

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092518\
 Data File : VW005623.D
 Acq On : 25 Sep 2018 20:28
 Operator : VA/AP
 Sample : J5066-13
 Misc : 5.69G/5ML/MSVOA_W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H2

Quant Time: Sep 26 04:16:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 09:05:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	296617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	484235	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	440856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	224432	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	172720	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	7.88	113	142328	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
50) Toluene-d8	10.33	98	516272	41.64	ug/l	0.00
Spiked Amount			Recovery	=	83.28%	
62) 4-Bromofluorobenzene	12.62	95	210526	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	

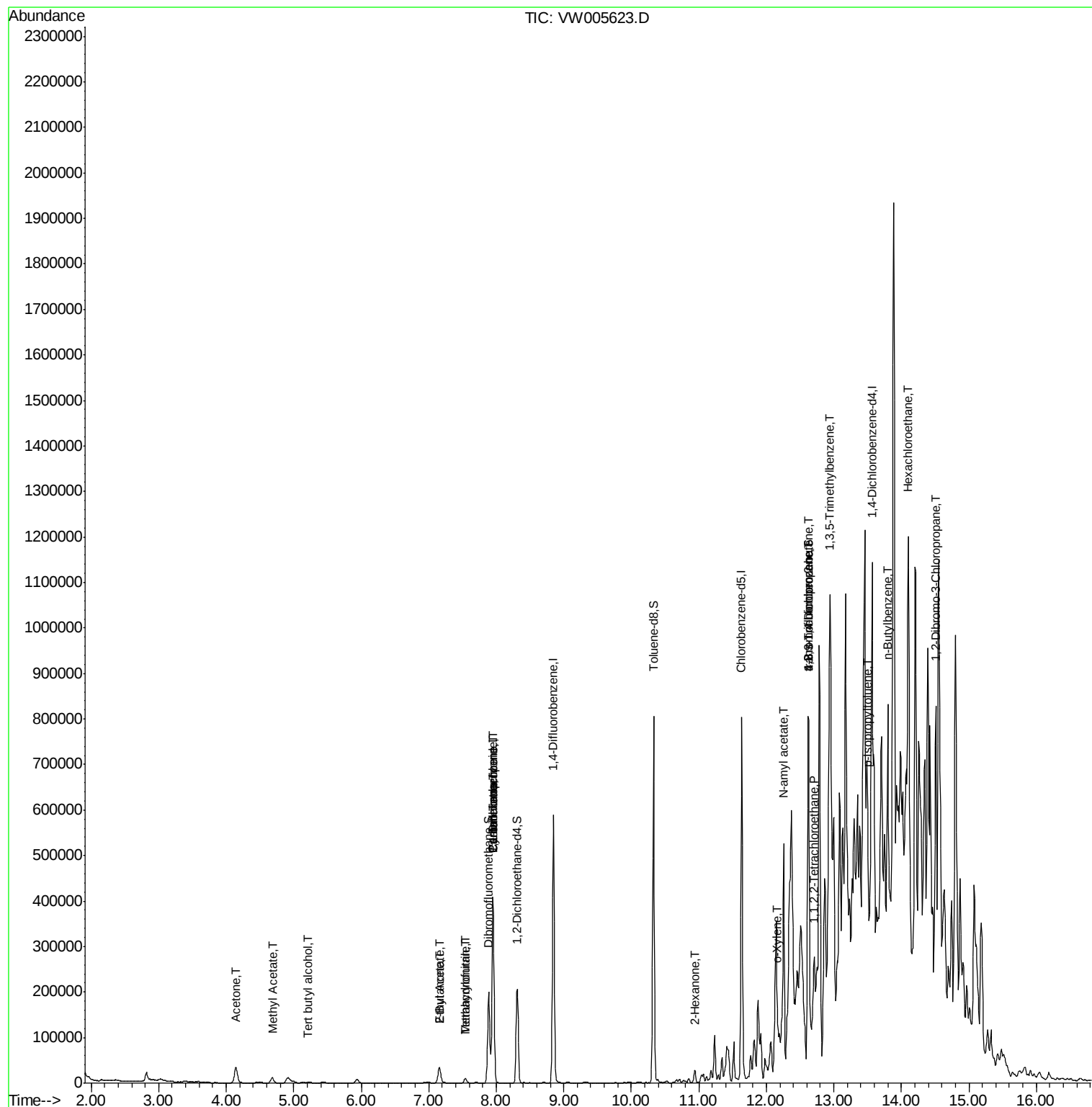
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.03	85	19	Below Cal	#	41
11) Tert butyl alcohol	5.21	59	977	3.073	ug/l #	72
13) Acrolein	3.64	56	49	Below Cal	#	1
16) Acetone	4.14	43	70652	123.850	ug/l	92
18) Methyl Acetate	4.68	43	22241	13.429	ug/l	96
20) Methylene Chloride	4.92	84	9037	Below Cal		89
25) 2-Butanone	7.16	43	2298	2.708	ug/l	91
29) Tetrahydrofuran	7.54	42	7971	15.034	ug/l	98
31) Cyclohexane	7.95	56	6604	1.219	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	22634	4.643	ug/l #	50
37) Ethyl Acetate	7.16	43	2298	1.120	ug/l #	1
38) Carbon Tetrachloride	7.95	117	28995	5.551	ug/l #	17
41) Methacrylonitrile	7.54	41	5122	4.388	ug/l #	50
59) 2-Hexanone	10.94	43	10552	7.647	ug/l #	33
69) o-Xylene	12.17	106	6121	1.041	ug/l	78
74) N-amyl acetate	12.26	43	109926	31.191	ug/l #	69
75) 1,1,2,2-Tetrachloroethane	12.69	83	13535	5.236	ug/l #	91
76) 1,2,3-Trichloropropane	12.62	75	106579	55.709	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.95	105	40050	2.959	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	106579	125.474	ug/l #	10
86) p-Isopropyltoluene	13.51	119	42755	2.893	ug/l	98
89) n-Butylbenzene	13.80	91	54029	3.876	ug/l #	1
90) Hexachloroethane	14.10	117	34068	12.717	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2084	4.231	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005623.D

Acq: 25 Sep 2018 20:28

Instrument :

MSVOA_W

ClientSampleId :

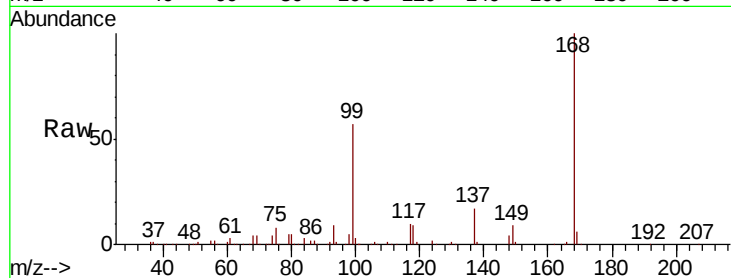
EP1-Q1-H2

Tgt Ion:168 Resp: 296617

Ion Ratio Lower Upper

168 100

99 56.7 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

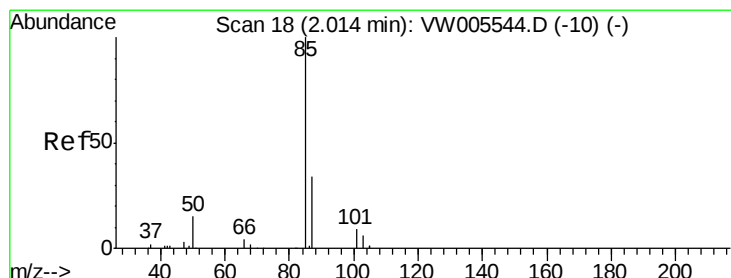
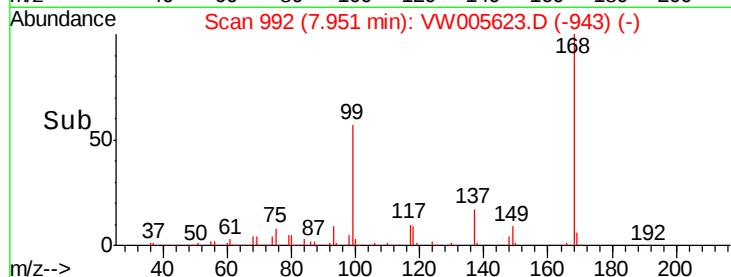
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.03 min Scan# 21

Delta R.T. 0.02 min

Lab File: VW005623.D

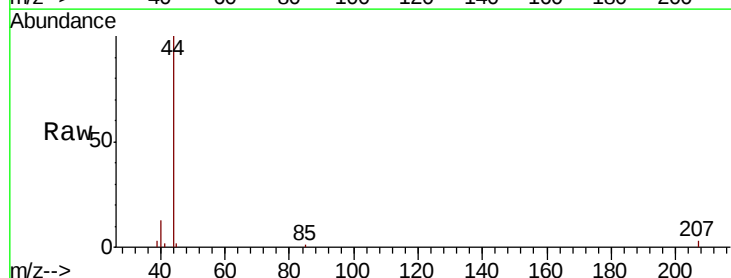
Acq: 25 Sep 2018 20:28

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

85 100

87 0.0 17.0 50.9#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.03

60

50

40

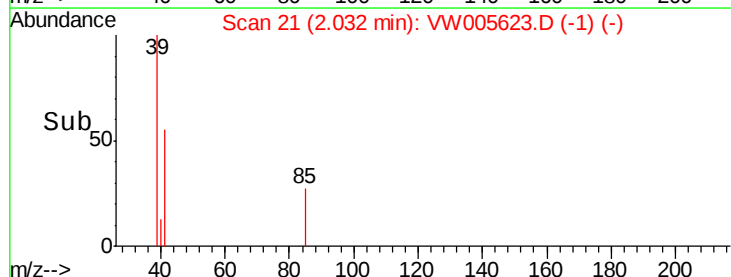
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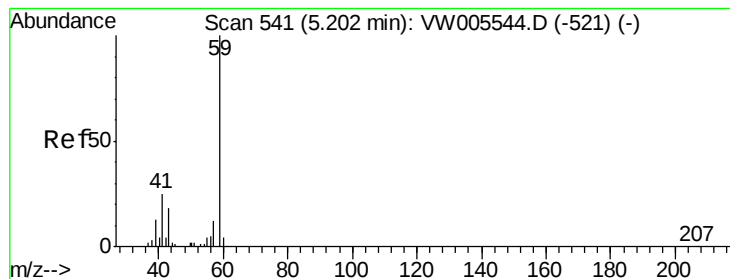
20

10

0

Time--> 2.01 2.02 2.03 2.04 2.05





#11

Tert butyl alcohol

Concen: 3.073 ug/l

RT: 5.21 min Scan# 543

Delta R.T. 0.01 min

Lab File: VW005623.D

Acq: 25 Sep 2018 20:28

Instrument :

MSVOA_W

ClientSampled :

