

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005439.D
 Acq On : 17 Sep 2018 17:36
 Operator : SY/AP
 Sample : J4929-01
 Misc : 6.21G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SP-PIT-6

Quant Time: Sep 18 01:04:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

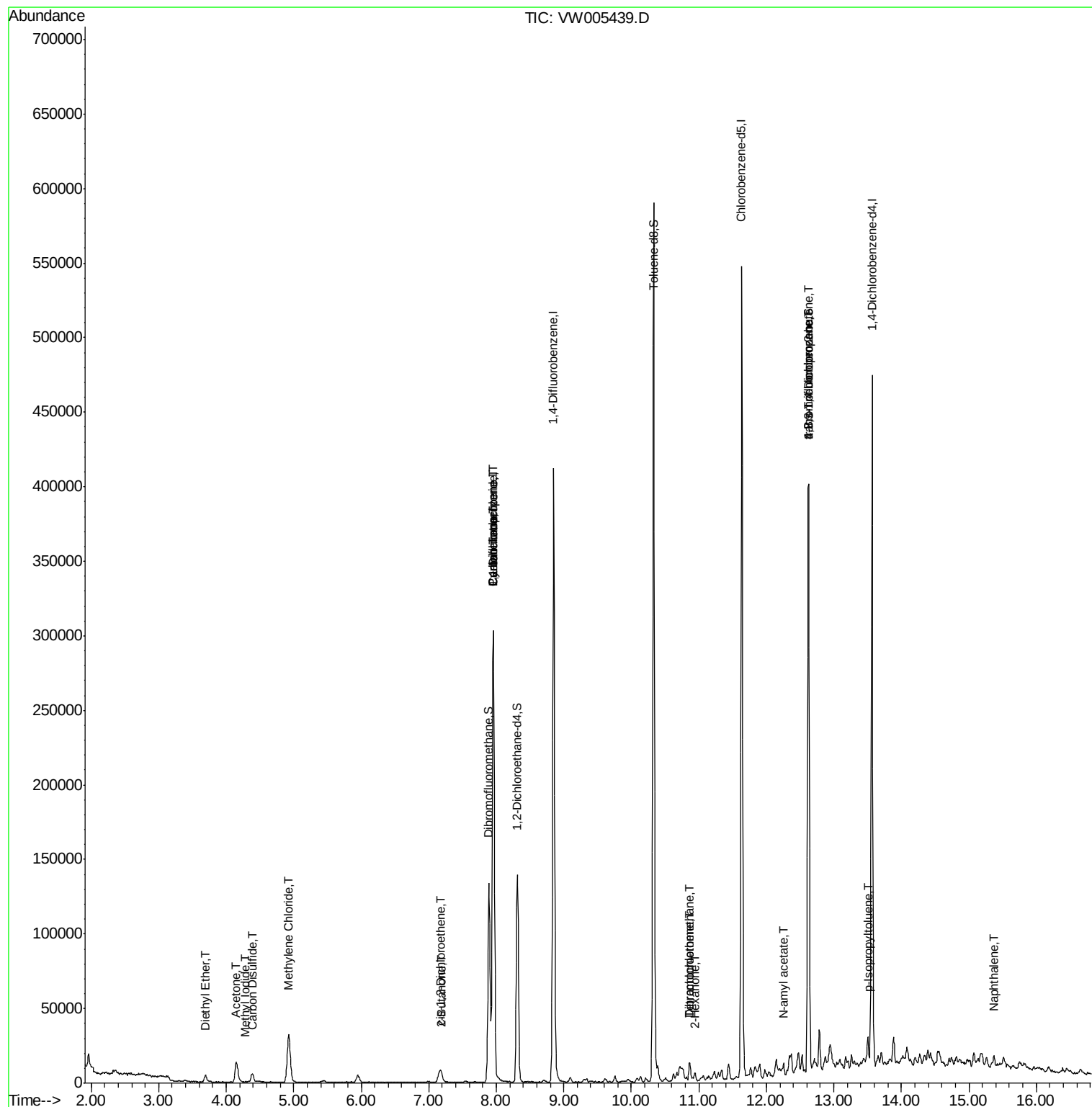
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	229735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	346402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	311076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	122024	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	111584	46.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.58%	
35) Dibromofluoromethane	7.89	113	92171	47.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.92%	
50) Toluene-d8	10.33	98	392803	44.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.32%	
62) 4-Bromofluorobenzene	12.63	95	127826	39.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	286	Below Cal		98
5) Bromomethane	2.78	94	240	Below Cal	#	4
8) Diethyl Ether	3.70	74	2228	2.228	ug/l	81
10) Methyl Iodide	4.28	142	42	4.067	ug/l #	38
11) Tert butyl alcohol	5.24	59	163	Below Cal	#	71
13) Acrolein	3.90	56	23	Below Cal	#	12
16) Acetone	4.15	43	26824	64.878	ug/l	98
17) Carbon Disulfide	4.39	76	11490	1.835	ug/l	99
20) Methylene Chloride	4.93	84	24511	5.219	ug/l	96
25) 2-Butanone	7.19	43	4993	8.704	ug/l #	86
27) cis-1,2-Dichloroethene	7.18	96	2472	1.071	ug/l	89
31) Cyclohexane	7.95	56	4857	1.276	ug/l #	1
36) 1,1-Dichloropropene	7.96	75	17583	5.363	ug/l #	51
38) Carbon Tetrachloride	7.96	117	22967	6.723	ug/l #	16
59) 2-Hexanone	10.94	43	2467	2.704	ug/l #	28
60) Dibromochloromethane	10.87	129	2363	1.184	ug/l #	11
64) Tetrachloroethene	10.87	164	2719	1.183	ug/l #	91
74) N-amyl acetate	12.26	43	2294	1.272	ug/l #	54
76) 1,2,3-Trichloropropane	12.62	75	66679	66.439	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	66679	172.346	ug/l #	8
86) p-Isopropyltoluene	13.51	119	11432	1.426	ug/l	97
95) Naphthalene	15.37	128	6555	1.643	ug/l #	94

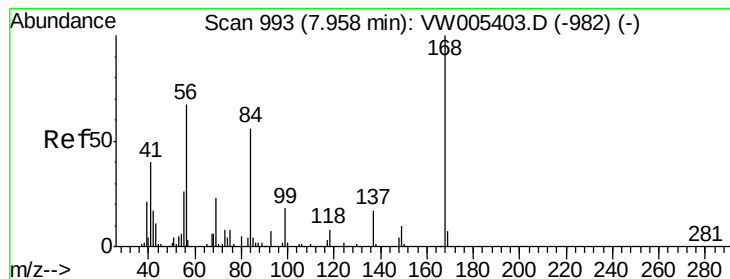
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 15 02:32:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampleId :

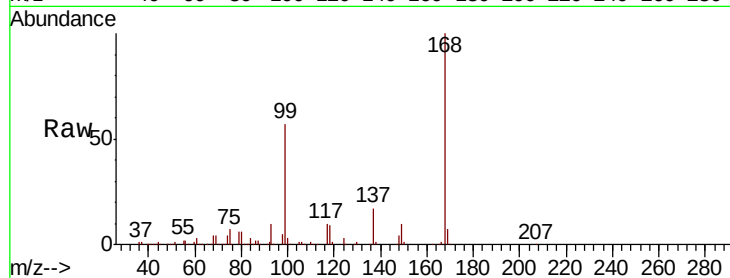
SP-PIT-6

Tgt Ion:168 Resp: 229735

Ion Ratio Lower Upper

168 100

99 57.3 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

100000

80000

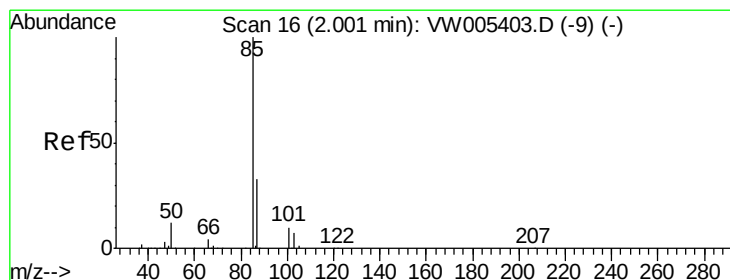
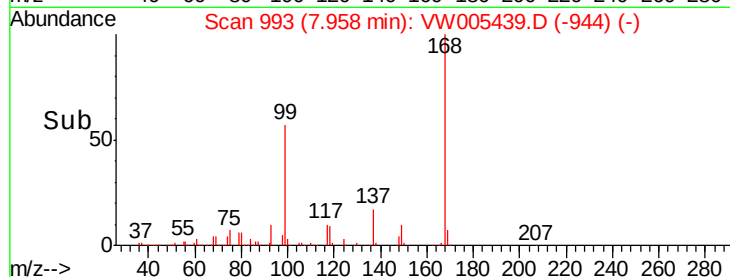
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10 8.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW005439.D

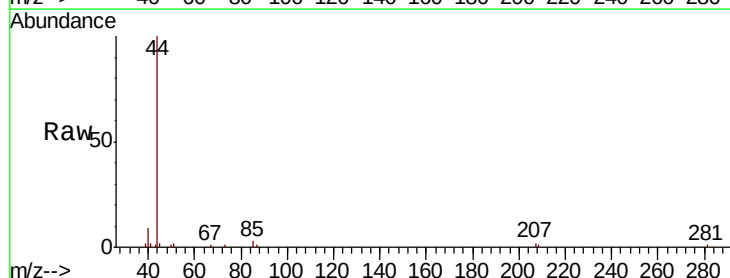
Acq: 17 Sep 2018 17:36

Tgt Ion: 85 Resp: 286

Ion Ratio Lower Upper

85 100

87 31.5 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

250

200

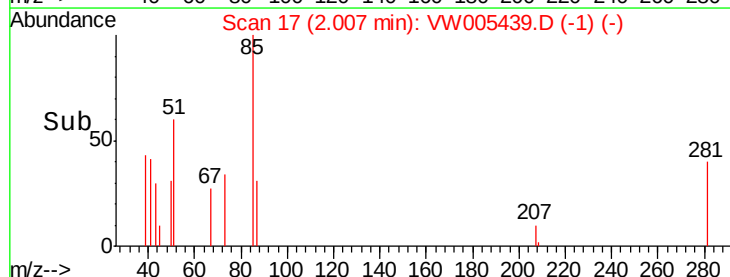
150

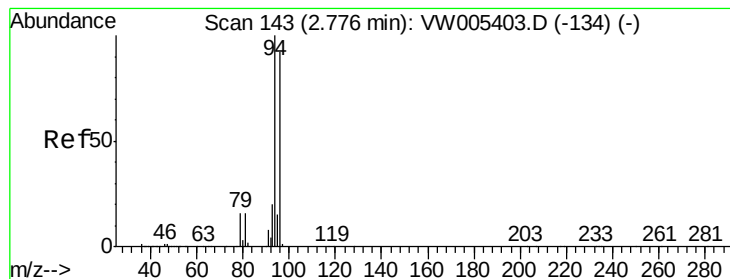
100

50

0

Time--> 1.96 1.98 2.00 2.02 2.04





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampleId :

