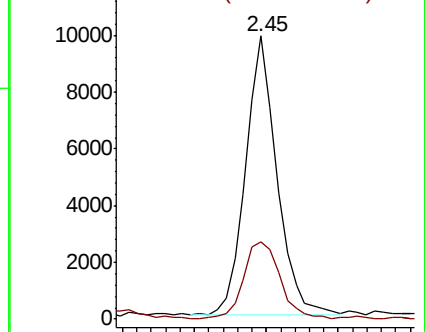
43 100

58 27.6 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 2.952 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005089.D

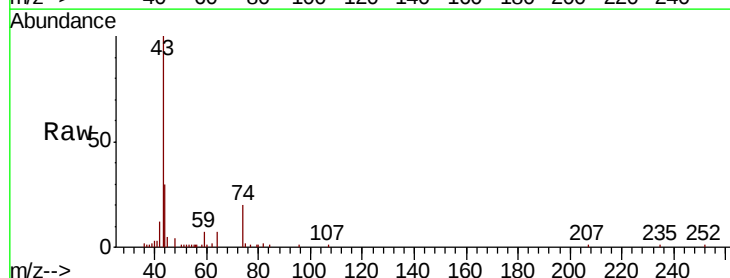
Acq: 06 Oct 2018 01:32

Tgt Ion: 43 Resp: 13227

Ion Ratio Lower Upper

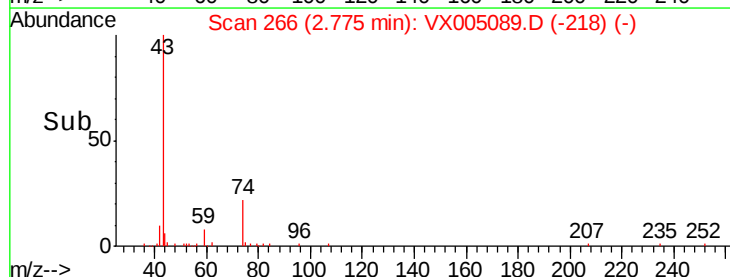
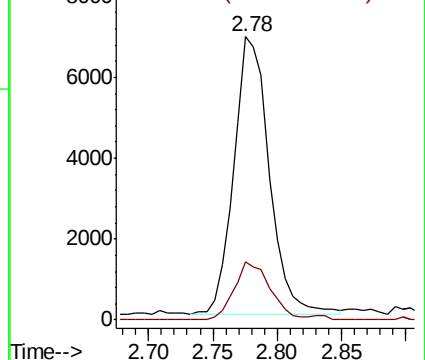
43 100

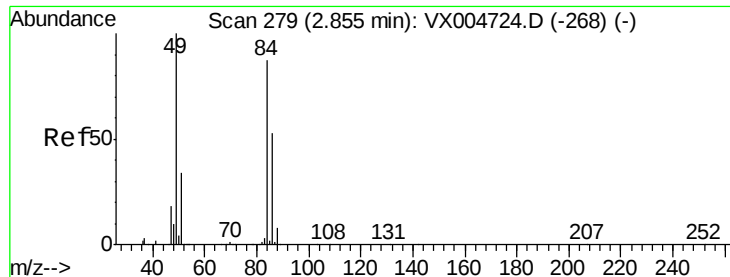
74 21.1 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 0.563 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

Tot Ion: 84 Resp: 3581

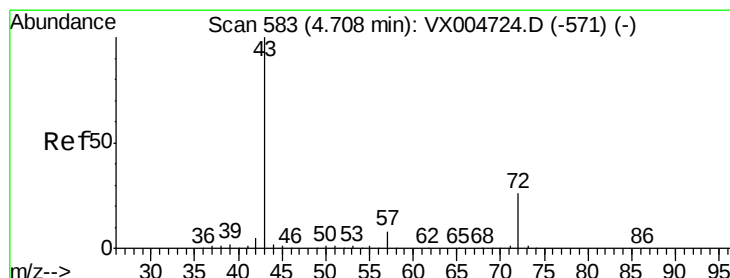
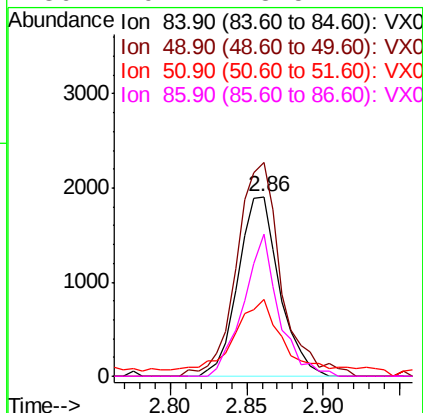
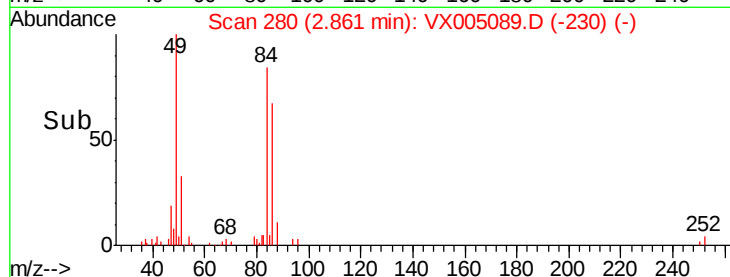
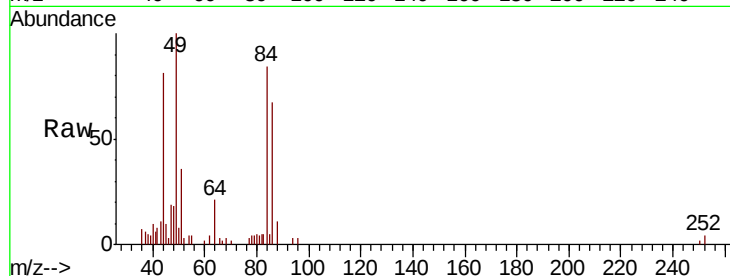
Ion Ratio Lower Upper

84 100

49 115.8 92.3 138.5

51 38.2 31.8 47.6

86 79.2 48.5 72.7#



#25

2-Butanone

Concen: 1.159 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005089.D

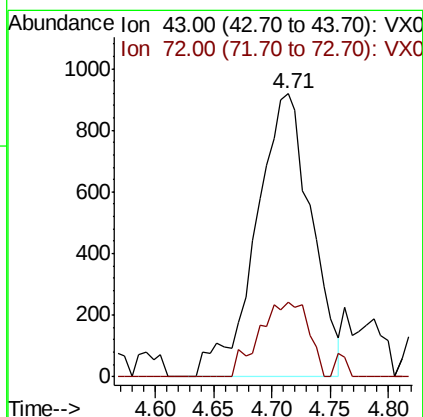
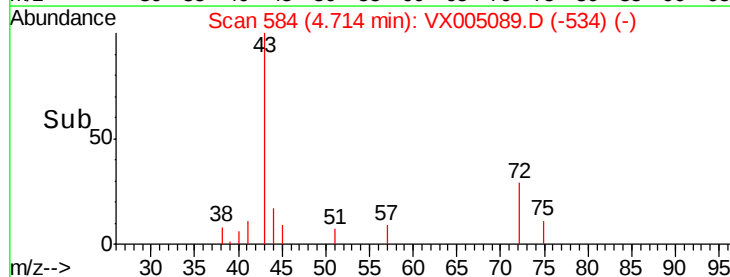
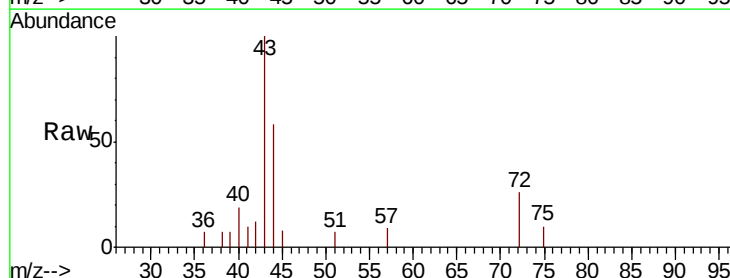
Acq: 06 Oct 2018 01:32

