

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091818\
 Data File : VW005495.D
 Acq On : 18 Sep 2018 22:10
 Operator : SY/AP
 Sample : J4936-39RE
 Misc : 5.85G/5ML/MSVOA_W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 26KVRE

Quant Time: Sep 19 06:01:55 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	129297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	156944	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	68914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	15382	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	59259	44.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.30%	
35) Dibromofluoromethane	7.89	113	48545	55.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.34%	
50) Toluene-d8	10.33	98	141300	35.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.12%	
62) 4-Bromofluorobenzene	12.62	95	19679	13.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	26.64%	

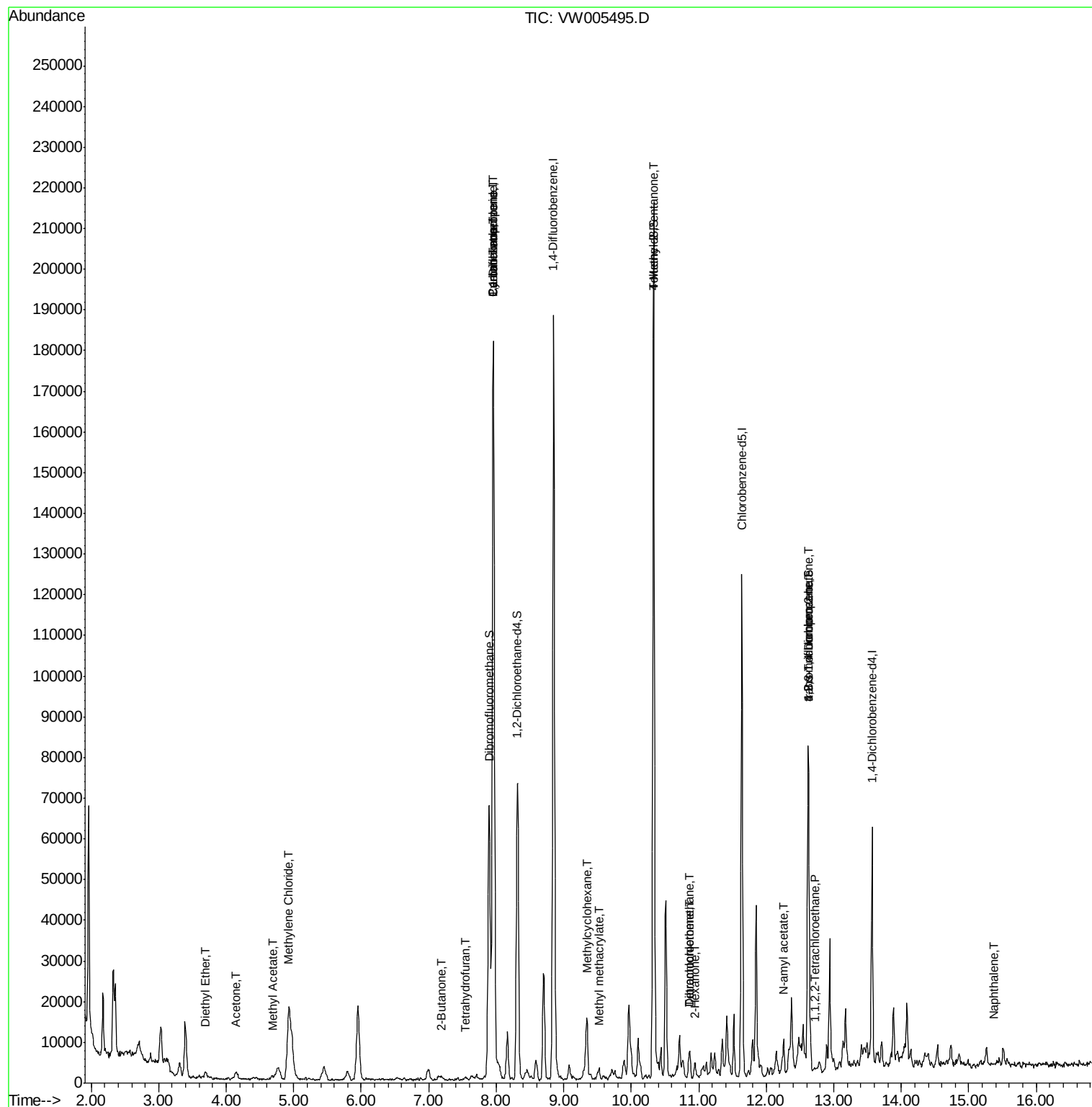
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	301	Below Cal	#	42
5) Bromomethane	2.78	94	445	Below Cal	#	57
8) Diethyl Ether	3.70	74	662	1.176	ug/l	90
11) Tert butyl alcohol	5.20	59	116	Below Cal	#	71
16) Acetone	4.14	43	3753	1.538	ug/l	96
18) Methyl Acetate	4.69	43	1720	2.667	ug/l	96
20) Methylene Chloride	4.92	84	11968	3.669	ug/l	95
25) 2-Butanone	7.19	43	1807	5.597	ug/l #	67
29) Tetrahydrofuran	7.54	42	524	2.548	ug/l #	44
31) Cyclohexane	7.96	56	7803	3.643	ug/l #	64
36) 1,1-Dichloropropene	7.95	75	10524	7.085	ug/l #	51
38) Carbon Tetrachloride	7.95	117	12534	8.098	ug/l #	15
39) Methylcyclohexane	9.34	83	5007	2.901	ug/l	91
48) Methyl methacrylate	9.51	41	1096	1.863	ug/l	91
51) 4-Methyl-2-Pentanone	10.34	43	1342	2.211	ug/l #	3
59) 2-Hexanone	10.94	43	1517	3.670	ug/l #	27
60) Dibromochloromethane	10.87	129	1033	1.142	ug/l #	11
64) Tetrachloroethene	10.87	164	1188	2.333	ug/l	86
74) N-amyl acetate	12.26	43	2329	10.242	ug/l #	83
75) 1,1,2,2-Tetrachloroethane	12.71	83	168	1.067	ug/l #	62
76) 1,2,3-Trichloropropane	12.62	75	9831	77.707	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	9831	201.577	ug/l #	10
95) Naphthalene	15.38	128	507	1.008	ug/l #	68

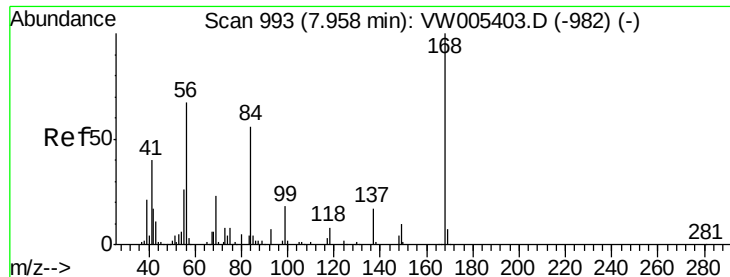
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

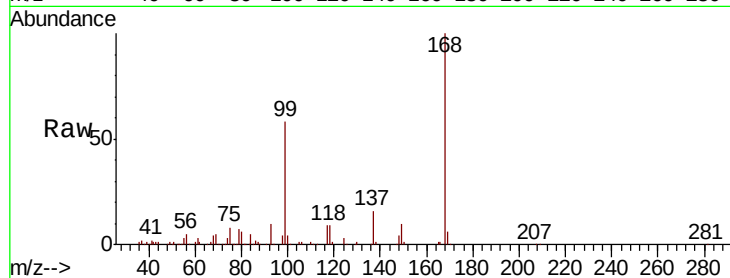
26KVRE

Tgt Ion:168 Resp: 129297

Ion Ratio Lower Upper

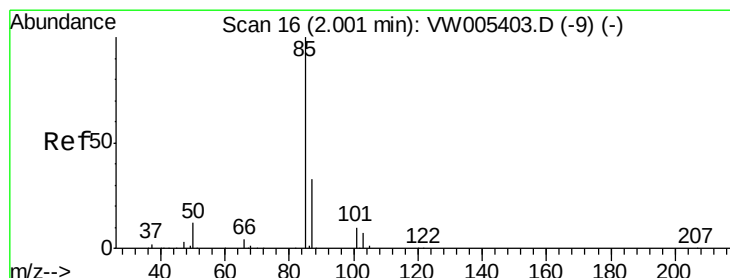
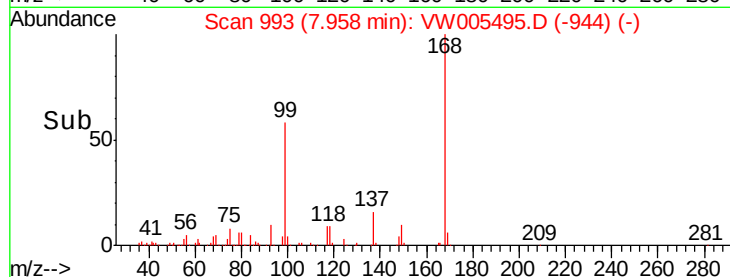
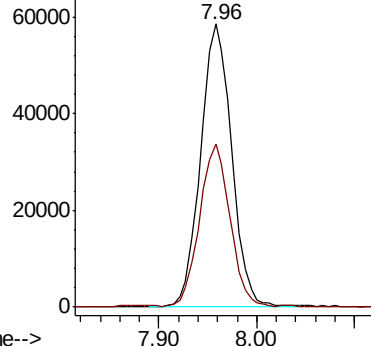
168 100

99 57.2 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005495.D

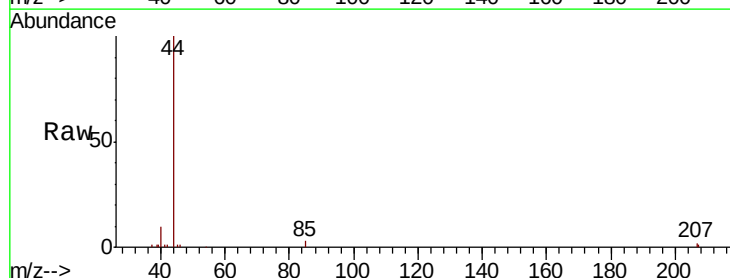
Acq: 18 Sep 2018 22:10

Tgt Ion: 85 Resp: 301

Ion Ratio Lower Upper

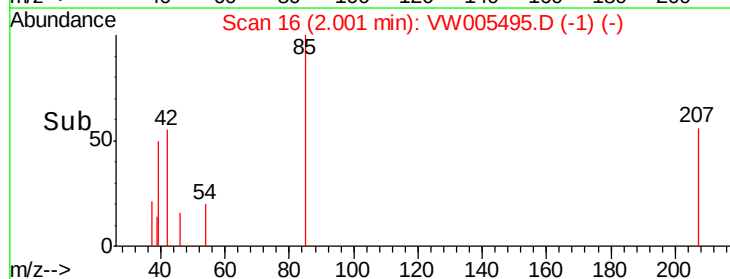
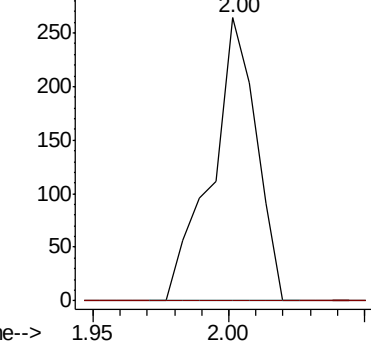
85 100

