

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092518\
 Data File : VW005619.D
 Acq On : 25 Sep 2018 18:44
 Operator : VA/AP
 Sample : J5066-09
 Misc : 4.83G/5ML/MSVOA_W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H4

Quant Time: Sep 26 04:16:04 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	297269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	504035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	442455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	255365	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	187401	53.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.02%	
35) Dibromofluoromethane	7.89	113	155391	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	
50) Toluene-d8	10.33	98	547729	42.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.88%	
62) 4-Bromofluorobenzene	12.62	95	274810	57.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.08%	

Target Compounds

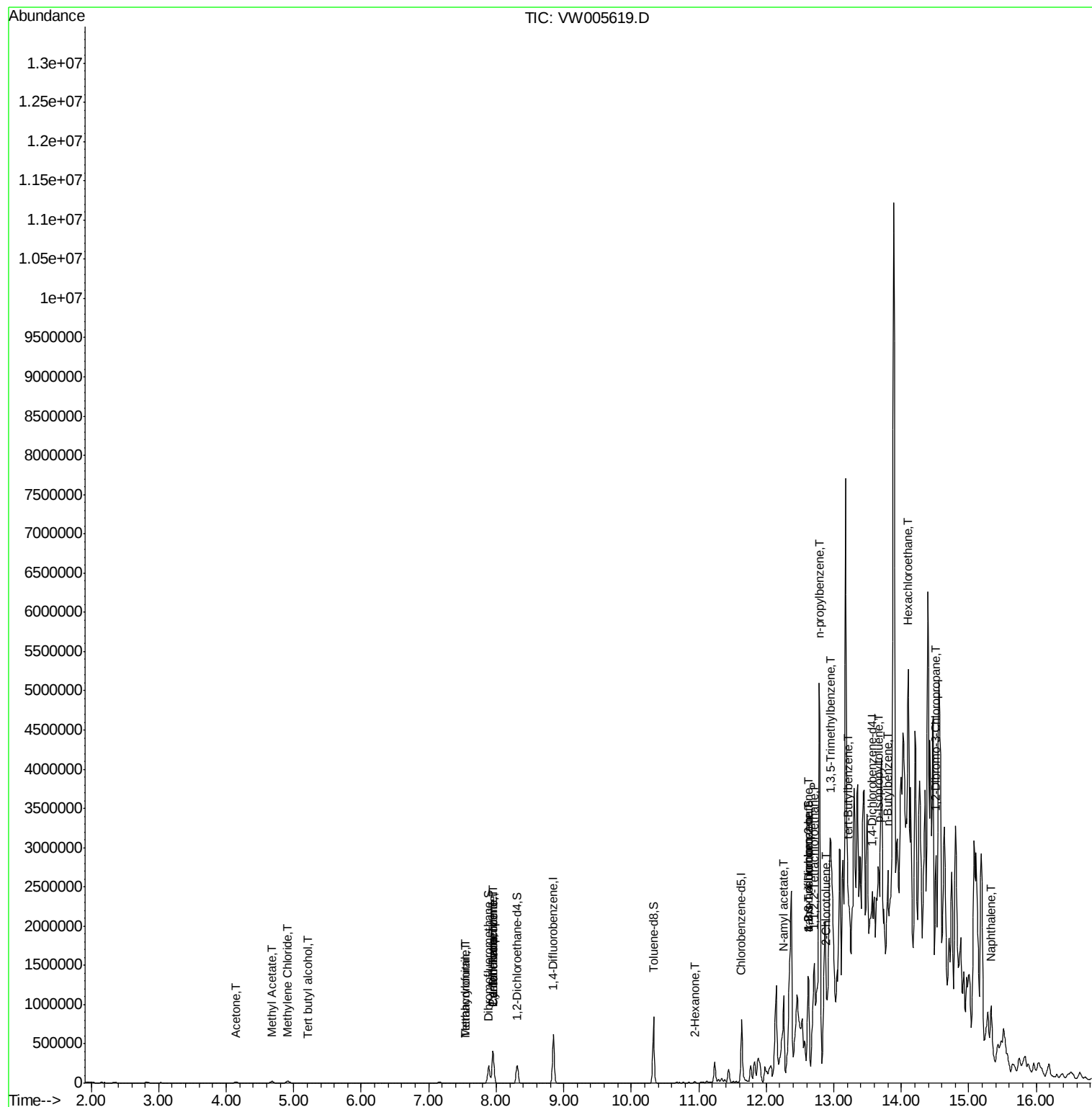
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	83	Below Cal	#	41
11) Tert butyl alcohol	5.20	59	639	1.174	ug/l #	72
13) Acrolein	3.89	56	19	Below Cal	#	13
16) Acetone	4.14	43	26931	41.029	ug/l	96
18) Methyl Acetate	4.68	43	39145	23.584	ug/l	97
20) Methylene Chloride	4.92	84	19544	2.595	ug/l	97
29) Tetrahydrofuran	7.53	42	4401	8.282	ug/l	97
31) Cyclohexane	7.95	56	6865	1.264	ug/l #	6
36) 1,1-Dichloropropene	7.95	75	23191	4.571	ug/l #	50
38) Carbon Tetrachloride	7.95	117	29453	5.417	ug/l #	17
41) Methacrylonitrile	7.54	41	2689	2.213	ug/l #	48
59) 2-Hexanone	10.94	43	7422	5.167	ug/l #	31
74) N-amyl acetate	12.26	43	260683	65.009	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.69	83	86606	29.443	ug/l #	93
76) 1,2,3-Trichloropropane	12.62	75	114254	52.487	ug/l #	100
78) n-propylbenzene	12.79	91	26573	1.239	ug/l #	53
79) 2-Chlorotoluene	12.90	91	22697	1.830	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.95	105	85820	5.573	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	114254	118.216	ug/l #	17
83) tert-Butylbenzene	13.21	119	76443	5.909	ug/l	84
86) p-Isopropyltoluene	13.66	119	517224	30.756	ug/l	94
89) n-Butylbenzene	13.80	91	106414	6.709	ug/l #	1
90) Hexachloroethane	14.10	117	83036	27.242	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.51	75	4865	8.681	ug/l #	8
95) Naphthalene	15.33	128	29533	3.285	ug/l #	1

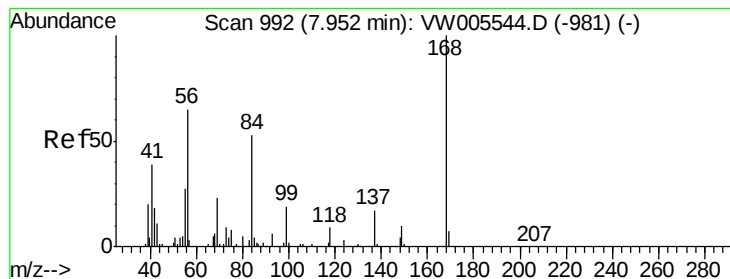
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 21 09:05:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_W

ClientSampled :

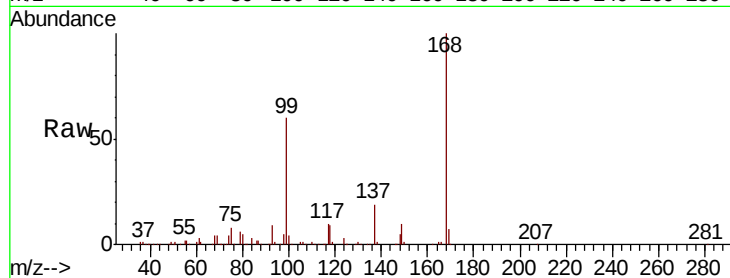
EP1-Q1-H4

Tgt Ion:168 Resp: 297269

Ion Ratio Lower Upper

168 100

99 60.4 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

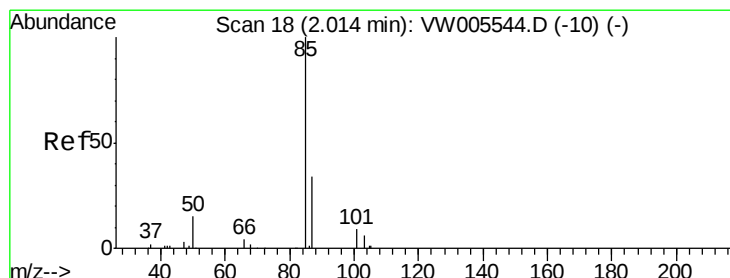
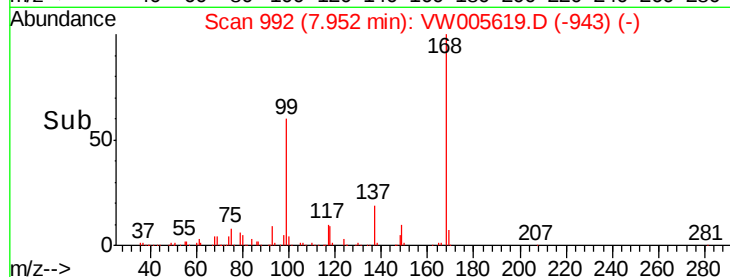
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW005619.D

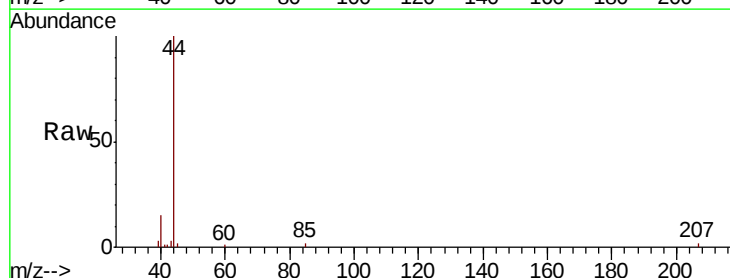
Acq: 25 Sep 2018 18:44

Tgt Ion: 85 Resp: 83

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

2.01

120

100

80

60

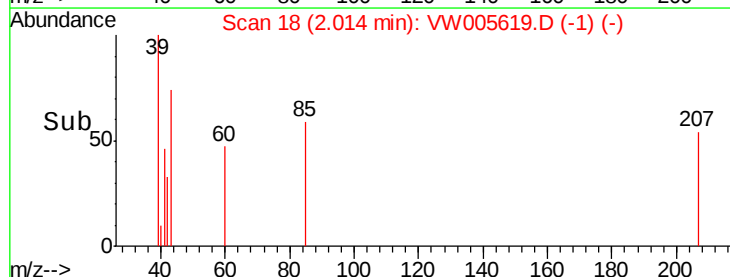
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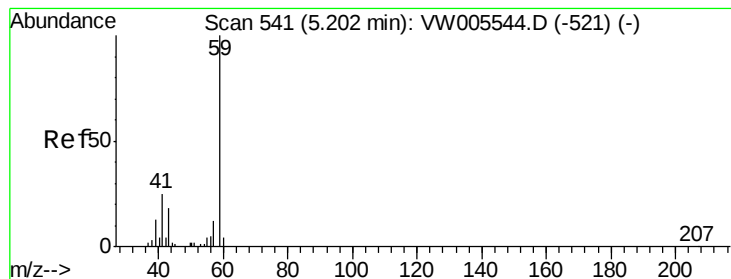
20

0

1.98 2.00 2.02 2.04

Time-->





#11

Tert butyl alcohol

Concen: 1.174 ug/l

RT: 5.20 min Scan# 540

Delta R.T. -0.01 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_W

ClientSampled :