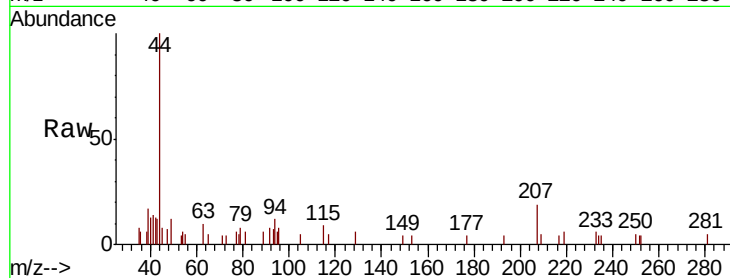
SP-PIT-6

Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

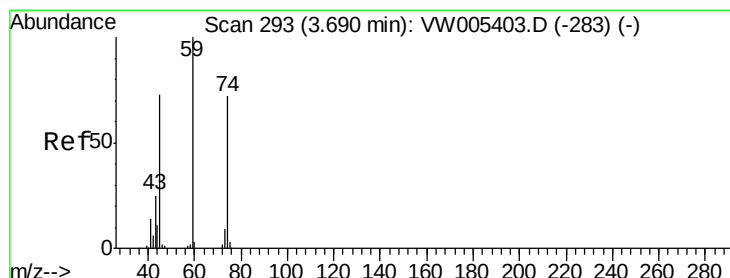
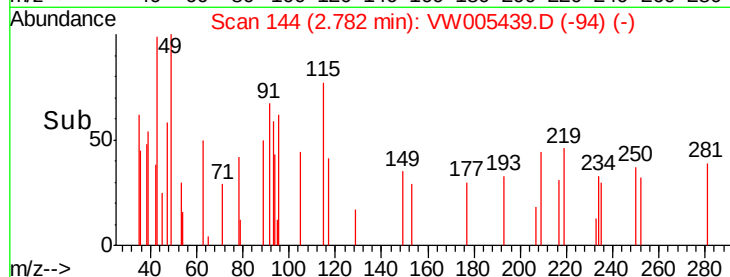
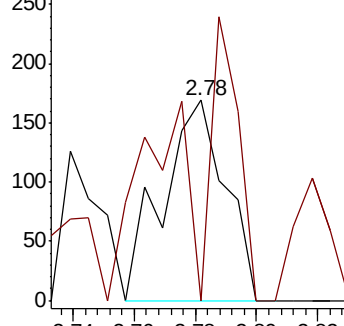
94 100

96 0.0 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 2.228 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW005439.D

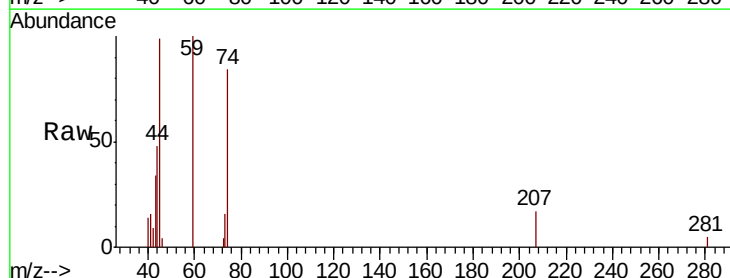
Acq: 17 Sep 2018 17:36

Tgt Ion: 74 Resp: 2228

Ion Ratio Lower Upper

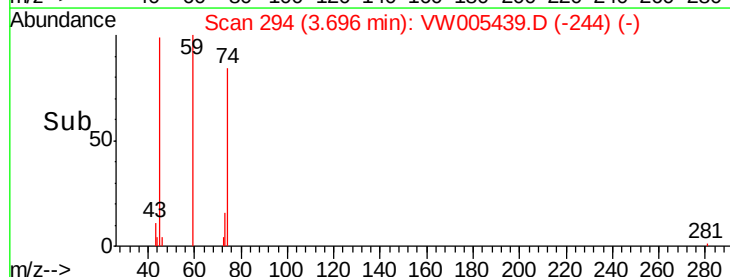
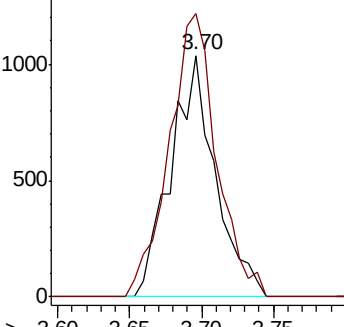
74 100

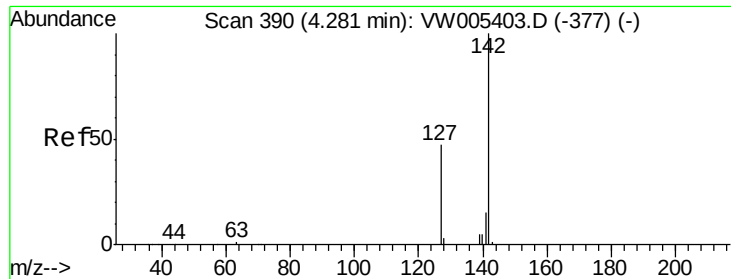
45 125.4 53.1 159.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

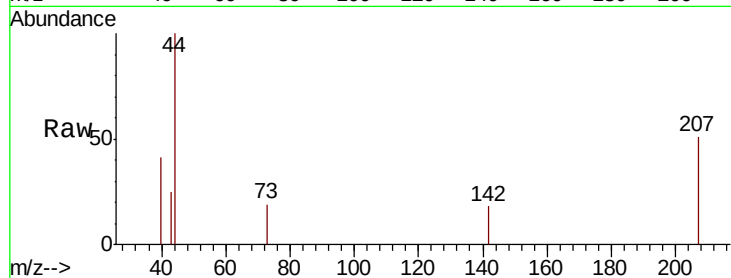




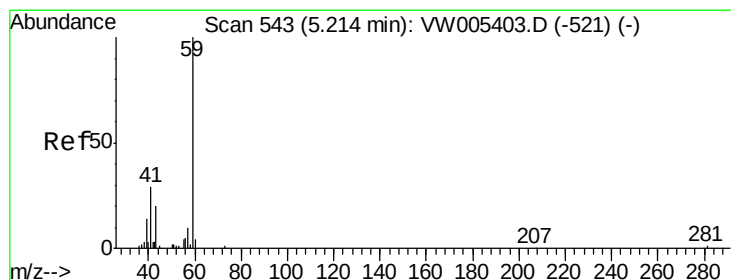
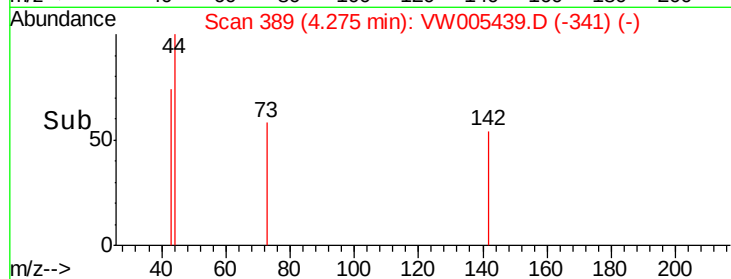
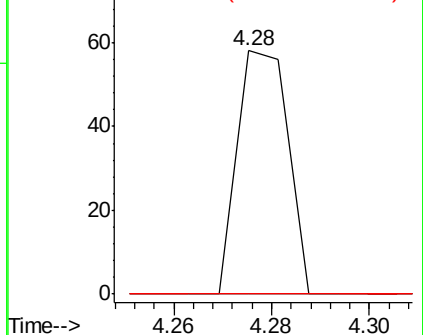
#10
Methyl Iodide
Concen: 4.067 ug/l
RT: 4.28 min Scan# 389
Delta R.T. -0.01 min
Lab File: VW005439.D
Acq: 17 Sep 2018 17:36

Instrument :
MSVOA_W
ClientSampleId :
SP-PIT-6

Tgt Ion: 142 Resp: 42
Ion Ratio Lower Upper
142 100
127 0.0 37.5 56.3#
141 0.0 12.4 18.6#

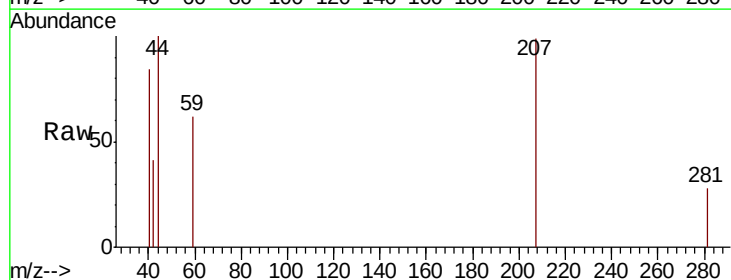


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

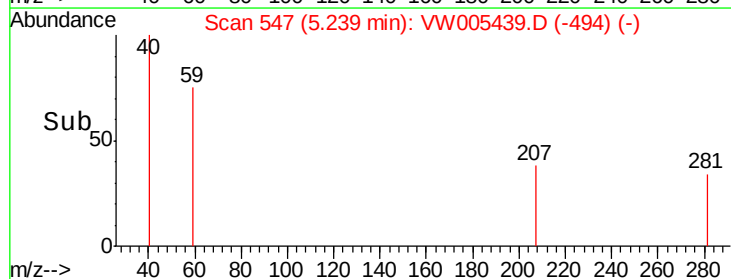
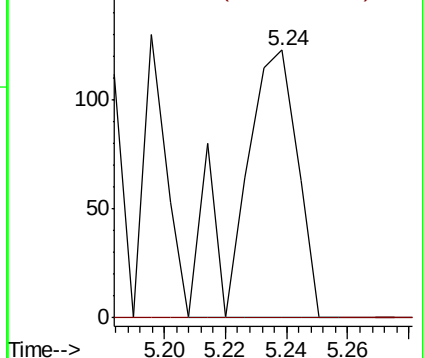


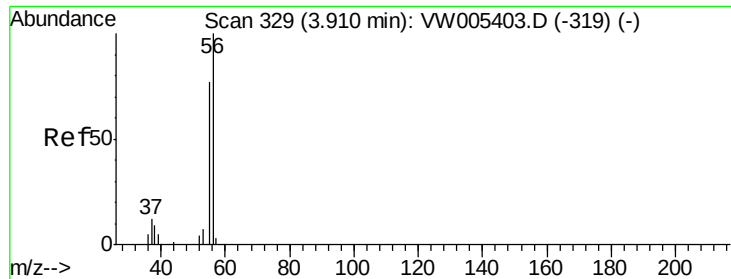
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.24 min Scan# 547
Delta R.T. 0.02 min
Lab File: VW005439.D
Acq: 17 Sep 2018 17:36

