

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW031219\
 Data File : VW009139.D
 Acq On : 13 Mar 2019 06:42
 Operator : SY/VA
 Sample : K1871-01RE
 Misc : 6.62G/5ML/MSVOA_W/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1RE

Quant Time: Mar 13 08:25:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	290781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	458848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	334246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	88674	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	171177	58.51	ug/l	0.00
Spiked Amount			Recovery	=	117.02%	
35) Dibromofluoromethane	7.88	113	136460	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	10.32	98	526871	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
62) 4-Bromofluorobenzene	12.62	95	149693	33.51	ug/l	0.00
Spiked Amount			Recovery	=	67.02%	

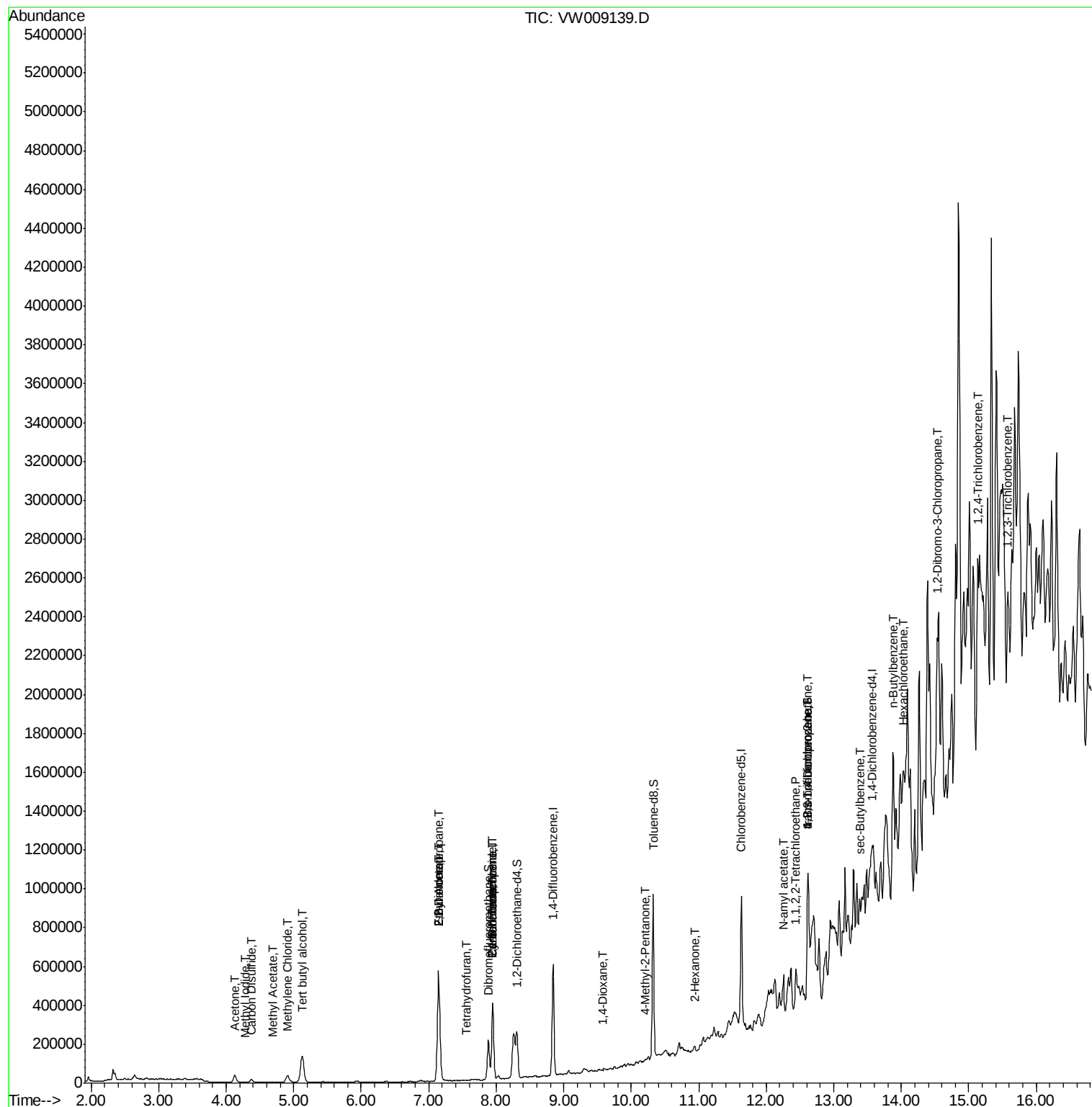
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.28	142	24	3.194	ug/l #	40
11) Tert butyl alcohol	5.12	59	123538	551.053	ug/l #	76
16) Acetone	4.12	43	64969	98.412	ug/l	98
17) Carbon Disulfide	4.37	76	25212	2.867	ug/l	100
18) Methyl Acetate	4.68	43	4281	2.820	ug/l	99
20) Methylene Chloride	4.91	84	25539	3.138	ug/l	93
25) 2-Butanone	7.15	43	44501	48.775	ug/l #	68
26) 2,2-Dichloropropane	7.15	77	36524	7.562	ug/l #	57
29) Tetrahydrofuran	7.56	42	1907	3.317	ug/l	95
31) Cyclohexane	7.95	56	9260	1.697	ug/l #	37
36) 1,1-Dichloropropene	7.95	75	23159	4.827	ug/l #	53
37) Ethyl Acetate	7.15	43	44501	19.747	ug/l #	24
38) Carbon Tetrachloride	7.95	117	29300	5.913	ug/l #	17
49) 1,4-Dioxane	9.58	88	26	1.036	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	3778	1.773	ug/l	100
59) 2-Hexanone	10.93	43	12614	8.420	ug/l #	35
74) N-amyl acetate	12.25	43	52227	34.743	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.44	83	11751	11.731	ug/l	70
76) 1,2,3-Trichloropropane	12.62	75	66562	95.007	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	66562	212.507	ug/l #	6
85) sec-Butylbenzene	13.39	105	22644	3.311	ug/l #	62
89) n-Butylbenzene	13.88	91	6096	1.048	ug/l #	54
90) Hexachloroethane	14.04	117	1915	1.815	ug/l	65
92) 1,2-Dibromo-3-Chloropropan	14.53	75	780	4.372	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.15	180	2778	1.529	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.58	180	16566	10.369	ug/l #	12

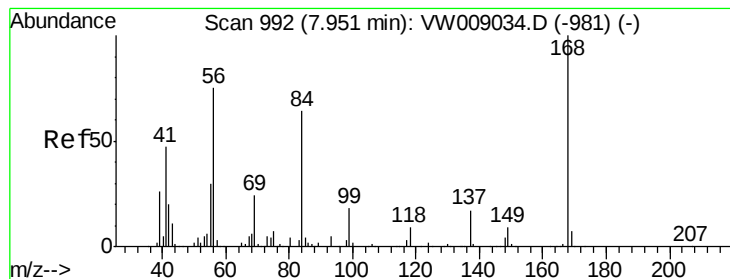
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 05:22:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampled :

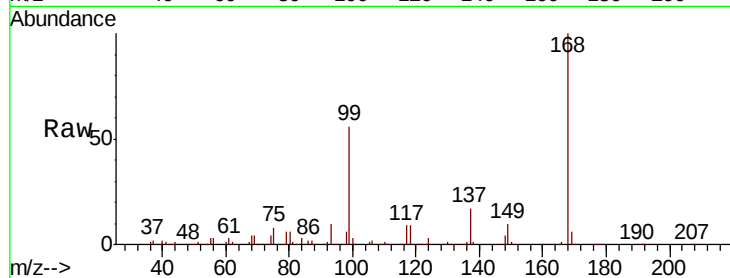
TP-1RE

Tgt Ion:168 Resp: 290781

Ion Ratio Lower Upper

168 100

99 55.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

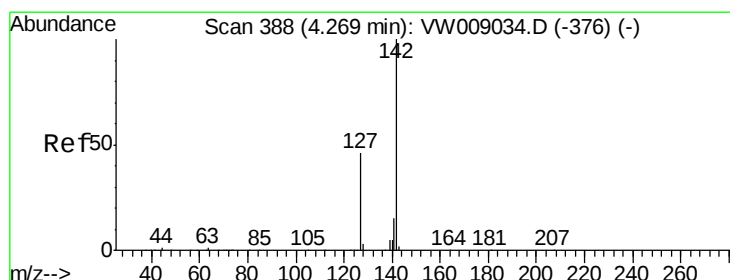
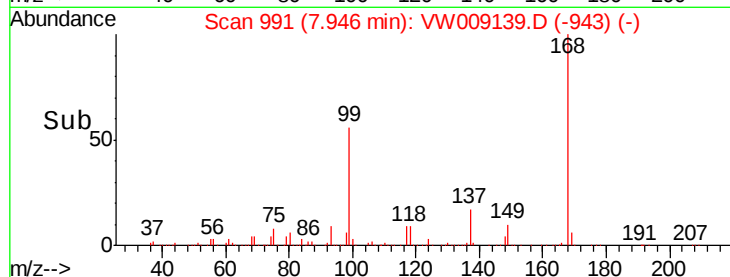
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 3.194 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

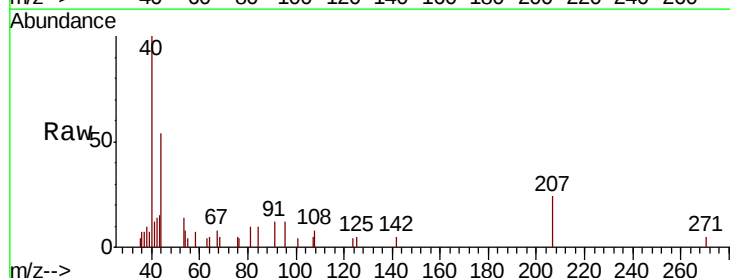
Tgt Ion:142 Resp: 24

Ion Ratio Lower Upper

142 100

127 0.0 35.8 53.6#

141 0.0 11.8 17.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.28

80

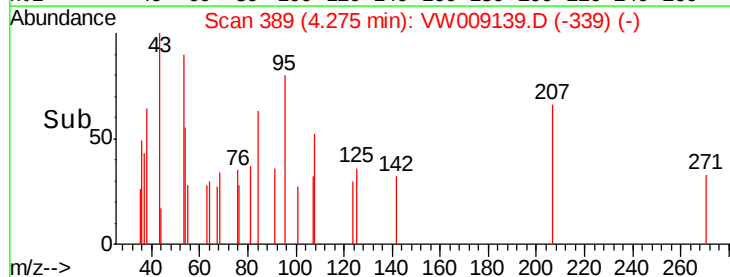
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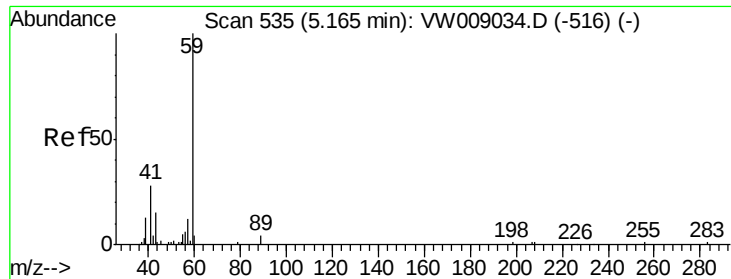
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20