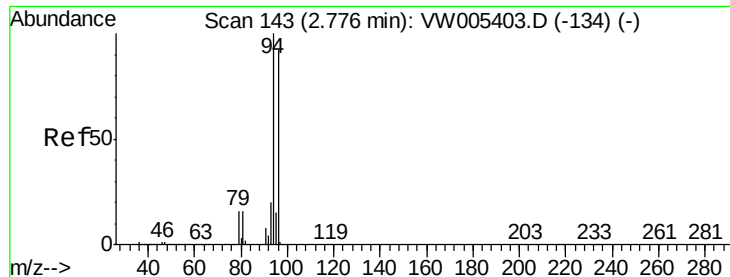
87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

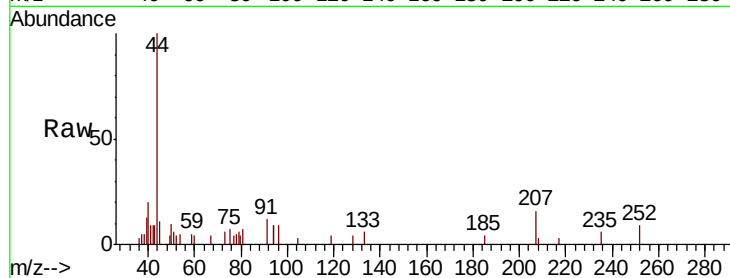
26KVRE

Tgt Ion: 94 Resp: 445

Ion Ratio Lower Upper

94 100

96 50.7 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.78

300

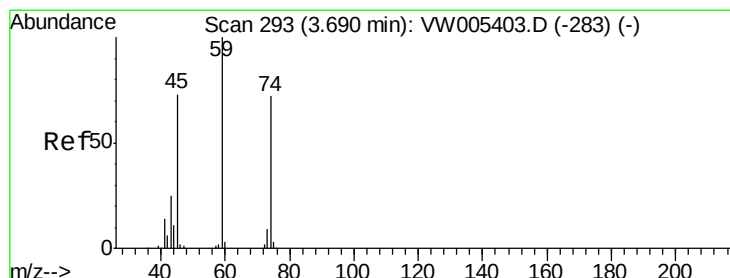
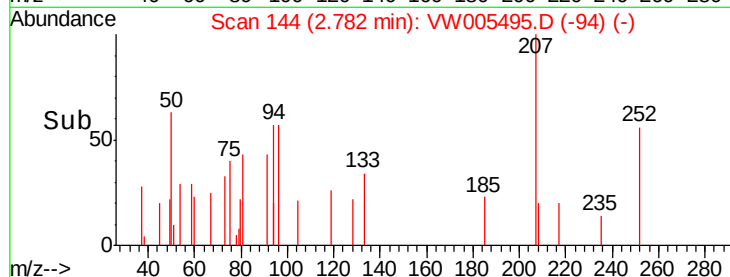
200

100

0

2.75 2.80 2.85

Time-->



#8

Diethyl Ether

Concen: 1.176 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW005495.D

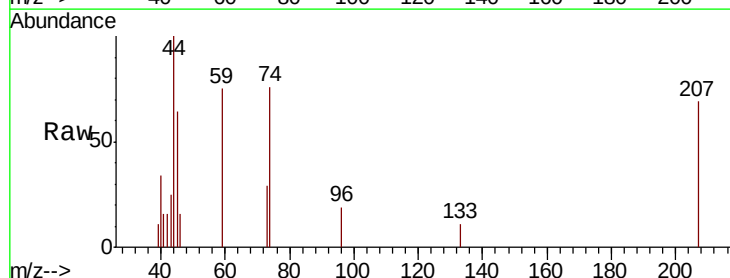
Acq: 18 Sep 2018 22:10

Tgt Ion: 74 Resp: 662

Ion Ratio Lower Upper

74 100

45 116.8 53.1 159.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.70

400

300

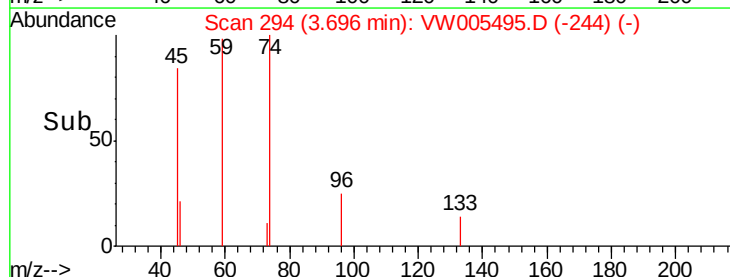
200

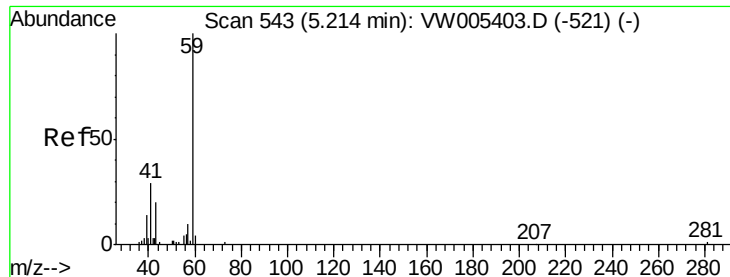
100

0

3.65 3.70 3.75

Time-->

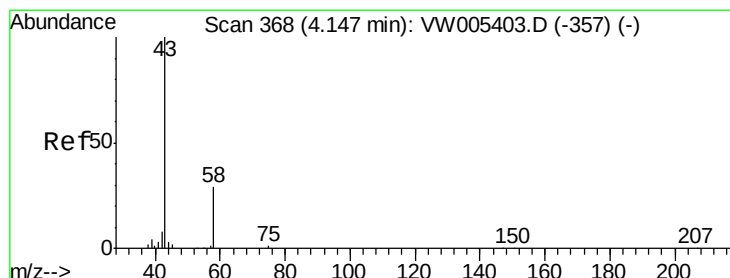
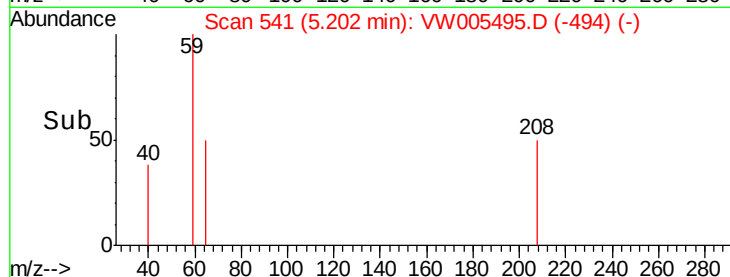
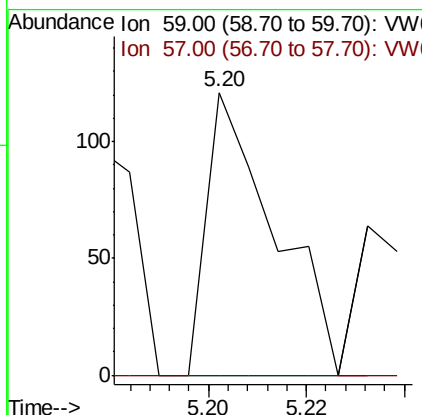
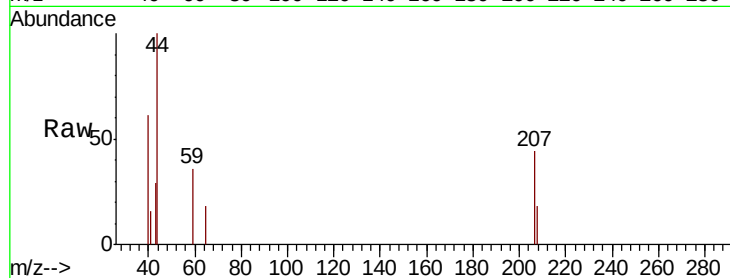




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.20 min Scan# 541
Delta R.T. -0.01 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

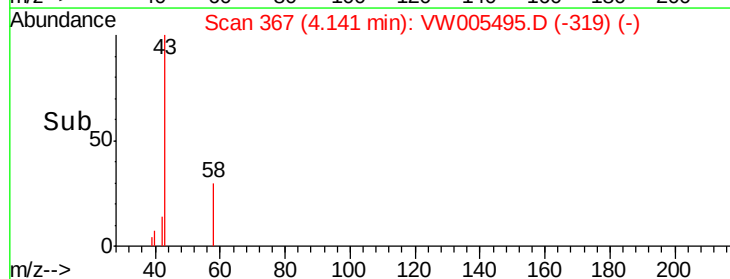
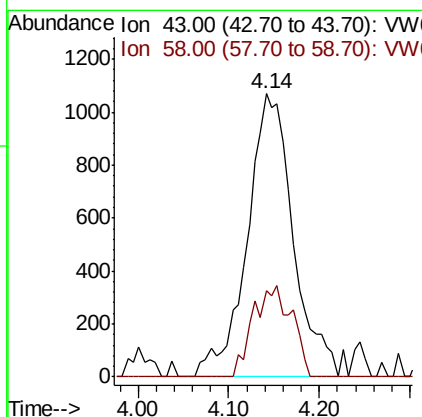
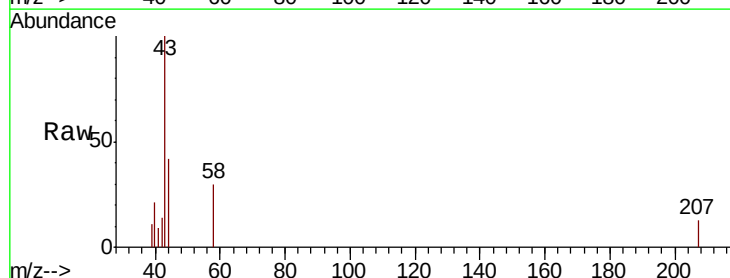
Instrument :
MSVOA_W
ClientSampleId :
26KVRE

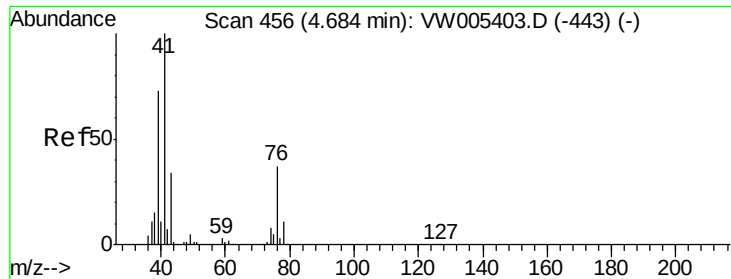
Tgt Ion: 59 Resp: 116
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 1.538 ug/l
RT: 4.14 min Scan# 367
Delta R.T. -0.01 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

