

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX013019\
 Data File : VX007321.D
 Acq On : 30 Jan 2019 18:04
 Operator : JC/SP
 Sample : K1282-28
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-7

Quant Time: Jan 31 00:25:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	521045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	817145	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	796735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	383212	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	284477	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
35) Dibromofluoromethane	5.50	113	257037	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
50) Toluene-d8	8.71	98	1003008	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	11.13	95	354974	53.16	ug/l	0.00
Spiked Amount			Recovery	=	106.32%	

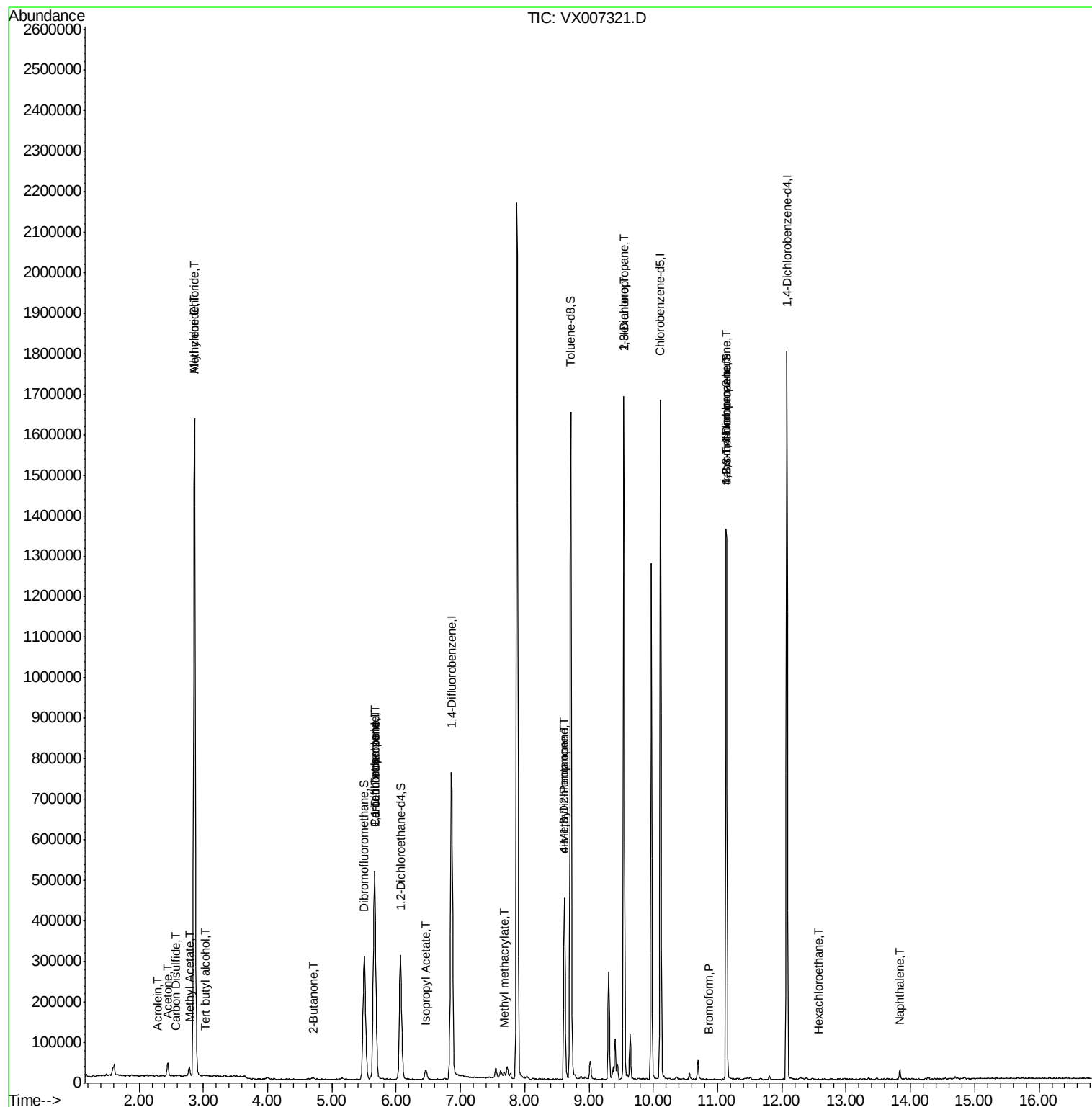
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	1653	1.287	ug/l #	91
13) Acrolein	2.28	56	556	4.075	ug/l #	37
14) Allyl chloride	2.86	41	27460	3.346	ug/l #	25
16) Acetone	2.45	43	34804	12.929	ug/l	98
17) Carbon Disulfide	2.57	76	2605	0.211	ug/l #	95
18) Methyl Acetate	2.78	43	28120	3.607	ug/l	93
20) Methylene Chloride	2.86	84	751085	147.797	ug/l	96
25) 2-Butanone	4.71	43	8056	2.091	ug/l #	82
36) 1,1-Dichloropropene	5.67	75	33896	4.771	ug/l #	49
38) Carbon Tetrachloride	5.67	117	47385	6.629	ug/l #	15
43) Isopropyl Acetate	6.46	43	30019	2.499	ug/l	97
48) Methyl methacrylate	7.68	41	15949	2.585	ug/l #	12
49) 1,4-Dioxane	7.73	88	253	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	149161	19.319	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	71457	8.950	ug/l #	67
57) 1,3-Dichloropropane	9.54	76	13856	1.517	ug/l #	43
59) 2-Hexanone	9.54	43	180682	30.708	ug/l #	52
71) Bromoform	10.86	173	98	4.745	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	172017	22.151	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	172017	65.574	ug/l #	10
90) Hexachloroethane	12.57	117	124	2.939	ug/l	94
95) Naphthalene	13.83	128	14587	0.528	ug/l #	96

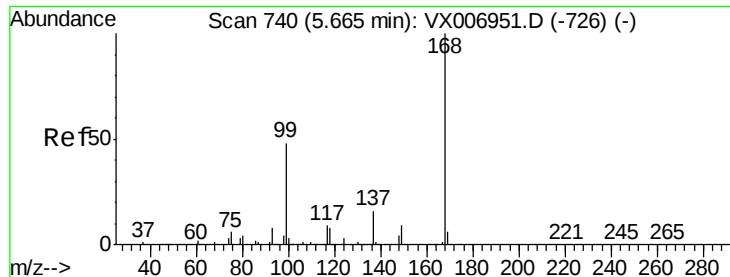
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

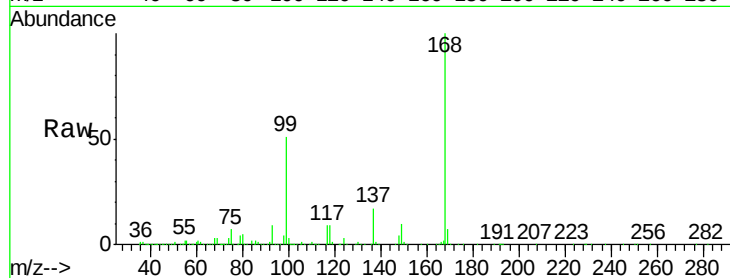
TP-7

Tot Ion:168 Resp: 521045

Ion Ratio Lower Upper

168 100

99 50.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

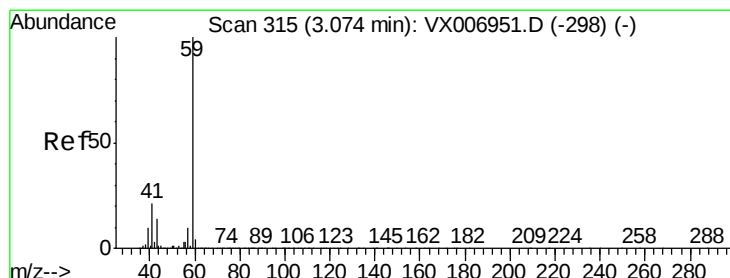
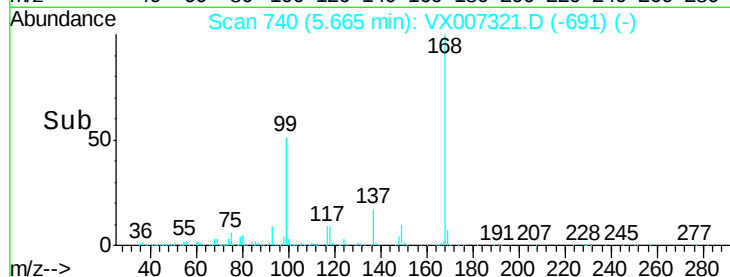
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.287 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.04 min