0

Time-->

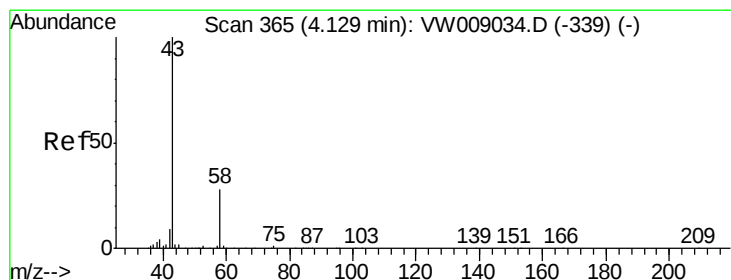
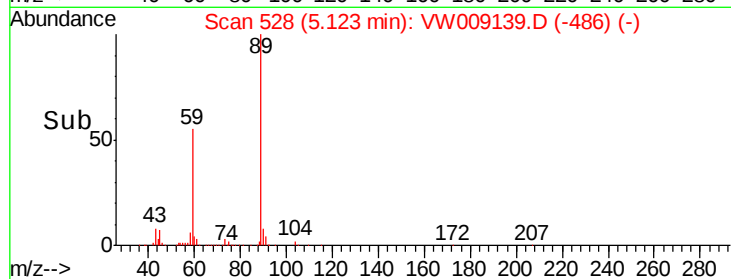
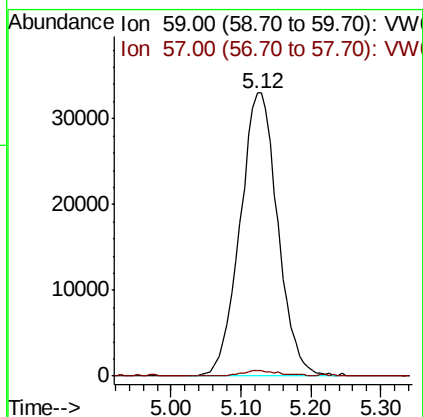
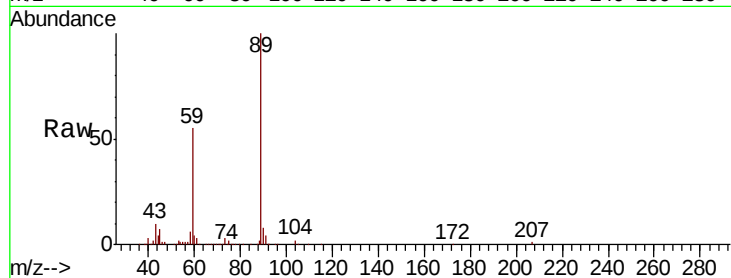




#11
Tert butyl alcohol
Concen: 551.053 ug/l
RT: 5.12 min Scan# 528
Delta R.T. -0.04 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

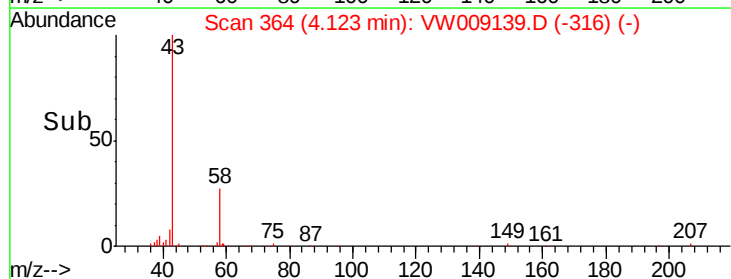
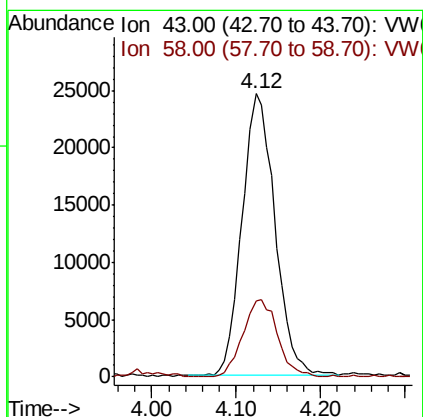
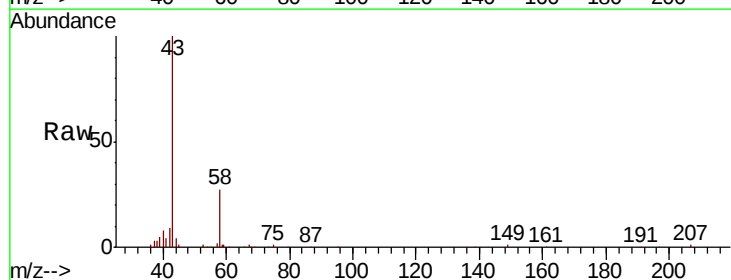
Instrument :
MSVOA_W
ClientSampled :
TP-1RE

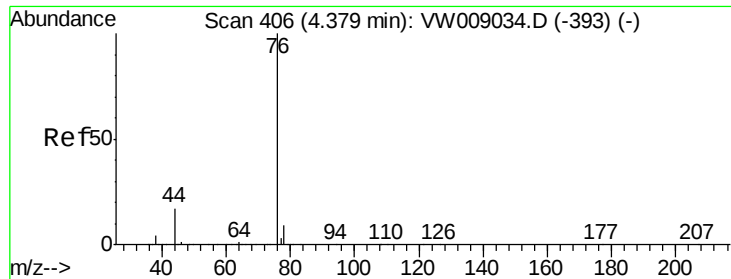
Tgt Ion: 59 Resp: 123538
Ion Ratio Lower Upper
59 100
57 1.8 8.6 12.8#



#16
Acetone
Concen: 98.412 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.01 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

Tgt Ion: 43 Resp: 64969
Ion Ratio Lower Upper
43 100
58 27.0 22.5 33.7

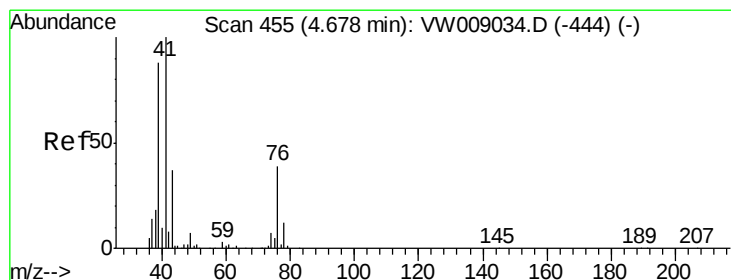
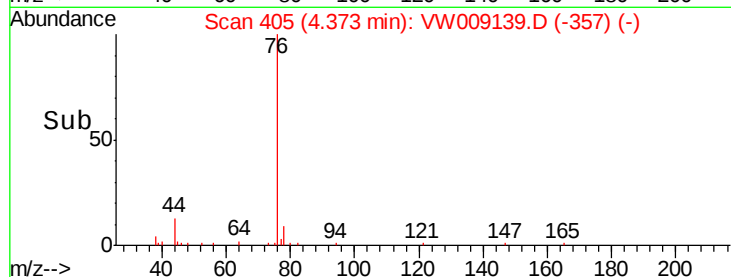
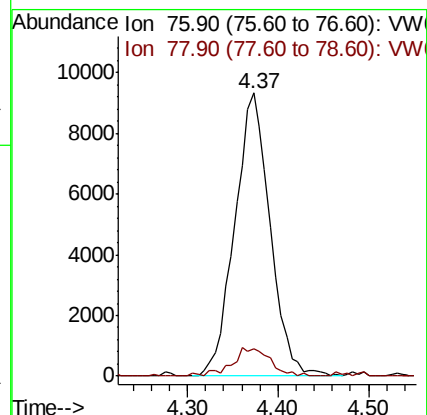
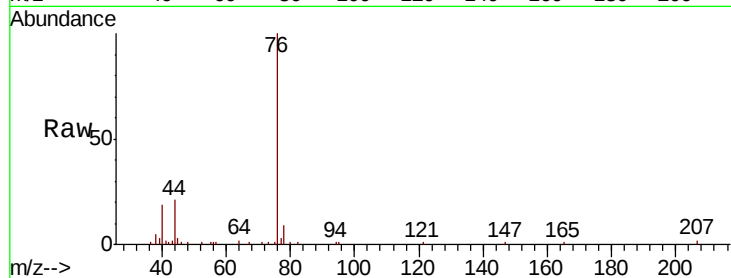




#17
Carbon Disulfide
Concen: 2.867 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

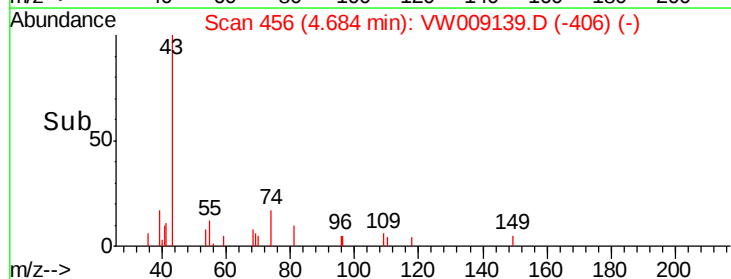
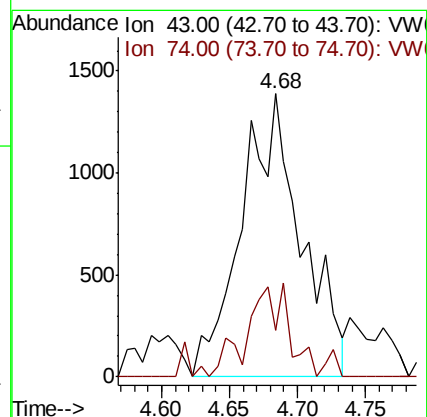
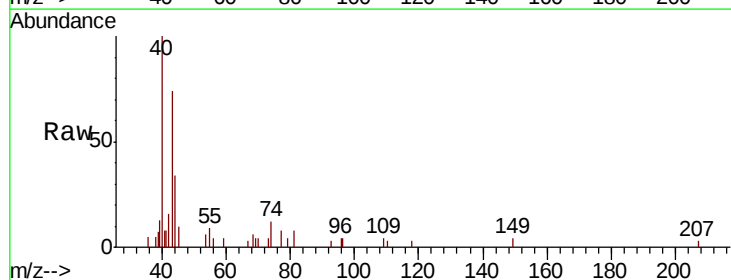
Instrument :
MSVOA_W
ClientSampled :
TP-1RE

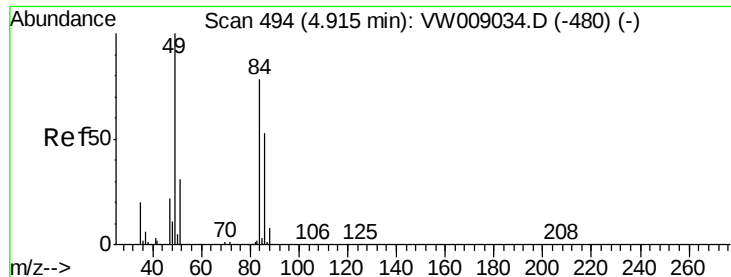
Tgt Ion: 76 Resp: 25212
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.6



#18
Methyl Acetate
Concen: 2.820 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

Tgt Ion: 43 Resp: 4281
Ion Ratio Lower Upper
43 100
74 22.4 17.6 26.4

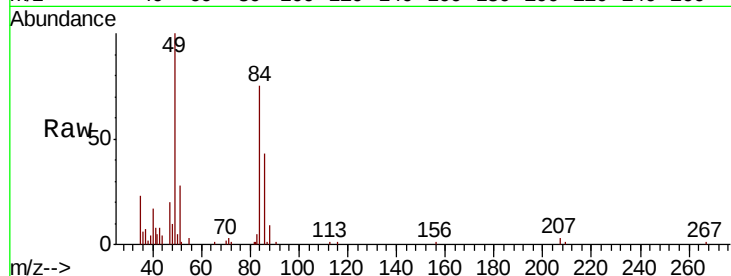




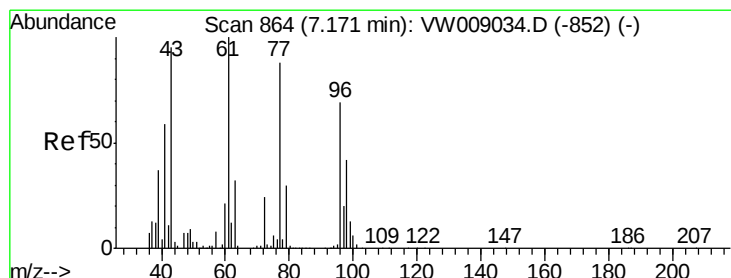
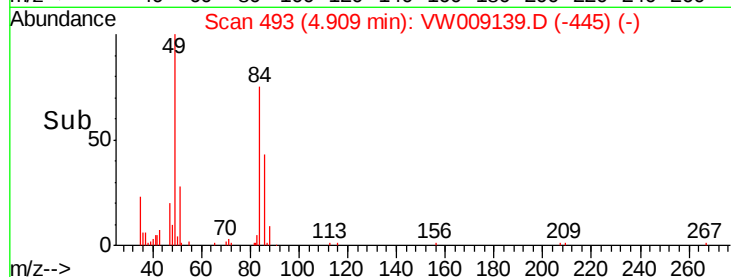
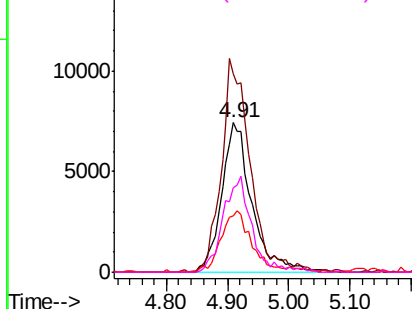
#20
Methylene Chloride
Concen: 3.138 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

