

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082918\
 Data File : VW005008.D
 Acq On : 30 Aug 2018 05:37
 Operator : SY/AP
 Sample : J4274-05RE
 Misc : 6.64G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-082718RE

Quant Time: Aug 30 08:41:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 30 01:51:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	5998	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	10342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	12812	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	10486	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	3519	85.77	ug/l	0.00
Spiked Amount			Recovery	=	171.54%	
35) Dibromofluoromethane	7.90	113	870	16.98	ug/l	0.00
Spiked Amount			Recovery	=	33.96%	
50) Toluene-d8	10.32	98	11528	40.97	ug/l	0.00
Spiked Amount			Recovery	=	81.94%	
62) 4-Bromofluorobenzene	12.63	95	5503	53.64	ug/l	0.00
Spiked Amount			Recovery	=	107.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	3113	42.301	ug/l	91
5) Bromomethane	2.78	94	1394	29.032	ug/l #	21
6) Chloroethane	2.79	64	1229047	28294.484	ug/l #	50
8) Diethyl Ether	3.70	74	238	11.021	ug/l	52
10) Methyl Iodide	4.27	142	1051	16.463	ug/l #	87
11) Tert butyl alcohol	5.13	59	311	104.614	ug/l #	73
12) 1,1-Dichloroethene	4.06	96	133	3.037	ug/l #	1
13) Acrolein	3.91	56	59	16.864	ug/l #	74
15) Acrylonitrile	5.42	53	22	1.998	ug/l #	63
16) Acetone	4.21	43	10657	1151.801	ug/l	98
17) Carbon Disulfide	4.37	76	630	3.422	ug/l #	74
18) Methyl Acetate	4.71	43	363	16.197	ug/l	90
19) Methyl tert-butyl Ether	5.44	73	393	4.176	ug/l #	54
20) Methylene Chloride	4.90	84	616	5.305	ug/l #	87
21) trans-1,2-Dichloroethene	5.42	96	117	2.460	ug/l #	1
23) Vinyl Acetate	6.26	43	115	1.634	ug/l #	70
25) 2-Butanone	7.18	43	163	11.297	ug/l #	45
26) 2,2-Dichloropropane	7.17	77	646	8.836	ug/l #	51
29) Tetrahydrofuran	7.57	42	490	67.227	ug/l #	52
30) Chloroform	7.68	83	94	1.147	ug/l #	17
31) Cyclohexane	7.96	56	365	4.134	ug/l #	43
37) Ethyl Acetate	7.30	43	144	4.559	ug/l #	85
38) Carbon Tetrachloride	7.94	117	563	6.639	ug/l #	11
39) Methylcyclohexane	9.33	83	596	4.934	ug/l #	54
40) Benzene	8.33	78	1159	4.132	ug/l	93
41) Methacrylonitrile	7.50	41	231	12.550	ug/l #	21
43) Isopropyl Acetate	8.46	43	257	4.089	ug/l #	49
48) Methyl methacrylate	9.40	41	222	8.348	ug/l #	78
49) 1,4-Dioxane	9.55	88	448	710.746	ug/l #	61
51) 4-Methyl-2-Pentanone	10.21	43	443	9.411	ug/l #	34
52) Toluene	10.39	92	1613	7.751	ug/l	83
53) t-1,3-Dichloropropene	10.61	75	249	3.106	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	432	8.689	ug/l #	16
56) Ethyl methacrylate	10.66	69	127	1.948	ug/l #	1

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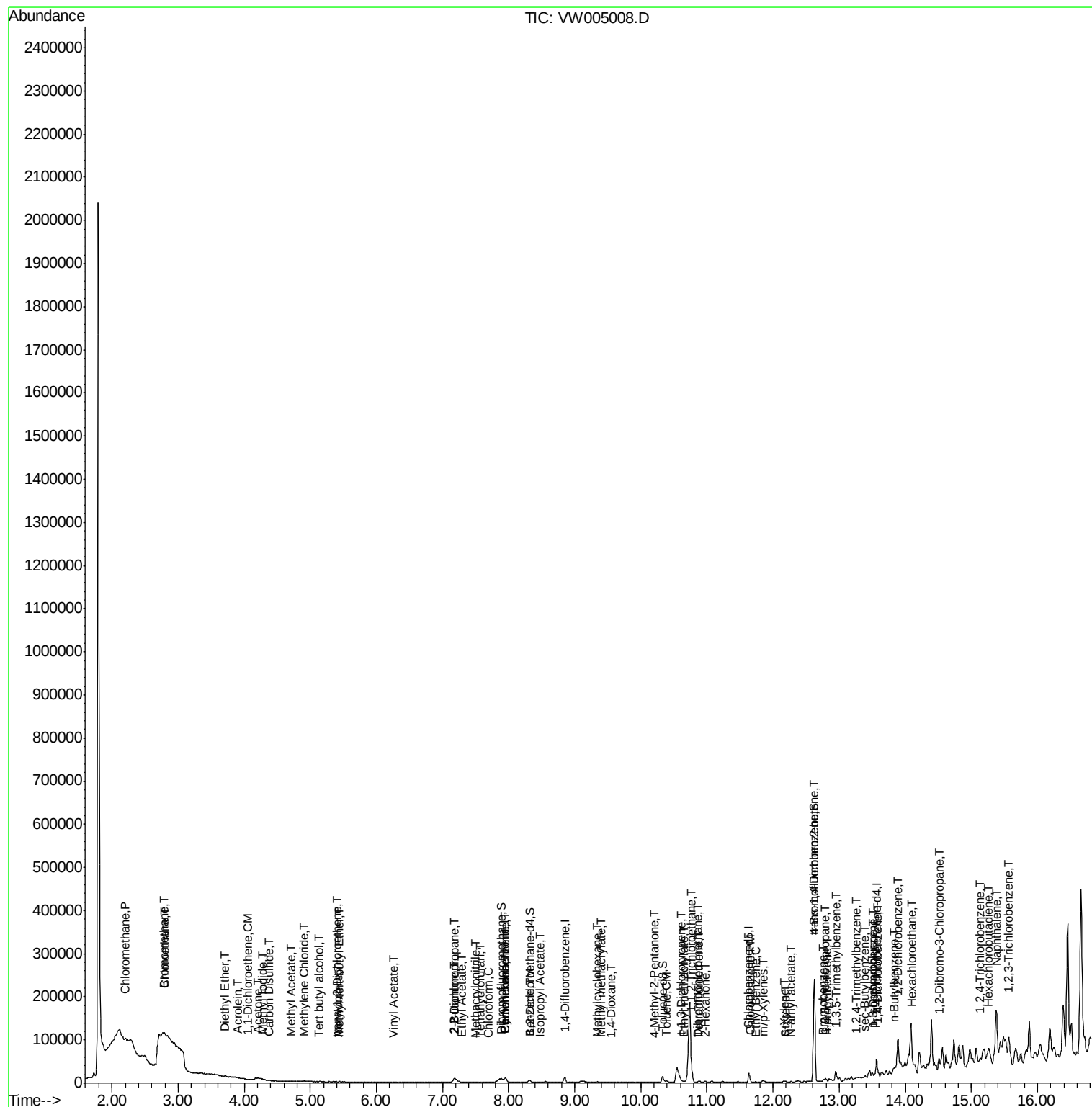
59) 2-Hexanone	10.98	43	847	24.852	ug/l #	47
60) Dibromochloromethane	10.86	129	245	4.490	ug/l #	11
64) Tetrachloroethene	10.87	164	321	3.436	ug/l #	55
65) Chlorobenzene	11.66	112	634	2.252	ug/l	91
67) Ethyl Benzene	11.74	91	974	2.021	ug/l #	82
68) m/p-Xylenes	11.85	106	1228	6.247	ug/l	97
69) o-Xylene	12.17	106	748	4.164	ug/l	81
70) Styrene	12.19	104	947	3.178	ug/l #	91
74) N-amyl acetate	12.27	43	1092	8.278	ug/l #	60
76) 1,2,3-Trichloropropane	12.78	75	296	3.986	ug/l #	100
77) Bromobenzene	12.76	156	417	2.431	ug/l #	20
78) n-propylbenzene	12.82	91	1513	1.755	ug/l	89
80) 1,3,5-Trimethylbenzene	12.96	105	1421	2.301	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	3488	106.143	ug/l #	26
84) 1,2,4-Trimethylbenzene	13.26	105	4571	7.294	ug/l	80
85) sec-Butylbenzene	13.40	105	1719	2.258	ug/l	83
86) p-Isopropyltoluene	13.51	119	962	1.410	ug/l #	71
87) 1,3-Dichlorobenzene	13.51	146	1287	3.540	ug/l #	78
88) 1,4-Dichlorobenzene	13.58	146	1523	4.229	ug/l #	63
89) n-Butylbenzene	13.83	91	2571	4.015	ug/l #	54
90) Hexachloroethane	14.11	117	613	5.717	ug/l #	5
91) 1,2-Dichlorobenzene	13.88	146	1131	3.534	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.51	75	96	5.252	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.14	180	2955	13.179	ug/l	94
94) Hexachlorobutadiene	15.24	225	441	3.142	ug/l	98
95) Naphthalene	15.38	128	104984	233.548	ug/l	99
96) 1,2,3-Trichlorobenzene	15.57	180	3609	18.220	ug/l #	1

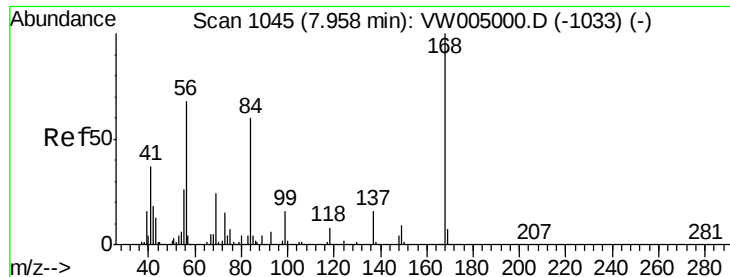
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

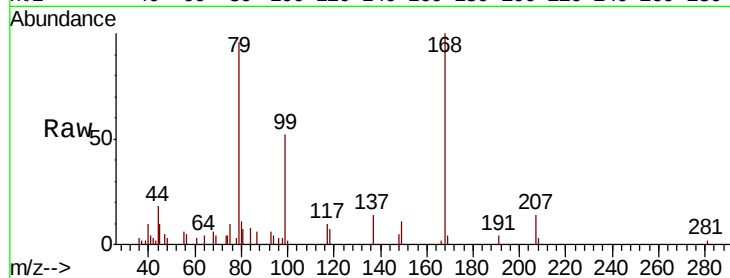
HD-01-082718RE

Tot Ion:168 Resp: 5998

Ion Ratio Lower Upper

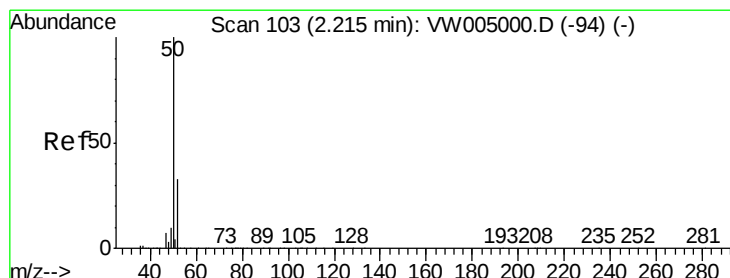
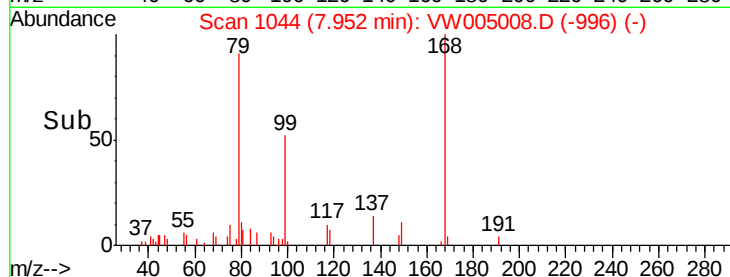
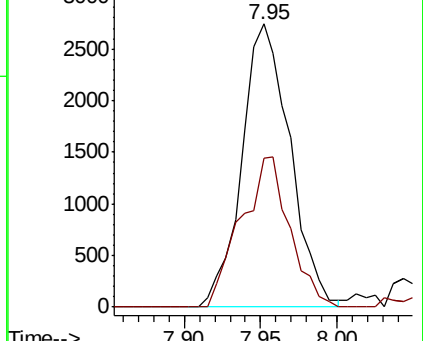
168 100

99 52.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 42.301 ug/l

RT: 2.21 min Scan# 102

Delta R.T. -0.01 min

Lab File: VW005008.D

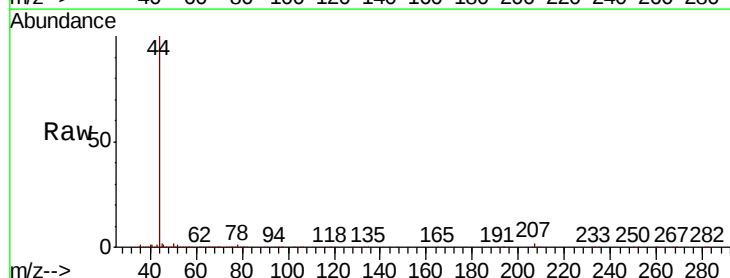
Acq: 30 Aug 2018 05:37

Tgt Ion: 50 Resp: 3113

Ion Ratio Lower Upper

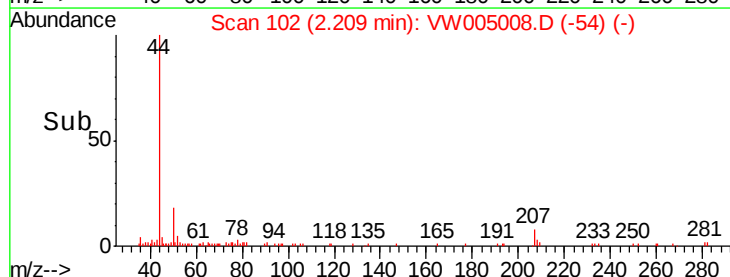
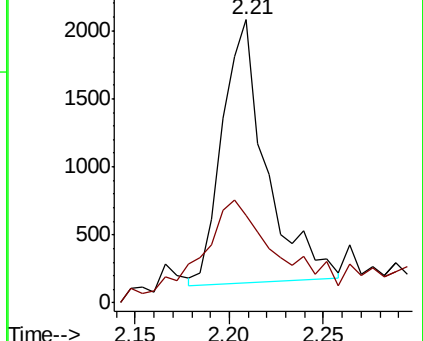
50 100

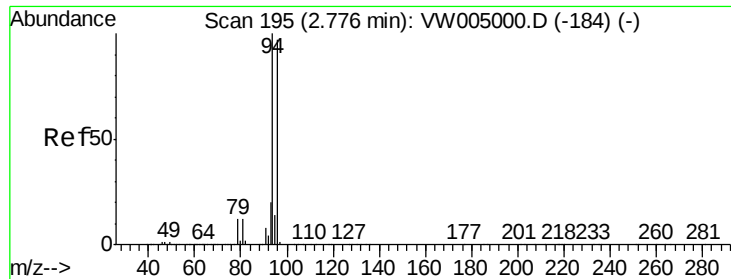
52 27.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 29.032 ug/l

RT: 2.78 min Scan# 196

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

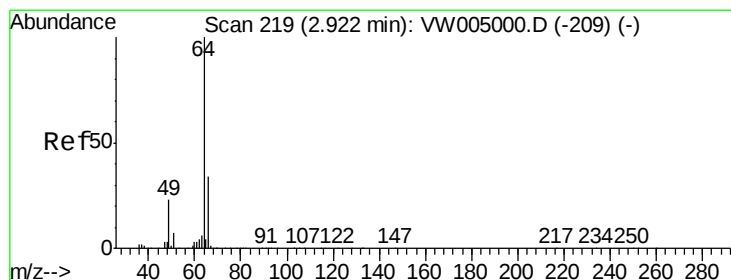
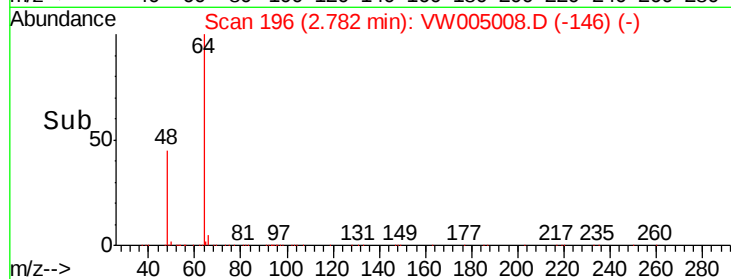
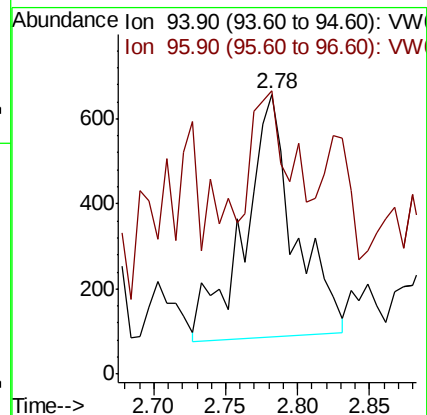
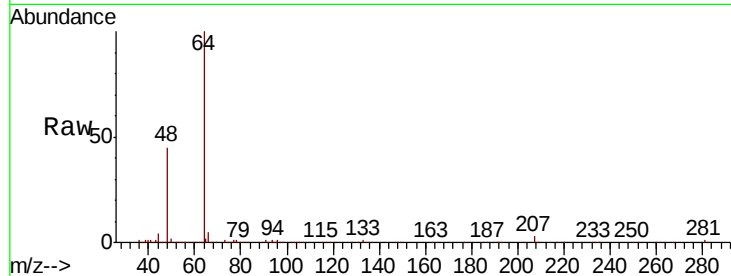
HD-01-082718RE

Tot Ion: 94 Resp: 1394

Ion Ratio Lower Upper

94 100

96 19.8 77.5 116.3#



#6

Chloroethane

Concen: 28294.484 ug/l

RT: 2.79 min Scan# 198

Delta R.T. -0.13 min

Lab File: VW005008.D

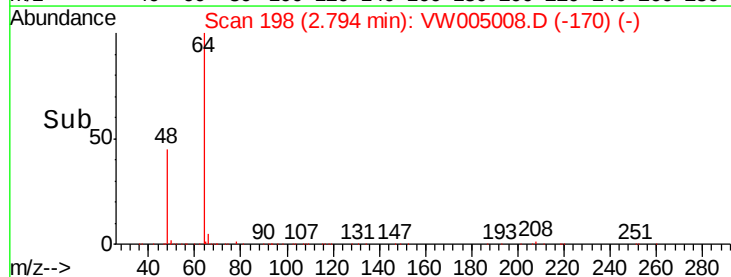
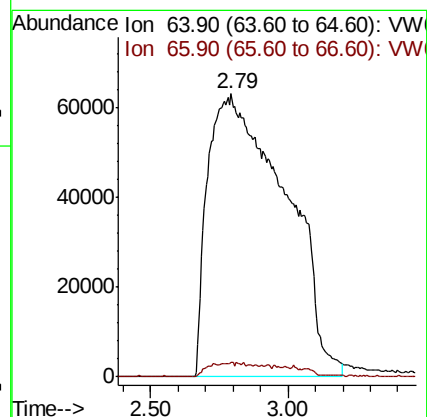
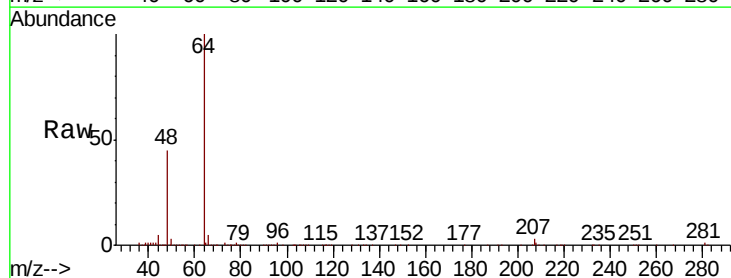
Acq: 30 Aug 2018 05:37

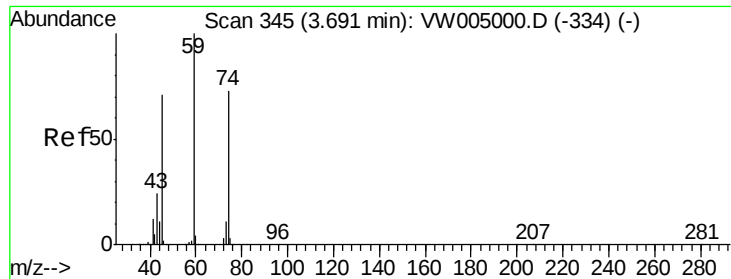
Tgt Ion: 64 Resp: 1229047

Ion Ratio Lower Upper

64 100

66 4.9 26.8 40.2#





#8

Diethyl Ether

Concen: 11.021 ug/l

RT: 3.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

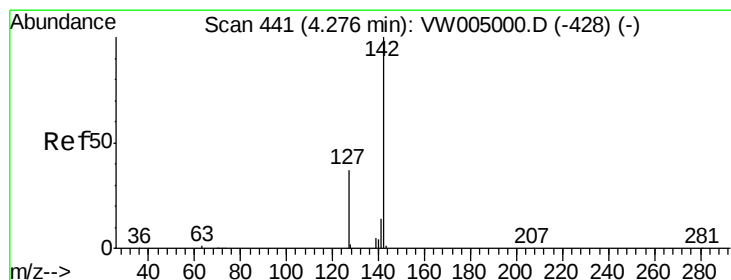
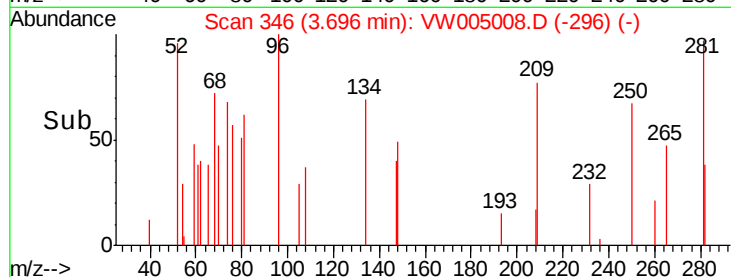
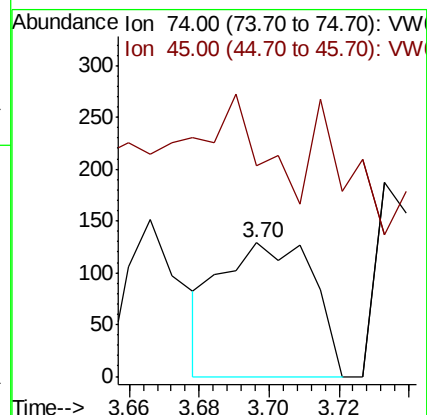
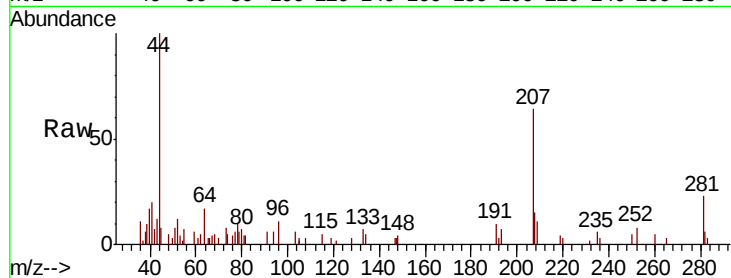
HD-01-082718RE