Lab File: VX007321.D

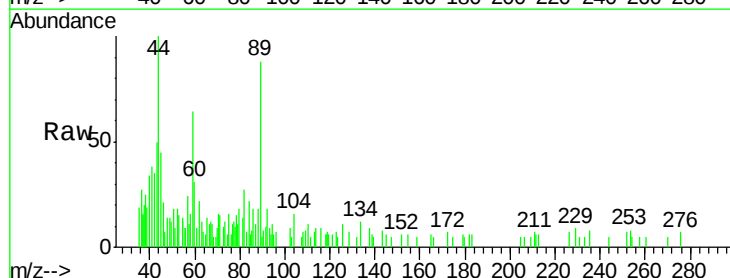
Acq: 30 Jan 2019 18:04

Tgt Ion: 59 Resp: 1653

Ion Ratio Lower Upper

59 100

57 7.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

800

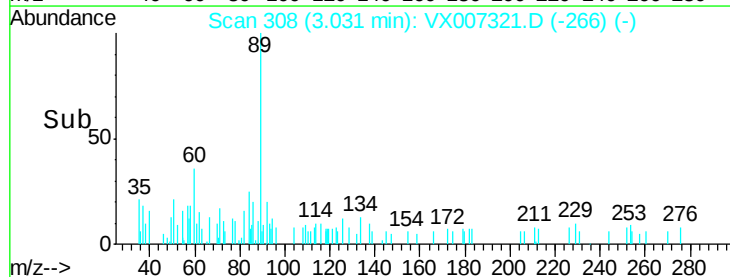
600

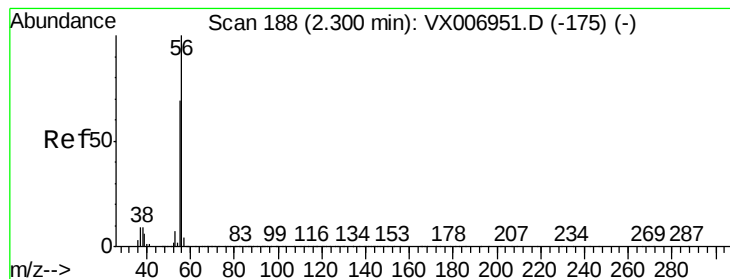
400

200

0

Time-->





#13

Acrolein

Concen: 4.075 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

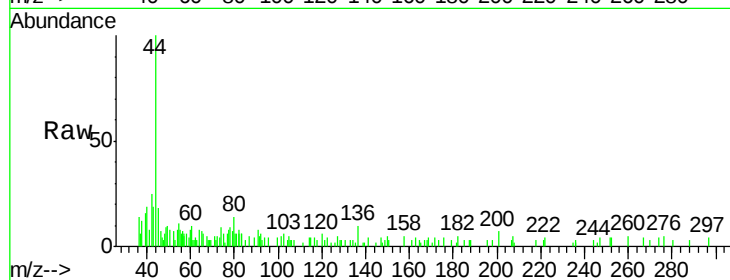
TP-7

Tot Ion: 56 Resp: 556

Ion Ratio Lower Upper

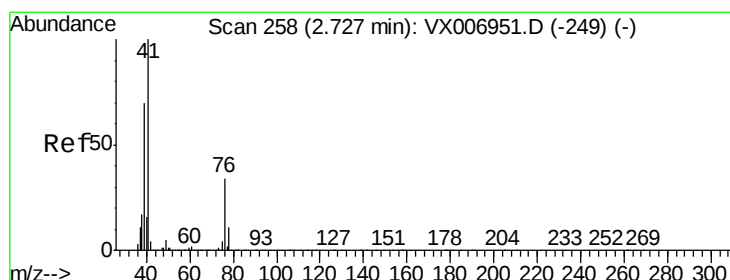
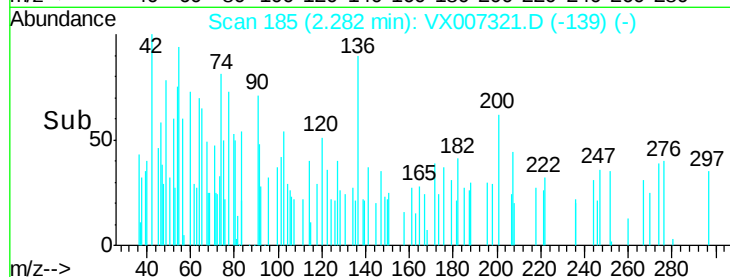
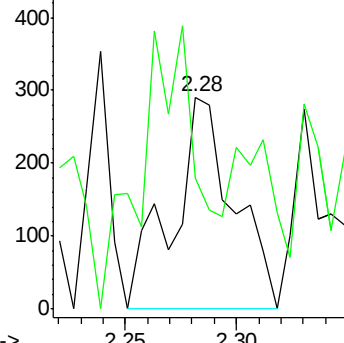
56 100

55 125.5 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 3.346 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.13 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

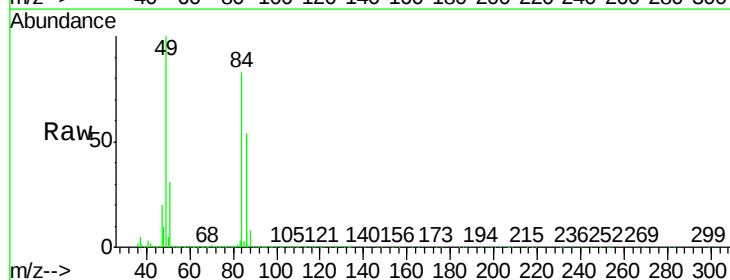
Tgt Ion: 41 Resp: 27460

Ion Ratio Lower Upper

41 100

39 1.0 53.6 80.4#

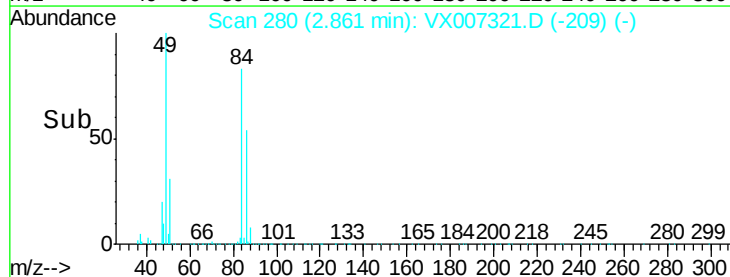
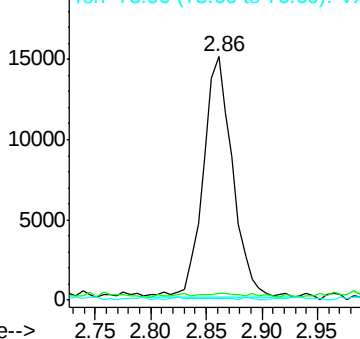
76 0.0 27.4 41.2#

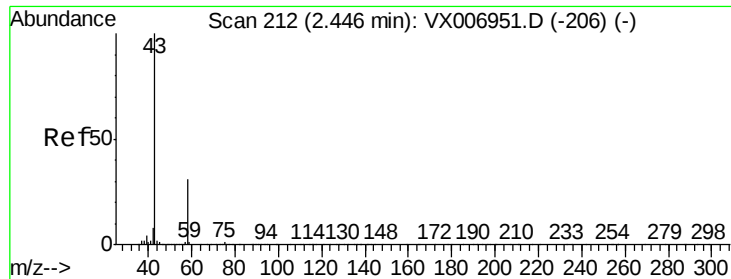


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

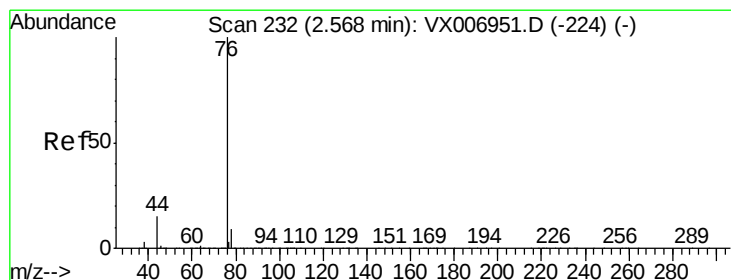
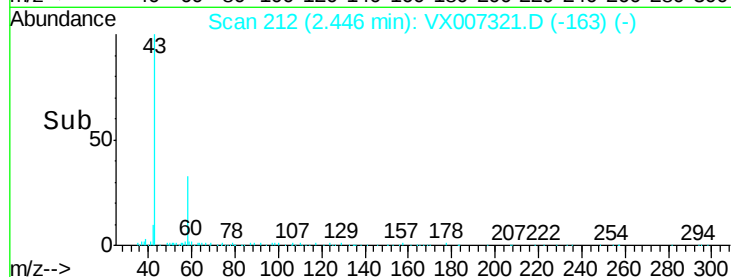
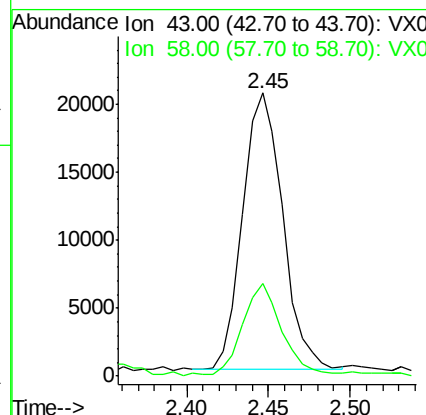
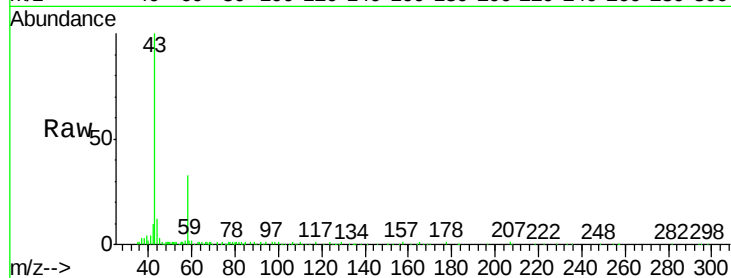




#16
Acetone
Concen: 12.929 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007321.D
Acq: 30 Jan 2019 18:04

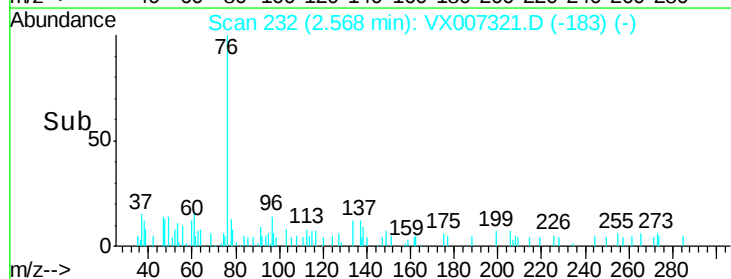
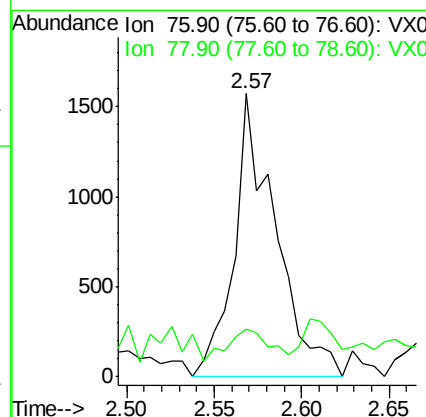
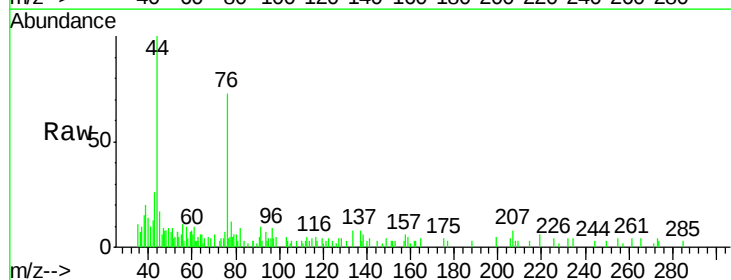
Instrument :
MSVOA_X
ClientSampleId :
TP-7