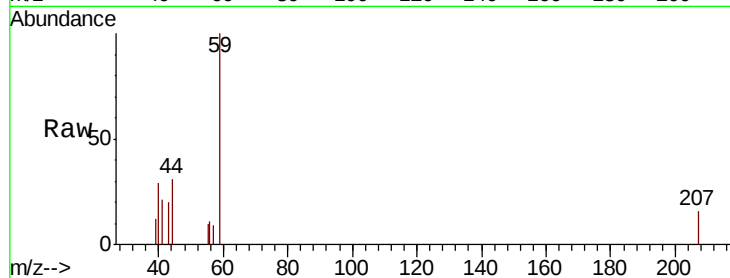
EP1-Q1-H2

Tgt Ion: 59 Resp: 977

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.21

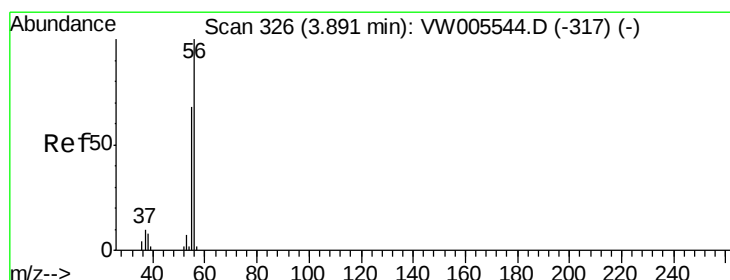
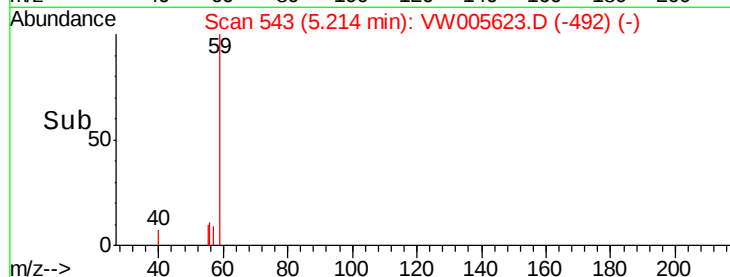
600

400

200

0

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.64 min Scan# 284

Delta R.T. -0.26 min

Lab File: VW005623.D

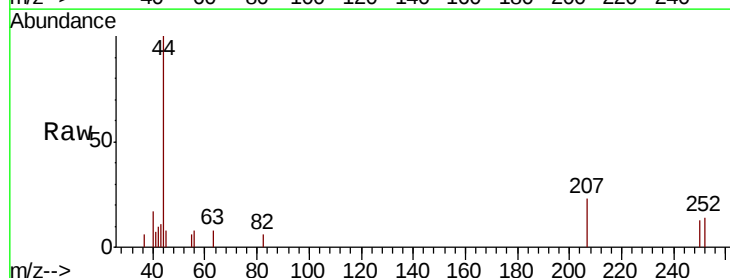
Acq: 25 Sep 2018 20:28

Tgt Ion: 56 Resp: 49

Ion Ratio Lower Upper

56 100

55 189.8 57.8 86.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

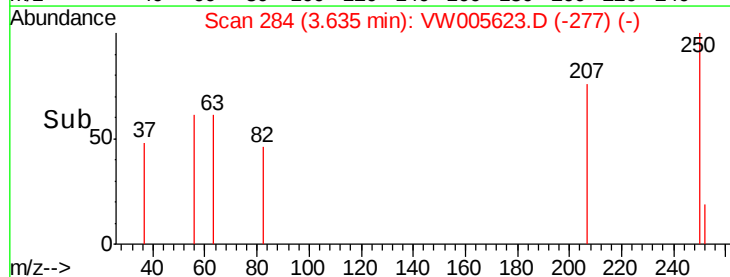
3.64

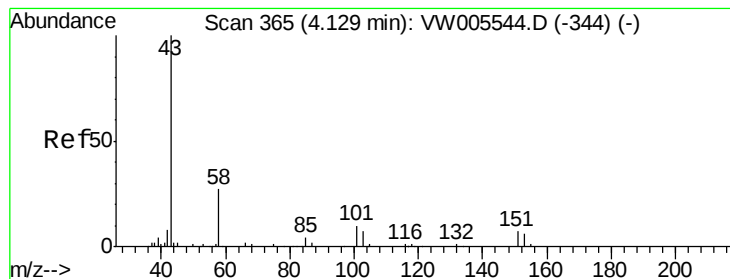
100

50

0

Time-->





#16

Acetone

Concen: 123.850 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW005623.D

Acq: 25 Sep 2018 20:28

Instrument :

MSVOA_W

ClientSampleId :

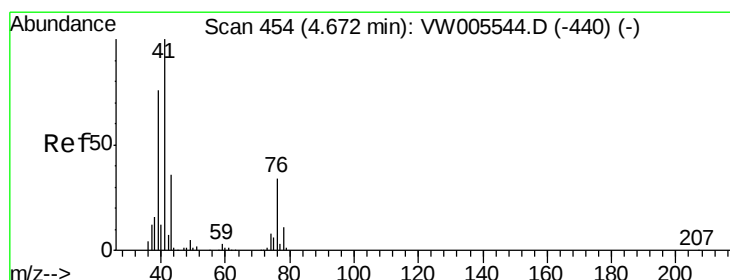
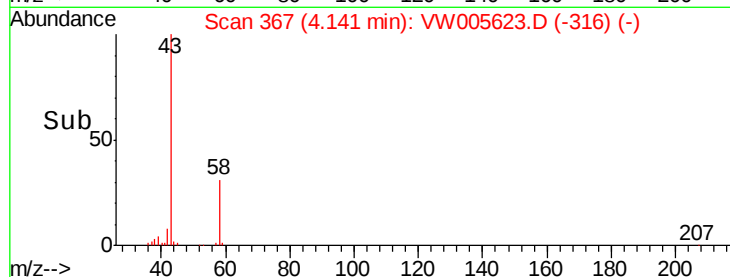
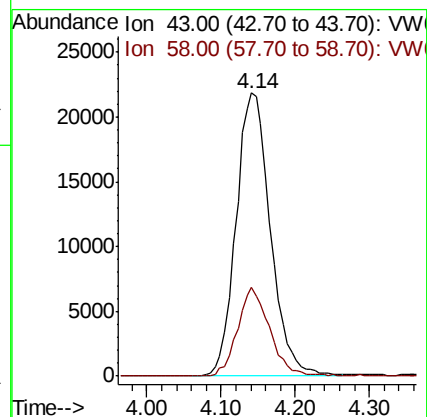
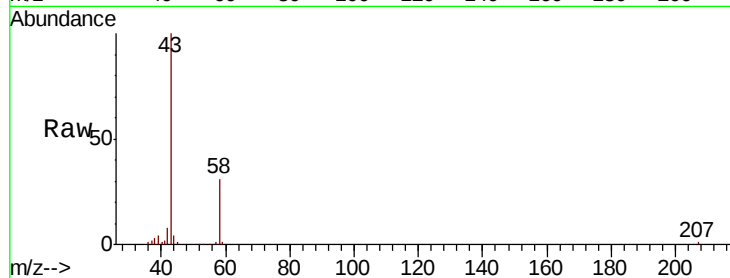
EP1-Q1-H2

Tgt Ion: 43 Resp: 70652

Ion Ratio Lower Upper

43 100

58 31.5 21.8 32.8



#18

Methyl Acetate

Concen: 13.429 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW005623.D

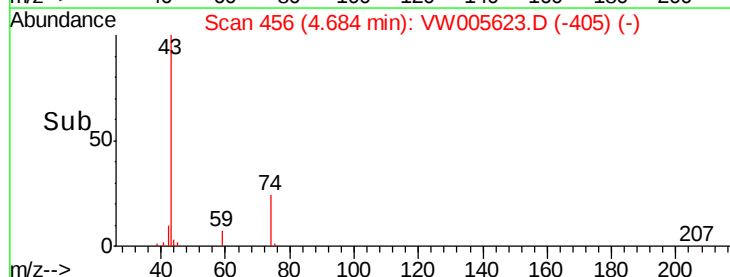
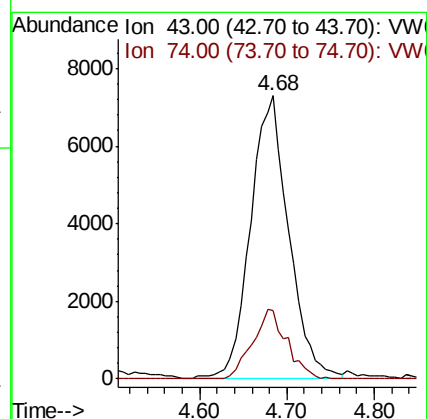
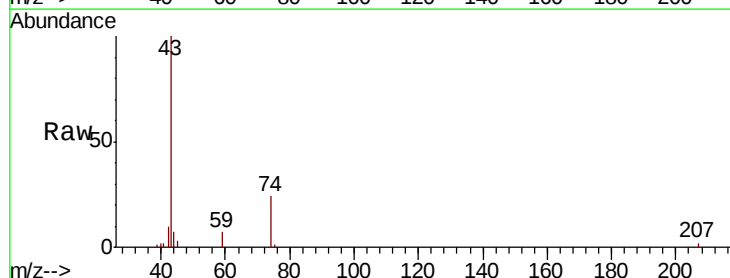
Acq: 25 Sep 2018 20:28

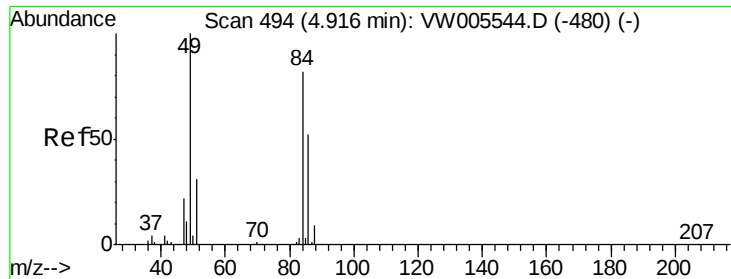
Tgt Ion: 43 Resp: 22241

Ion Ratio Lower Upper

43 100

74 21.9 19.2 28.8

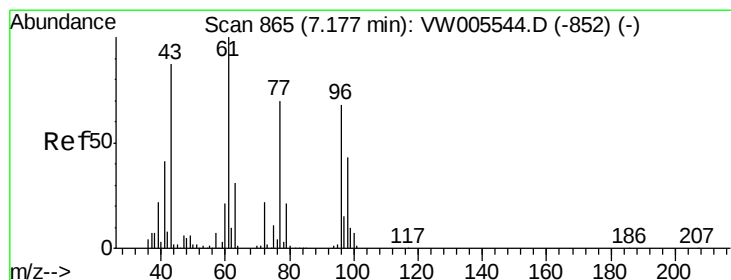
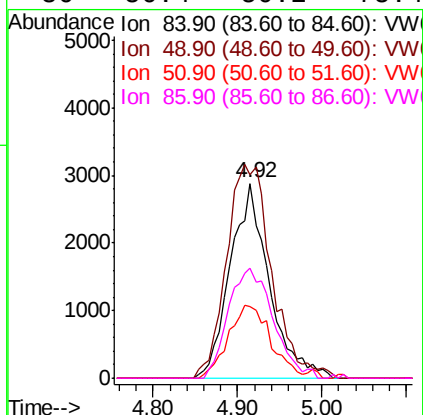
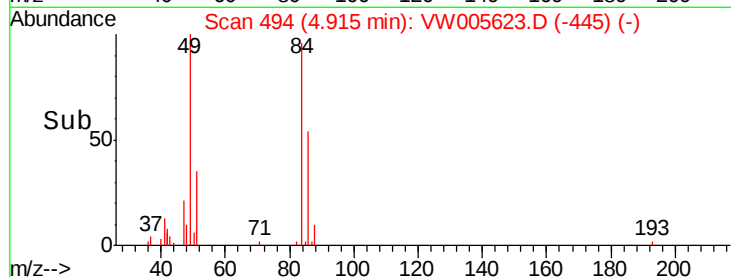
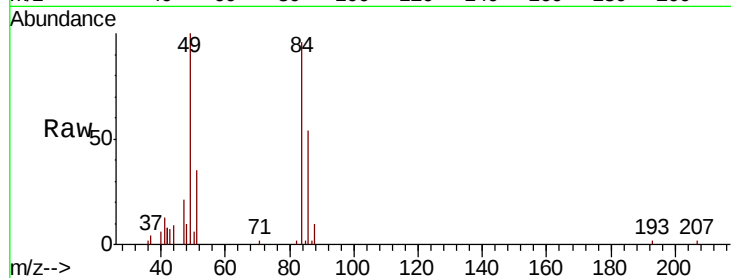