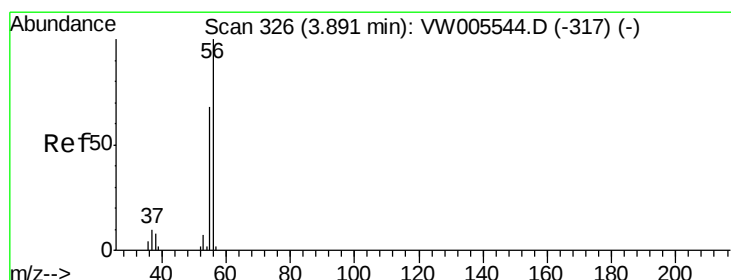
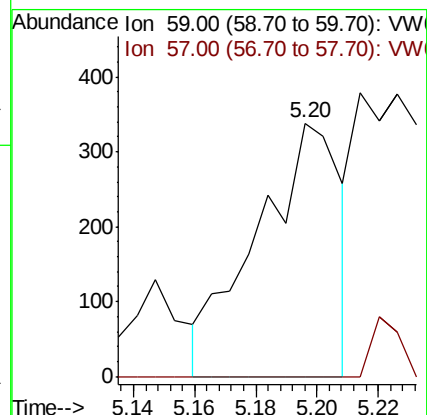
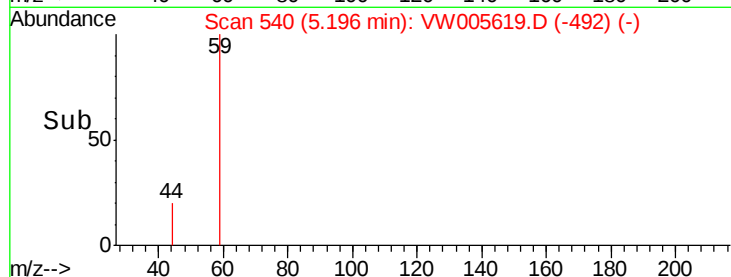
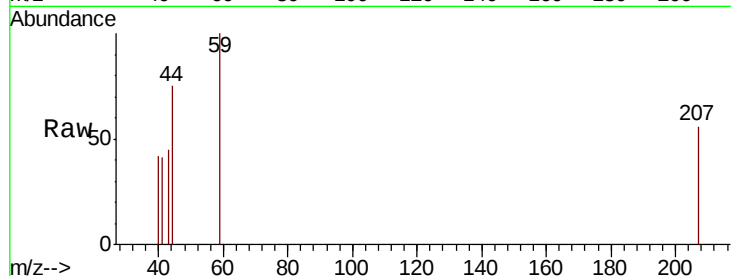
EP1-Q1-H4

Tgt Ion: 59 Resp: 639

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: Below Cal

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW005619.D

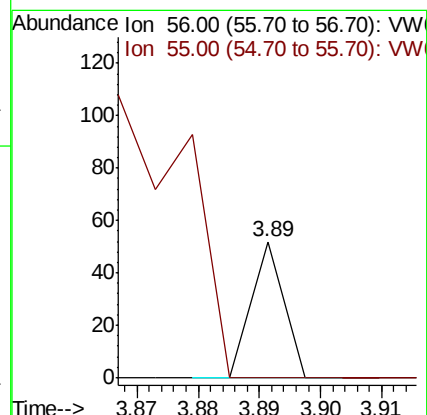
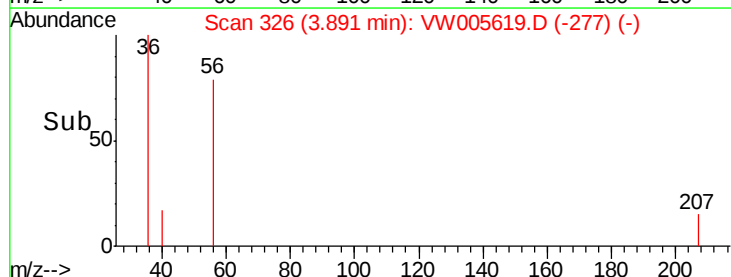
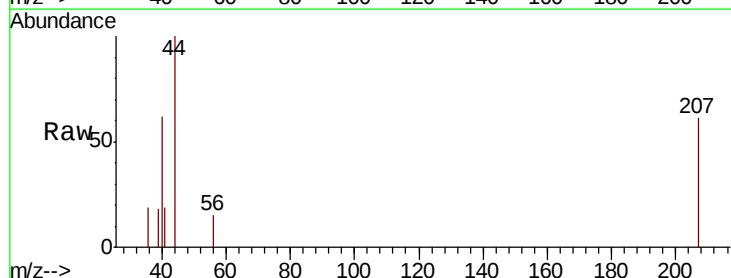
Acq: 25 Sep 2018 18:44

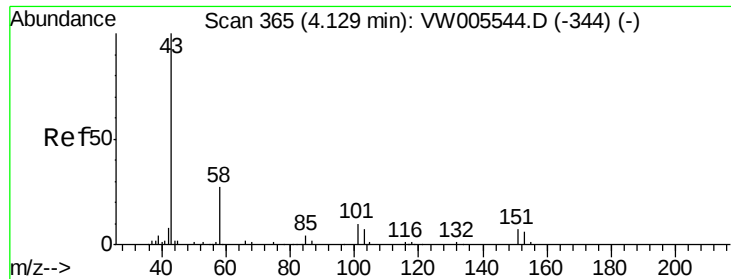
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.8#





#16

Acetone

Concen: 41.029 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_W

ClientSampled :

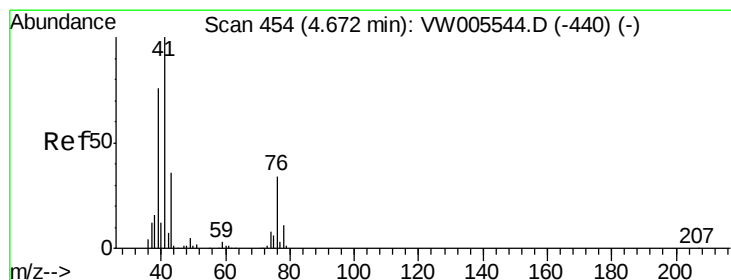
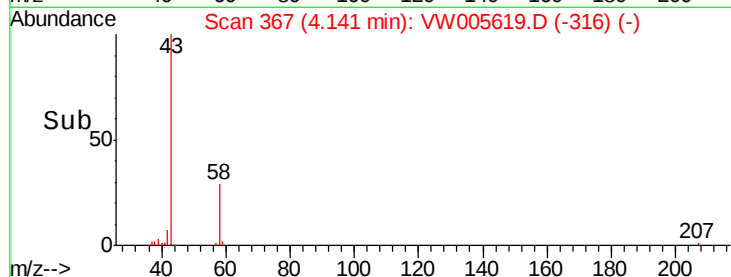
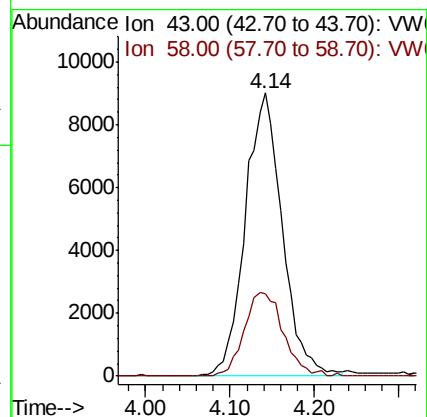
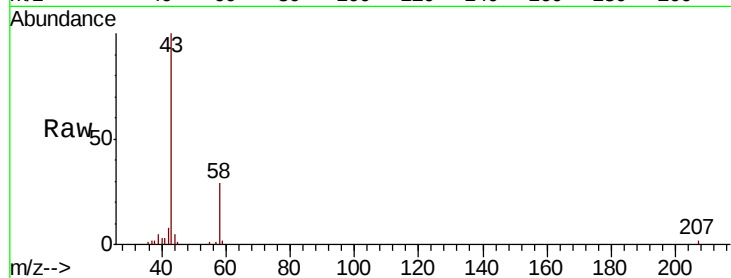
EP1-Q1-H4

Tgt Ion: 43 Resp: 26931

Ion Ratio Lower Upper

43 100

58 29.3 21.8 32.8



#18

Methyl Acetate

Concen: 23.584 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW005619.D

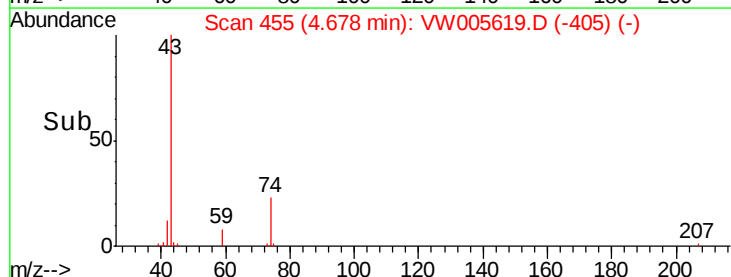
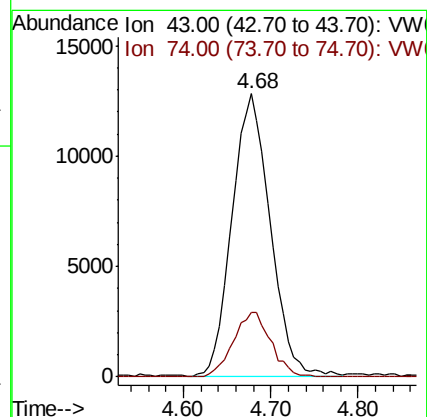
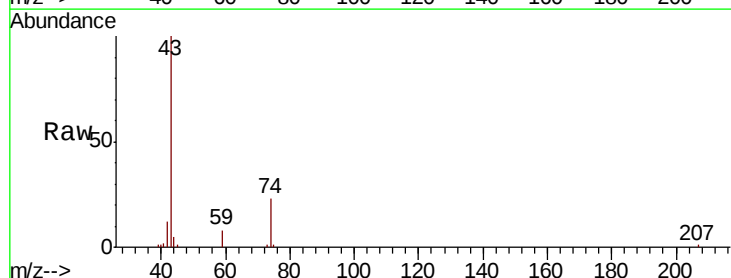
Acq: 25 Sep 2018 18:44

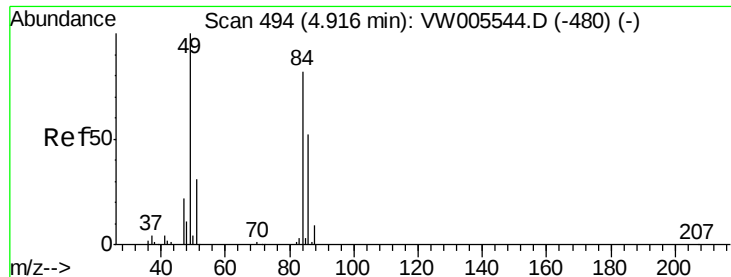
Tgt Ion: 43 Resp: 39145

Ion Ratio Lower Upper

43 100

74 22.3 19.2 28.8

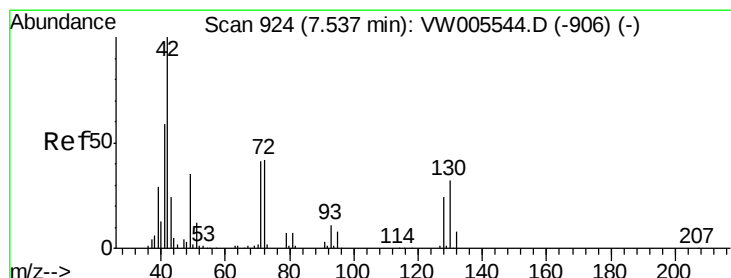
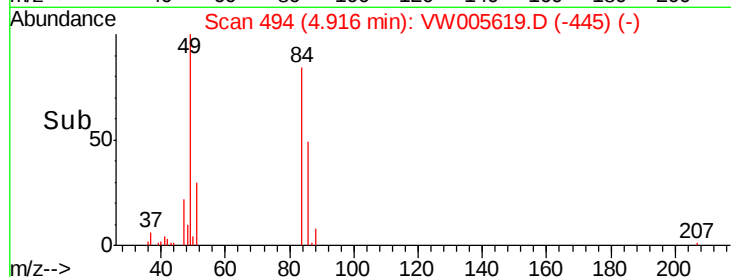
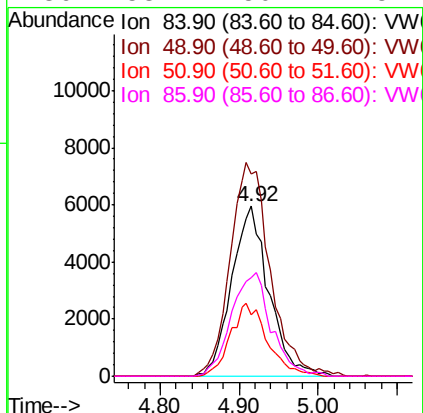
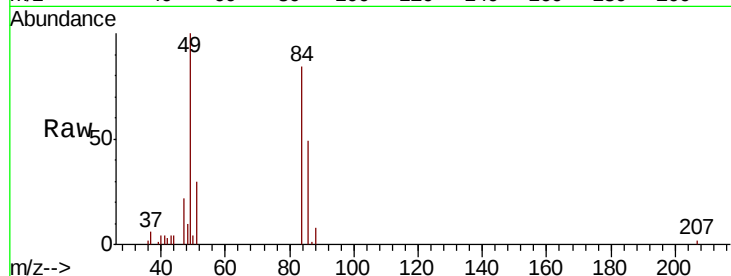




