

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121718\
 Data File : VD060614.D
 Acq On : 17 Dec 2018 22:10
 Operator : VA/AP
 Sample : J6319-11
 Misc : 5.07g/5ml/MSVOA_D/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 065_SW-W-1

Quant Time: Dec 18 11:19:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.42	168	1283719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.46	114	1851469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	1434923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	574750	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.80	65	525072	57.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.42%	
35) Dibromofluoromethane	6.34	113	672763	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
50) Toluene-d8	9.47	98	1905279	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
62) 4-Bromofluorobenzene	12.43	95	605249	42.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.96%	

Target Compounds

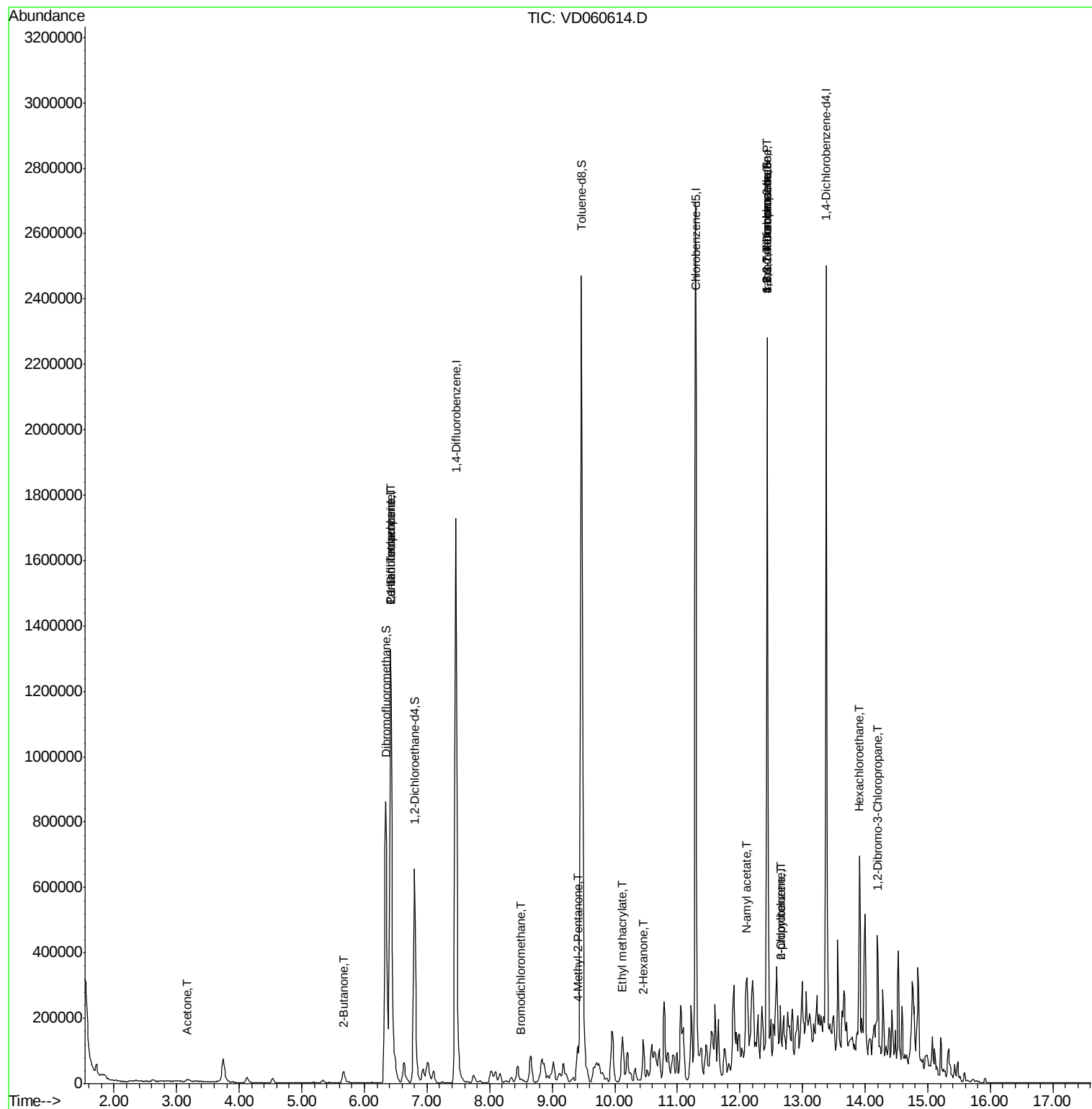
					Qvalue	
2) Dichlorodifluoromethane	1.60	85	1118	Below Cal	#	41
16) Acetone	3.17	43	12466	8.547	ug/l	97
20) Methylene Chloride	3.74	84	34450	Below Cal		94
25) 2-Butanone	5.66	43	5973	2.082	ug/l #	59
31) Cyclohexane	6.42	56	31945	Below Cal	#	1
36) 1,1-Dichloropropene	6.42	75	95619	5.283	ug/l #	47
38) Carbon Tetrachloride	6.42	117	99642	6.133	ug/l #	16
47) Bromodichloromethane	8.51	83	16245	1.036	ug/l #	24
51) 4-Methyl-2-Pentanone	9.41	43	12220	2.028	ug/l #	57
56) Ethyl methacrylate	10.12	69	12952	1.778	ug/l #	1
59) 2-Hexanone	10.45	43	64959	15.420	ug/l #	34
74) N-amyl acetate	12.10	43	38710	3.938	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.44	83	7467	1.147	ug/l	83
76) 1,2,3-Trichloropropane	12.43	75	198429	30.470	ug/l #	46
78) n-propylbenzene	12.65	91	112931	2.197	ug/l	99
79) 2-Chlorotoluene	12.65	91	112931	4.048	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.43	75	244291	134.499	ug/l #	15
90) Hexachloroethane	13.91	117	20918	2.423	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.19	75	911	1.155	ug/l #	2

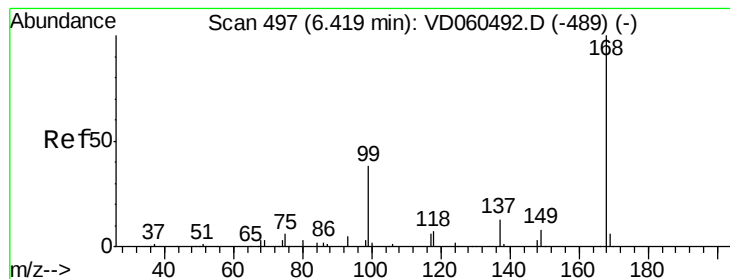
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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065_SW-W-1

Quant Time: Dec 18 11:19:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.00 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

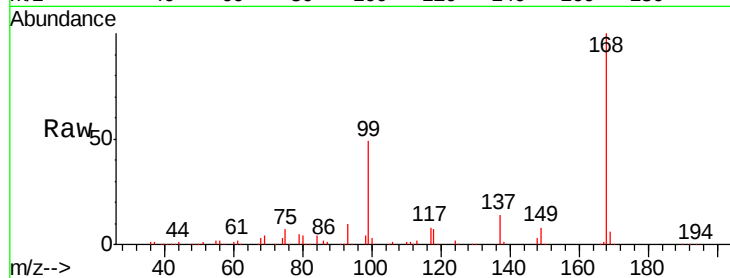
065_SW-W-1

Tgt Ion:168 Resp: 1283719

Ion Ratio Lower Upper

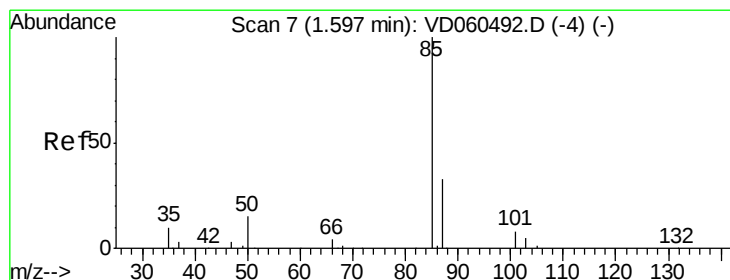
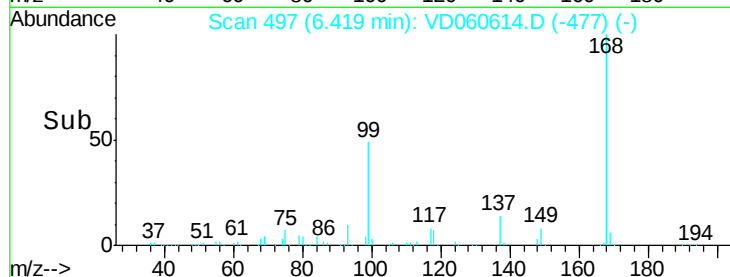
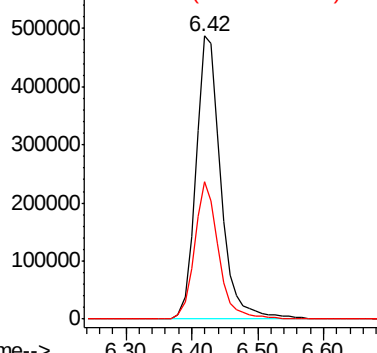
168 100