#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

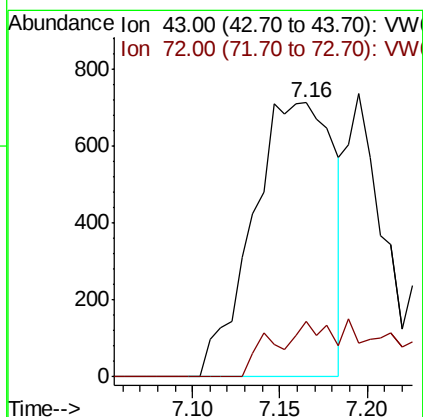
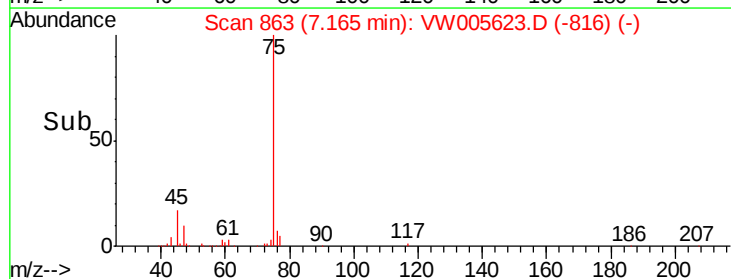
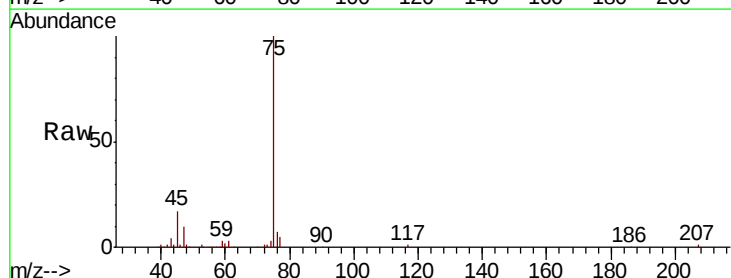
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H2

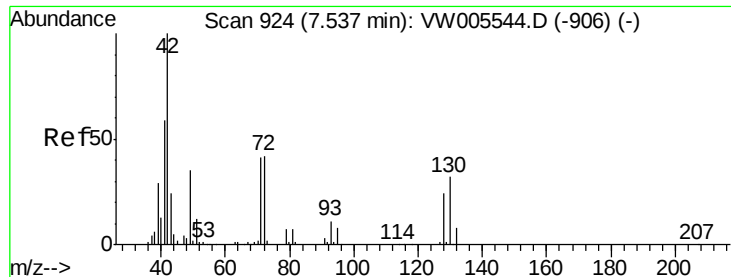
Tgt Ion: 84 Resp: 9037
Ion Ratio Lower Upper
84 100
49 104.6 97.0 145.6
51 36.8 30.2 45.2
86 56.4 50.2 75.4



#25
2-Butanone
Concen: 2.708 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion: 43 Resp: 2298
Ion Ratio Lower Upper
43 100
72 20.4 19.9 29.9

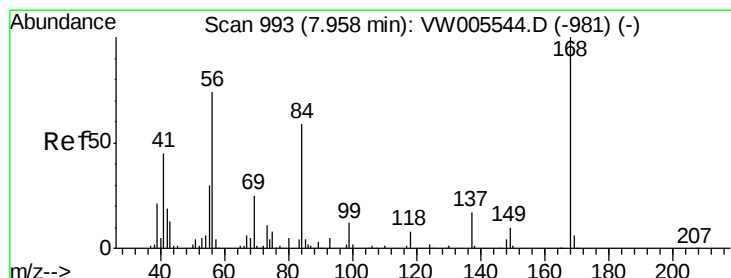
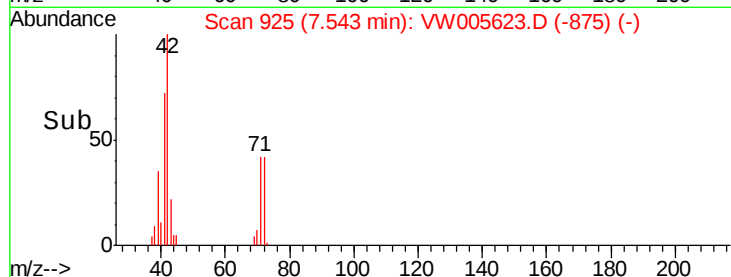
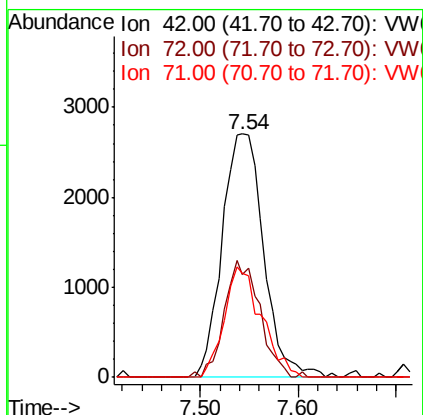
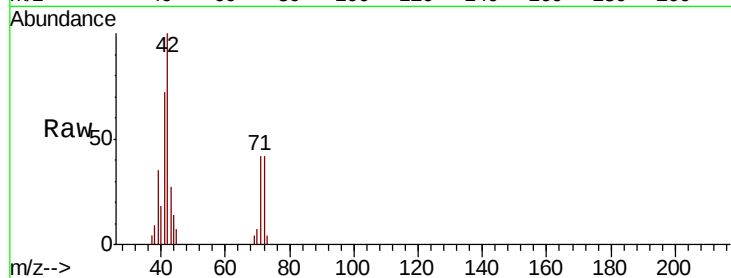




#29
Tetrahydrofuran
Concen: 15.034 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

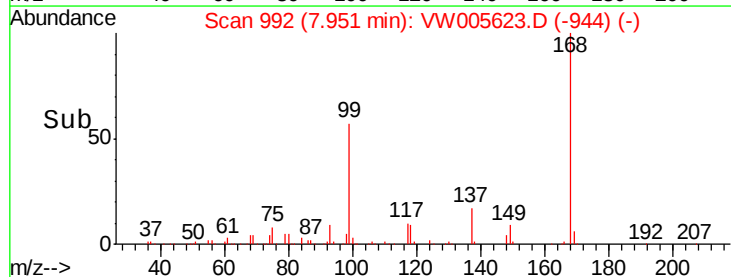
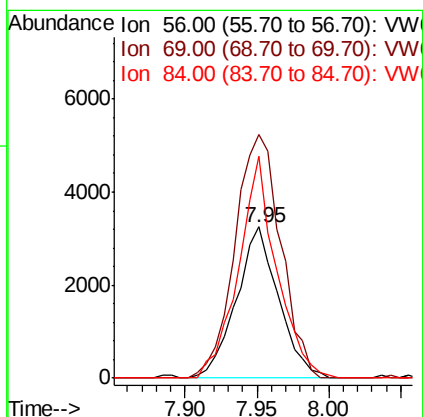
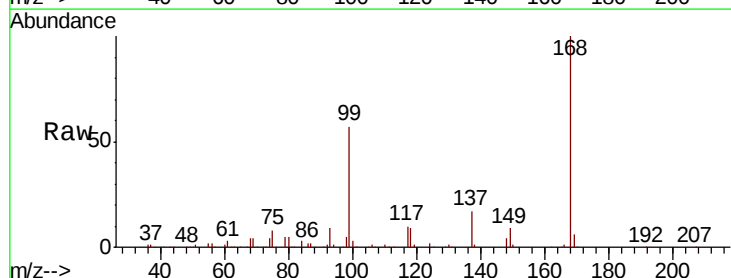
Instrument :
MSVOA_W
ClientSampled :
EP1-Q1-H2

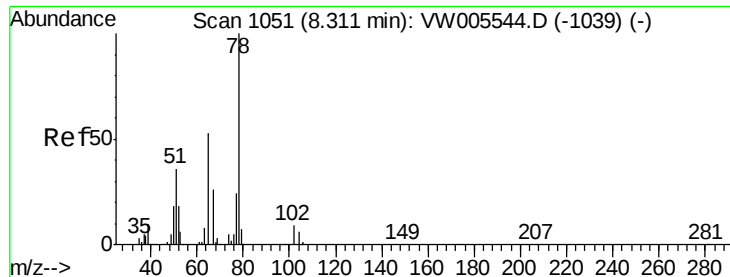
Tgt Ion: 42 Resp: 7971
Ion Ratio Lower Upper
42 100
72 40.7 33.6 50.4
71 40.6 31.8 47.6



#31
Cyclohexane
Concen: 1.219 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion: 56 Resp: 6604
Ion Ratio Lower Upper
56 100
69 161.0 27.0 40.4#
84 147.1 64.2 96.4#

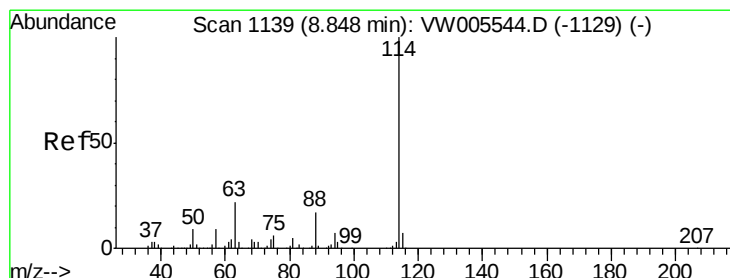
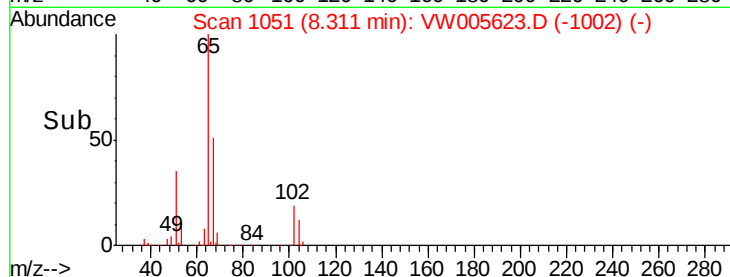
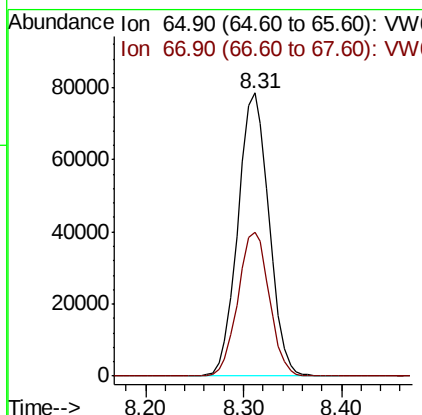
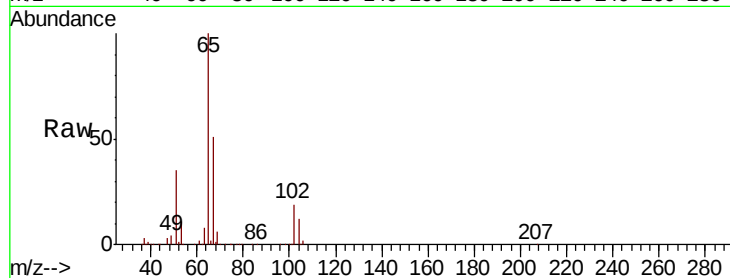