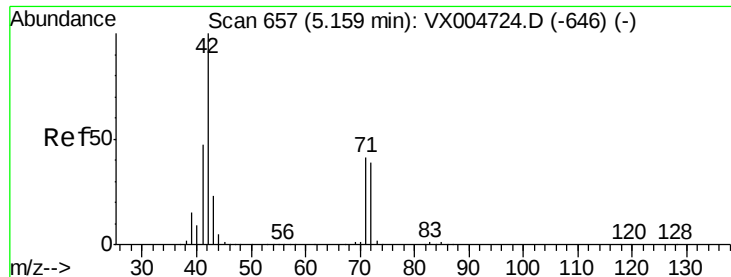
Tgt Ion: 43 Resp: 3021

Ion Ratio Lower Upper

43 100

72 26.4 20.8 31.2





#29

Tetrahydrofuran

Concen: 1.081 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

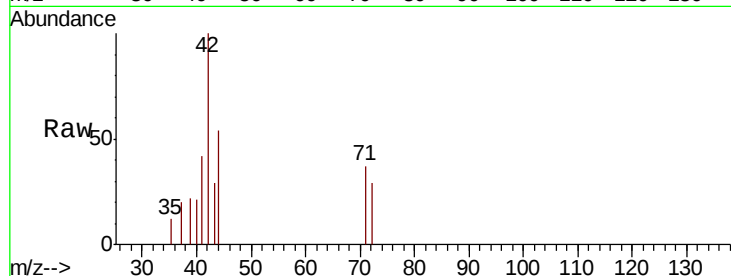
Tot Ion: 42 Resp: 1751

Ion Ratio Lower Upper

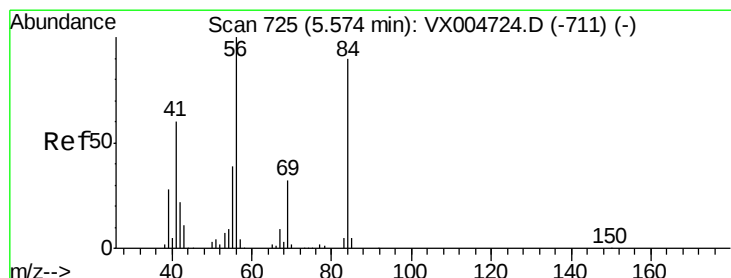
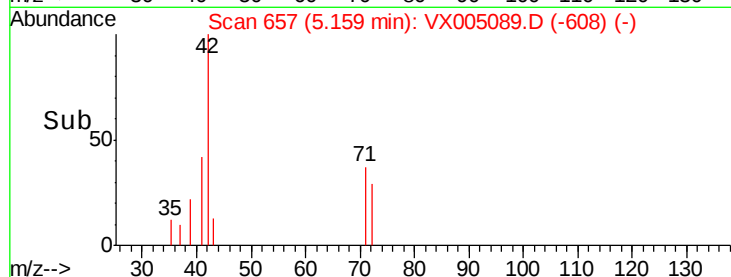
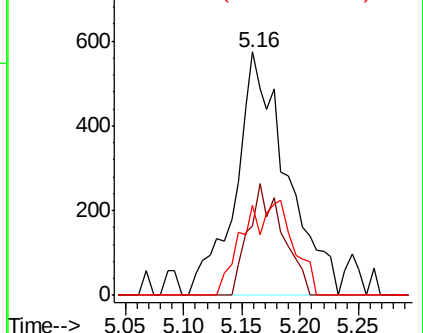
42 100

72 30.9 33.7 50.5#

71 16.2 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 0.961 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

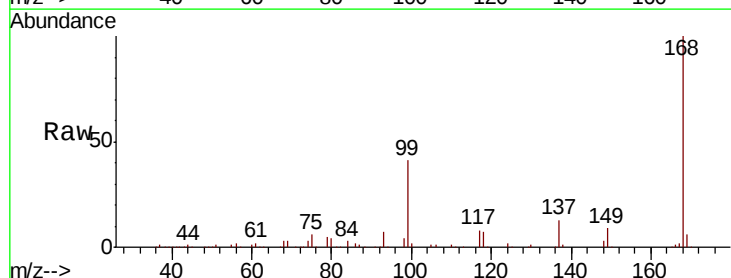
Tgt Ion: 56 Resp: 3705

Ion Ratio Lower Upper

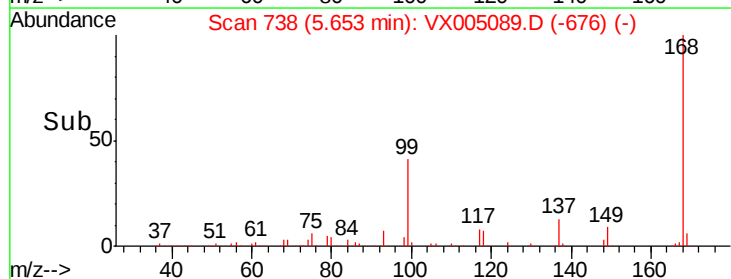
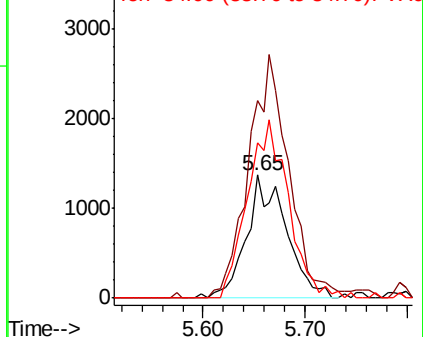
56 100

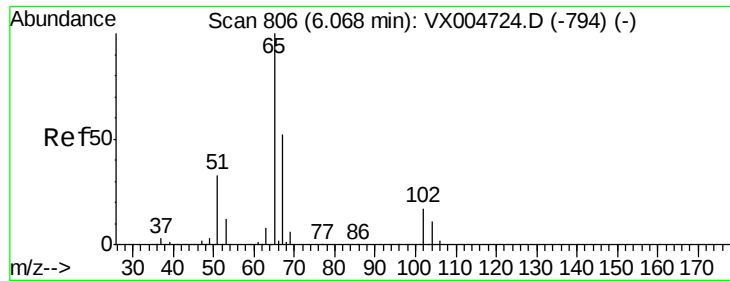
69 160.6 25.9 38.9#

84 126.2 71.9 107.9#



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





#33

1,2-Dichloroethane-d4

Concen: 51.367 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

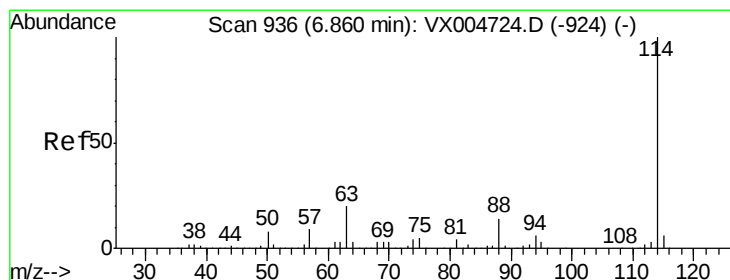
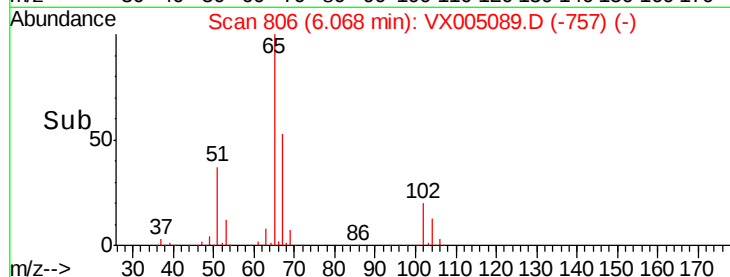
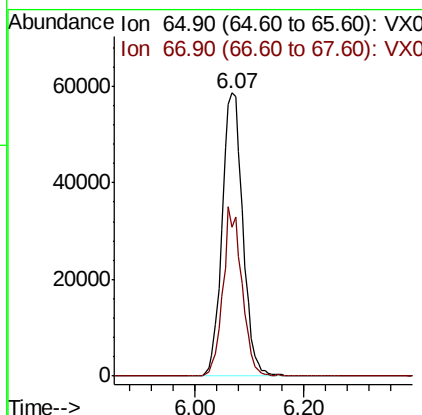
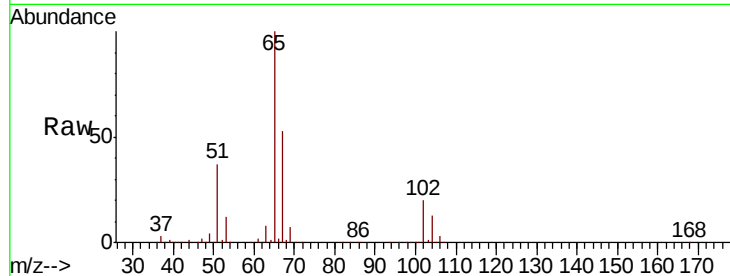
Lab File: VX005089.D