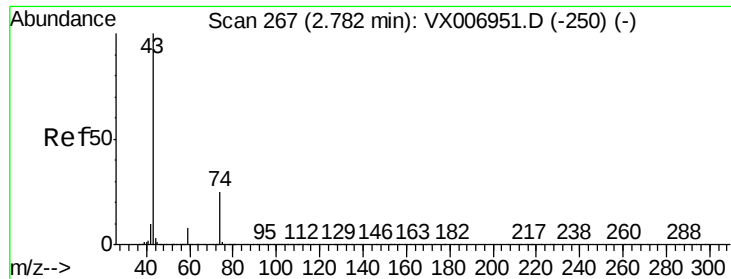
Tot Ion: 43 Resp: 34804
Ion Ratio Lower Upper
43 100
58 32.5 25.0 37.6



#17
Carbon Disulfide
Concen: 0.211 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX007321.D
Acq: 30 Jan 2019 18:04

Tgt Ion: 76 Resp: 2605
Ion Ratio Lower Upper
76 100
78 7.0 7.0 10.6#

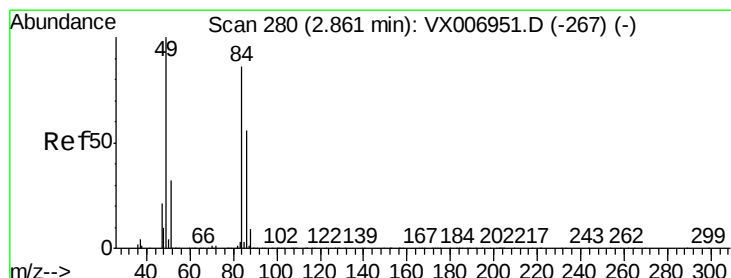
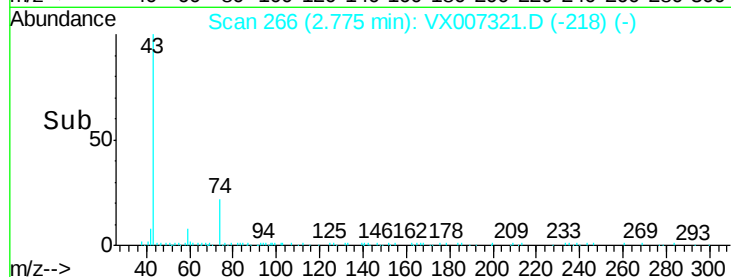
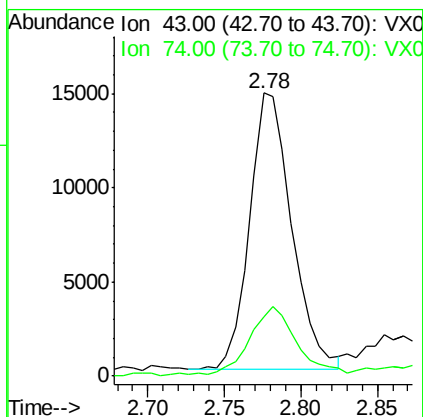
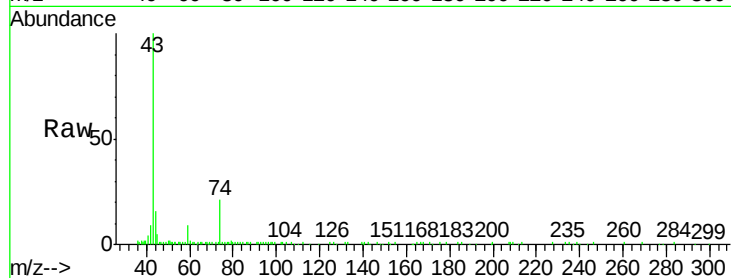




#18
Methyl Acetate
Concen: 3.607 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX007321.D
Acq: 30 Jan 2019 18:04

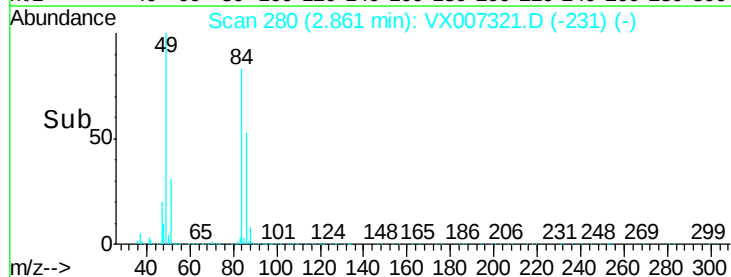
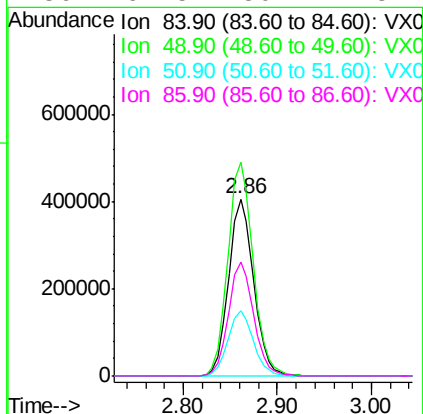
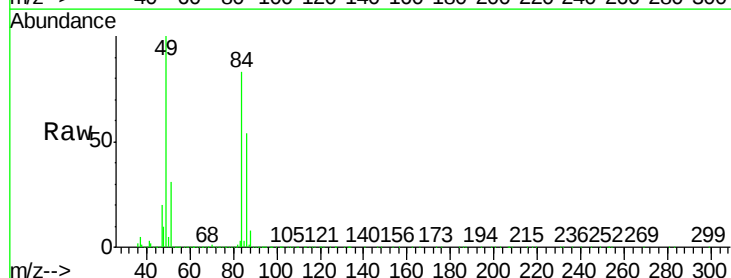
Instrument :
MSVOA_X
ClientSampleId :
TP-7

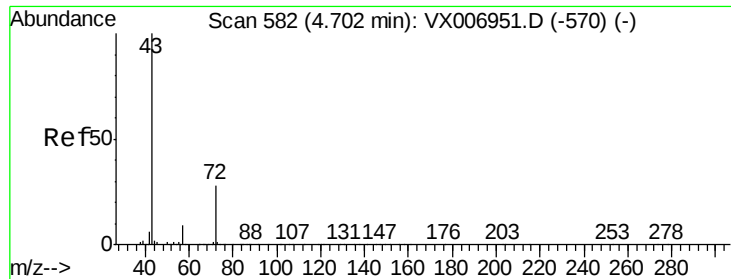
Tot Ion: 43 Resp: 28120
Ion Ratio Lower Upper
43 100
74 26.8 18.6 28.0



#20
Methylene Chloride
Concen: 147.797 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007321.D
Acq: 30 Jan 2019 18:04

Tgt Ion: 84 Resp: 751085
Ion Ratio Lower Upper
84 100
49 120.6 91.8 137.6
51 36.9 28.5 42.7
86 64.5 50.2 75.2

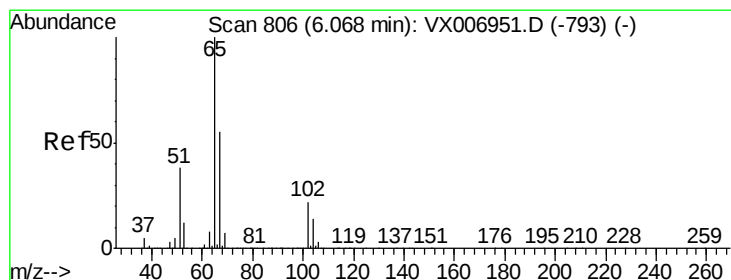
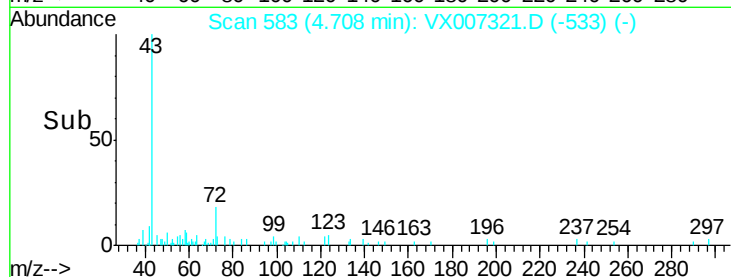
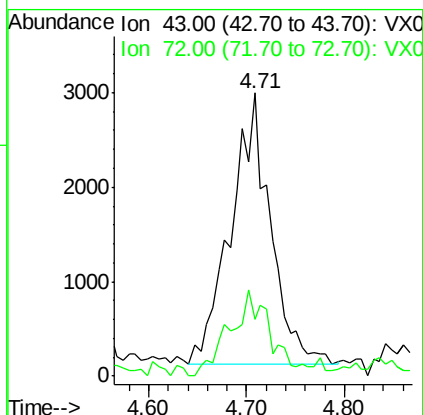
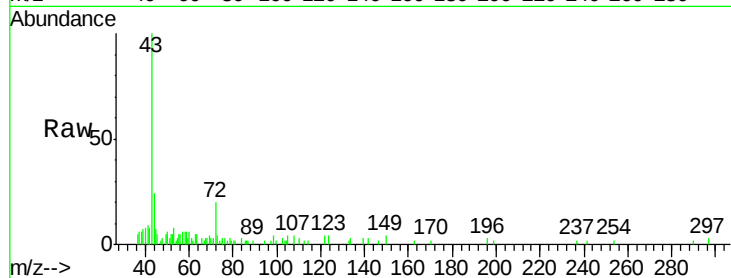




#25
2-Butanone
Concen: 2.091 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007321.D
Acq: 30 Jan 2019 18:04

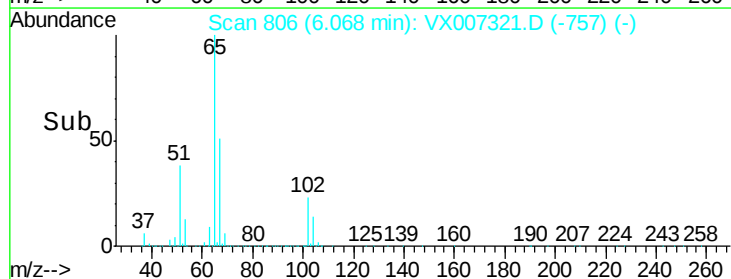
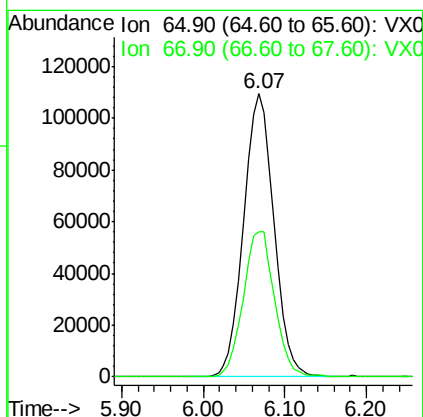
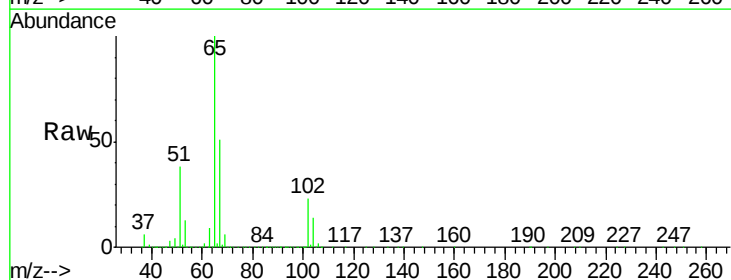
Instrument :
MSVOA_X
ClientSampled :
TP-7