Tgt Ion: 43 Resp: 3753
Ion Ratio Lower Upper
43 100
58 30.5 22.8 34.2

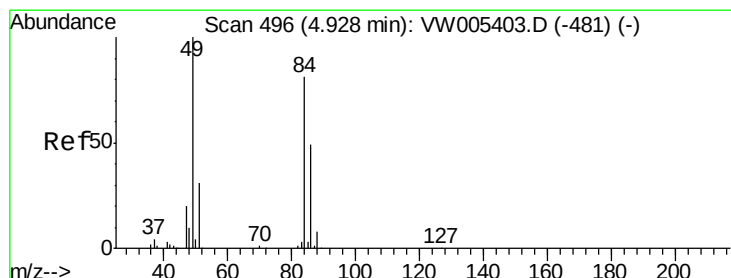
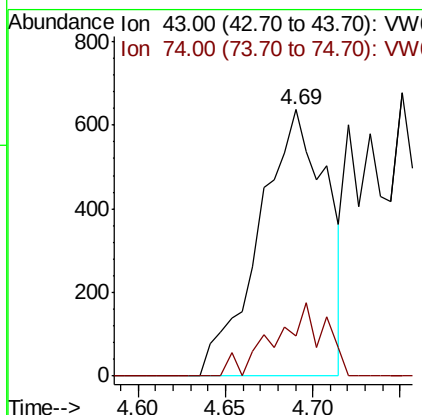
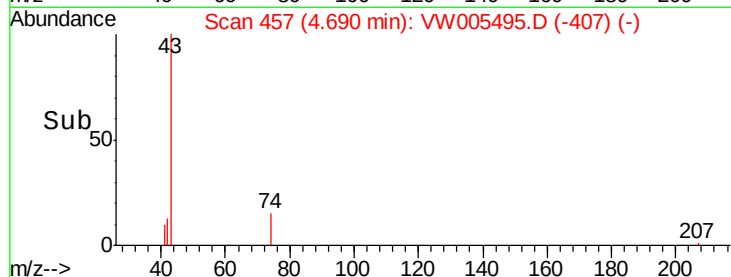
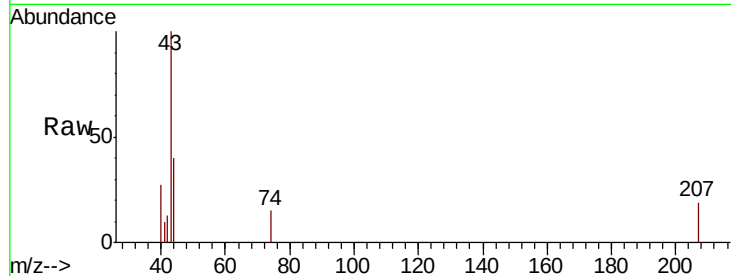




#18
Methyl Acetate
Concen: 2.667 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.01 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

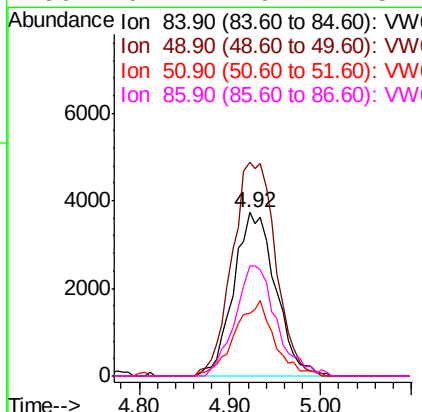
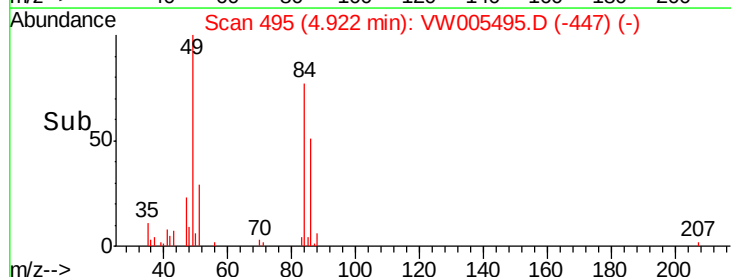
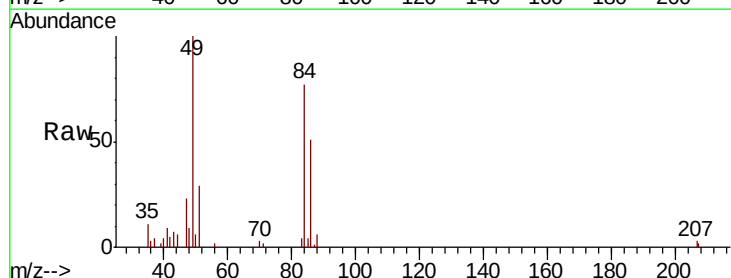
Instrument :
MSVOA_W
ClientSampleId :
26KVRE

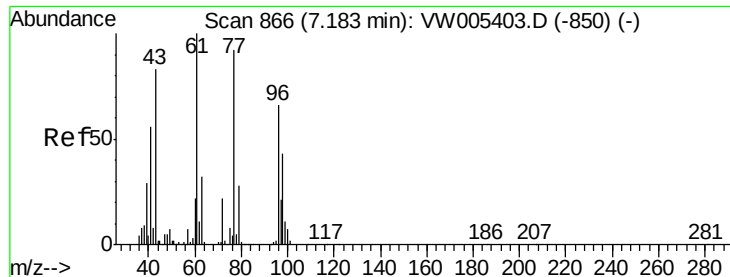
Tgt Ion: 43 Resp: 1720
Ion Ratio Lower Upper
43 100
74 20.4 17.7 26.5



#20
Methylene Chloride
Concen: 3.669 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.01 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

Tgt Ion: 84 Resp: 11968
Ion Ratio Lower Upper
84 100
49 130.5 99.3 148.9
51 38.3 31.1 46.7
86 67.2 49.1 73.7





#25

2-Butanone

Concen: 5.597 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampled :

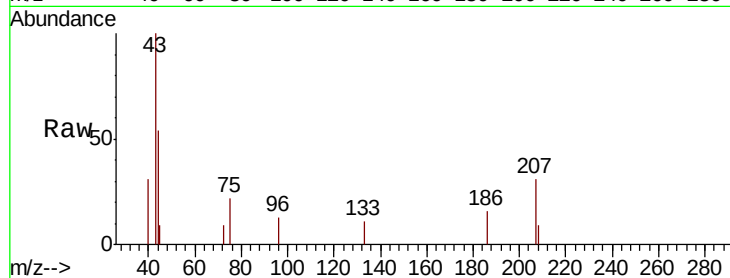
26KVRE

Tgt Ion: 43 Resp: 1807

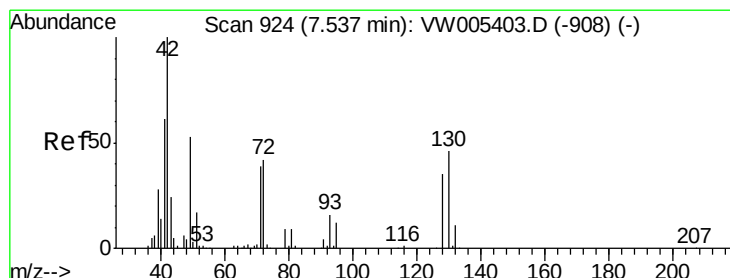
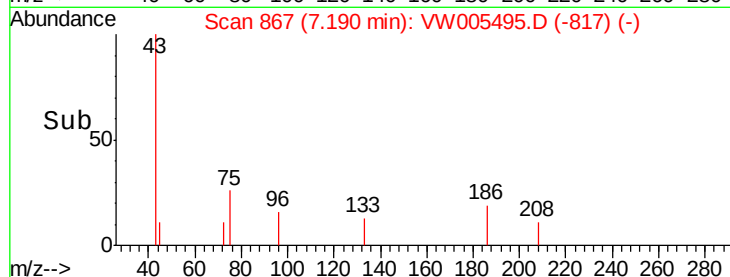
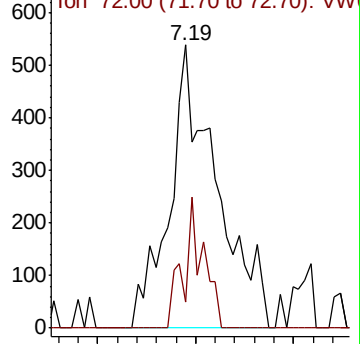
Ion Ratio Lower Upper

43 100

72 9.5 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VW



#29

Tetrahydrofuran

Concen: 2.548 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

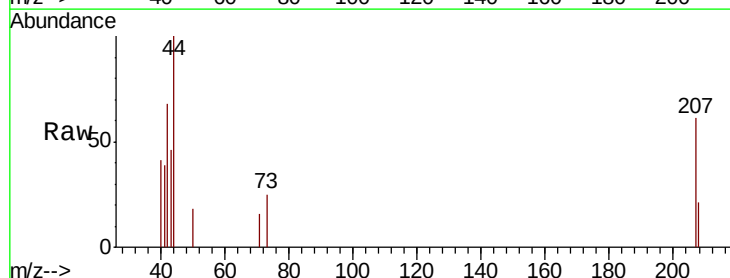
Tgt Ion: 42 Resp: 524

Ion Ratio Lower Upper

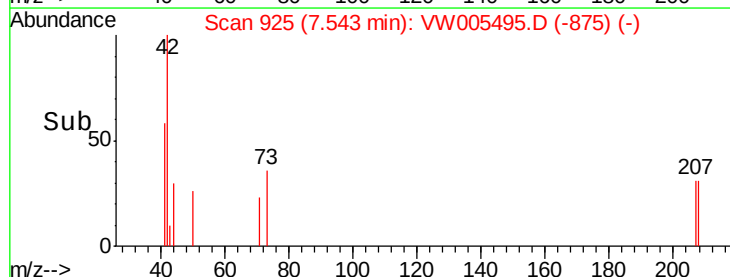
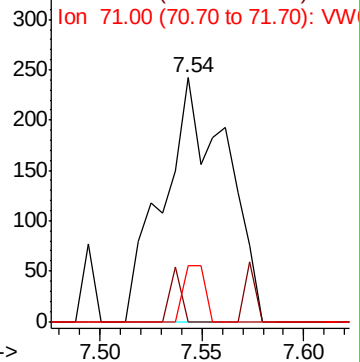
42 100