#20
Methylene Chloride
Concen: 2.595 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

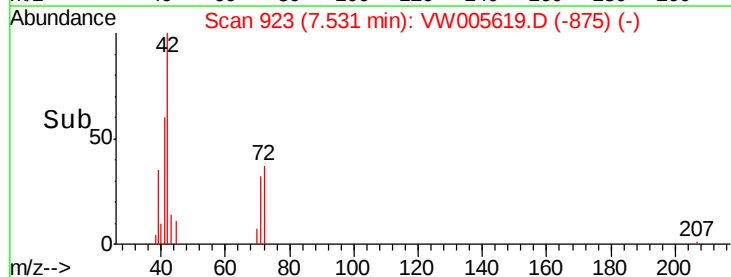
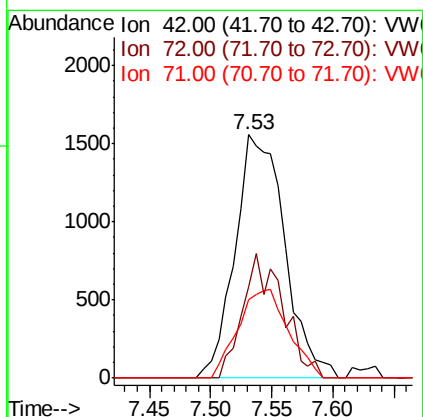
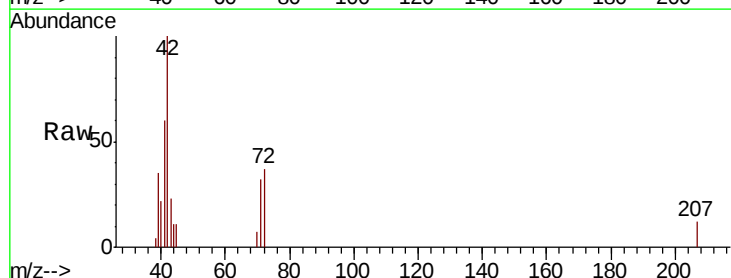
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H4

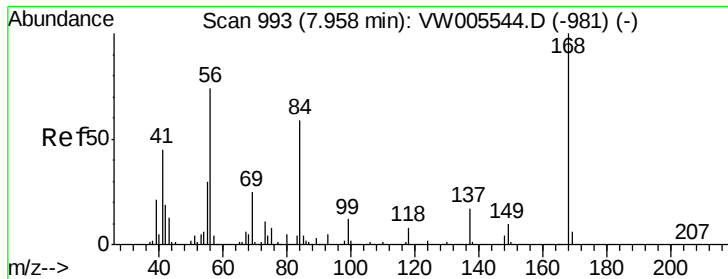
Tgt Ion:	84	Resp:	19544
Ion	Ratio	Lower	Upper
84	100		
49	119.3	97.0	145.6
51	36.4	30.2	45.2
86	58.2	50.2	75.4



#29
Tetrahydrofuran
Concen: 8.282 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.01 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Tgt Ion:	42	Resp:	4401
Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.6	50.4
71	36.8	31.8	47.6

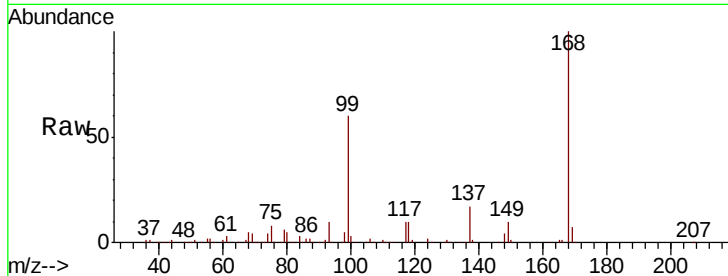




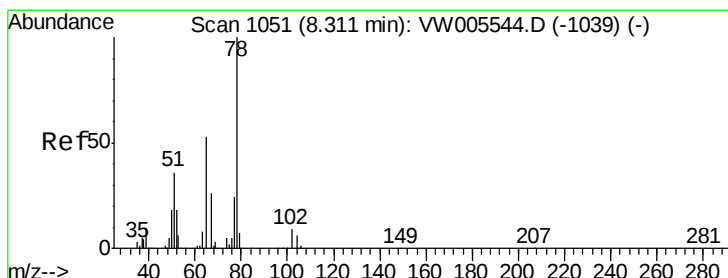
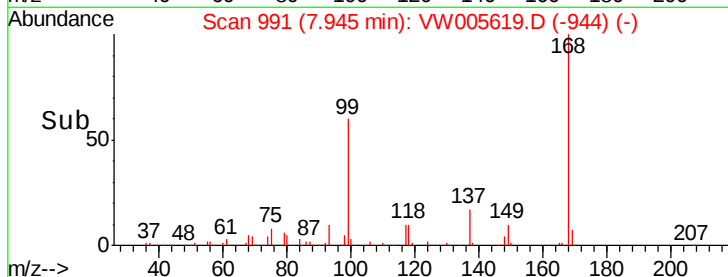
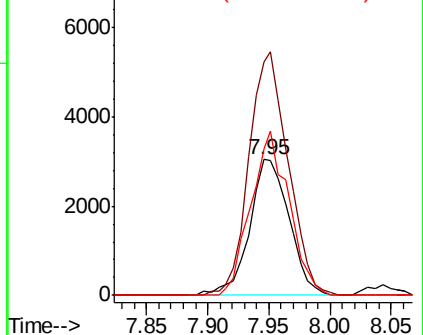
#31
Cyclohexane
Concen: 1.264 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H4

Tgt Ion: 56 Resp: 6865
Ion Ratio Lower Upper
56 100
69 172.3 27.0 40.4#
84 107.9 64.2 96.4#

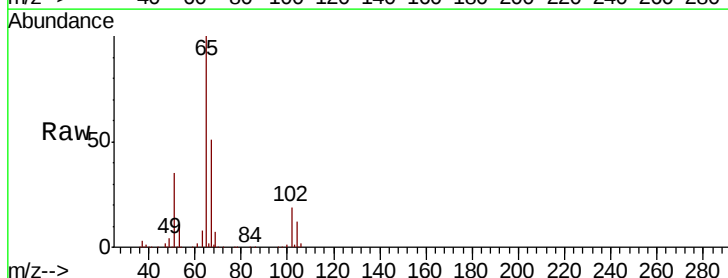


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

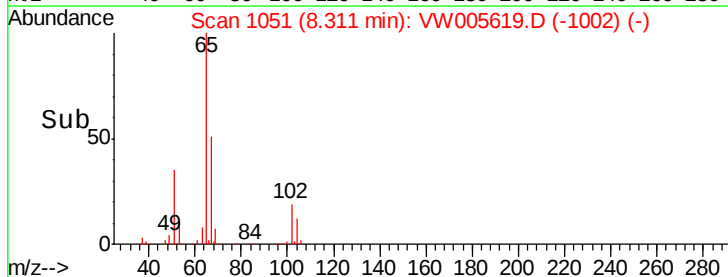
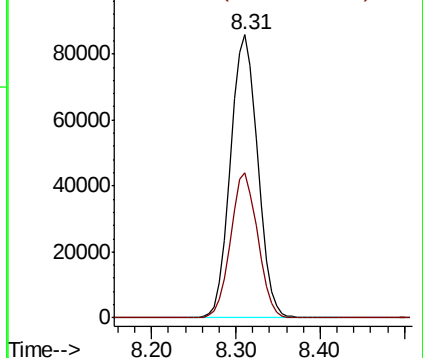


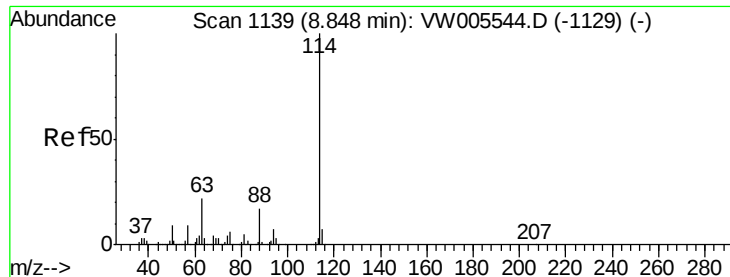
#33
1,2-Dichloroethane-d4
Concen: 53.512 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Tgt Ion: 65 Resp: 187401
Ion Ratio Lower Upper
65 100
67 50.9 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

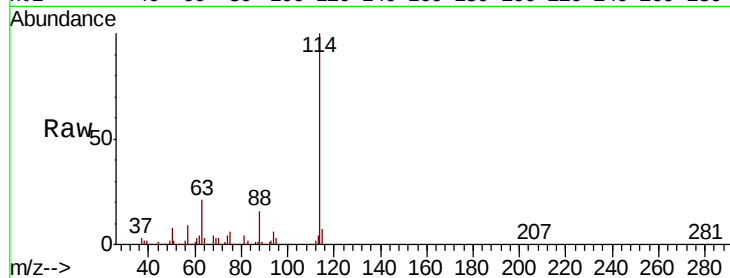




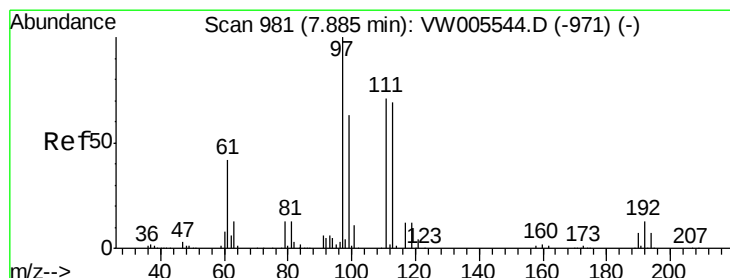
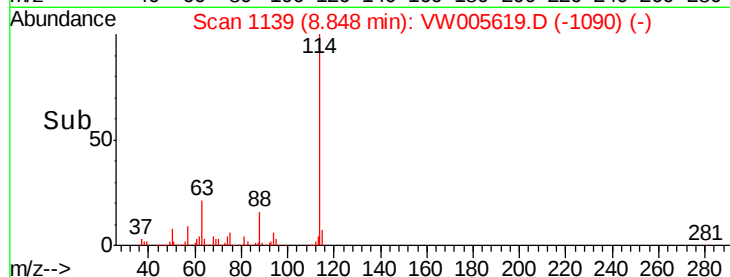
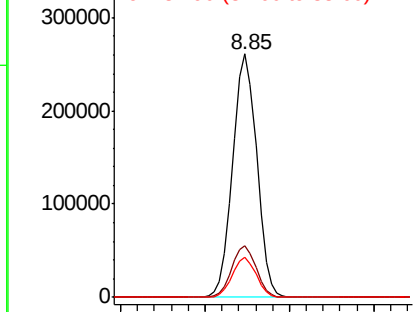
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H4