99 48.7 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 7

Delta R.T. -0.00 min

Lab File: VD060614.D

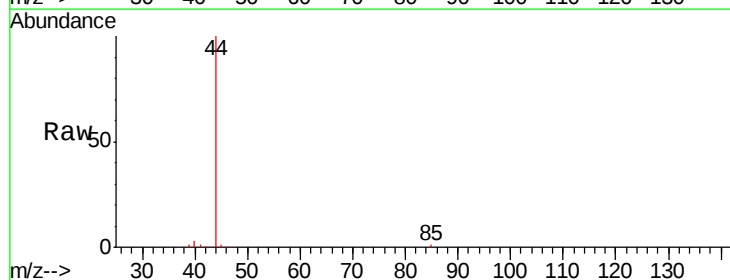
Acq: 17 Dec 2018 22:10

Tgt Ion: 85 Resp: 1118

Ion Ratio Lower Upper

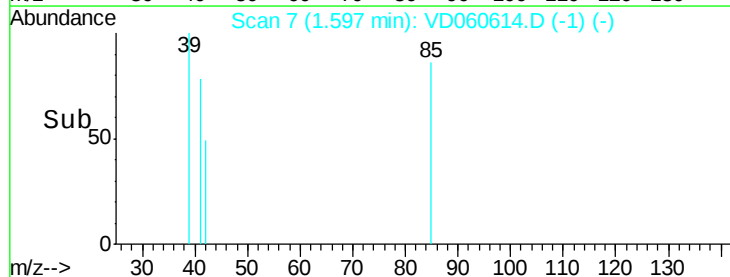
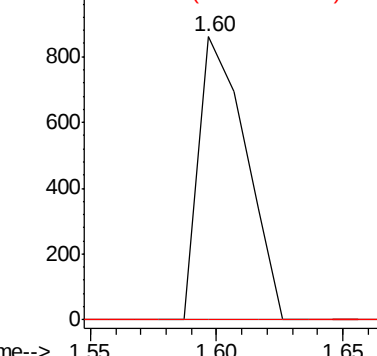
85 100

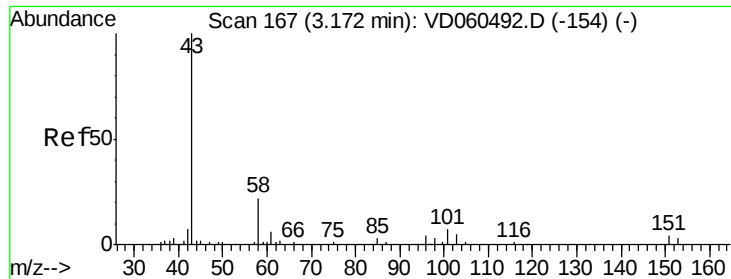
87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#16

Acetone

Concen: 8.547 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

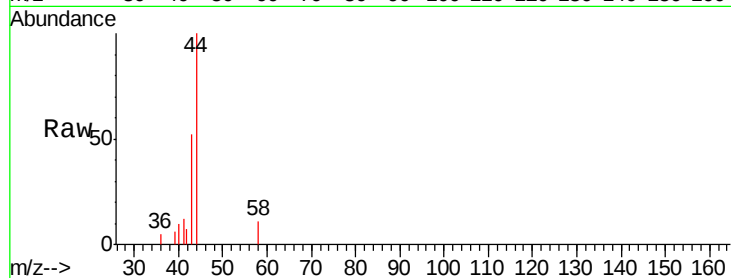
065_SW-W-1

Tgt Ion: 43 Resp: 12466

Ion Ratio Lower Upper

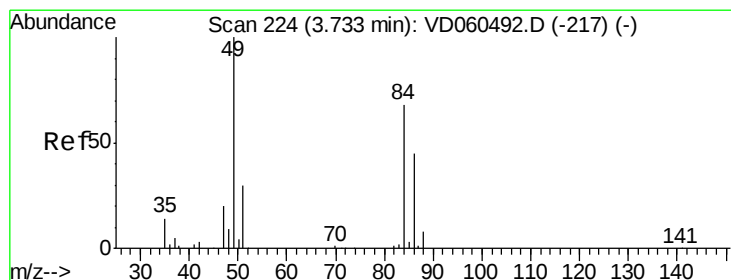
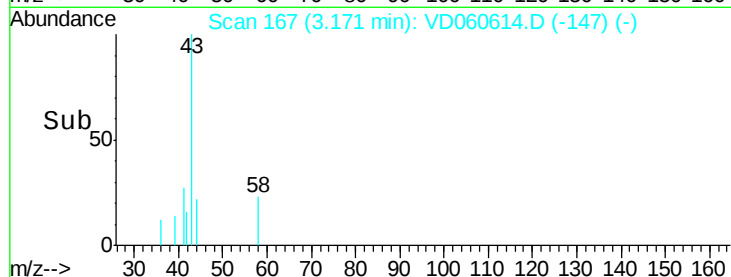
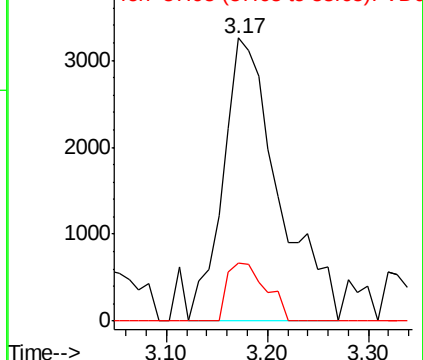
43 100

58 20.3 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.74 min Scan# 225

Delta R.T. 0.01 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Tgt Ion: 84 Resp: 34450

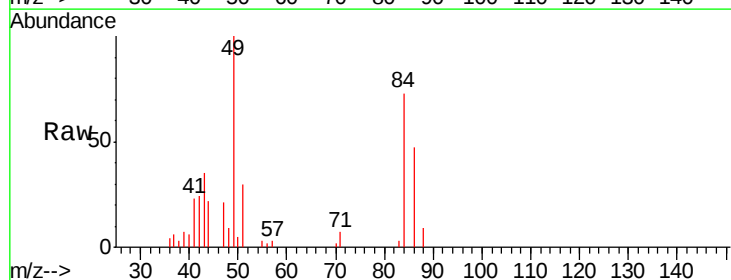
Ion Ratio Lower Upper

84 100

49 136.3 117.2 175.8

51 40.3 35.3 52.9

86 64.2 53.2 79.8

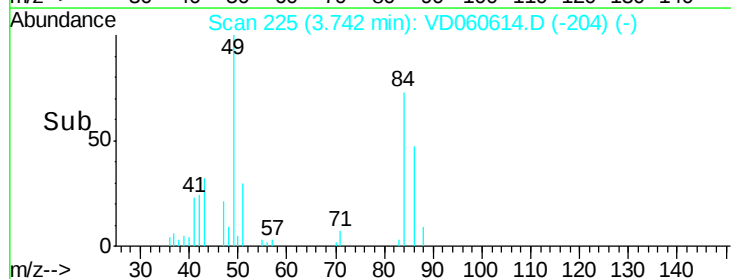
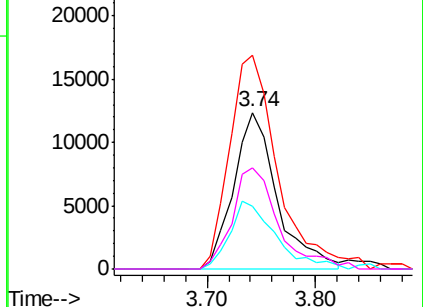


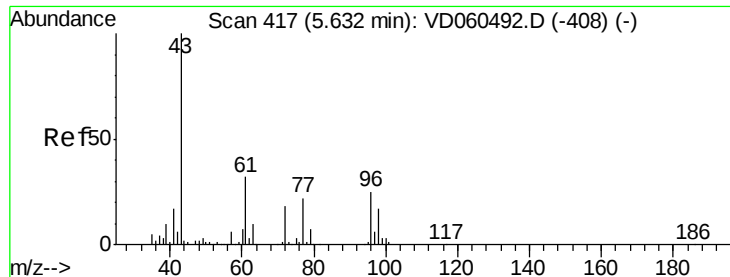
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

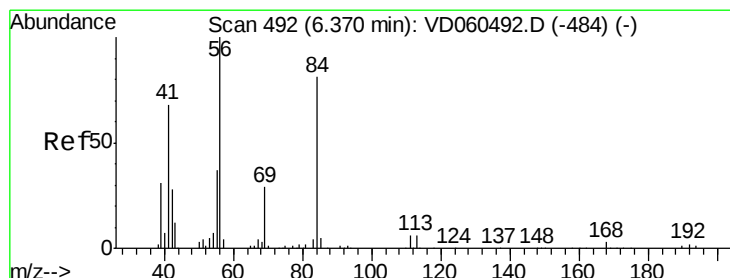
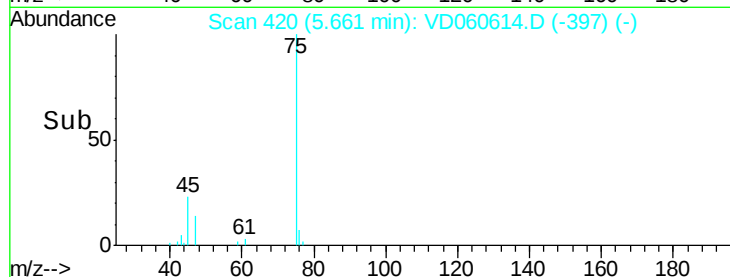
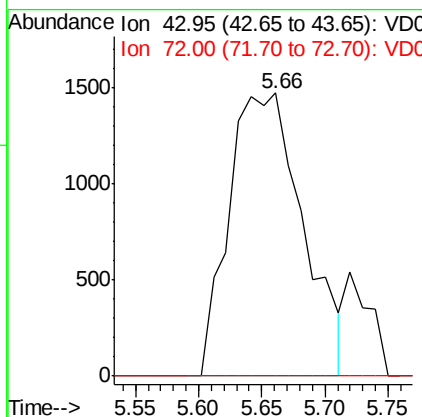
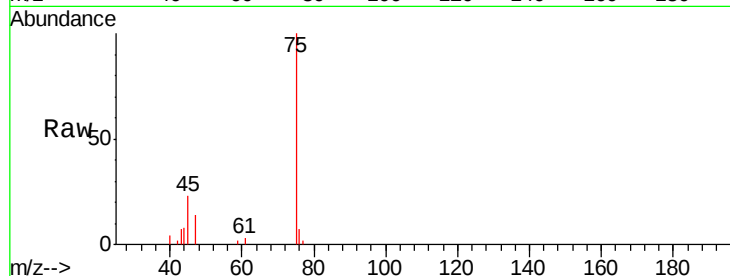




#25
2-Butanone
Concen: 2.082 ug/l
RT: 5.66 min Scan# 420
Delta R.T. 0.03 min
Lab File: VD060614.D
Acq: 17 Dec 2018 22:10