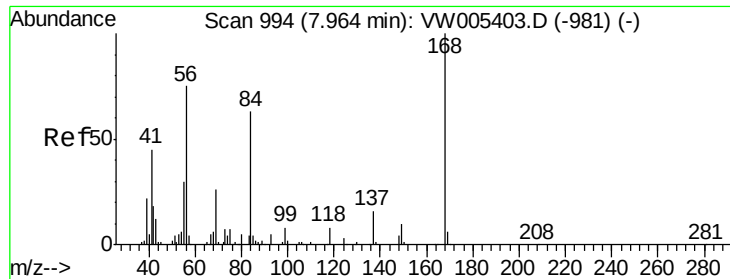
72 3.8 33.2 49.8#

71 7.8 31.0 46.6#



Abundance Ion 42.00 (41.70 to 42.70): VW

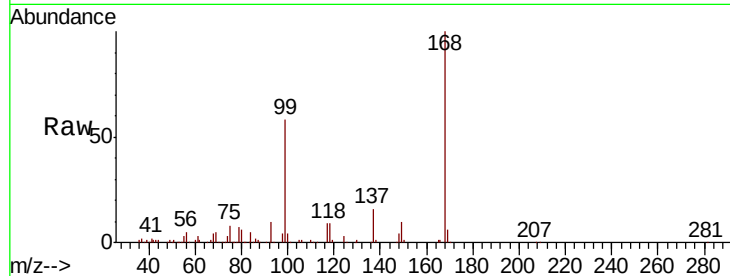




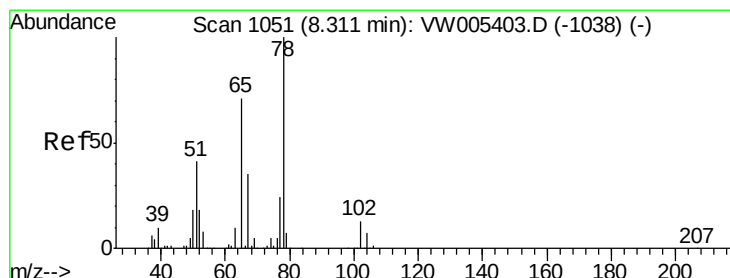
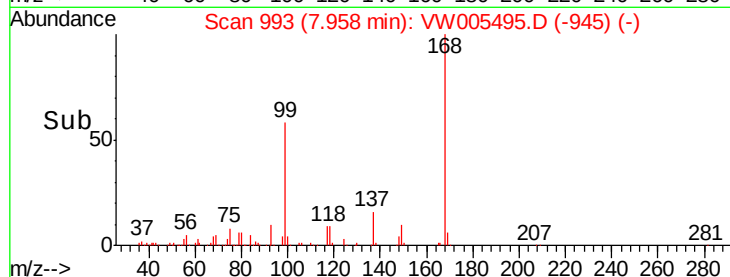
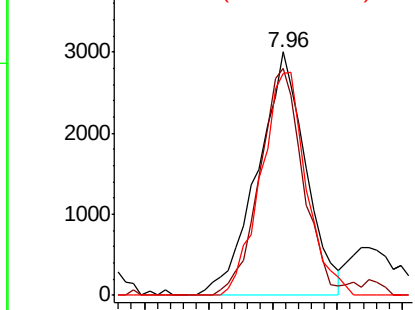
#31
Cyclohexane
Concen: 3.643 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

Instrument :
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ClientSampleId :
26KVRE

Tgt Ion: 56 Resp: 7803
Ion Ratio Lower Upper
56 100
69 93.4 27.2 40.8#
84 91.1 66.7 100.1

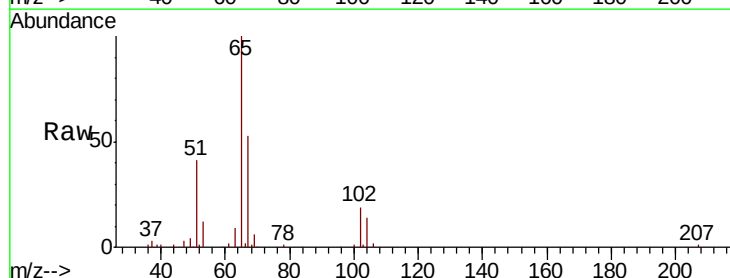


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

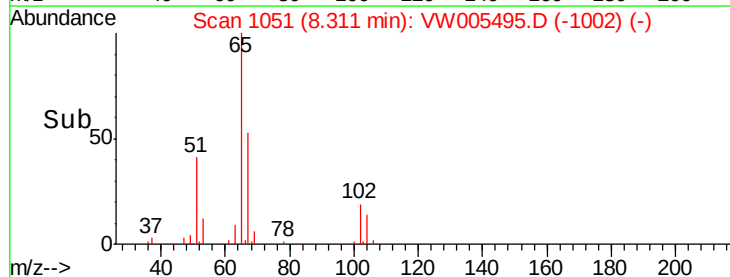
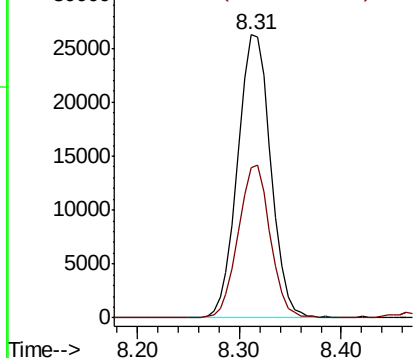


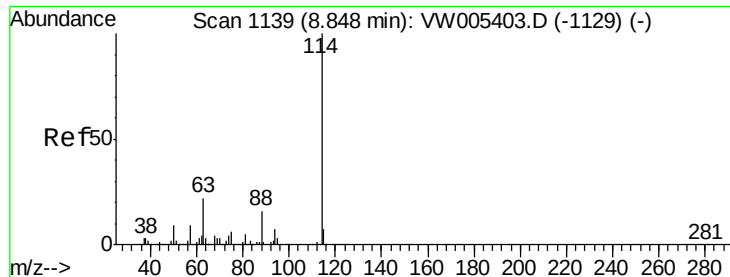
#33
1,2-Dichloroethane-d4
Concen: 44.154 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

Tgt Ion: 65 Resp: 59259
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

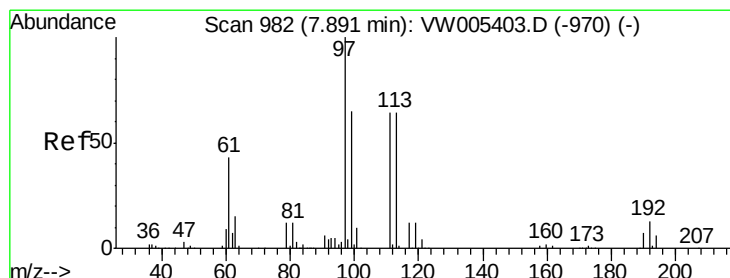
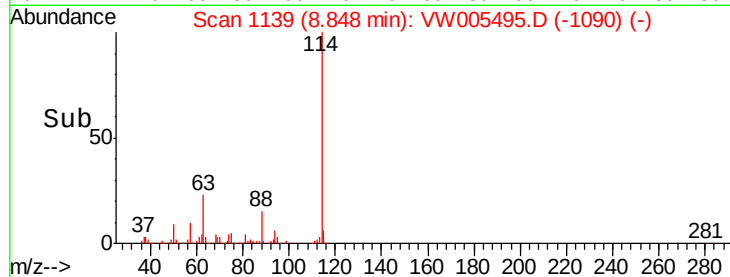
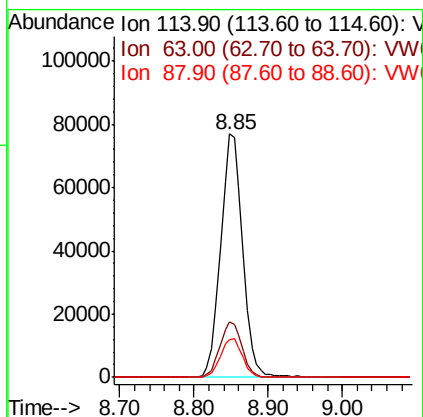
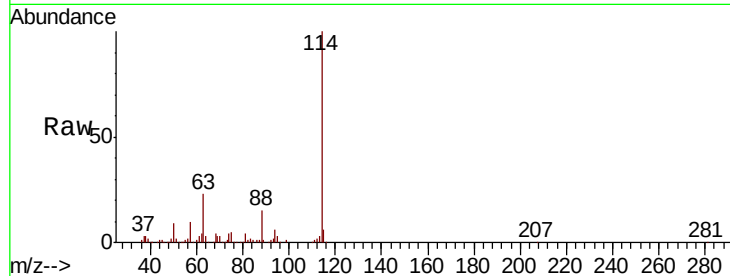




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW005495.D
 Acq: 18 Sep 2018 22:10

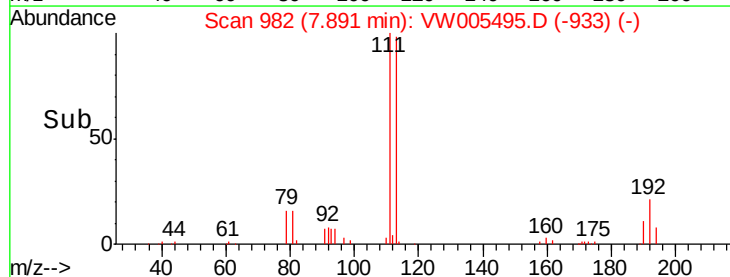
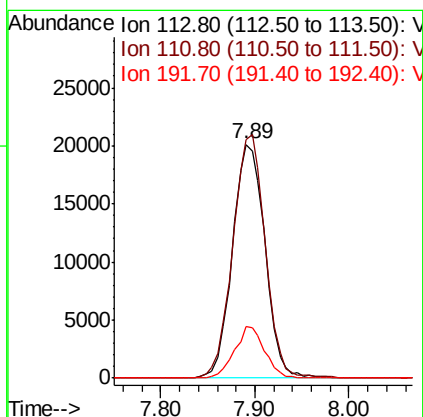
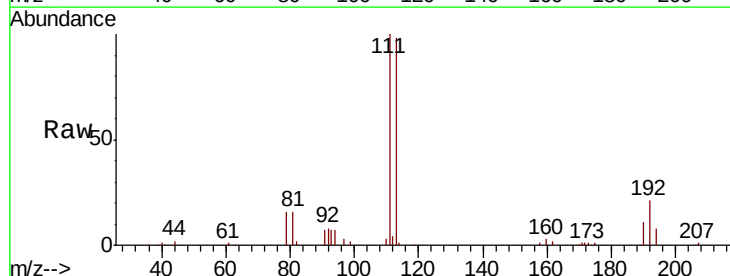
Instrument :
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 26KVRE

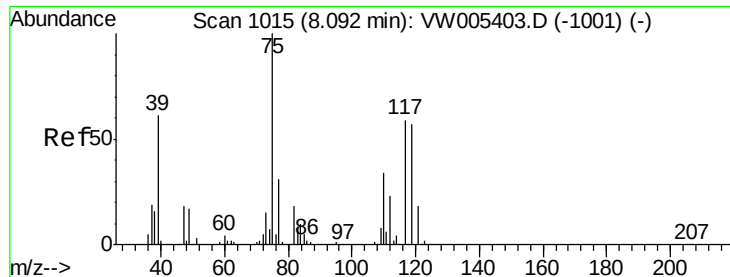
Tgt Ion:114 Resp: 156944
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.4
 88 15.5 0.0 31.8



#35
 Dibromofluoromethane
 Concen: 55.167 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005495.D
 Acq: 18 Sep 2018 22:10

Tgt Ion:113 Resp: 48545
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.3 123.5
 192 20.2 16.5 24.7