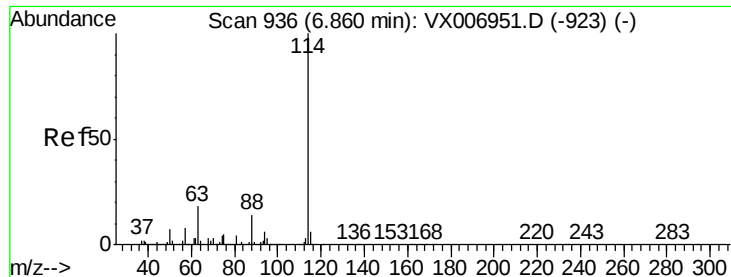
Tot Ion: 43 Resp: 8056
Ion Ratio Lower Upper
43 100
72 18.4 22.4 33.6#



#33
1,2-Dichloroethane-d4
Concen: 52.242 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007321.D
Acq: 30 Jan 2019 18:04

Tgt Ion: 65 Resp: 284477
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

TP-7

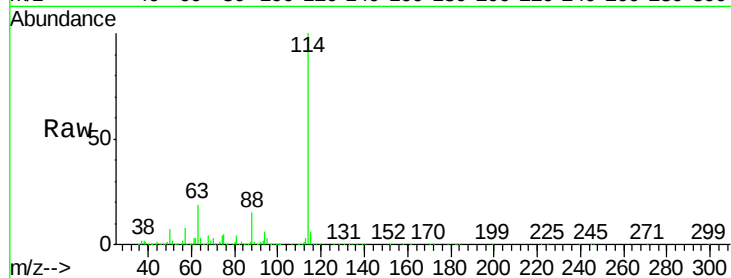
Tot Ion:114 Resp: 817145

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.8

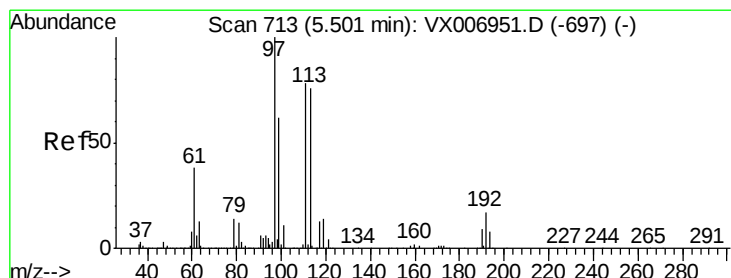
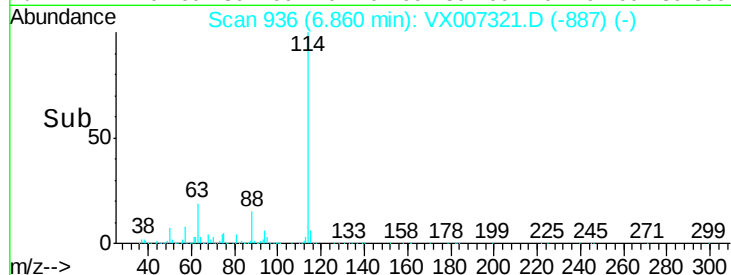
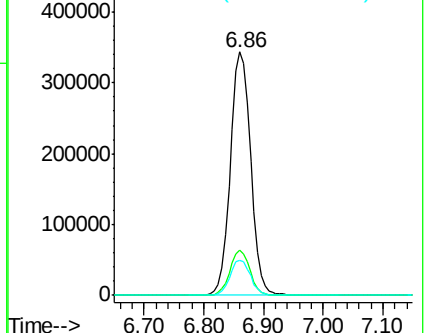
88 14.6 0.0 28.8



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: 49.119 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

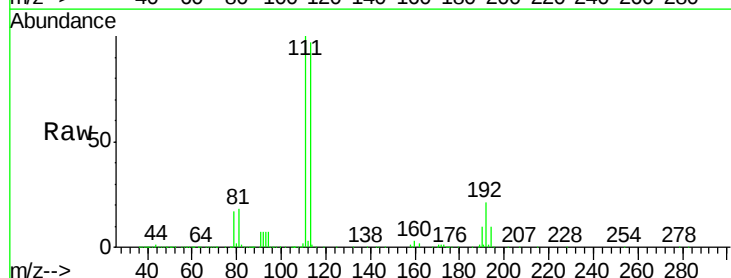
Tgt Ion:113 Resp: 257037

Ion Ratio Lower Upper

113 100

111 101.2 81.6 122.4

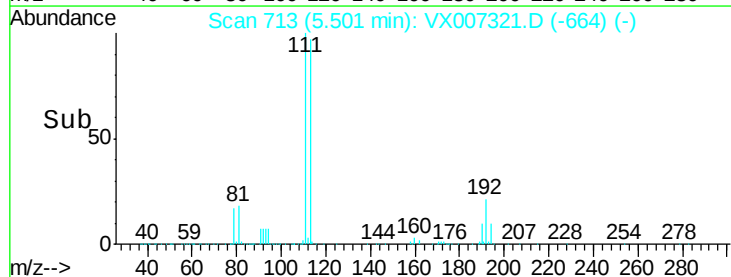
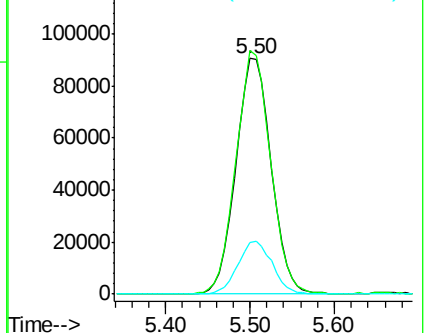
192 21.9 16.7 25.1

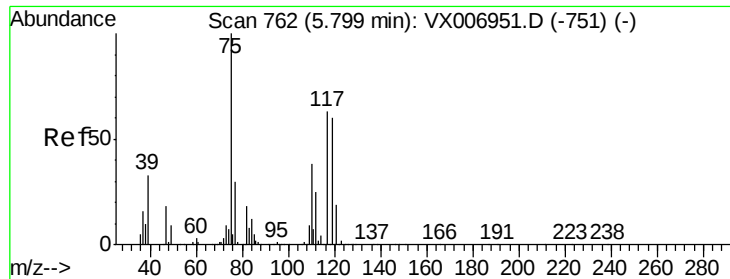


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.771 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

TP-7

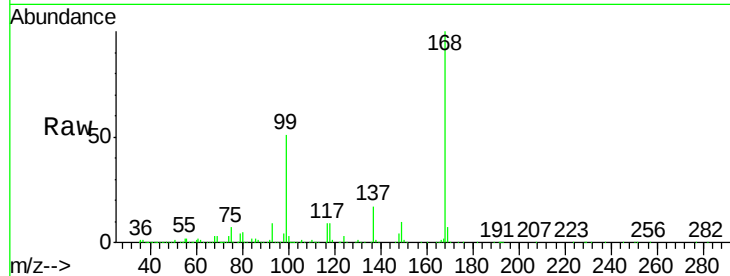
Tot Ion: 75 Resp: 33896

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

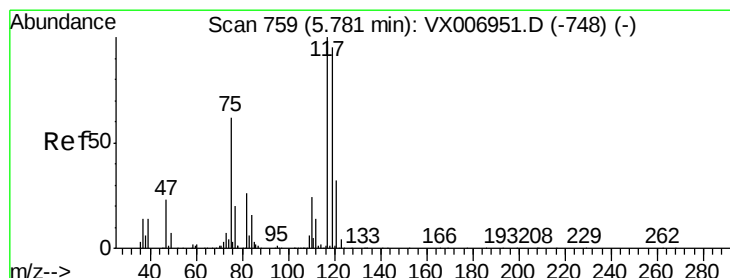
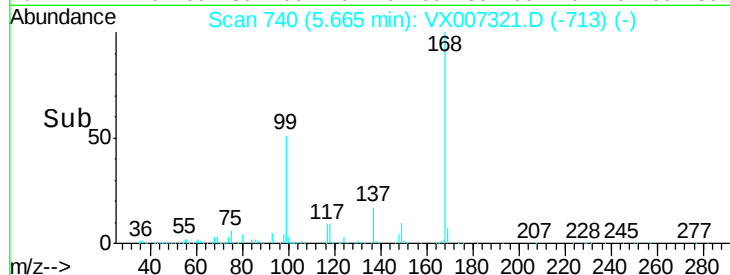
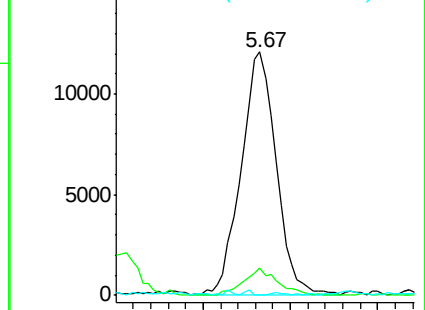
77 0.4 24.8 37.2#



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: 6.629 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

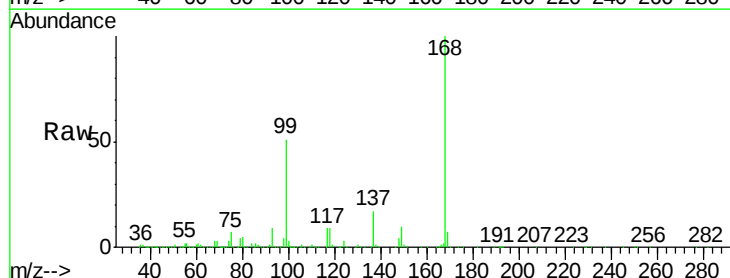
Tgt Ion: 117 Resp: 47385

Ion Ratio Lower Upper

117 100

119 5.8 79.4 119.2#

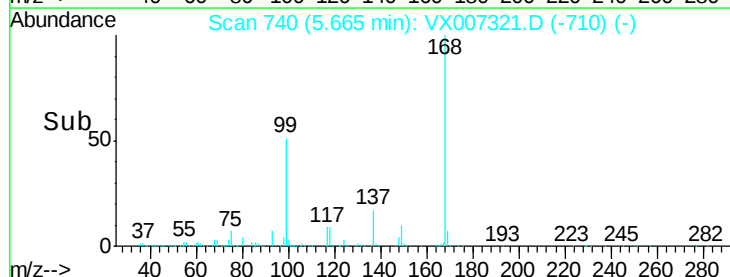
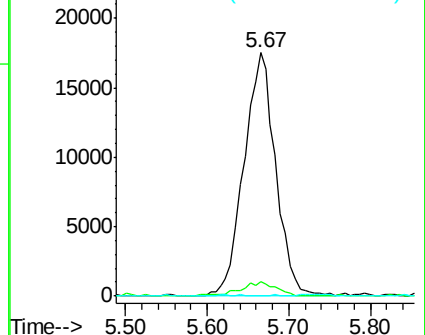
121 0.0 24.0 36.0#