Instrument :
MSVOA_W
ClientSampleId :
TP-1RE

Tgt Ion: 84 Resp: 25539
Ion Ratio Lower Upper
84 100
49 132.8 102.4 153.6
51 37.7 31.6 47.4
86 56.7 54.5 81.7

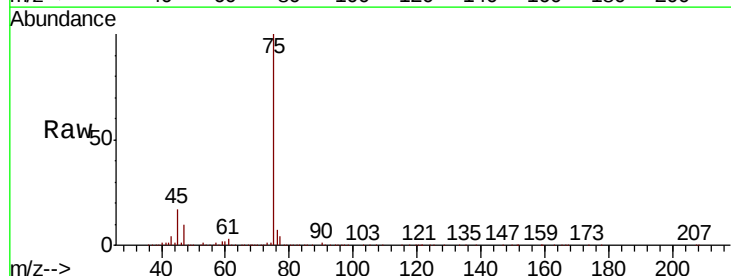


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

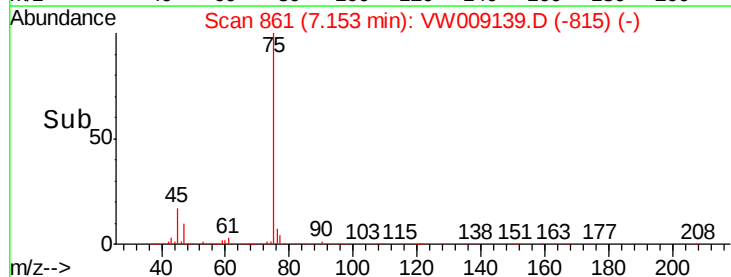
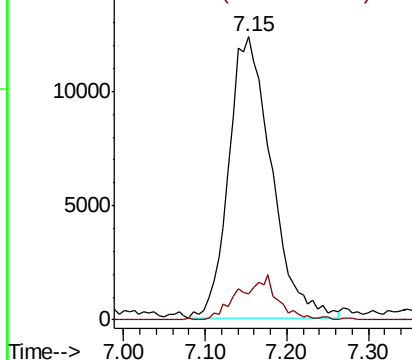


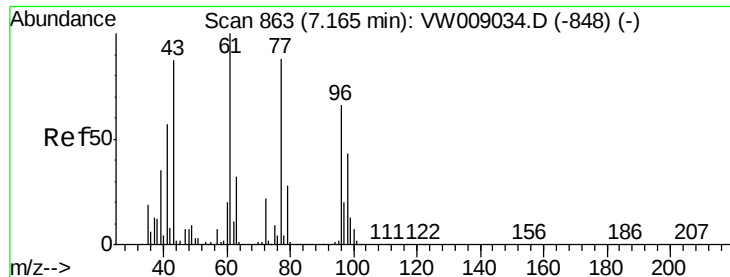
#25
2-Butanone
Concen: 48.775 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.02 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

Tgt Ion: 43 Resp: 44501
Ion Ratio Lower Upper
43 100
72 9.1 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 7.562 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampleId :

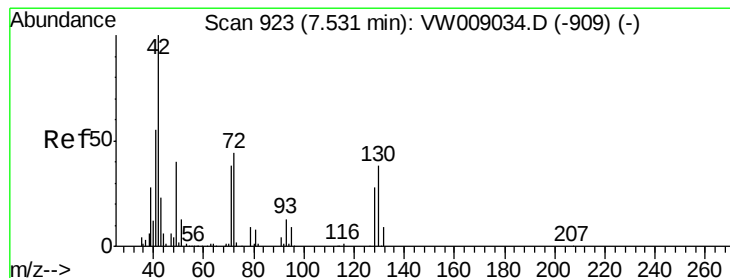
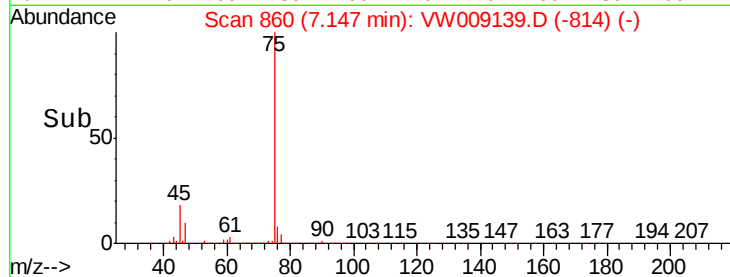
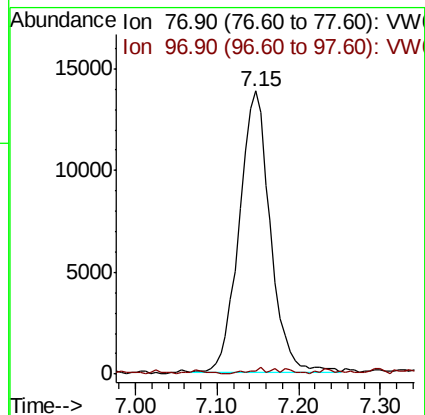
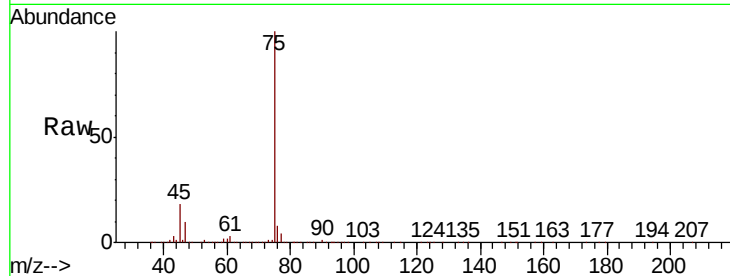
TP-1RE

Tgt Ion: 77 Resp: 36524

Ion Ratio Lower Upper

77 100

97 1.3 10.9 32.9#



#29

Tetrahydrofuran

Concen: 3.317 ug/l

RT: 7.56 min Scan# 927

Delta R.T. 0.02 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

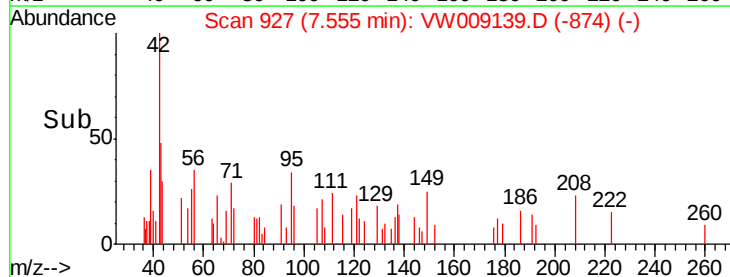
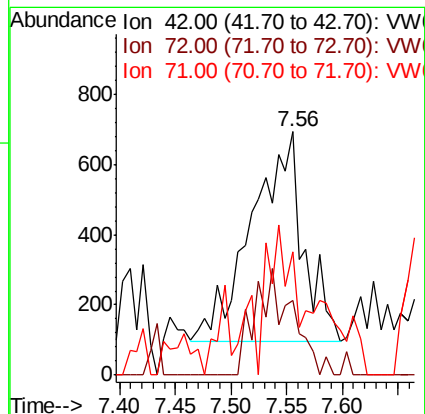
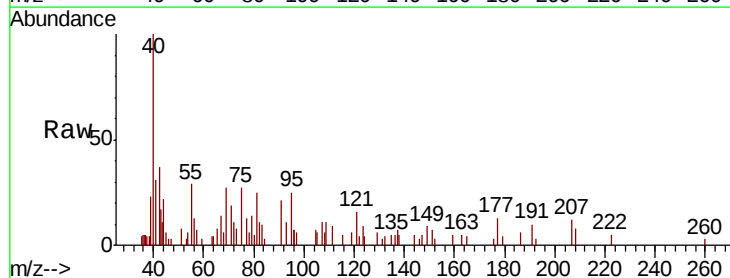
Tgt Ion: 42 Resp: 1907

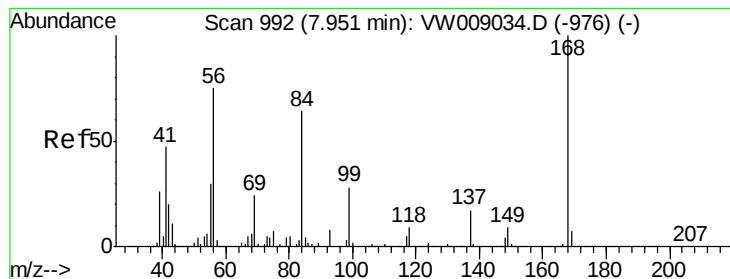
Ion Ratio Lower Upper

42 100

72 36.7 32.2 48.4

71 41.5 30.7 46.1





#31

Cyclohexane

Concen: 1.697 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampleId :

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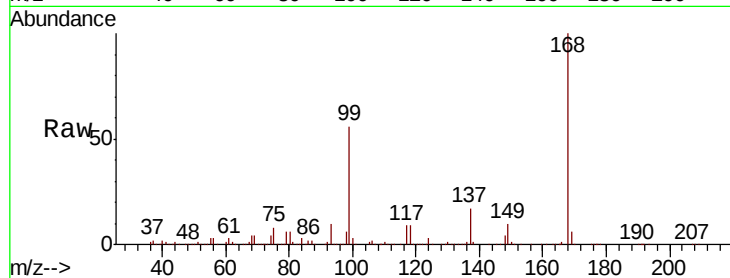
Tgt Ion: 56 Resp: 9260

Ion Ratio Lower Upper

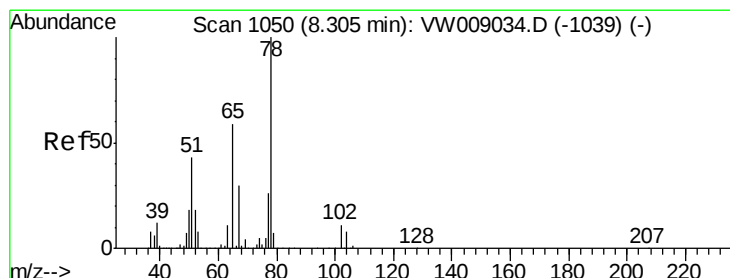
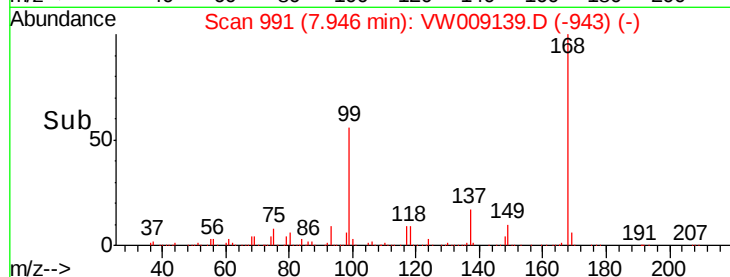
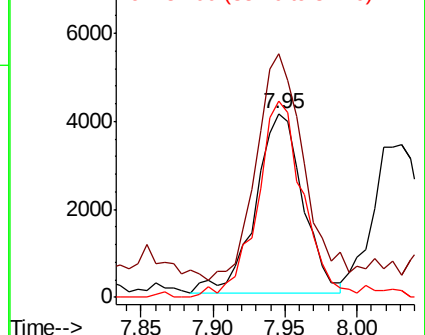
56 100

69 121.2 25.5 38.3#

84 110.0 68.6 103.0#



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: 58.511 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009139.D