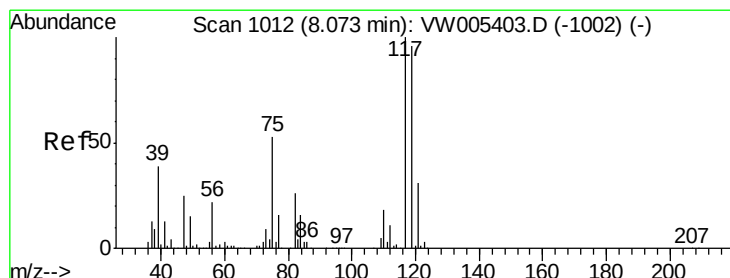
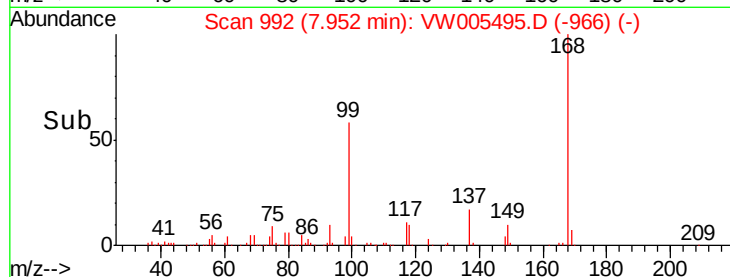
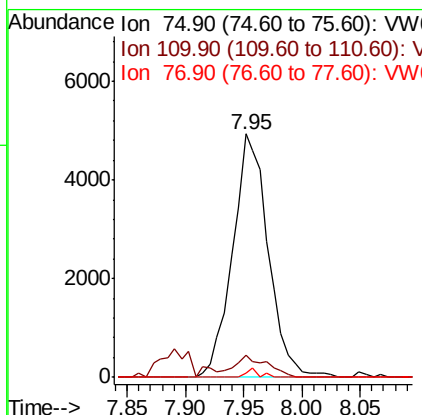
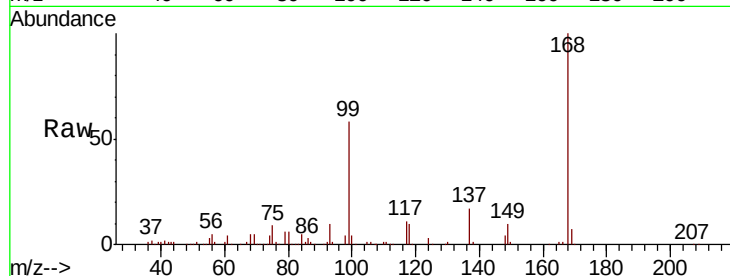




#36
 1,1-Dichloropropene
 Concen: 7.085 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.14 min
 Lab File: VW005495.D
 Acq: 18 Sep 2018 22:10

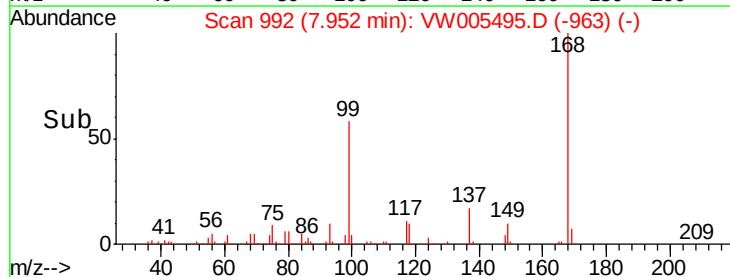
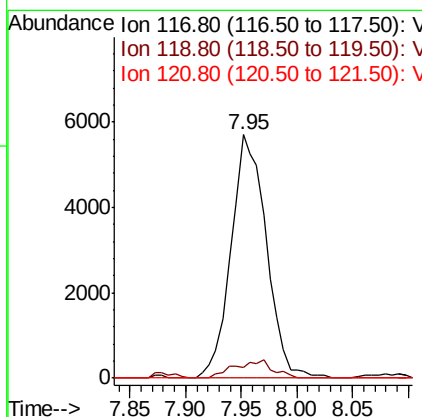
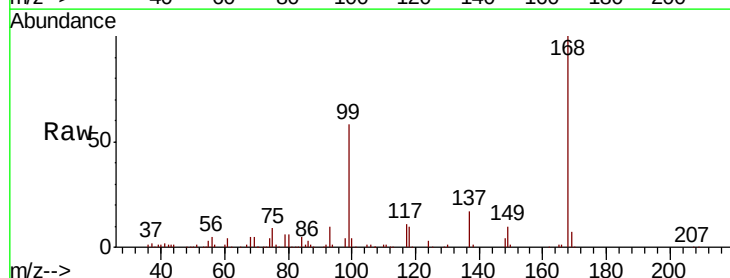
Instrument :
 MSVOA_W
 ClientSampleId :
 26KVRE

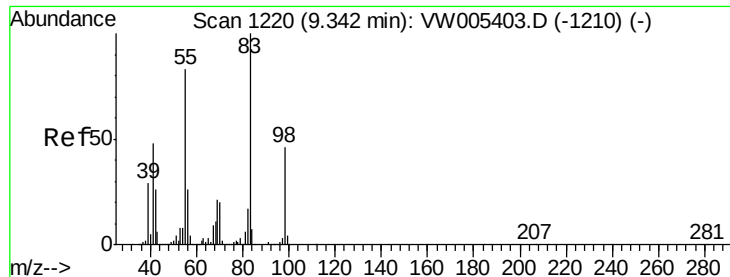
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.8	50.4#
77	1.2	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 8.098 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW005495.D
 Acq: 18 Sep 2018 22:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.8	115.2#
121	0.0	24.7	37.1#





#39

Methylcyclohexane

Concen: 2.901 ug/l

RT: 9.34 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampled :

26KVRE

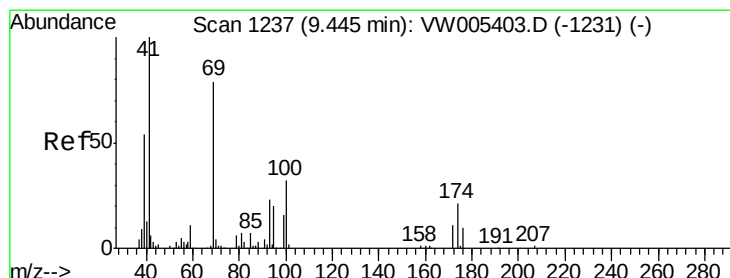
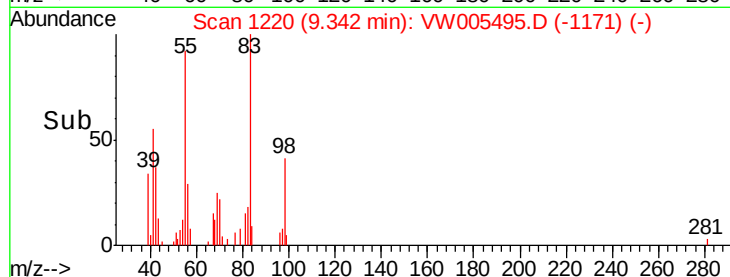
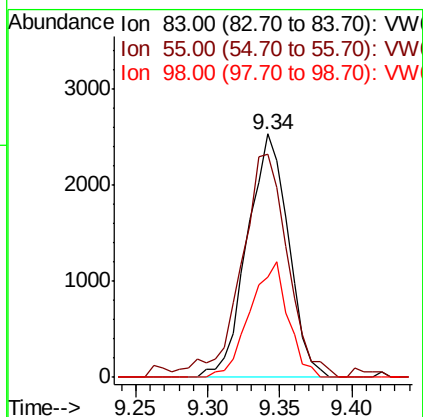
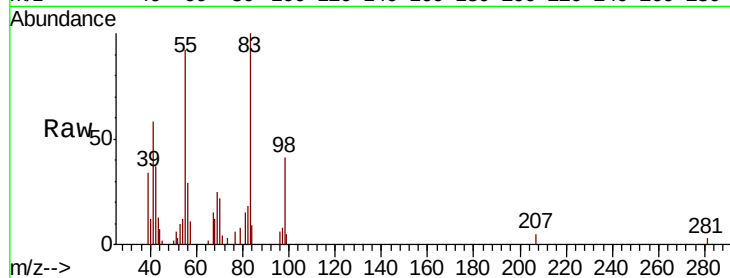
Tgt Ion: 83 Resp: 5007

Ion Ratio Lower Upper

83 100

55 91.6 66.1 99.1

98 41.1 36.7 55.1



#48

Methyl methacrylate

Concen: 1.863 ug/l

RT: 9.51 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

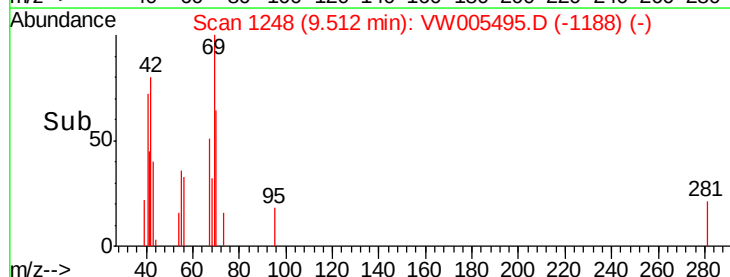
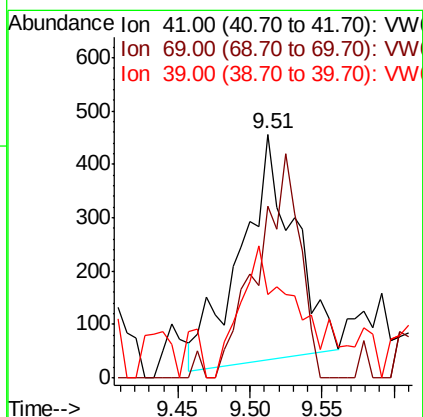
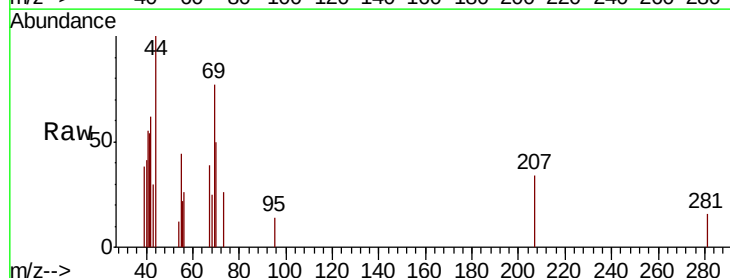
Tgt Ion: 41 Resp: 1096