Tgt Ion: 59 Resp: 163
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.90 min Scan# 328

Delta R.T. -0.01 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampleId :

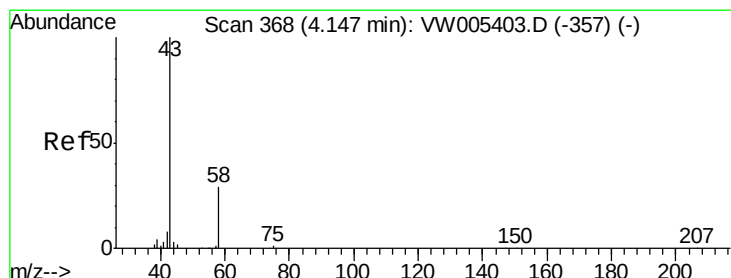
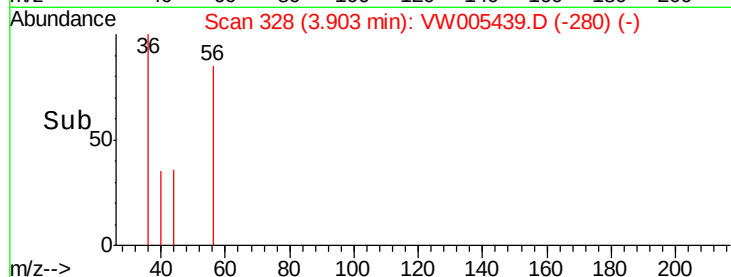
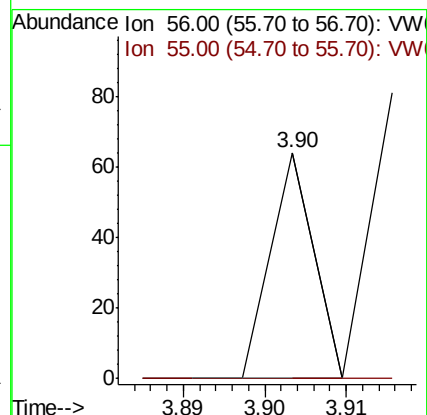
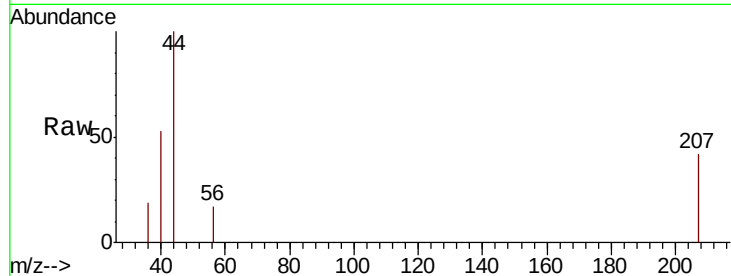
SP-PIT-6

Tgt Ion: 56 Resp: 23

Ion Ratio Lower Upper

56 100

55 0.0 59.8 89.8#



#16

Acetone

Concen: 64.878 ug/l

RT: 4.15 min Scan# 369

Delta R.T. 0.01 min

Lab File: VW005439.D

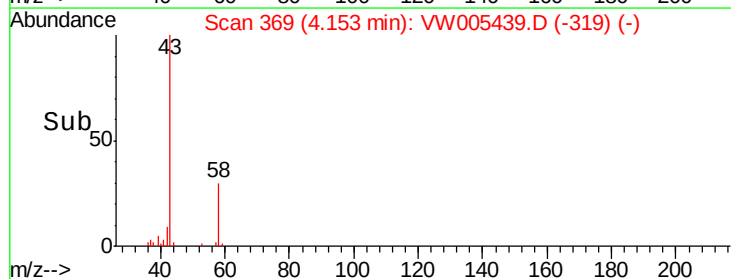
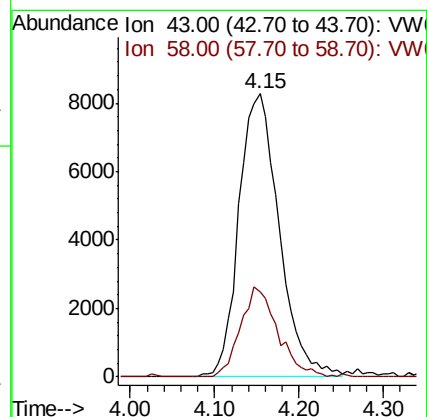
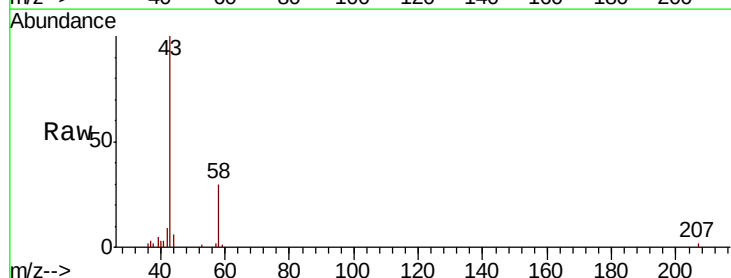
Acq: 17 Sep 2018 17:36

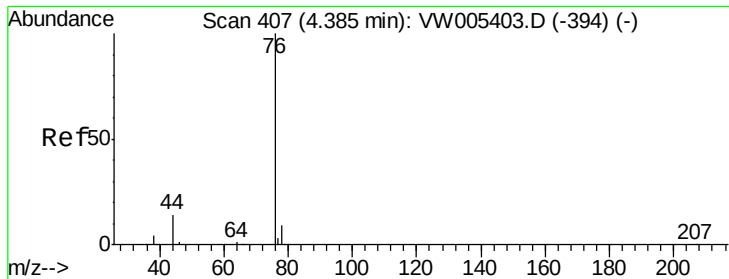
Tgt Ion: 43 Resp: 26824

Ion Ratio Lower Upper

43 100

58 29.8 22.8 34.2





#17

Carbon Disulfide

Concen: 1.835 ug/l

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampleId :

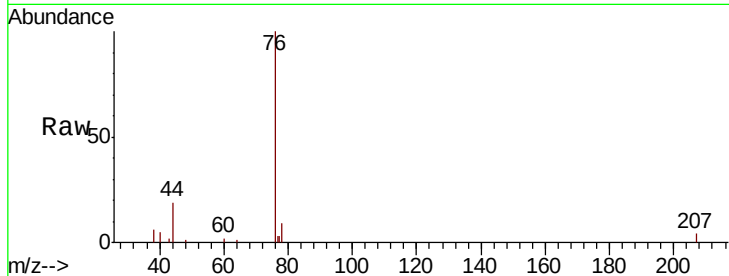
SP-PIT-6

Tgt Ion: 76 Resp: 11490

Ion Ratio Lower Upper

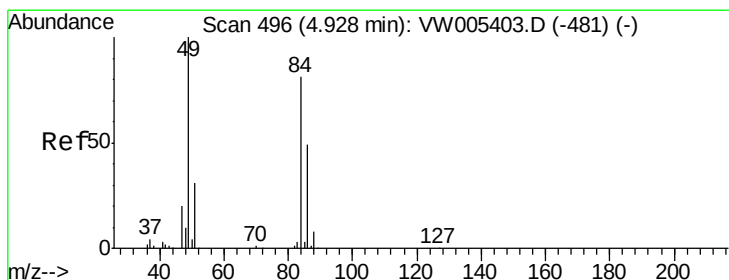
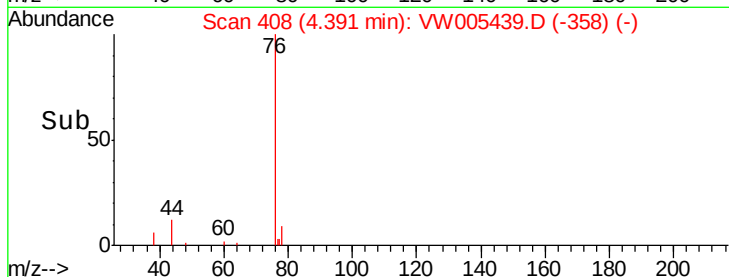
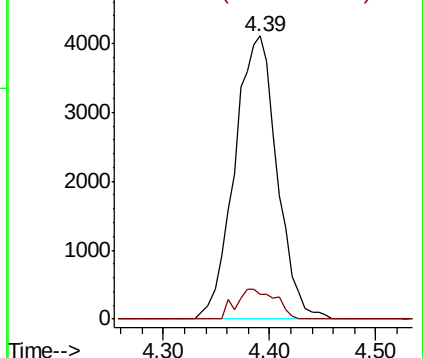
76 100

78 8.8 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 5.219 ug/l

RT: 4.93 min Scan# 497

Delta R.T. 0.01 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Tgt Ion: 84 Resp: 24511

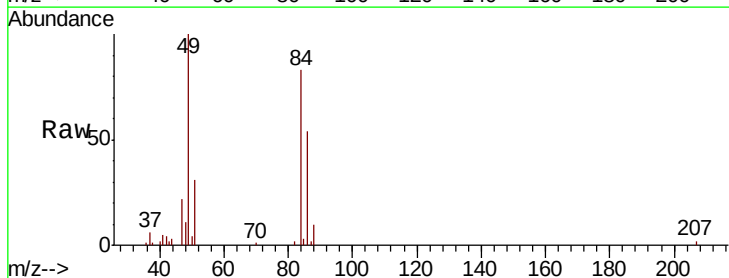
Ion Ratio Lower Upper

84 100

49 120.3 99.3 148.9

51 37.0 31.1 46.7

86 64.9 49.1 73.7

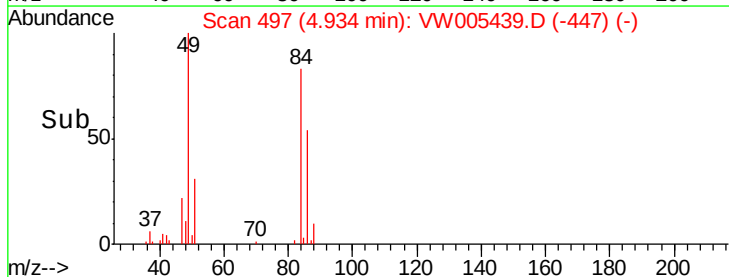
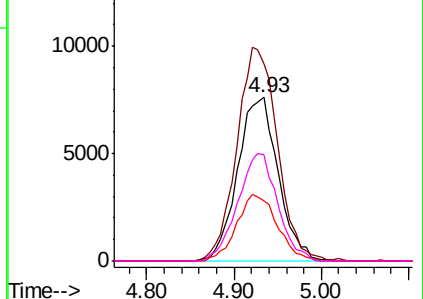