Tot Ion: 74 Resp: 238

Ion Ratio Lower Upper

74 100

45 48.3 47.8 143.3



#10

Methyl Iodide

Concen: 16.463 ug/l

RT: 4.27 min Scan# 440

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

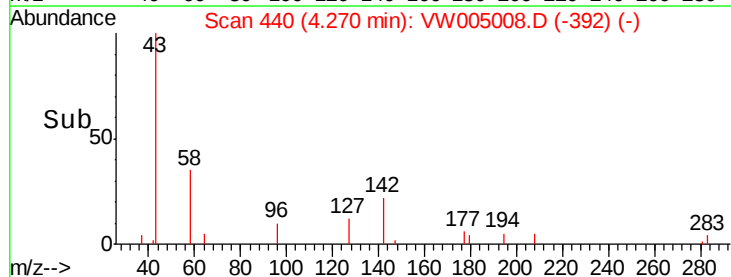
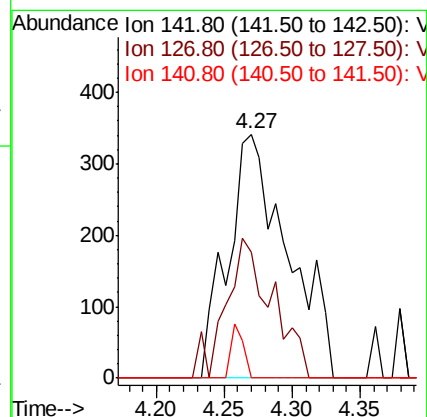
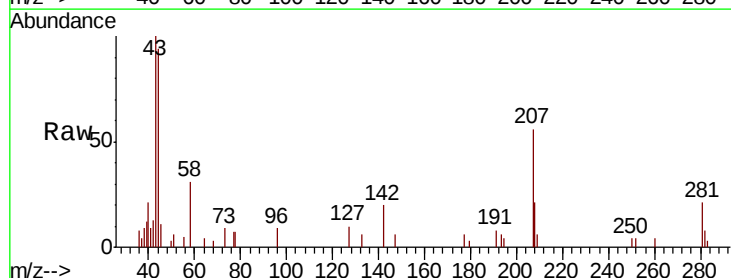
Tgt Ion: 142 Resp: 1051

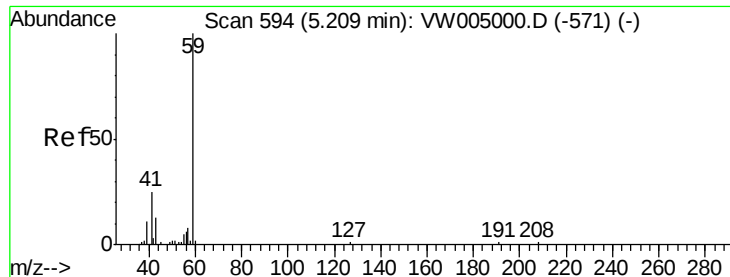
Ion Ratio Lower Upper

142 100

127 44.5 31.1 46.7

141 4.5 11.4 17.2#



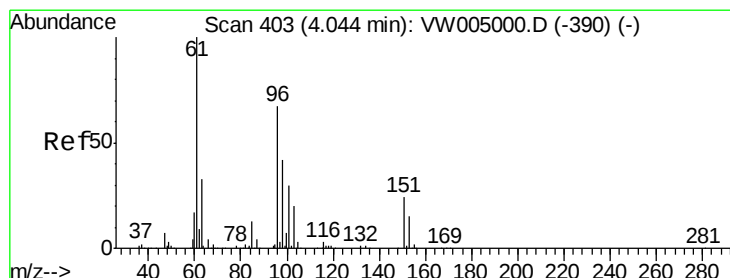
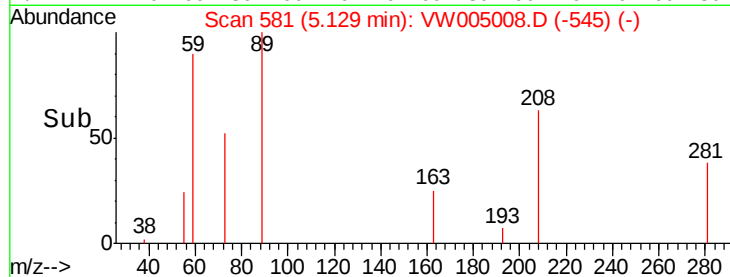
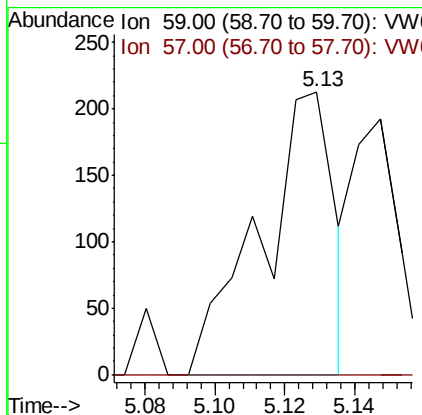
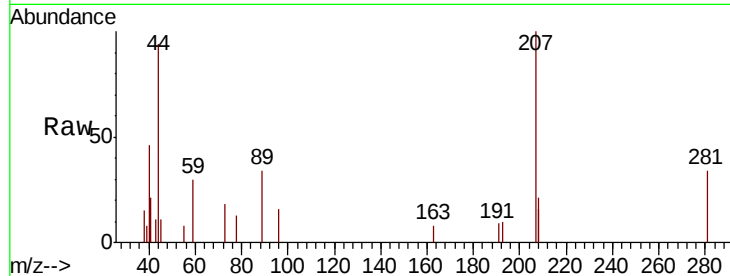


#11

Tert butyl alcohol
 Concen: 104.614 ug/l
 RT: 5.13 min Scan# 581
 Delta R.T. -0.08 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Instrument :
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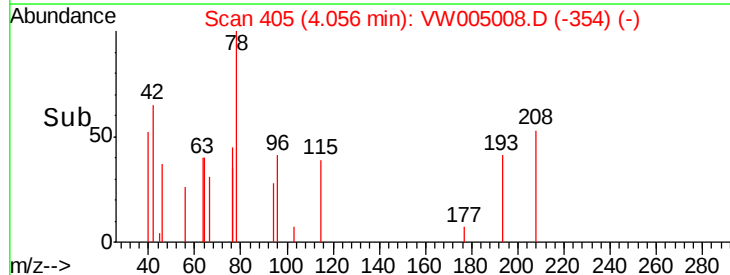
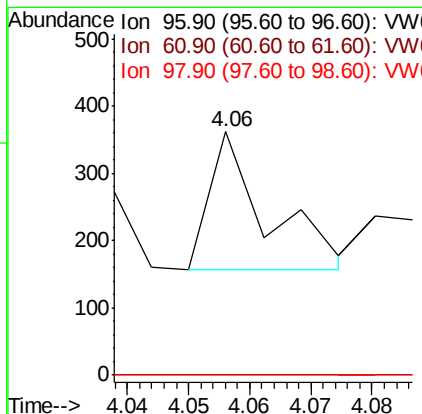
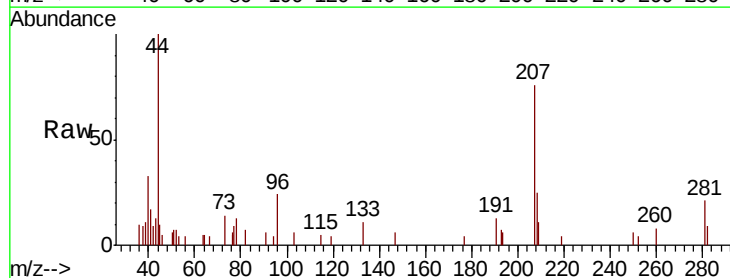
Tot Ion: 59 Resp: 311
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

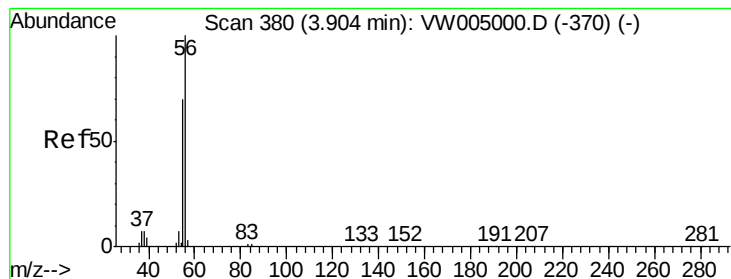


#12

1,1-Dichloroethene
 Concen: 3.037 ug/l
 RT: 4.06 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Tgt Ion: 96 Resp: 133
 Ion Ratio Lower Upper
 96 100
 61 0.0 119.5 179.3#
 98 0.0 50.4 75.6#





#13

Acrolein

Concen: 16.864 ug/l

RT: 3.91 min Scan# 381

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

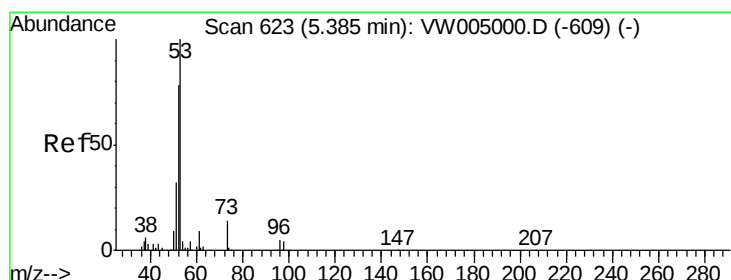
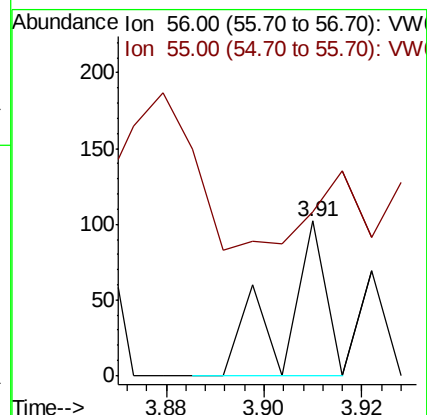
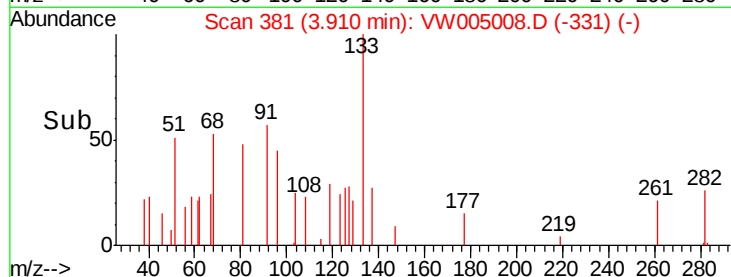
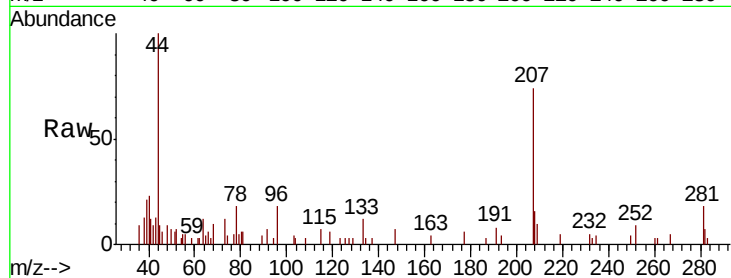
HD-01-082718RE

Tot Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 91.5 56.4 84.6#



#15

Acrylonitrile

Concen: 1.998 ug/l

RT: 5.42 min Scan# 629

Delta R.T. 0.04 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

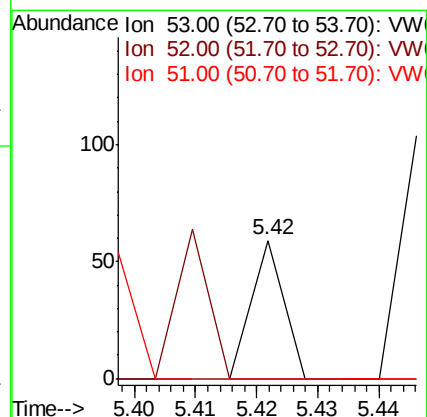
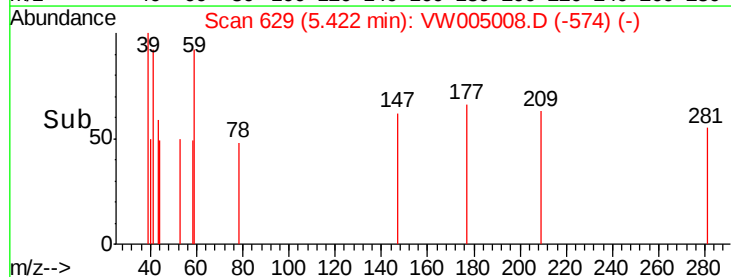
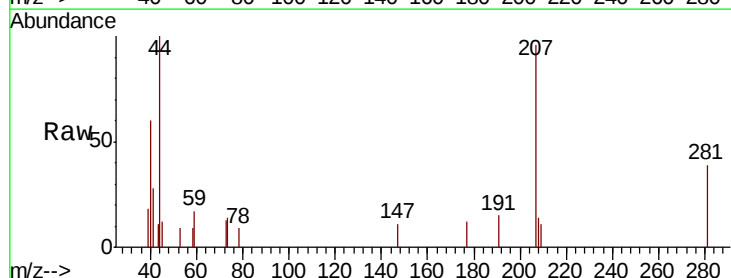
Tgt Ion: 53 Resp: 22

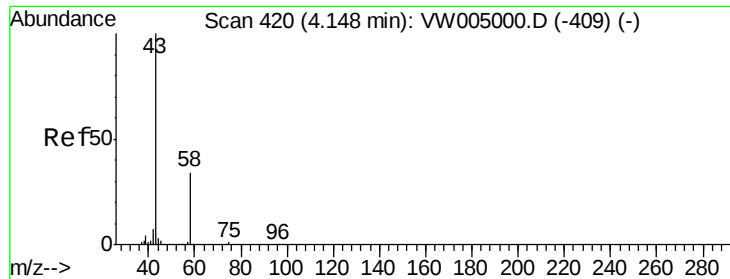
Ion Ratio Lower Upper

53 100

52 104.5 65.0 97.6#

51 0.0 28.6 43.0#

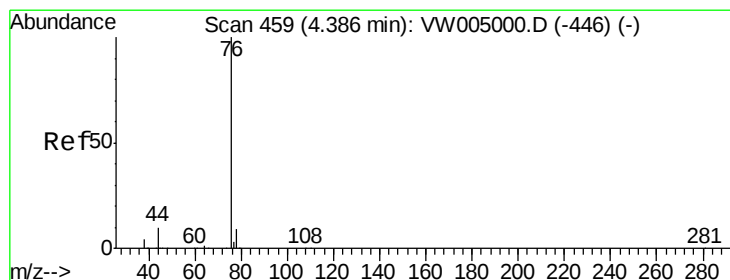
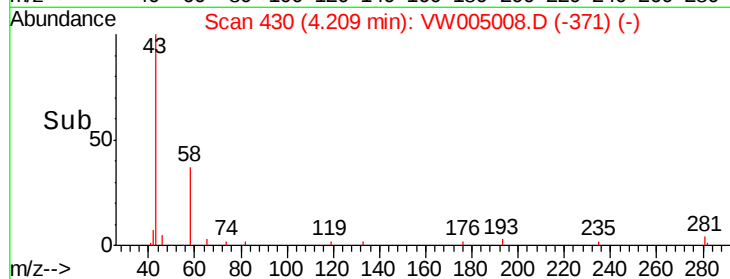
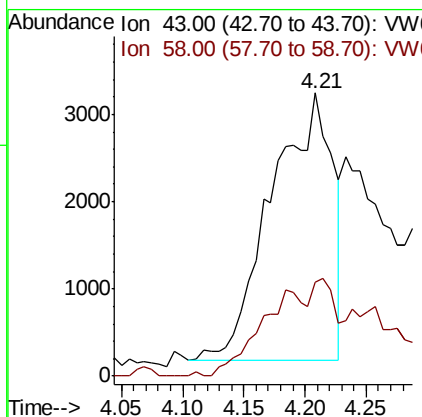
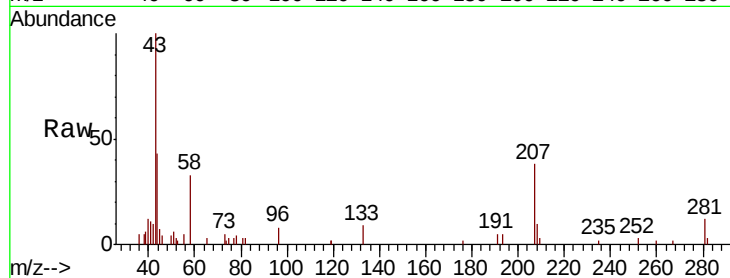




#16
Acetone
Concen: 1151.801 ug/l
RT: 4.21 min Scan# 430
Delta R.T. 0.06 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

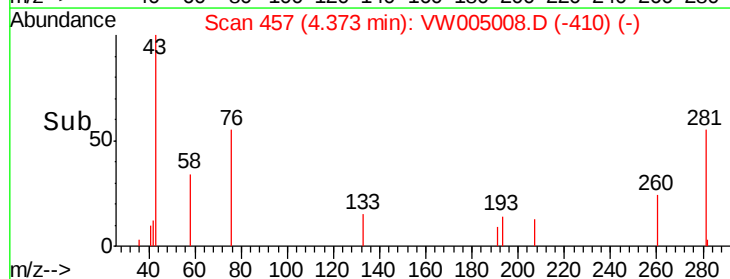
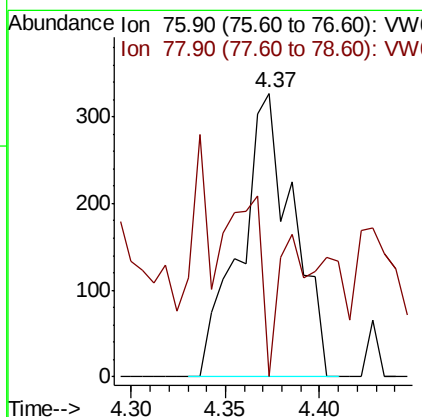
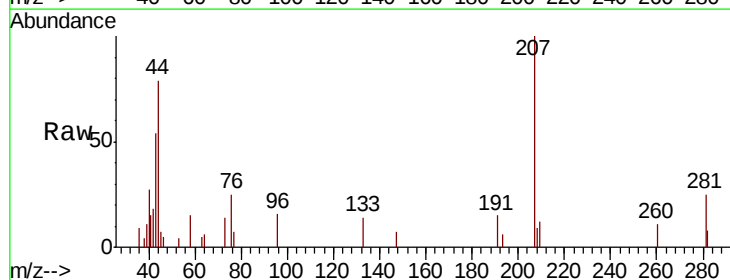
Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

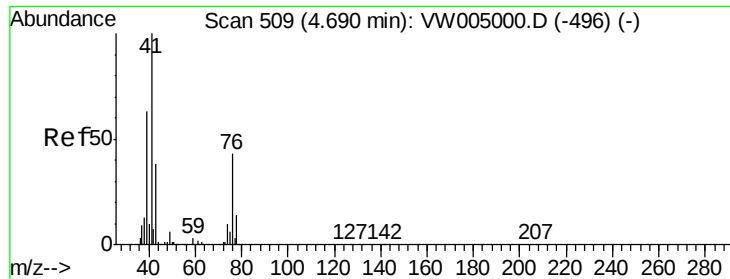
Tot Ion: 43 Resp: 10657
Ion Ratio Lower Upper
43 100
58 35.2 27.2 40.8



#17
Carbon Disulfide
Concen: 3.422 ug/l
RT: 4.37 min Scan# 457
Delta R.T. -0.01 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion: 76 Resp: 630
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

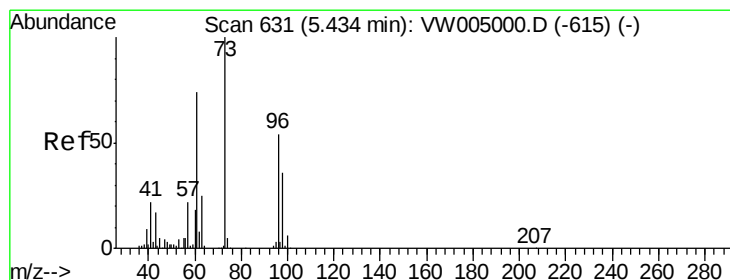
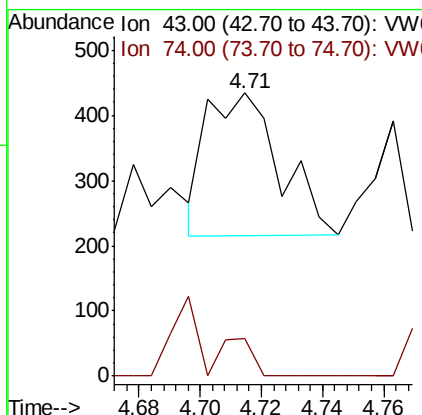
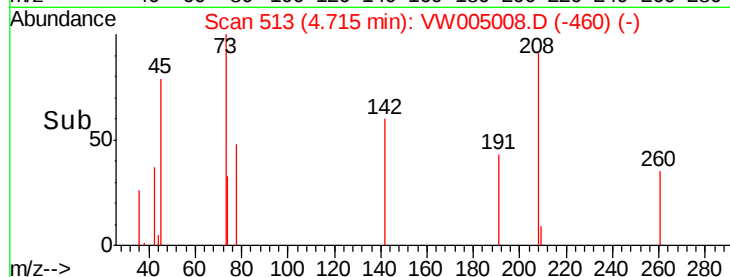
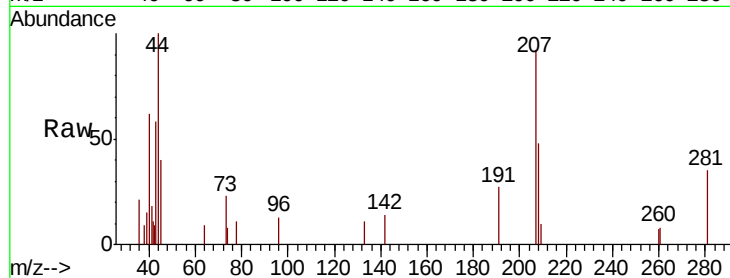




#18
Methyl Acetate
Concen: 16.197 ug/l
RT: 4.71 min Scan# 513
Delta R.T. 0.02 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

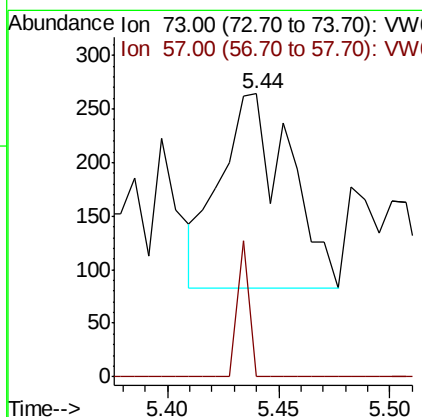
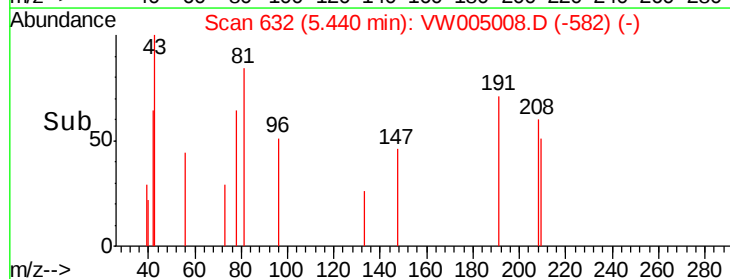
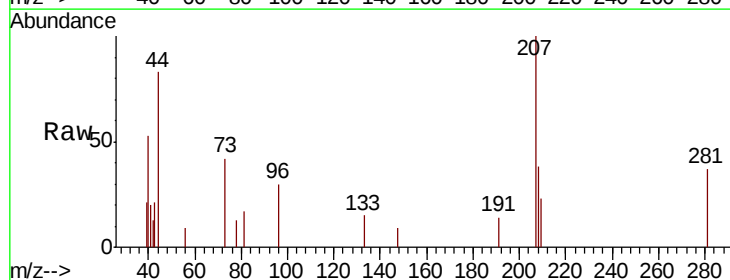
Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

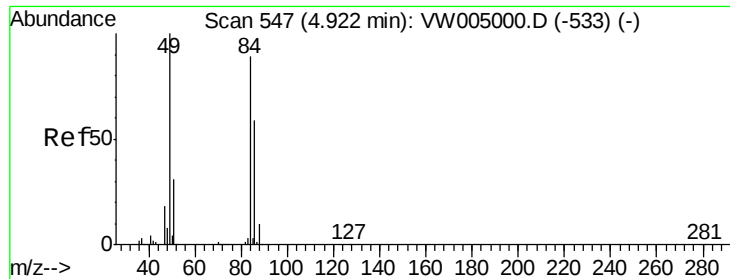
Tot Ion: 43 Resp: 363
Ion Ratio Lower Upper
43 100
74 30.3 20.3 30.5



#19
Methyl tert-butyl Ether
Concen: 4.176 ug/l
RT: 5.44 min Scan# 632
Delta R.T. 0.01 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion: 73 Resp: 393
Ion Ratio Lower Upper
73 100
57 0.0 17.6 26.4#