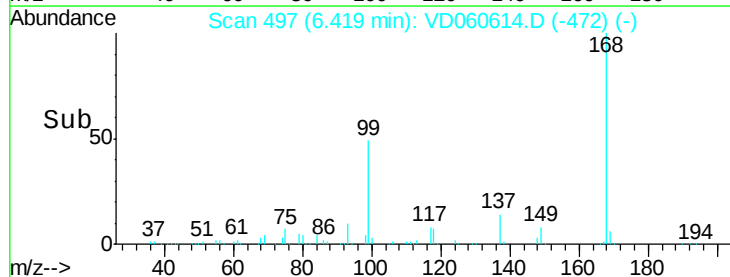
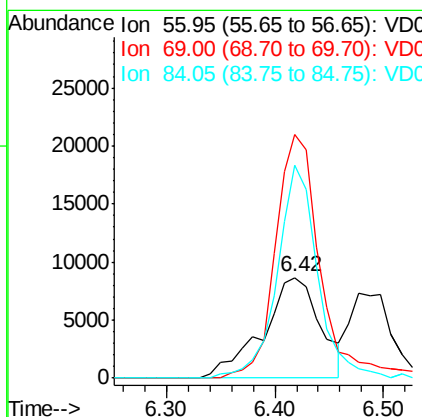
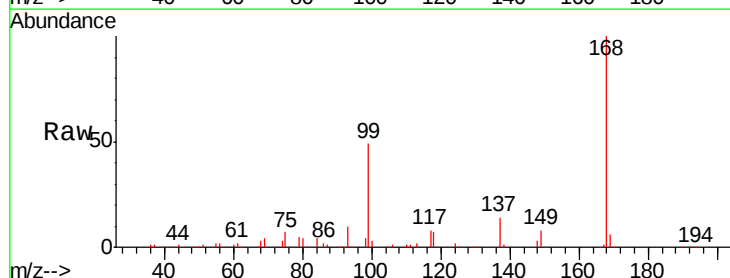
Instrument :
MSVOA_D
ClientSampleId :
065_SW-W-1

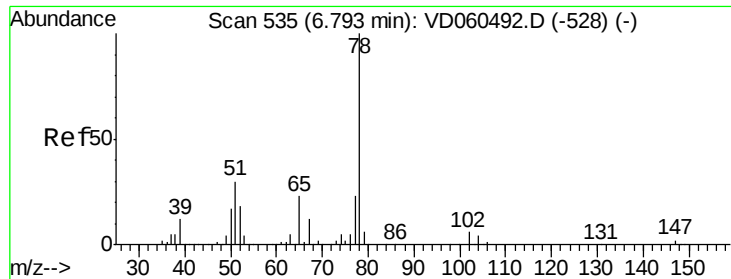
Tgt Ion: 43 Resp: 5973
Ion Ratio Lower Upper
43 100
72 0.0 14.6 21.8#



#31
Cyclohexane
Concen: Below Cal
RT: 6.42 min Scan# 497
Delta R.T. 0.05 min
Lab File: VD060614.D
Acq: 17 Dec 2018 22:10

Tgt Ion: 56 Resp: 31945
Ion Ratio Lower Upper
56 100
69 242.0 22.8 34.2#
84 211.9 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.80 min Scan# 536

Delta R.T. 0.01 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

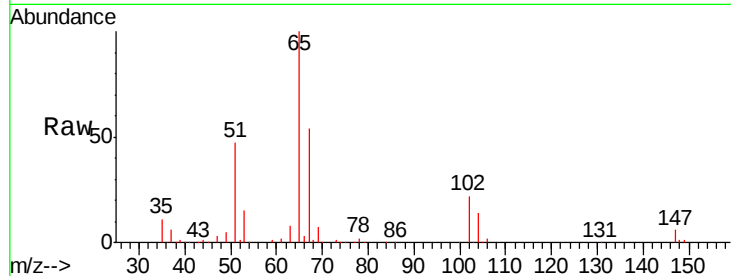
065_SW-W-1

Tgt Ion: 65 Resp: 525072

Ion Ratio Lower Upper

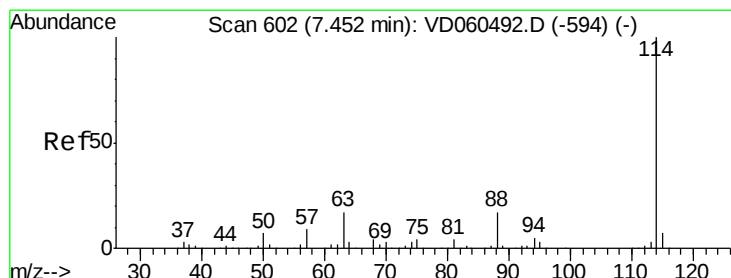
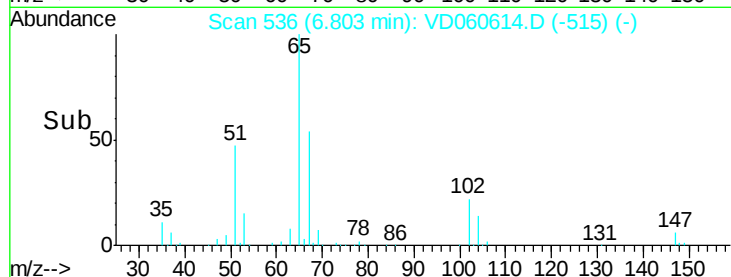
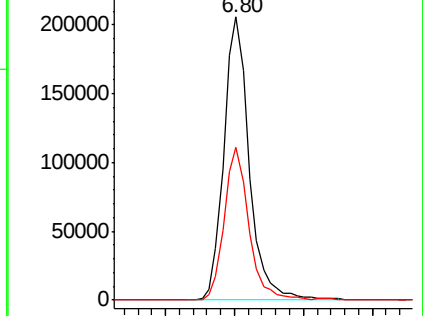
65 100

67 54.2 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.46 min Scan# 603

Delta R.T. 0.01 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

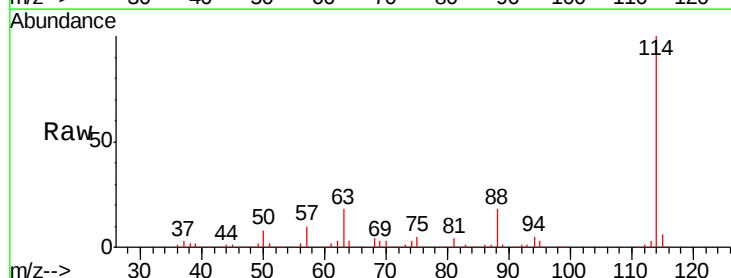
Tgt Ion: 114 Resp: 1851469

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.2

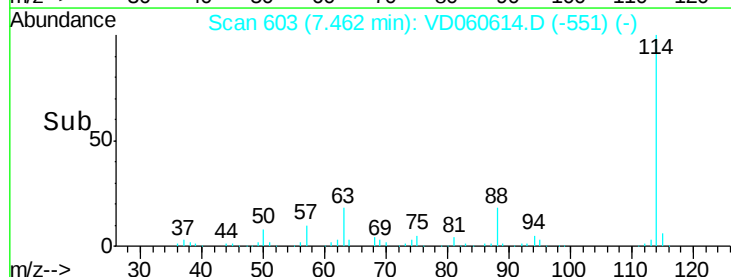
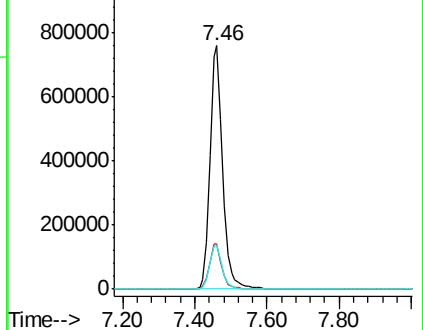
88 18.3 0.0 35.0

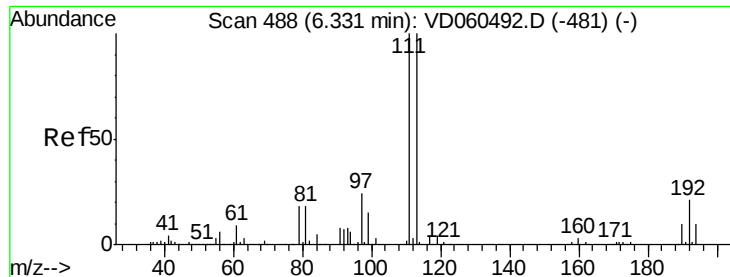


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

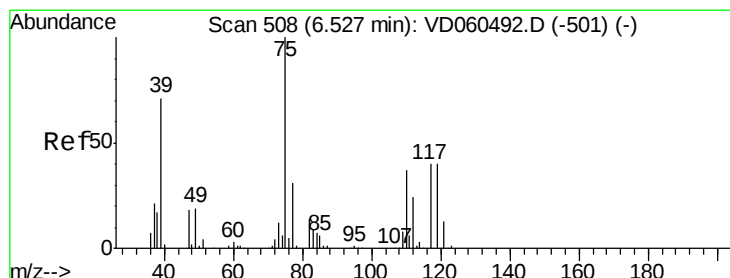
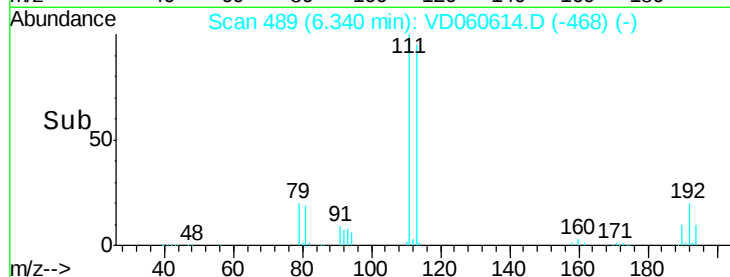
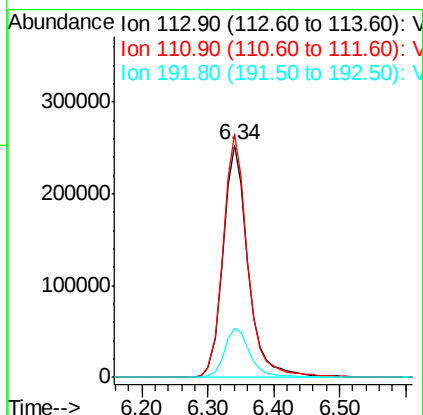
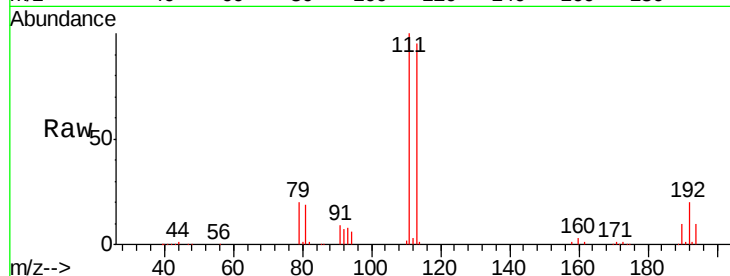