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Tot Ion: 65 Resp: 155605

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

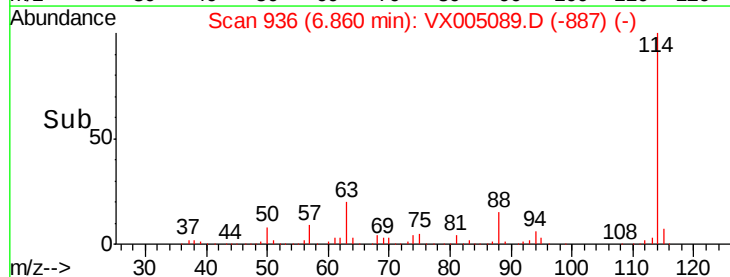
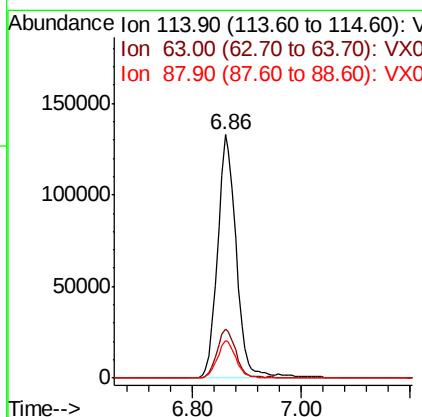
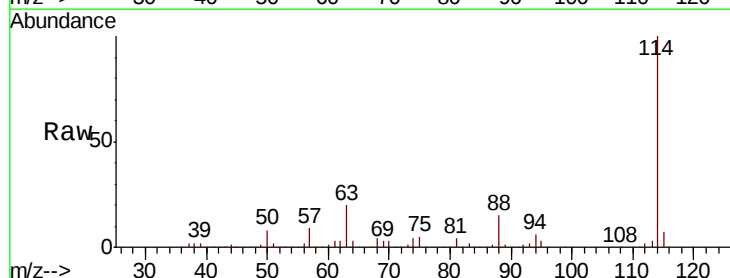
Delta R.T. -0.00 min

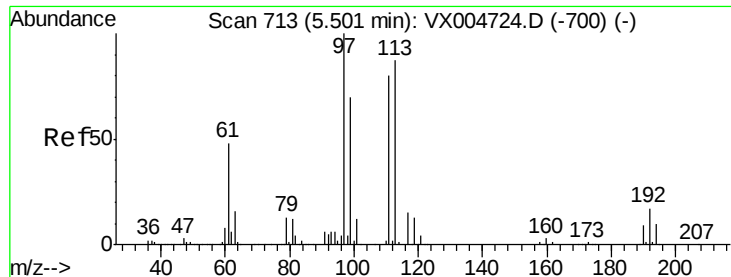
Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Tgt Ion: 114 Resp: 319012

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.8
88	15.3	0.0	27.0





#35

Dibromofluoromethane

Concen: 48.991 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

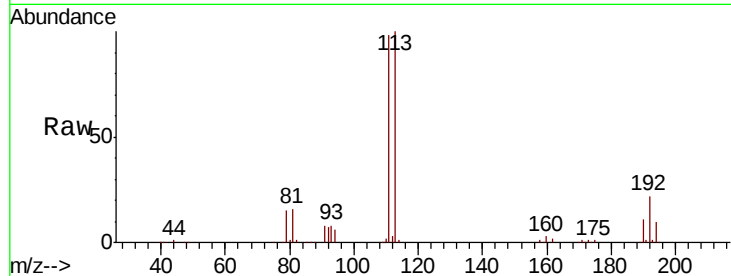
Tot Ion:113 Resp: 132456

Ion Ratio Lower Upper

113 100

111 105.7 77.0 115.4

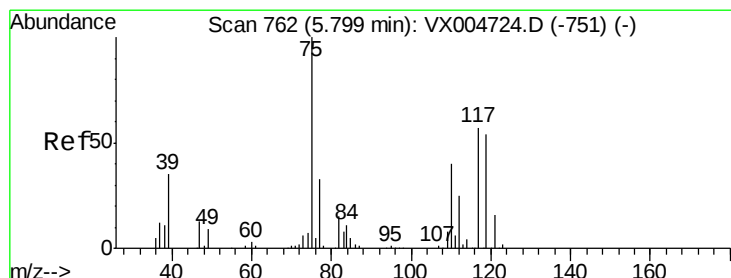
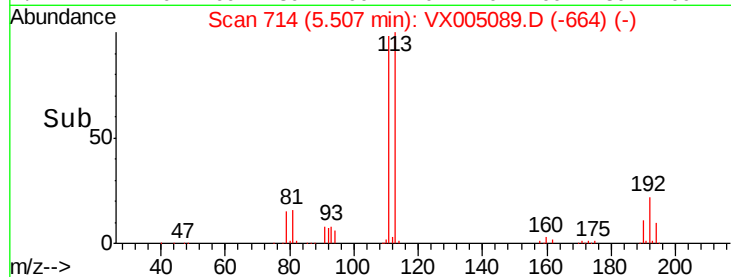
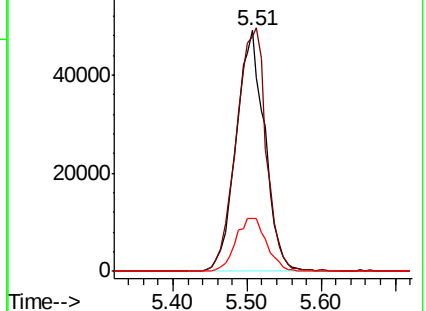
192 23.8 17.0 25.6



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: 3.908 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

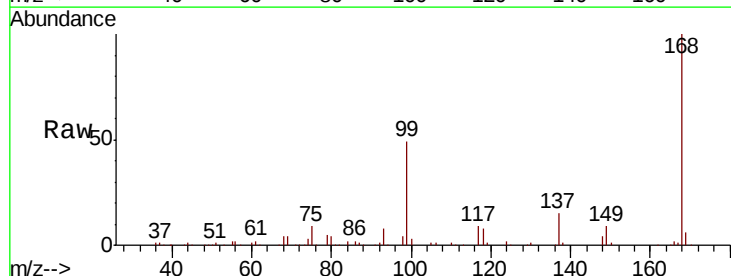
Tgt Ion: 75 Resp: 14415

Ion Ratio Lower Upper

75 100

110 0.0 20.0 59.9#

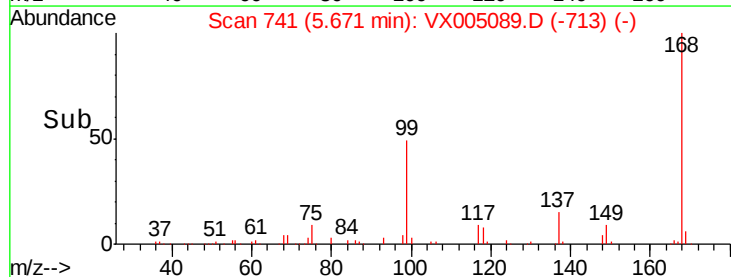
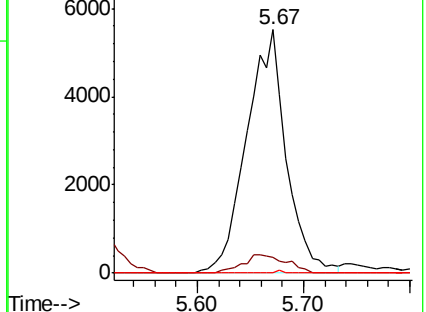
77 0.2 27.1 40.7#

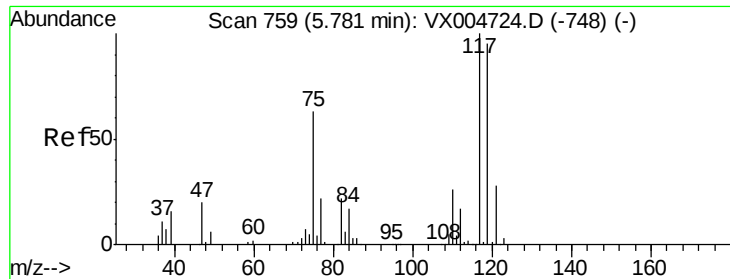


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.653 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