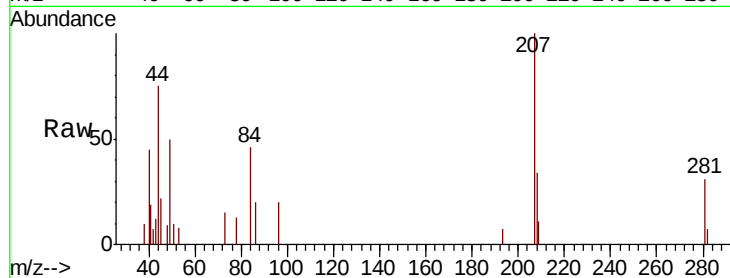




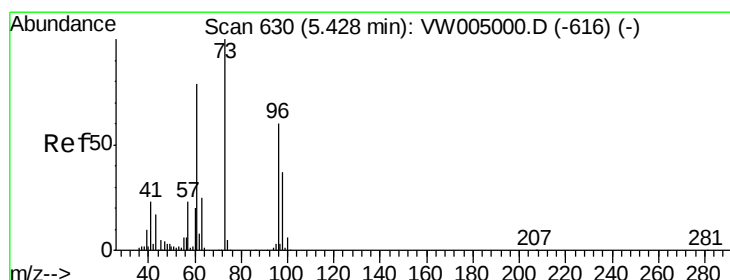
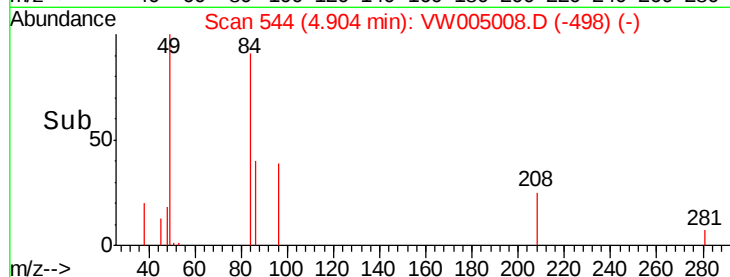
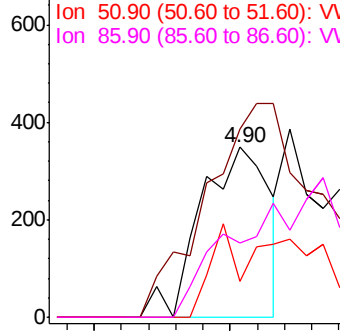
#20
Methvlene Chloride
Concen: 5.305 ug/l
RT: 4.90 min Scan# 544
Delta R.T. -0.02 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

Tot Ion: 84 Resp: 616
Ion Ratio Lower Upper
84 100
49 110.3 89.7 134.5
51 21.2 27.5 41.3#
86 43.8 52.7 79.1#

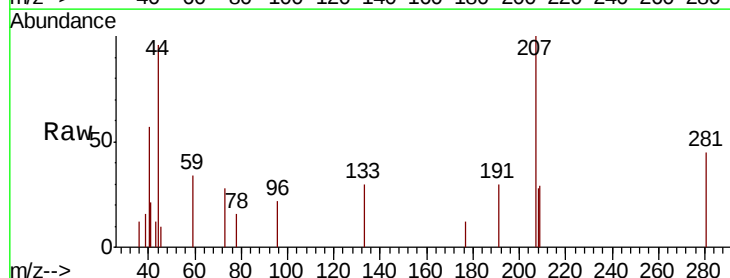


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

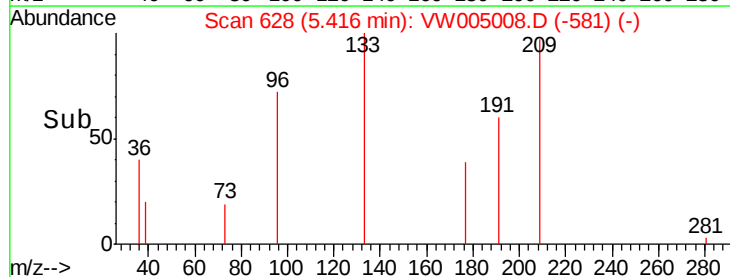
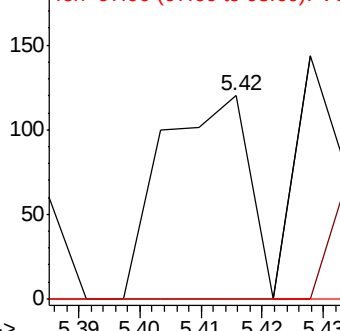


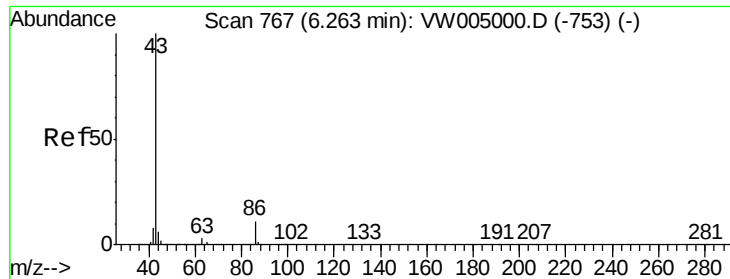
#21
trans-1,2-Dichloroethene
Concen: 2.460 ug/l
RT: 5.42 min Scan# 628
Delta R.T. -0.01 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion: 96 Resp: 117
Ion Ratio Lower Upper
96 100
61 0.0 106.2 159.2#
98 0.0 49.5 74.3#



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW





#23

Vinyl Acetate

Concen: 1.634 ug/l

RT: 6.26 min Scan# 766

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

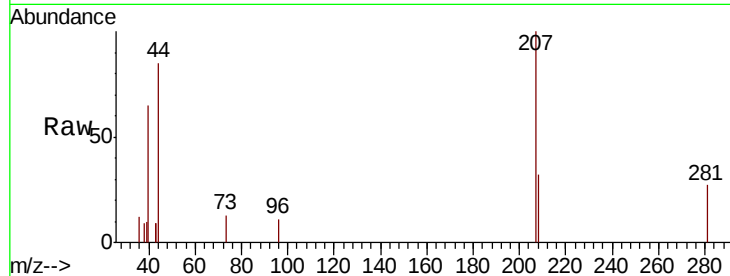
HD-01-082718RE

Tot Ion: 43 Resp: 115

Ion Ratio Lower Upper

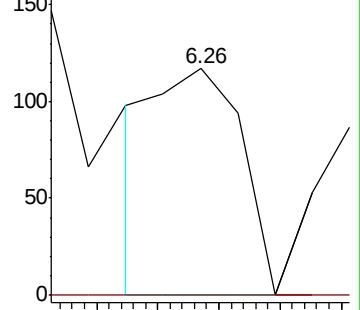
43 100

86 0.0 9.0 13.6#

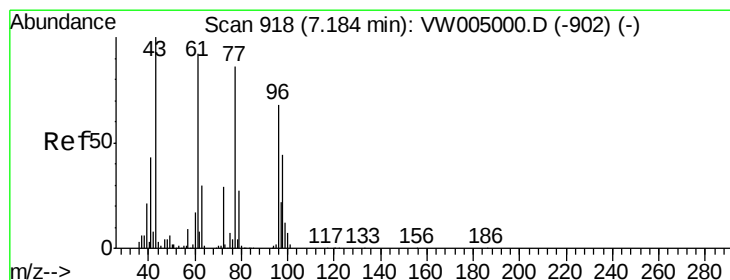
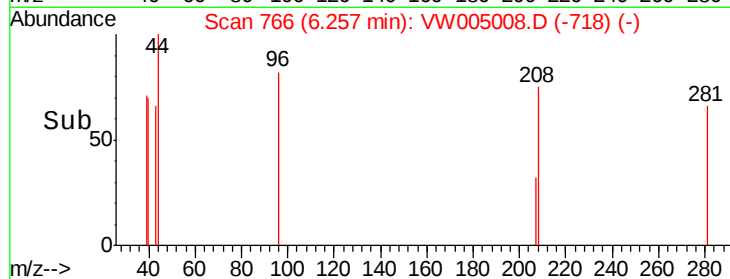


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



Time-->



#25

2-Butanone

Concen: 11.297 ug/l

RT: 7.18 min Scan# 917

Delta R.T. -0.01 min

Lab File: VW005008.D

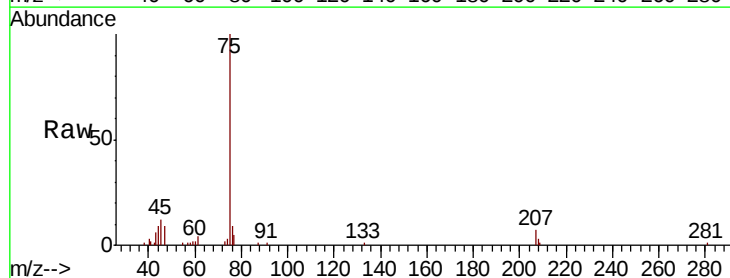
Acq: 30 Aug 2018 05:37

Tgt Ion: 43 Resp: 163

Ion Ratio Lower Upper

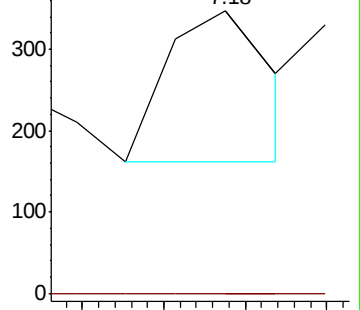
43 100

72 0.0 23.4 35.2#

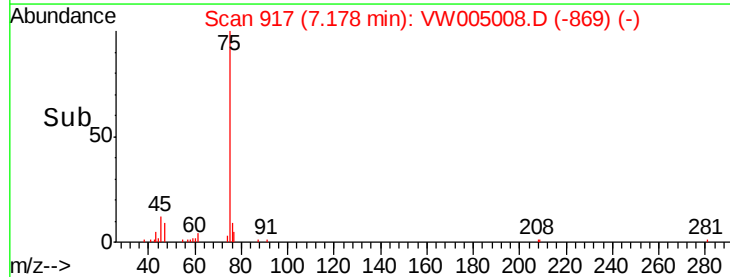


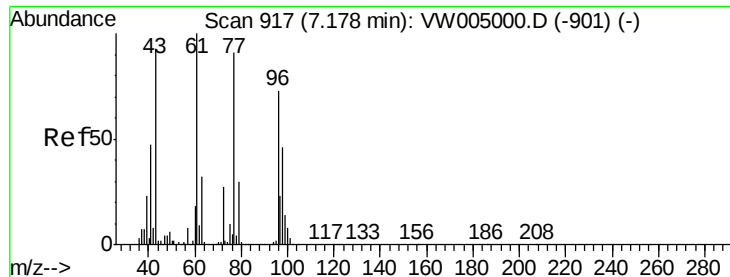
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



Time-->





#26

2,2-Dichloropropane

Concen: 8.836 ug/l

RT: 7.17 min Scan# 916

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

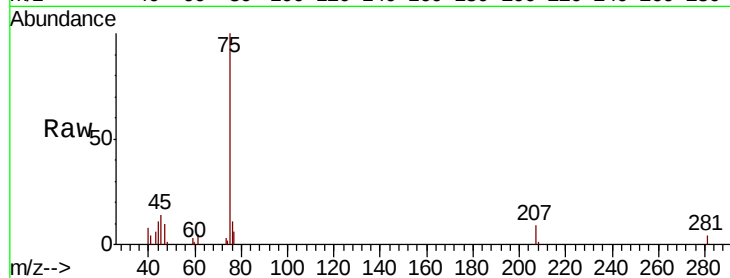
HD-01-082718RE

Tot Ion: 77 Resp: 646

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.4#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.17

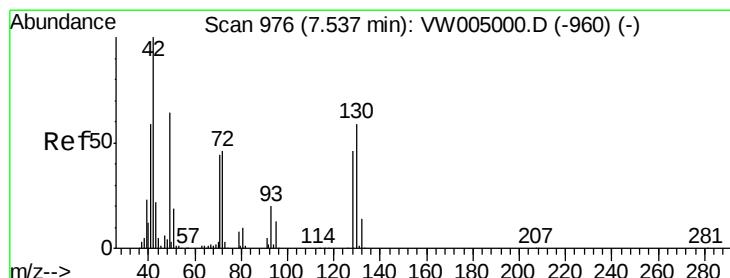
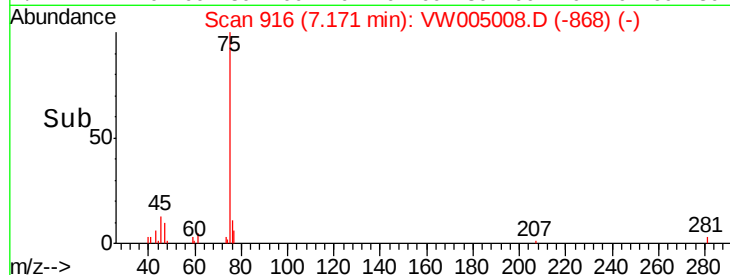
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 67.227 ug/l

RT: 7.57 min Scan# 981

Delta R.T. 0.03 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

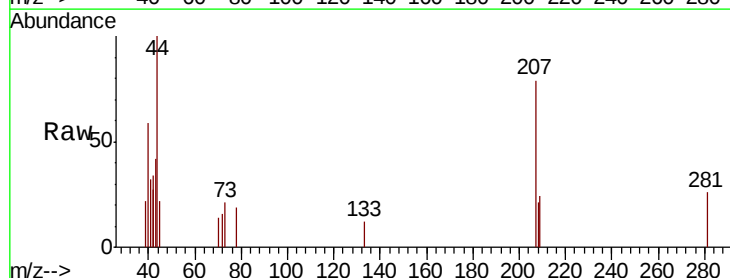
Tgt Ion: 42 Resp: 490

Ion Ratio Lower Upper

42 100

72 26.9 36.6 55.0#

71 0.0 35.4 53.2#



Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

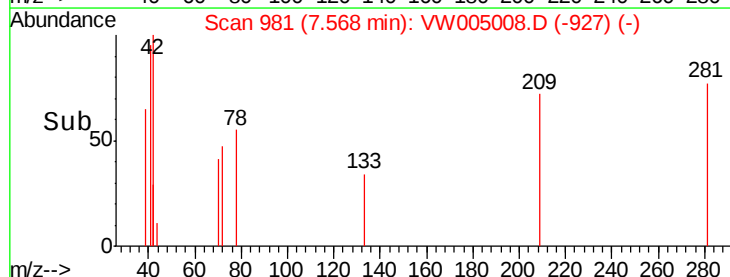
300

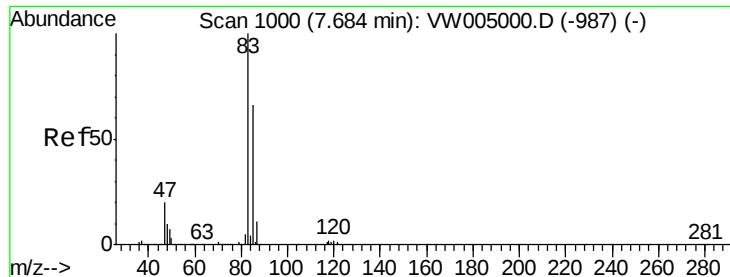
200

100

0

Time-->

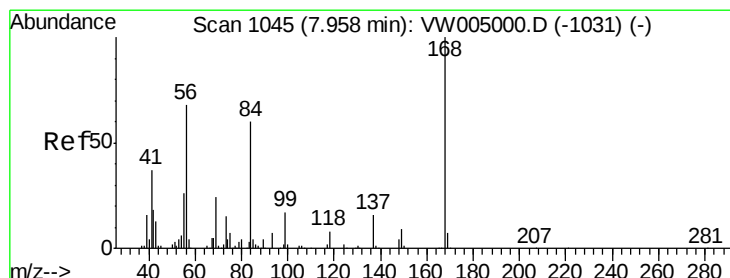
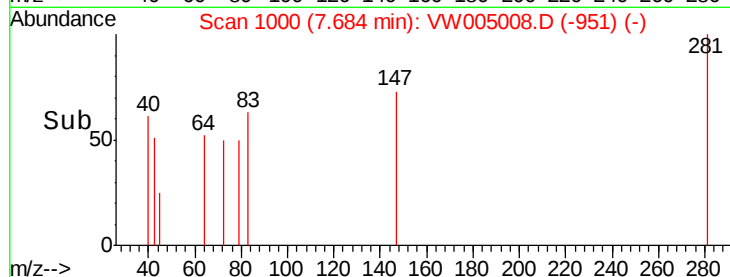
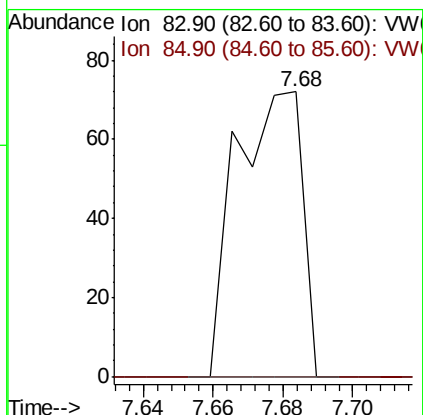
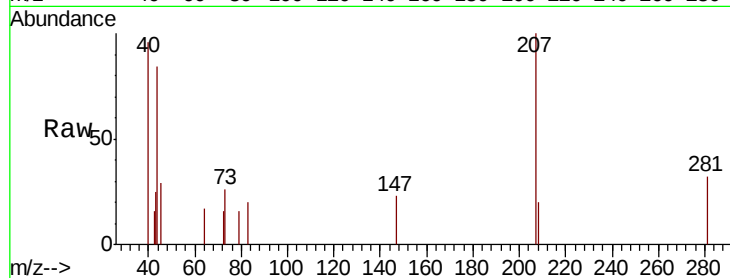




#30
Chloroform
Concen: 1.147 ug/l
RT: 7.68 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

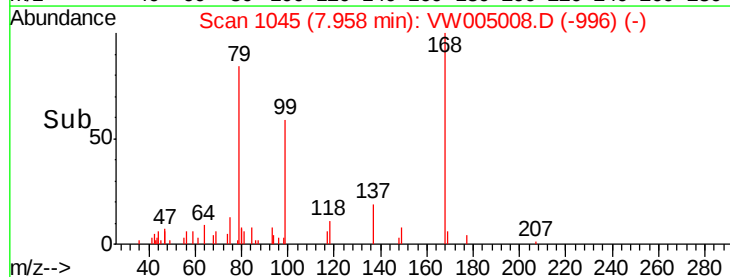
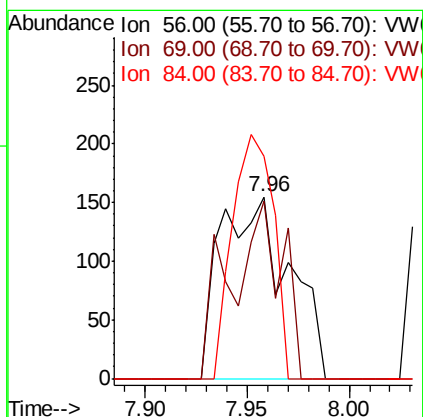
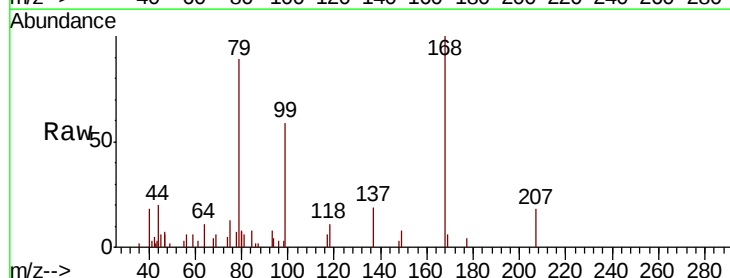
Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

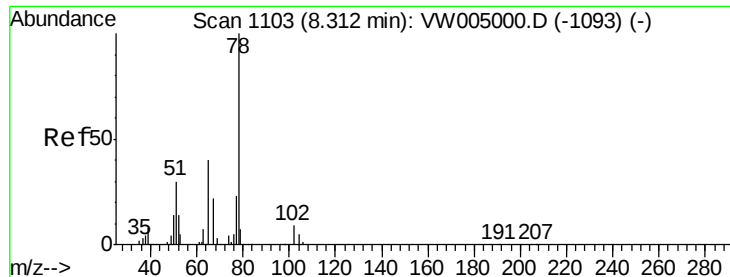
Tot Ion: 83 Resp: 94
Ion Ratio Lower Upper
83 100
85 0.0 52.6 78.8#



#31
Cyclohexane
Concen: 4.134 ug/l
RT: 7.96 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion: 56 Resp: 365
Ion Ratio Lower Upper
56 100
69 97.4 27.9 41.9#
84 122.6 70.5 105.7#





#33

1,2-Dichloroethane-d4

Concen: 85.770 ug/l

RT: 8.32 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

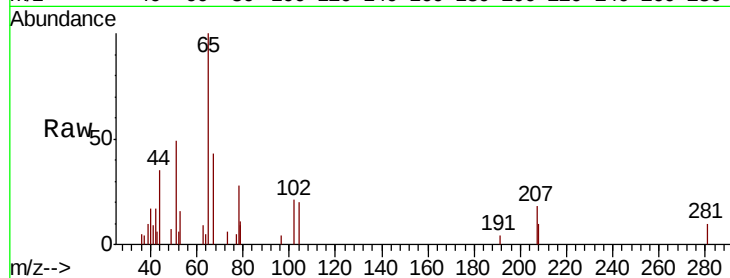
HD-01-082718RE

Tot Ion: 65 Resp: 3519

Ion Ratio Lower Upper

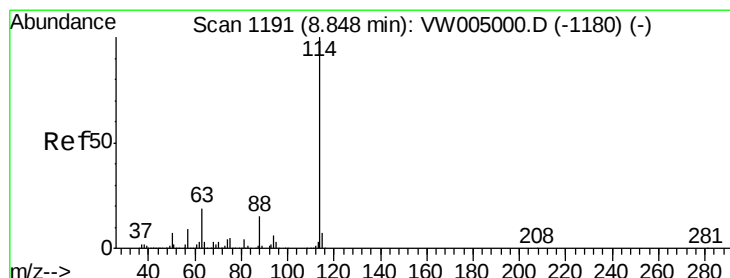
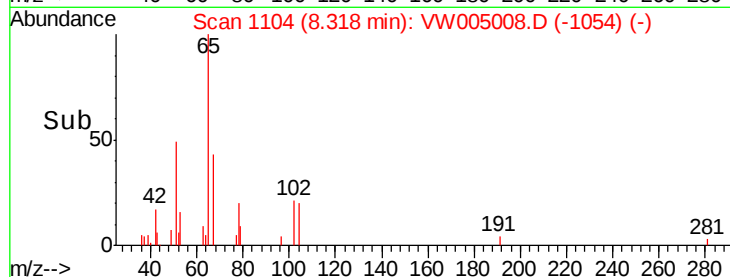
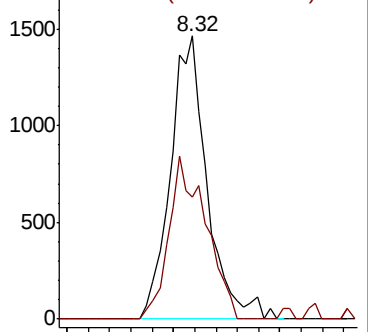
65 100

67 58.2 0.0 112.8



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# 1191

Delta R.T. -0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

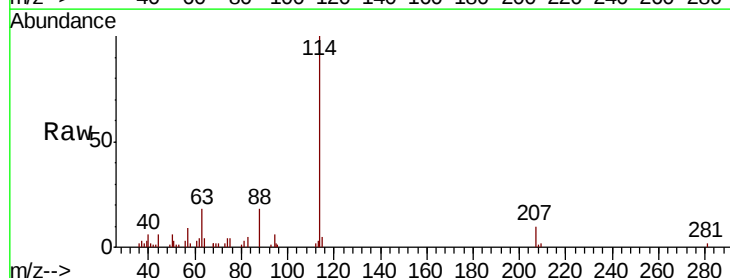
Tgt Ion: 114 Resp: 10342

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

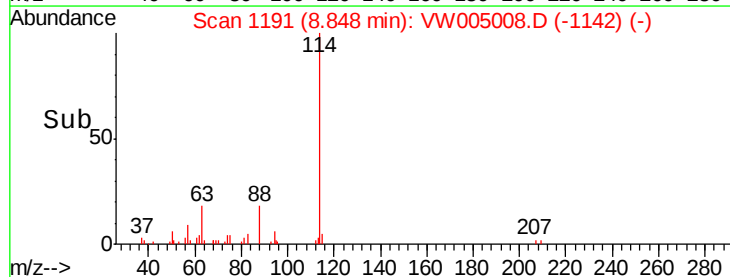
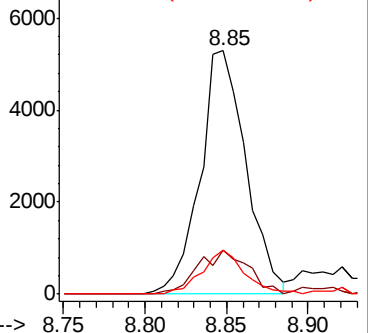
88 18.1 0.0 30.6