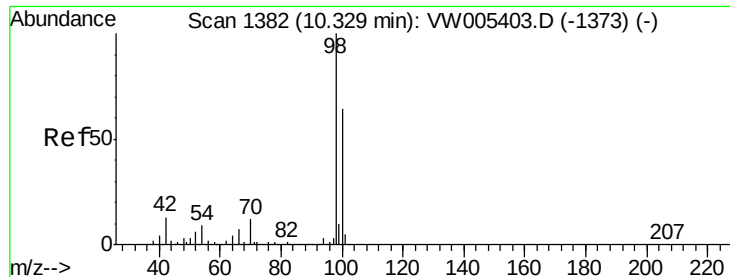
Ion Ratio Lower Upper

41 100

69 77.8 67.5 101.3

39 65.1 45.5 68.3





#50

Toluene-d8

Concen: 35.063 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

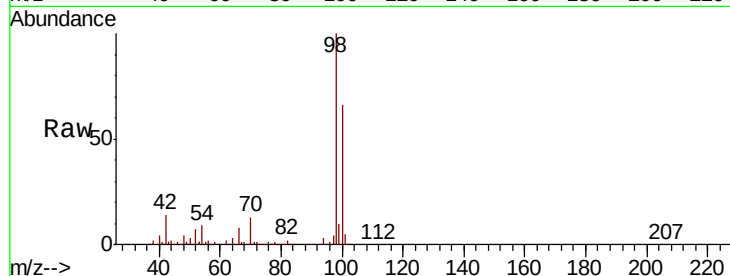
26KVRE

Tgt Ion: 98 Resp: 141300

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.33

80000

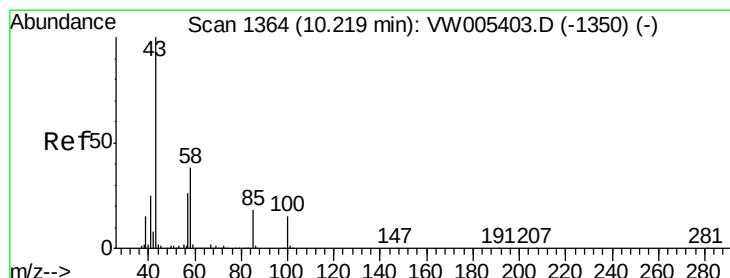
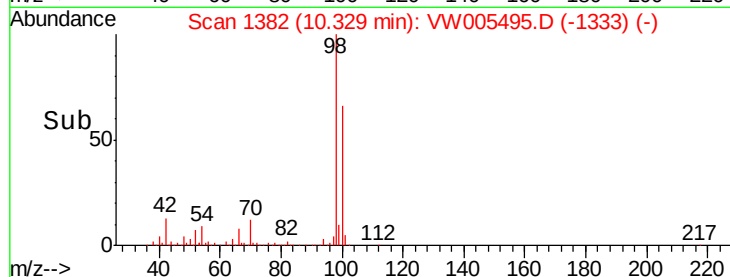
60000

40000

20000

0

Time--> 10.20 10.30 10.40



#51

4-Methyl-2-Pentanone

Concen: 2.211 ug/l

RT: 10.34 min Scan# 1383

Delta R.T. 0.12 min

Lab File: VW005495.D

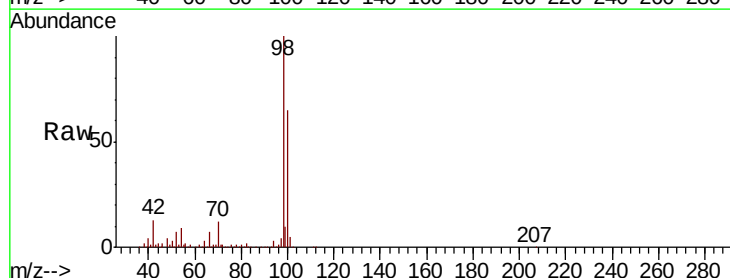
Acq: 18 Sep 2018 22:10

Tgt Ion: 43 Resp: 1342

Ion Ratio Lower Upper

43 100

58 95.7 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

1000

800

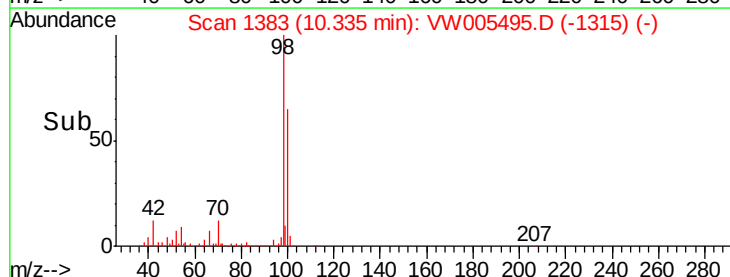
600

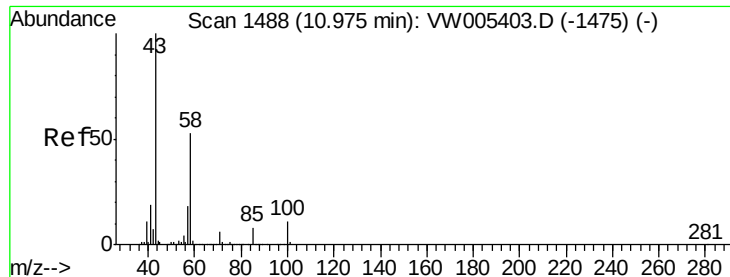
400

200

0

Time--> 10.25 10.30 10.35 10.40

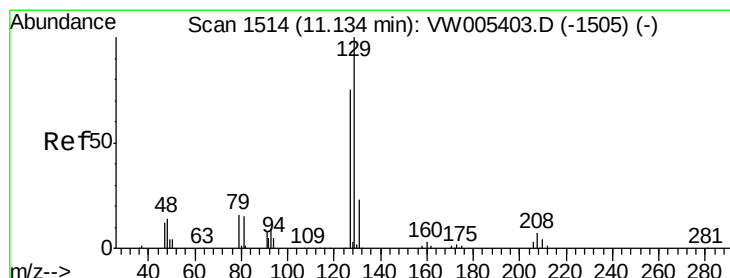
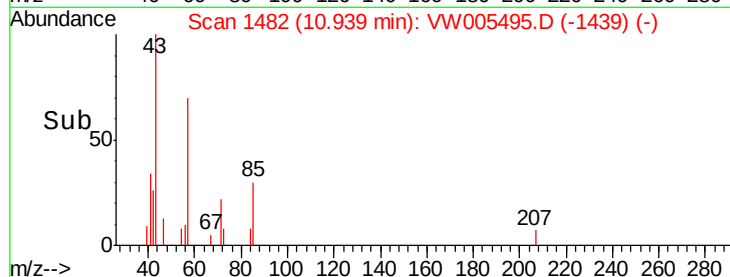
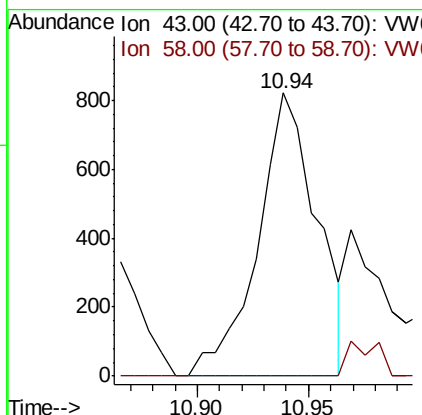
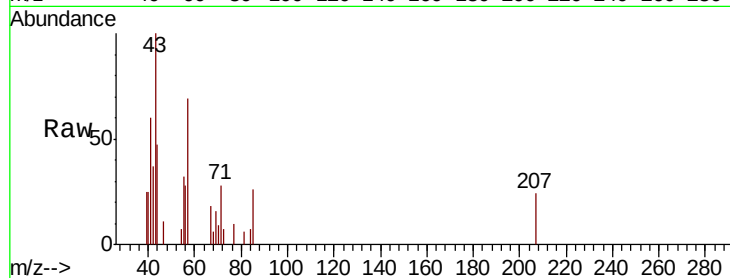




#59
2-Hexanone
Concen: 3.670 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

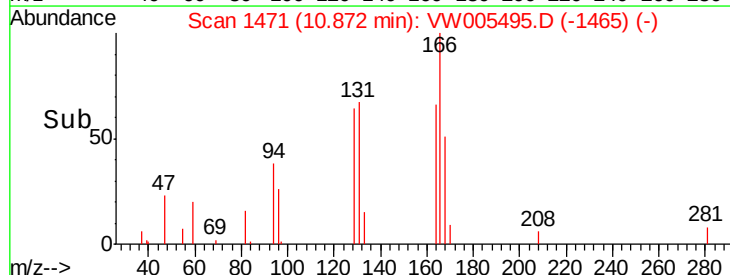
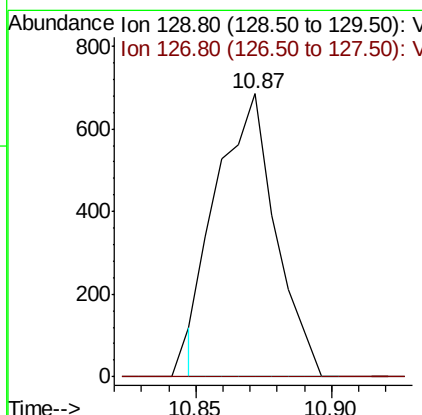
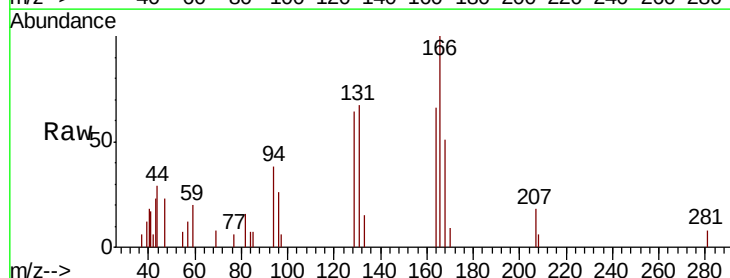
Instrument :
MSVOA_W
ClientSampled :
26KVRE

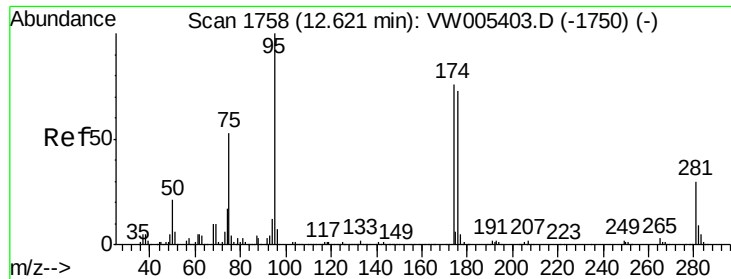
Tgt Ion: 43 Resp: 1517
Ion Ratio Lower Upper
43 100
58 0.0 25.5 76.5#



#60
Dibromochloromethane
Concen: 1.142 ug/l
RT: 10.87 min Scan# 1471
Delta R.T. -0.26 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

Tgt Ion: 129 Resp: 1033
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 13.318 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