Tgt Ion:114 Resp: 504035
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.0
 88 16.5 0.0 33.0

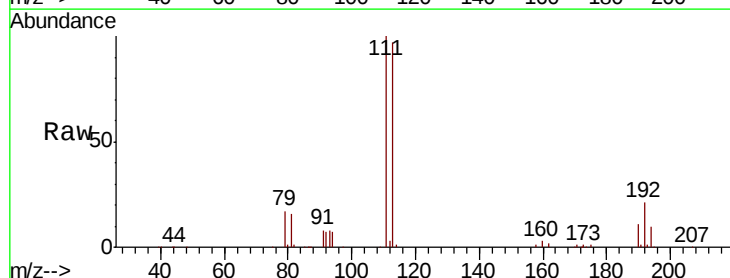


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

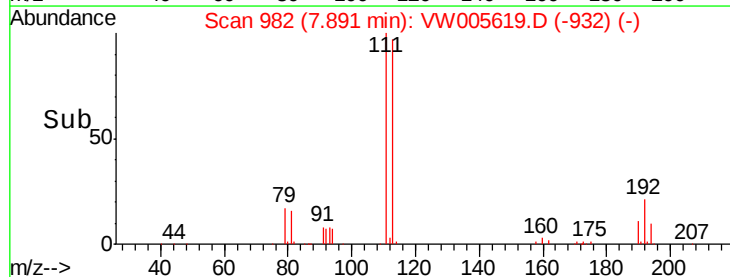
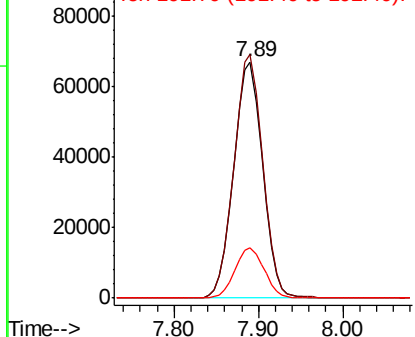


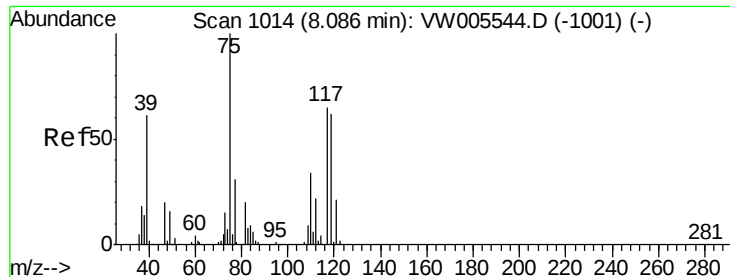
#35
 Dibromofluoromethane
 Concen: 49.024 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

Tgt Ion:113 Resp: 155391
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.6 123.8
 192 21.4 17.0 25.4



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

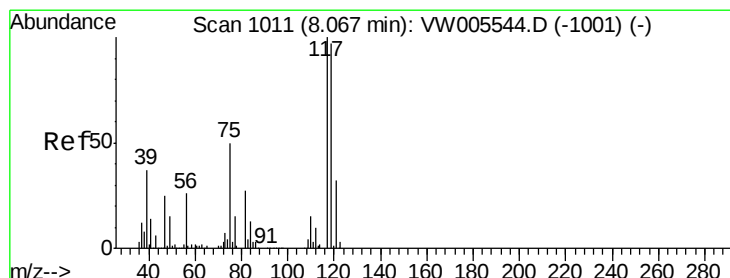
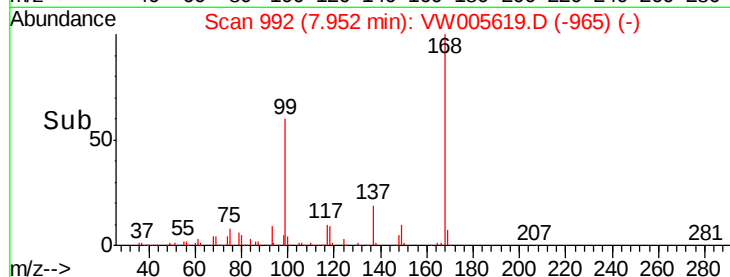
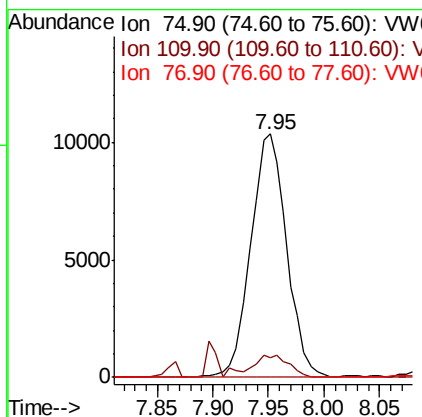
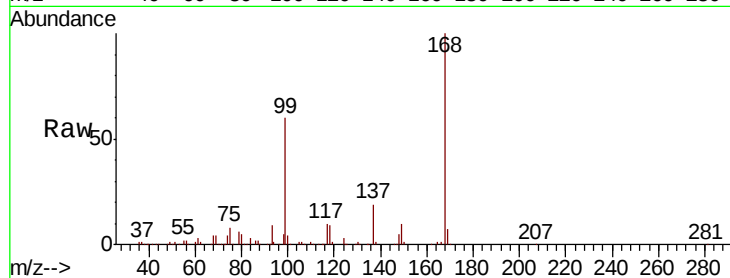




#36
 1,1-Dichloropropene
 Concen: 4.571 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

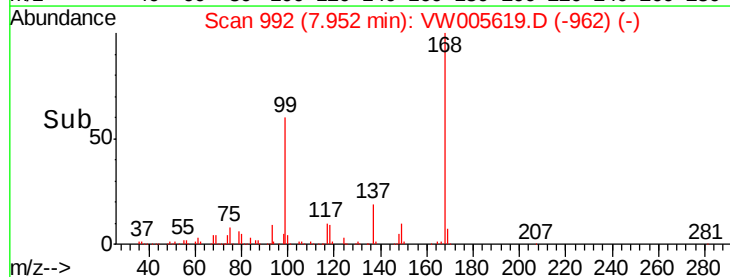
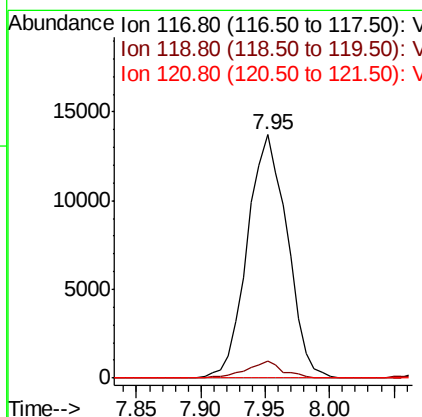
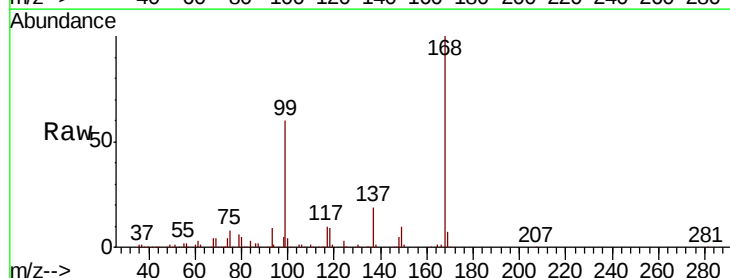
Instrument :
 MSVOA_W
 ClientSampled :
 EP1-Q1-H4

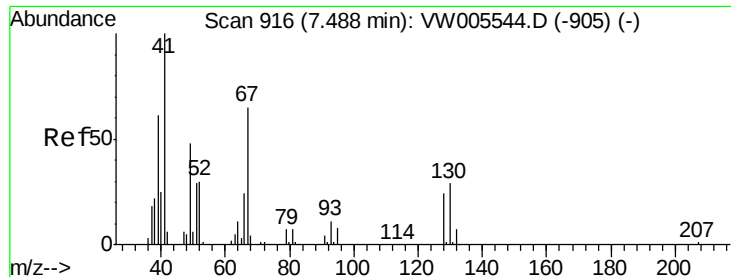
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.0	50.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.417 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.6	116.4#
121	0.0	25.7	38.5#

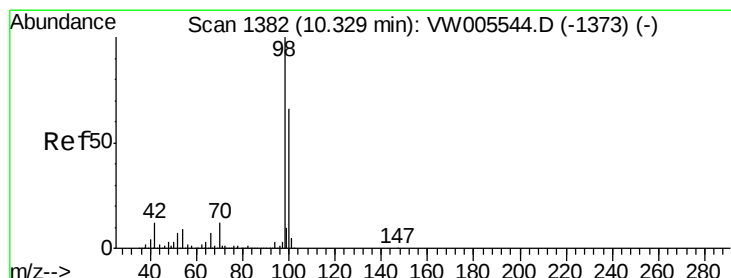
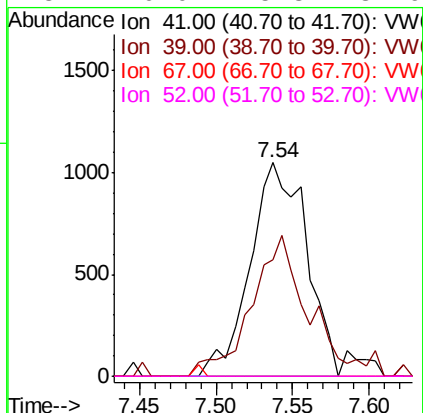
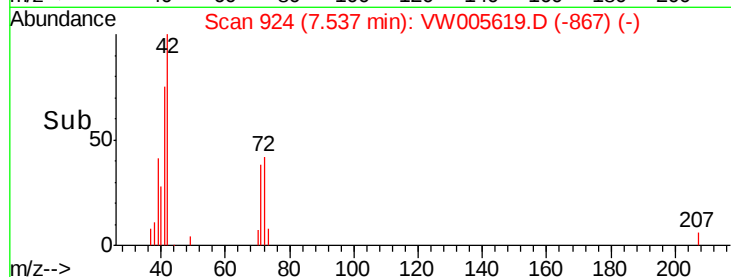
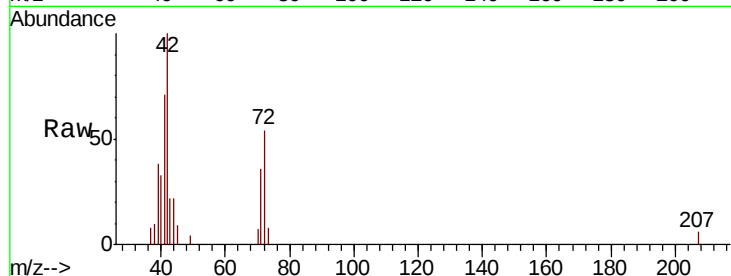




#41
Methacrylonitrile
Concen: 2.213 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