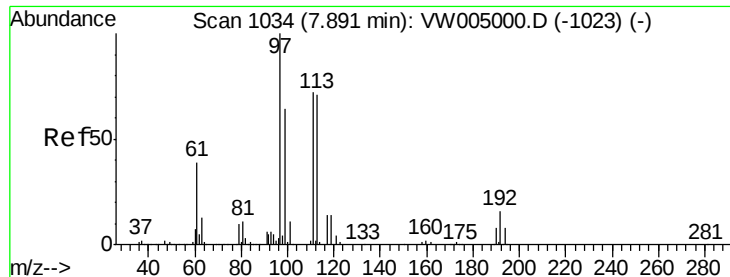


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 16.976 ug/l

RT: 7.90 min Scan# 1035

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

HD-01-082718RE

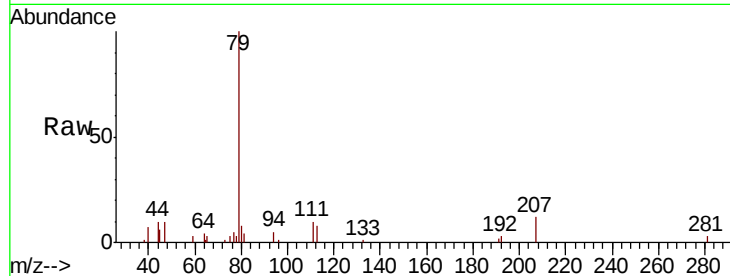
Tot Ion:113 Resp: 870

Ion Ratio Lower Upper

113 100

111 105.6 81.3 121.9

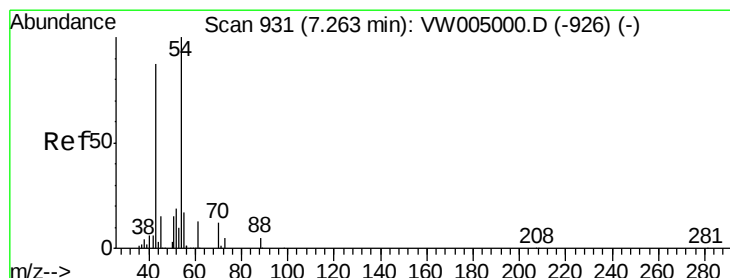
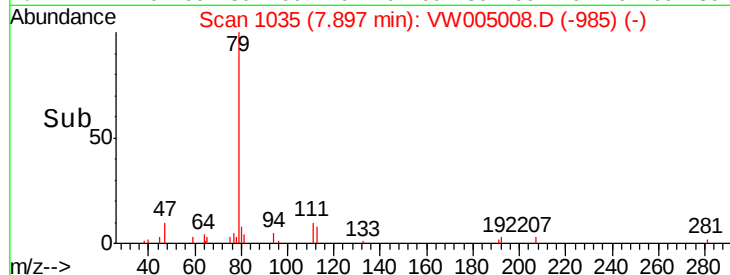
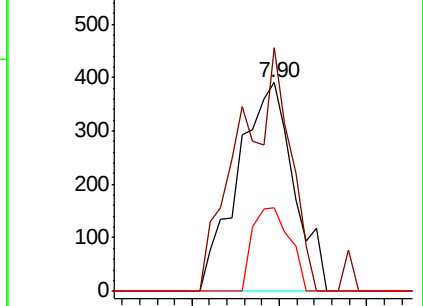
192 26.3 17.8 26.8



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



#37

Ethyl Acetate

Concen: 4.559 ug/l

RT: 7.30 min Scan# 937

Delta R.T. 0.04 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

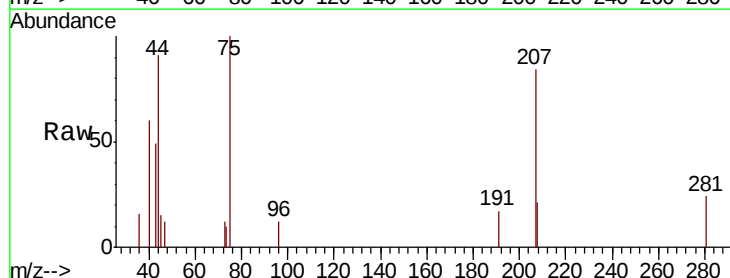
Tgt Ion: 43 Resp: 144

Ion Ratio Lower Upper

43 100

61 14.6 12.3 18.5

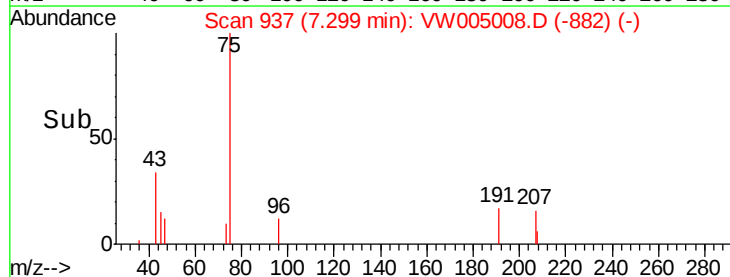
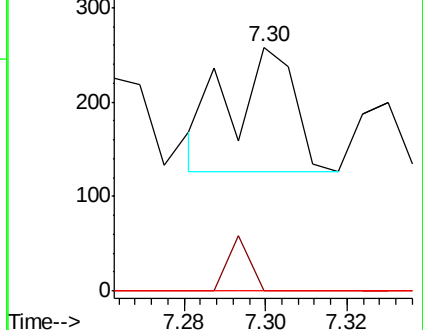
70 0.0 9.7 14.5#

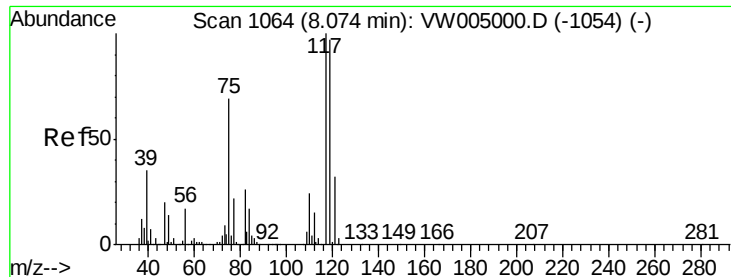


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.639 ug/l

RT: 7.94 min Scan# 1042

Delta R.T. -0.13 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

HD-01-082718RE

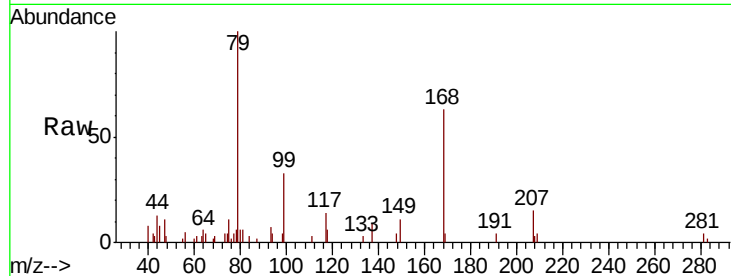
Tot Ion:117 Resp: 563

Ion Ratio Lower Upper

117 100

119 0.0 77.8 116.8#

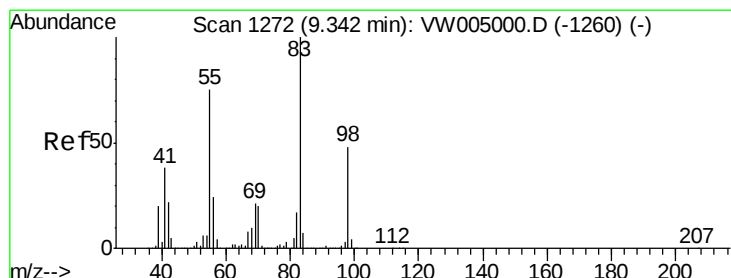
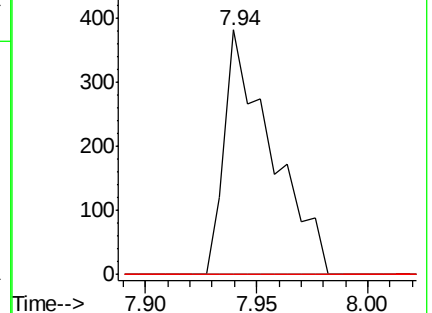
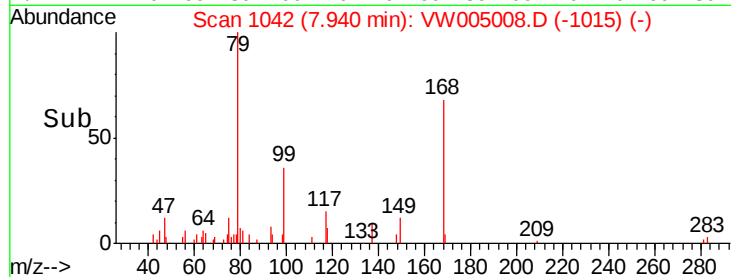
121 0.0 25.2 37.8#



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



#39

Methylcyclohexane

Concen: 4.934 ug/l

RT: 9.33 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

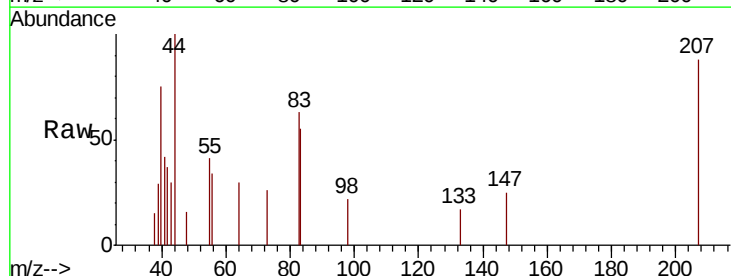
Tgt Ion: 83 Resp: 596

Ion Ratio Lower Upper

83 100

55 34.8 60.2 90.2#

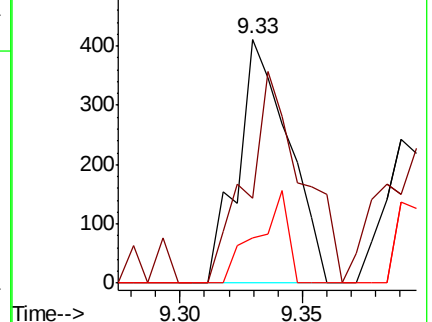
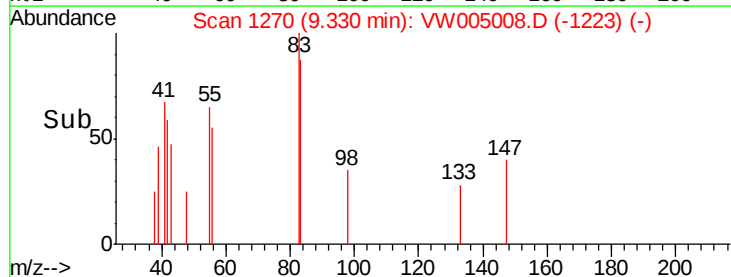
98 18.7 38.6 57.8#

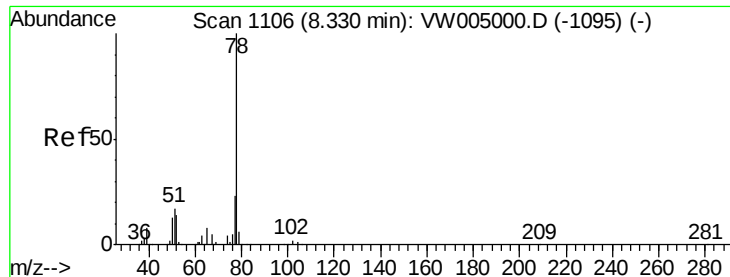


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

Benzene

Concen: 4.132 ug/l

RT: 8.33 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

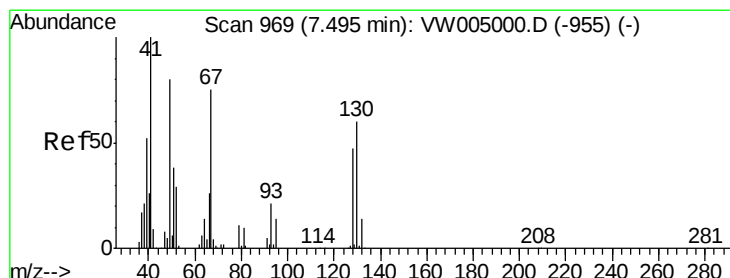
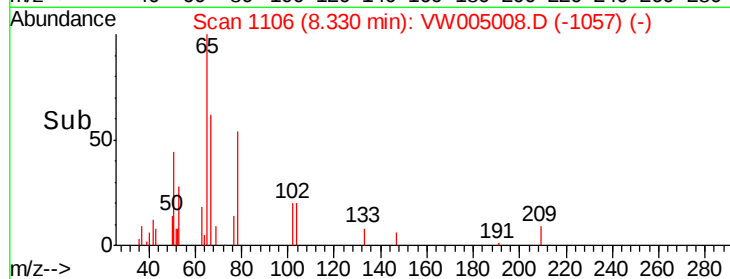
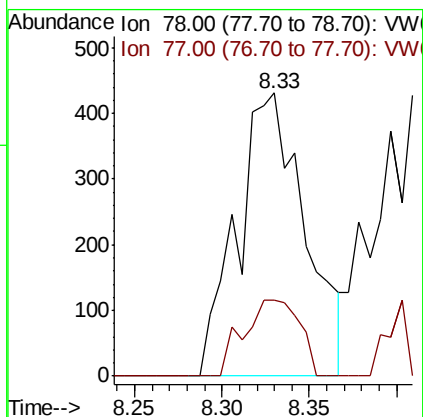
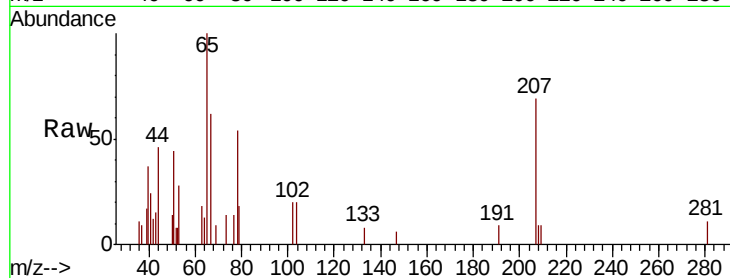
HD-01-082718RE

Tot Ion: 78 Resp: 1159

Ion Ratio Lower Upper

78 100

77 26.7 18.6 28.0



#41

Methacrylonitrile

Concen: 12.550 ug/l

RT: 7.50 min Scan# 970

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Tgt Ion: 41 Resp: 231

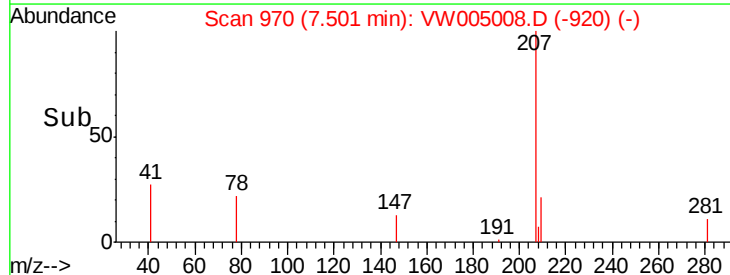
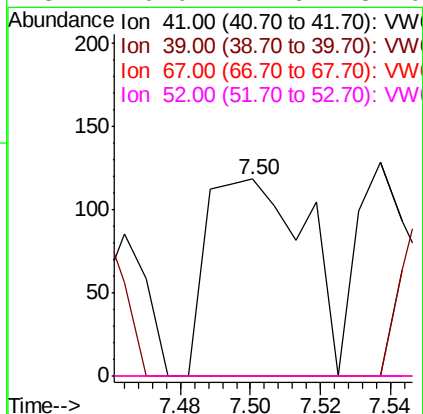
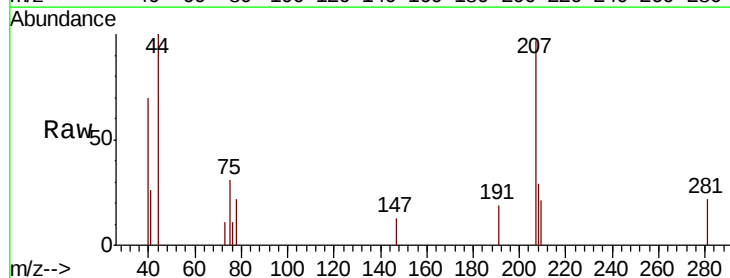
Ion Ratio Lower Upper

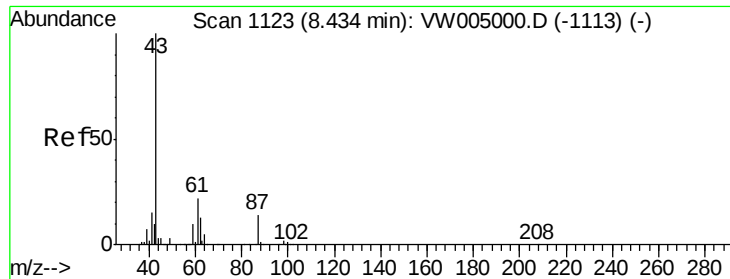
41 100

39 0.0 42.0 63.0#

67 0.0 63.4 95.2#

52 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 4.089 ug/l

RT: 8.46 min Scan# 1128

Delta R.T. 0.03 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

HD-01-082718RE

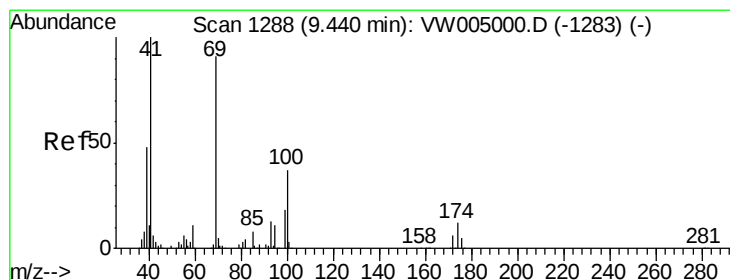
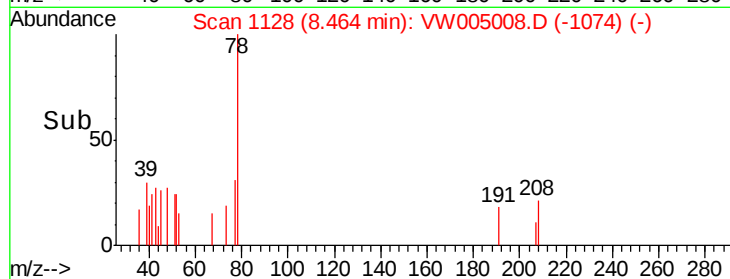
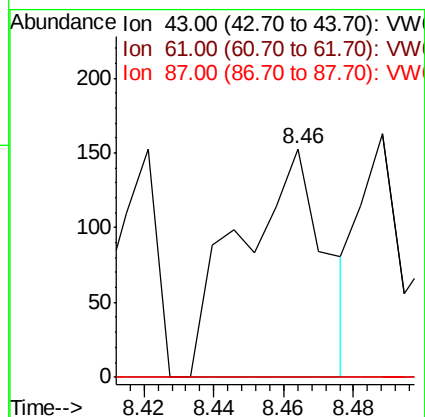
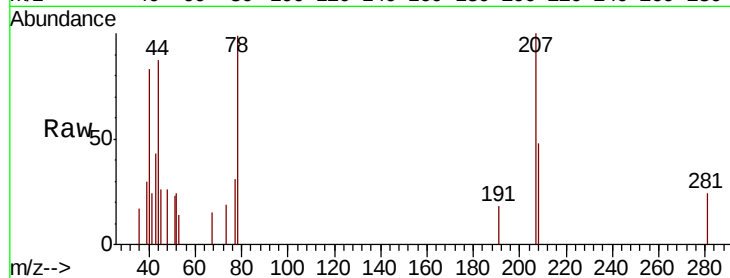
Tot Ion: 43 Resp: 257

Ion Ratio Lower Upper

43 100

61 0.0 26.2 39.4#

87 0.0 11.8 17.6#



#48

Methyl methacrylate

Concen: 8.348 ug/l

RT: 9.40 min Scan# 1282

Delta R.T. -0.04 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

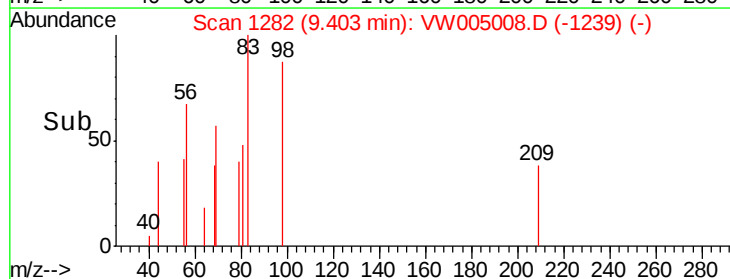
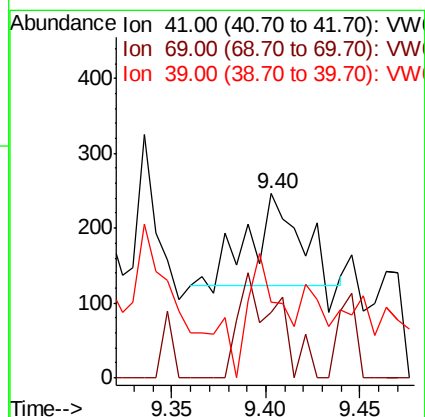
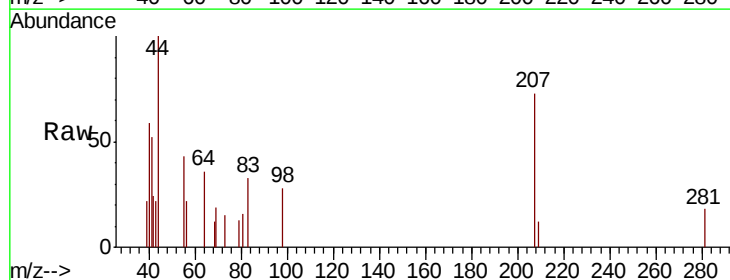
Tgt Ion: 41 Resp: 222