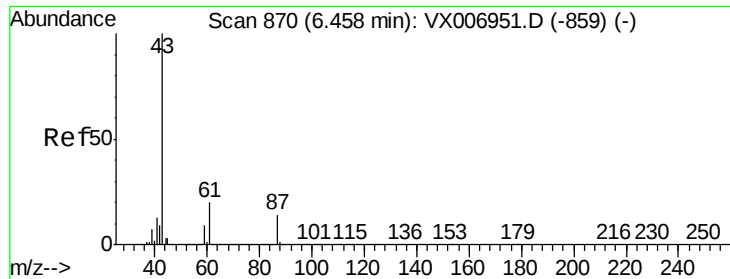


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



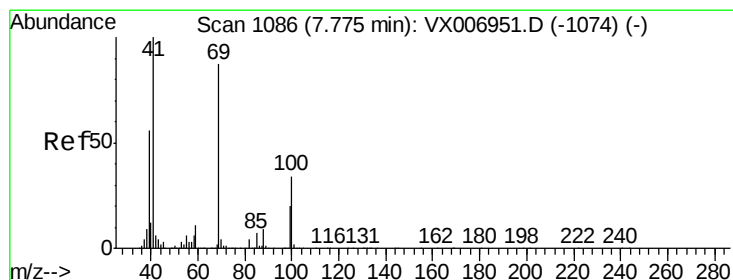
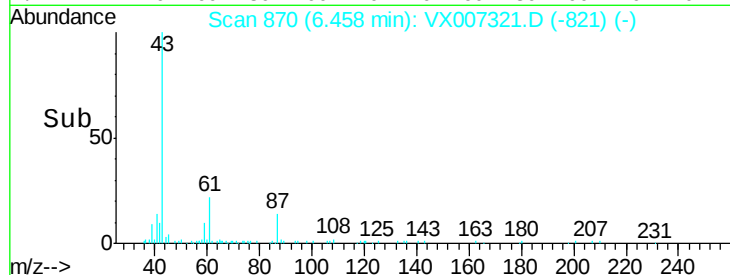
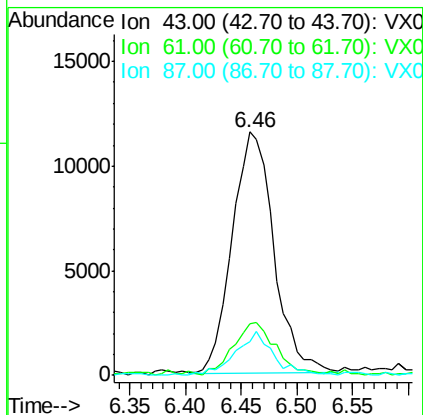
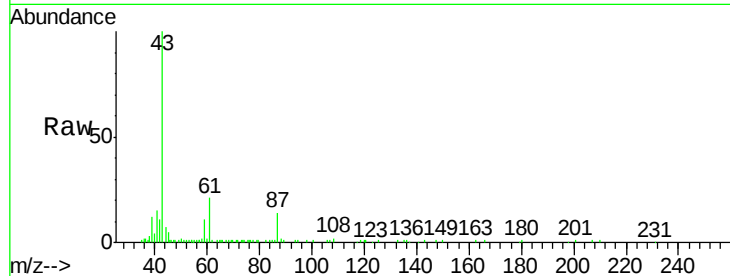


#43

Isopropyl Acetate
 Concen: 2.499 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.00 min
 Lab File: VX007321.D
 Acq: 30 Jan 2019 18:04

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-7

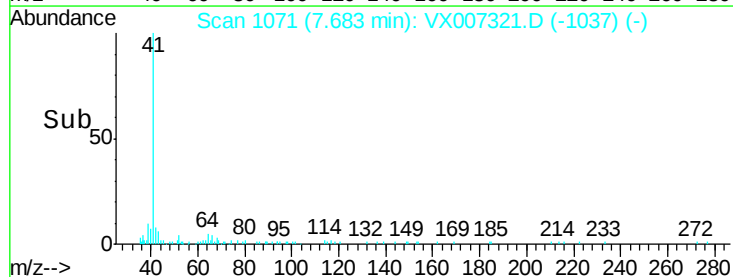
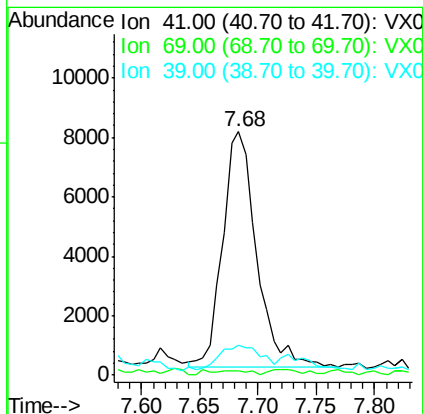
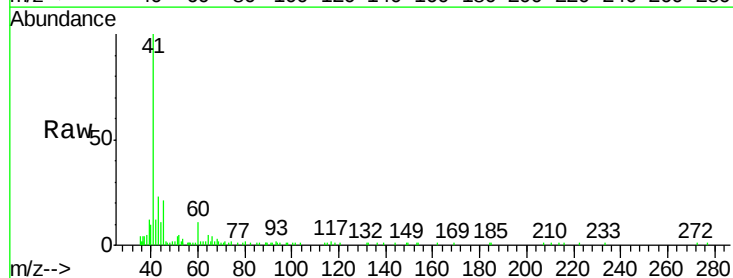
Tot Ion	Ratio	Lower	Upper
43	100		
61	22.4	16.8	25.2
87	16.8	12.4	18.6

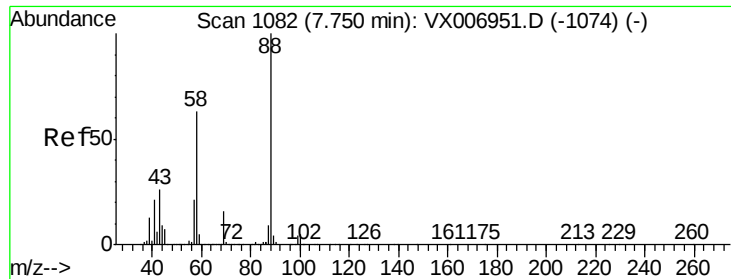


#48

Methyl methacrylate
 Concen: 2.585 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007321.D
 Acq: 30 Jan 2019 18:04

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.5	72.4	108.6#
39	0.0	45.8	68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

TP-7

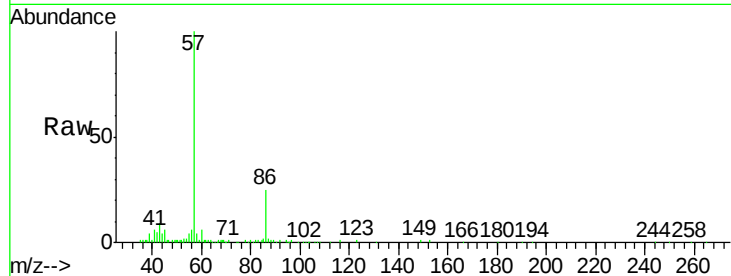
Tot Ion: 88 Resp: 253

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

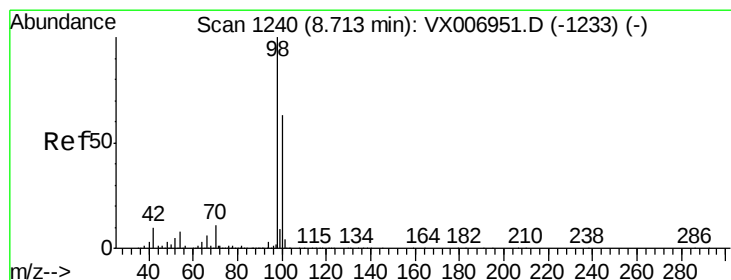
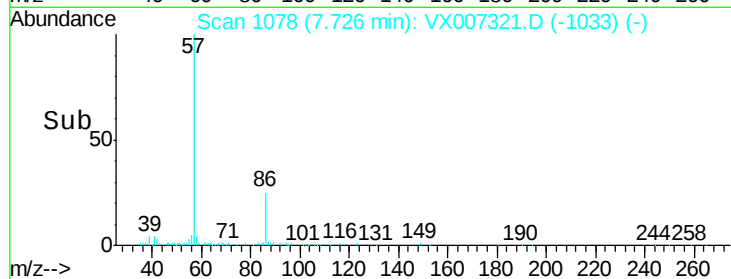
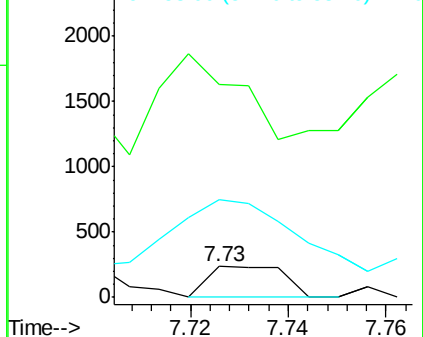
58 546.2 51.0 76.4#



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: 52.365 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007321.D