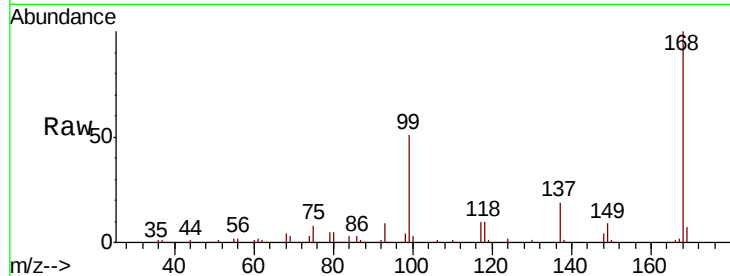
Tot Ion:117 Resp: 18041

Ion Ratio Lower Upper

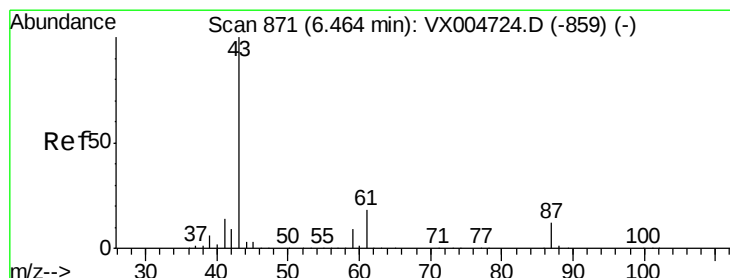
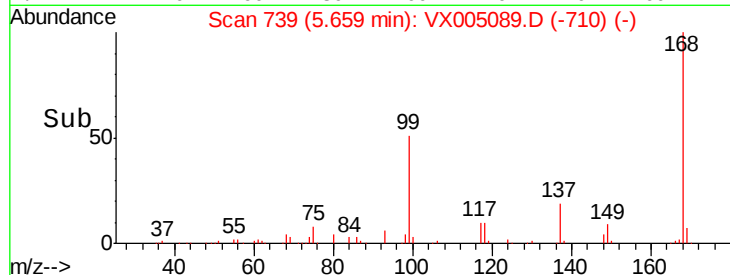
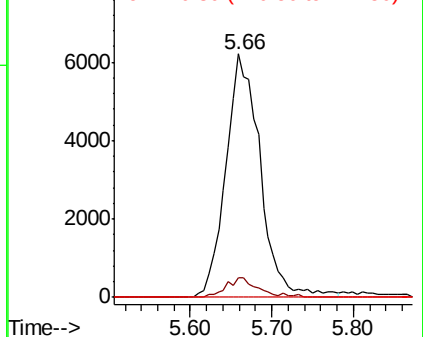
117 100

119 7.8 75.2 112.8#

121 0.0 22.5 33.7#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 29.456 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.00 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

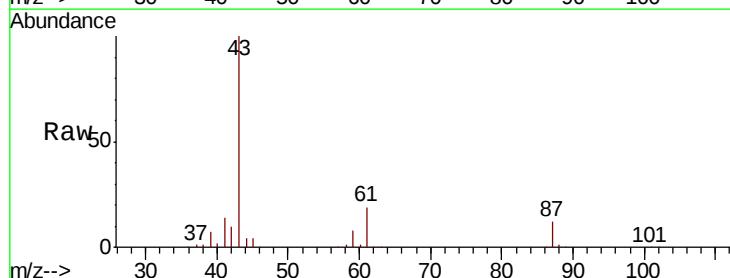
Tgt Ion: 43 Resp: 208179

Ion Ratio Lower Upper

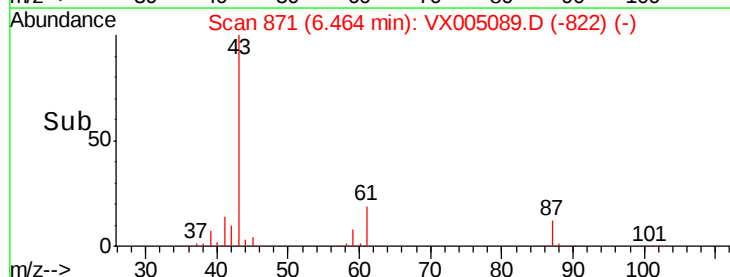
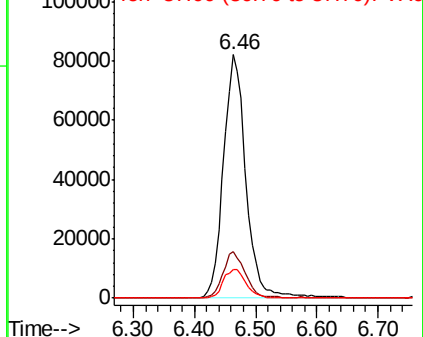
43 100

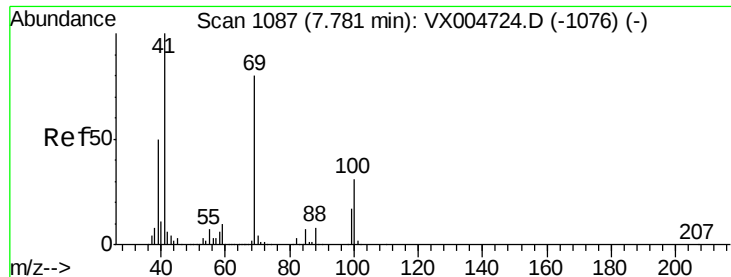
61 18.9 14.2 21.4

87 12.2 9.3 13.9



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

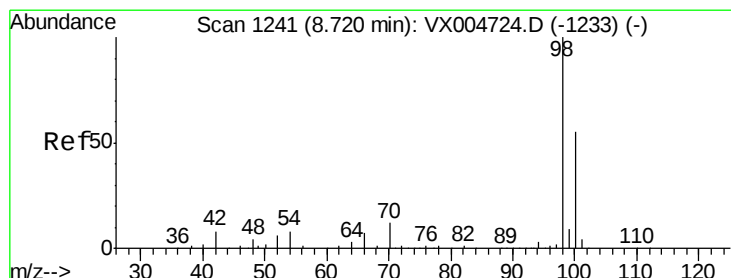
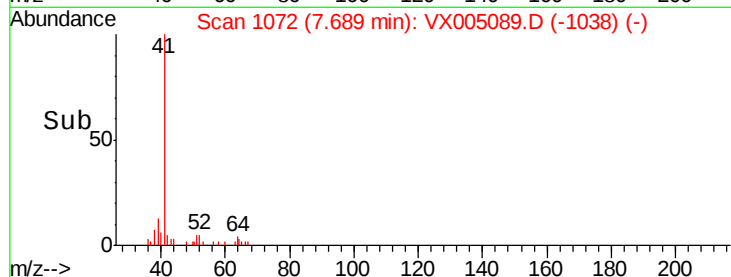
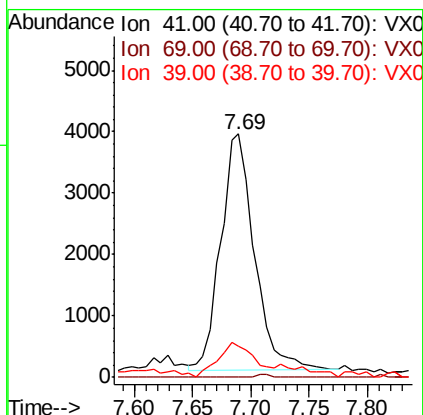
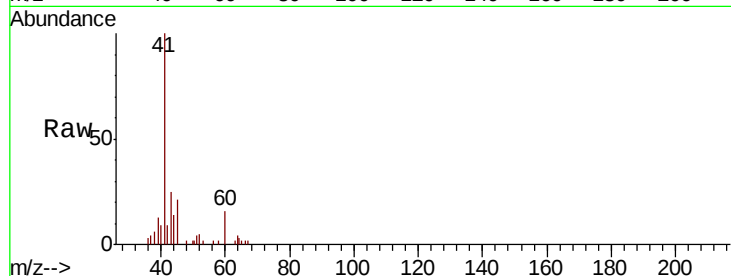




#48
Methyl methacrylate
Concen: 2.391 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

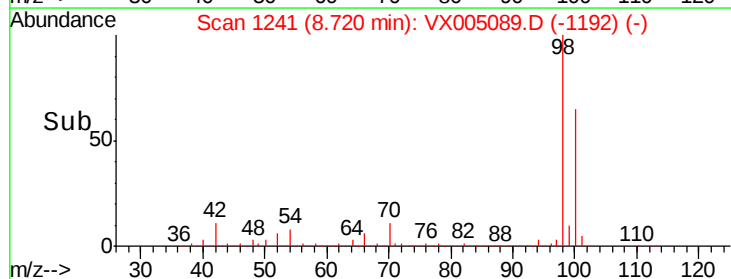
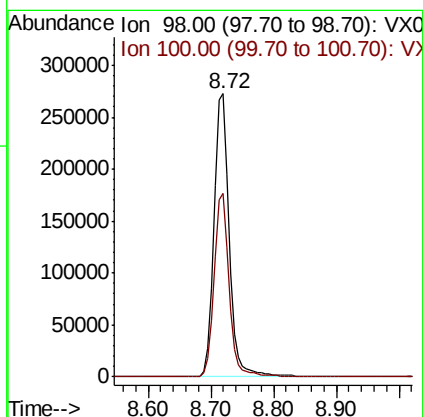
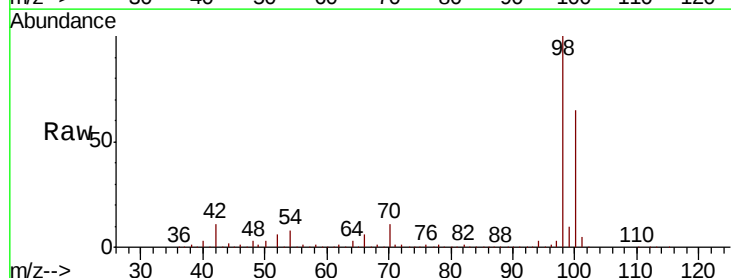
Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#04