#33
 1,2-Dichloroethane-d4
 Concen: 49.428 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

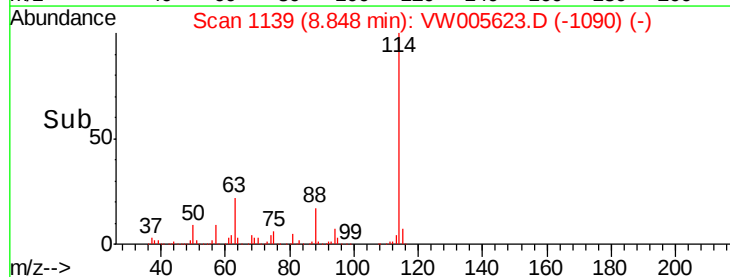
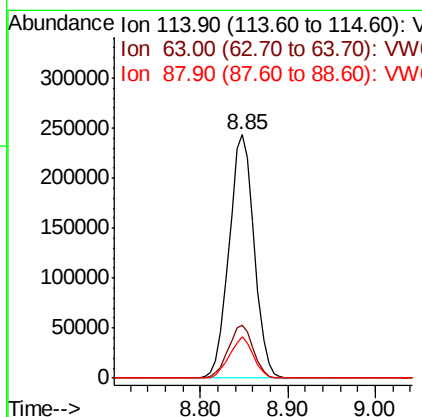
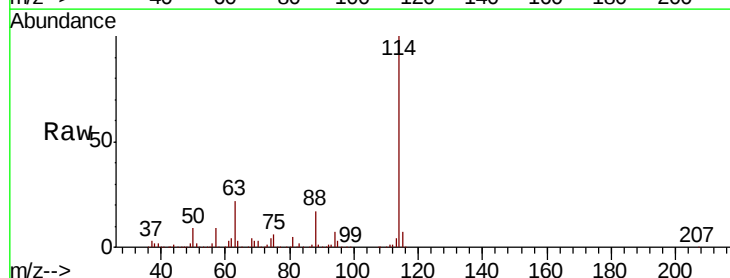
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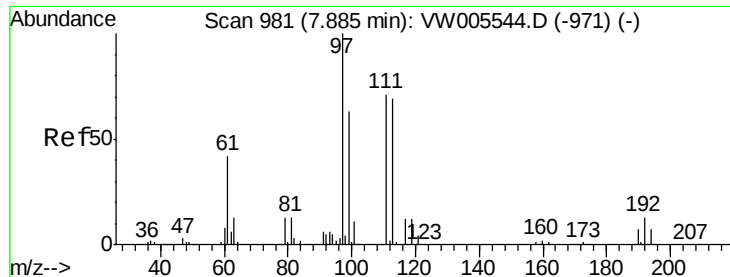
Tgt Ion: 65 Resp: 172720
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

Tgt Ion: 114 Resp: 484235
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.0
 88 16.8 0.0 33.0

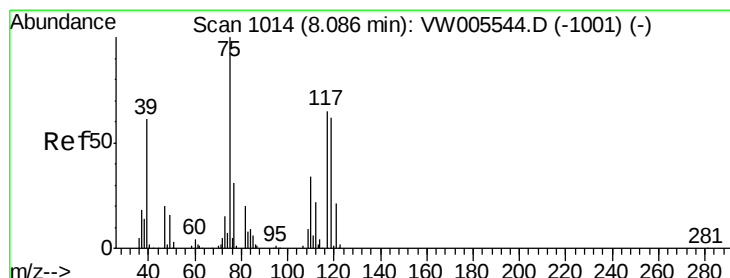
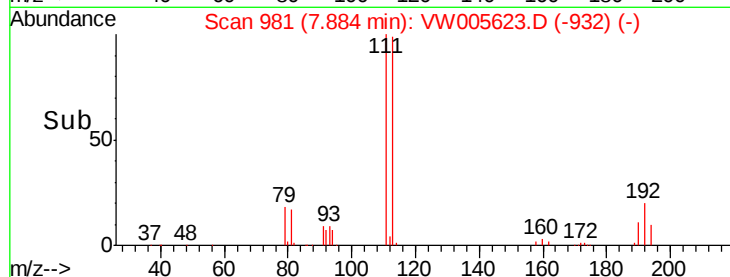
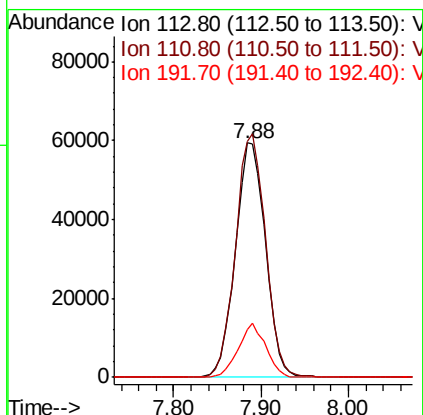
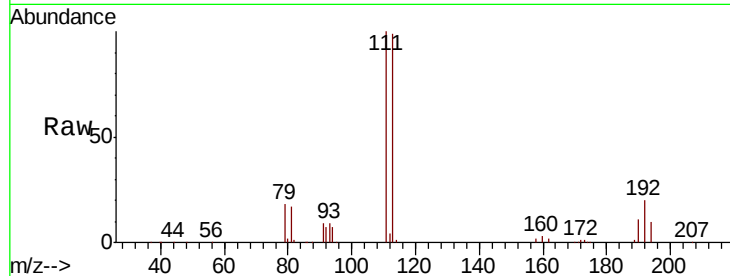




#35
 Dibromofluoromethane
 Concen: 46.739 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

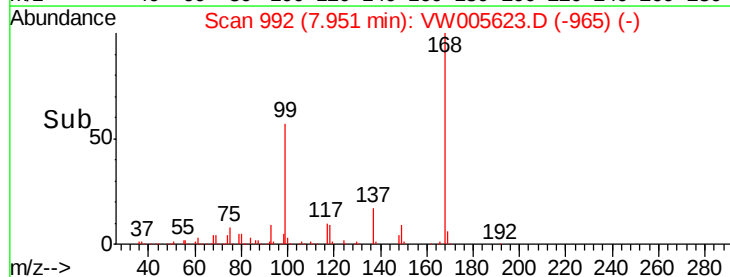
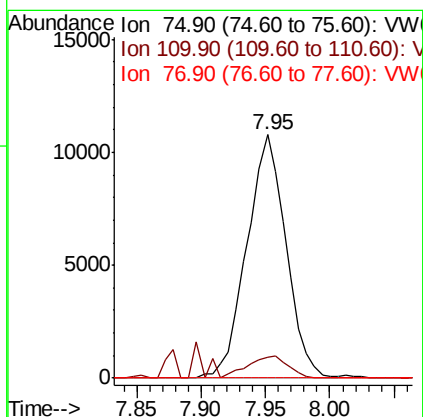
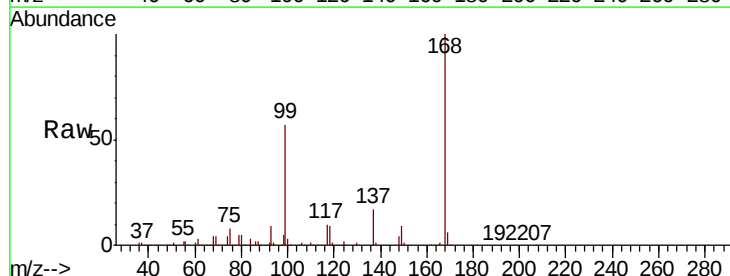
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 EP1-Q1-H2

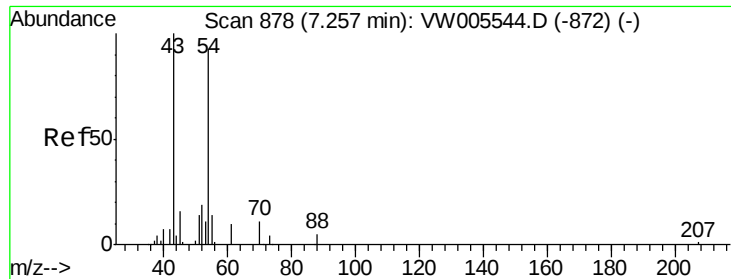
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.6	123.8
192	21.1	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.643 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.0	50.9#
77	0.0	24.8	37.2#

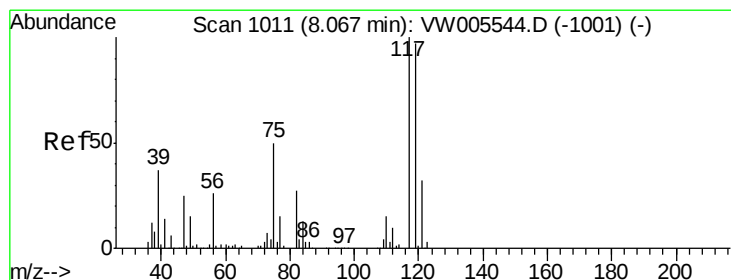
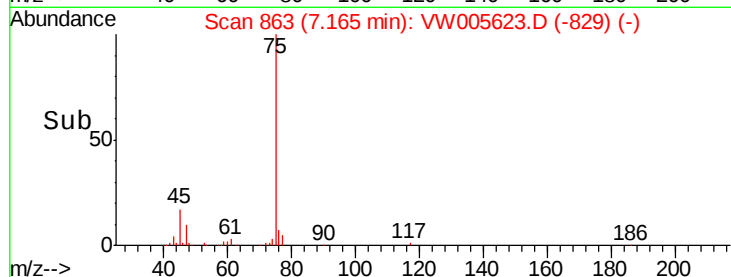
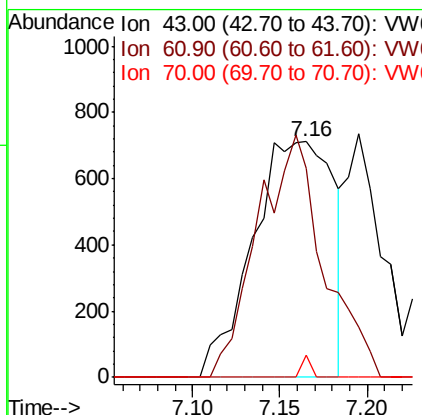
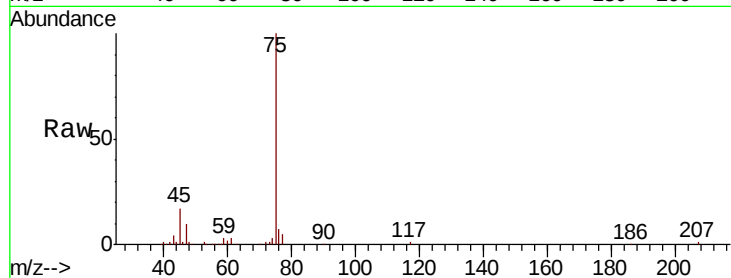