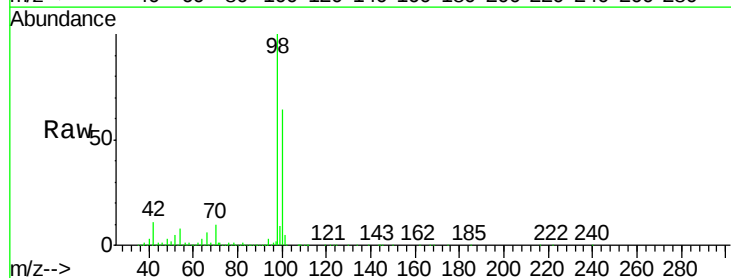
Acq: 30 Jan 2019 18:04

Tgt Ion: 98 Resp: 1003008

Ion Ratio Lower Upper

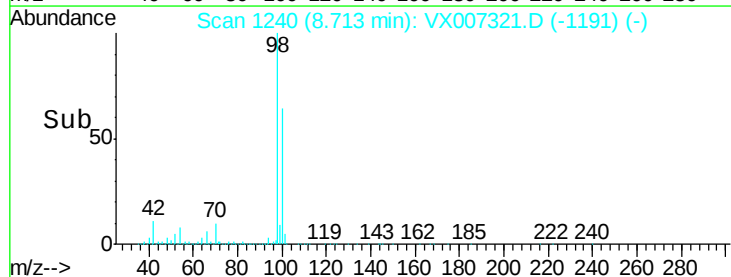
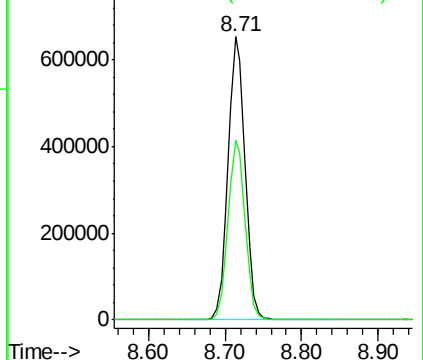
98 100

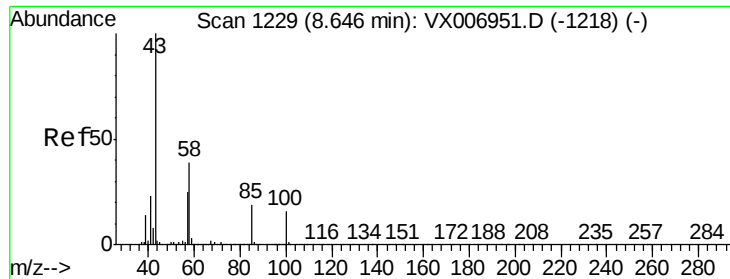
100 63.7 52.0 78.0



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: 19.319 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

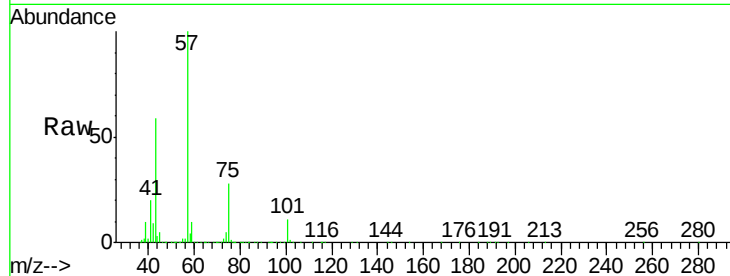
TP-7

Tot Ion: 43 Resp: 149161

Ion Ratio Lower Upper

43 100

58 9.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

100000

80000

60000

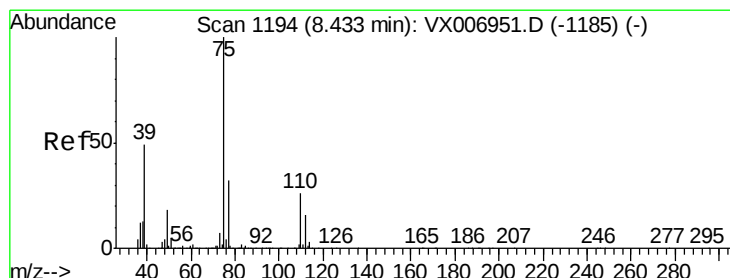
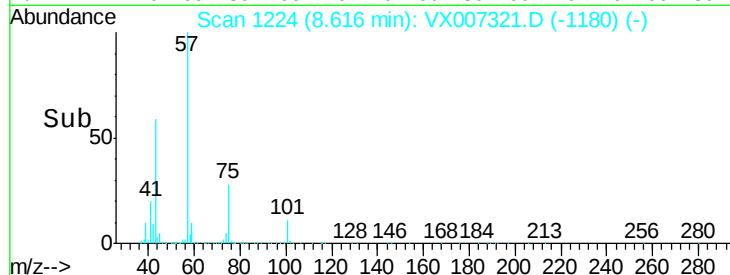
40000

20000

0

8.55 8.60 8.65 8.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 8.950 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

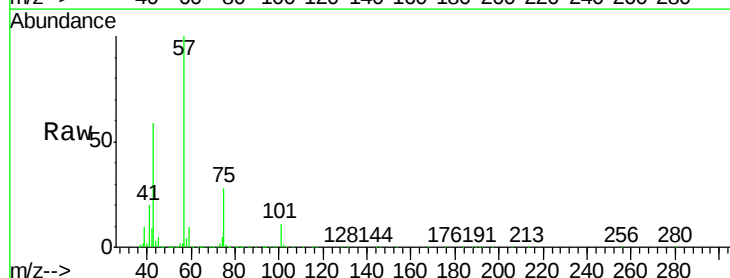
Tgt Ion: 75 Resp: 71457

Ion Ratio Lower Upper

75 100

77 0.9 26.2 39.2#

39 35.2 36.7 55.1#



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

8.62

60000

50000

40000

30000

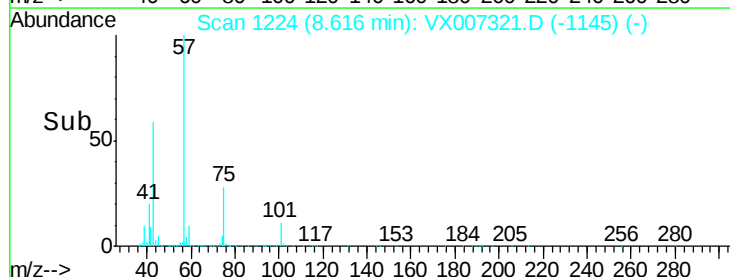
20000

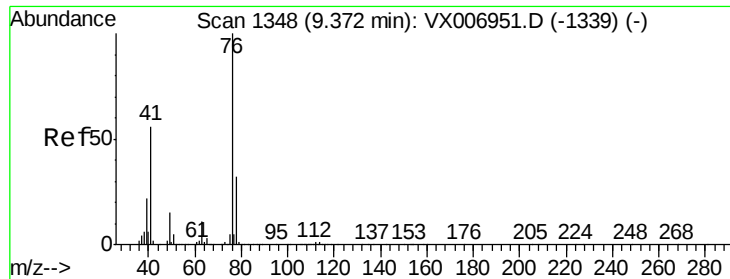
10000

0

8.55 8.60 8.65 8.70

Time-->





#57

1,3-Dichloropropane

Concen: 1.517 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

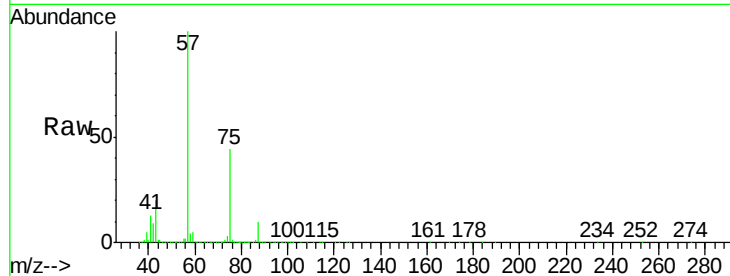
TP-7

Tot Ion: 76 Resp: 13856

Ion Ratio Lower Upper

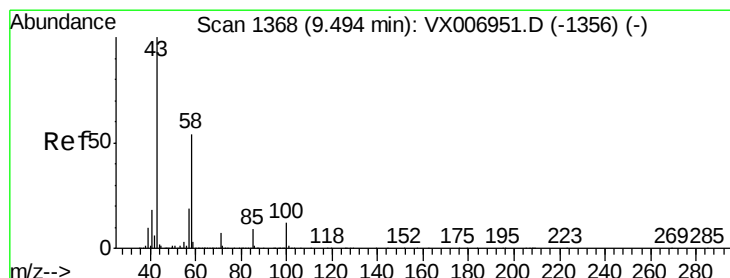
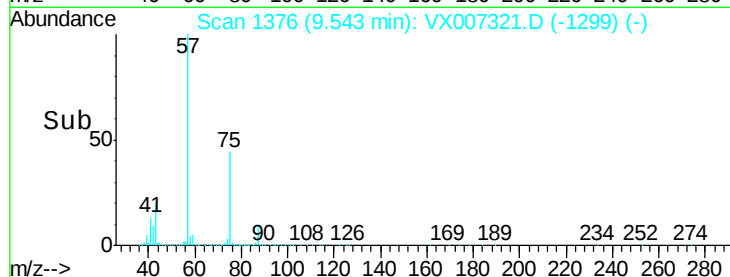
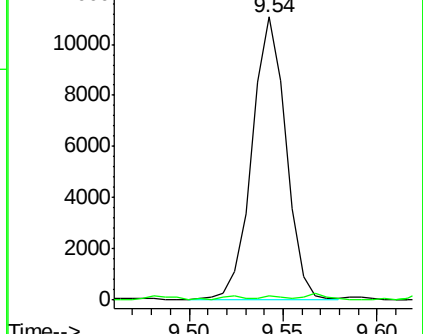
76 100

78 0.4 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 30.708 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007321.D

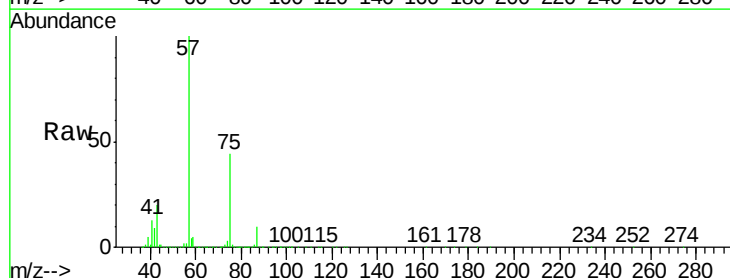
Acq: 30 Jan 2019 18:04

Tgt Ion: 43 Resp: 180682

Ion Ratio Lower Upper

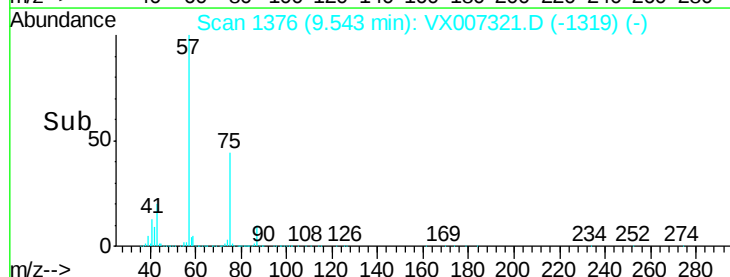
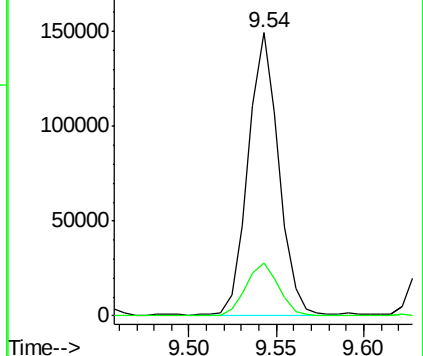
43 100