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.34 min Scan# 489
 Delta R.T. 0.01 min
 Lab File: VD060614.D
 Acq: 17 Dec 2018 22:10

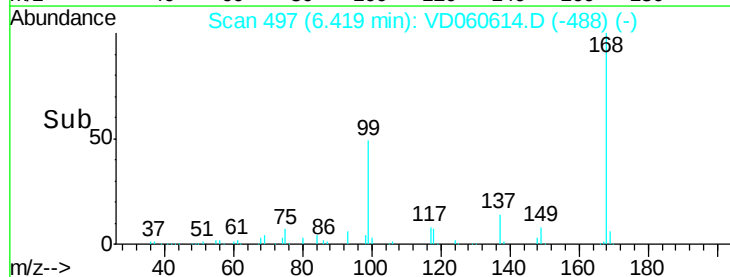
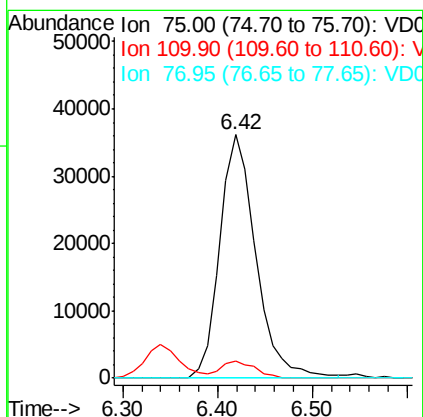
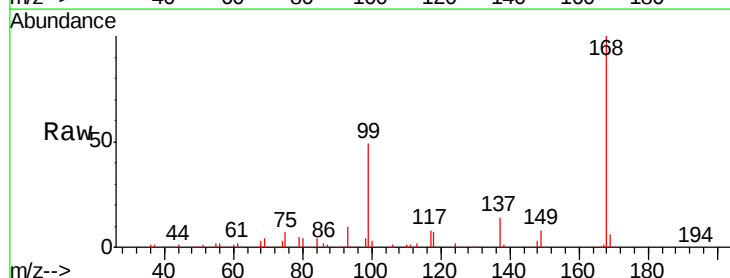
Instrument :
 MSVOA_D
 ClientSampleId :
 065_SW-W-1

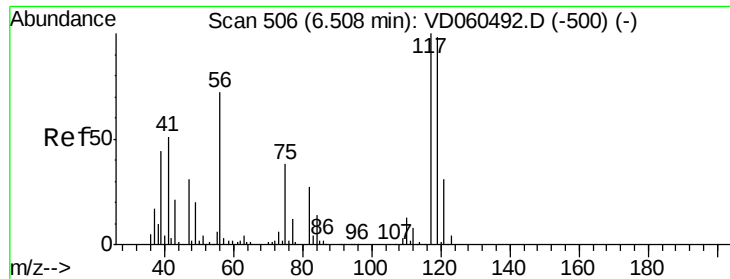
Tgt Ion: 113 Resp: 672763
 Ion Ratio Lower Upper
 113 100
 111 104.7 80.2 120.4
 192 20.8 16.6 24.8



#36
 1,1-Dichloropropene
 Concen: 5.283 ug/l
 RT: 6.42 min Scan# 497
 Delta R.T. -0.11 min
 Lab File: VD060614.D
 Acq: 17 Dec 2018 22:10

Tgt Ion: 75 Resp: 95619
 Ion Ratio Lower Upper
 75 100
 110 6.9 18.3 54.8#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.133 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.09 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

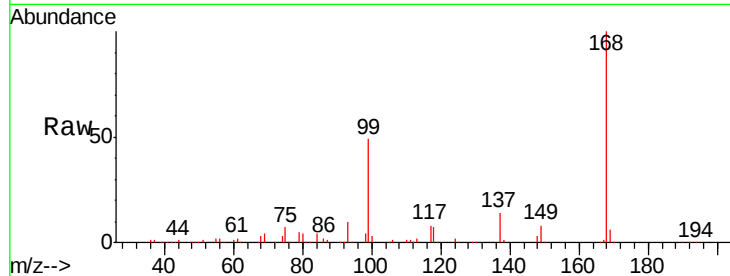
Tgt Ion:117 Resp: 99642

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

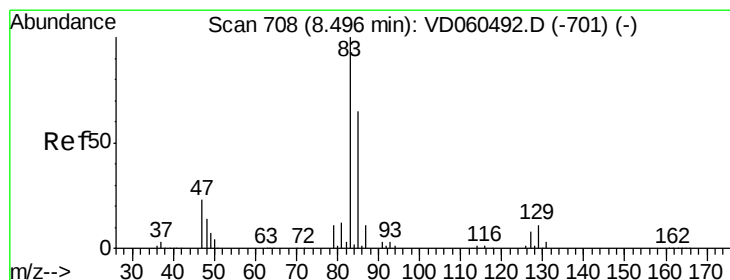
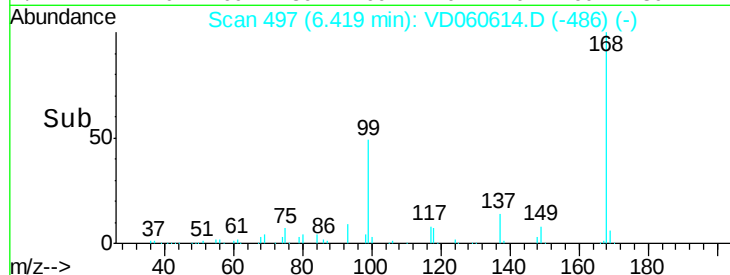
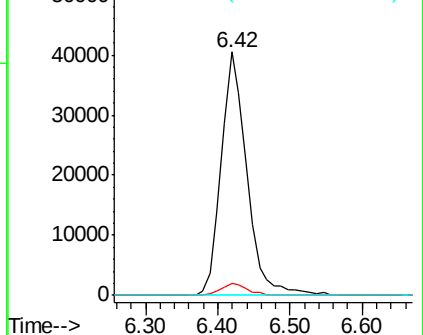
121 0.0 24.4 36.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#47

Bromodichloromethane

Concen: 1.036 ug/l

RT: 8.51 min Scan# 709

Delta R.T. 0.01 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

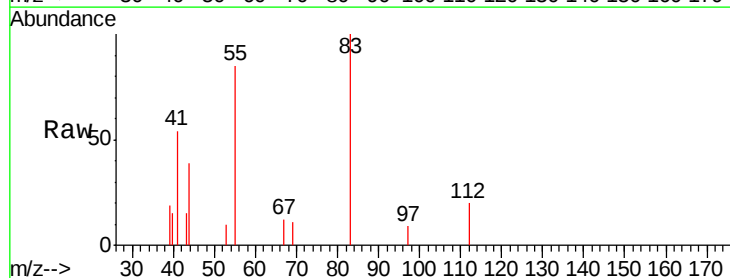
Tgt Ion: 83 Resp: 16245

Ion Ratio Lower Upper

83 100

85 0.0 52.2 78.4#

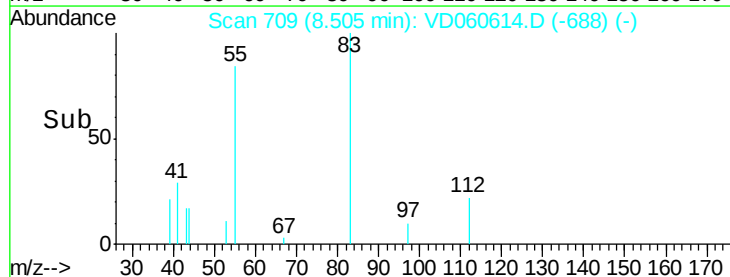
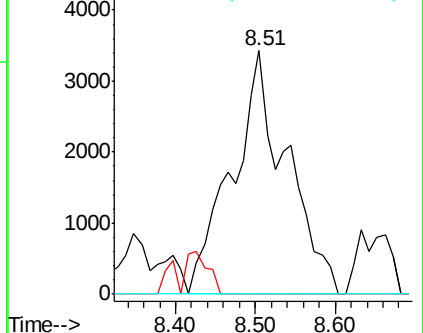
127 0.0 6.7 10.1#

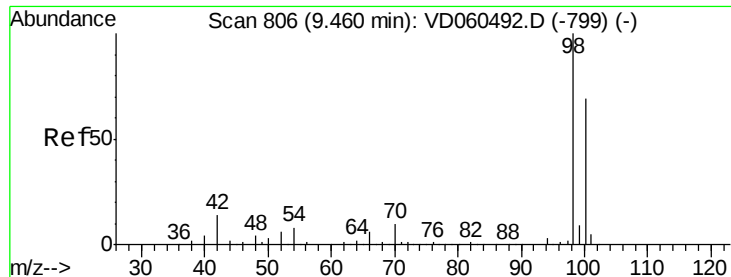


Abundance Ion 82.85 (82.55 to 83.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 126.80 (126.50 to 127.50): V