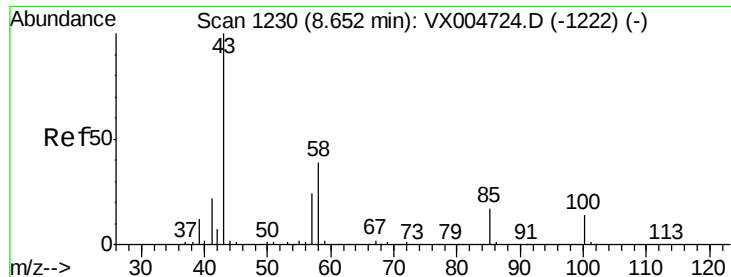
Tot Ion: 41 Resp: 7671
Ion Ratio Lower Upper
41 100
69 0.0 63.8 95.6#
39 15.9 40.7 61.1#



#50
Toluene-d8
Concen: 51.082 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

Tgt Ion: 98 Resp: 459141
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 0.621 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

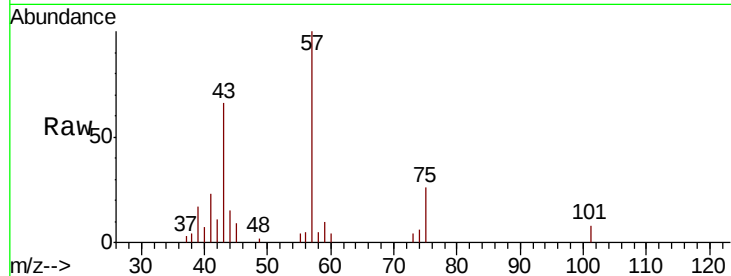
PB113539ZHE#04

Tot Ion: 43 Resp: 2764

Ion Ratio Lower Upper

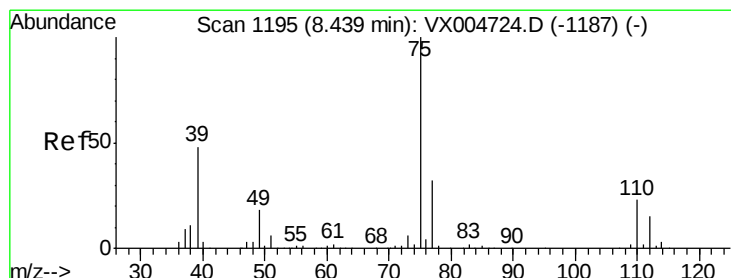
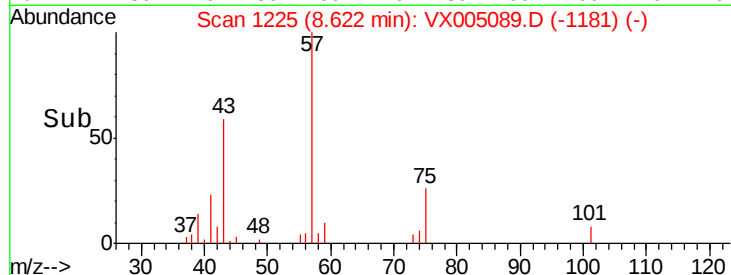
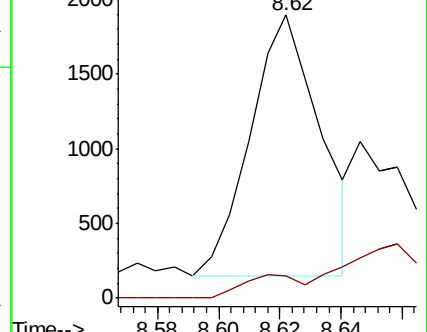
43 100

58 7.5 30.5 45.7#



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: 0.295 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

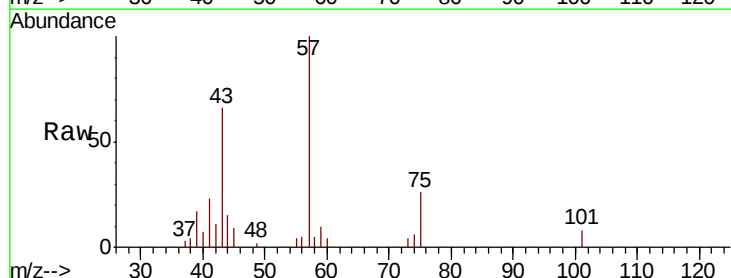
Tgt Ion: 75 Resp: 1165

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

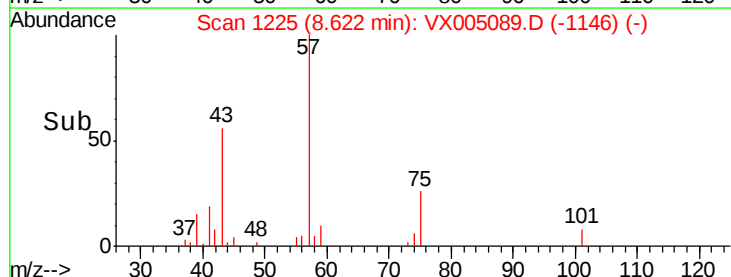
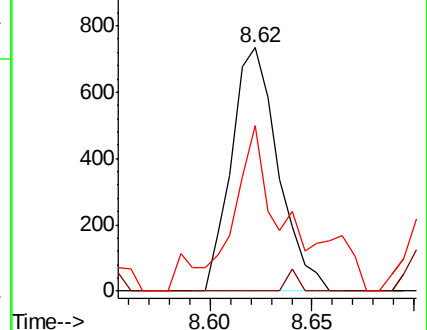
39 58.7 38.3 57.5#

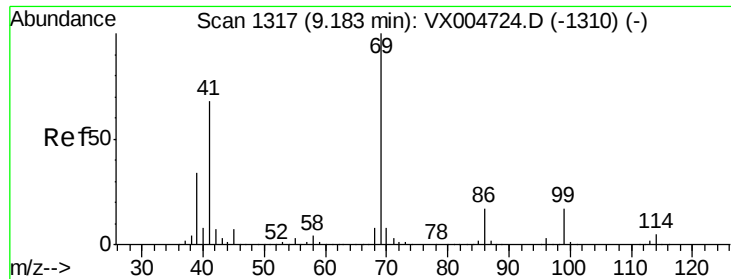


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#56

Ethyl methacrylate

Concen: 2.884 ug/l

RT: 9.02 min Scan# 1290

Delta R.T. -0.16 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

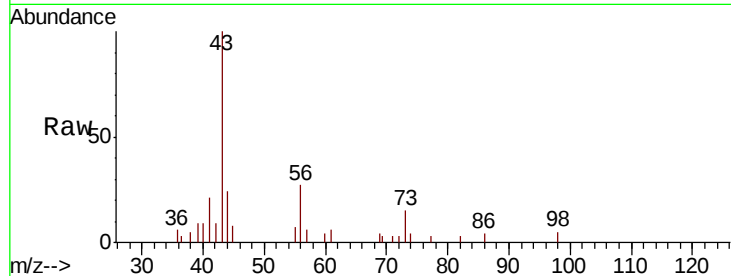
Tot Ion: 69.00 Resp: 107

Ion Ratio Lower Upper

69 100

41 346.7 56.9 85.3#

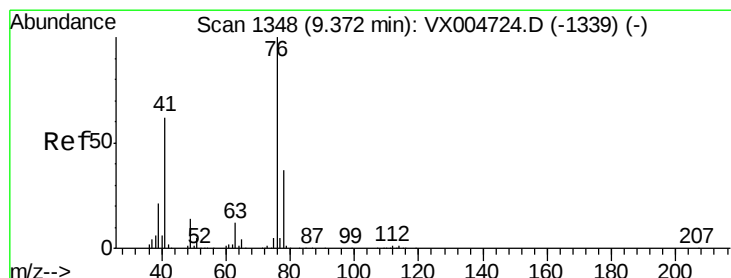
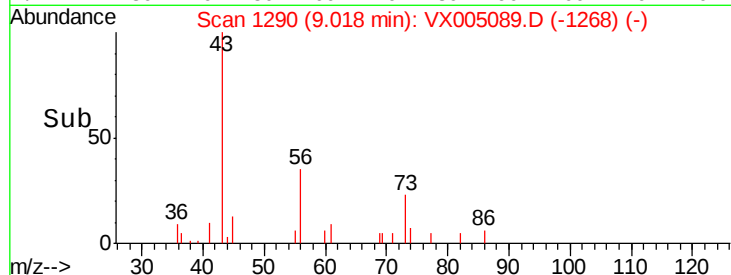
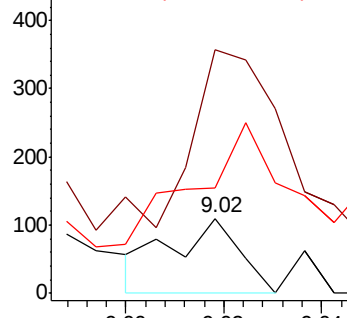
39 514.0 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 0.205 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.18 min