#37
 Ethyl Acetate
 Concen: 1.120 ug/l
 RT: 7.16 min Scan# 863
 Delta R.T. -0.09 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

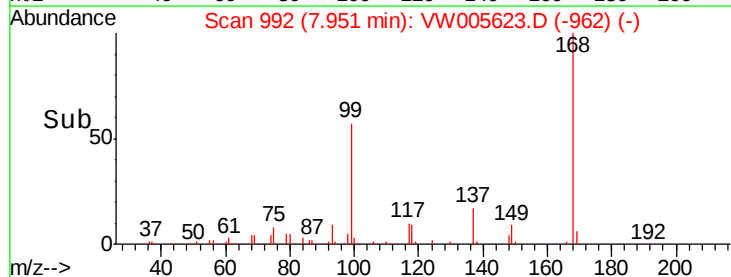
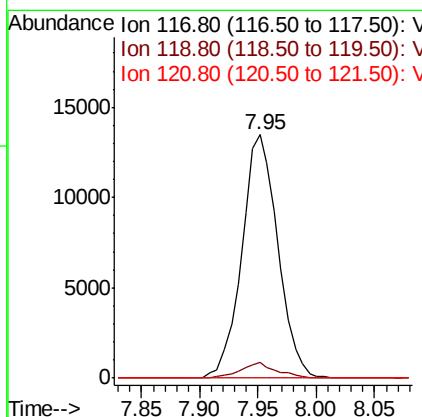
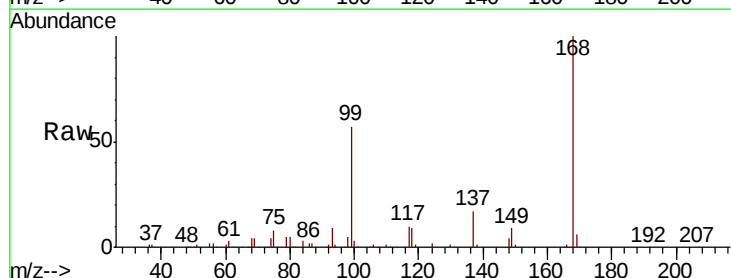
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H2

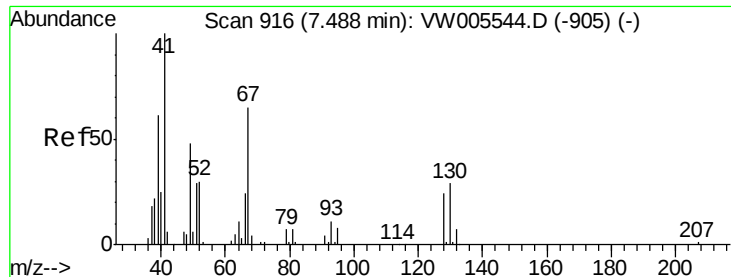
Tgt Ion: 43 Resp: 2298
 Ion Ratio Lower Upper
 43 100
 61 83.9 10.4 15.6#
 70 1.1 8.2 12.2#



#38
 Carbon Tetrachloride
 Concen: 5.551 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

Tgt Ion: 117 Resp: 28995
 Ion Ratio Lower Upper
 117 100
 119 6.7 77.6 116.4#
 121 0.0 25.7 38.5#

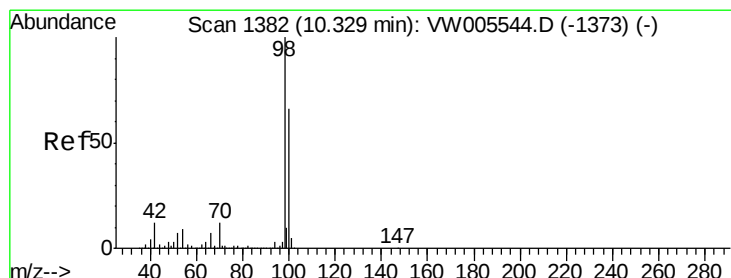
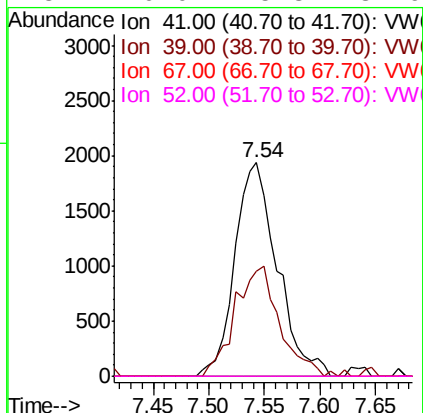
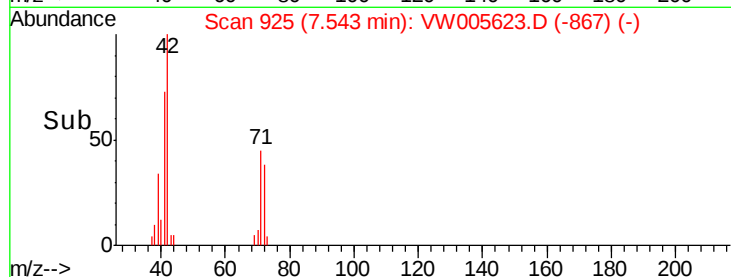
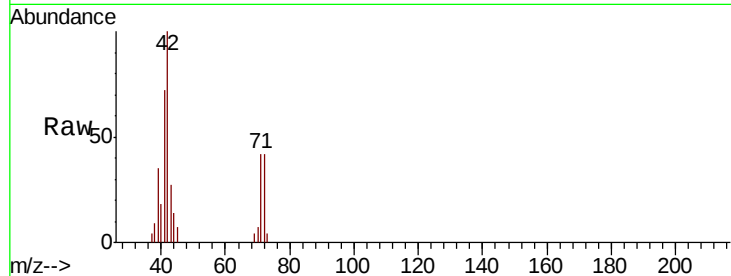




#41
Methacrylonitrile
Concen: 4.388 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.05 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

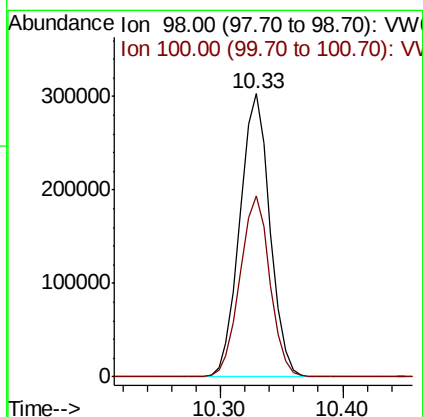
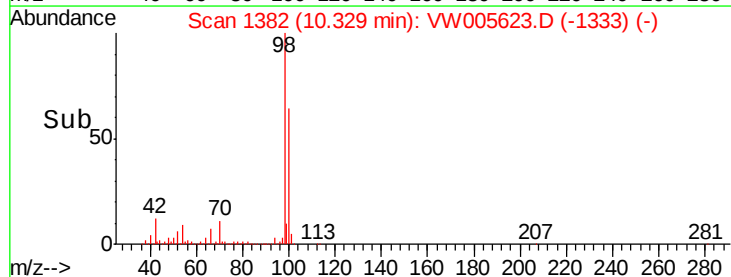
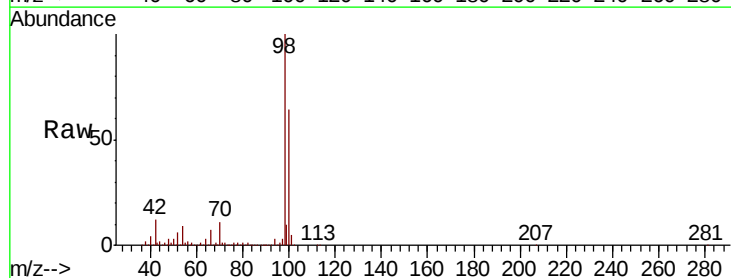
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H2

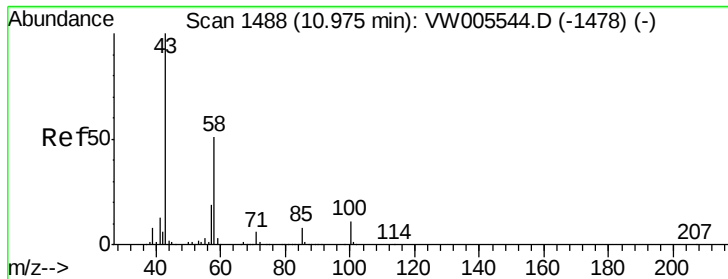
Tgt Ion: 41 Resp: 5122
Ion Ratio Lower Upper
41 100
39 53.7 45.4 68.2
67 0.0 55.2 82.8#
52 0.0 25.3 37.9#



#50
Toluene-d8
Concen: 41.637 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion: 98 Resp: 516272
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4

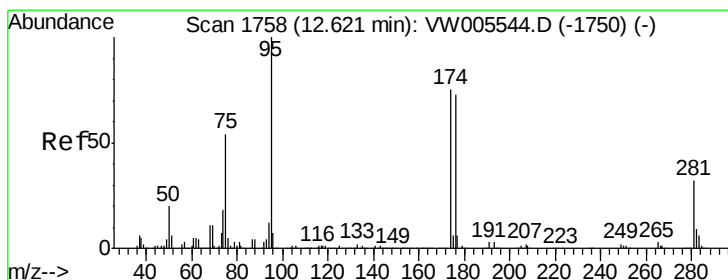
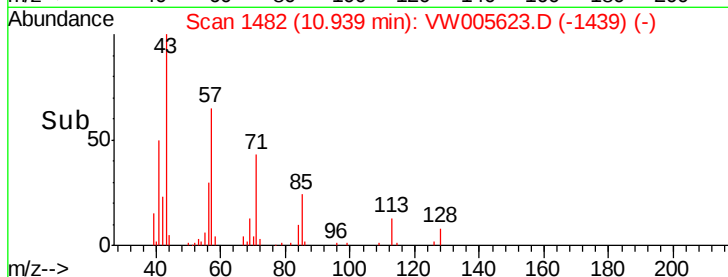
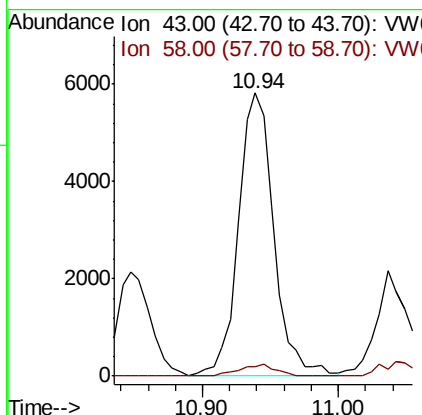
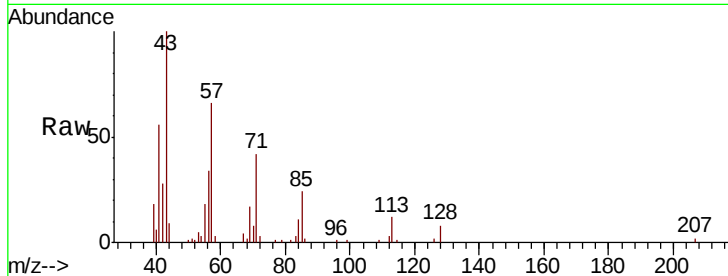