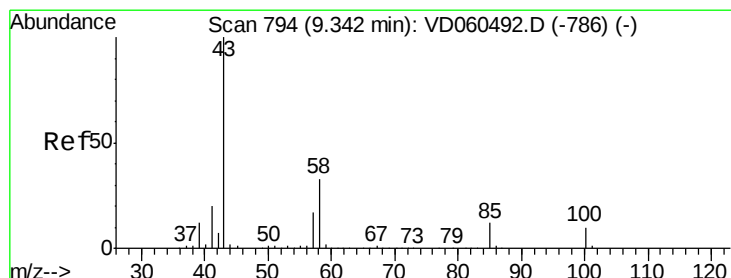
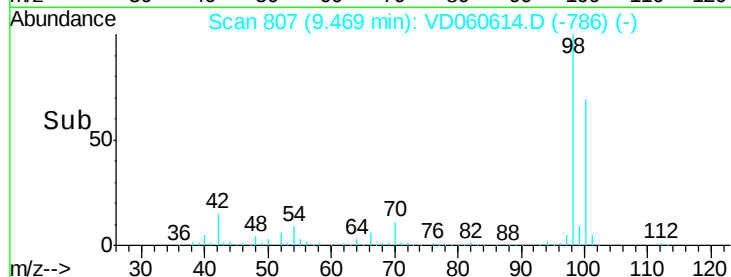
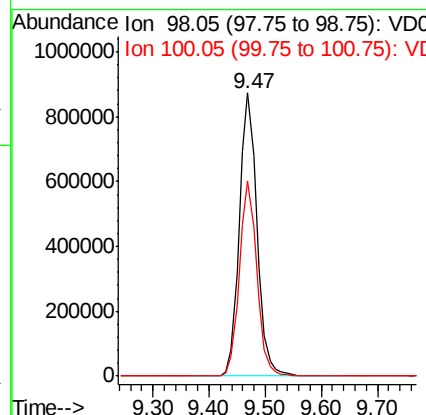
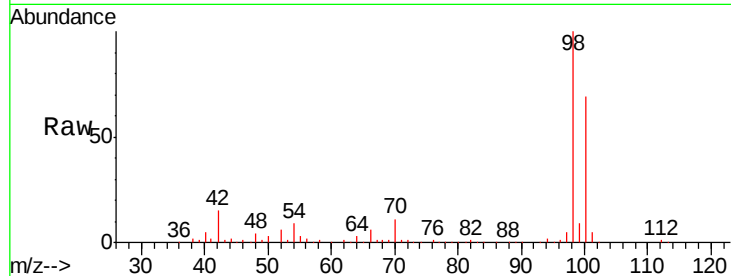




#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.47 min Scan# 807
Delta R.T. 0.01 min
Lab File: VD060614.D
Acq: 17 Dec 2018 22:10

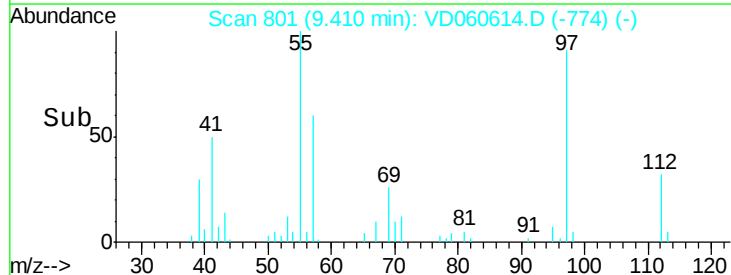
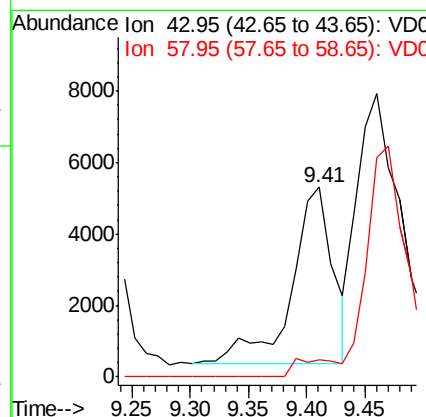
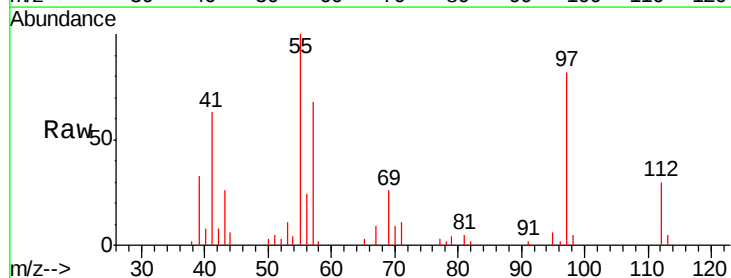
Instrument :
MSVOA_D
ClientSampleId :
065_SW-W-1

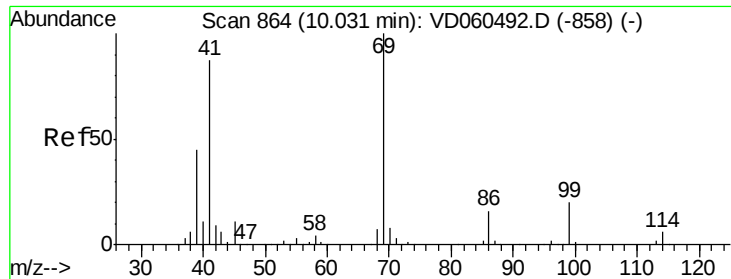
Tgt Ion: 98 Resp: 1905279
Ion Ratio Lower Upper
98 100
100 69.0 55.7 83.5



#51
4-Methyl-2-Pentanone
Concen: 2.028 ug/l
RT: 9.41 min Scan# 801
Delta R.T. 0.07 min
Lab File: VD060614.D
Acq: 17 Dec 2018 22:10

Tgt Ion: 43 Resp: 12220
Ion Ratio Lower Upper
43 100
58 8.8 26.3 39.5#





#56

Ethyl methacrylate

Concen: 1.778 ug/l

RT: 10.12 min Scan# 873

Delta R.T. 0.09 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

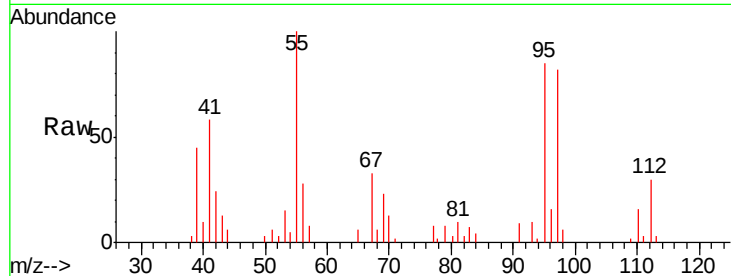
Tgt Ion: 69 Resp: 12952

Ion Ratio Lower Upper

69 100

41 250.6 69.8 104.8#

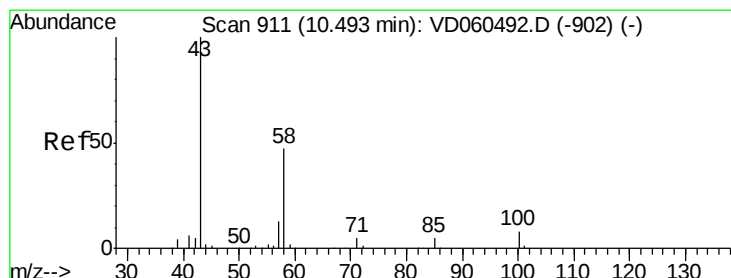
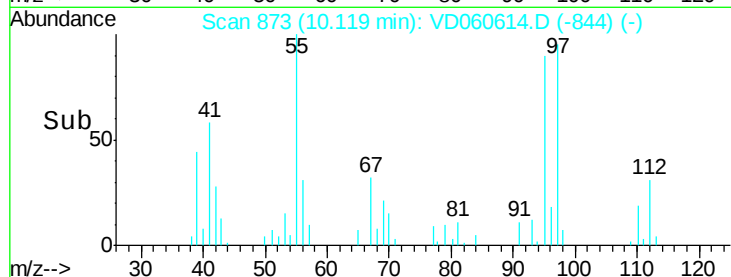
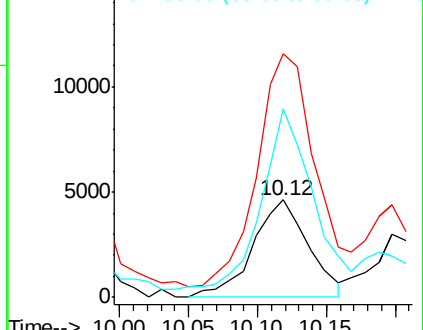
39 194.2 37.5 56.3#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#59

2-Hexanone

Concen: 15.420 ug/l

RT: 10.45 min Scan# 907

Delta R.T. -0.04 min

Lab File: VD060614.D

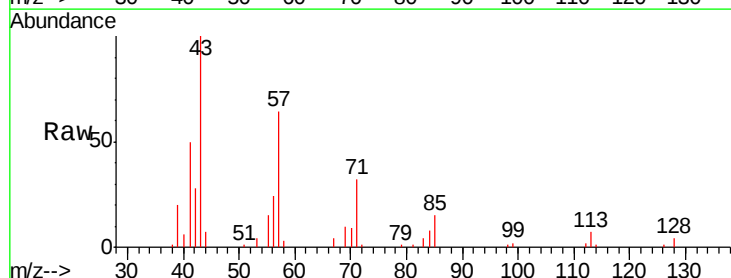
Acq: 17 Dec 2018 22:10

Tgt Ion: 43 Resp: 64959

Ion Ratio Lower Upper

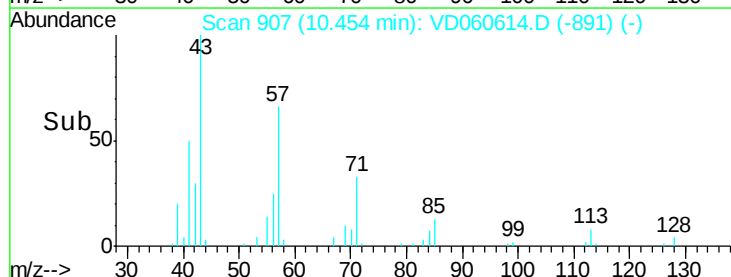
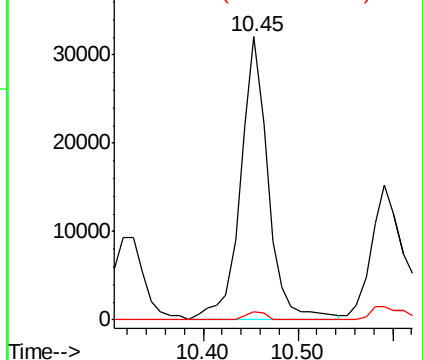
43 100