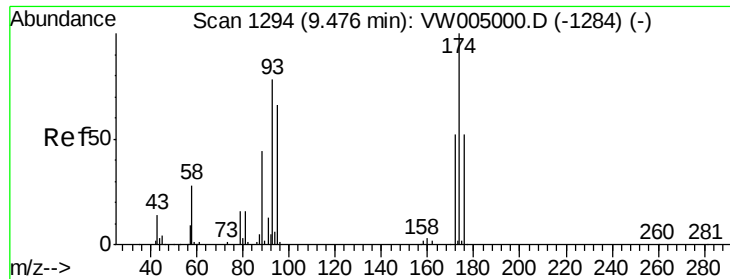
Ion Ratio Lower Upper

41 100

69 90.1 72.5 108.7

39 88.3 37.0 55.6#

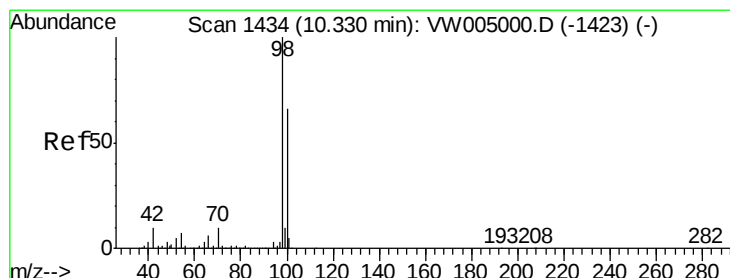
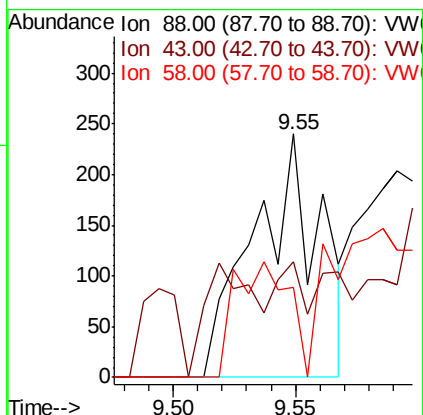
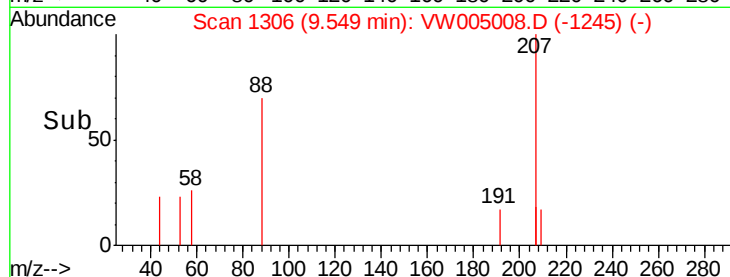
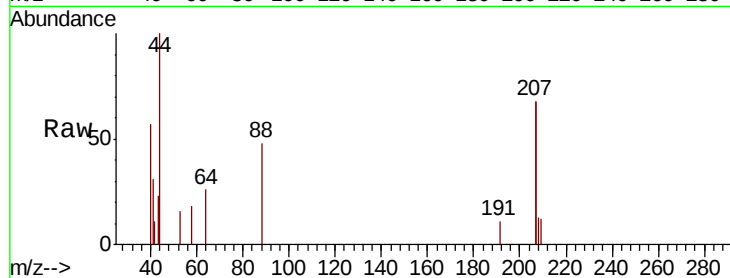




#49
1,4-Dioxane
Concen: 710.746 ug/l
RT: 9.55 min Scan# 1306
Delta R.T. 0.07 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

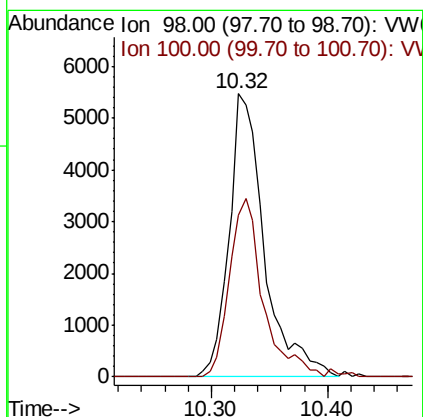
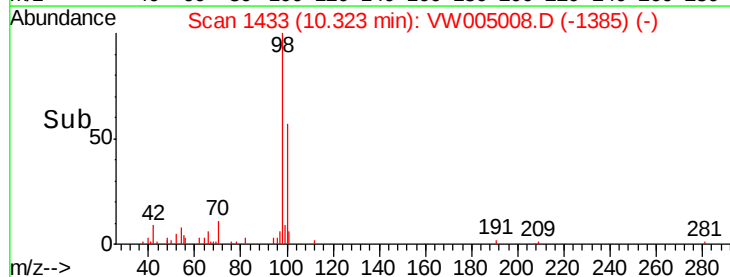
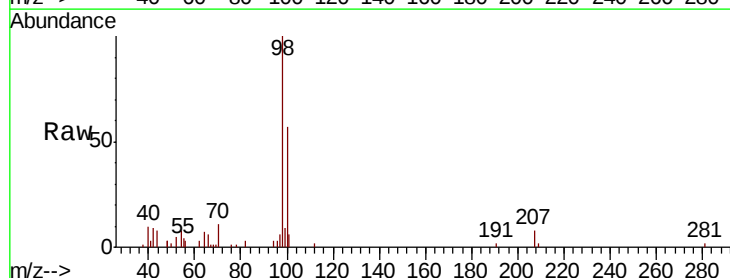
Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

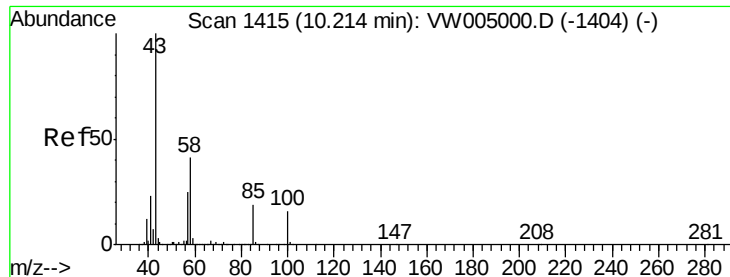
Tot Ion: 88 Resp: 448
Ion Ratio Lower Upper
88 100
43 17.0 0.0 0.0#
58 39.1 57.0 85.4#



#50
Toluene-d8
Concen: 40.971 ug/l
RT: 10.32 min Scan# 1433
Delta R.T. -0.01 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion: 98 Resp: 11528
Ion Ratio Lower Upper
98 100
100 60.0 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 9.411 ug/l

RT: 10.21 min Scan# 1414

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampled :

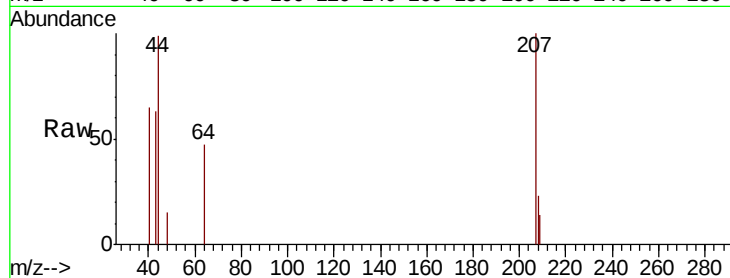
HD-01-082718RE

Tot Ion: 43 Resp: 443

Ion Ratio Lower Upper

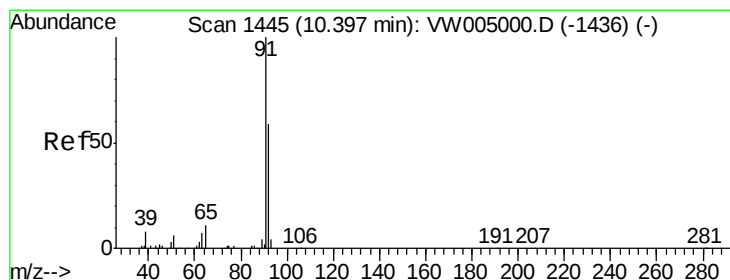
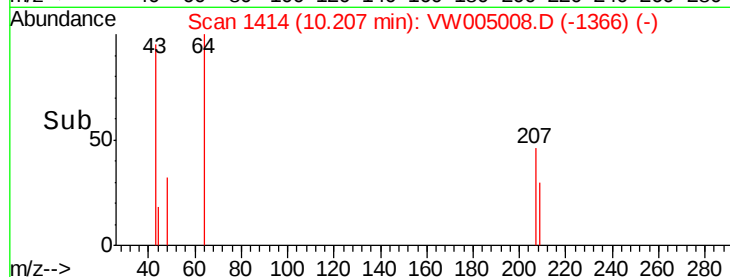
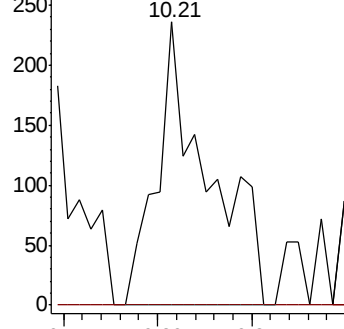
43 100

58 0.0 33.5 50.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 7.751 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VW005008.D

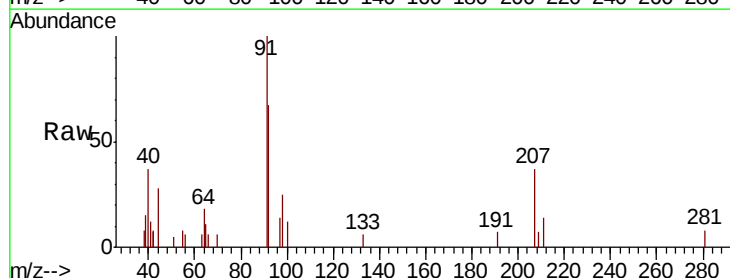
Acq: 30 Aug 2018 05:37

Tgt Ion: 92 Resp: 1613

Ion Ratio Lower Upper

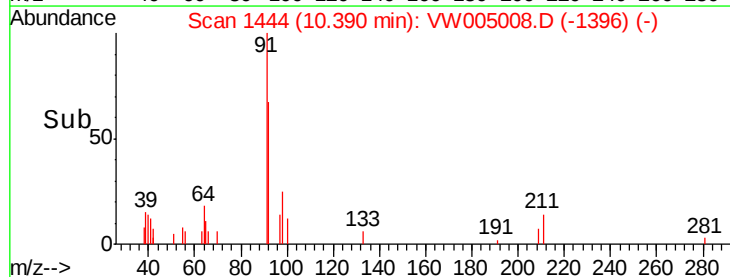
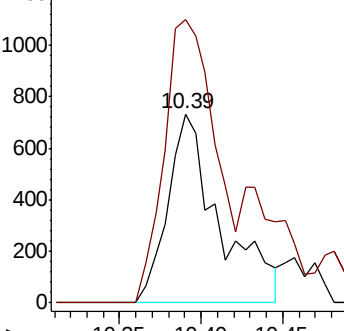
92 100

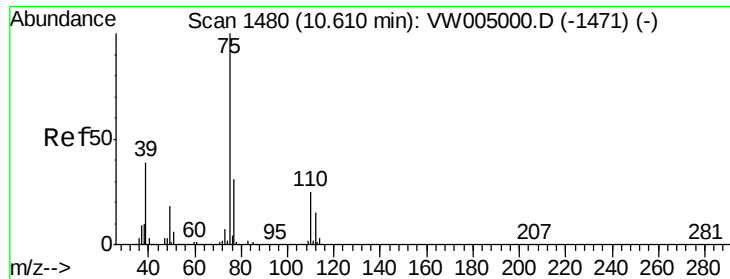
91 148.4 137.4 206.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 3.106 ug/l

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

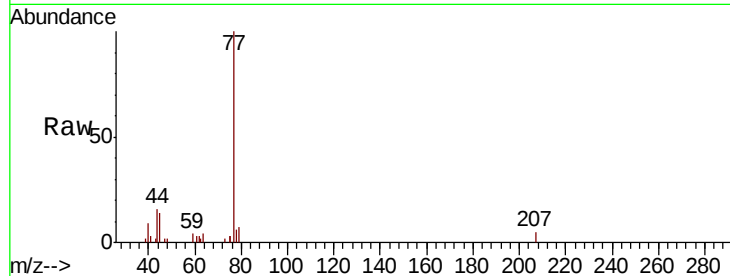
HD-01-082718RE

Tot Ion: 75 Resp: 249

Ion Ratio Lower Upper

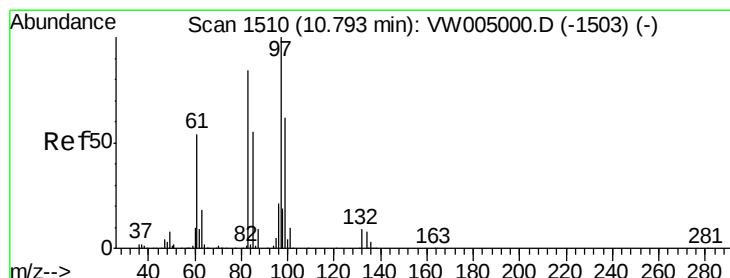
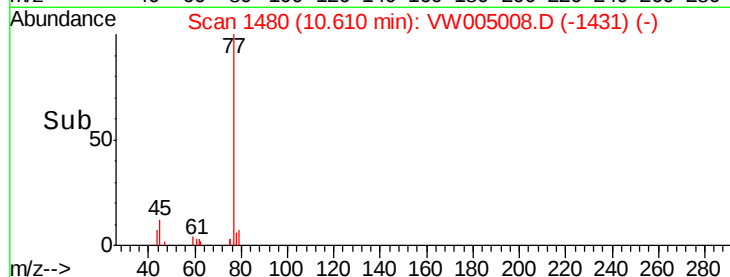
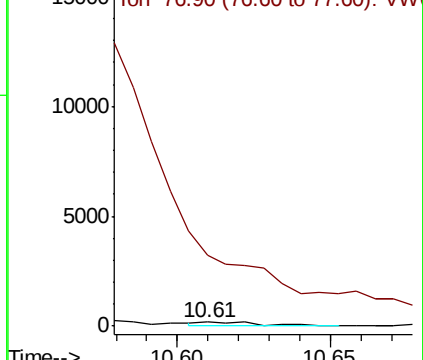
75 100

77 912.8 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#55

1,1,2-Trichloroethane

Concen: 8.689 ug/l

RT: 10.77 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Tgt Ion: 97 Resp: 432

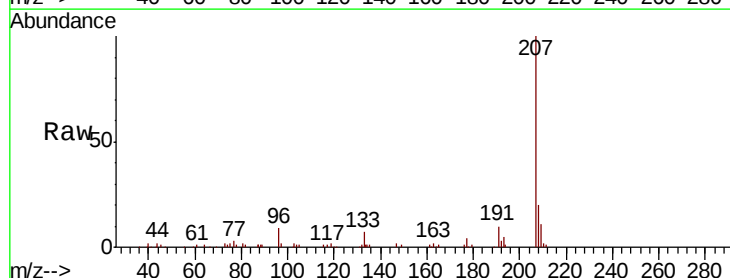
Ion Ratio Lower Upper

97 100

83 0.0 67.3 100.9#

85 0.0 44.3 66.5#

99 0.0 49.4 74.0#

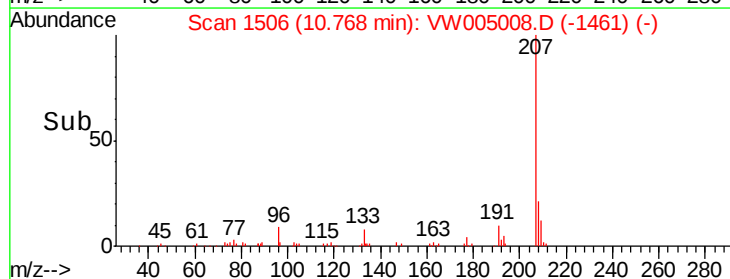
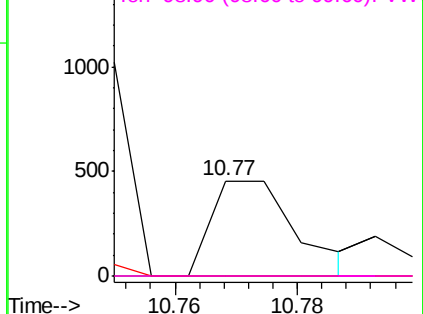


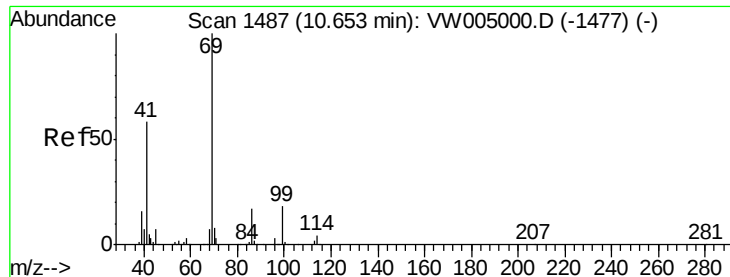
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW





#56

Ethyl methacrylate

Concen: 1.948 ug/l

RT: 10.66 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampled :

HD-01-082718RE

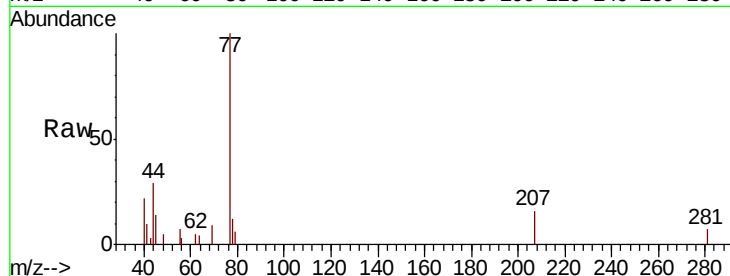
Tot Ion: 69 Resp: 127

Ion Ratio Lower Upper

69 100

41 185.8 47.7 71.5#

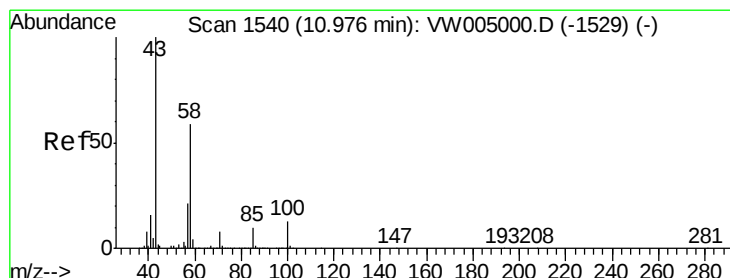
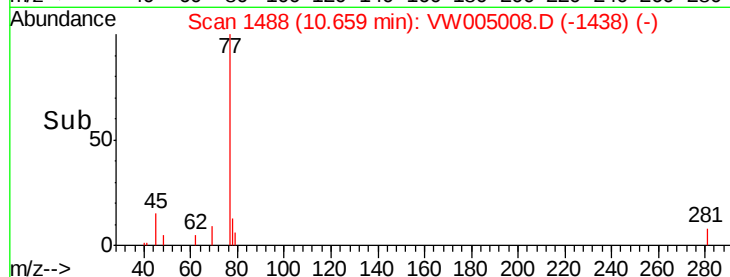
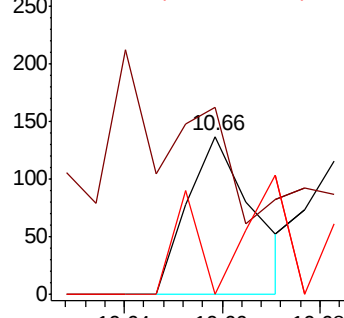
39 26.0 21.0 31.6



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



#59

2-Hexanone

Concen: 24.852 ug/l

RT: 10.98 min Scan# 1540

Delta R.T. -0.00 min

Lab File: VW005008.D

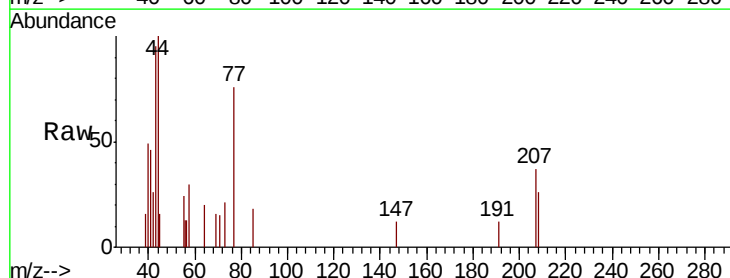
Acq: 30 Aug 2018 05:37

Tgt Ion: 43 Resp: 847

Ion Ratio Lower Upper

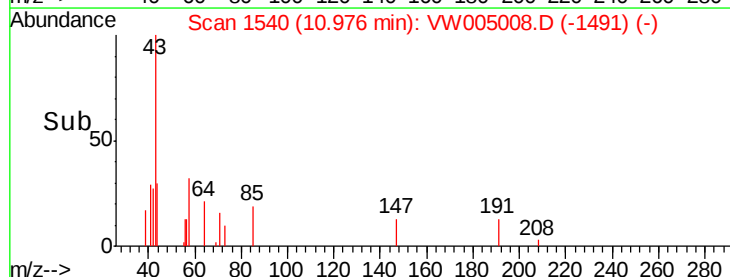
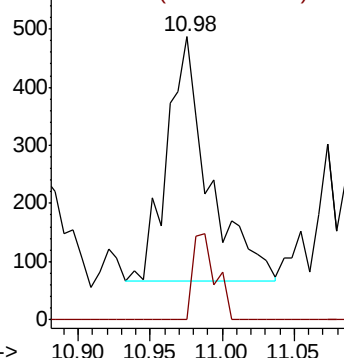
43 100

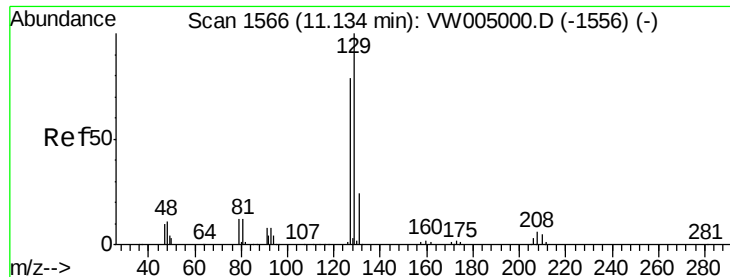
58 18.7 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#60

Dibromochloromethane

Concen: 4.490 ug/l

RT: 10.86 min Scan# 1521

Delta R.T. -0.27 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

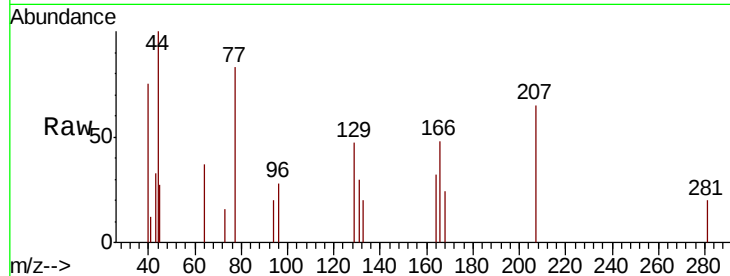
HD-01-082718RE

Tot Ion:129 Resp: 245

Ion Ratio Lower Upper

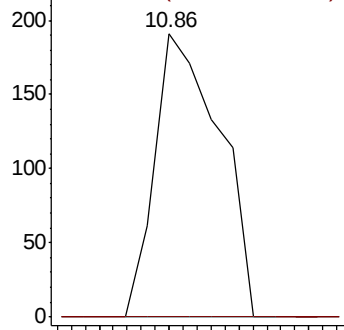
129 100

127 0.0 38.3 114.8#

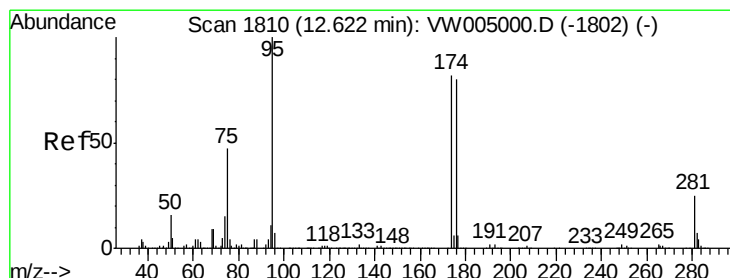
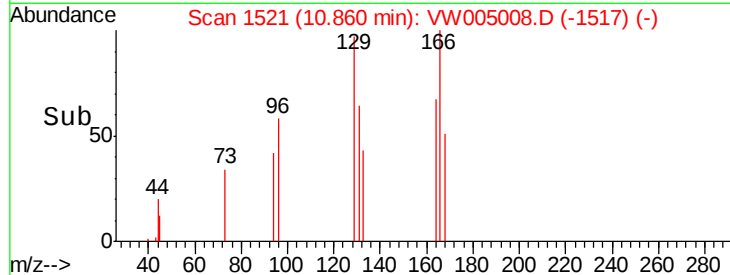


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 53.643 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