26KVRE

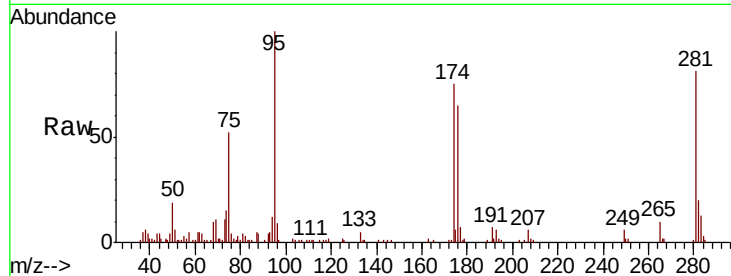
Tgt Ion: 95 Resp: 19679

Ion Ratio Lower Upper

95 100

174 72.8 0.0 161.2

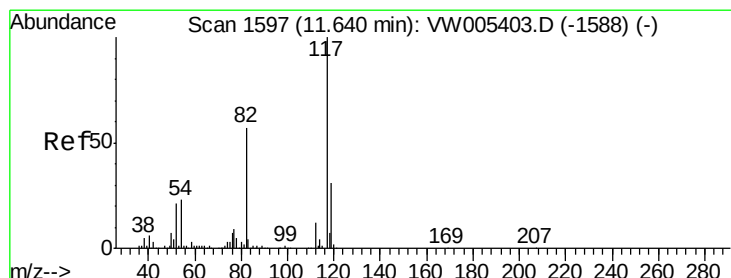
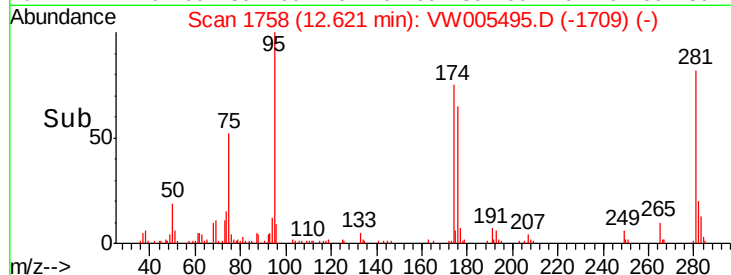
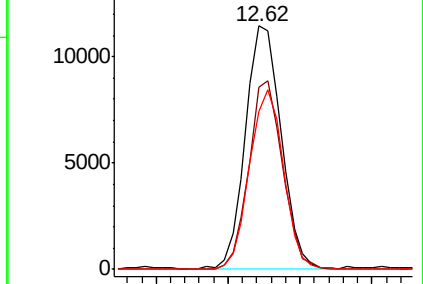
176 69.9 0.0 156.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

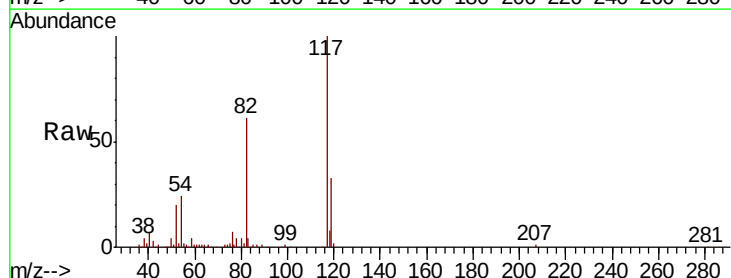
Tgt Ion: 117 Resp: 68914

Ion Ratio Lower Upper

117 100

82 60.4 45.9 68.9

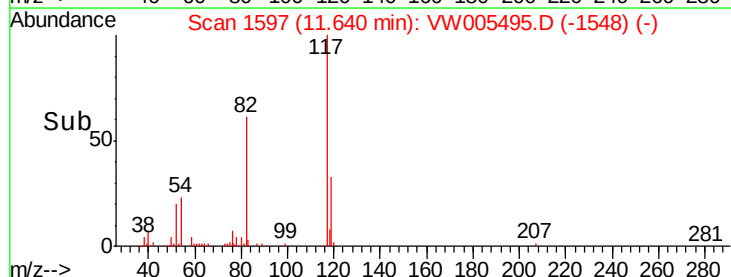
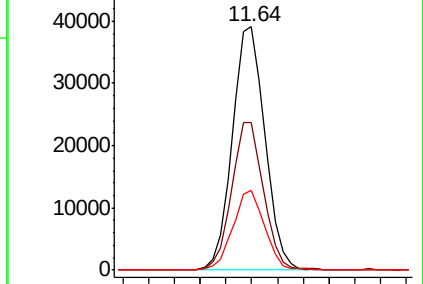
119 33.0 24.8 37.2

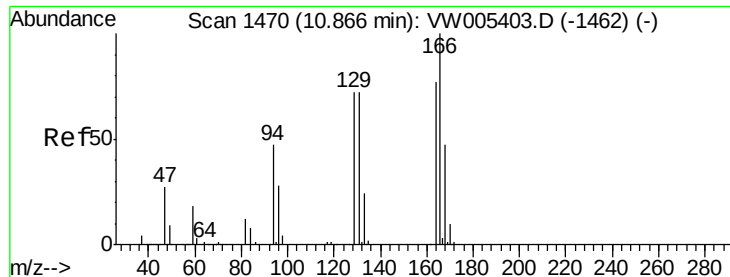


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#64

Tetrachloroethene

Concen: 2.333 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

26KVRE

Tgt Ion:164 Resp: 1188

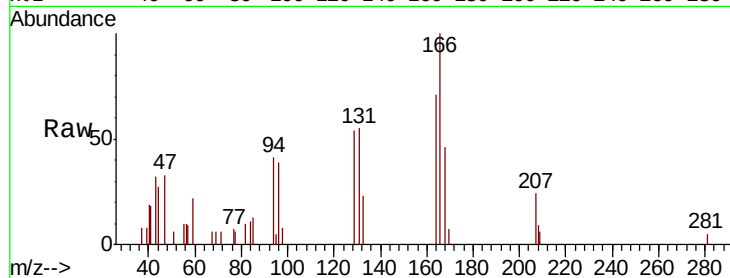
Ion Ratio Lower Upper

164 100

166 141.7 104.0 156.0

129 77.0 74.9 112.3

131 77.6 75.3 112.9

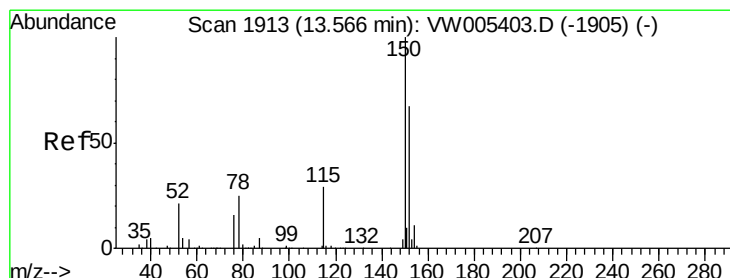
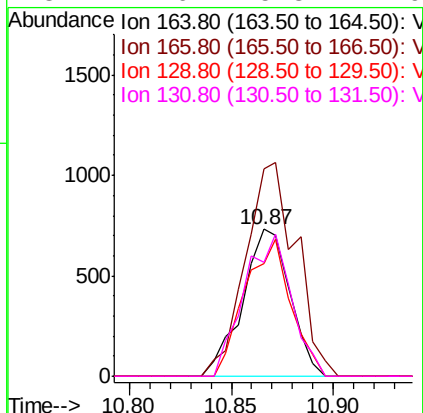
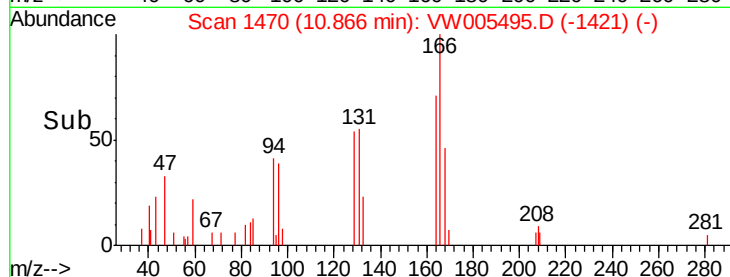


Abundance Ion 163.80 (163.50 to 164.50): V

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: VW005495.D

Acq: 18 Sep 2018 22:10

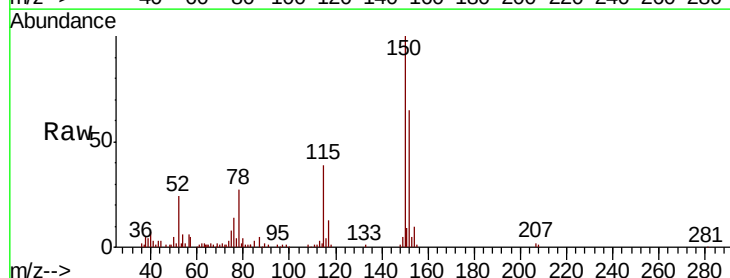
Tgt Ion:152 Resp: 15382

Ion Ratio Lower Upper

152 100

115 58.9 29.5 88.5

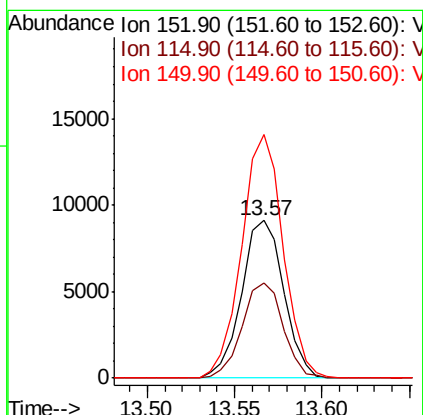
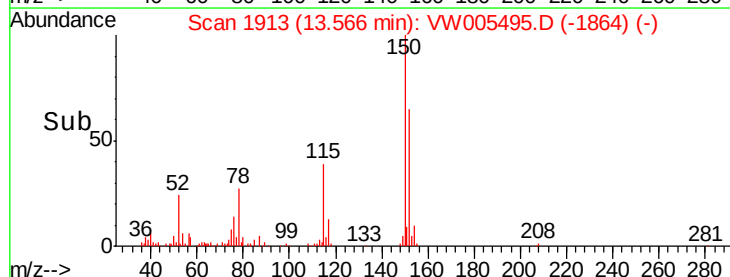
150 151.2 0.0 345.6

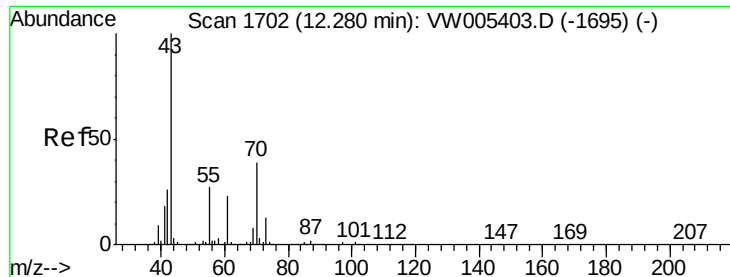


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 10.242 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