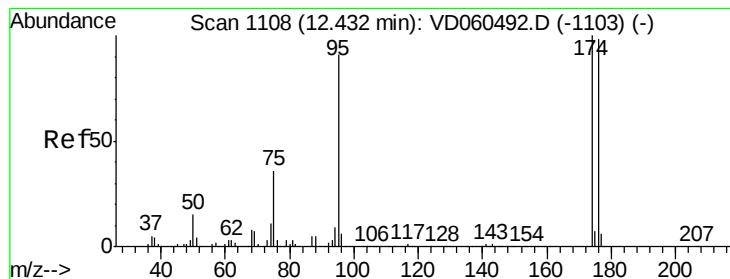
58 2.7 23.4 70.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

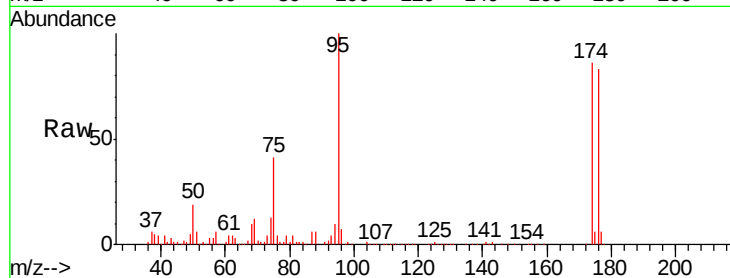
Tgt Ion: 95 Resp: 605249

Ion Ratio Lower Upper

95 100

174 86.5 0.0 219.4

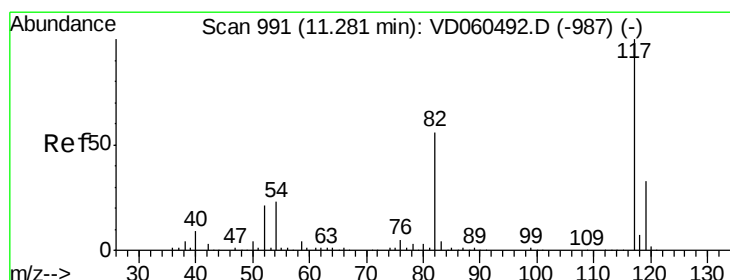
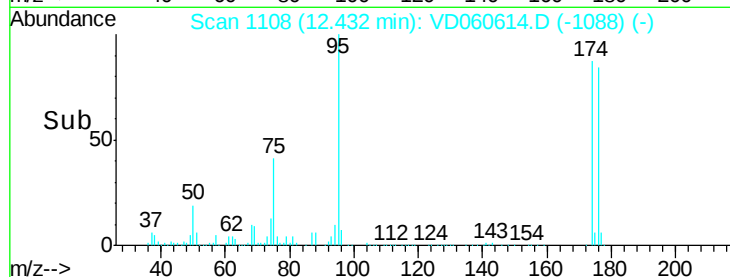
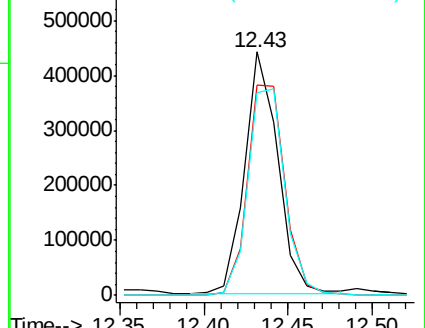
176 83.4 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.29 min Scan# 992

Delta R.T. 0.01 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

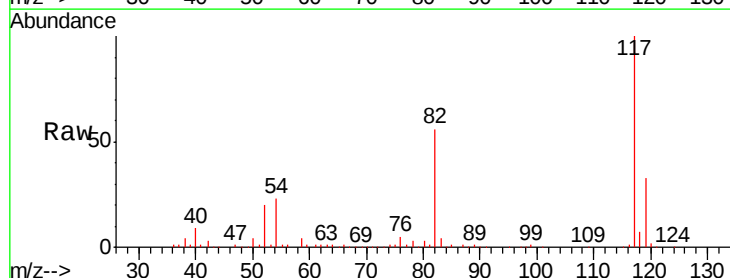
Tgt Ion: 117 Resp: 1434923

Ion Ratio Lower Upper

117 100

82 55.9 45.2 67.8

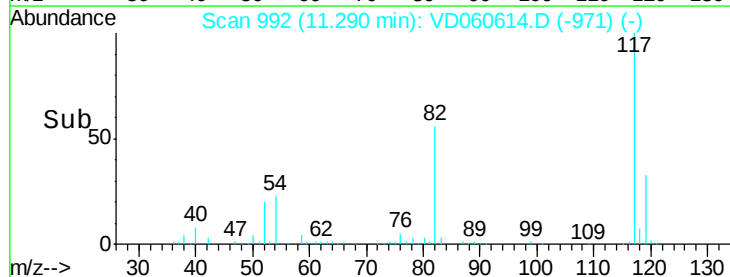
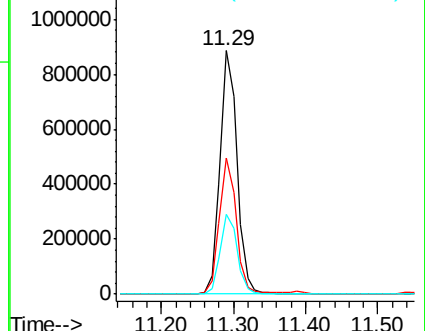
119 32.7 26.1 39.1

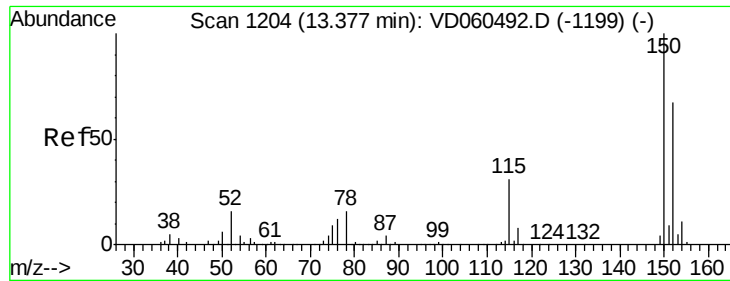


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

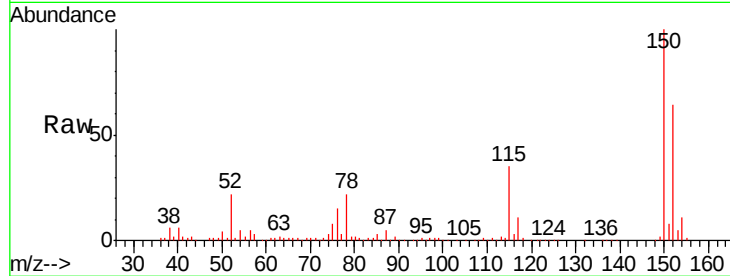
Tgt Ion:152 Resp: 574750

Ion Ratio Lower Upper

152 100

115 54.4 24.6 74.0

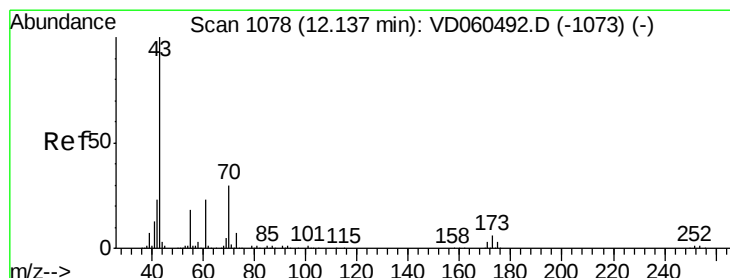
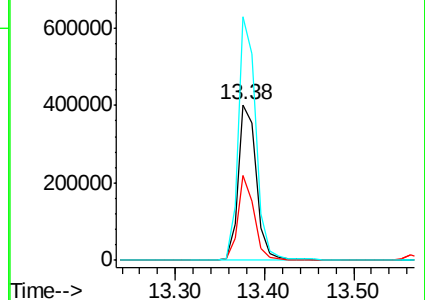
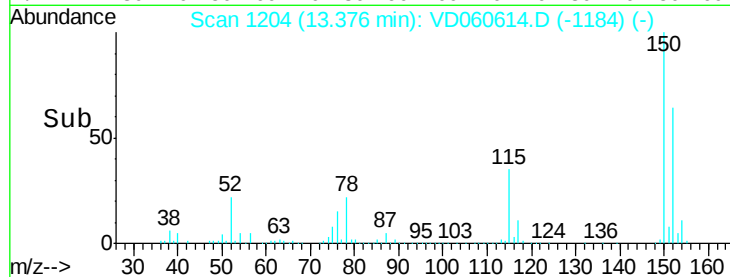
150 156.4 0.0 309.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.938 ug/l

RT: 12.10 min Scan# 1074

Delta R.T. -0.04 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Tgt Ion: 43 Resp: 38710