Lab File: VX005089.D

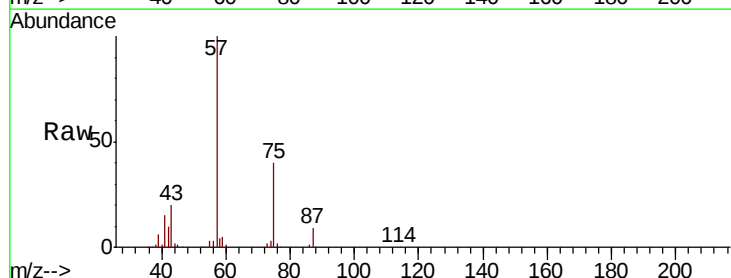
Acq: 06 Oct 2018 01:32

Tgt Ion: 76 Resp: 949

Ion Ratio Lower Upper

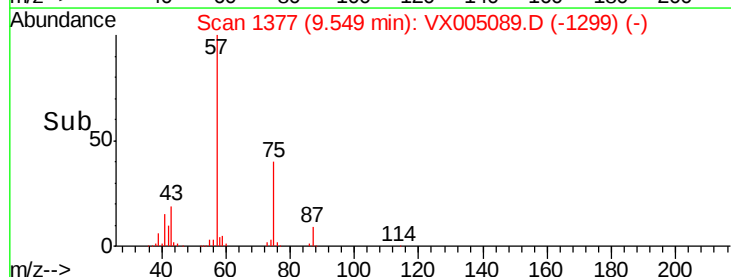
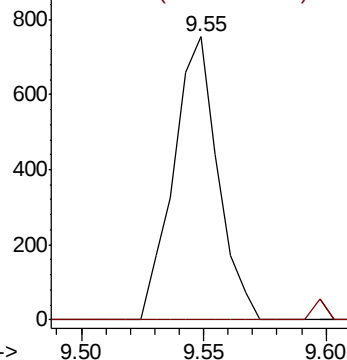
76 100

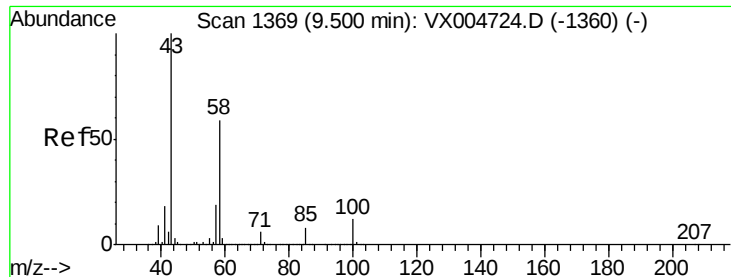
78 0.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

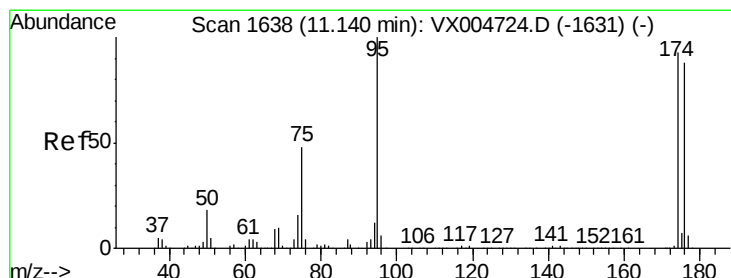
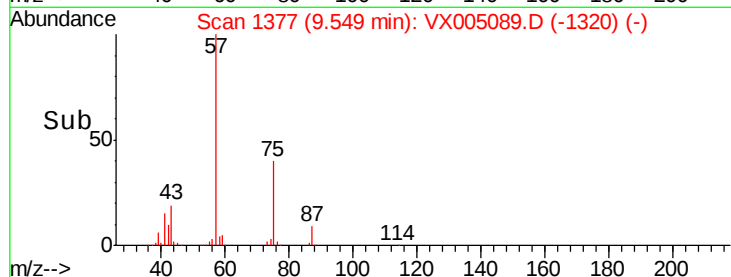
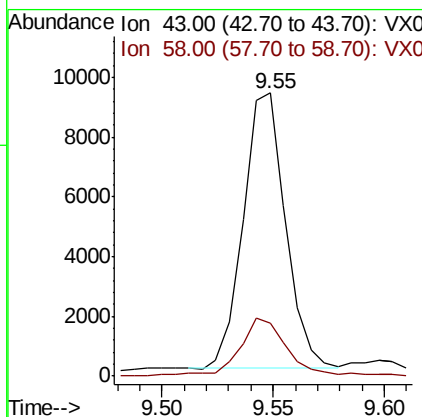
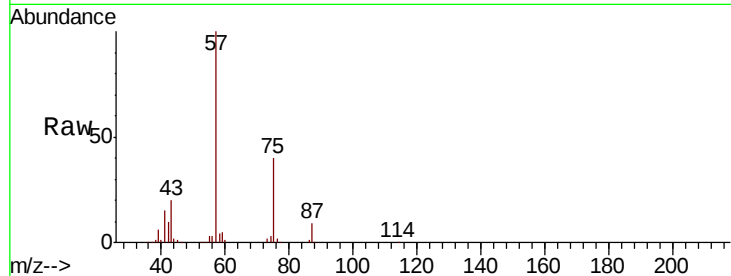




#59
2-Hexanone
Concen: 3.284 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

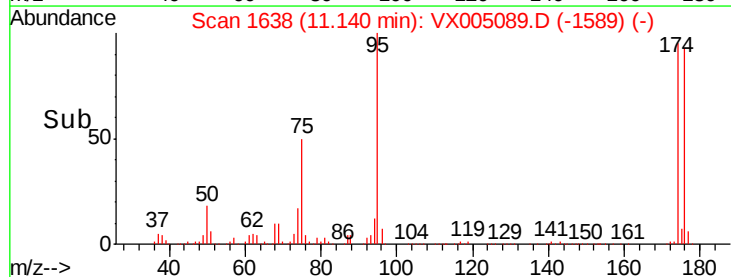
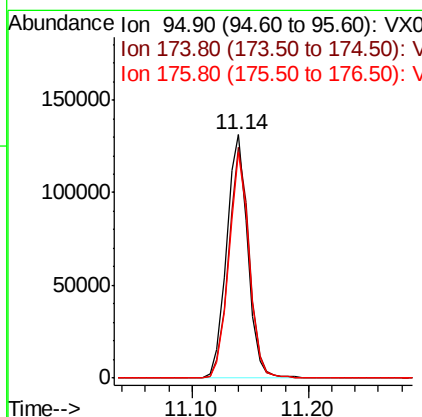
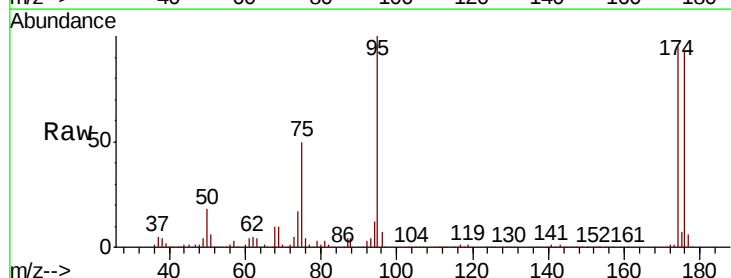
Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#04

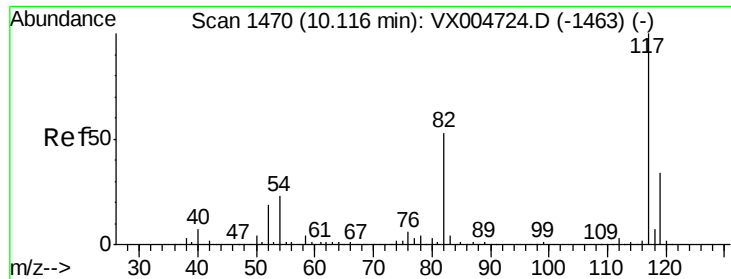
Tot Ion: 43 Resp: 12179
Ion Ratio Lower Upper
43 100
58 24.3 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 50.947 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

Tgt Ion: 95 Resp: 164972
Ion Ratio Lower Upper
95 100
174 93.4 0.0 185.0
176 89.2 0.0 180.2