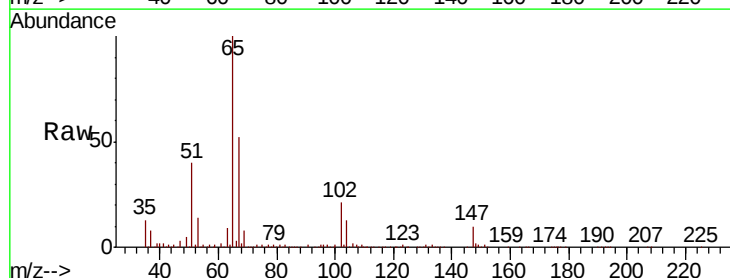
Acq: 13 Mar 2019 06:42

Tgt Ion: 65 Resp: 171177

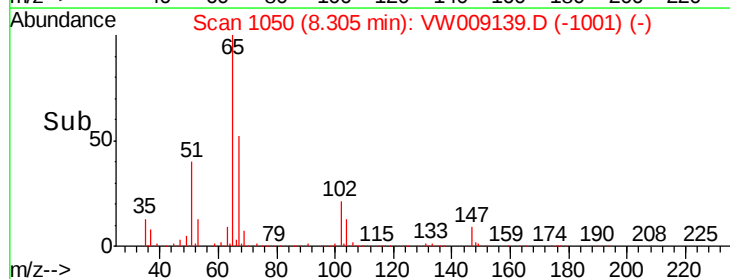
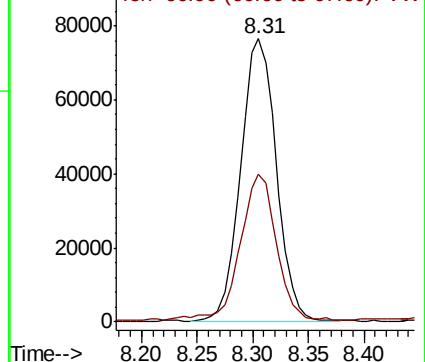
Ion Ratio Lower Upper

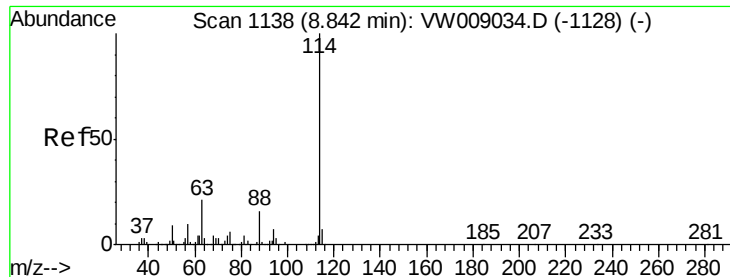
65 100

67 52.0 0.0 103.0



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

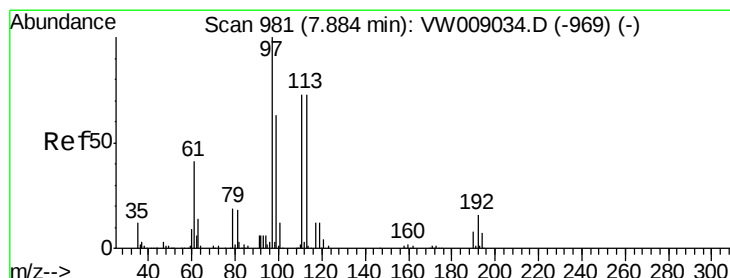
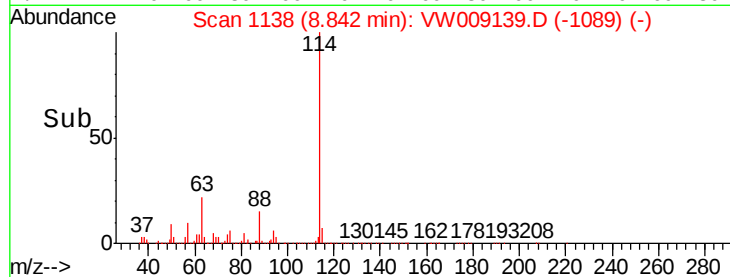
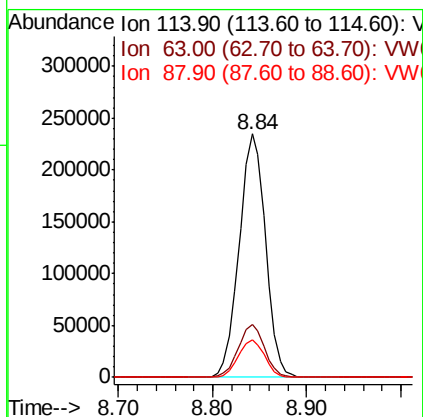
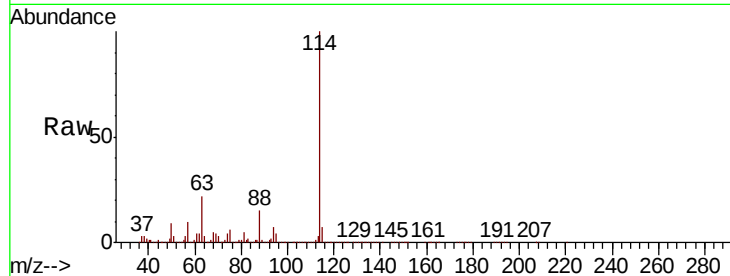




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

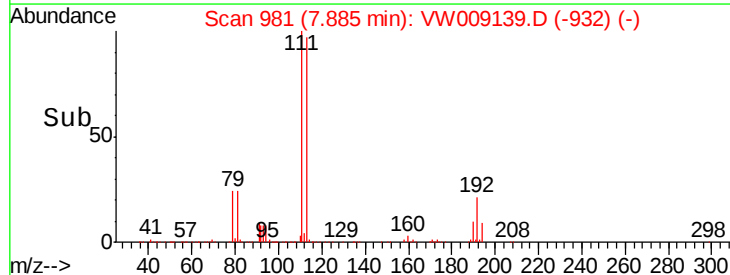
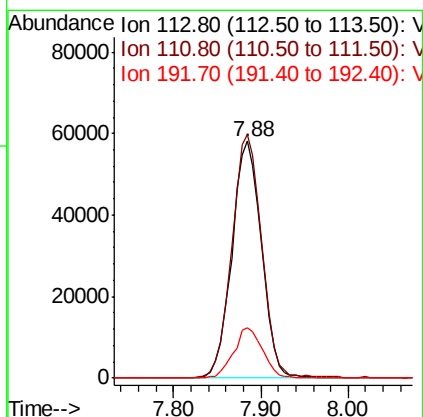
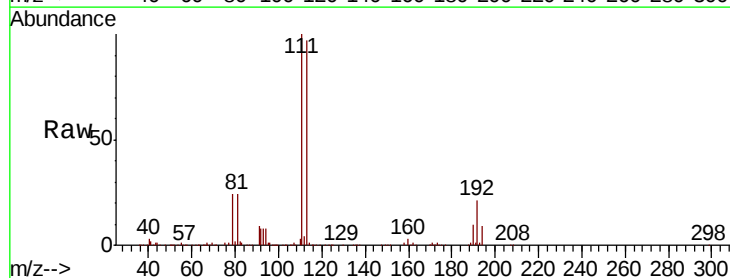
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1RE

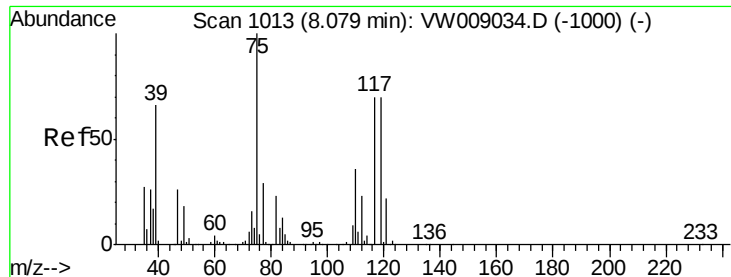
Tgt Ion:114 Resp: 458848
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 41.2
 88 15.2 0.0 31.2



#35
 Dibromofluoromethane
 Concen: 49.394 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

Tgt Ion:113 Resp: 136460
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.0 121.4
 192 20.9 17.1 25.7

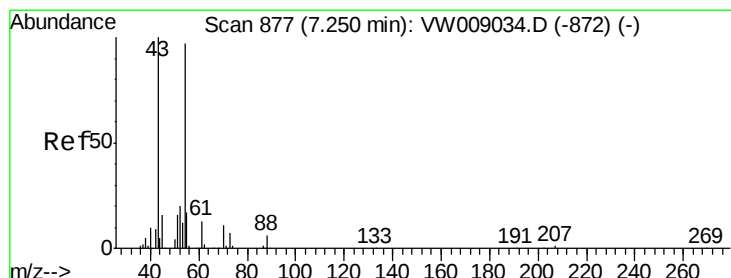
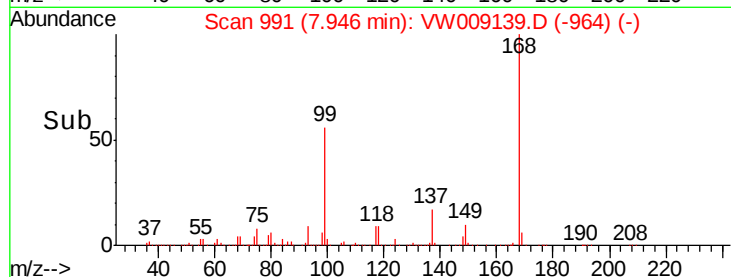
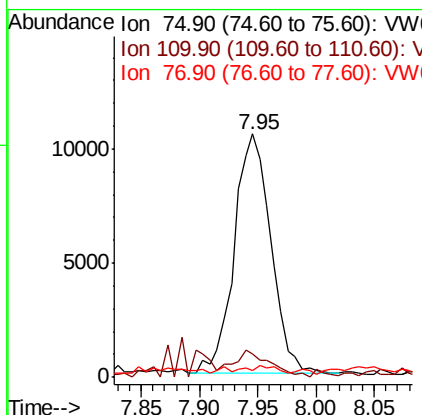
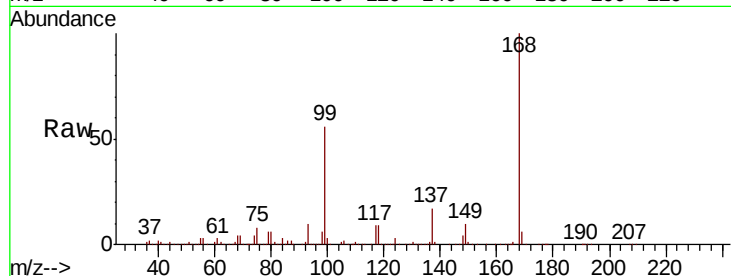




#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

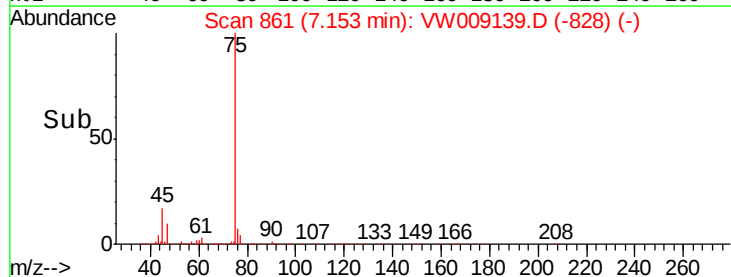
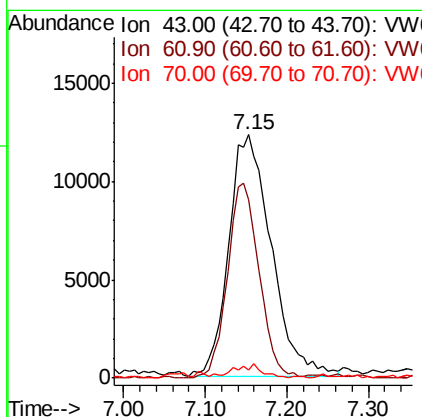
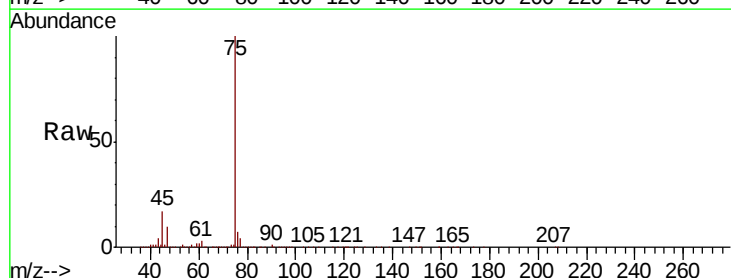
Instrument :
 MSVOA_W
 ClientSampled :
 TP-1RE