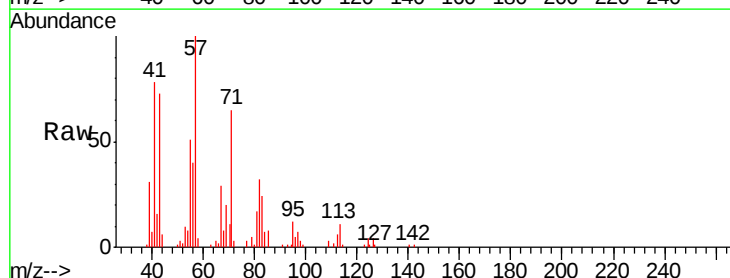
Ion Ratio Lower Upper

43 100

70 14.9 23.8 35.8#

55 69.3 14.2 21.2#

61 0.0 18.1 27.1#

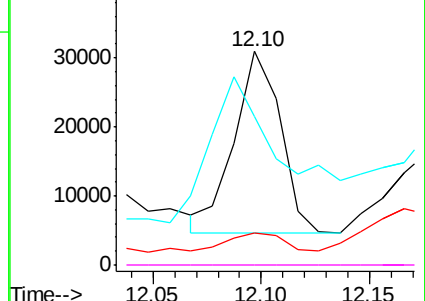
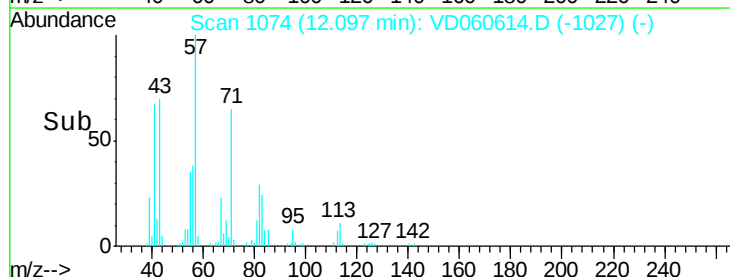


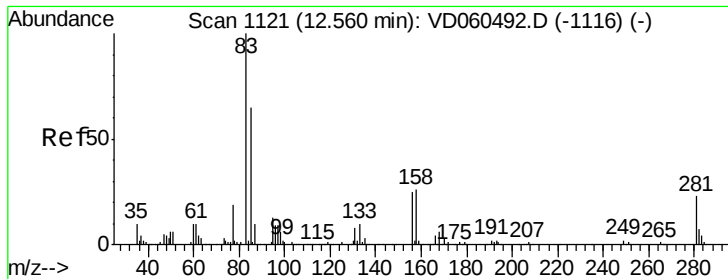
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.147 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. -0.12 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

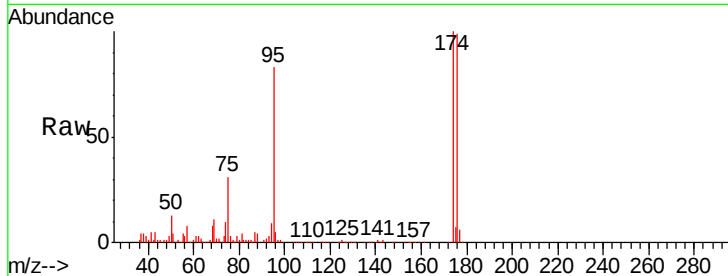
Tgt Ion: 83 Resp: 7467

Ion Ratio Lower Upper

83 100

131 10.4 3.8 11.4

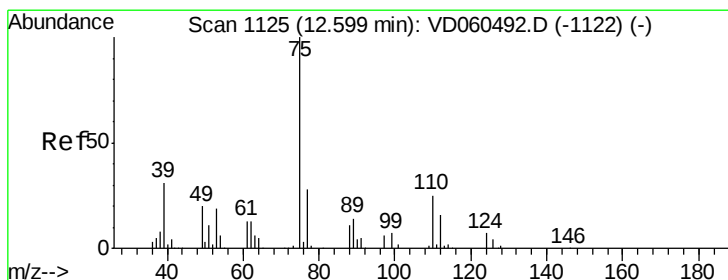
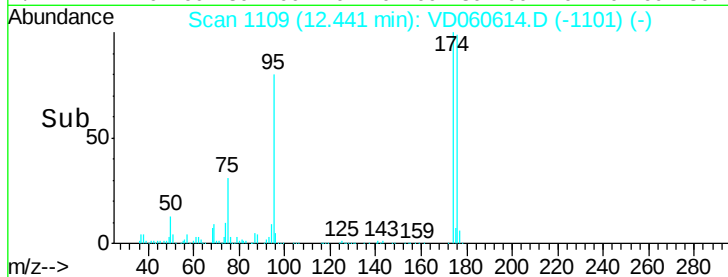
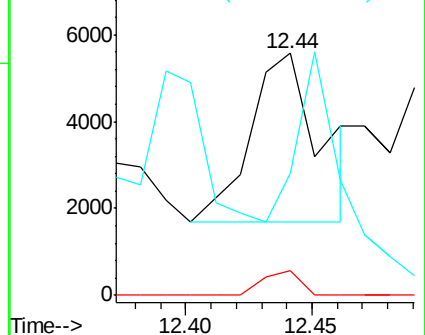
85 50.7 32.3 96.9



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 30.470 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.17 min

Lab File: VD060614.D

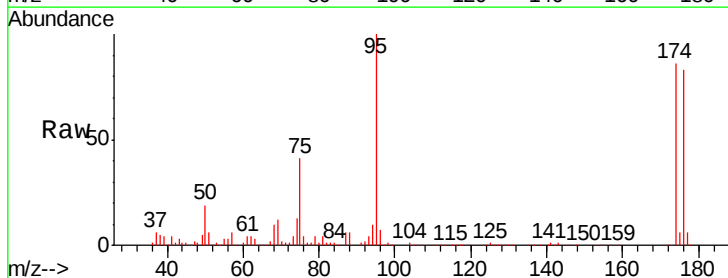
Acq: 17 Dec 2018 22:10

Tgt Ion: 75 Resp: 198429

Ion Ratio Lower Upper

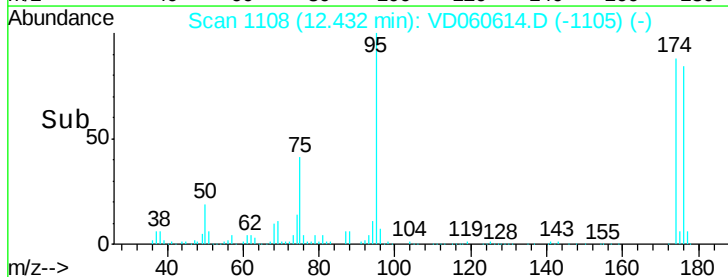
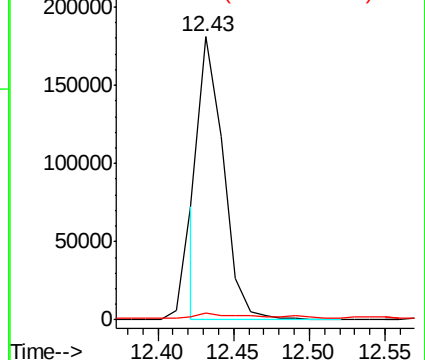
75 100

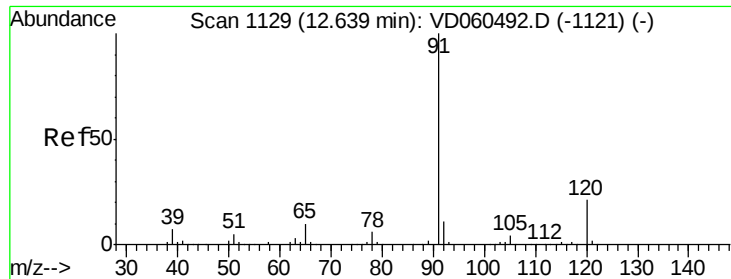
77 2.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

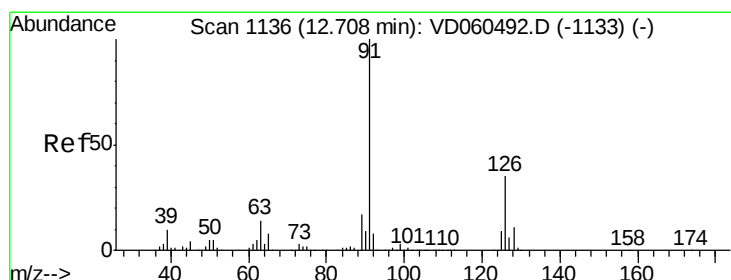
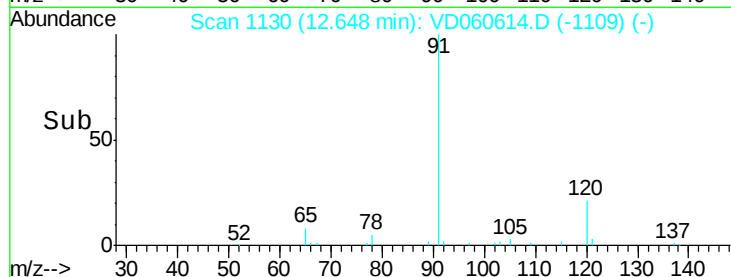
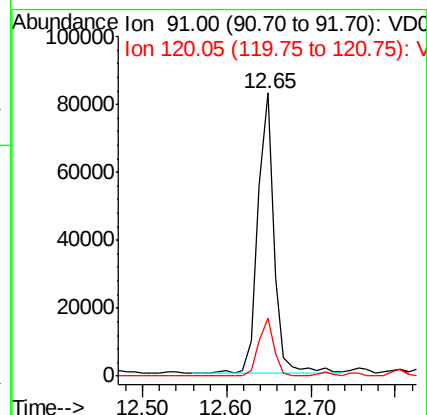
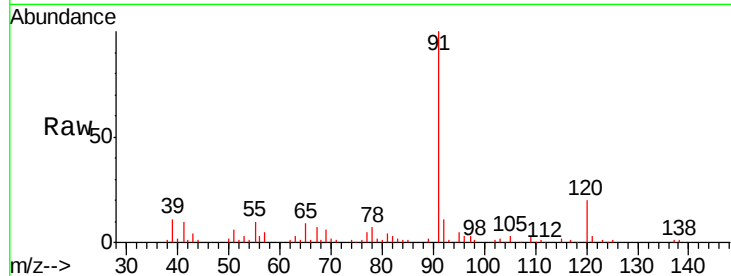




#78
n-propylbenzene
Concen: 2.197 ug/l
RT: 12.65 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VD060614.D
Acq: 17 Dec 2018 22:10