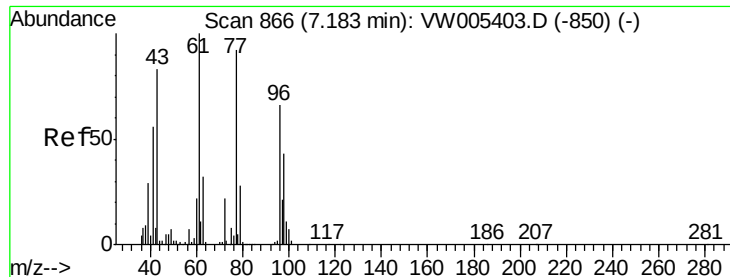
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

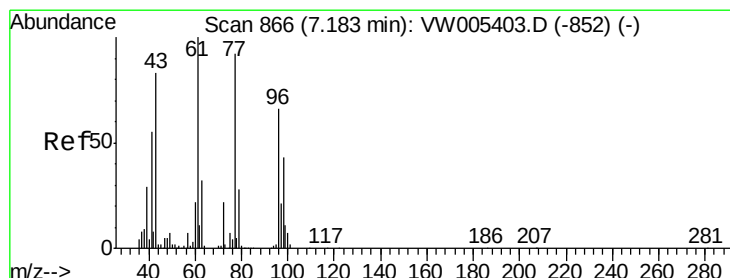
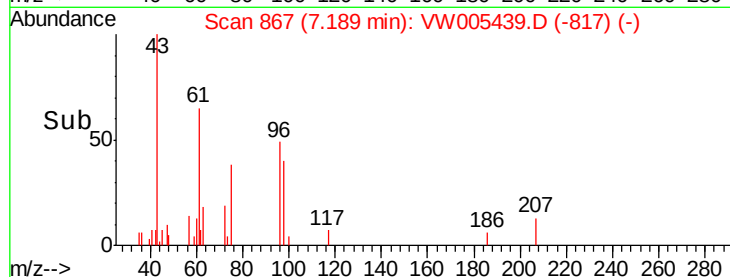
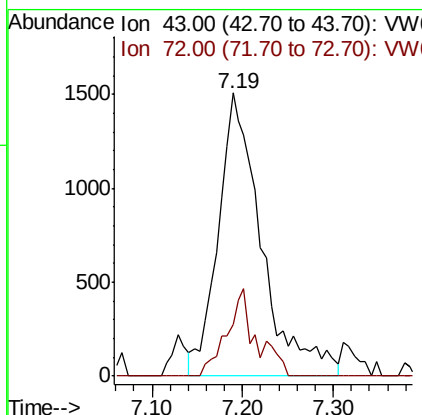
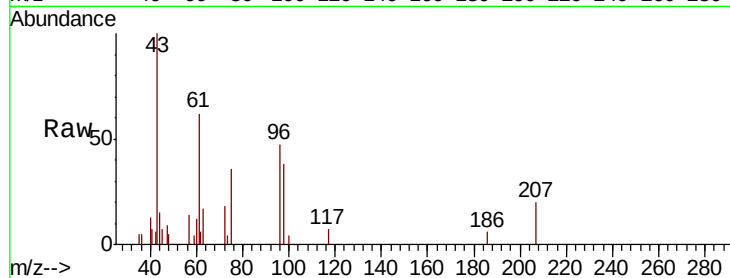




#25
 2-Butanone
 Concen: 8.704 ug/l
 RT: 7.19 min Scan# 867
 Delta R.T. 0.01 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

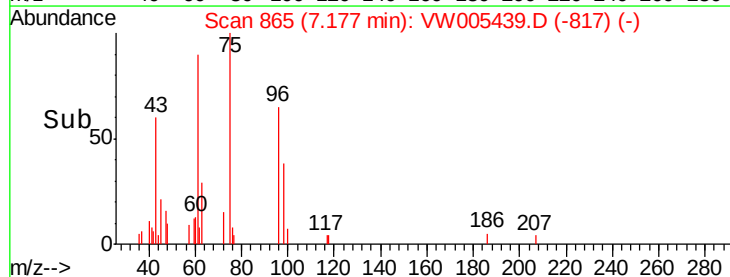
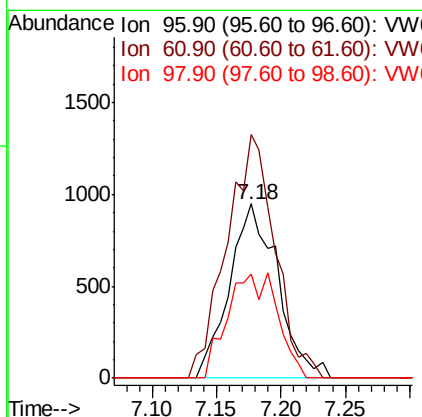
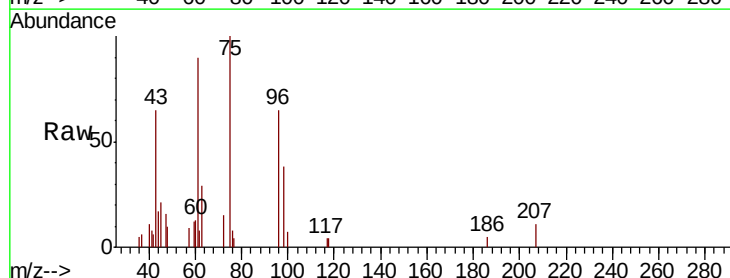
Instrument :
 MSVOA_W
 ClientSampleId :
 SP-PIT-6

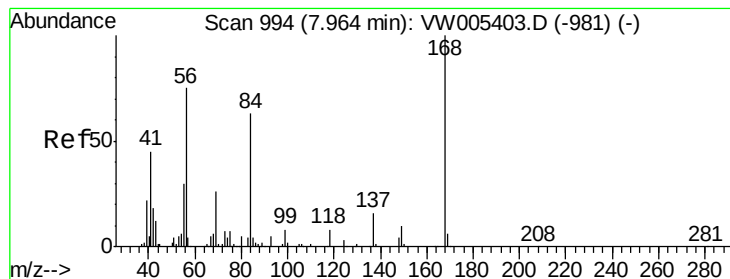
Tgt Ion: 43 Resp: 4993
 Ion Ratio Lower Upper
 43 100
 72 19.2 21.1 31.7#



#27
 cis-1,2-Dichloroethene
 Concen: 1.071 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Tgt Ion: 96 Resp: 2472
 Ion Ratio Lower Upper
 96 100
 61 139.9 0.0 316.0
 98 62.4 0.0 130.8





#31

Cyclohexane

Concen: 1.276 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampled :

SP-PIT-6

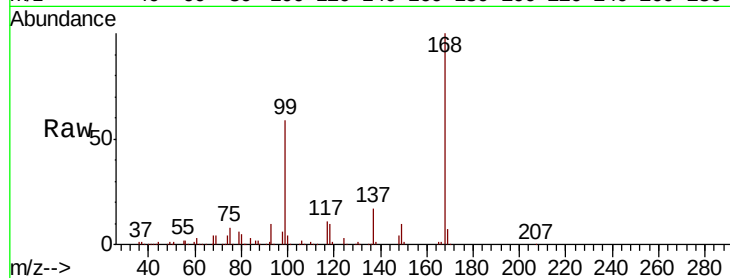
Tgt Ion: 56 Resp: 4857

Ion Ratio Lower Upper

56 100

69 198.3 27.2 40.8#

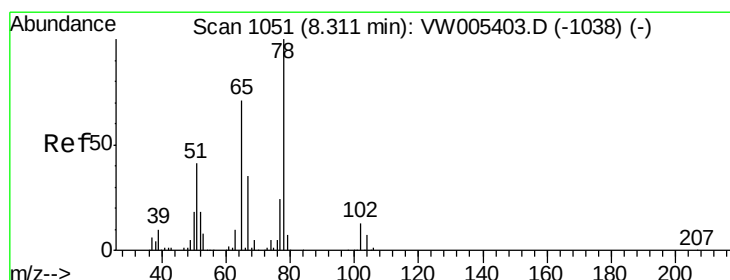
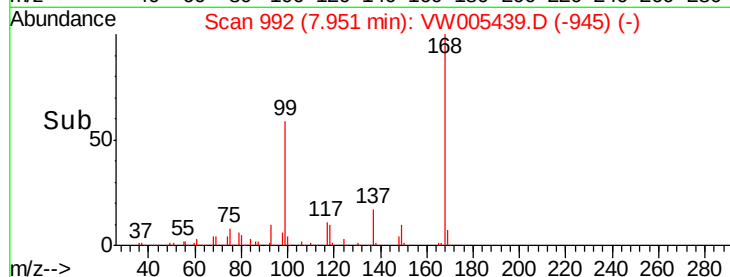
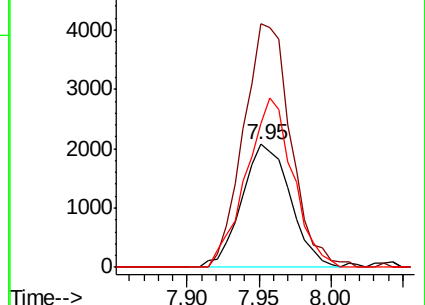
84 117.2 66.7 100.1#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 46.792 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005439.D

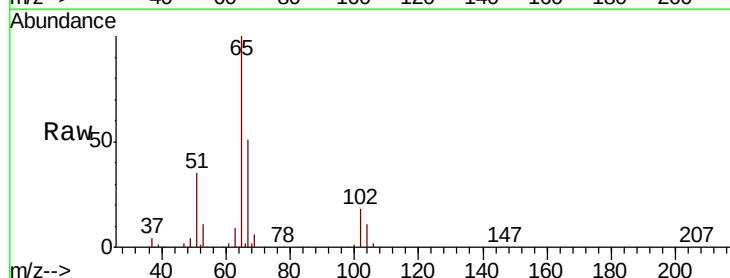
Acq: 17 Sep 2018 17:36

Tgt Ion: 65 Resp: 111584

Ion Ratio Lower Upper

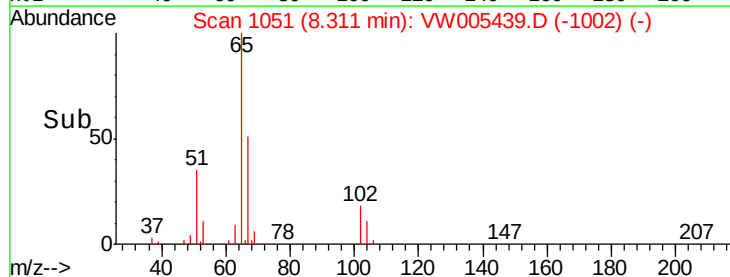
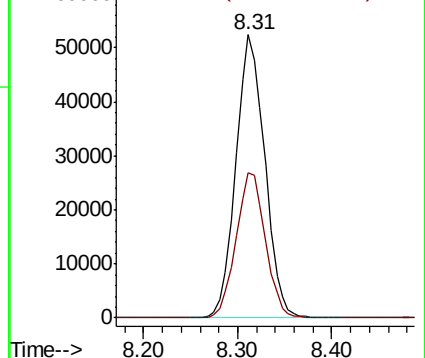
65 100