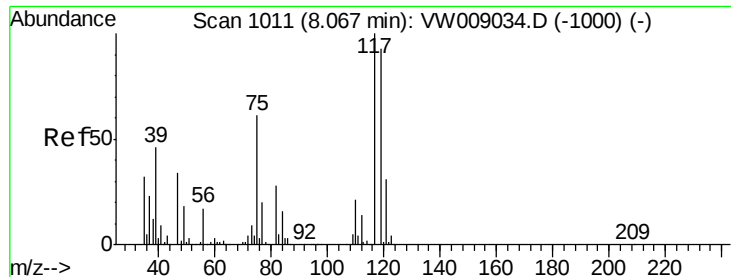
Tgt Ion: 75 Resp: 23159
 Ion Ratio Lower Upper
 75 100
 110 11.3 17.6 52.9#
 77 1.9 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 19.747 ug/l
 RT: 7.15 min Scan# 861
 Delta R.T. -0.10 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

Tgt Ion: 43 Resp: 44501
 Ion Ratio Lower Upper
 43 100
 61 59.5 9.8 14.6#
 70 3.6 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 5.913 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampled :

TP-1RE

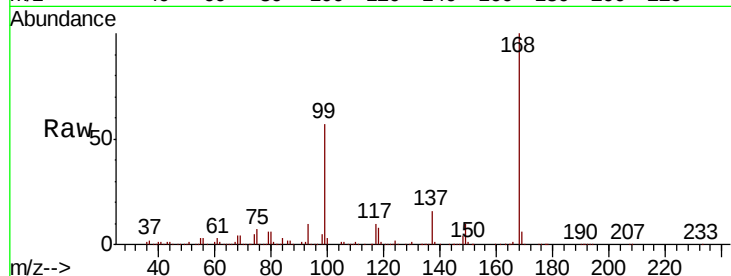
Tgt Ion:117 Resp: 29300

Ion Ratio Lower Upper

117 100

119 5.2 74.6 112.0#

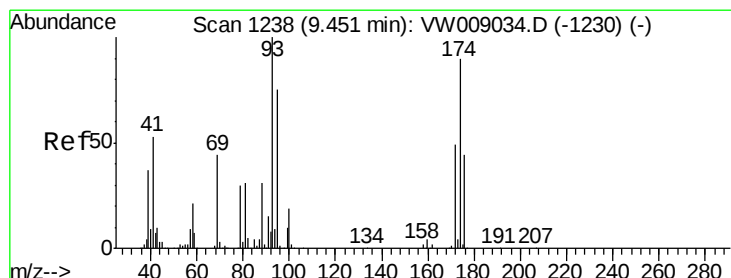
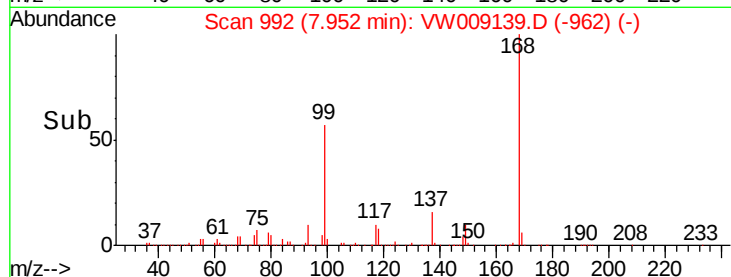
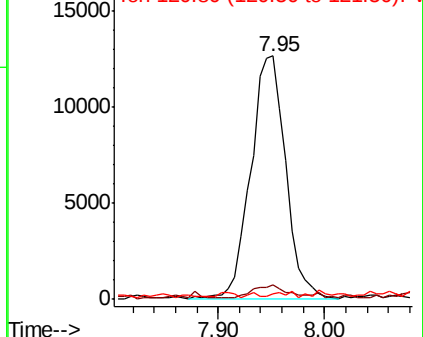
121 0.7 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.036 ug/l

RT: 9.58 min Scan# 1259

Delta R.T. 0.13 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

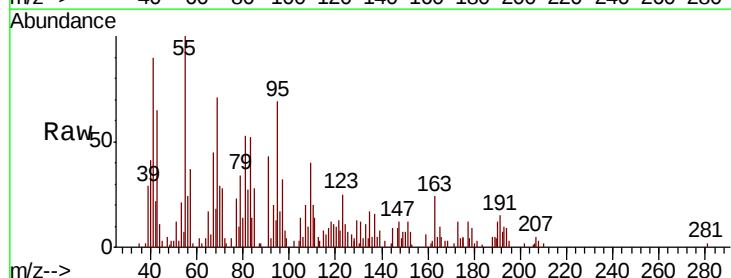
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 3223.1 29.0 43.4#

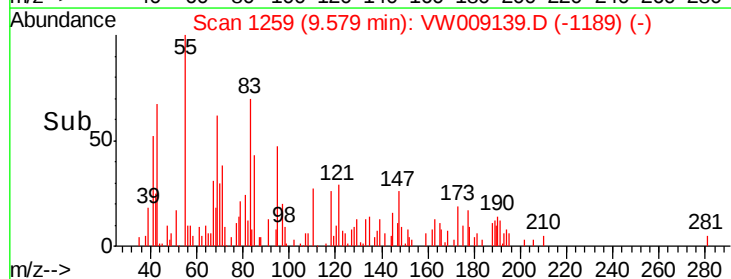
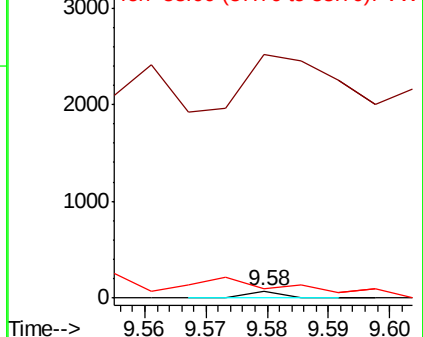
58 830.8 59.2 88.8#

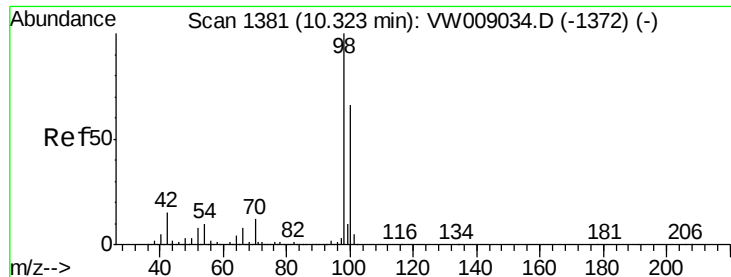


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 46.434 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampleId :

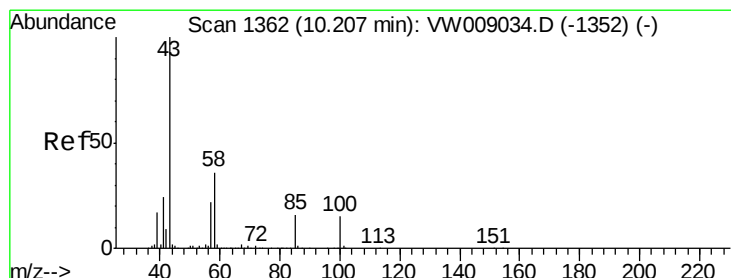
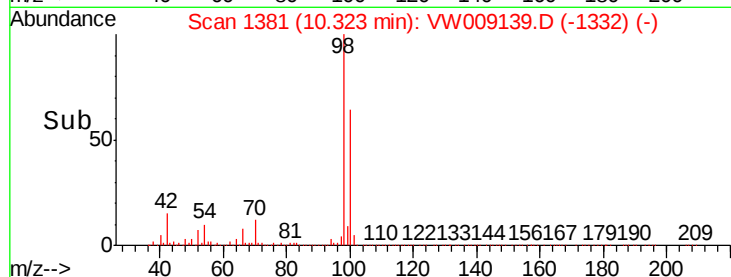
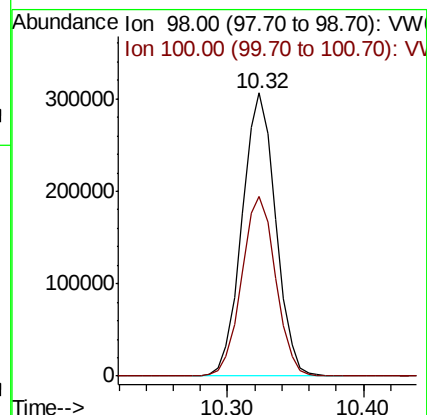
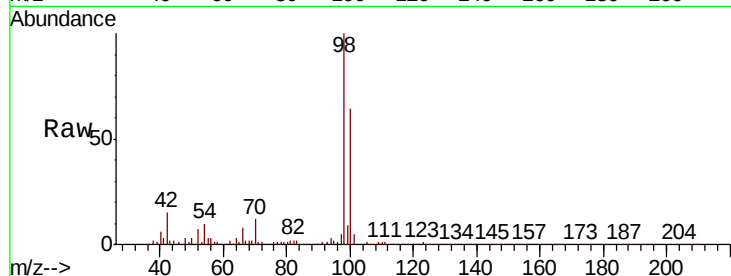
TP-1RE

Tgt Ion: 98 Resp: 526871

Ion Ratio Lower Upper

98 100

100 64.3 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.773 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009139.D

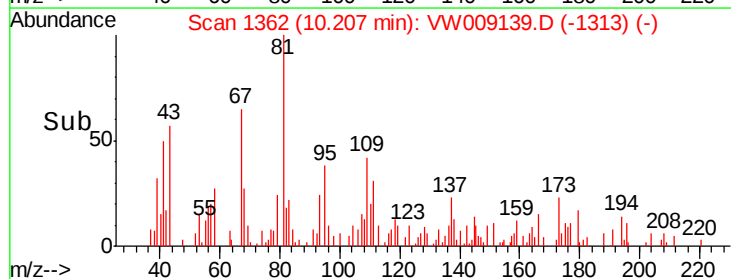
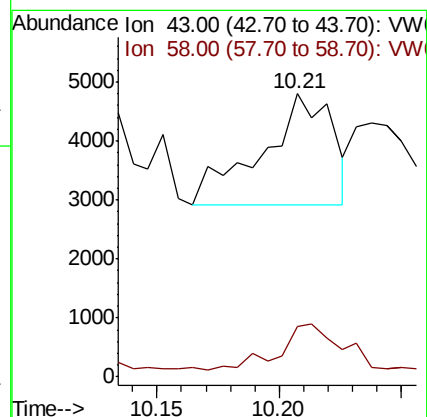
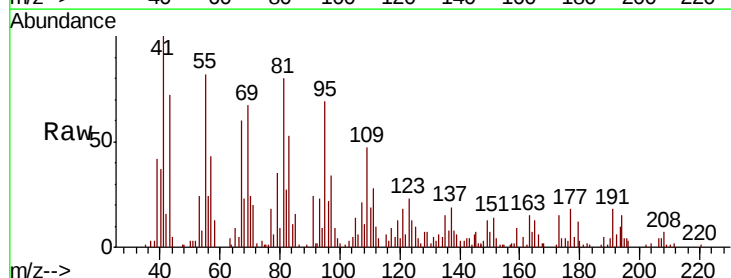
Acq: 13 Mar 2019 06:42