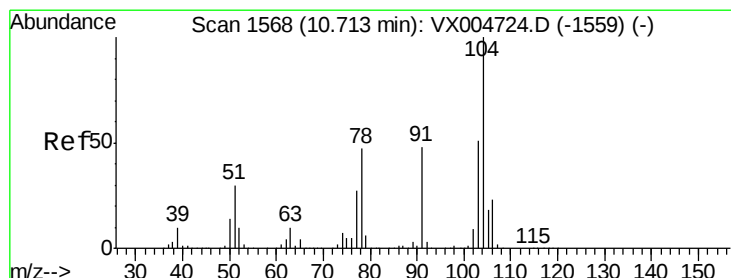
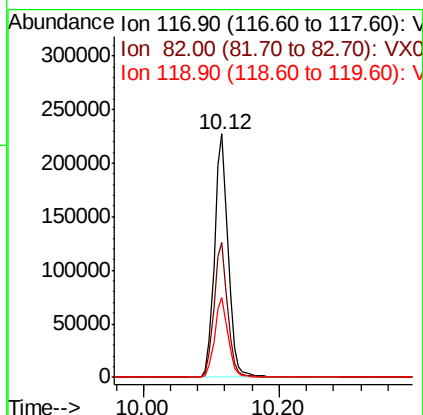
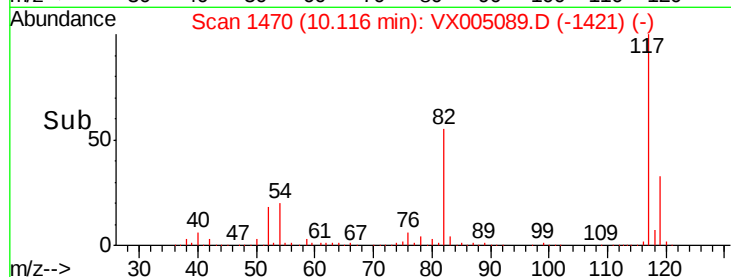
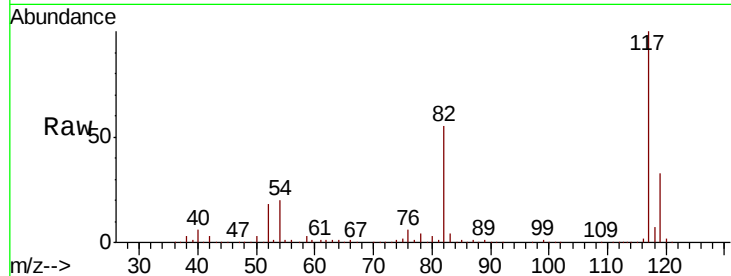




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

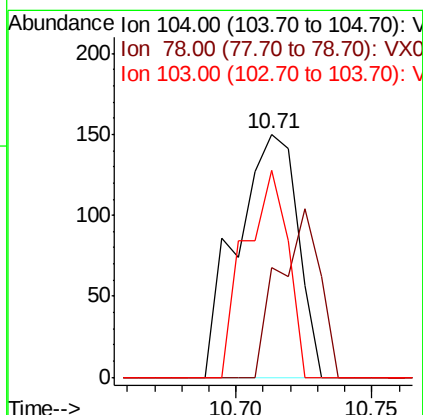
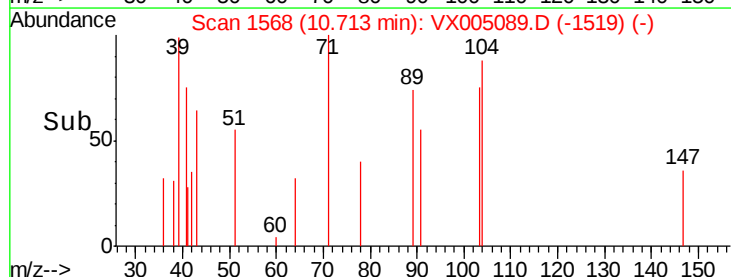
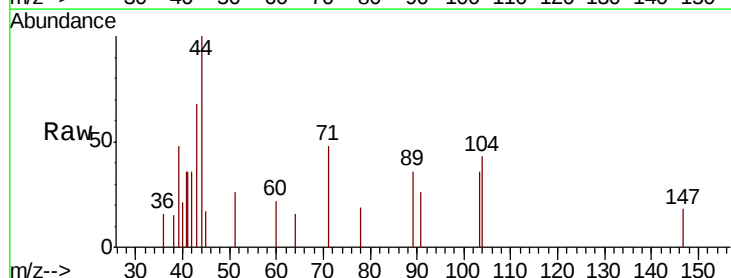
Instrument :
MSVOA_X
ClientSampleId :
PB113539ZHE#04

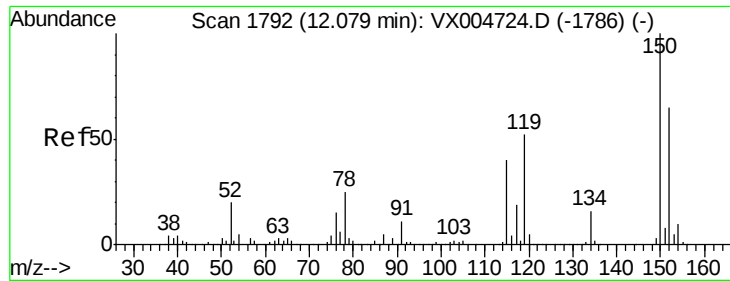
Tot Ion:117 Resp: 317272
Ion Ratio Lower Upper
117 100
82 55.2 42.2 63.4
119 32.6 27.4 41.0



#70
Styrene
Concen: 2.166 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005089.D
Acq: 06 Oct 2018 01:32

Tgt Ion:104 Resp: 232
Ion Ratio Lower Upper
104 100
78 46.6 40.0 60.0
103 59.9 44.3 66.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

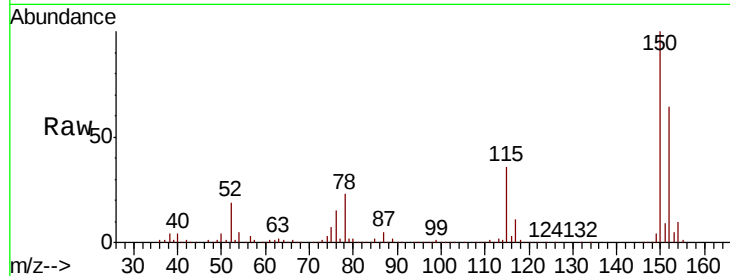
Tot Ion:152 Resp: 175439

Ion Ratio Lower Upper

152 100

115 54.8 40.2 120.6

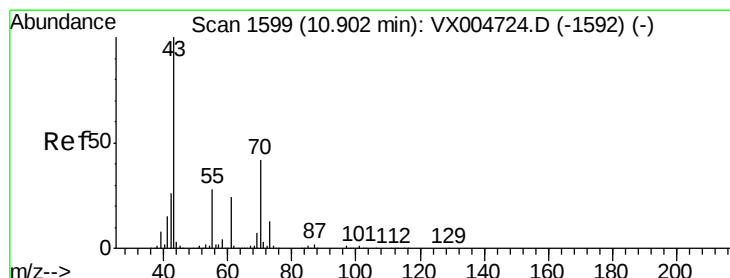
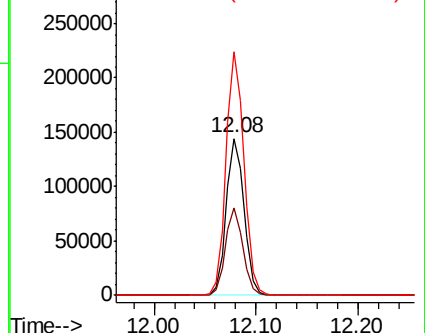
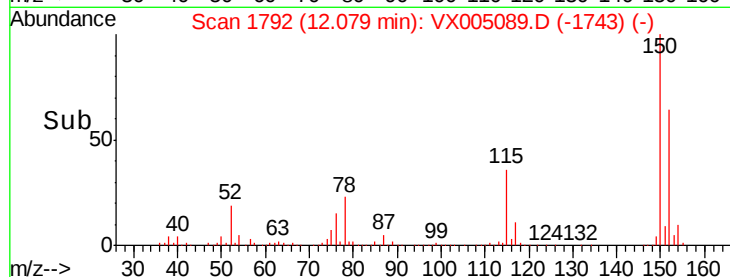
150 155.7 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.758 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Tgt Ion: 43 Resp: 64

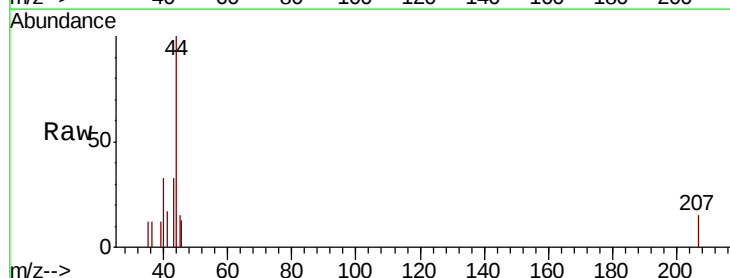
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 34.4 21.6 32.4#