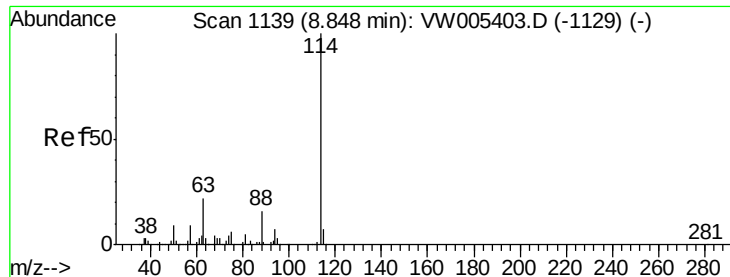
67 52.1 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

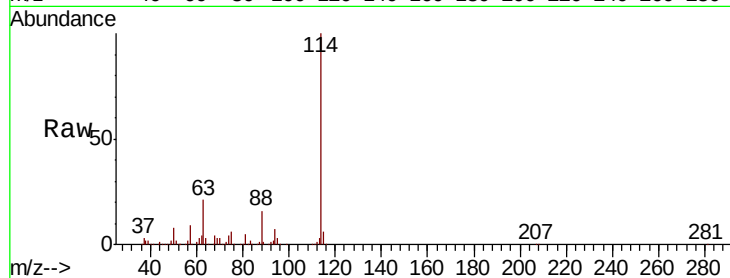




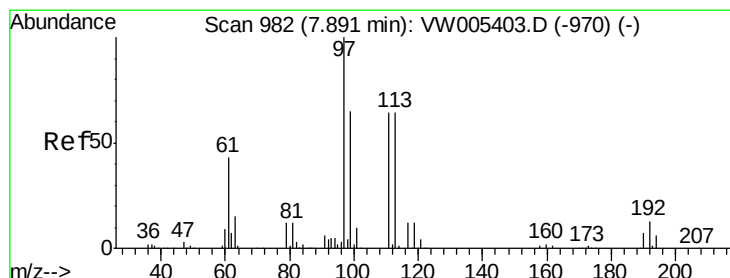
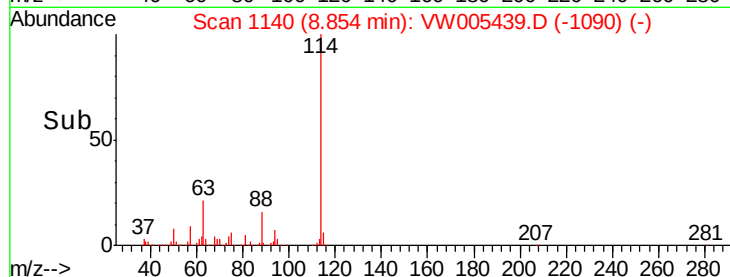
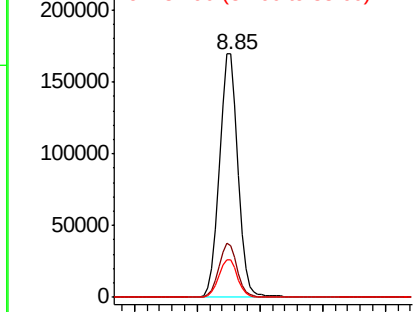
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Instrument :
 MSVOA_W
 ClientSampleId :
 SP-PIT-6

Tgt Ion:114 Resp: 346402
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 43.4
 88 15.5 0.0 31.8

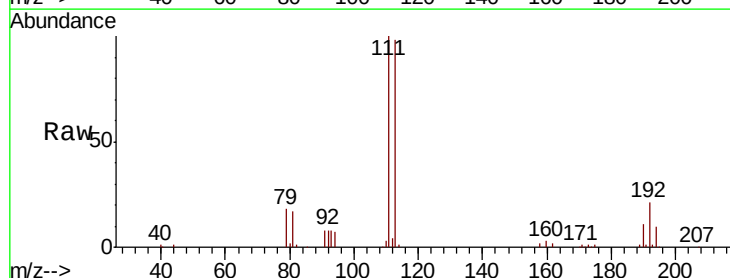


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

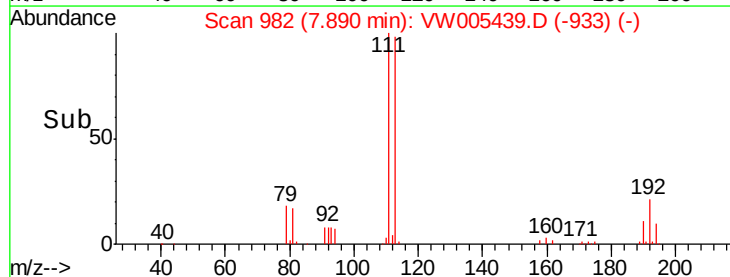
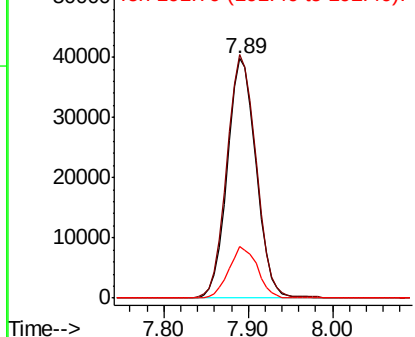


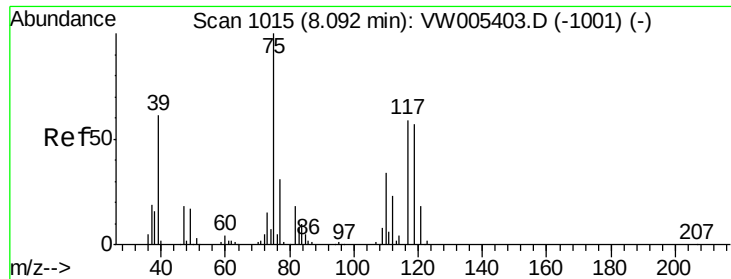
#35
 Dibromofluoromethane
 Concen: 47.456 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Tgt Ion:113 Resp: 92171
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.3 123.5
 192 21.4 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

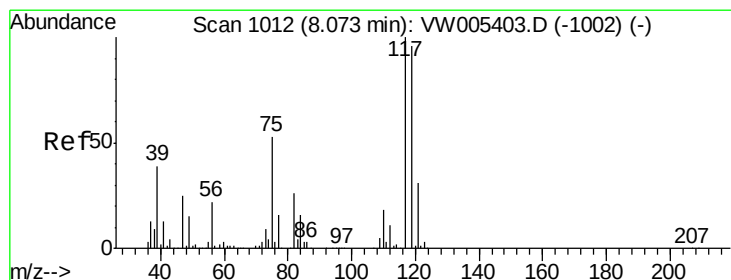
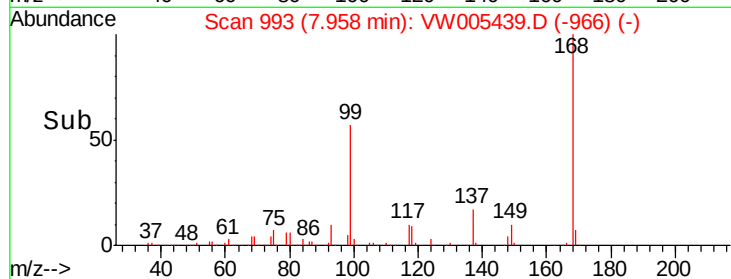
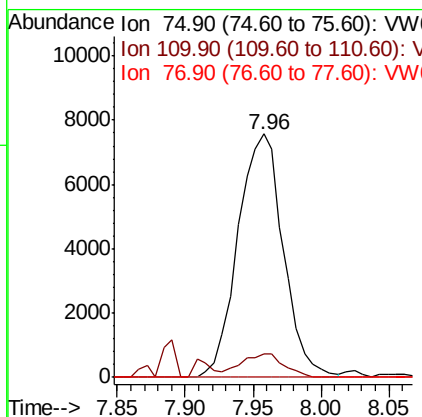
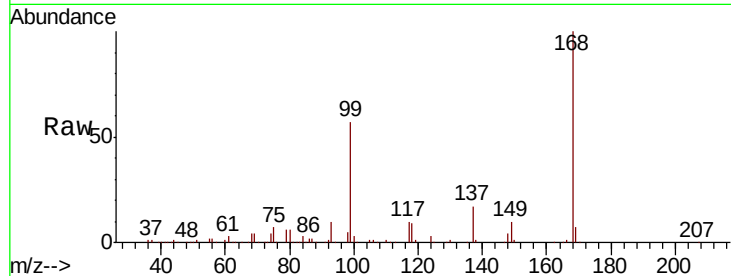




#36
 1,1-Dichloropropene
 Concen: 5.363 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

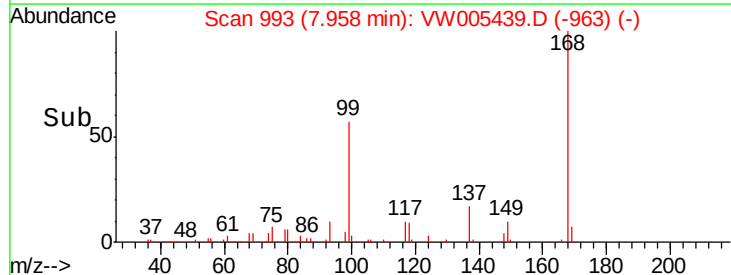
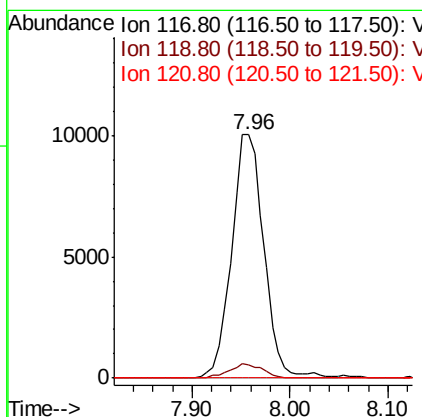
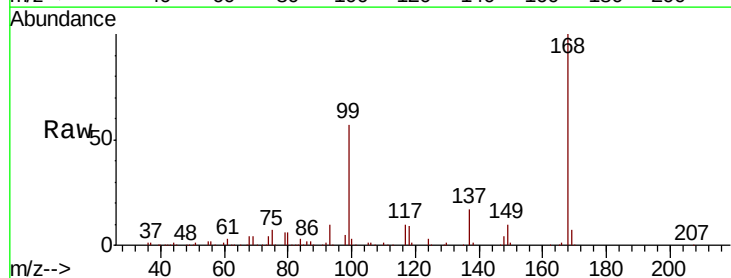
Instrument :
 MSVOA_W
 ClientSampleId :
 SP-PIT-6