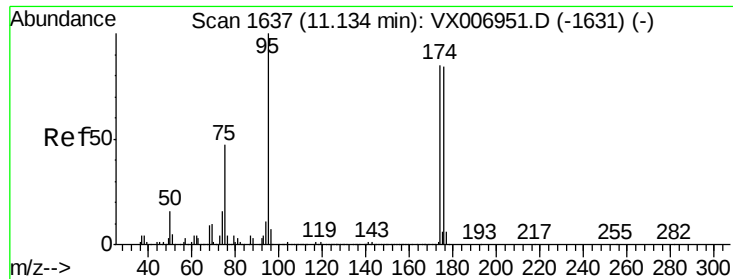
58 20.2 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.159 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampleId :

TP-7

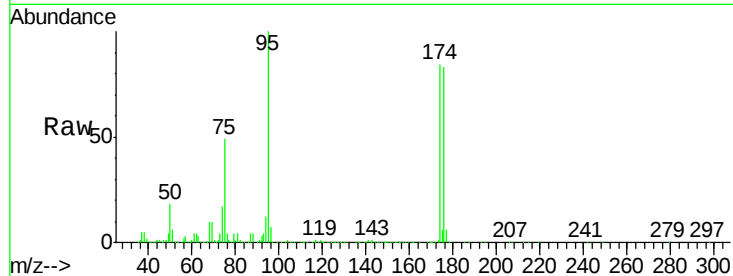
Tot Ion: 95 Resp: 354974

Ion Ratio Lower Upper

95 100

174 93.3 0.0 182.2

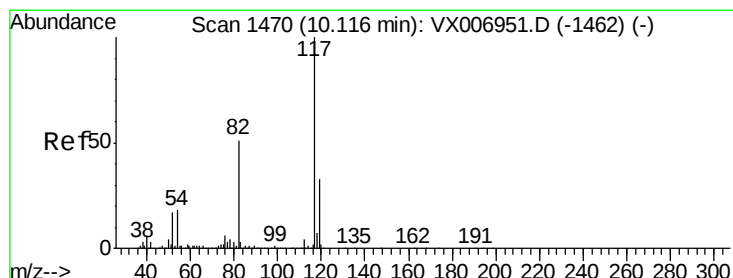
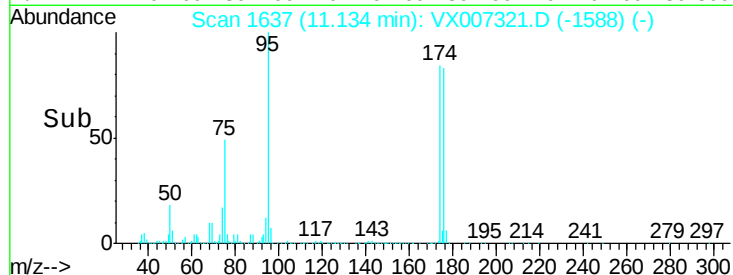
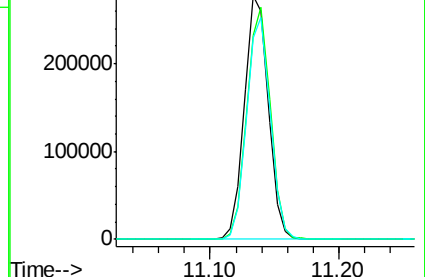
176 89.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

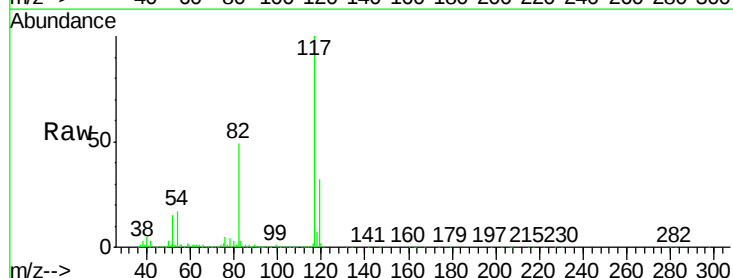
Tgt Ion: 117 Resp: 796735

Ion Ratio Lower Upper

117 100

82 49.2 41.0 61.6

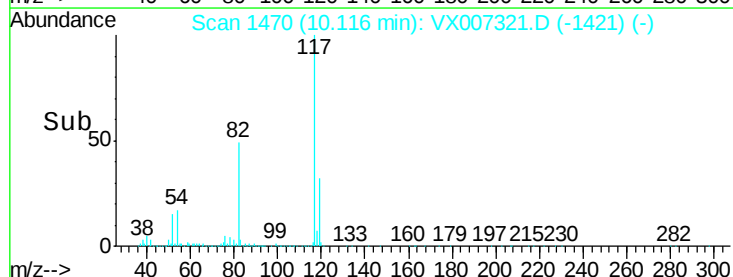
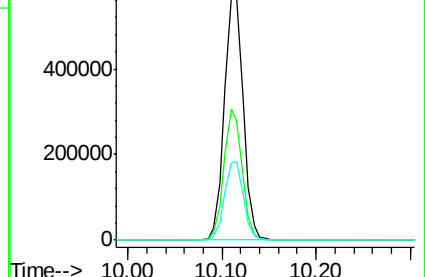
119 32.1 25.4 38.0

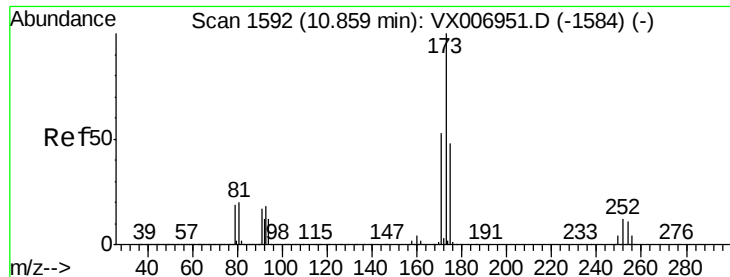


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#71

Bromoform

Concen: 4.745 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

TP-7

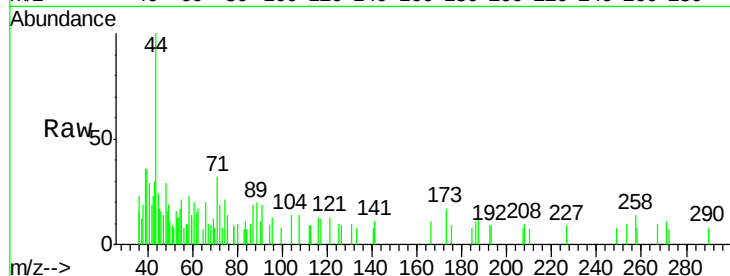
Tot Ion:173 Resp: 98

Ion Ratio Lower Upper

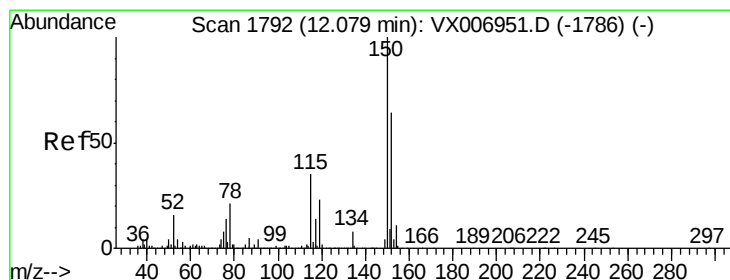
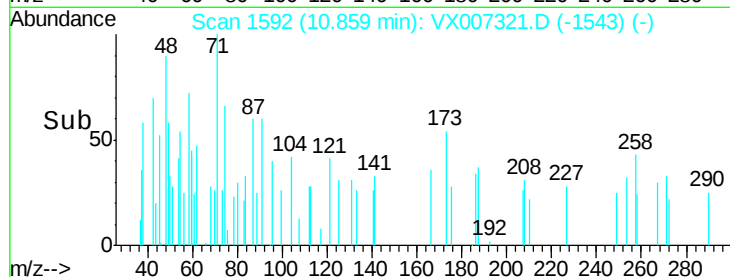
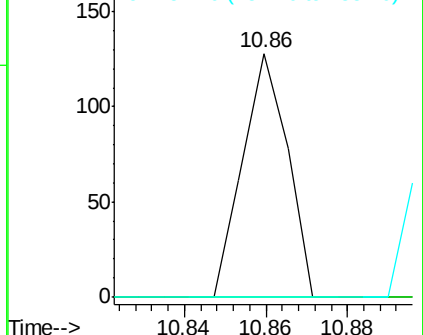
173 100

175 0.0 24.7 74.1#

254 0.0 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: VX007321.D

Acq: 30 Jan 2019 18:04

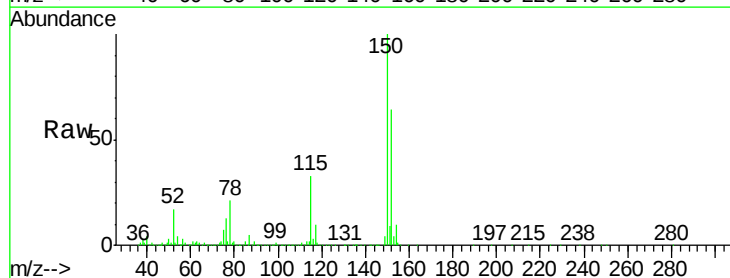
Tgt Ion:152 Resp: 383212

Ion Ratio Lower Upper

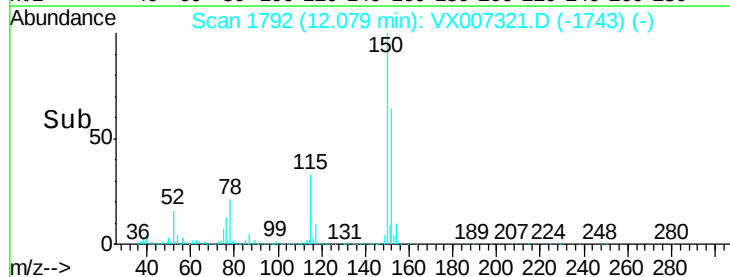
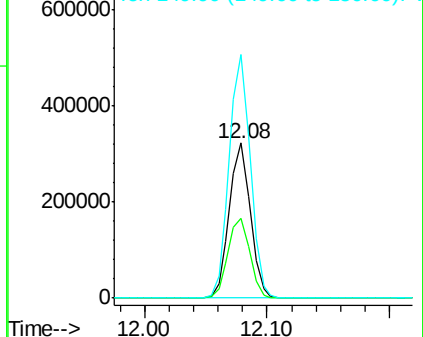
152 100