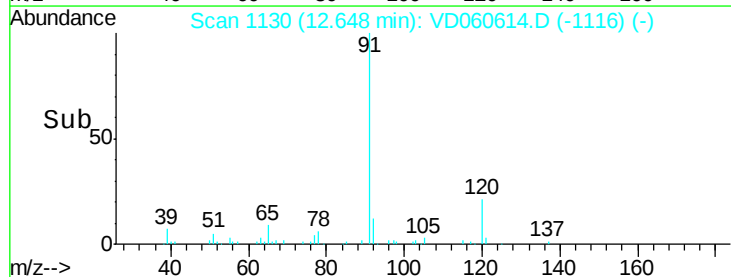
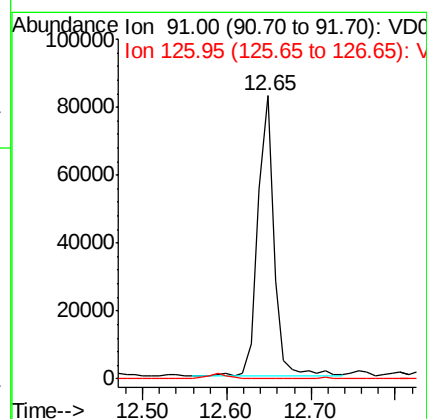
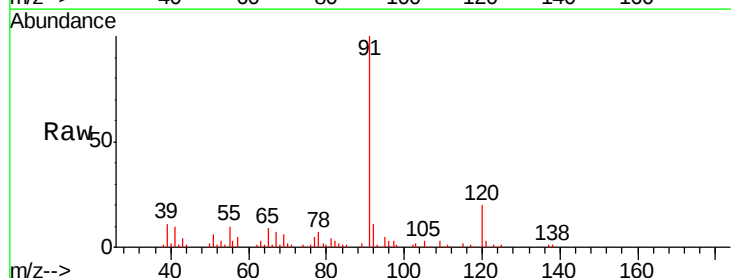
Instrument :
MSVOA_D
ClientSampleId :
065_SW-W-1

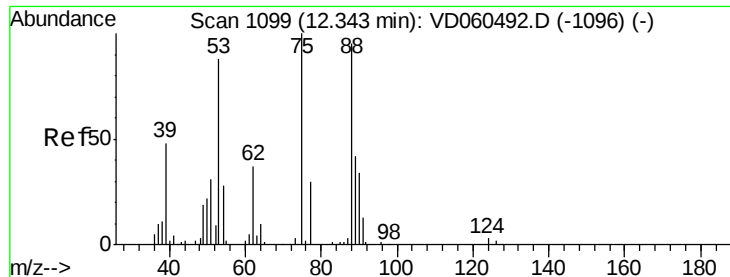
Tgt Ion: 91 Resp: 112931
Ion Ratio Lower Upper
91 100
120 20.4 10.4 31.1



#79
2-Chlorotoluene
Concen: 4.048 ug/l
RT: 12.65 min Scan# 1130
Delta R.T. -0.06 min
Lab File: VD060614.D
Acq: 17 Dec 2018 22:10

Tgt Ion: 91 Resp: 112931
Ion Ratio Lower Upper
91 100
126 0.0 17.3 52.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 134.499 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

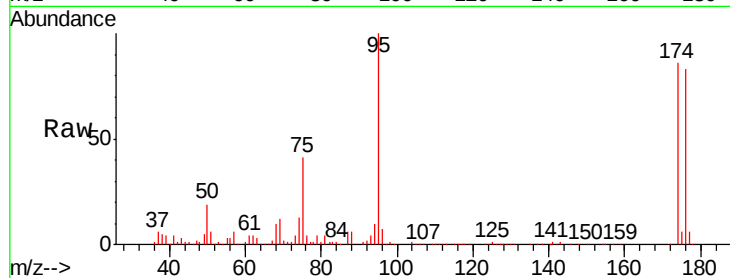
Tgt Ion: 75 Resp: 244291

Ion Ratio Lower Upper

75 100

53 1.3 70.5 105.7#

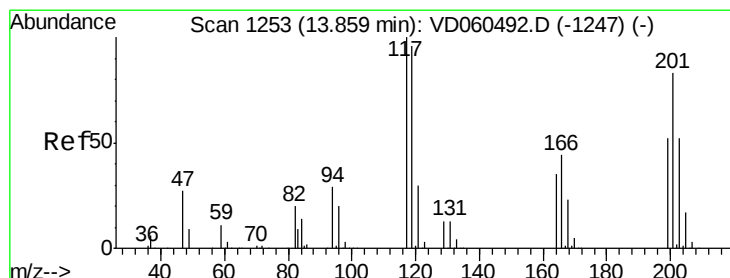
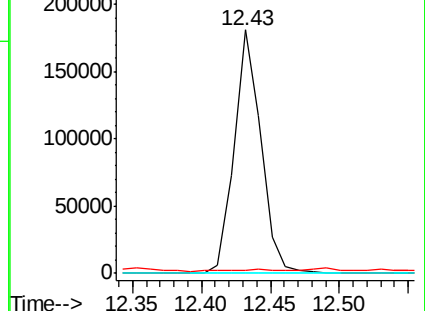
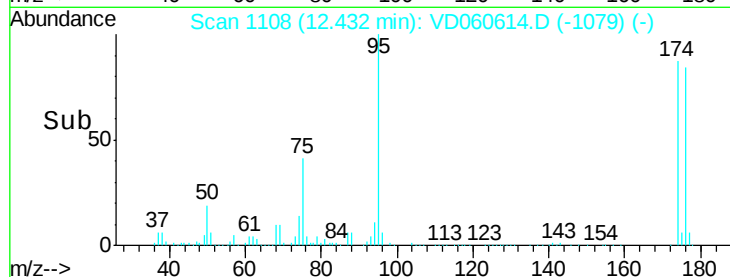
89 0.0 33.6 50.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#90

Hexachloroethane

Concen: 2.423 ug/l

RT: 13.91 min Scan# 1258

Delta R.T. 0.05 min

Lab File: VD060614.D

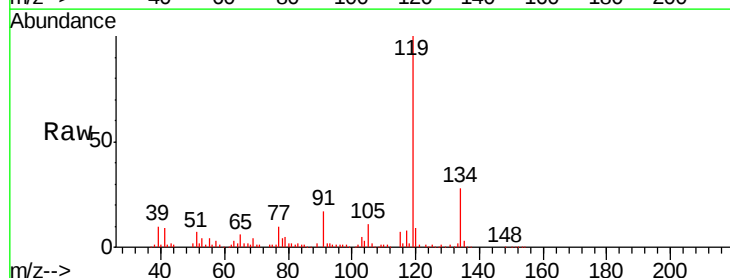
Acq: 17 Dec 2018 22:10

Tgt Ion: 117 Resp: 20918

Ion Ratio Lower Upper

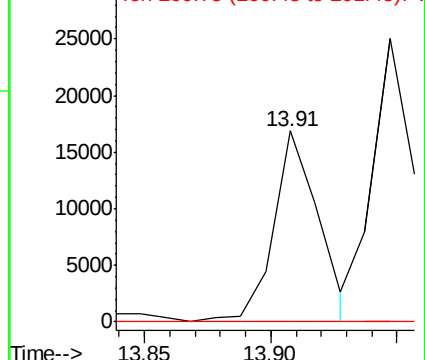
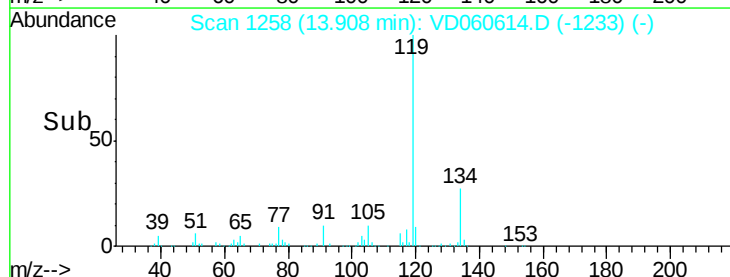
117 100

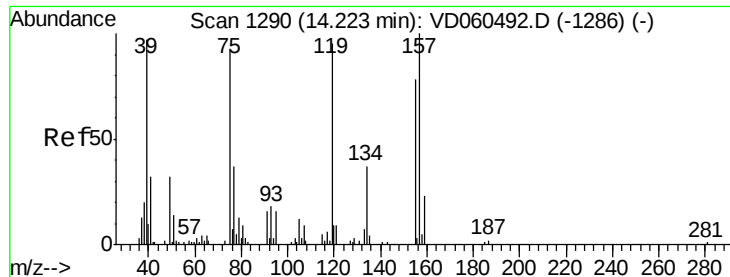
201 0.0 41.3 123.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.155 ug/l

RT: 14.19 min Scan# 1287

Delta R.T. -0.03 min

Lab File: VD060614.D

Acq: 17 Dec 2018 22:10

Instrument :

MSVOA_D

ClientSampleId :

065_SW-W-1

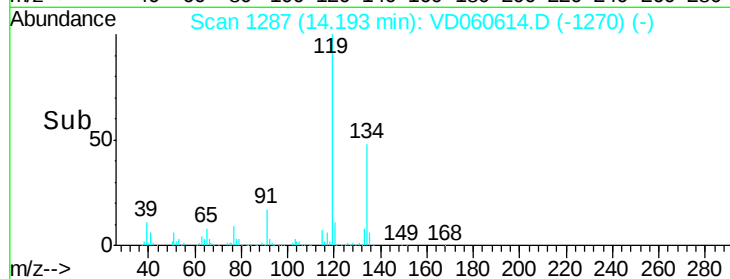
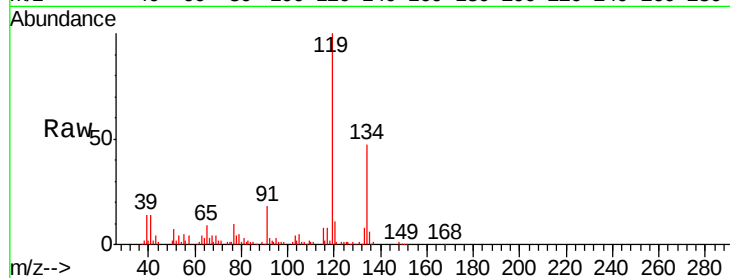
Tgt Ion: 75 Resp: 911

Ion Ratio Lower Upper

75 100

155 0.0 41.6 124.9#

157 0.0 53.6 160.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