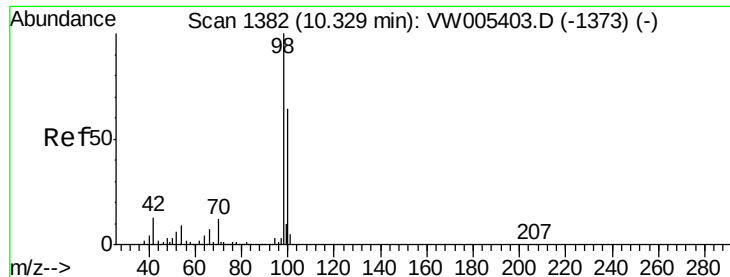
Tgt Ion: 75 Resp: 17583
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.8 50.4#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.723 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.12 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Tgt Ion: 117 Resp: 22967
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.8 115.2#
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 44.162 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampleId :

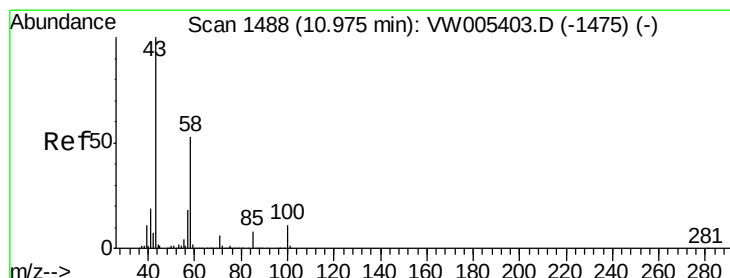
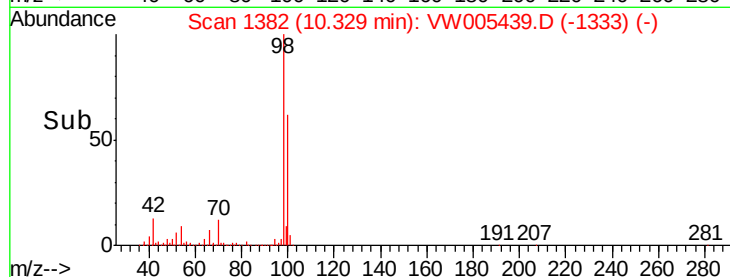
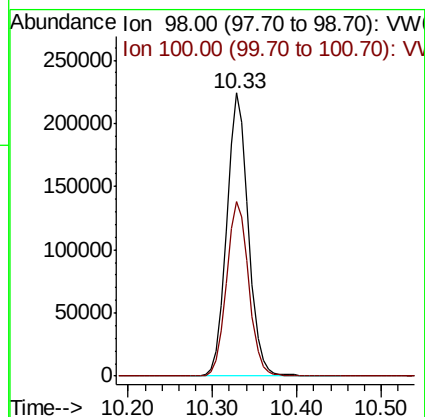
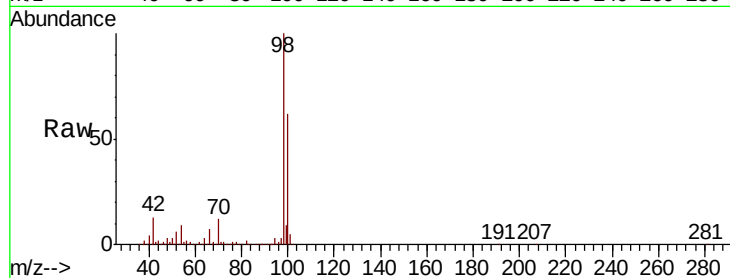
SP-PIT-6

Tgt Ion: 98 Resp: 392803

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0



#59

2-Hexanone

Concen: 2.704 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.04 min

Lab File: VW005439.D

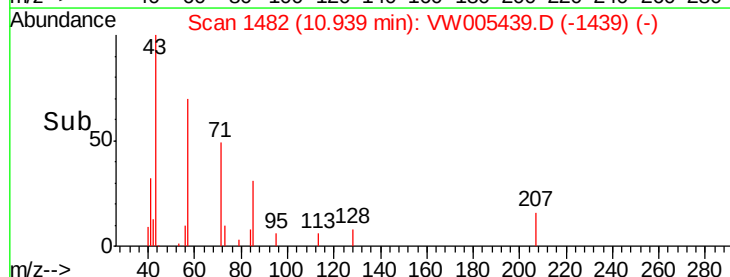
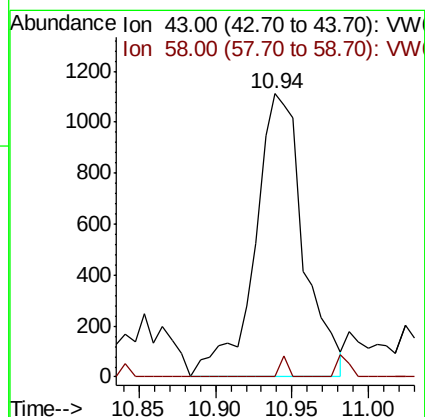
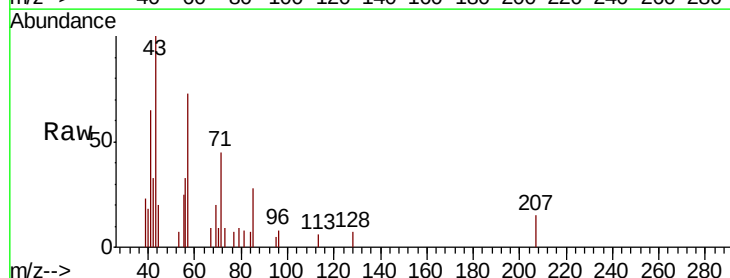
Acq: 17 Sep 2018 17:36

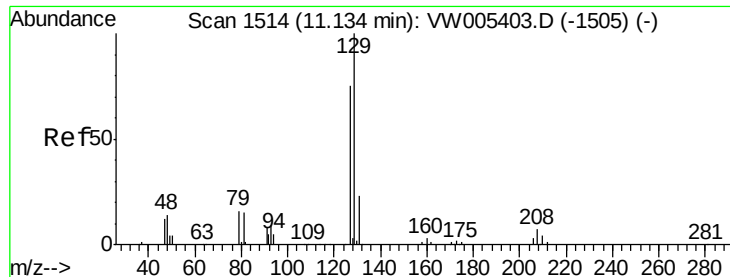
Tgt Ion: 43 Resp: 2467

Ion Ratio Lower Upper

43 100

58 1.2 25.5 76.5#





#60

Dibromochloromethane

Concen: 1.184 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. -0.27 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampleId :

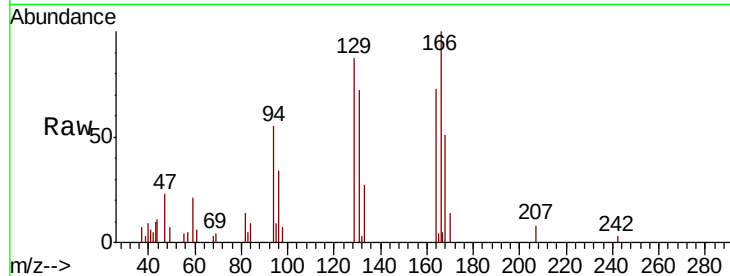
SP-PIT-6

Tgt Ion:129 Resp: 2363

Ion Ratio Lower Upper

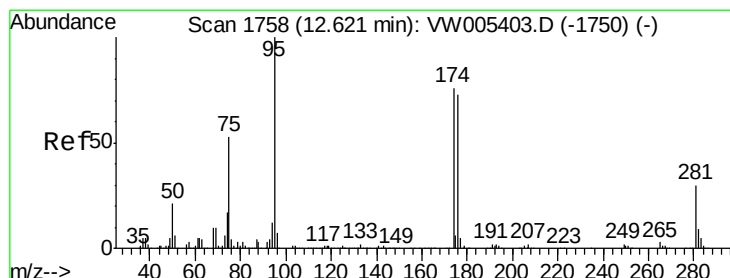
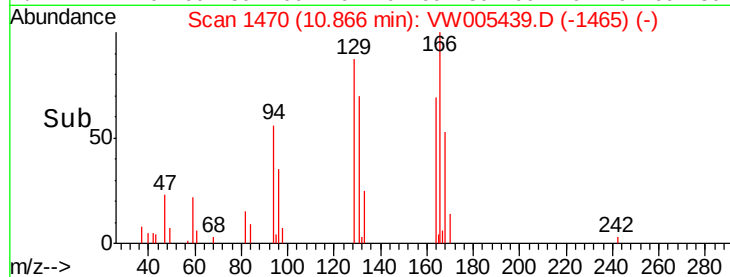
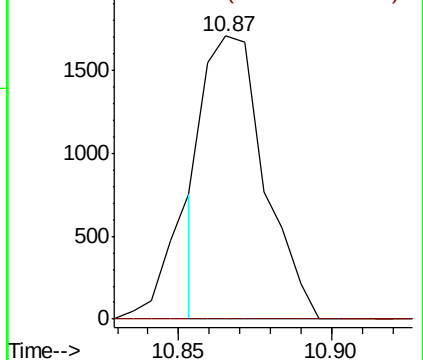
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 39.194 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.01 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

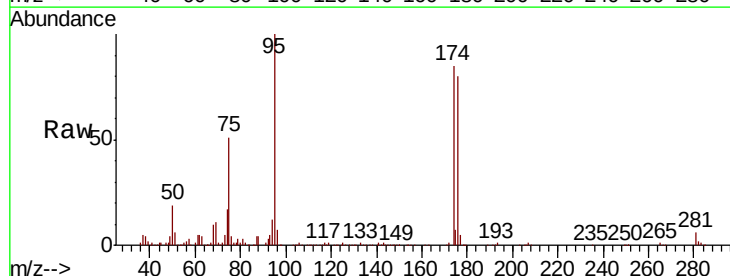
Tgt Ion: 95 Resp: 127826

Ion Ratio Lower Upper

95 100

174 80.7 0.0 161.2

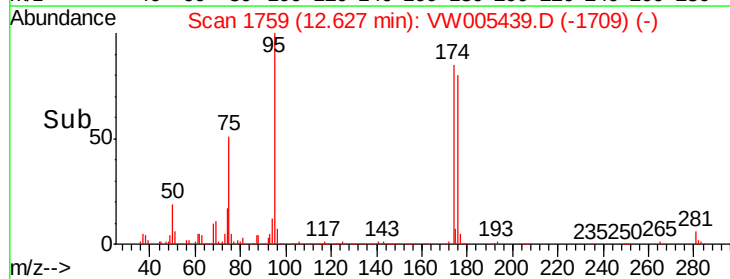
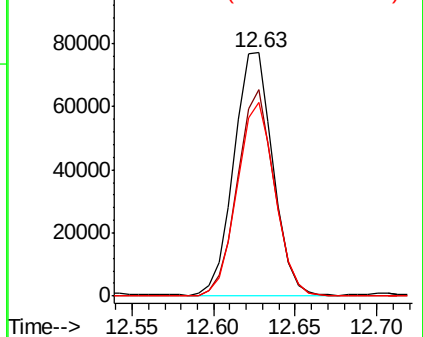
176 77.9 0.0 156.6