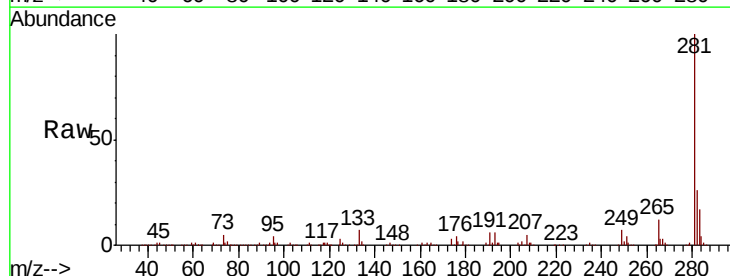
Tgt Ion: 95 Resp: 5503

Ion Ratio Lower Upper

95 100

174 78.4 0.0 173.4

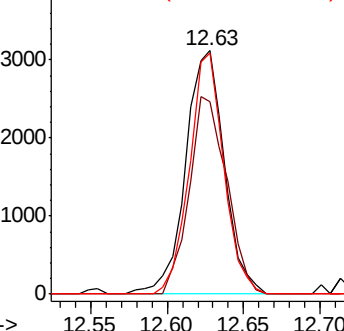
176 88.1 0.0 167.8



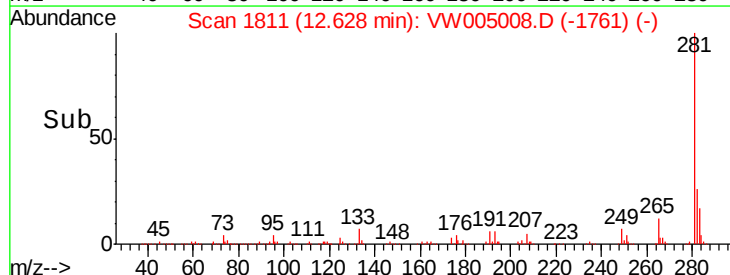
Abundance Ion 94.90 (94.60 to 95.60): VW

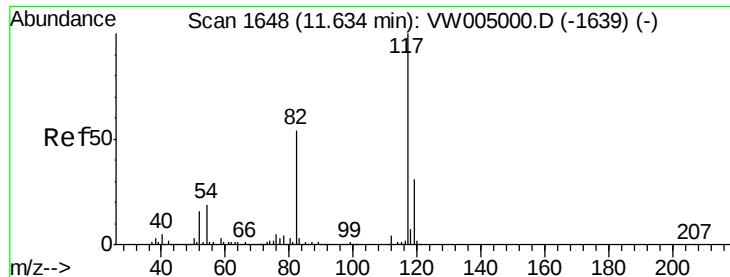
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

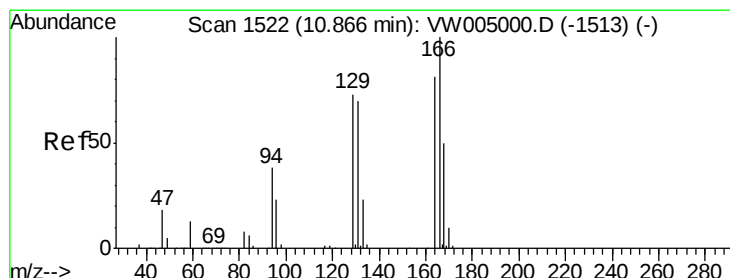
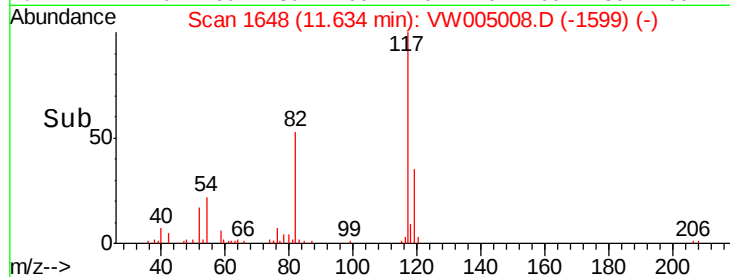
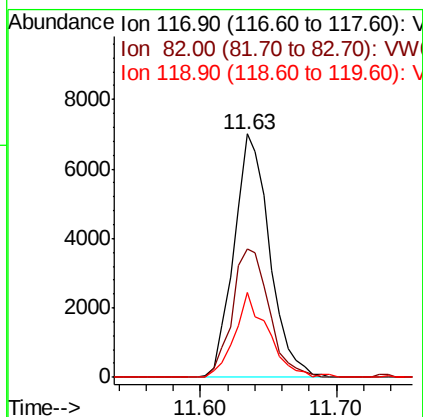
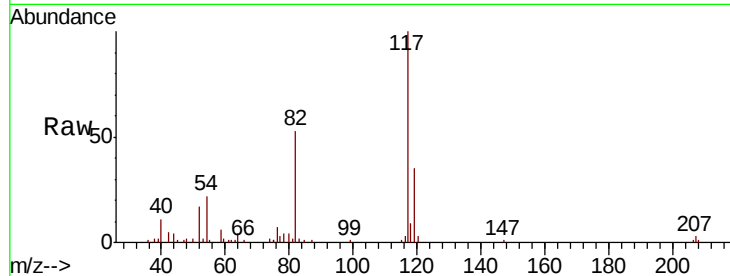




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

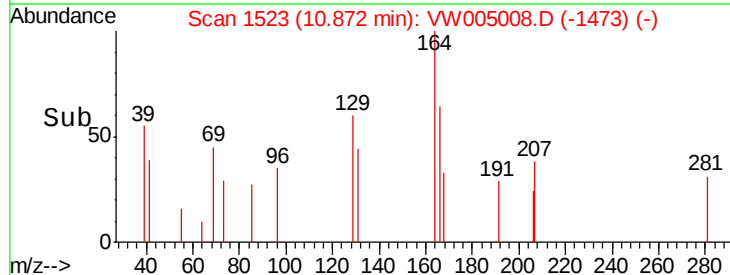
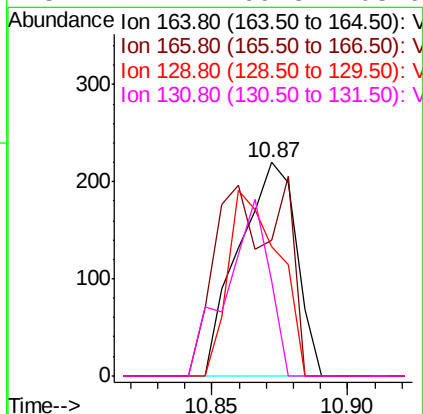
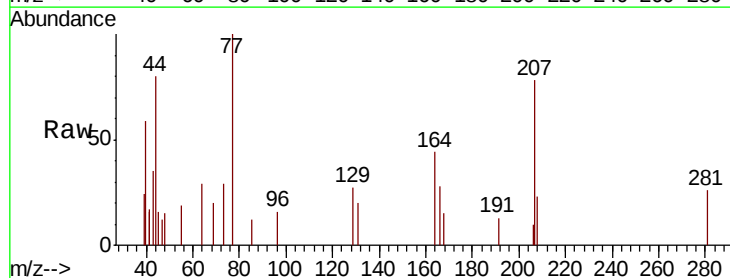
Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

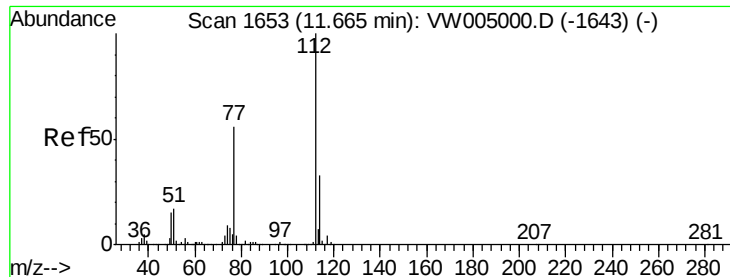
Tot Ion:117 Resp: 12812
Ion Ratio Lower Upper
117 100
82 52.6 43.3 64.9
119 34.7 25.0 37.6



#64
Tetrachloroethene
Concen: 3.436 ug/l
RT: 10.87 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion:164 Resp: 321
Ion Ratio Lower Upper
164 100
166 63.6 99.4 149.0#
129 60.5 72.2 108.2#
131 44.1 69.3 103.9#





#65

Chlorobenzene

Concen: 2.252 ug/l

RT: 11.66 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

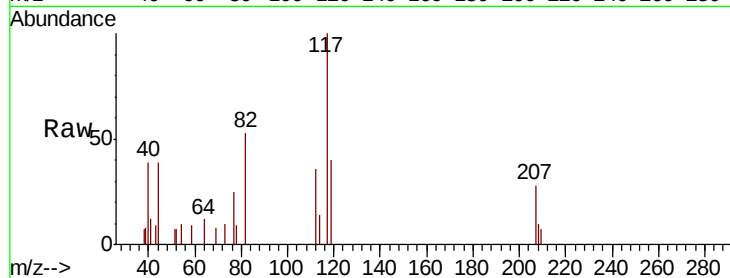
HD-01-082718RE

Tot Ion:112 Resp: 634

Ion Ratio Lower Upper

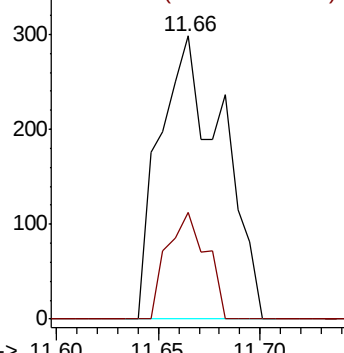
112 100

114 37.9 26.1 39.1

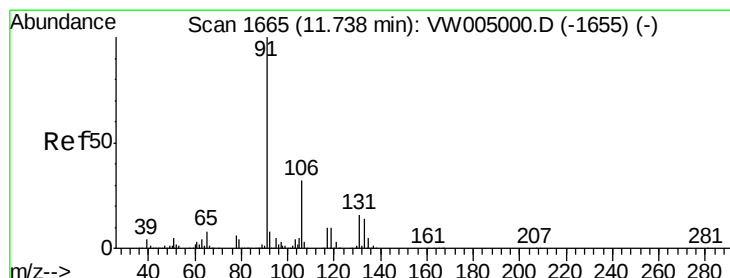
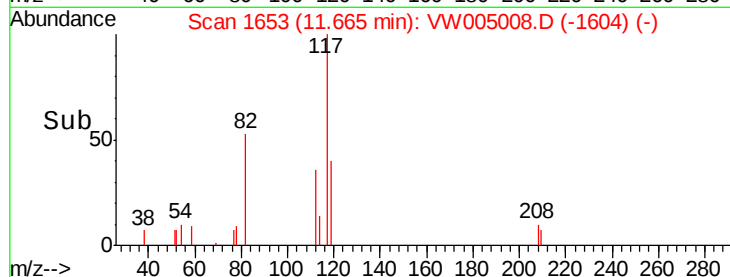


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time--> 11.60 11.65 11.70



#67

Ethyl Benzene

Concen: 2.021 ug/l

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW005008.D

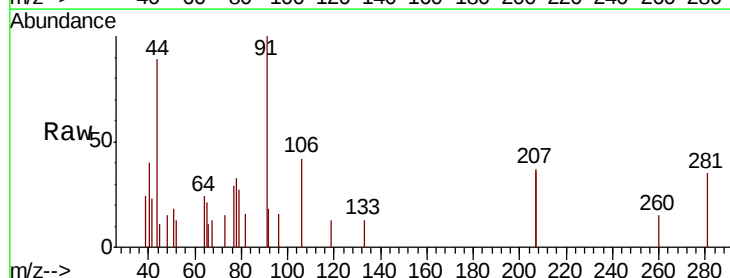
Acq: 30 Aug 2018 05:37

Tgt Ion: 91 Resp: 974

Ion Ratio Lower Upper

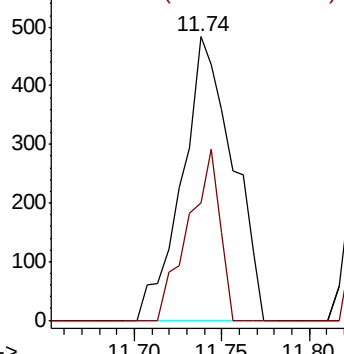
91 100

106 41.6 25.4 38.2#

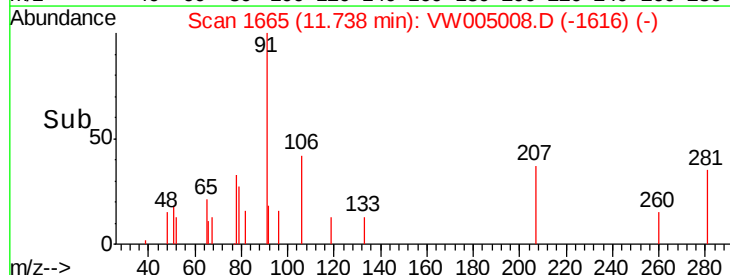


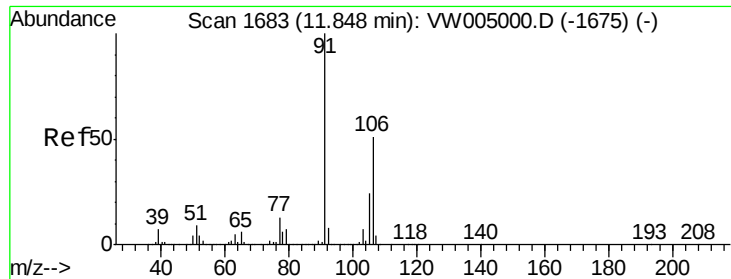
Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



Time--> 11.70 11.75 11.80

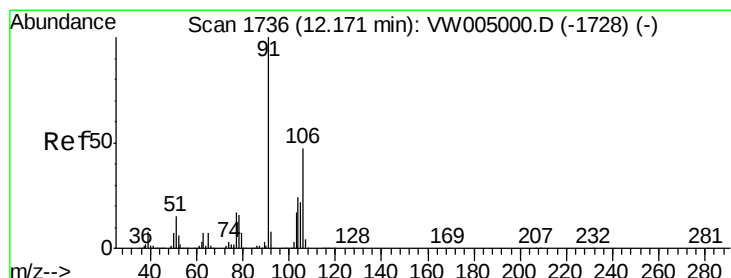
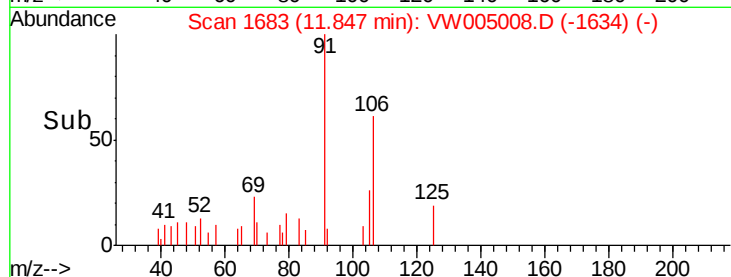
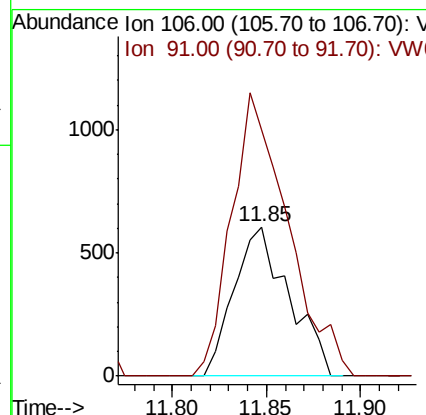
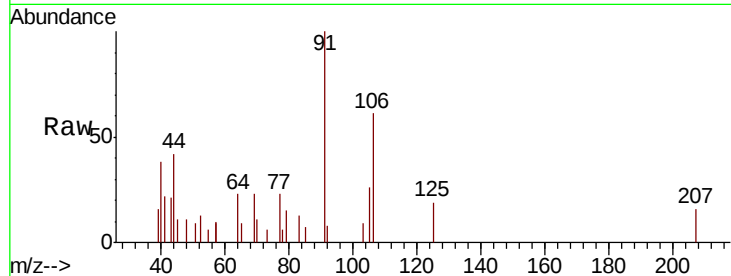




#68
m/p-Xylenes
Concen: 6.247 ug/l
RT: 11.85 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

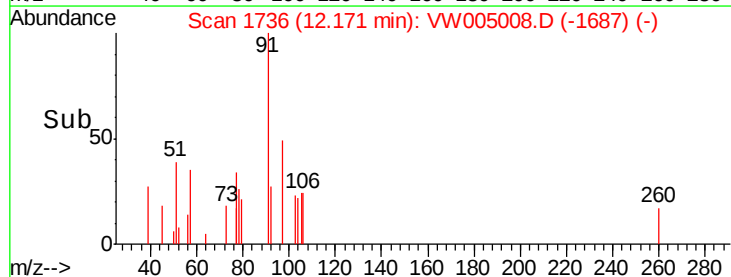
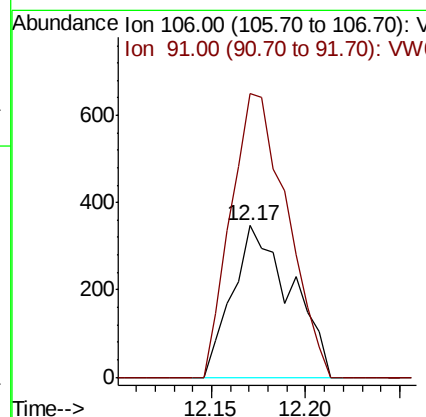
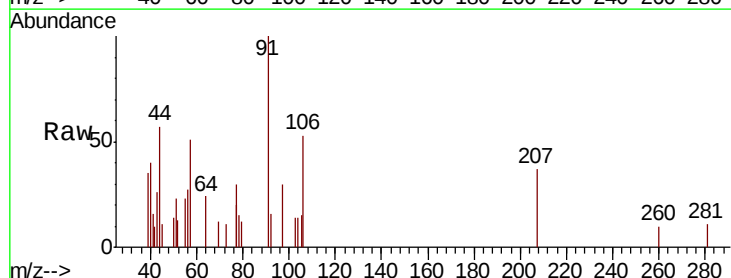
Instrument :
MSVOA_W
ClientSampled :
HD-01-082718RE

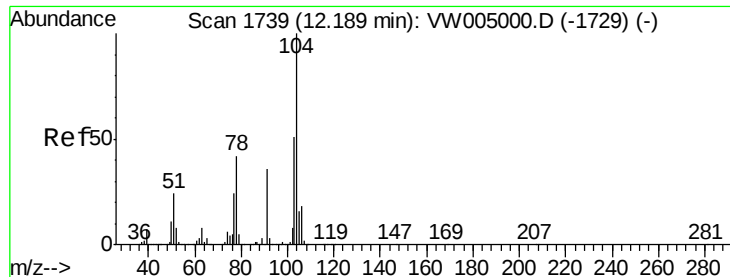
Tot Ion:106 Resp: 1228
Ion Ratio Lower Upper
106 100
91 194.1 158.4 237.6



#69
o-Xylene
Concen: 4.164 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion:106 Resp: 748
Ion Ratio Lower Upper
106 100
91 179.4 104.4 313.1

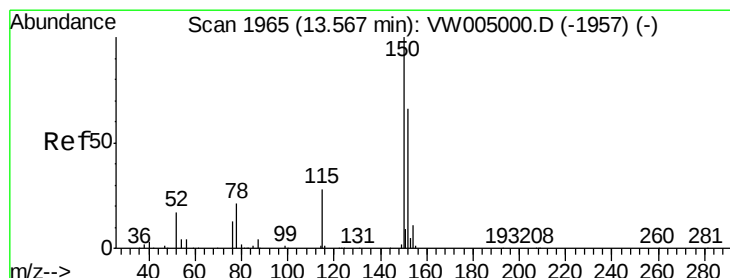
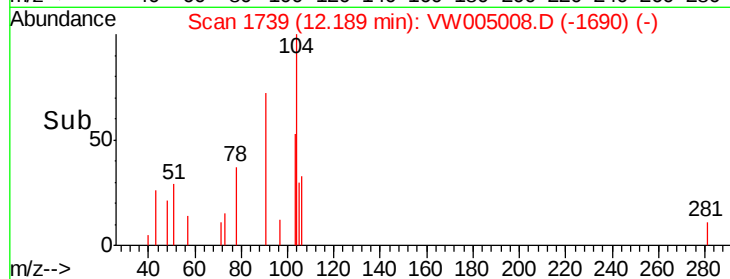
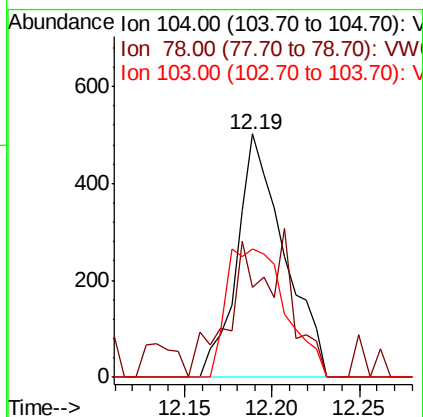
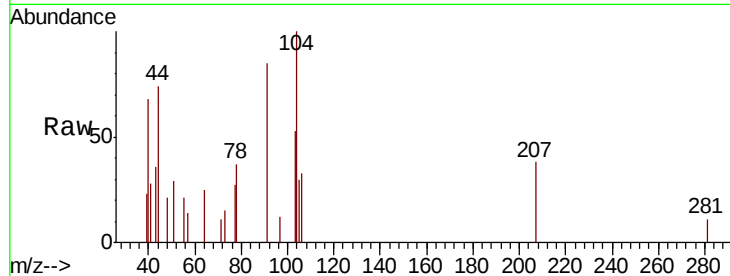




#70
Stvrene
Concen: 3.178 ug/l
RT: 12.19 min Scan# 1739
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

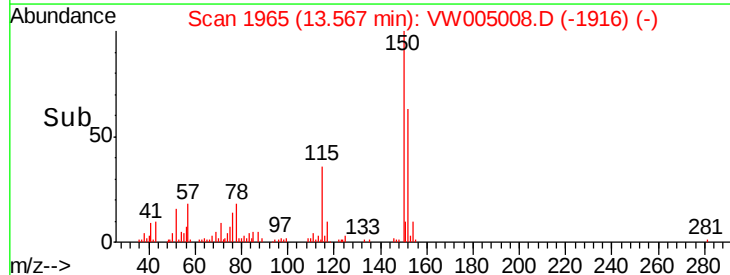
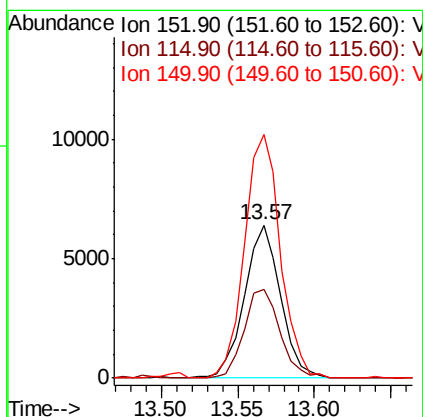
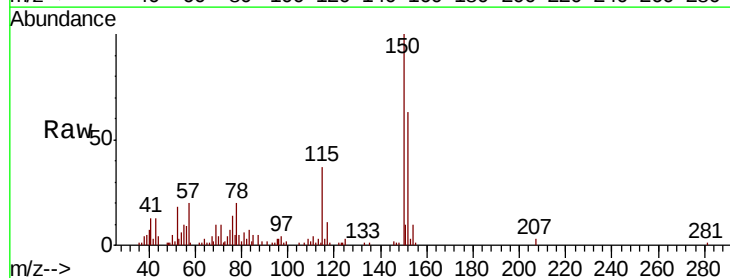
Instrument :
MSVOA_W
ClientSampleId :
HD-01-082718RE

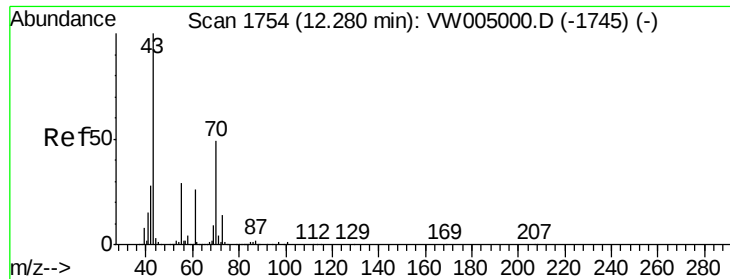
Tot Ion:104 Resp: 947
Ion Ratio Lower Upper
104 100
78 46.1 37.6 56.4
103 66.3 43.9 65.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW005008.D
Acq: 30 Aug 2018 05:37

Tgt Ion:152 Resp: 10486
Ion Ratio Lower Upper
152 100
115 57.5 28.0 83.9
150 157.8 0.0 347.2