61 0.0 19.1 28.7#

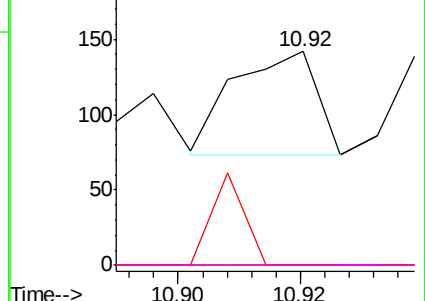
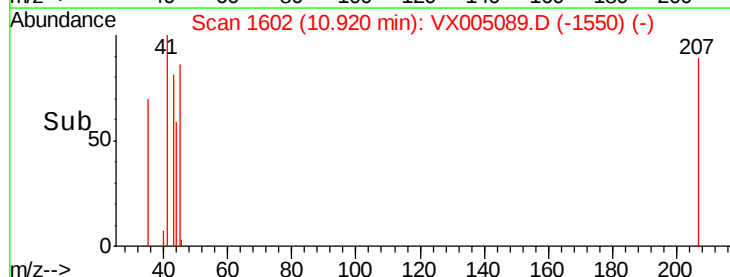


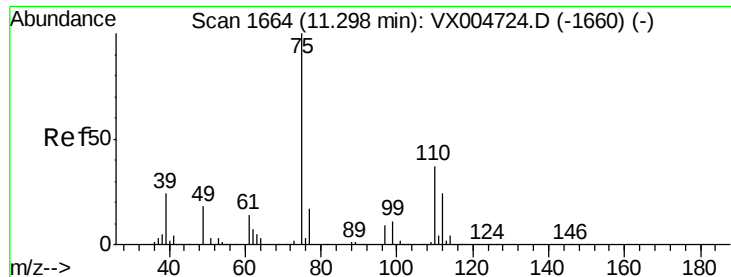
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.963 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

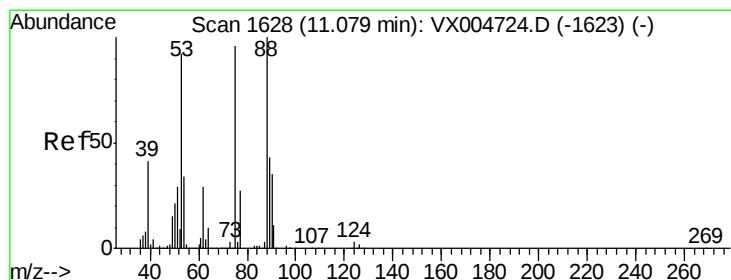
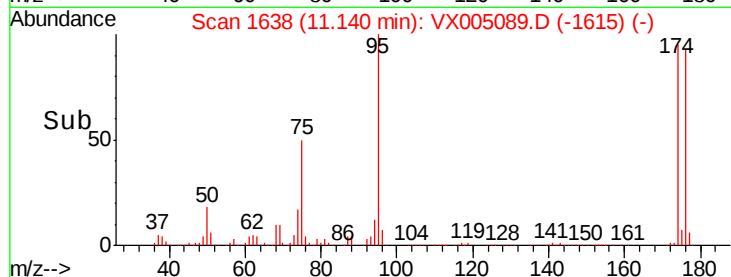
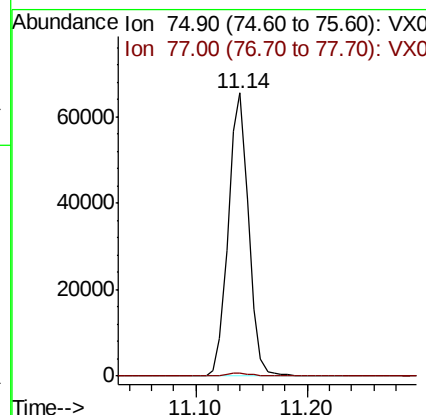
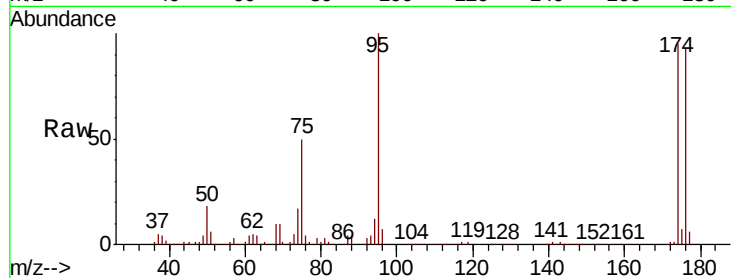
PB113539ZHE#04

Tot Ion: 75 Resp: 82432

Ion Ratio Lower Upper

75 100

77 1.3 21.4 64.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.889 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

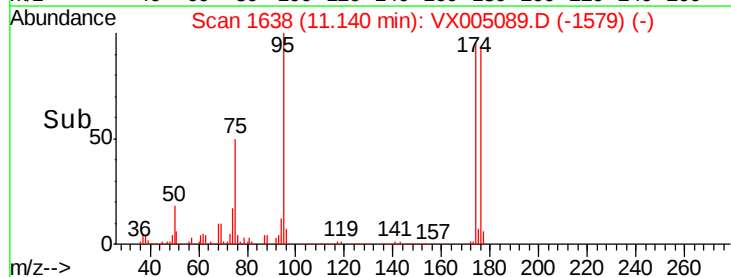
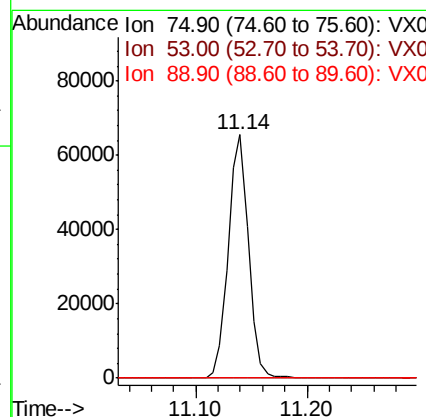
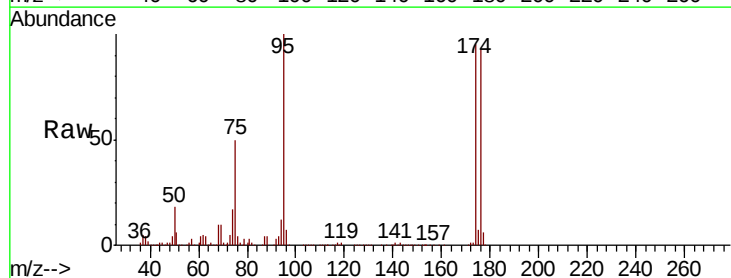
Tgt Ion: 75 Resp: 82432

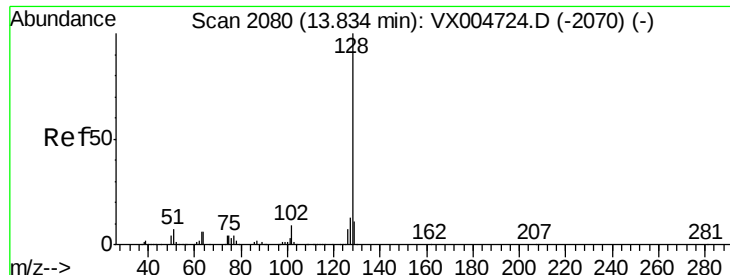
Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.753 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX005089.D

Acq: 06 Oct 2018 01:32

Instrument :

MSVOA_X

ClientSampleId :

PB113539ZHE#04

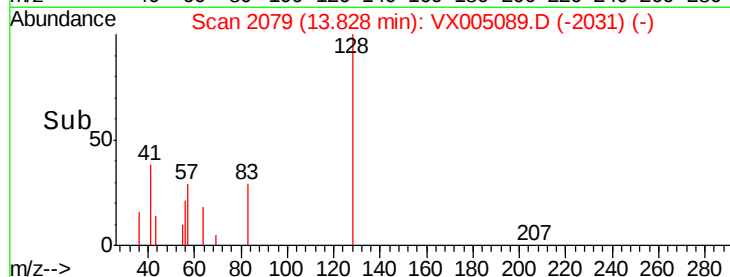
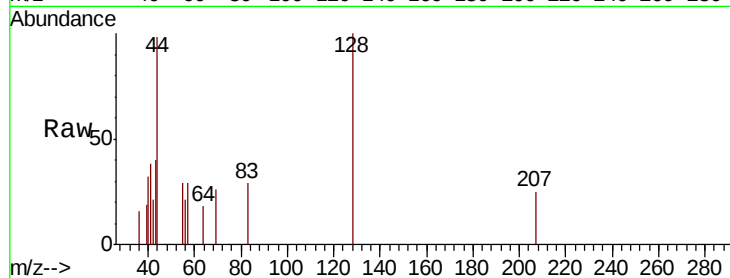
Tot Ion:128 Resp: 495

Ion Ratio Lower Upper

128 100

127 4.4 10.4 15.6#

129 4.4 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