#59
2-Hexanone
Concen: 7.647 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

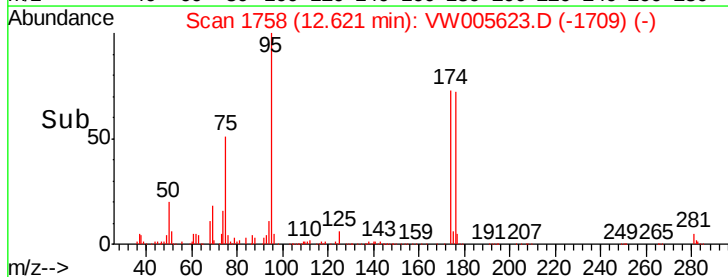
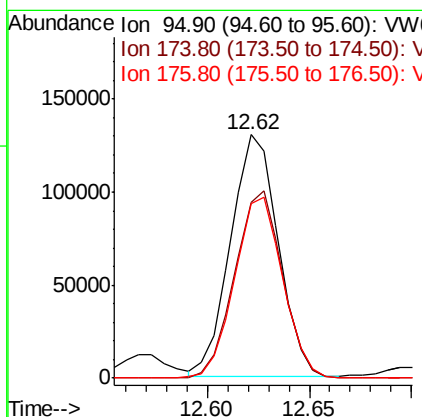
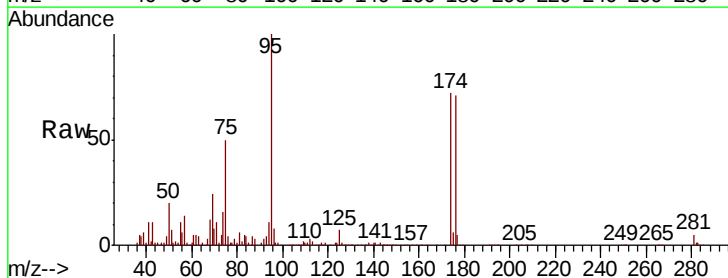
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H2

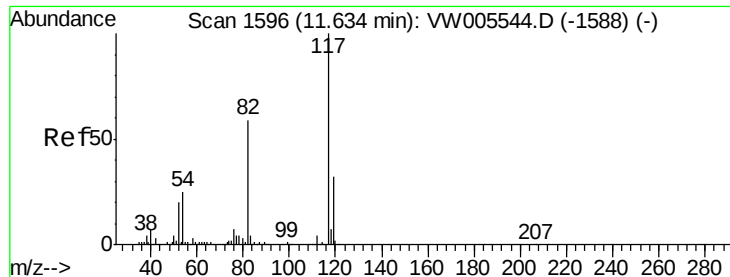
Tgt Ion: 43 Resp: 10552
Ion Ratio Lower Upper
43 100
58 4.3 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 45.886 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion: 95 Resp: 210526
Ion Ratio Lower Upper
95 100
174 77.7 0.0 163.8
176 75.6 0.0 158.0

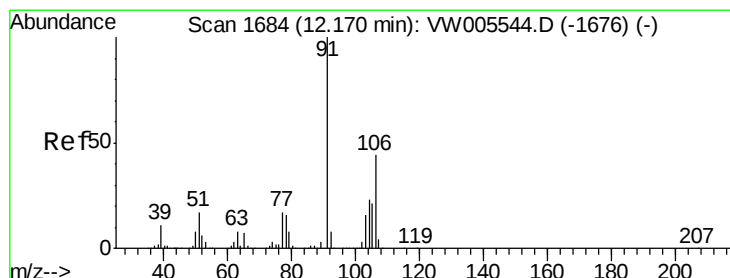
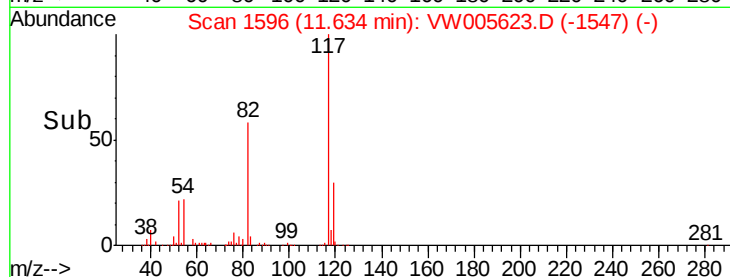
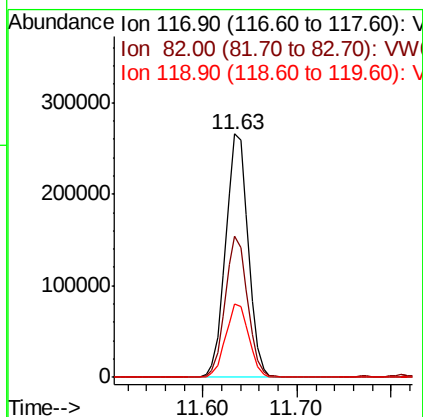
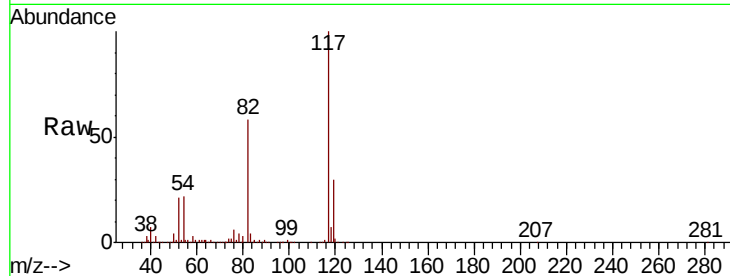




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

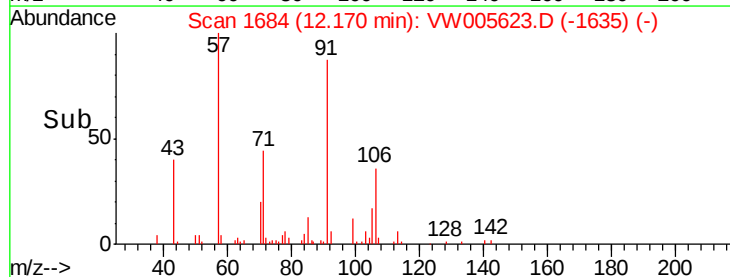
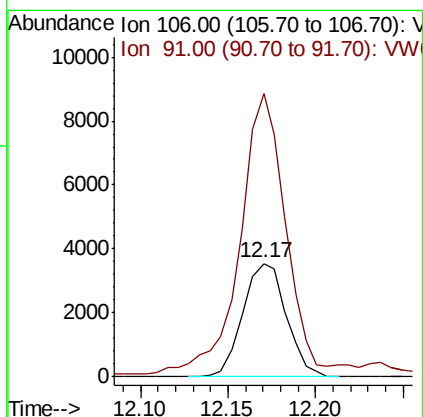
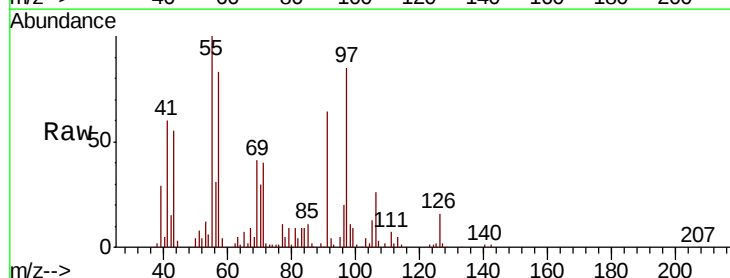
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H2

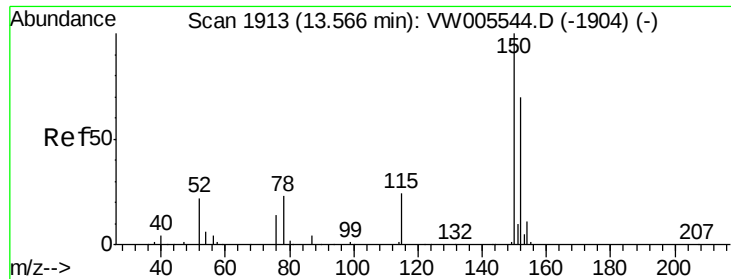
Tgt Ion:117 Resp: 440856
Ion Ratio Lower Upper
117 100
82 57.7 46.9 70.3
119 30.3 25.7 38.5



#69
o-Xylene
Concen: 1.041 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion:106 Resp: 6121
Ion Ratio Lower Upper
106 100
91 258.0 111.0 333.0



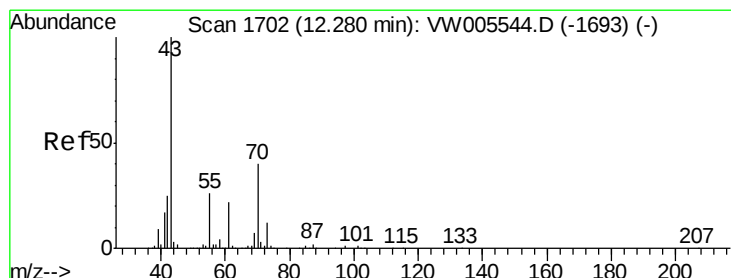
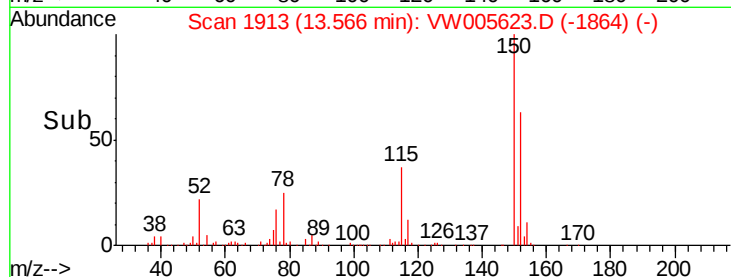
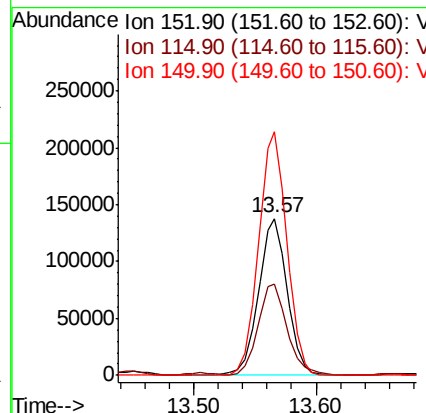
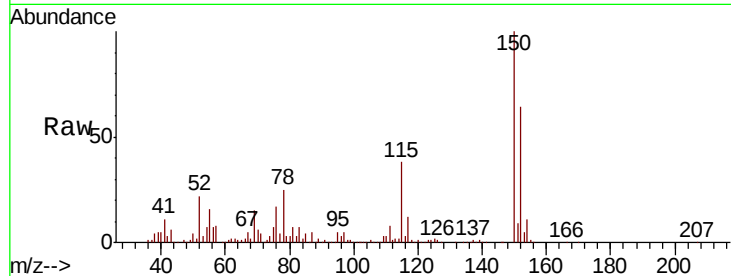


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Instrument :
MSVOA_W
ClientSampled :
EP1-Q1-H2