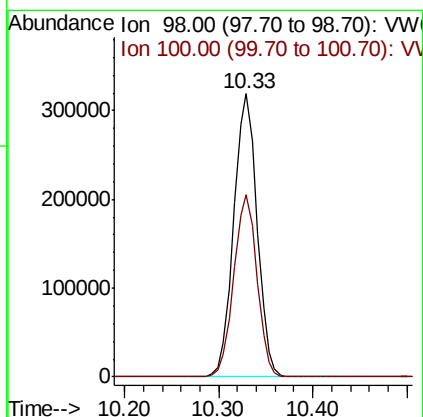
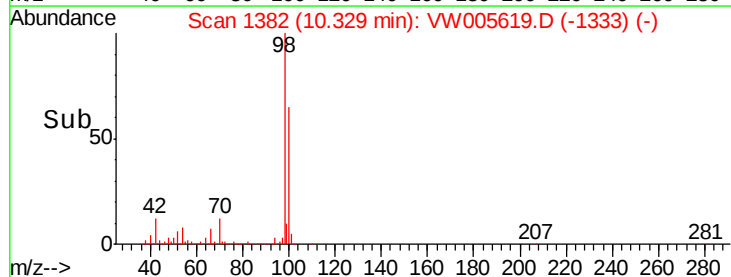
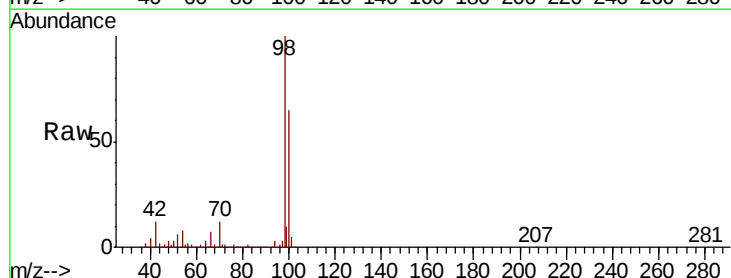
Instrument :
MSVOA_W
ClientSampled :
EP1-Q1-H4

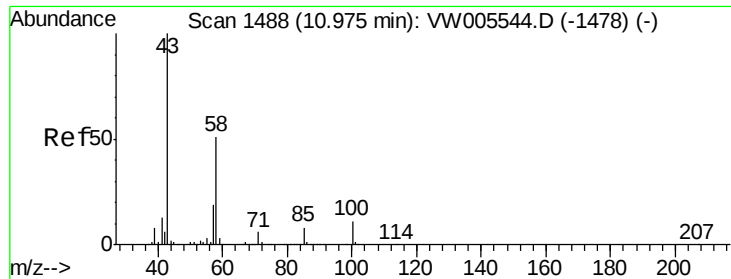
Tgt Ion: 41 Resp: 2689
Ion Ratio Lower Upper
41 100
39 64.5 45.4 68.2
67 0.0 55.2 82.8#
52 0.0 25.3 37.9#



#50
Toluene-d8
Concen: 42.439 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Tgt Ion: 98 Resp: 547729
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4

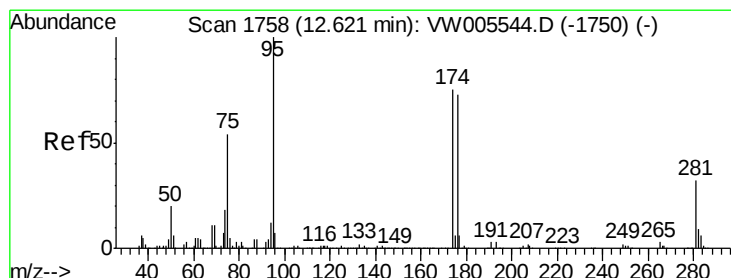
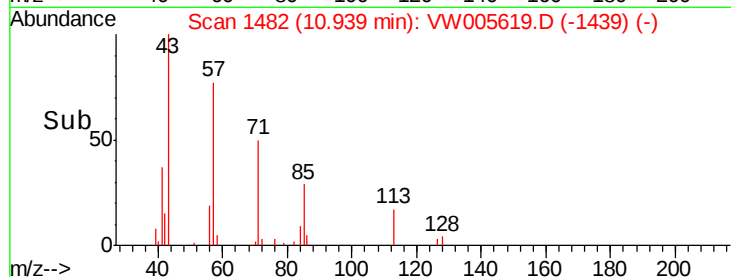
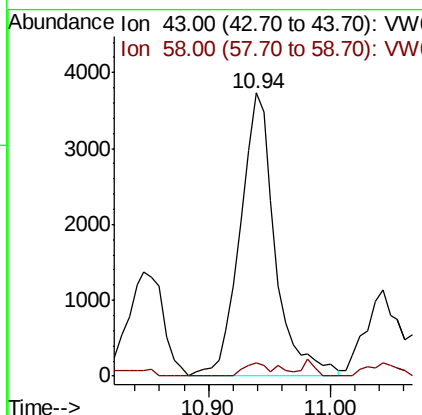
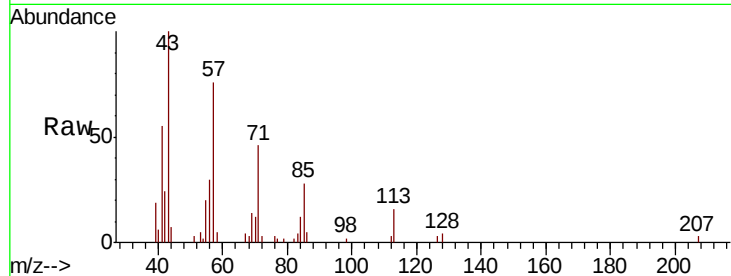




#59
2-Hexanone
Concen: 5.167 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.04 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

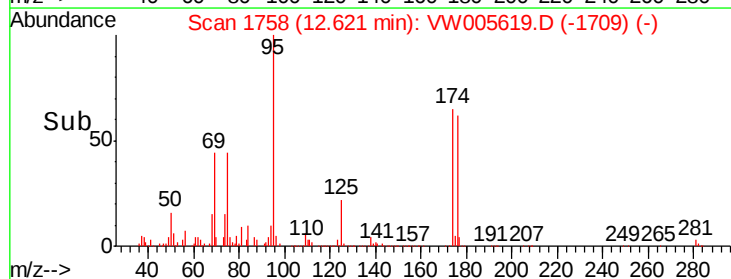
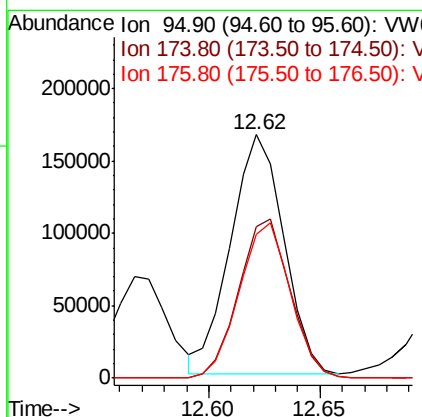
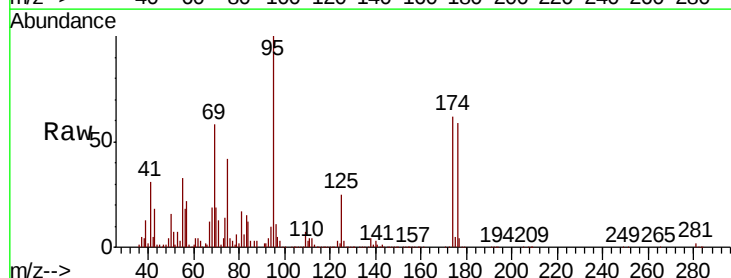
Instrument :
MSVOA_W
ClientSampled :
EP1-Q1-H4

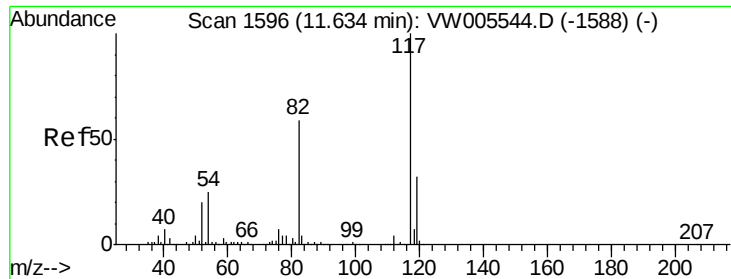
Tgt Ion: 43 Resp: 7422
Ion Ratio Lower Upper
43 100
58 3.0 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 57.544 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Tgt Ion: 95 Resp: 274810
Ion Ratio Lower Upper
95 100
174 64.5 0.0 163.8
176 62.6 0.0 158.0

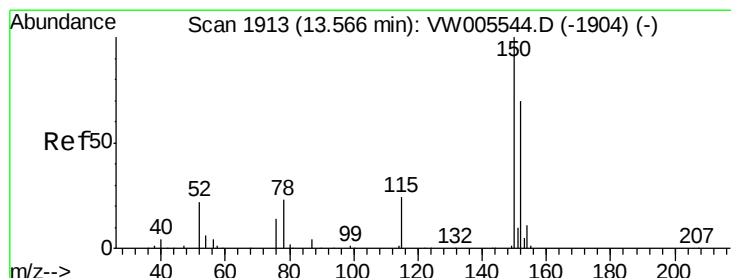
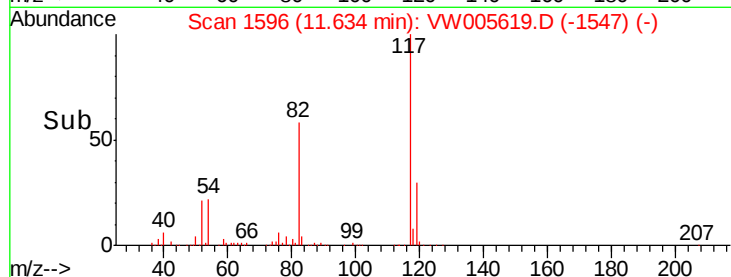
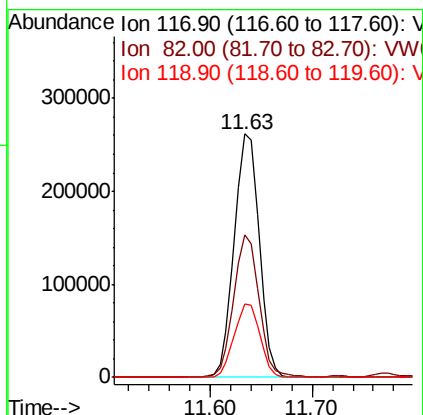
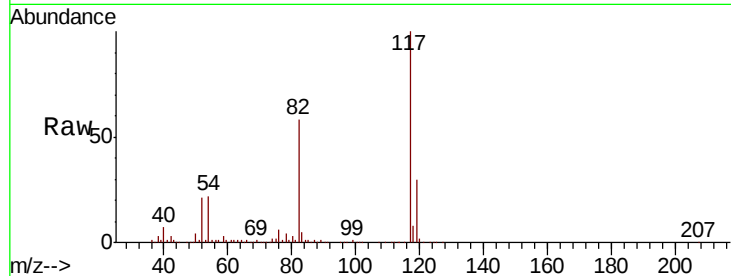




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

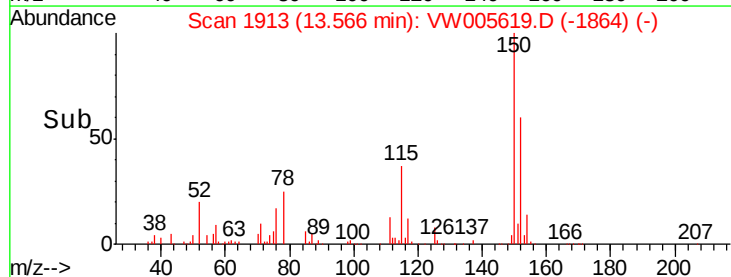
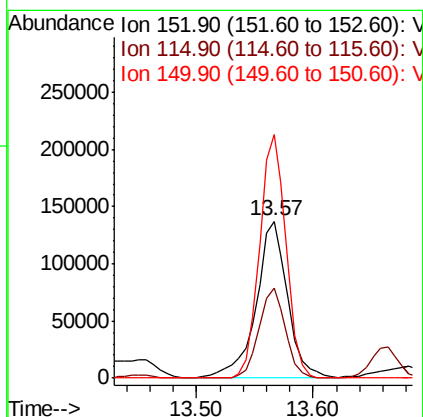
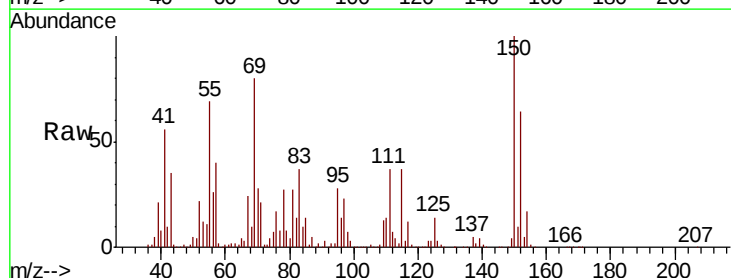
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H4