26KVRE

Tgt Ion: 43 Resp: 2329

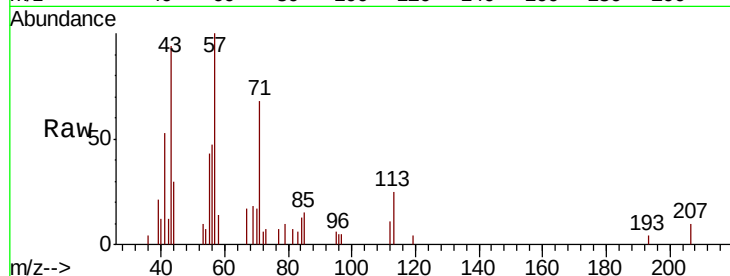
Ion Ratio Lower Upper

43 100

70 35.2 31.9 47.9

55 29.8 21.4 32.0

61 0.0 18.3 27.5#

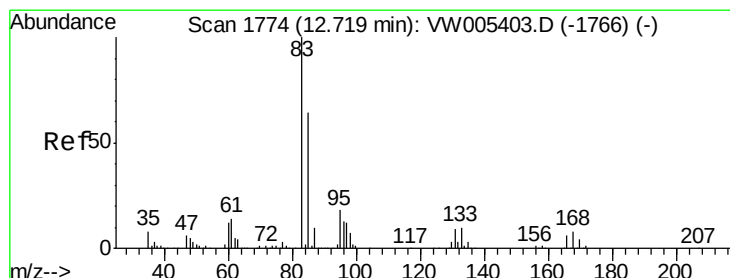
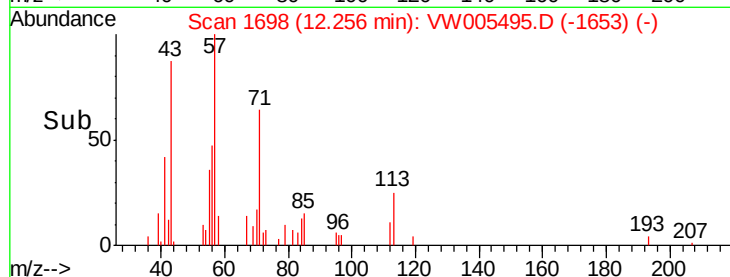
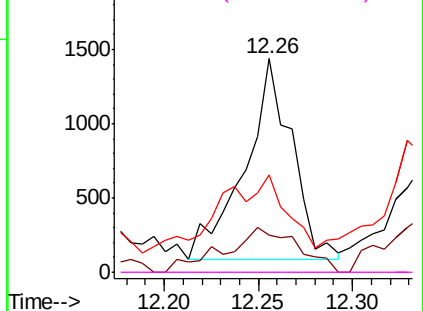


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.067 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

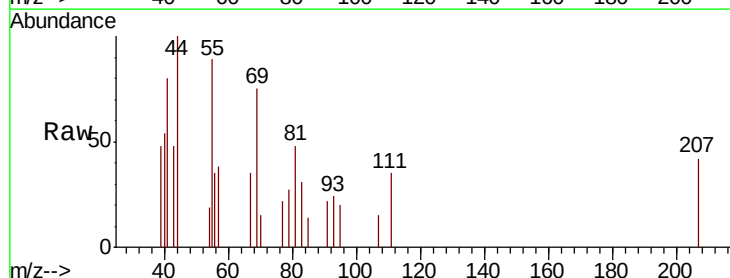
Tgt Ion: 83 Resp: 168

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

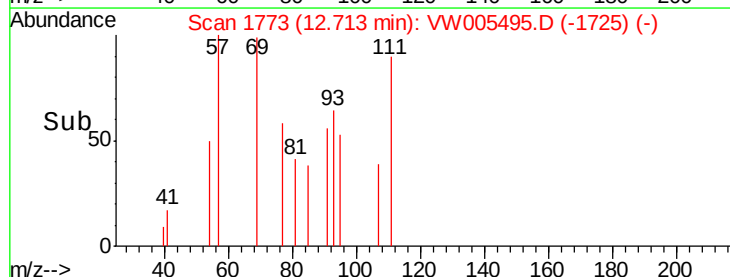
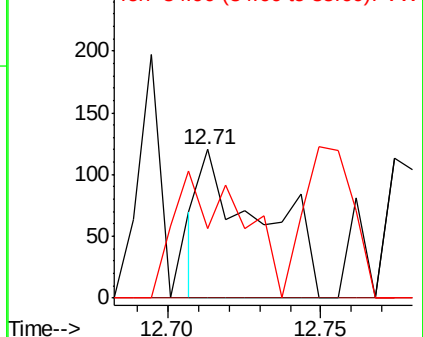
85 94.0 31.6 95.0

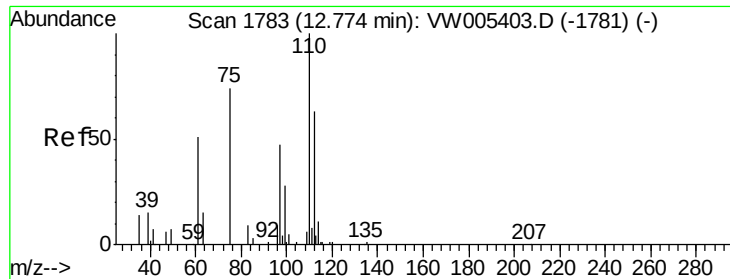


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 77.707 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

Instrument :

MSVOA_W

ClientSampleId :

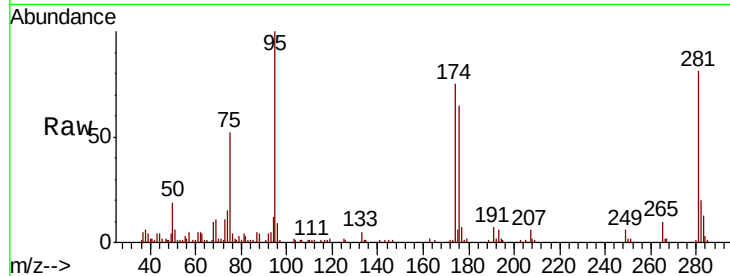
26KVRE

Tgt Ion: 75 Resp: 9831

Ion Ratio Lower Upper

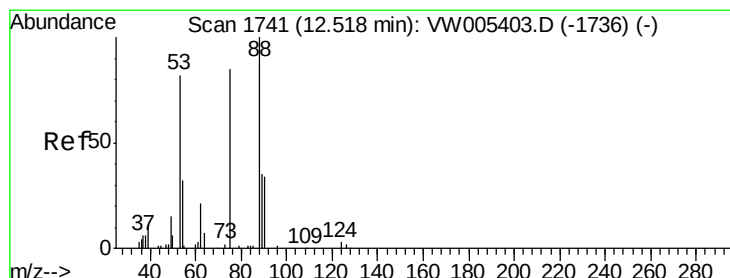
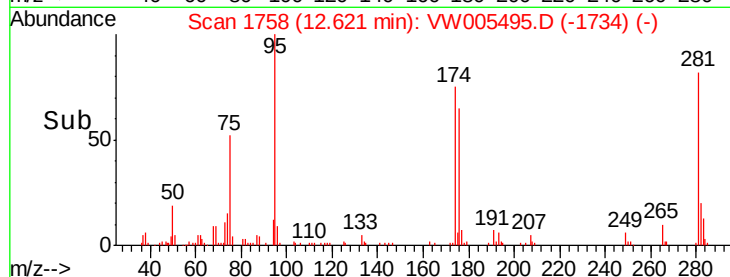
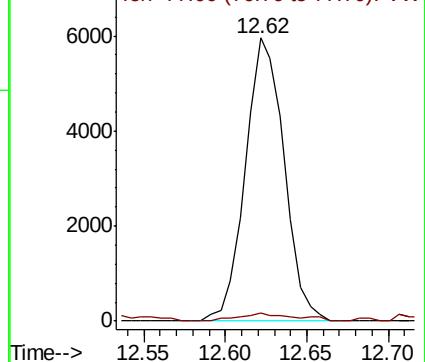
75 100

77 4.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 201.577 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005495.D

Acq: 18 Sep 2018 22:10

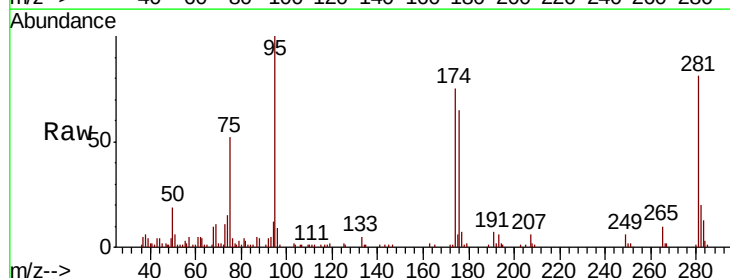
Tgt Ion: 75 Resp: 9831

Ion Ratio Lower Upper

75 100

53 2.0 83.2 124.8#

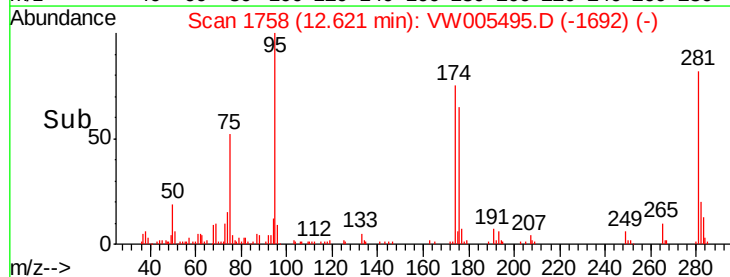
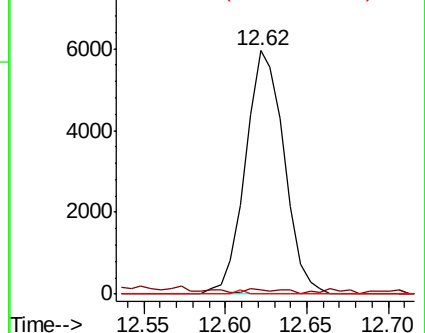
89 0.3 36.6 54.8#

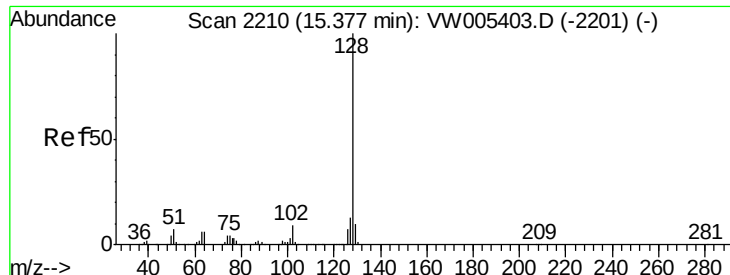


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

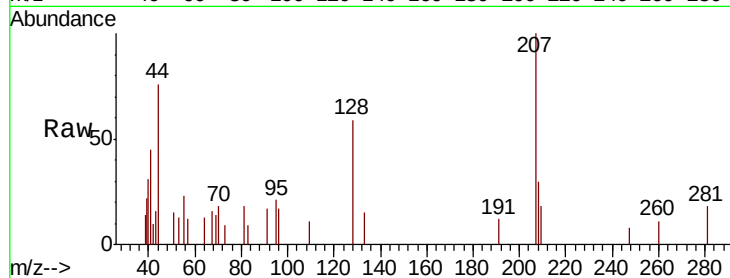




#95
Naphthalene
Concen: 1.008 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW005495.D
Acq: 18 Sep 2018 22:10

Instrument :
MSVOA_W
ClientSampleId :
26KVRE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	0.0	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