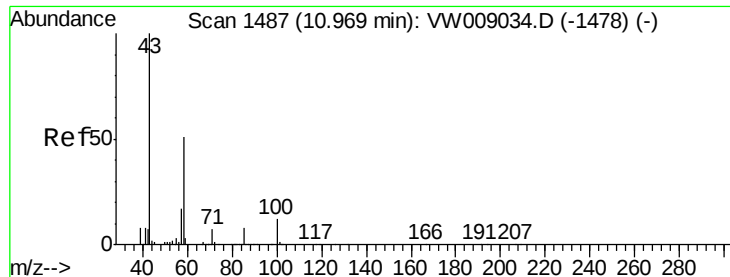
Tgt Ion: 43 Resp: 3778

Ion Ratio Lower Upper

43 100

58 35.9 28.8 43.2

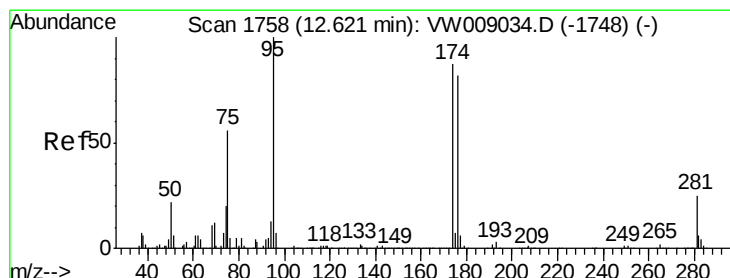
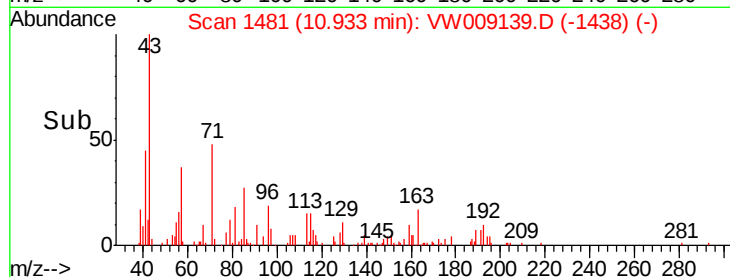
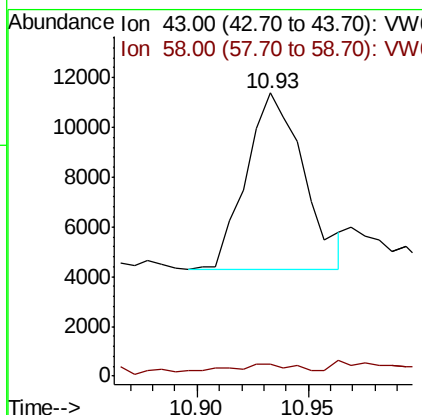
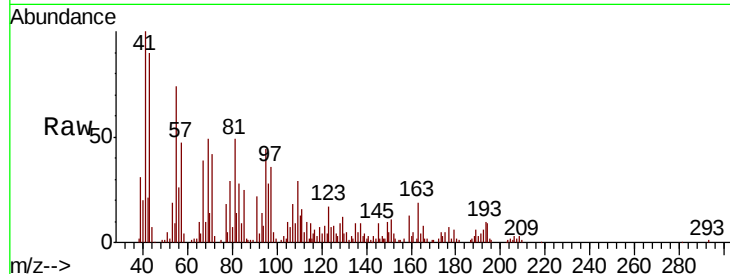




#59
2-Hexanone
Concen: 8.420 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

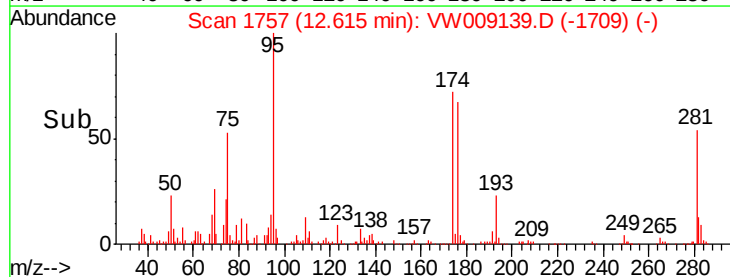
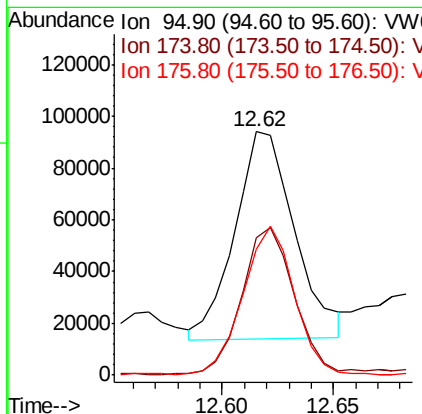
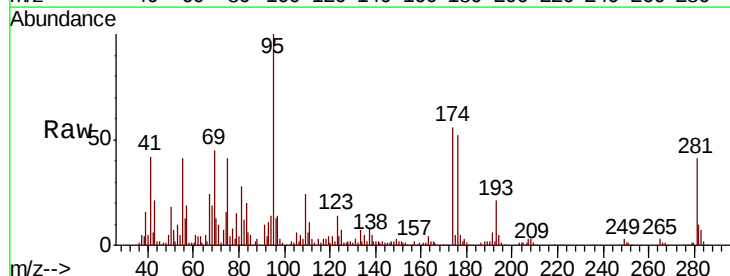
Instrument :
MSVOA_W
ClientSampled :
TP-1RE

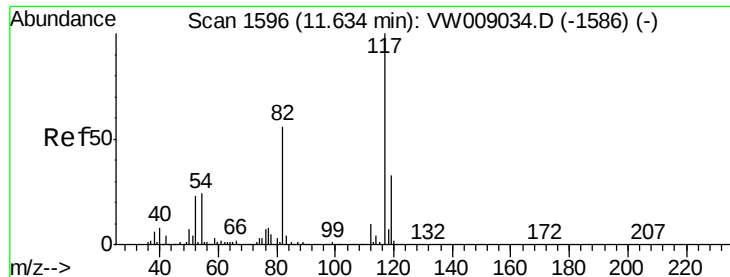
Tgt Ion: 43 Resp: 12614
Ion Ratio Lower Upper
43 100
58 5.4 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 33.513 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

Tgt Ion: 95 Resp: 149693
Ion Ratio Lower Upper
95 100
174 62.5 0.0 167.0
176 60.9 0.0 159.4

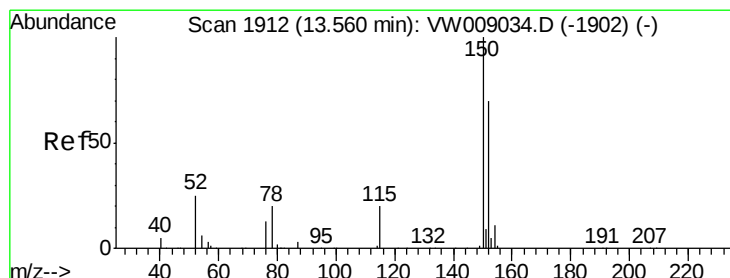
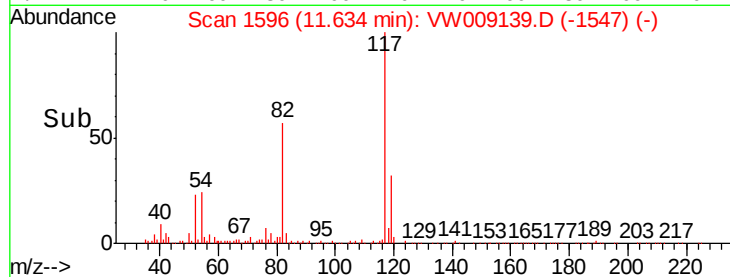
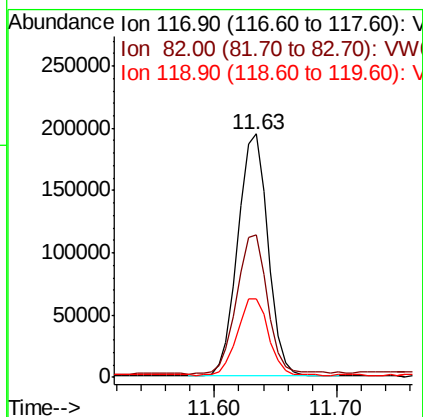
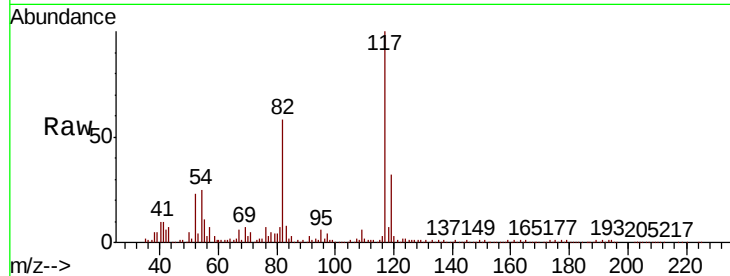




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

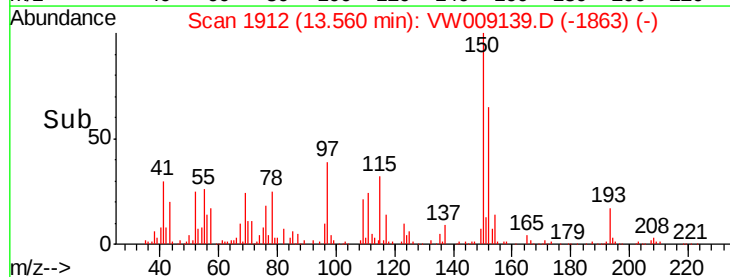
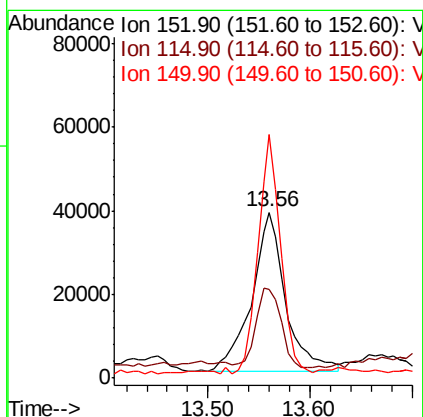
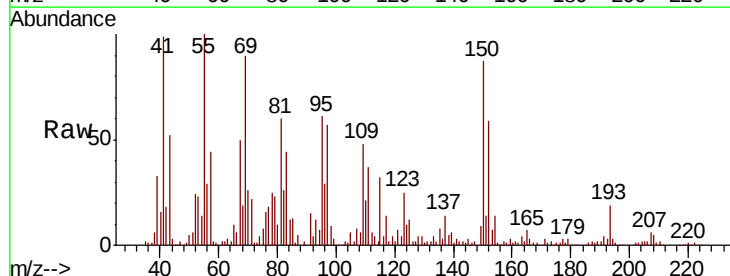
Instrument :
MSVOA_W
ClientSampled :
TP-1RE

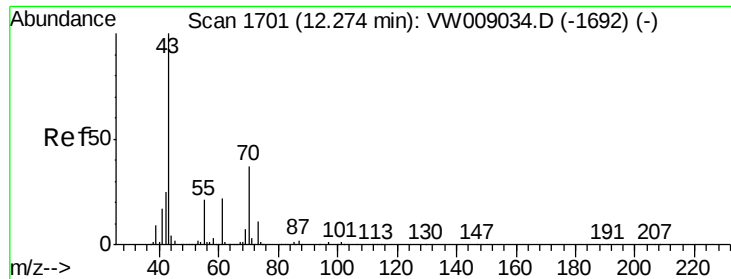
Tgt Ion:117 Resp: 334246
Ion Ratio Lower Upper
117 100
82 57.4 45.0 67.6
119 31.2 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009139.D
Acq: 13 Mar 2019 06:42

Tgt Ion:152 Resp: 88674
Ion Ratio Lower Upper
152 100
115 36.3 28.9 86.7
150 99.9 0.0 349.2





#74

N-amyI acetate

Concen: 34.743 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampleId :

TP-1RE

Tgt Ion: 43 Resp: 52227

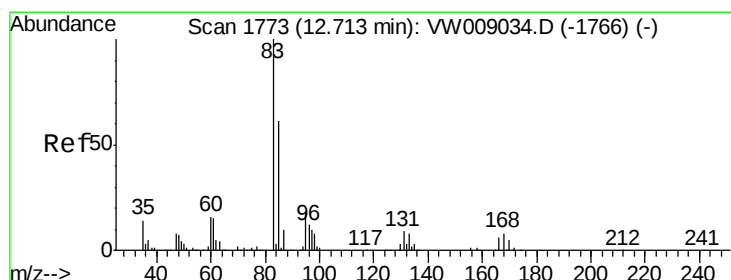
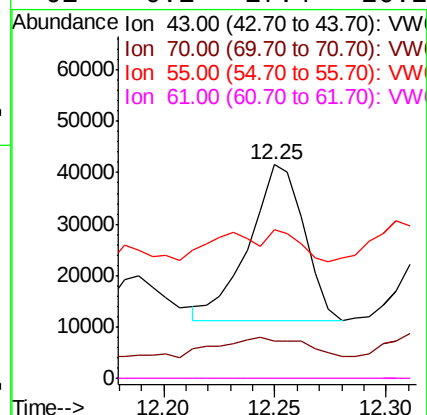
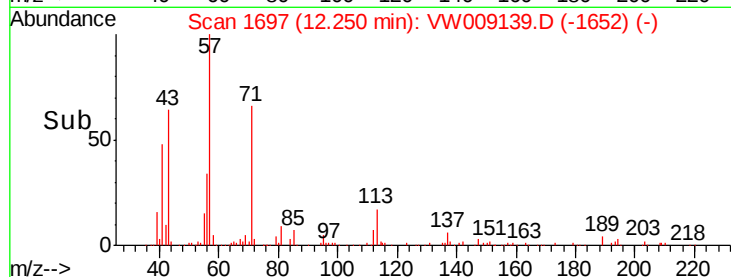
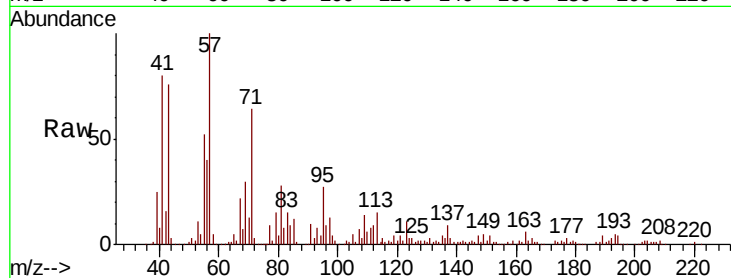
Ion Ratio Lower Upper