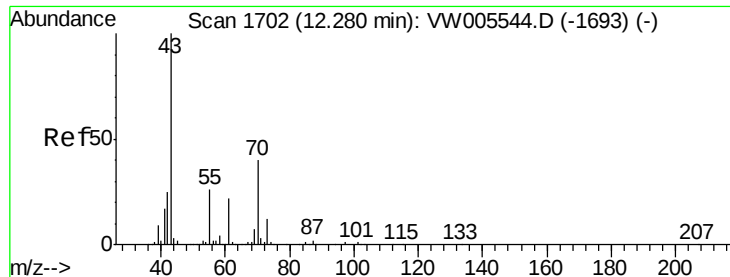
Tgt Ion:117 Resp: 442455
Ion Ratio Lower Upper
117 100
82 58.0 46.9 70.3
119 30.1 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Tgt Ion:152 Resp: 255365
Ion Ratio Lower Upper
152 100
115 48.4 30.0 90.0
150 130.8 0.0 348.6





#74

N-ethyl acetate

Concen: 65.009 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_W

ClientSampled :

EP1-Q1-H4

Tgt Ion: 43 Resp: 260683

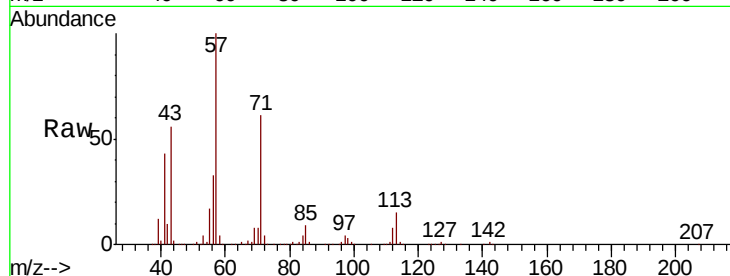
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.0#

55 0.0 20.9 31.3#

61 0.0 17.8 26.6#

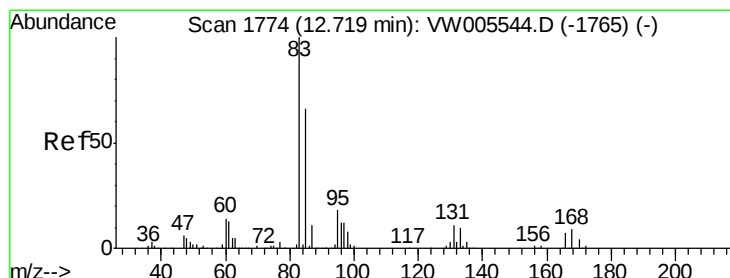
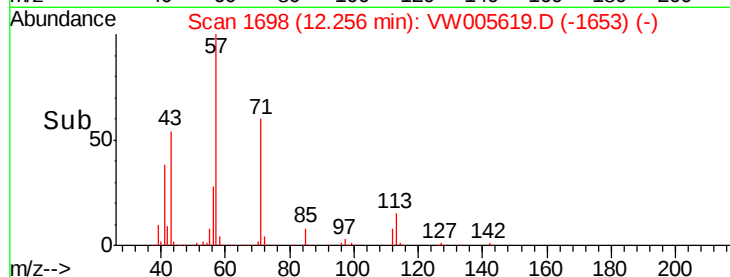
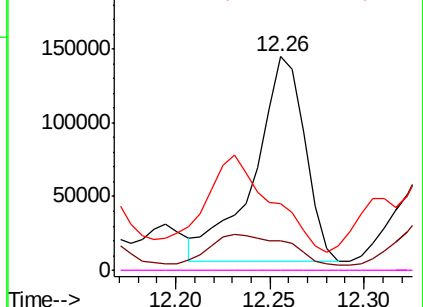


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 29.443 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

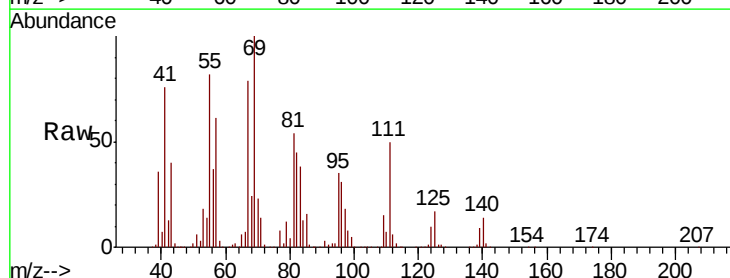
Tgt Ion: 83 Resp: 86606

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

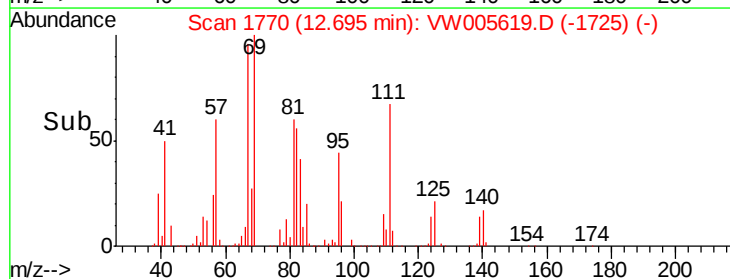
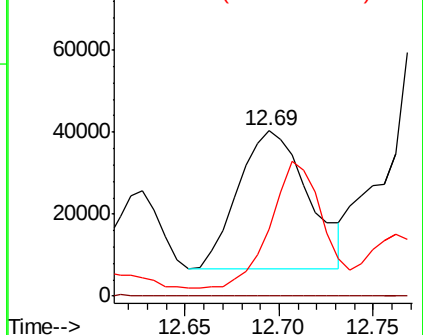
85 67.6 32.4 97.0

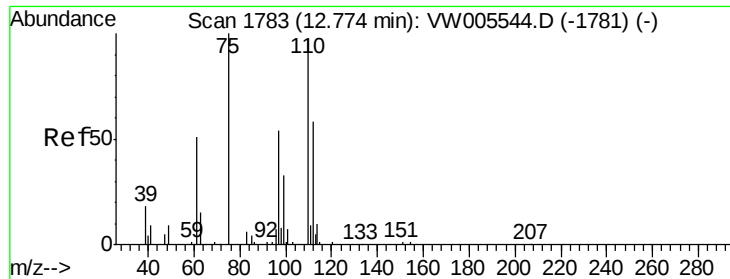


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW

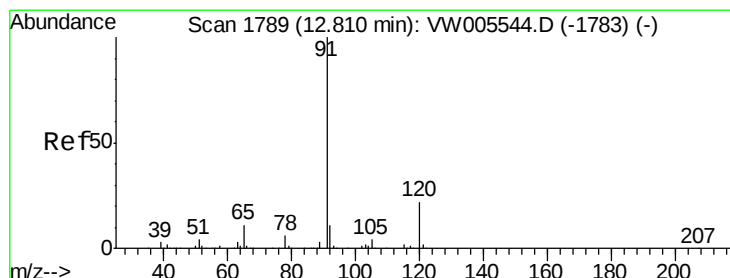
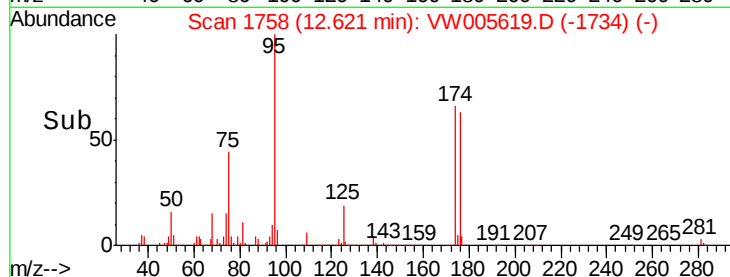
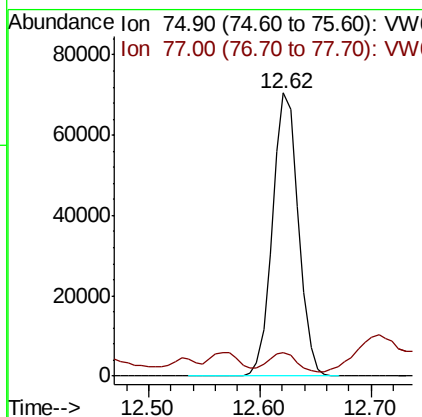
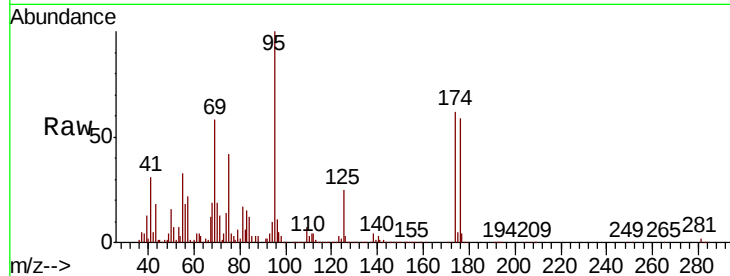




#76
 1,2,3-Trichloropropane
 Concen: 52.487 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

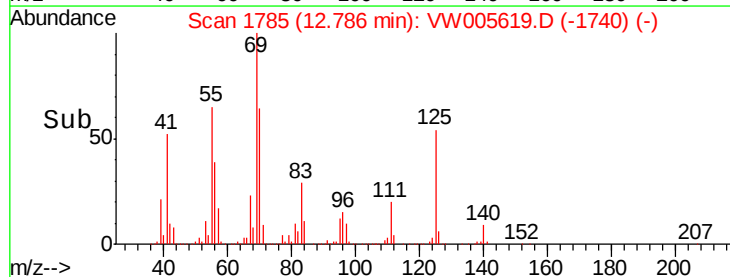
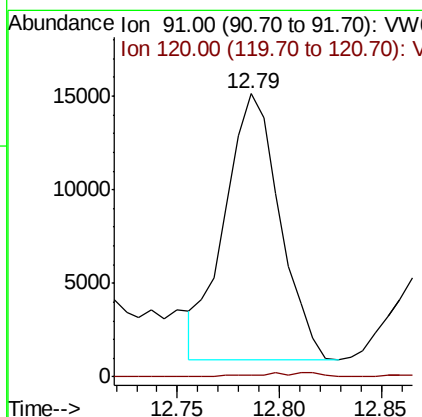
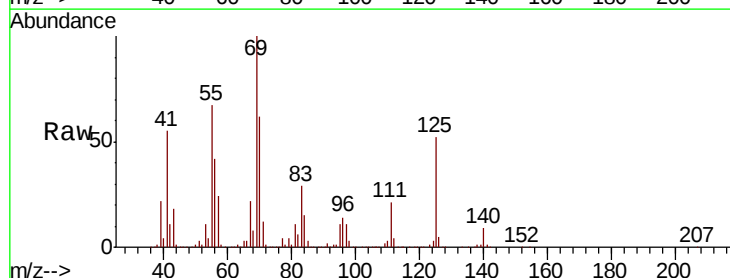
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H4