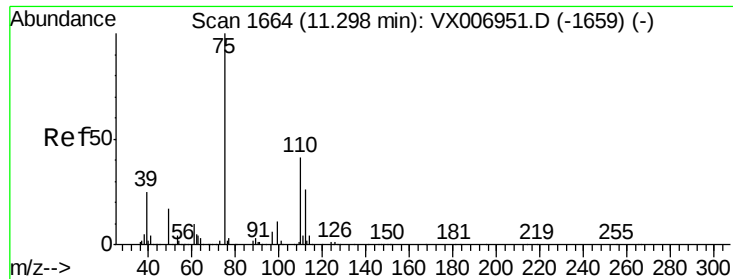
115 53.8 39.1 117.2

150 157.6 0.0 344.8



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: 22.151 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

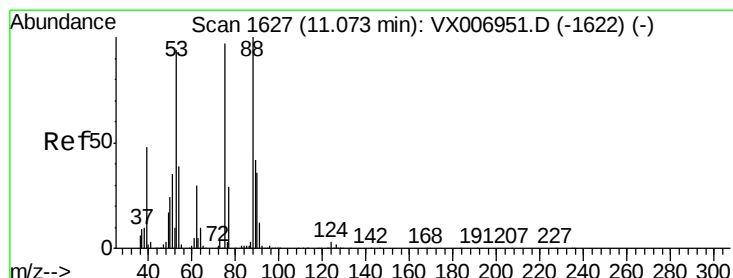
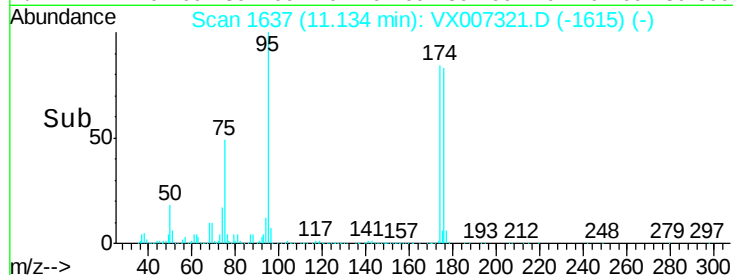
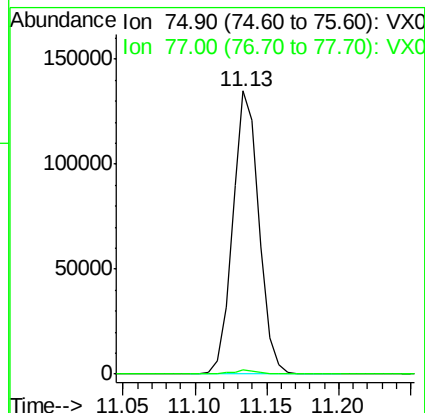
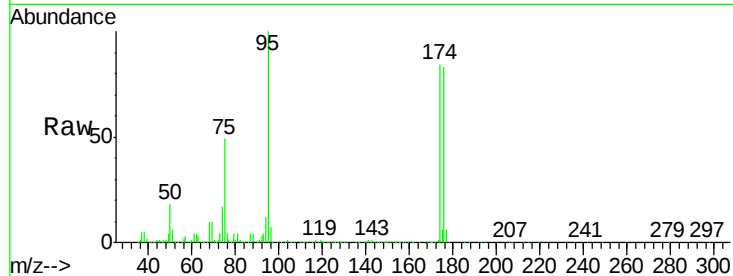
TP-7

Tot Ion: 75 Resp: 172017

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.574 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

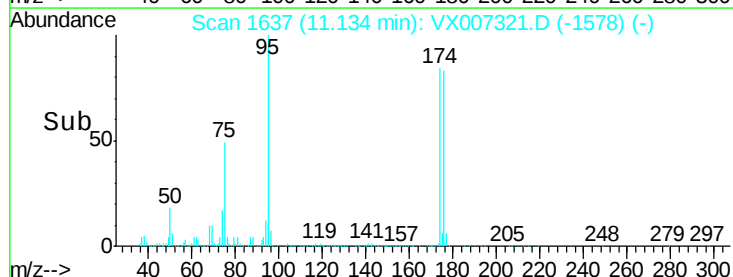
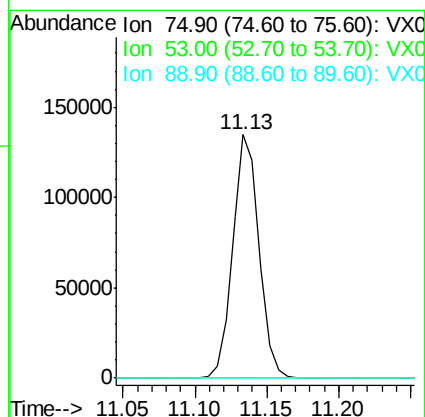
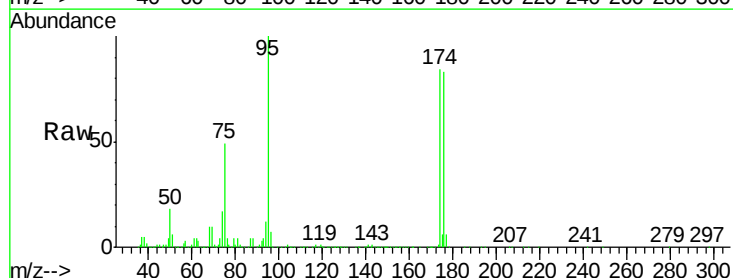
Tgt Ion: 75 Resp: 172017

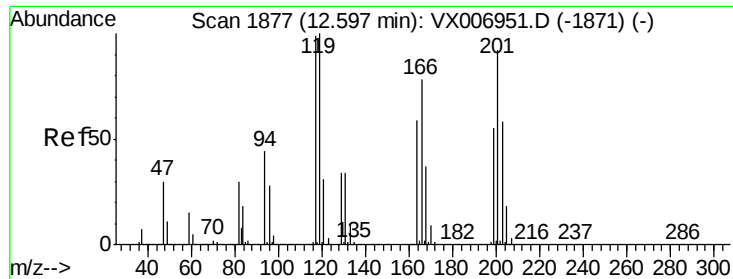
Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 2.939 ug/l

RT: 12.57 min Scan# 1873

Delta R.T. -0.02 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

Instrument :

MSVOA_X

ClientSampled :

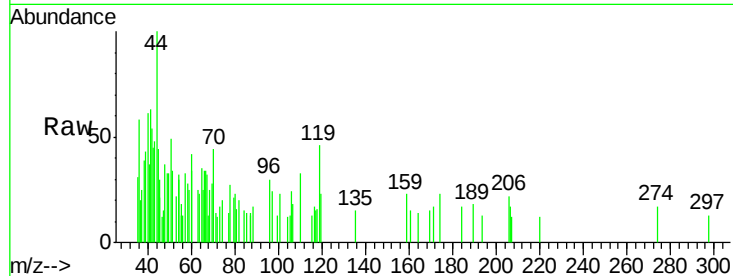
TP-7

Tot Ion:117 Resp: 124

Ion Ratio Lower Upper

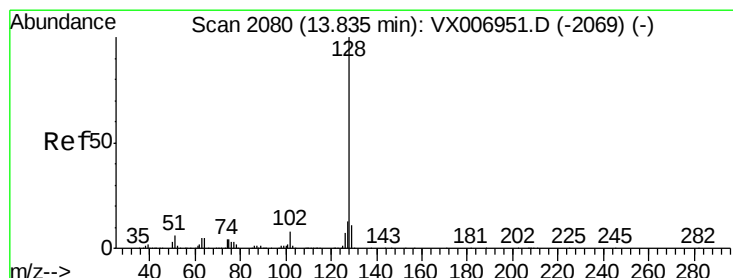
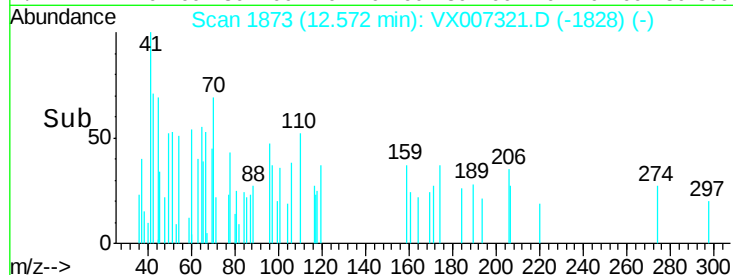
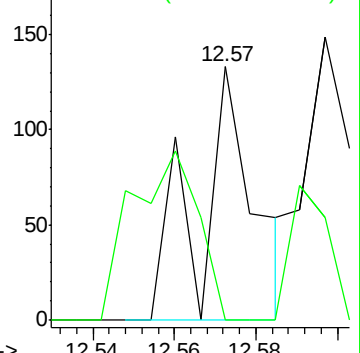
117 100

201 79.8 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.528 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007321.D

Acq: 30 Jan 2019 18:04

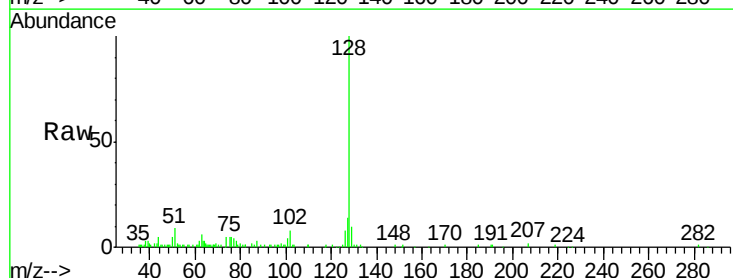
Tgt Ion:128 Resp: 14587

Ion Ratio Lower Upper

128 100

127 15.4 10.1 15.1#

129 11.3 8.6 13.0



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