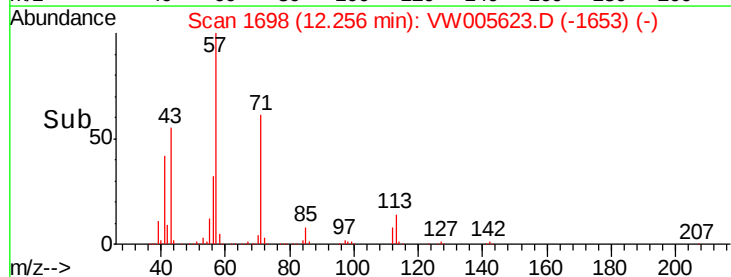
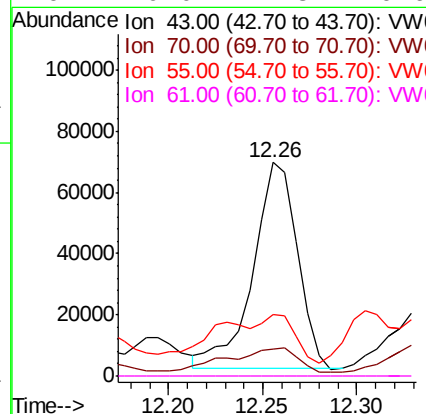
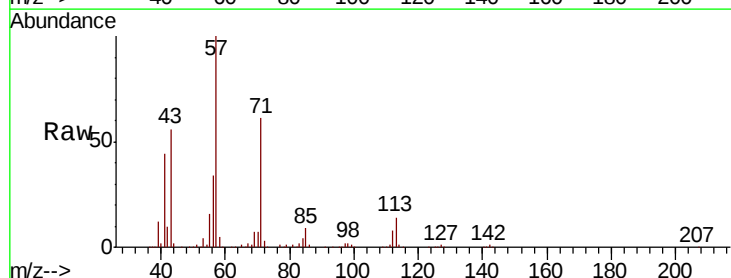
Tgt Ion:152 Resp: 224432
Ion Ratio Lower Upper
152 100
115 59.7 30.0 90.0
150 152.7 0.0 348.6

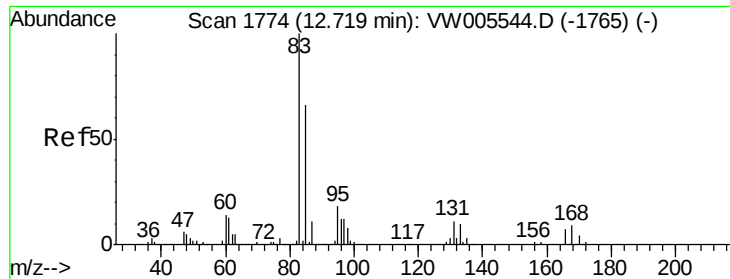


#74

N-ethyl acetate
Concen: 31.191 ug/l
RT: 12.26 min Scan# 1698
Delta R.T. -0.02 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion: 43 Resp: 109926
Ion Ratio Lower Upper
43 100
70 19.1 31.4 47.0#
55 18.6 20.9 31.3#
61 0.0 17.8 26.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 5.236 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW005623.D

Acq: 25 Sep 2018 20:28

Instrument :

MSVOA_W

ClientSampleId :

EP1-Q1-H2

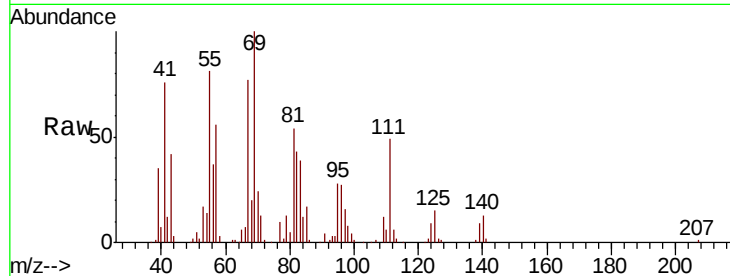
Tgt Ion: 83 Resp: 13535

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

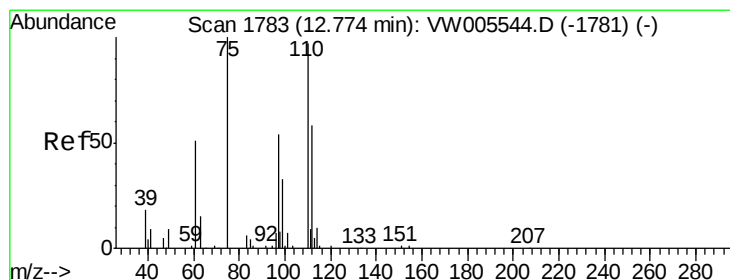
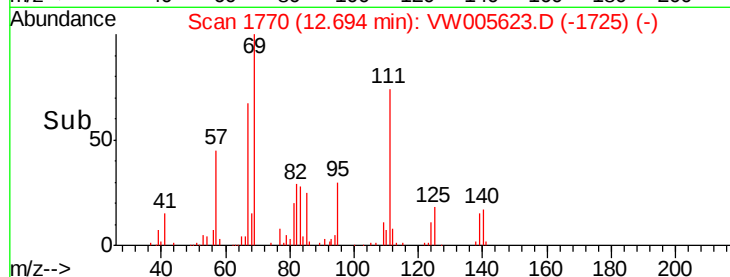
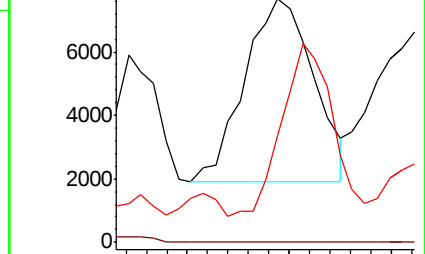
85 69.3 32.4 97.0



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: 55.709 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005623.D

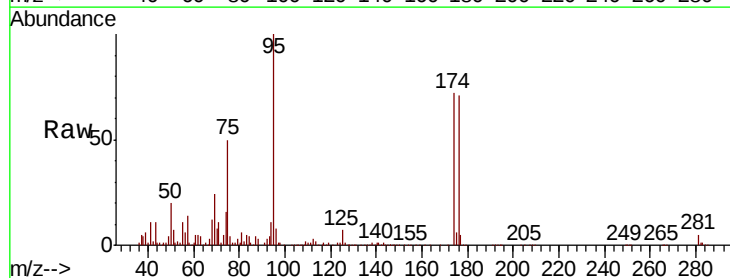
Acq: 25 Sep 2018 20:28

Tgt Ion: 75 Resp: 106579

Ion Ratio Lower Upper

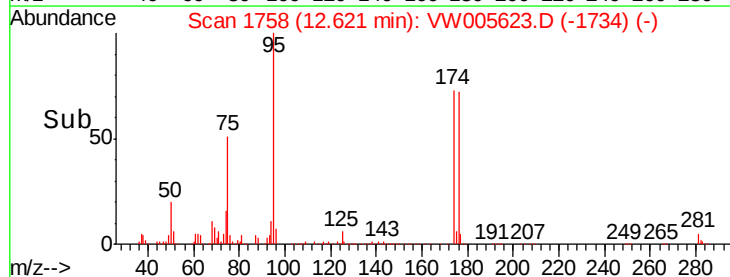
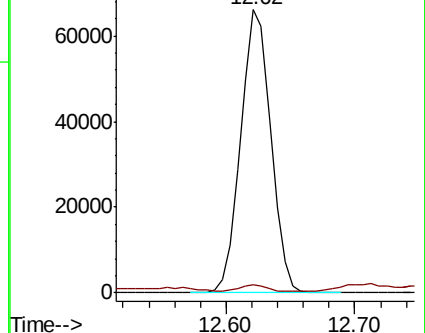
75 100

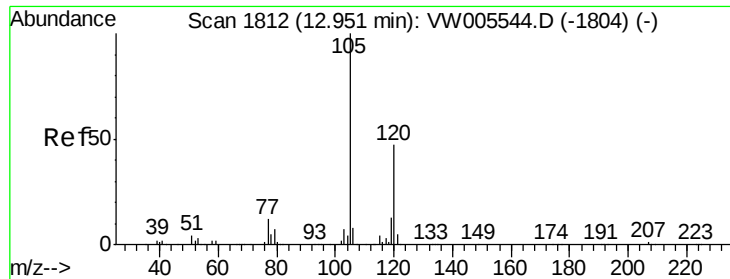
77 2.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

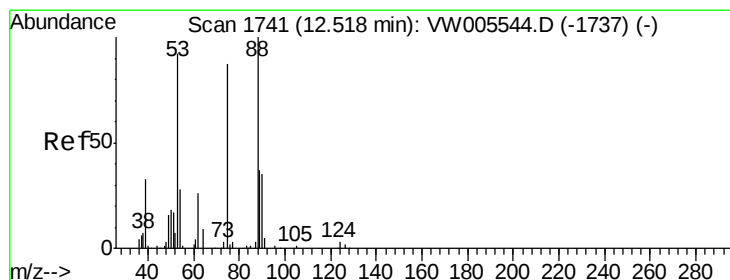
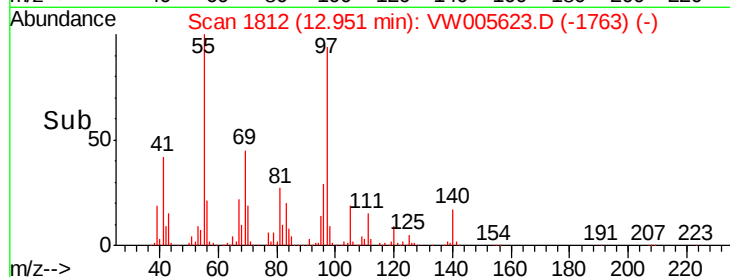
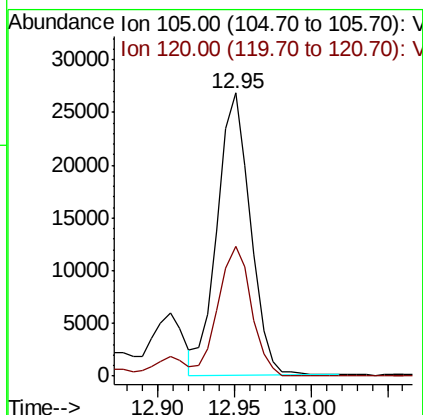
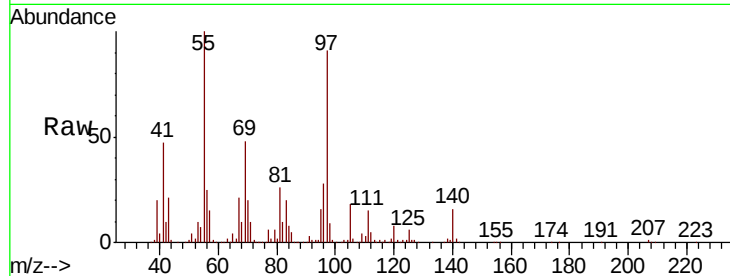




#80
 1,3,5-Trimethylbenzene
 Concen: 2.959 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