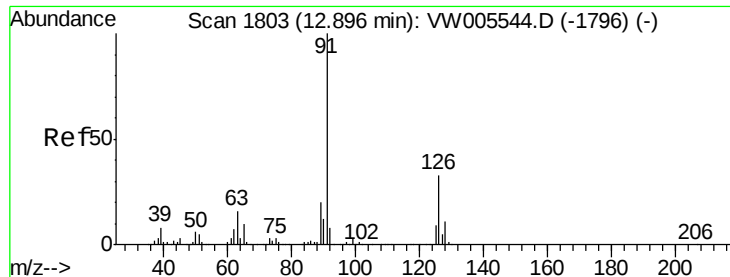
Tgt Ion: 75 Resp: 114254
 Ion Ratio Lower Upper
 75 100
 77 7.6 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.239 ug/l
 RT: 12.79 min Scan# 1785
 Delta R.T. -0.02 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

Tgt Ion: 91 Resp: 26573
 Ion Ratio Lower Upper
 91 100
 120 0.0 11.2 33.5#

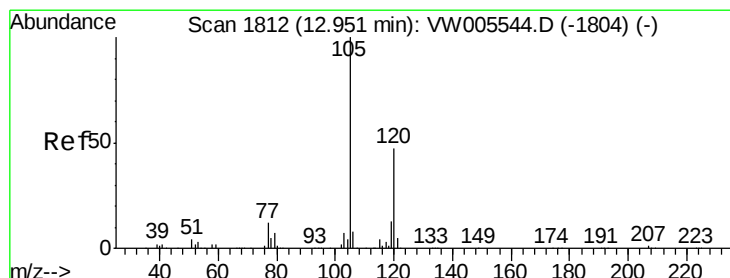
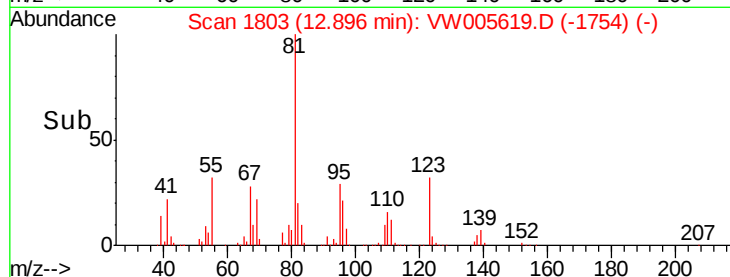
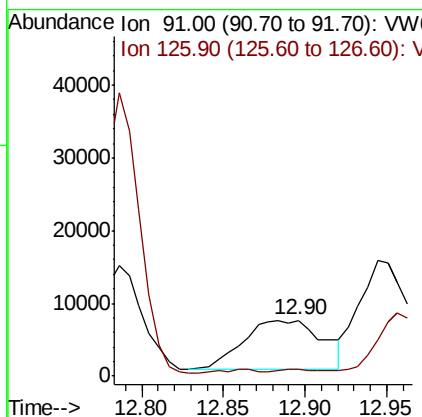
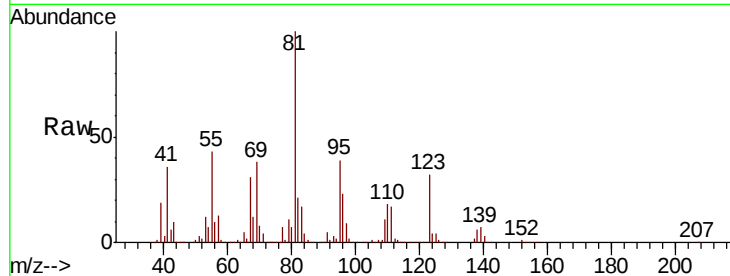




#79
 2-Chlorotoluene
 Concen: 1.830 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

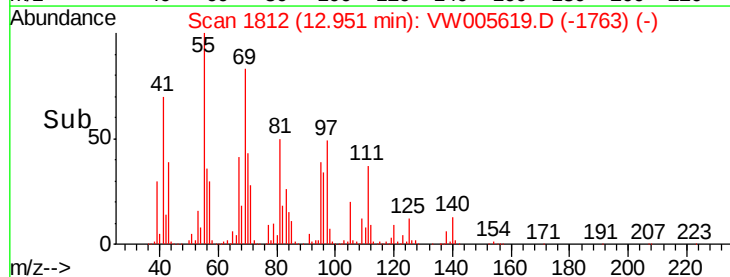
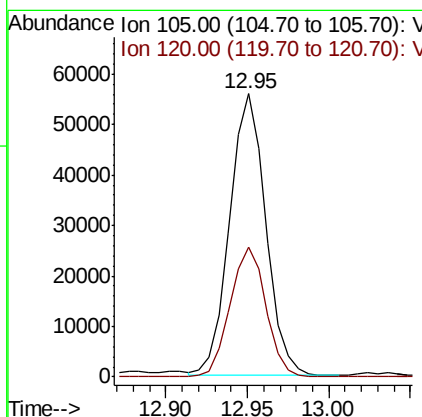
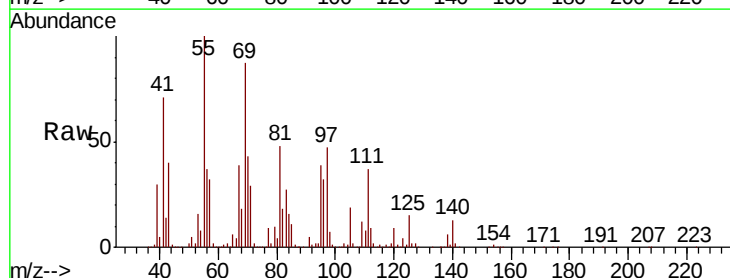
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-Q1-H4

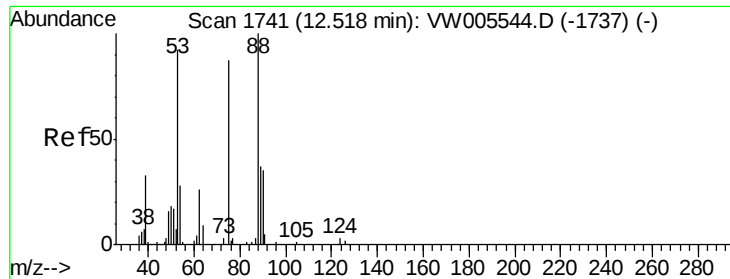
Tgt Ion: 91 Resp: 22697
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.4 49.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 5.573 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW005619.D
 Acq: 25 Sep 2018 18:44

Tgt Ion: 105 Resp: 85820
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.6 70.8





#81

trans-1,4-Dichloro-2-butene

Concen: 118.216 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_W

ClientSampleId :

EP1-Q1-H4

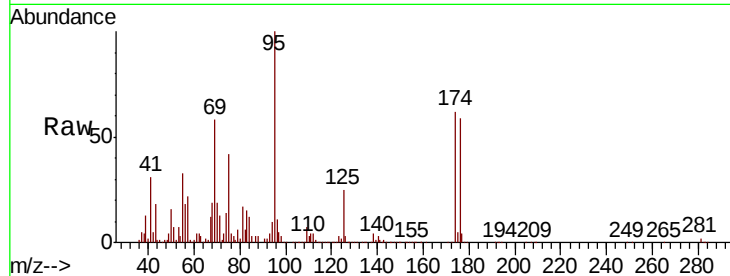
Tgt Ion: 75 Resp: 114254

Ion Ratio Lower Upper

75 100

53 14.7 85.8 128.6#

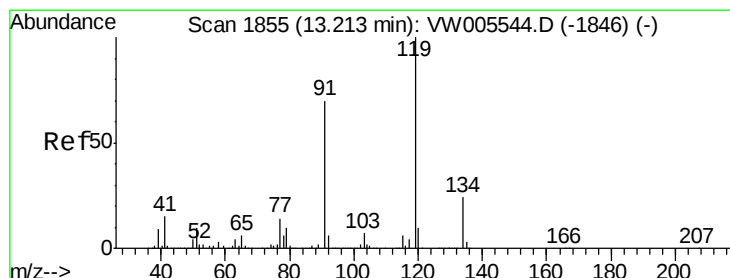
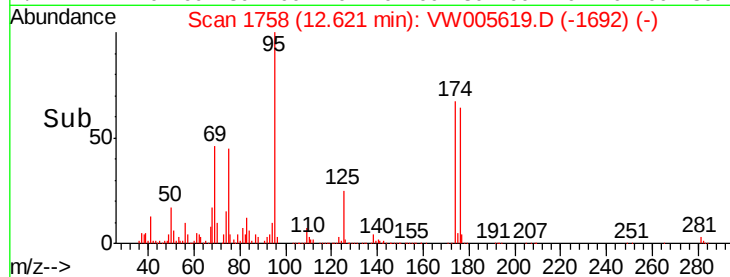
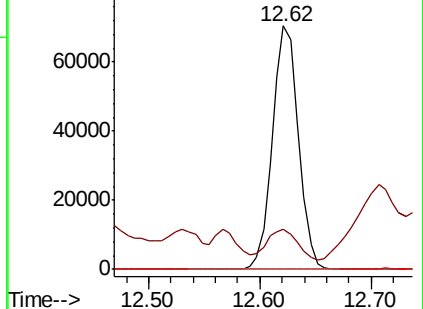
89 0.0 37.3 55.9#



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



#83

tert-Butylbenzene

Concen: 5.909 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

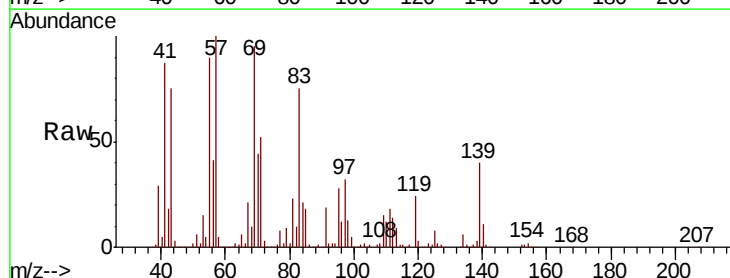
Tgt Ion: 119 Resp: 76443

Ion Ratio Lower Upper

119 100

91 86.1 34.6 103.8

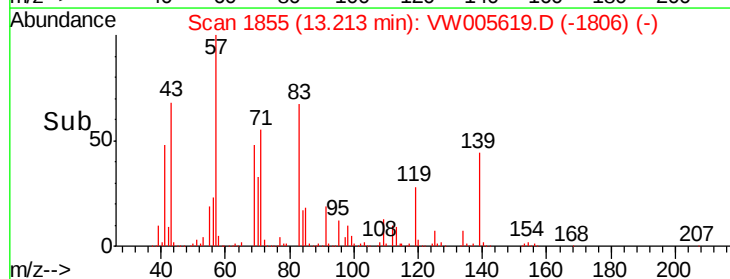
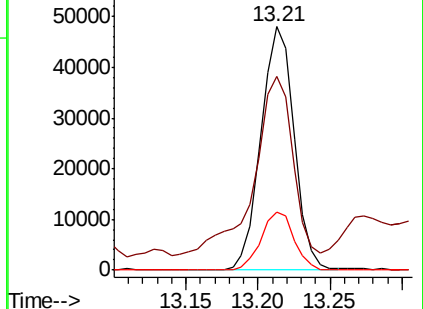
134 23.5 12.6 37.6