43 100

70 19.3 30.8 46.2#

55 11.1 17.8 26.8#

61 0.1 17.4 26.2#



#75

1,1,2,2-Tetrachloroethane

Concen: 11.731 ug/l

RT: 12.44 min Scan# 1728

Delta R.T. -0.27 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

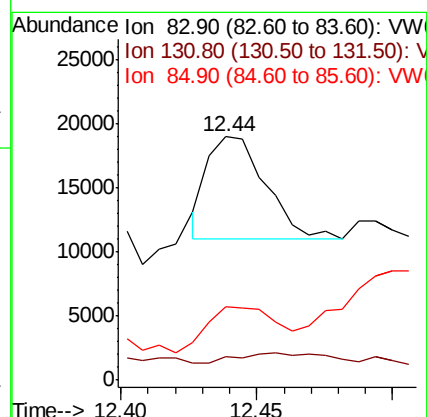
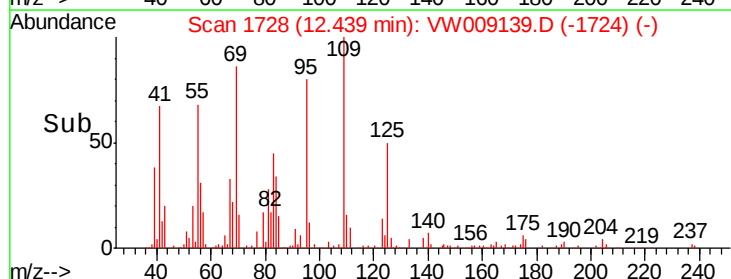
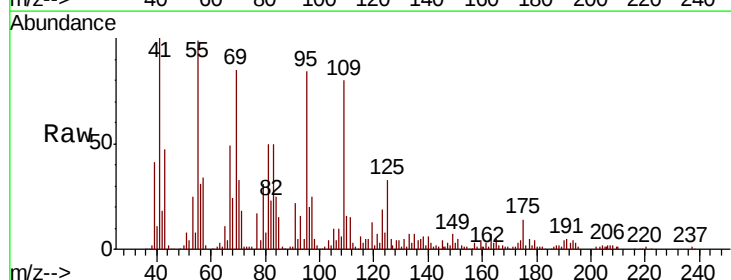
Tgt Ion: 83 Resp: 11751

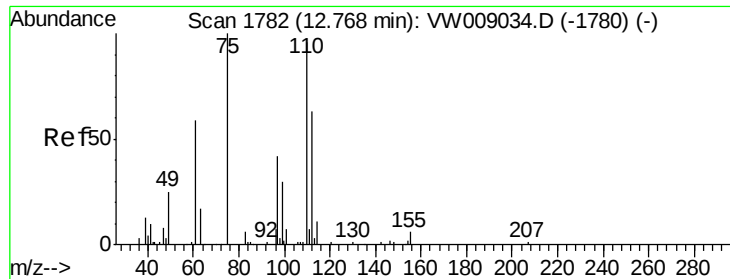
Ion Ratio Lower Upper

83 100

131 15.3 5.5 16.7

85 37.2 31.7 95.1

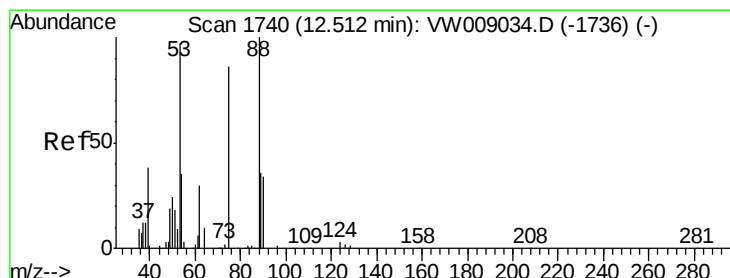
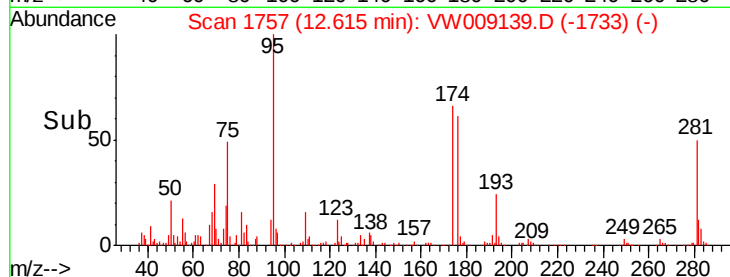
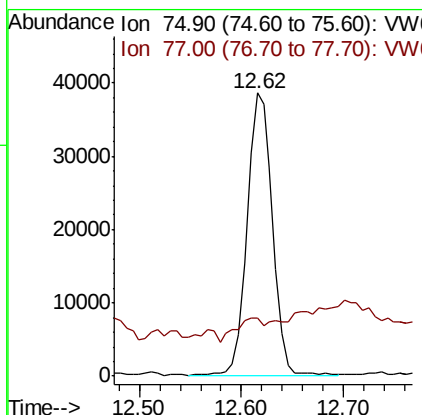
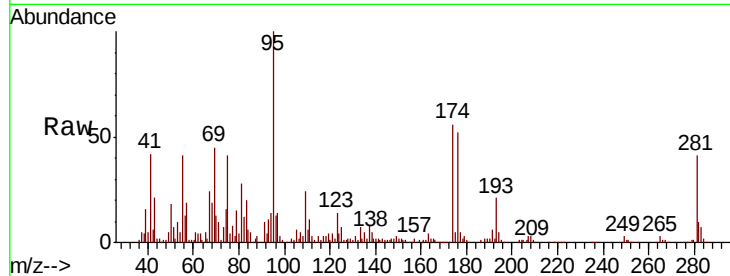




#76
 1,2,3-Trichloropropane
 Concen: 95.007 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

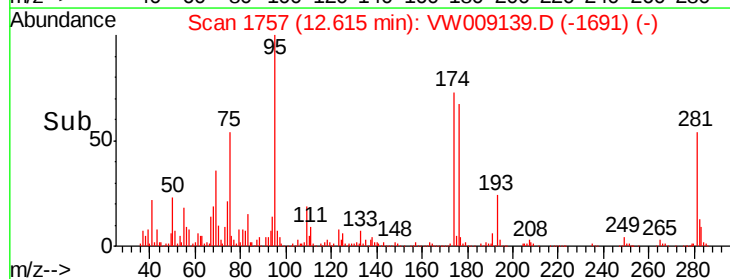
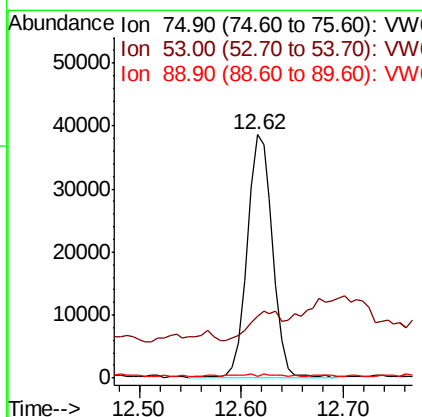
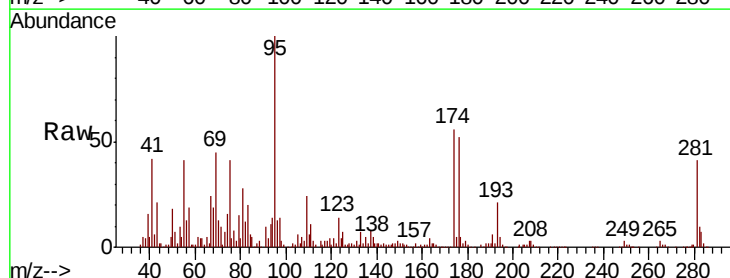
Instrument :
 MSVOA_W
 ClientSampled :
 TP-1RE

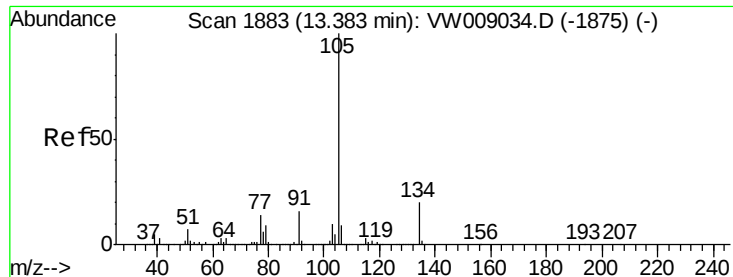
Tgt Ion: 75 Resp: 66562
 Ion Ratio Lower Upper
 75 100
 77 8.9 186.7 560.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 212.507 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

Tgt Ion: 75 Resp: 66562
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 1.3 37.5 56.3#

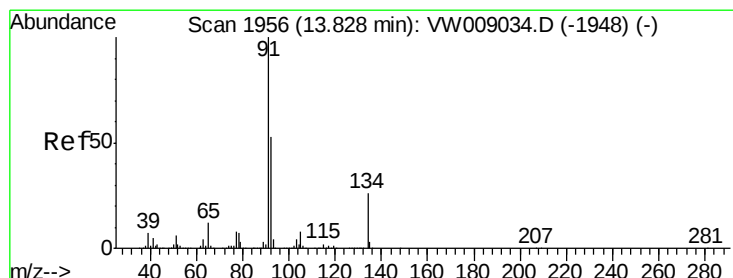
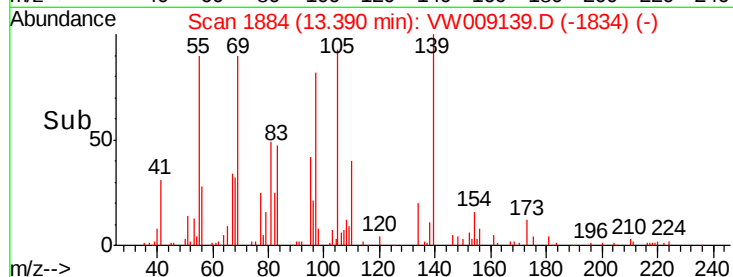
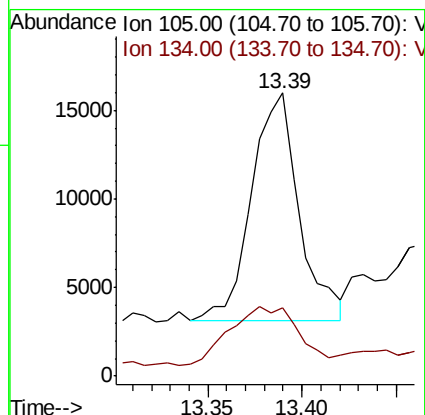
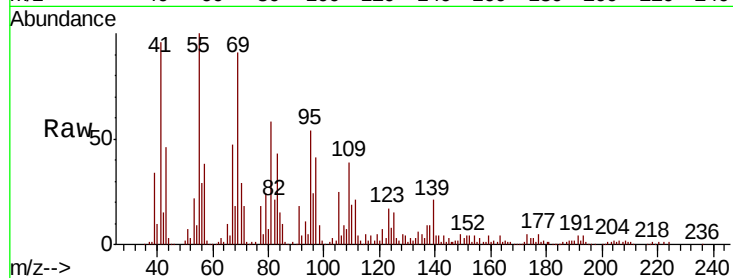