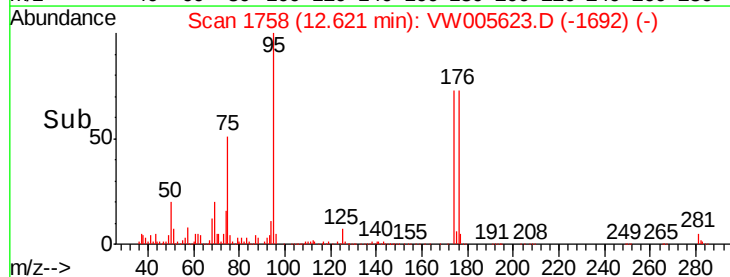
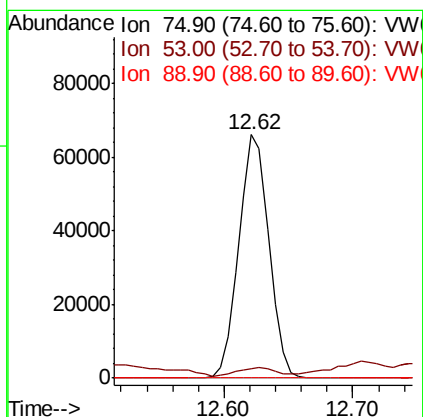
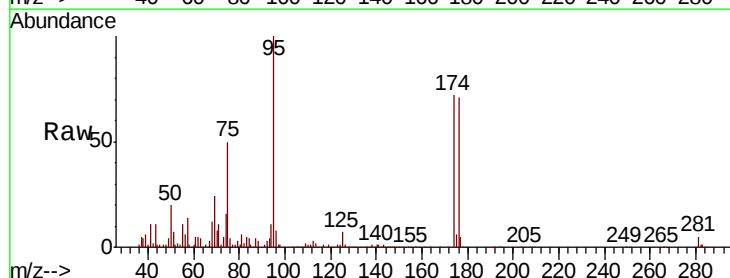
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H2

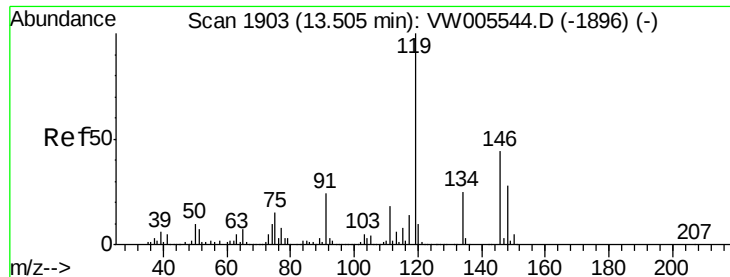
Tgt Ion: 105 Resp: 40050
 Ion Ratio Lower Upper
 105 100
 120 46.5 23.6 70.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 125.474 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

Tgt Ion: 75 Resp: 106579
 Ion Ratio Lower Upper
 75 100
 53 4.3 85.8 128.6#
 89 0.0 37.3 55.9#

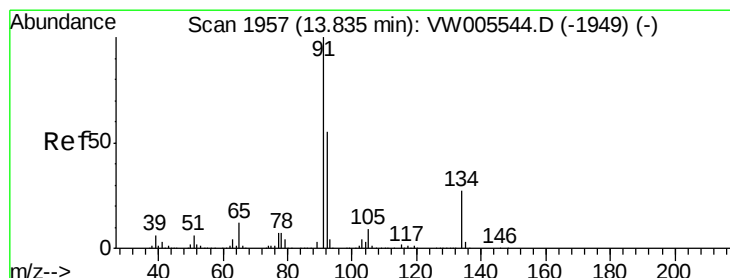
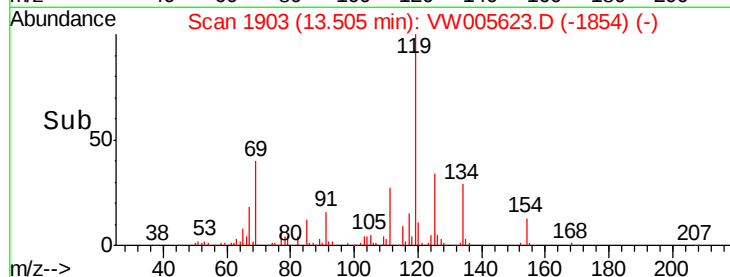
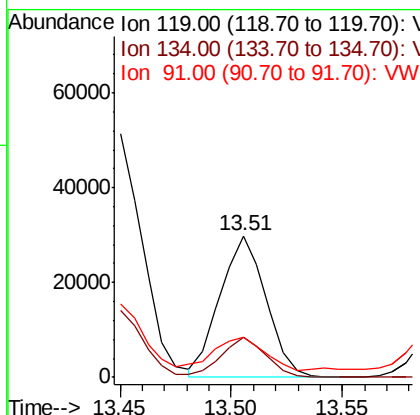
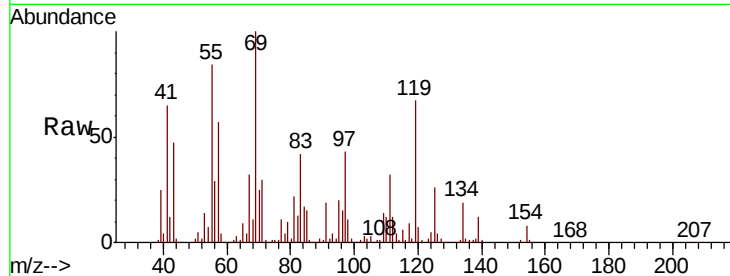




#86
 p-Isopropyltoluene
 Concen: 2.893 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

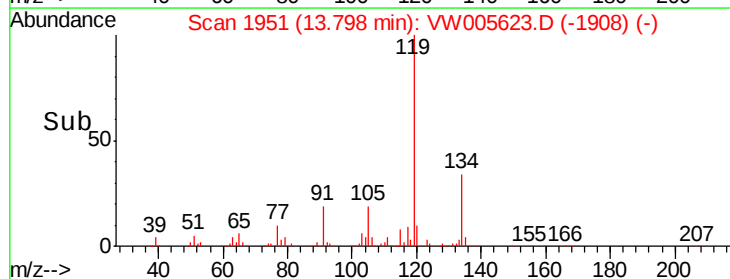
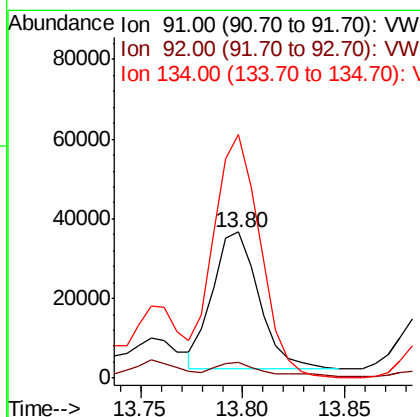
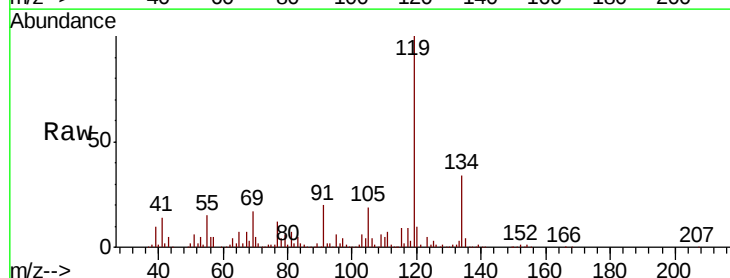
Instrument :
 MSVOA_W
 ClientSampled :
 EP1-Q1-H2

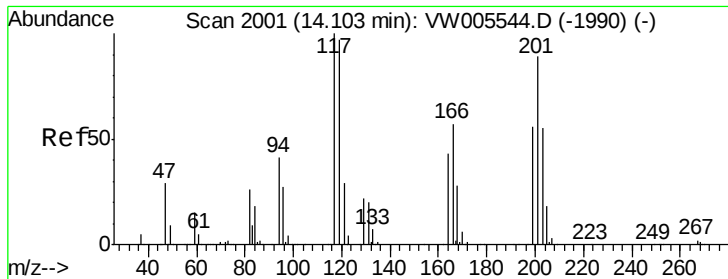
Tgt Ion: 119 Resp: 42755
 Ion Ratio Lower Upper
 119 100
 134 27.0 12.7 38.1
 91 24.7 12.2 36.4



#89
 n-Butylbenzene
 Concen: 3.876 ug/l
 RT: 13.80 min Scan# 1951
 Delta R.T. -0.04 min
 Lab File: VW005623.D
 Acq: 25 Sep 2018 20:28

Tgt Ion: 91 Resp: 54029
 Ion Ratio Lower Upper
 91 100
 92 11.9 26.5 79.5#
 134 179.1 12.9 38.7#

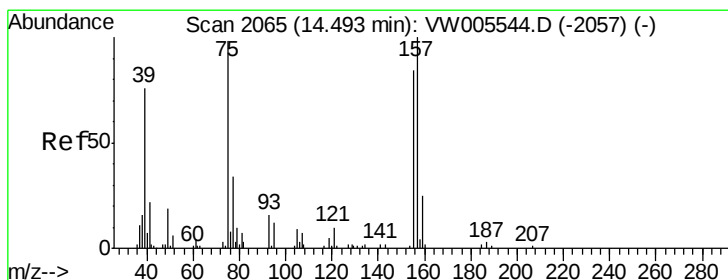
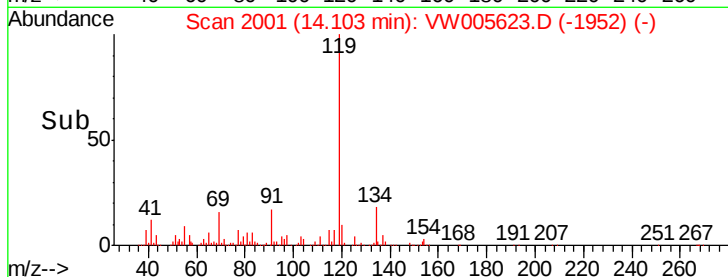
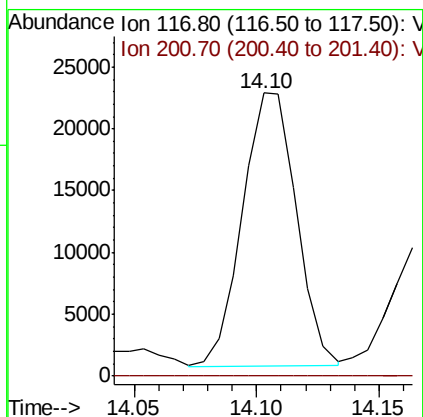
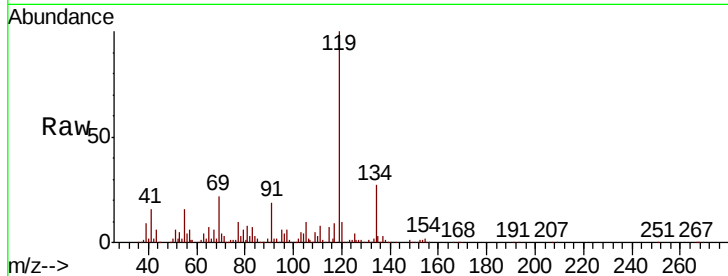




#90
Hexachloroethane
Concen: 12.717 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. -0.00 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H2

Tgt Ion: 117 Resp: 34068
Ion Ratio Lower Upper
117 100
201 0.0 42.8 128.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.231 ug/l
RT: 14.51 min Scan# 2068
Delta R.T. 0.02 min
Lab File: VW005623.D
Acq: 25 Sep 2018 20:28

Tgt Ion: 75 Resp: 2084
Ion Ratio Lower Upper
75 100
155 5.7 39.1 117.5#
157 0.0 50.8 152.4#