#74

N-amvl acetate

Concen: 8.278 ug/l

RT: 12.27 min Scan# 1753

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

HD-01-082718RE

Tot Ion: 43 Resp: 1092

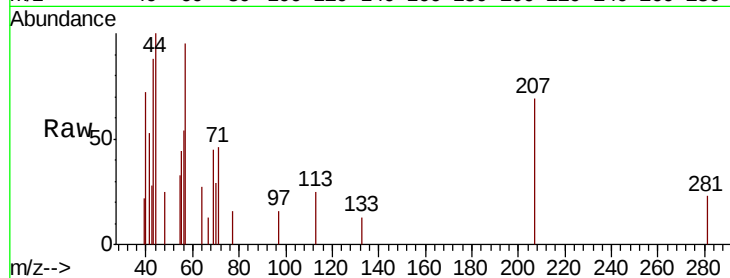
Ion Ratio Lower Upper

43 100

70 15.0 38.6 57.8#

55 36.9 23.6 35.4#

61 0.0 21.0 31.6#

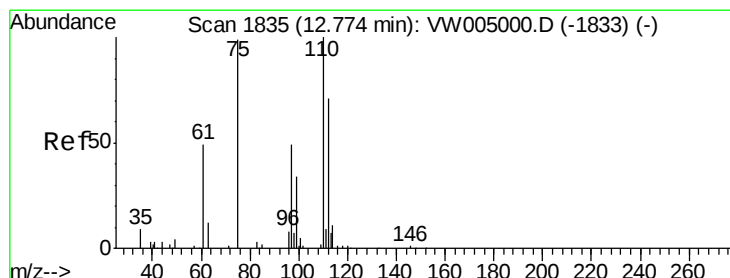
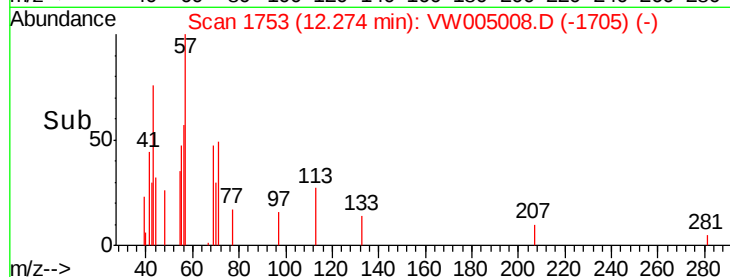
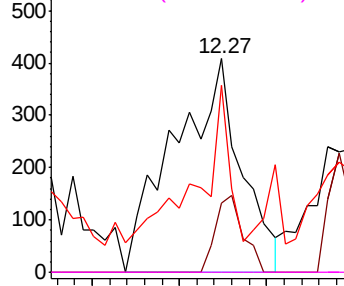


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#76

1,2,3-Trichloropropane

Concen: 3.986 ug/l

RT: 12.78 min Scan# 1836

Delta R.T. 0.01 min

Lab File: VW005008.D

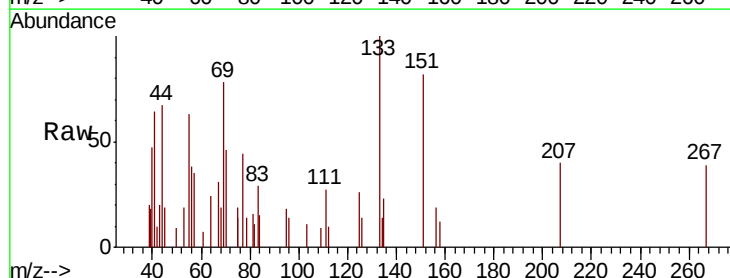
Acq: 30 Aug 2018 05:37

Tgt Ion: 75 Resp: 296

Ion Ratio Lower Upper

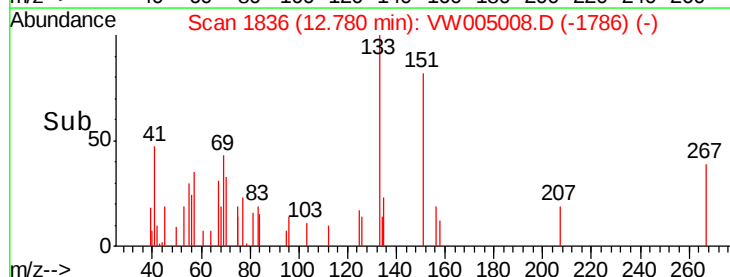
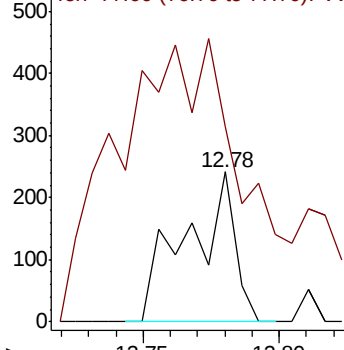
75 100

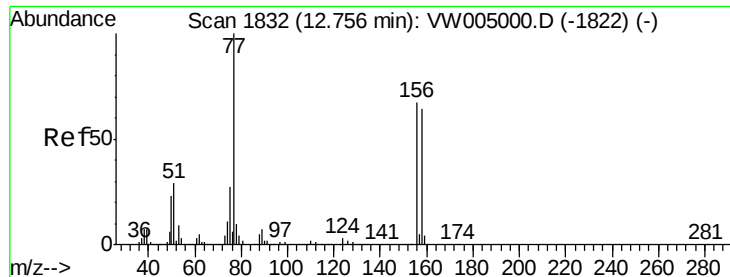
77 485.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.431 ug/l

RT: 12.76 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

HD-01-082718RE

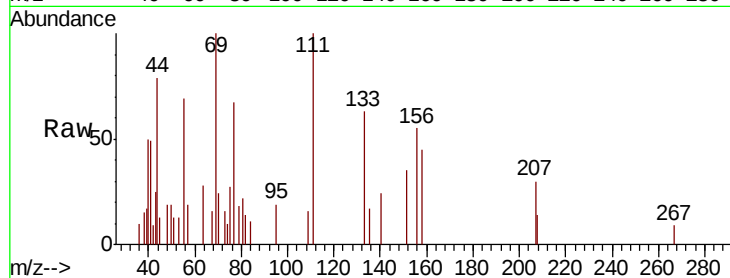
Tot Ion:156 Resp: 417

Ion Ratio Lower Upper

156 100

77 344.8 86.9 260.6#

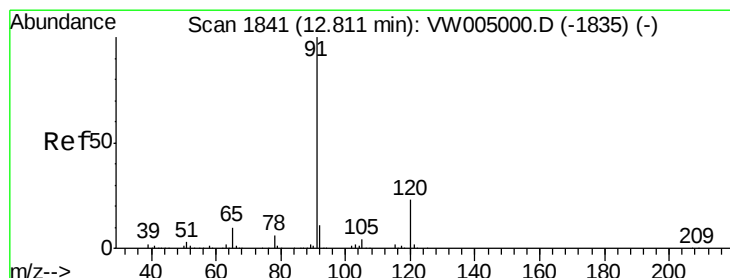
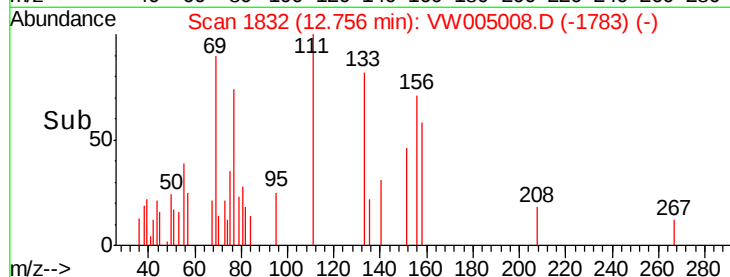
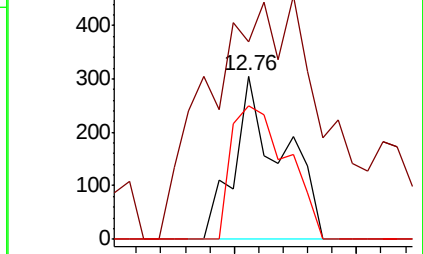
158 95.7 48.6 145.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.755 ug/l

RT: 12.82 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VW005008.D

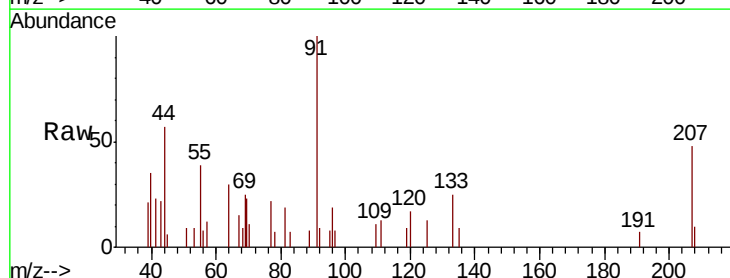
Acq: 30 Aug 2018 05:37

Tgt Ion: 91 Resp: 1513

Ion Ratio Lower Upper

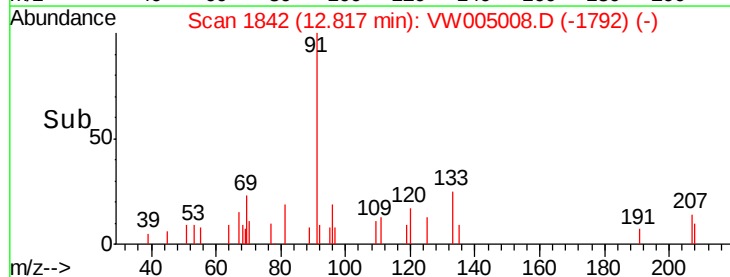
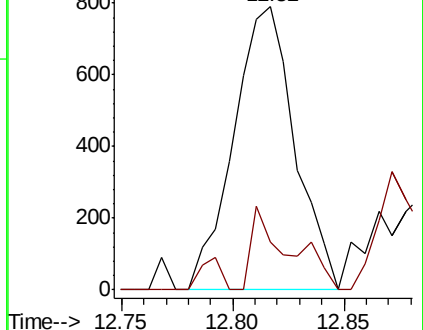
91 100

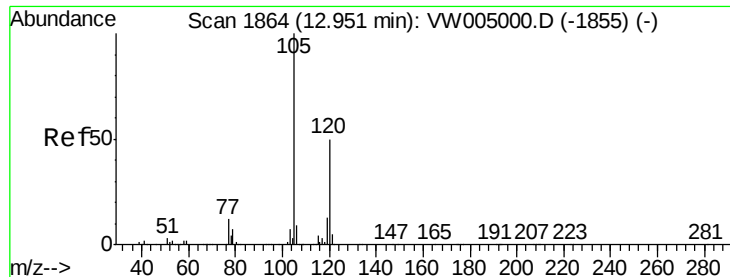
120 18.2 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 2.301 ug/l

RT: 12.96 min Scan# 1865

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

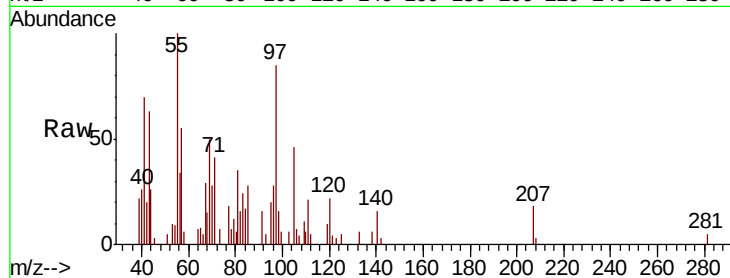
HD-01-082718RE

Tot Ion:105 Resp: 1421

Ion Ratio Lower Upper

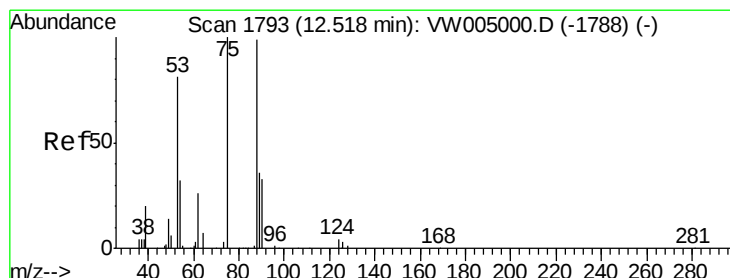
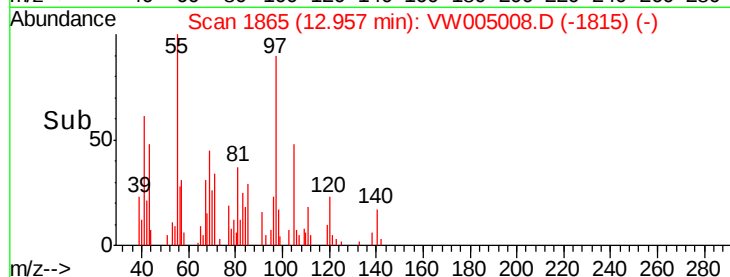
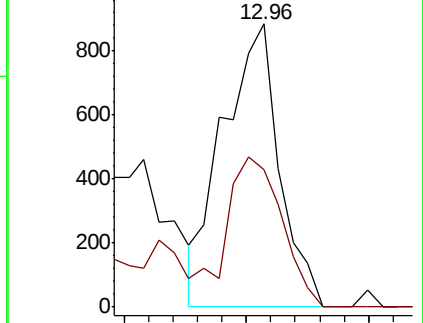
105 100

120 52.5 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 106.143 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

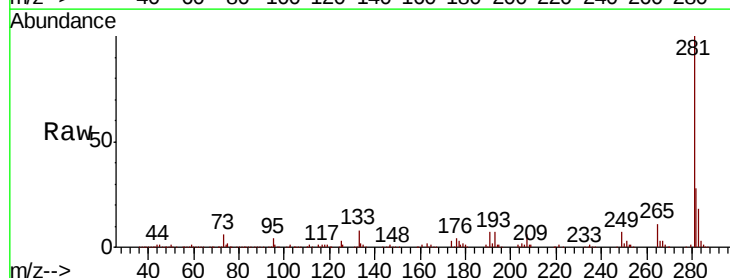
Tgt Ion: 75 Resp: 3488

Ion Ratio Lower Upper

75 100

53 0.9 67.4 101.2#

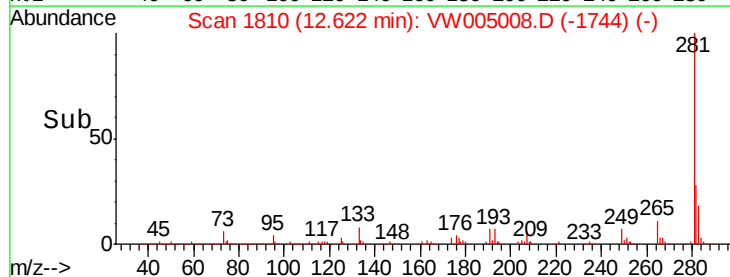
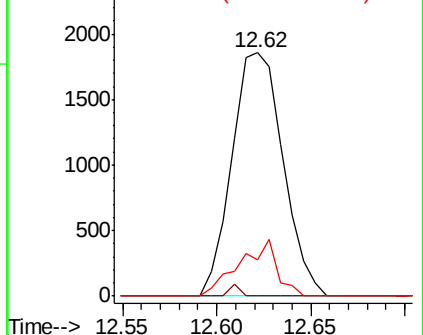
89 17.4 35.0 52.6#

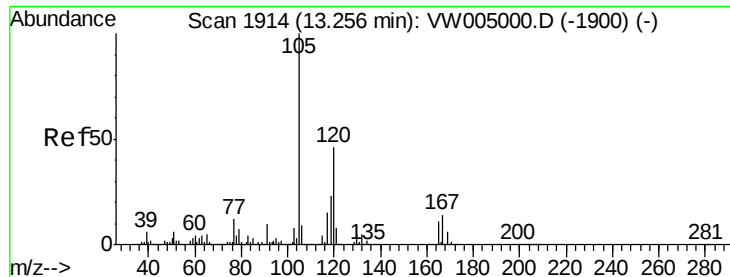


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

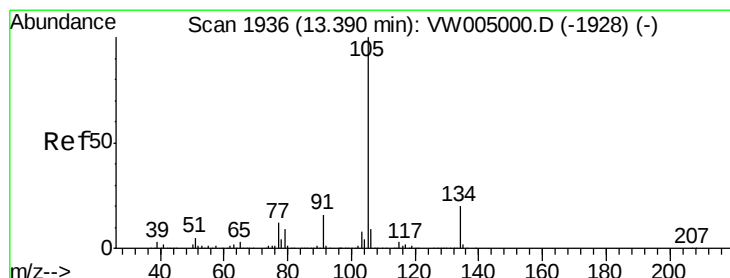
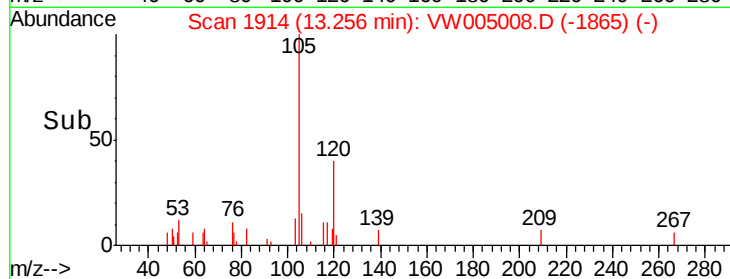
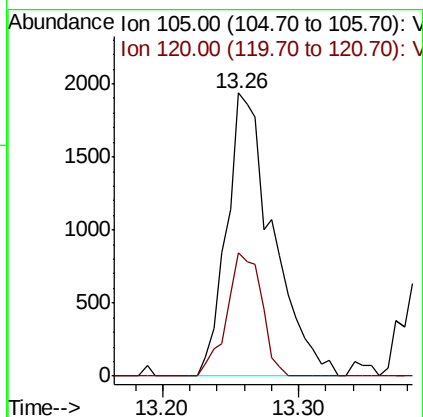
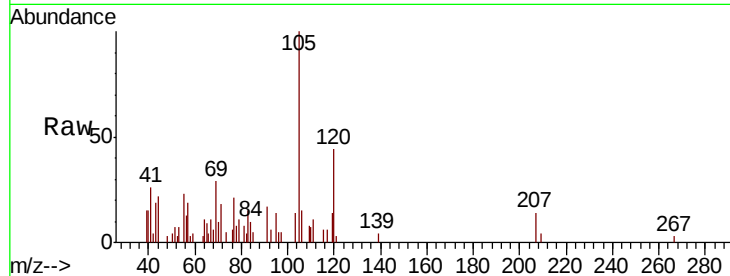




#84
 1,2,4-Trimethylbenzene
 Concen: 7.294 ug/l
 RT: 13.26 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

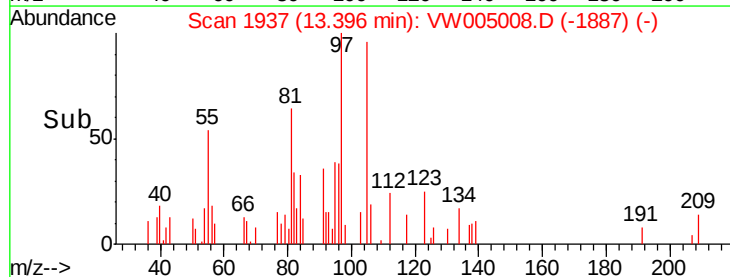
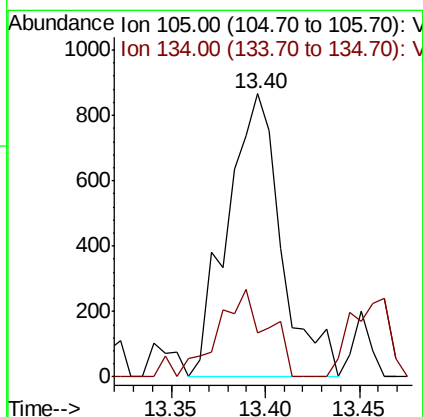
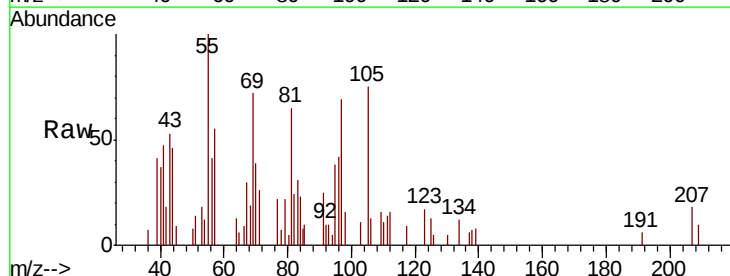
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-082718RE

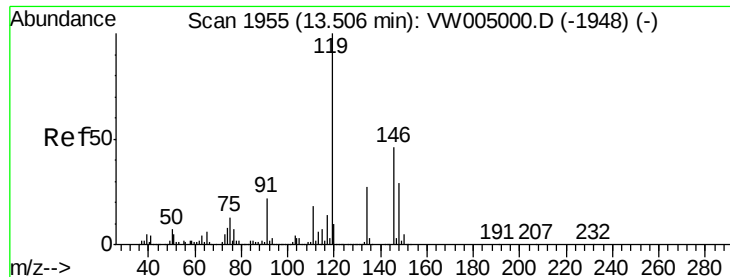
Tot Ion:105 Resp: 4571
 Ion Ratio Lower Upper
 105 100
 120 32.9 22.9 68.7



#85
 sec-Butylbenzene
 Concen: 2.258 ug/l
 RT: 13.40 min Scan# 1937
 Delta R.T. 0.01 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Tgt Ion:105 Resp: 1719
 Ion Ratio Lower Upper
 105 100
 134 28.0 10.1 30.3

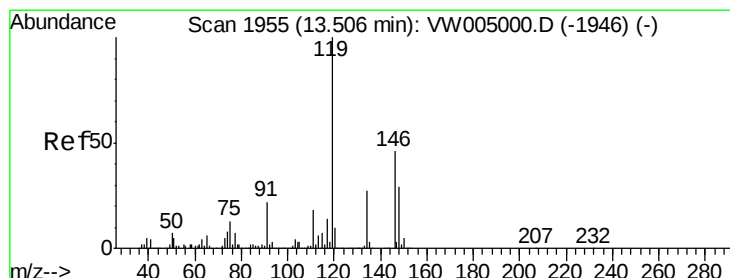
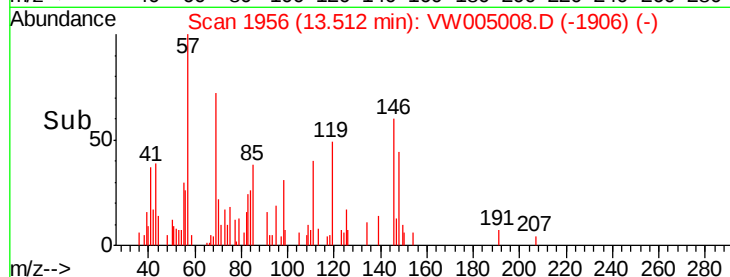
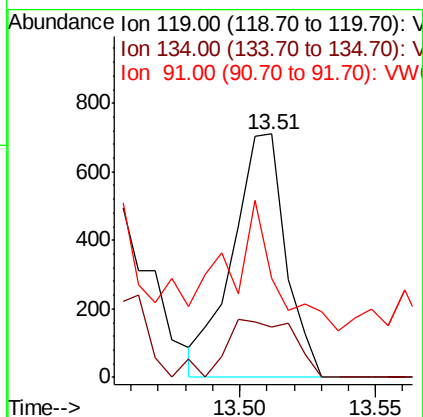
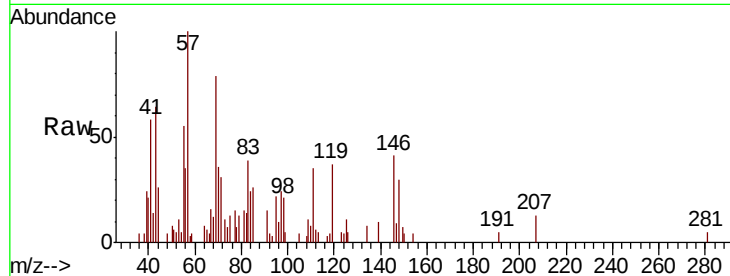




#86
 p-Isopropyltoluene
 Concen: 1.410 ug/l
 RT: 13.51 min Scan# 1956
 Delta R.T. 0.01 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