#85
 sec-Butylbenzene
 Concen: 3.311 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. 0.01 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

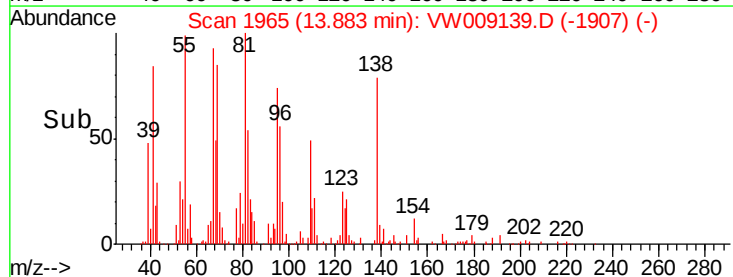
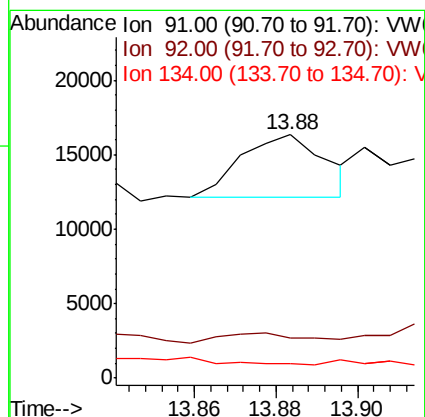
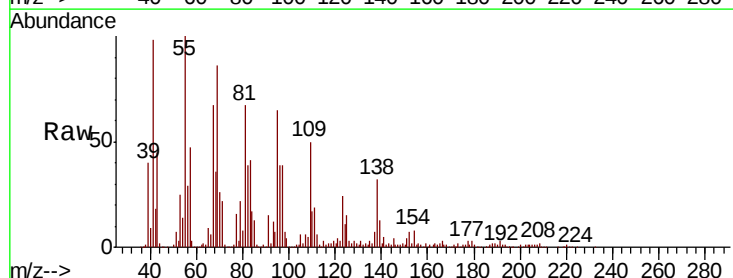
Instrument :
 MSVOA_W
 ClientSampled :
 TP-1RE

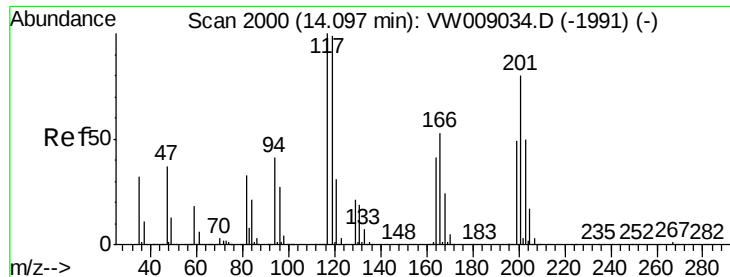
Tgt Ion: 105 Resp: 22644
 Ion Ratio Lower Upper
 105 100
 134 37.3 10.0 30.0#



#89
 n-Butylbenzene
 Concen: 1.048 ug/l
 RT: 13.88 min Scan# 1965
 Delta R.T. 0.06 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

Tgt Ion: 91 Resp: 6096
 Ion Ratio Lower Upper
 91 100
 92 15.6 26.8 80.3#
 134 10.3 12.9 38.7#





#90

Hexachloroethane

Concen: 1.815 ug/l

RT: 14.04 min Scan# 1990

Delta R.T. -0.06 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

Instrument :

MSVOA_W

ClientSampleId :

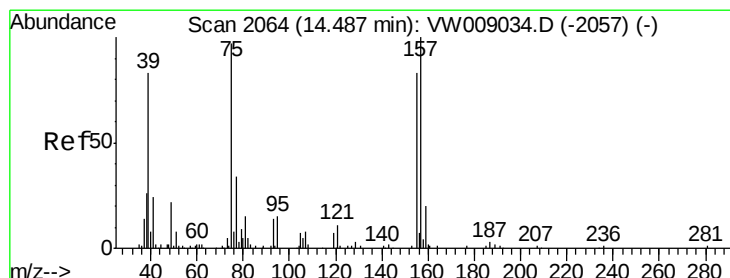
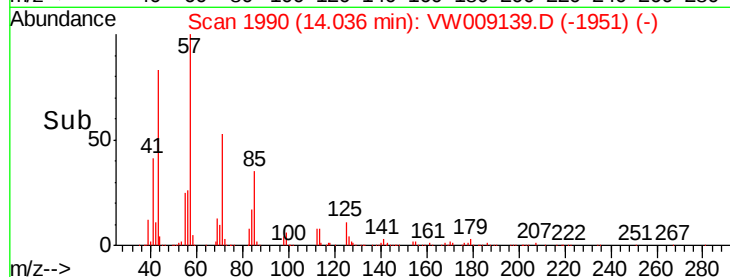
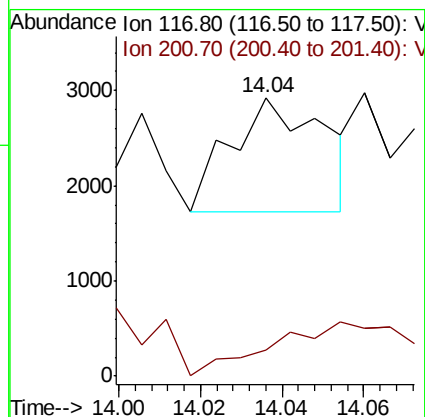
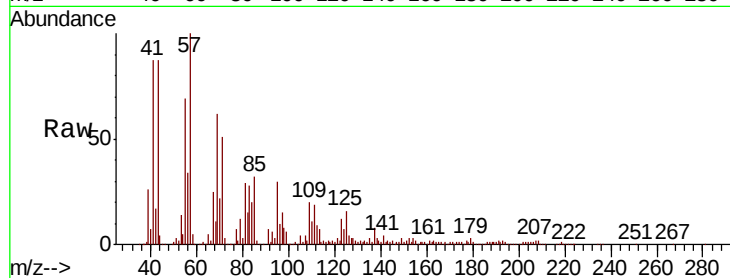
TP-1RE

Tgt Ion:117 Resp: 1915

Ion Ratio Lower Upper

117 100

201 47.4 39.1 117.5



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.372 ug/l

RT: 14.53 min Scan# 2071

Delta R.T. 0.04 min

Lab File: VW009139.D

Acq: 13 Mar 2019 06:42

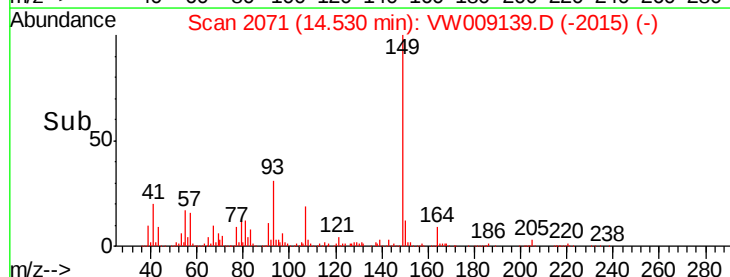
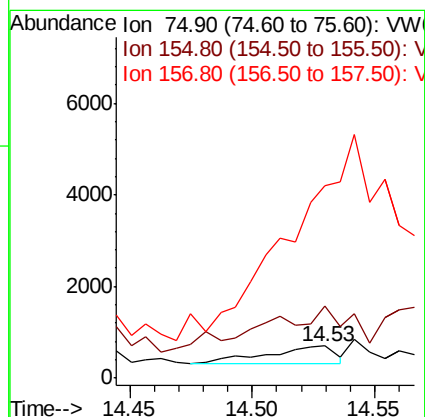
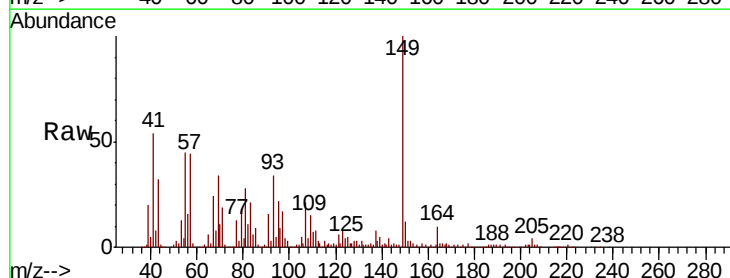
Tgt Ion: 75 Resp: 780

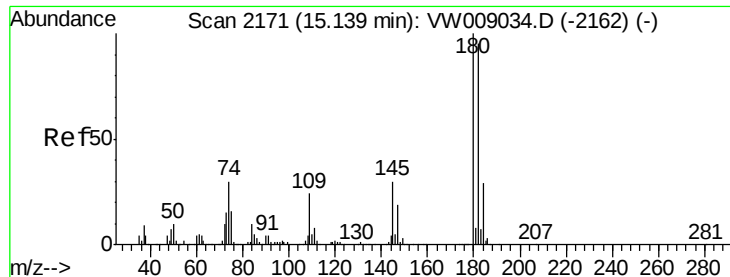
Ion Ratio Lower Upper

75 100

155 84.0 40.8 122.4

157 1924.0 52.4 157.3#

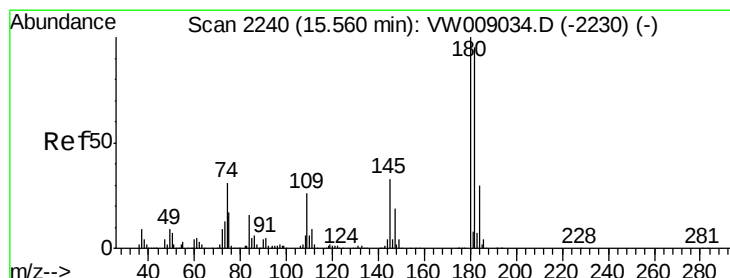
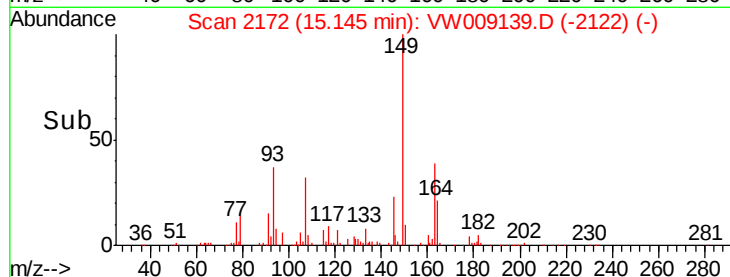
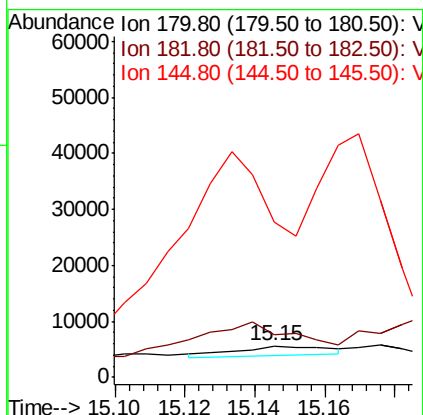
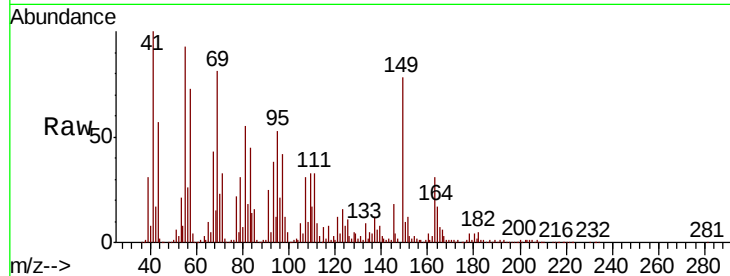




#93
 1,2,4-Trichlorobenzene
 Concen: 1.529 ug/l
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.01 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1RE

Tgt Ion:180 Resp: 2778
 Ion Ratio Lower Upper
 180 100
 182 520.7 48.1 144.3#
 145 3145.9 15.4 46.1#



#96
 1,2,3-Trichlorobenzene
 Concen: 10.369 ug/l
 RT: 15.58 min Scan# 2244
 Delta R.T. 0.02 min
 Lab File: VW009139.D
 Acq: 13 Mar 2019 06:42

Tgt Ion:180 Resp: 16566
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.1 144.3#
 145 0.0 15.8 47.3#