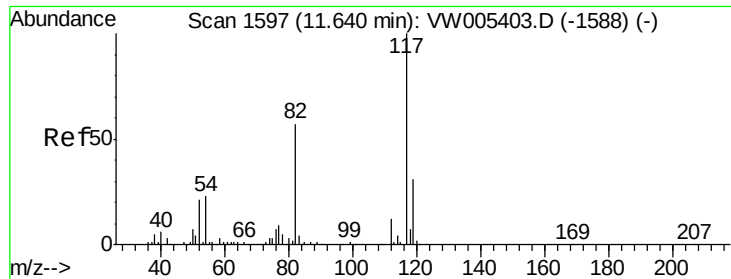


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

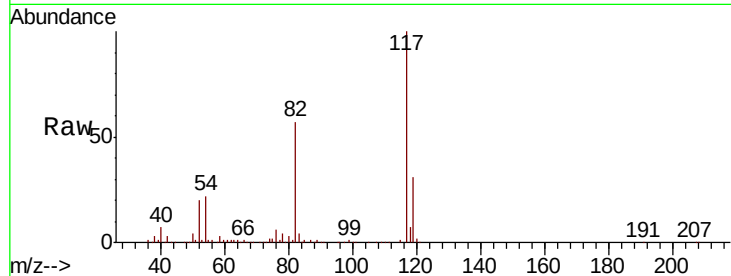




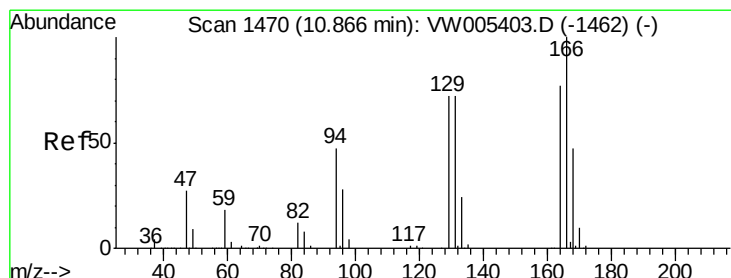
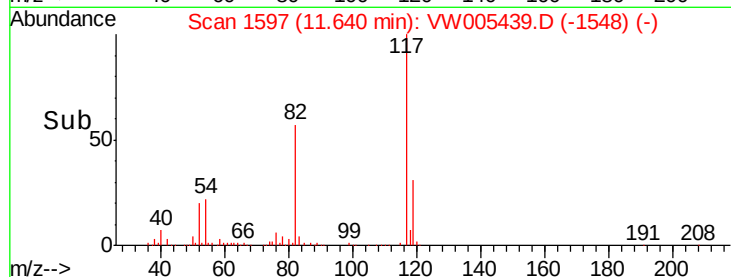
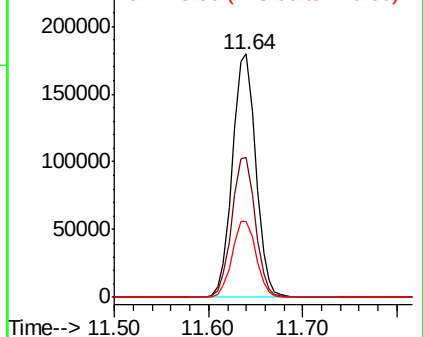
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005439.D
Acq: 17 Sep 2018 17:36

Instrument :
MSVOA_W
ClientSampleId :
SP-PIT-6

Tgt Ion:117 Resp: 311076
Ion Ratio Lower Upper
117 100
82 57.1 45.9 68.9
119 31.2 24.8 37.2

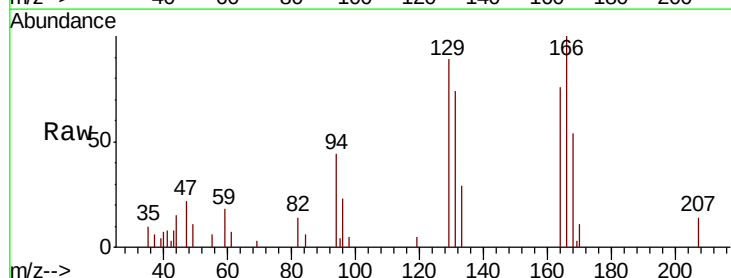


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

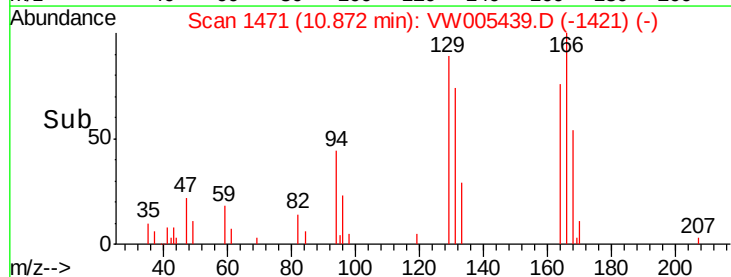
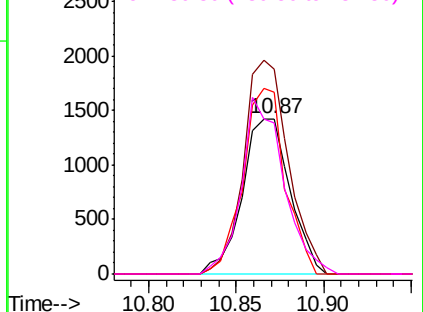


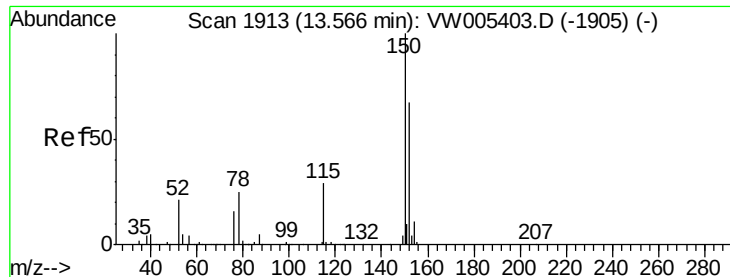
#64
Tetrachloroethene
Concen: 1.183 ug/l
RT: 10.87 min Scan# 1471
Delta R.T. 0.01 min
Lab File: VW005439.D
Acq: 17 Sep 2018 17:36

Tgt Ion:164 Resp: 2719
Ion Ratio Lower Upper
164 100
166 131.6 104.0 156.0
129 117.0 74.9 112.3#
131 97.1 75.3 112.9



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Instrument :

MSVOA_W

ClientSampled :

SP-PIT-6

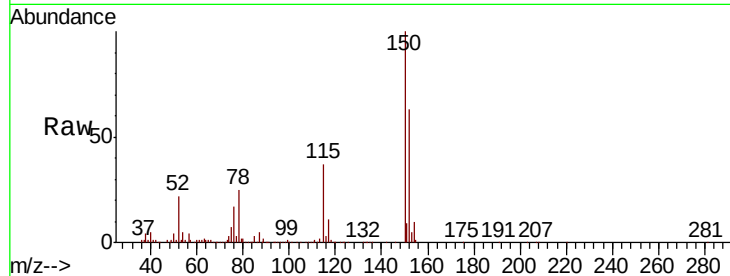
Tgt Ion:152 Resp: 122024

Ion Ratio Lower Upper

152 100

115 59.6 29.5 88.5

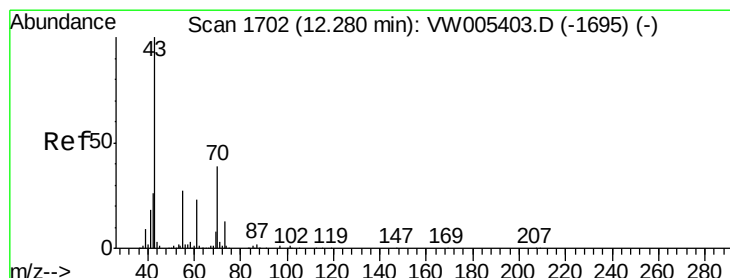
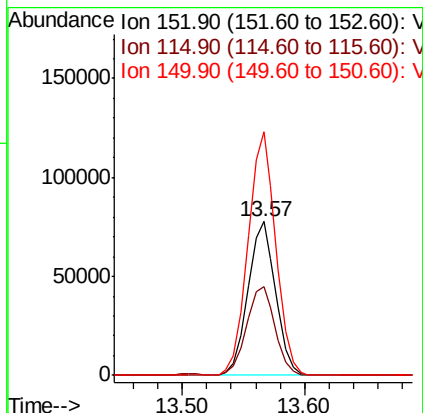
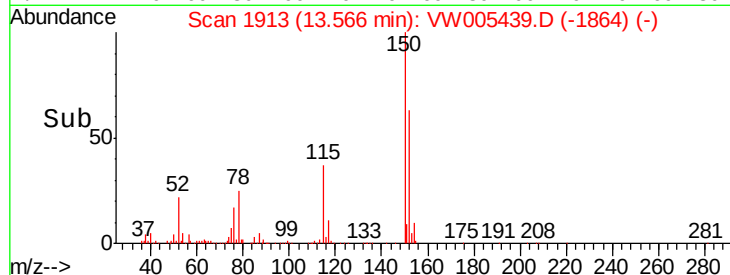
150 158.1 0.0 345.6



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-amyl acetate

Concen: 1.272 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW005439.D

Acq: 17 Sep 2018 17:36

Tgt Ion: 43 Resp: 2294

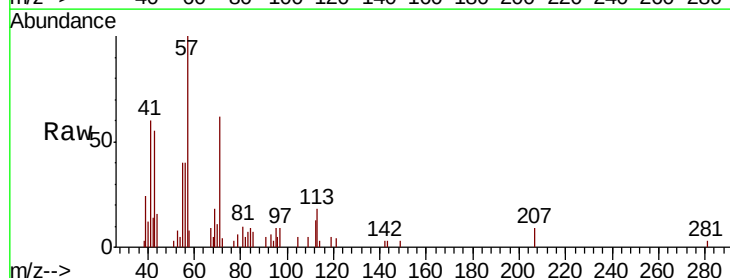
Ion Ratio Lower Upper

43 100

70 15.0 31.9 47.9#

55 0.0 21.4 32.0#

61 0.0 18.3 27.5#

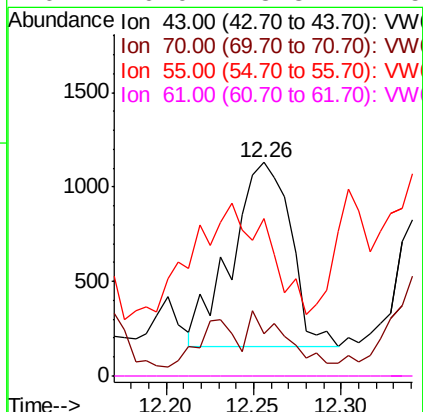
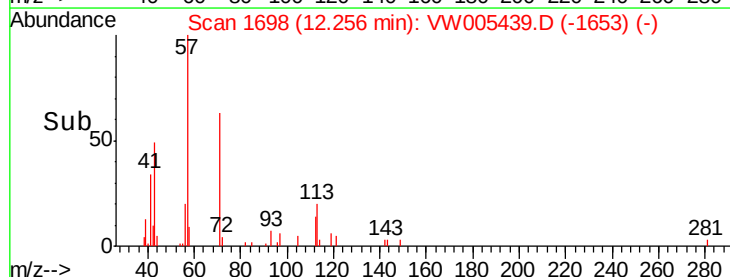