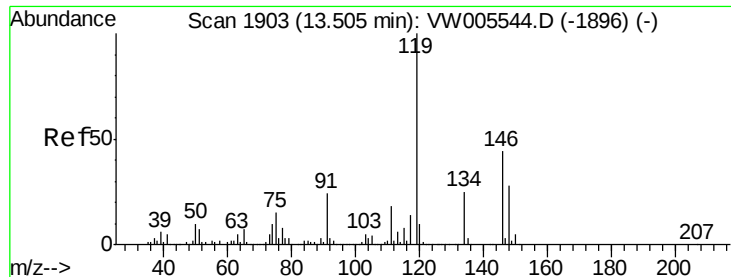


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V

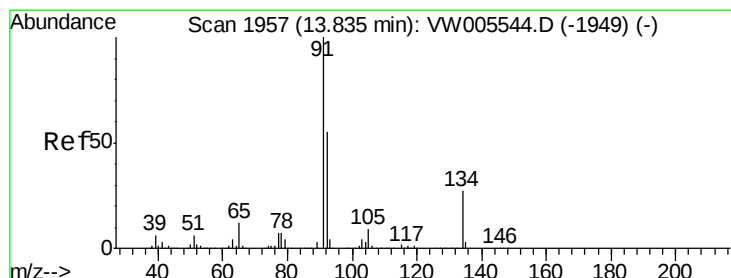
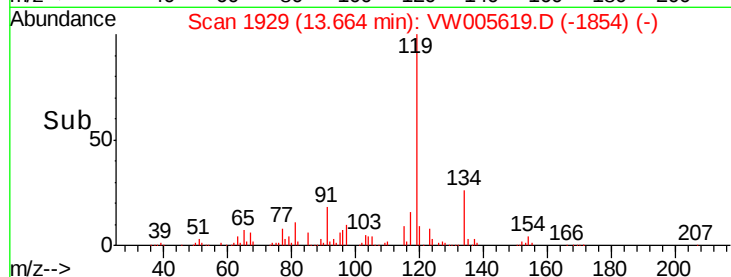
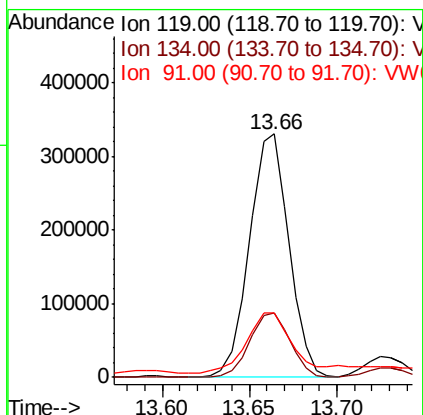
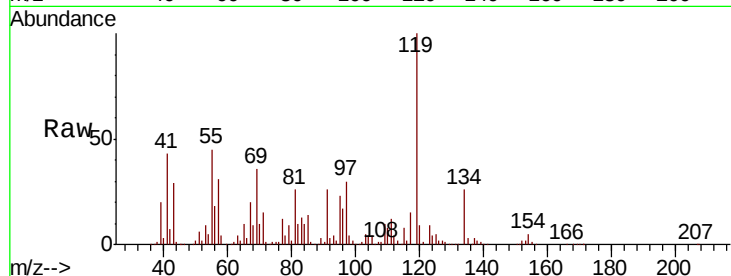




#86
p-Isopropyltoluene
Concen: 30.756 ug/l
RT: 13.66 min Scan# 1929
Delta R.T. 0.16 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

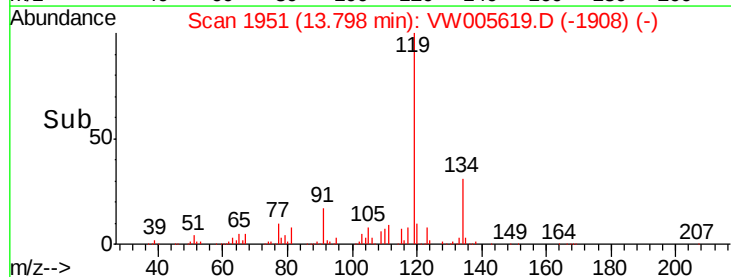
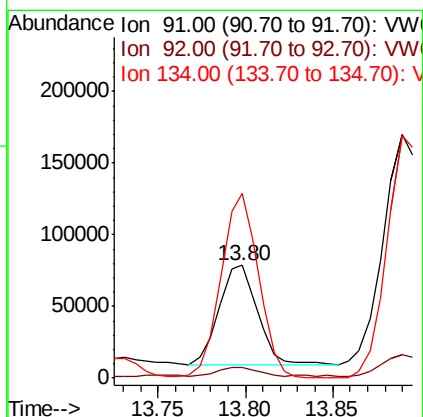
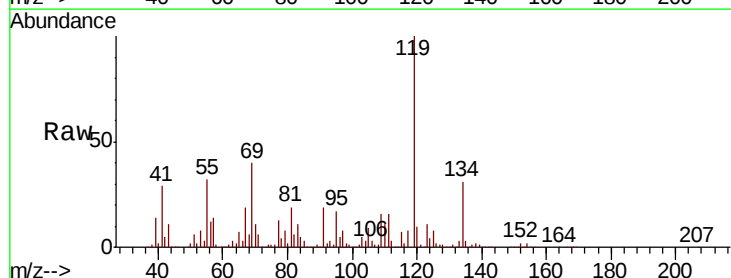
Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H4

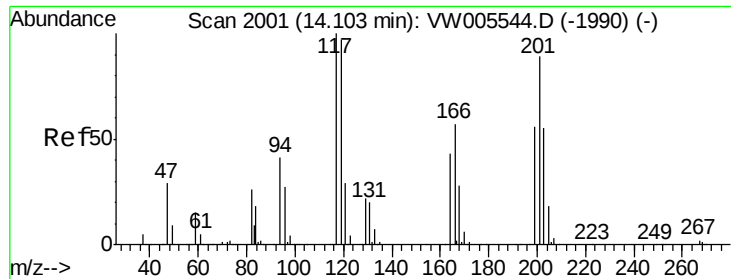
Tgt Ion: 119 Resp: 517224
Ion Ratio Lower Upper
119 100
134 27.0 12.7 38.1
91 28.6 12.2 36.4



#89
n-Butylbenzene
Concen: 6.709 ug/l
RT: 13.80 min Scan# 1951
Delta R.T. -0.04 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Tgt Ion: 91 Resp: 106414
Ion Ratio Lower Upper
91 100
92 9.8 26.5 79.5#
134 179.5 12.9 38.7#





#90

Hexachloroethane

Concen: 27.242 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_W

ClientSampleId :

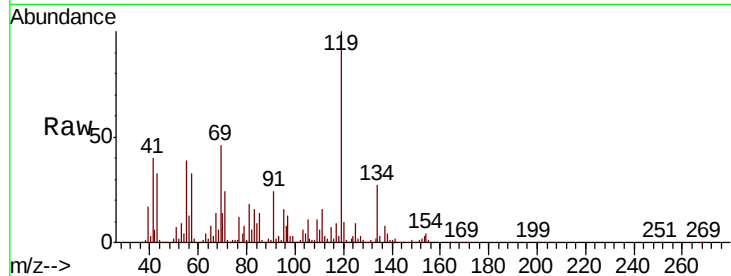
EP1-Q1-H4

Tgt Ion:117 Resp: 83036

Ion Ratio Lower Upper

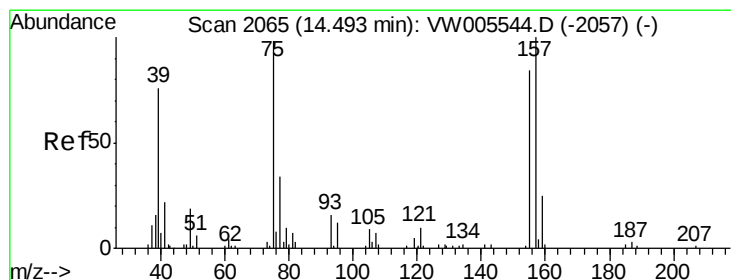
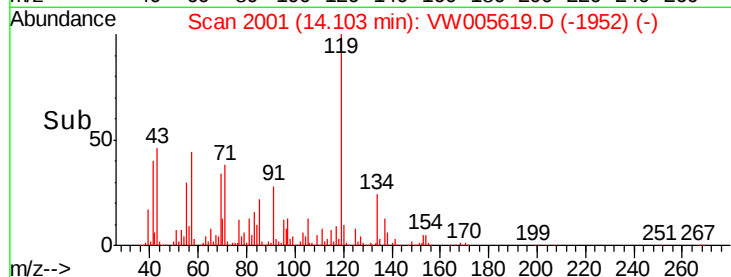
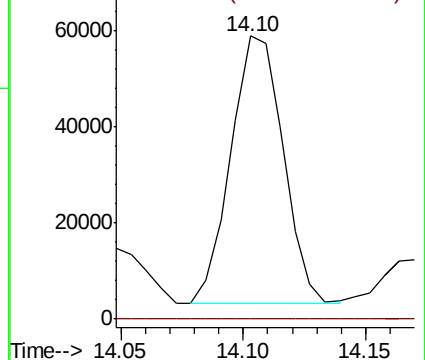
117 100

201 0.2 42.8 128.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.681 ug/l

RT: 14.51 min Scan# 2068

Delta R.T. 0.02 min

Lab File: VW005619.D

Acq: 25 Sep 2018 18:44

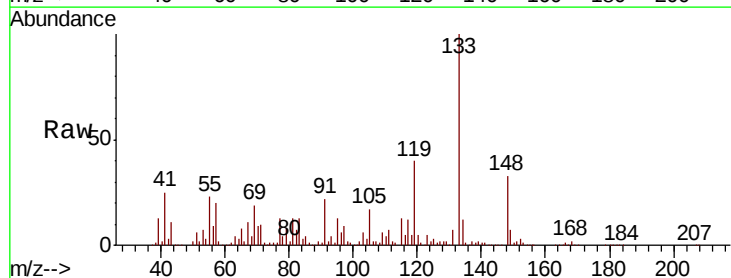
Tgt Ion: 75 Resp: 4865

Ion Ratio Lower Upper

75 100

155 7.6 39.1 117.5#

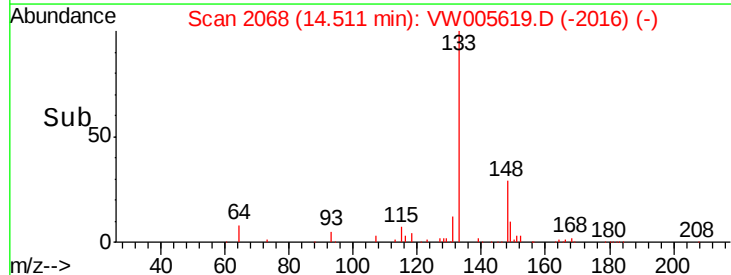
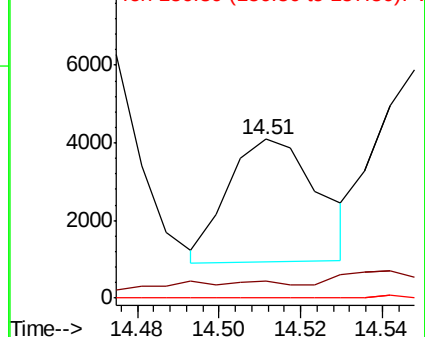
157 0.0 50.8 152.4#

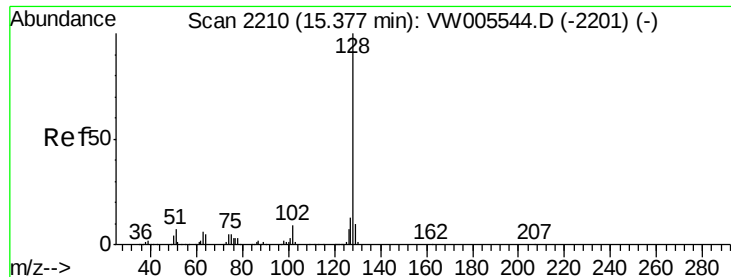


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 3.285 ug/l
RT: 15.33 min Scan# 2203
Delta R.T. -0.04 min
Lab File: VW005619.D
Acq: 25 Sep 2018 18:44

Instrument :
MSVOA_W
ClientSampleId :
EP1-Q1-H4

Tgt Ion	Ratio	Lower	Upper
128	100		
127	42.3	10.9	16.3#
129	89.7	8.6	13.0#