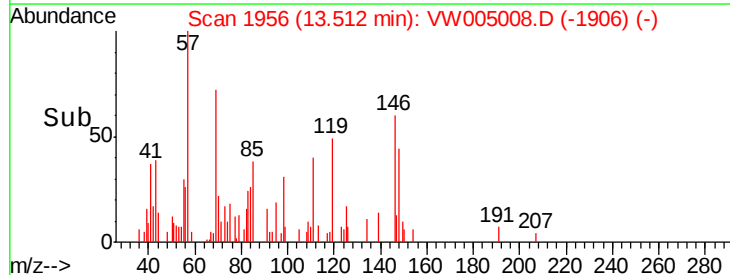
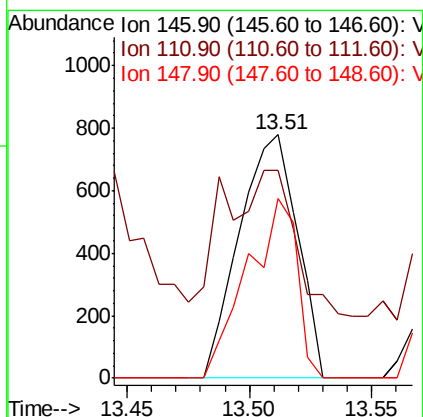
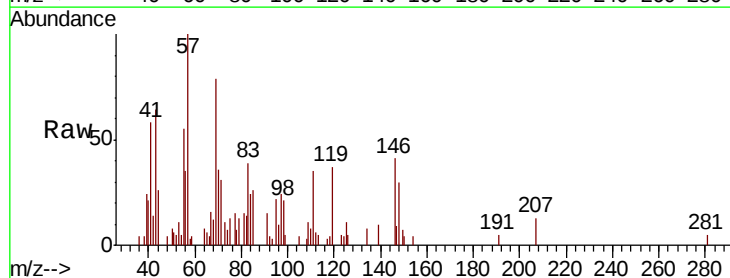
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-082718RE

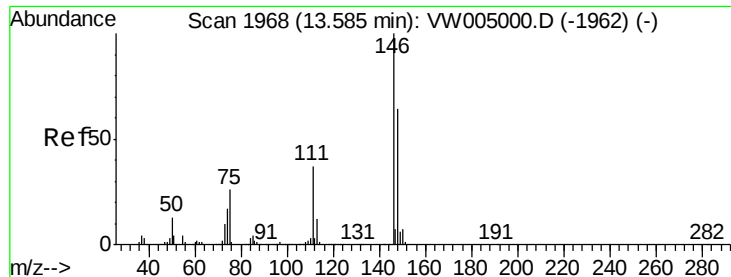
Tot Ion	Ratio	Lower	Upper
119	100		
134	31.2	13.1	39.3
91	46.9	10.9	32.9#



#87
 1,3-Dichlorobenzene
 Concen: 3.540 ug/l
 RT: 13.51 min Scan# 1956
 Delta R.T. 0.01 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	72.5	19.3	57.8#
148	63.6	31.6	94.7

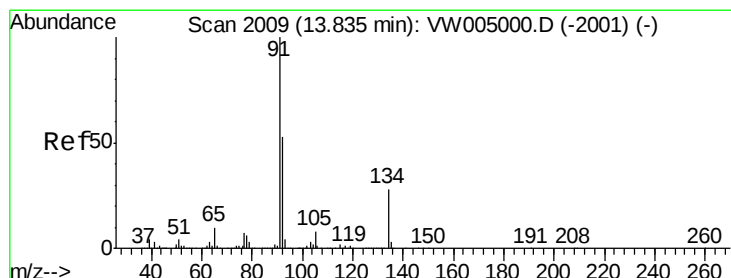
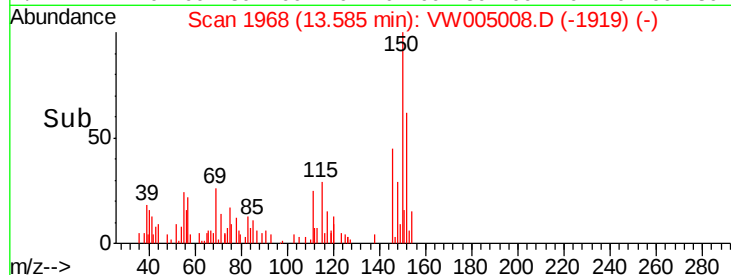
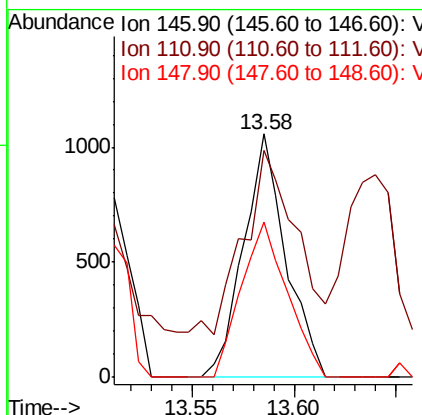
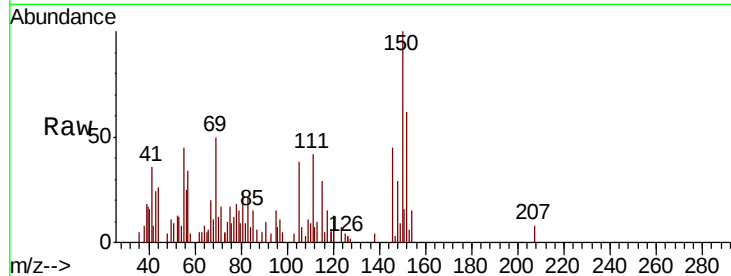




#88
 1,4-Dichlorobenzene
 Concen: 4.229 ug/l
 RT: 13.58 min Scan# 1968
 Delta R.T. -0.00 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

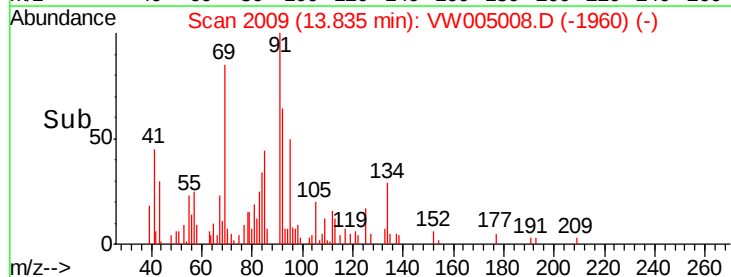
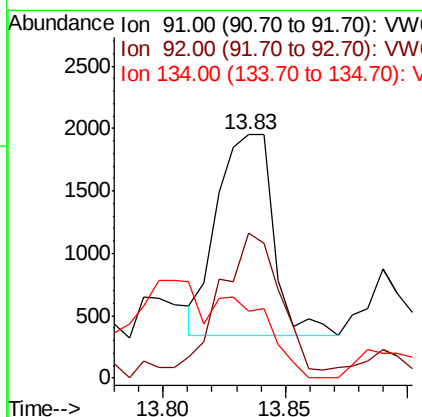
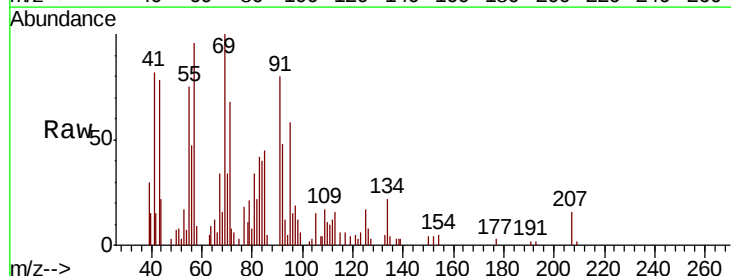
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-082718RE

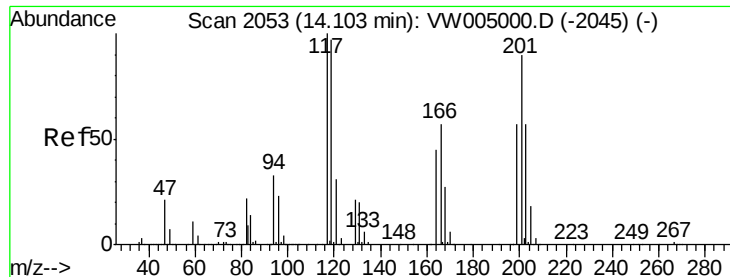
Tot Ion:146 Resp: 1523
 Ion Ratio Lower Upper
 146 100
 111 89.6 18.7 56.1#
 148 69.6 31.7 95.1



#89
 n-Butylbenzene
 Concen: 4.015 ug/l
 RT: 13.83 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Tgt Ion: 91 Resp: 2571
 Ion Ratio Lower Upper
 91 100
 92 83.0 26.5 79.4#
 134 0.0 13.4 40.1#





#90

Hexachloroethane

Concen: 5.717 ug/l

RT: 14.11 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

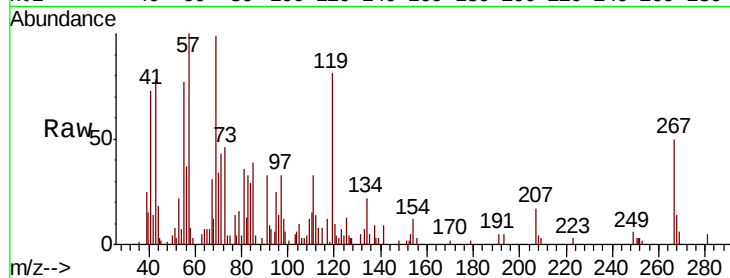
HD-01-082718RE

Tot Ion:117 Resp: 613

Ion Ratio Lower Upper

117 100

201 0.0 44.3 132.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.11

400

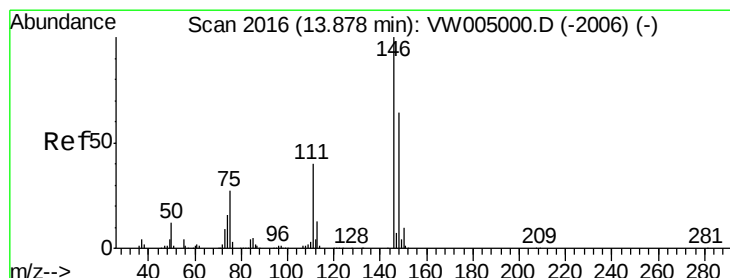
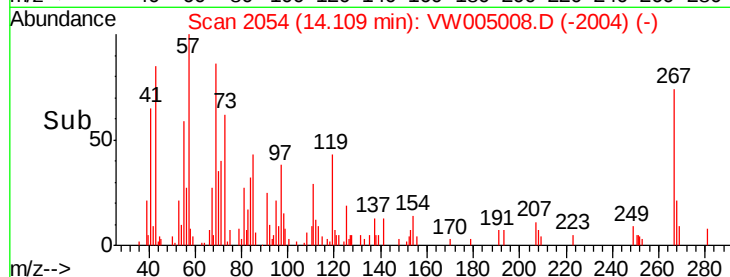
300

200

100

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 3.534 ug/l

RT: 13.88 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

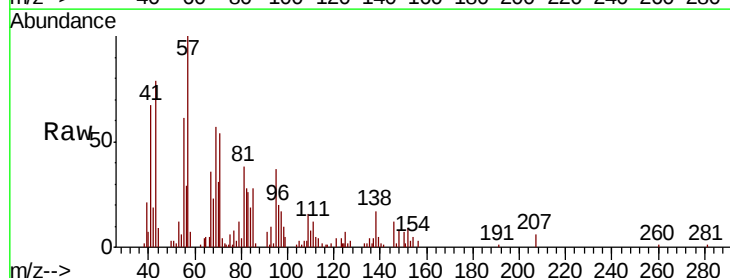
Tgt Ion:146 Resp: 1131

Ion Ratio Lower Upper

146 100

111 211.2 19.9 59.7#

148 72.6 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

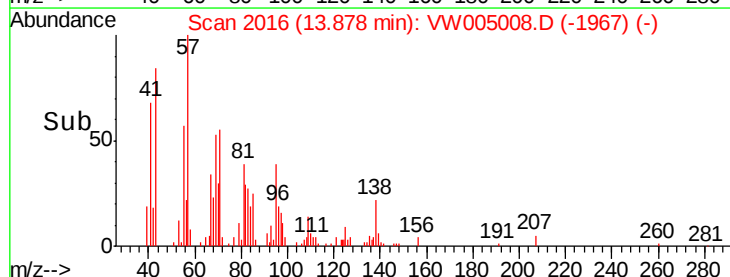
13.88

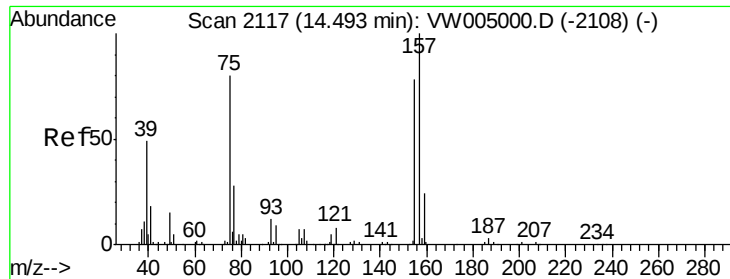
1000

500

0

Time-->

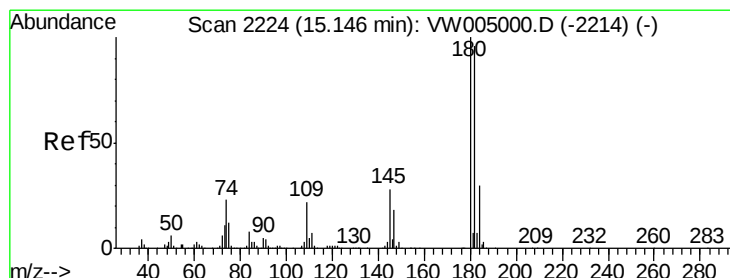
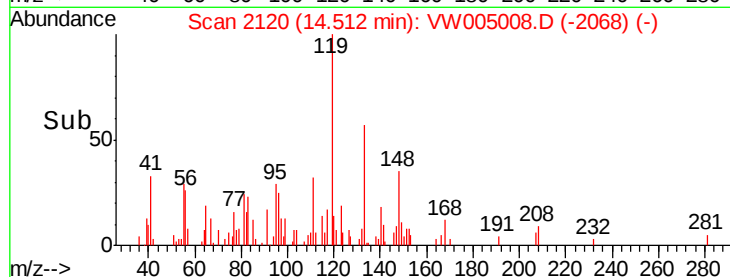
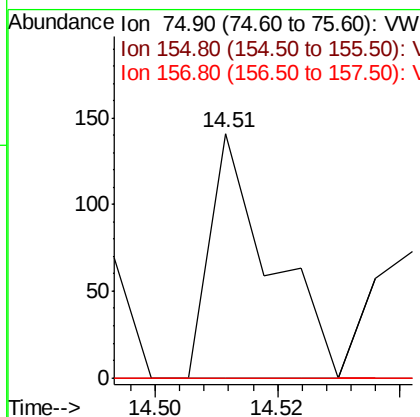
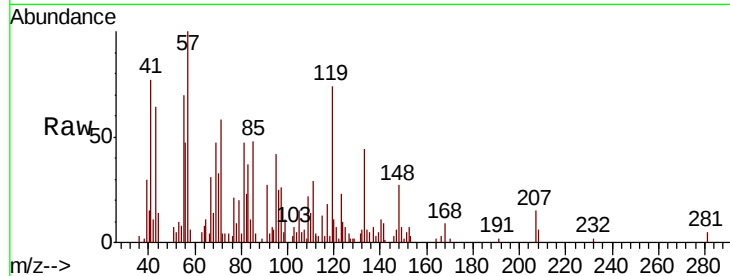




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.252 ug/l
 RT: 14.51 min Scan# 2120
 Delta R.T. 0.02 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

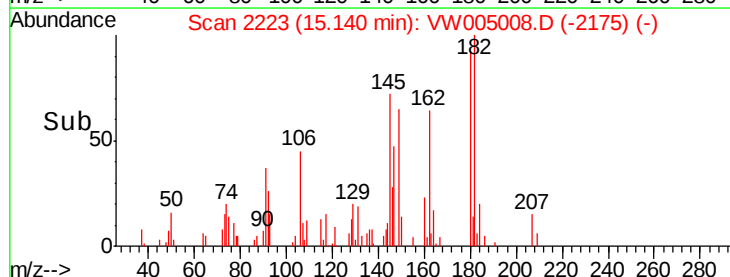
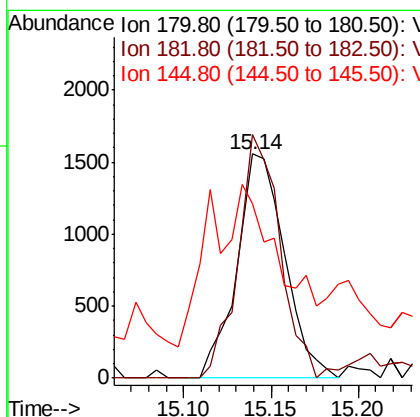
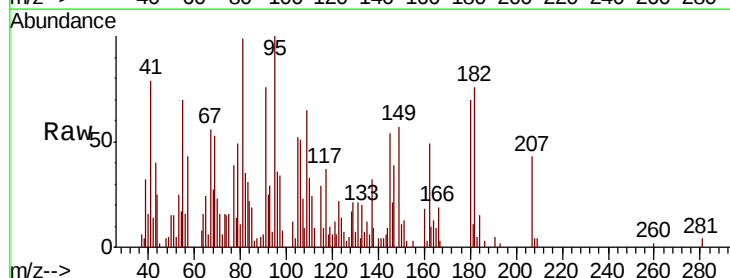
Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-082718RE

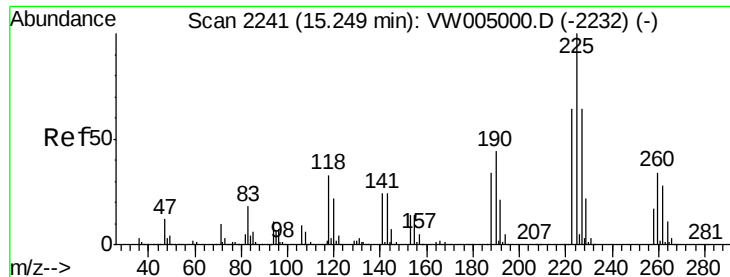
Tot Ion: 75 Resp: 96
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.1 138.2#
 157 0.0 58.7 176.1#



#93
 1,2,4-Trichlorobenzene
 Concen: 13.179 ug/l
 RT: 15.14 min Scan# 2223
 Delta R.T. -0.01 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Tgt Ion:180 Resp: 2955
 Ion Ratio Lower Upper
 180 100
 182 96.4 47.6 142.8
 145 40.6 14.3 42.9





#94

Hexachlorobutadiene

Concen: 3.142 ug/l

RT: 15.24 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

Instrument :

MSVOA_W

ClientSampleId :

HD-01-082718RE

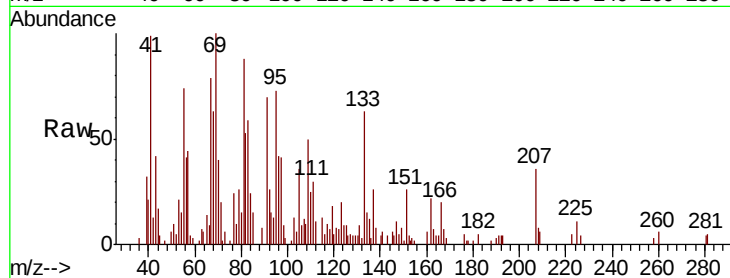
Tot Ion:225 Resp: 441

Ion Ratio Lower Upper

225 100

223 60.3 32.0 96.0

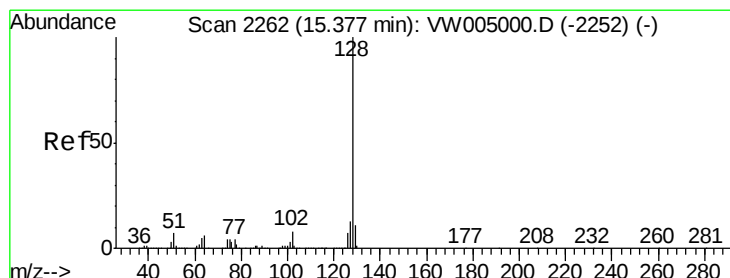
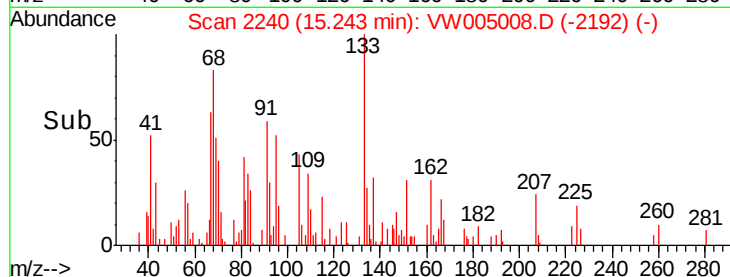
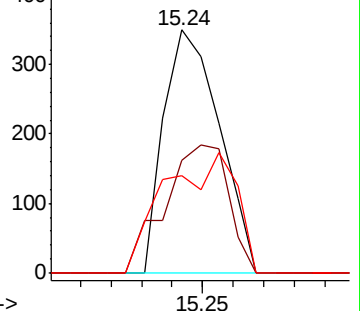
227 63.7 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 233.548 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW005008.D

Acq: 30 Aug 2018 05:37

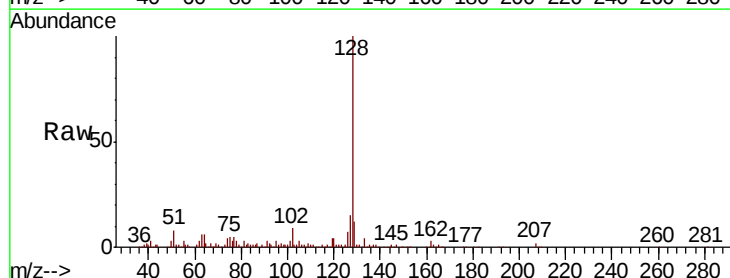
Tgt Ion:128 Resp: 104984

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

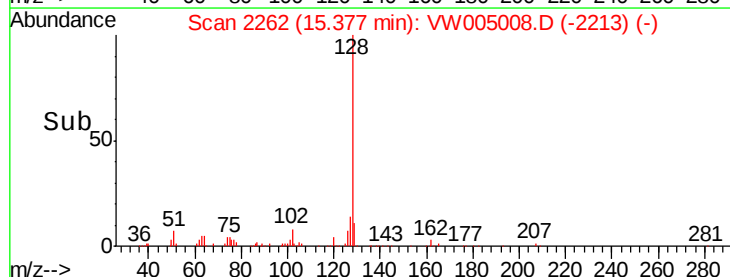
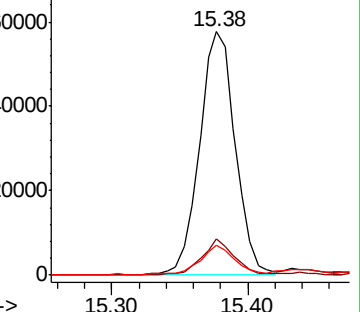
129 11.6 8.7 13.1

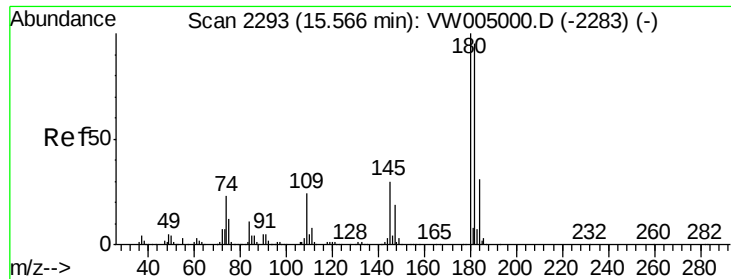


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

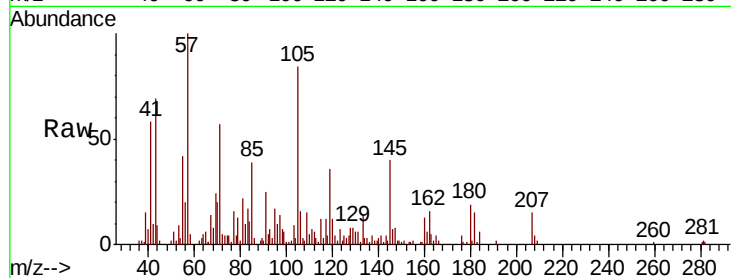




#96
 1,2,3-Trichlorobenzene
 Concen: 18.220 ug/l
 RT: 15.57 min Scan# 2293
 Delta R.T. -0.00 min
 Lab File: VW005008.D
 Acq: 30 Aug 2018 05:37

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-01-082718RE

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.4	47.6	142.8
145	242.4	15.1	45.3



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