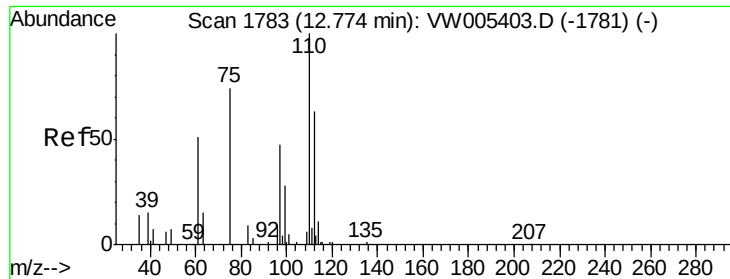
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

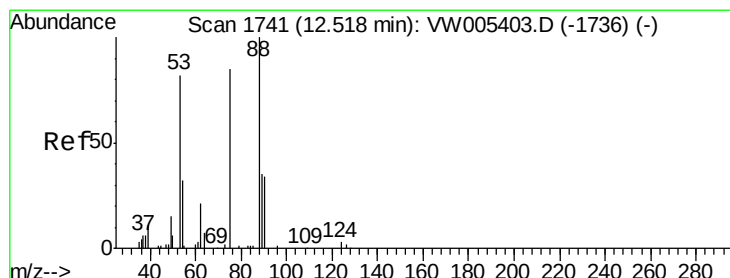
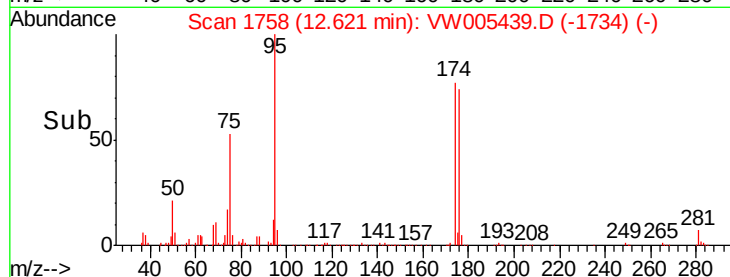
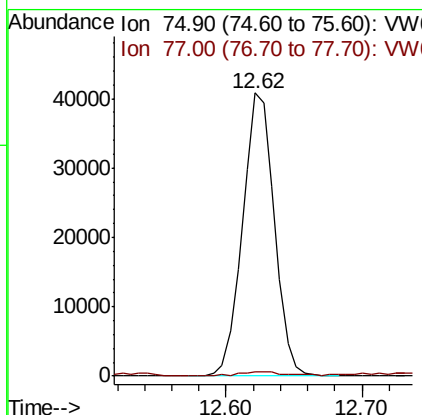
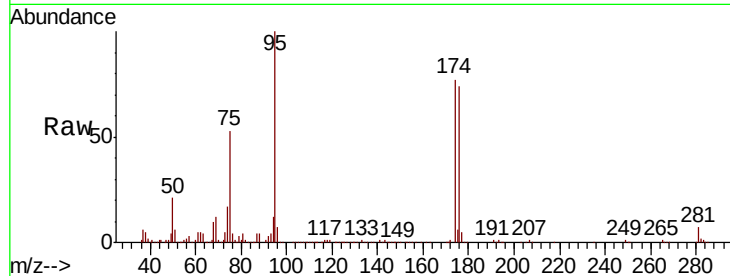




#76
 1,2,3-Trichloropropane
 Concen: 66.439 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

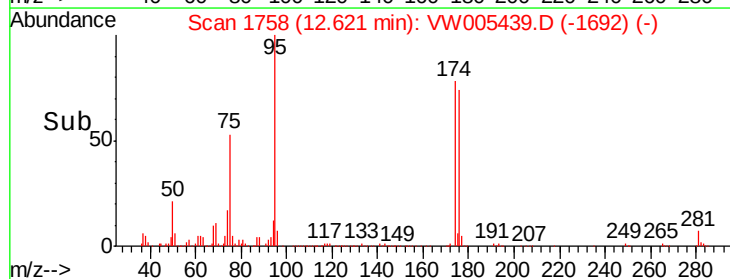
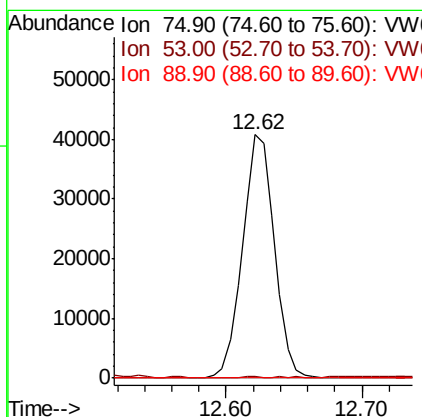
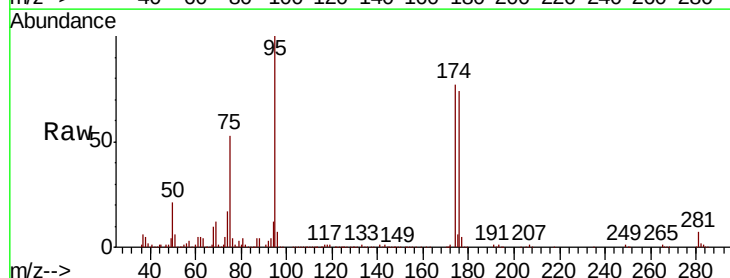
Instrument :
 MSVOA_W
 ClientSampleId :
 SP-PIT-6

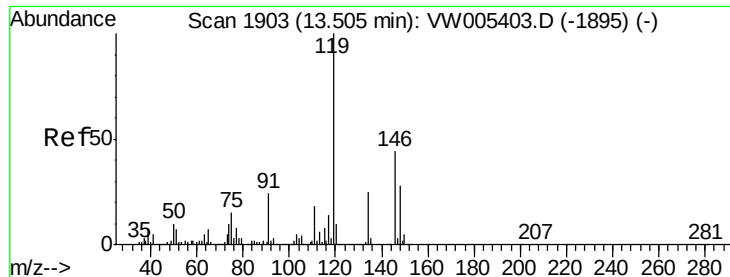
Tgt Ion: 75 Resp: 66679
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 172.346 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Tgt Ion: 75 Resp: 66679
 Ion Ratio Lower Upper
 75 100
 53 0.2 83.2 124.8#
 89 0.0 36.6 54.8#

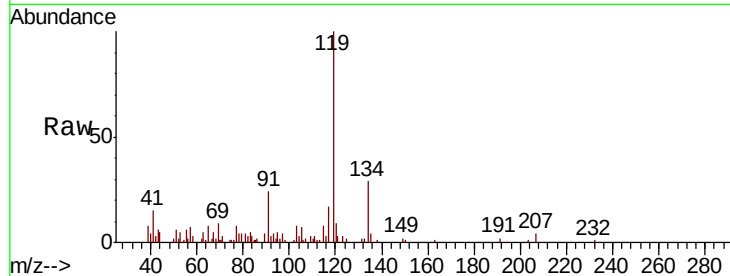




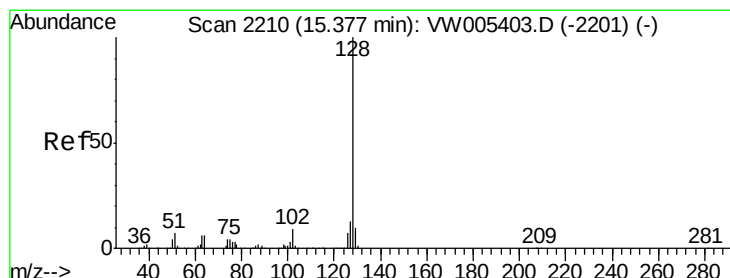
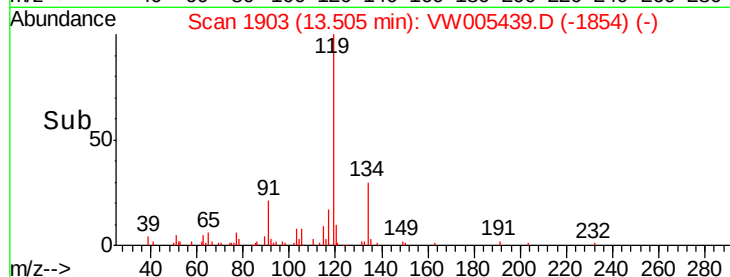
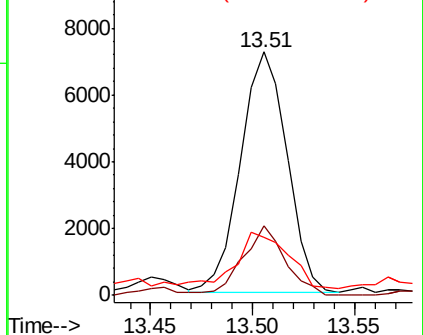
#86
 p-Isopropyltoluene
 Concen: 1.426 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Instrument :
 MSVOA_W
 ClientSampleId :
 SP-PIT-6

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.6	37.8
91	25.7	12.0	36.0

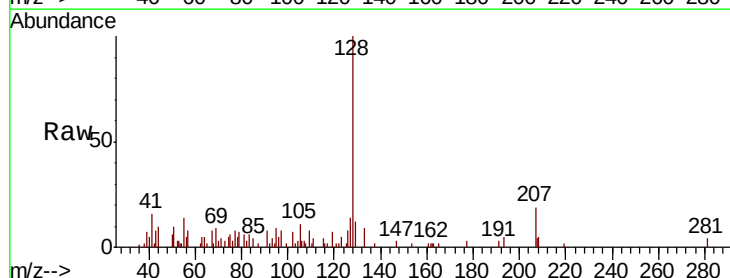


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V



#95
 Naphthalene
 Concen: 1.643 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.01 min
 Lab File: VW005439.D
 Acq: 17 Sep 2018 17:36

Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.5	11.0	16.4#
129	11.4	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

