

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032919\
 Data File : VD061427.D
 Acq On : 29 Mar 2019 14:05
 Operator : VA/AP
 Sample : K2107-09
 Misc : 5.23g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 29 22:37:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	9443	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	26865	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	29898	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	16188	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	9461	117.29	ug/l	0.02
Spiked Amount 50.000			Recovery	=	234.58%	
35) Dibromofluoromethane	6.93	113	10875	52.97	ug/l	0.03
Spiked Amount 50.000			Recovery	=	105.94%	
50) Toluene-d8	10.41	98	23678	48.09	ug/l	0.03
Spiked Amount 50.000			Recovery	=	96.18%	
62) 4-Bromofluorobenzene	13.55	95	13896	73.59	ug/l	0.01
Spiked Amount 50.000			Recovery	=	147.18%	

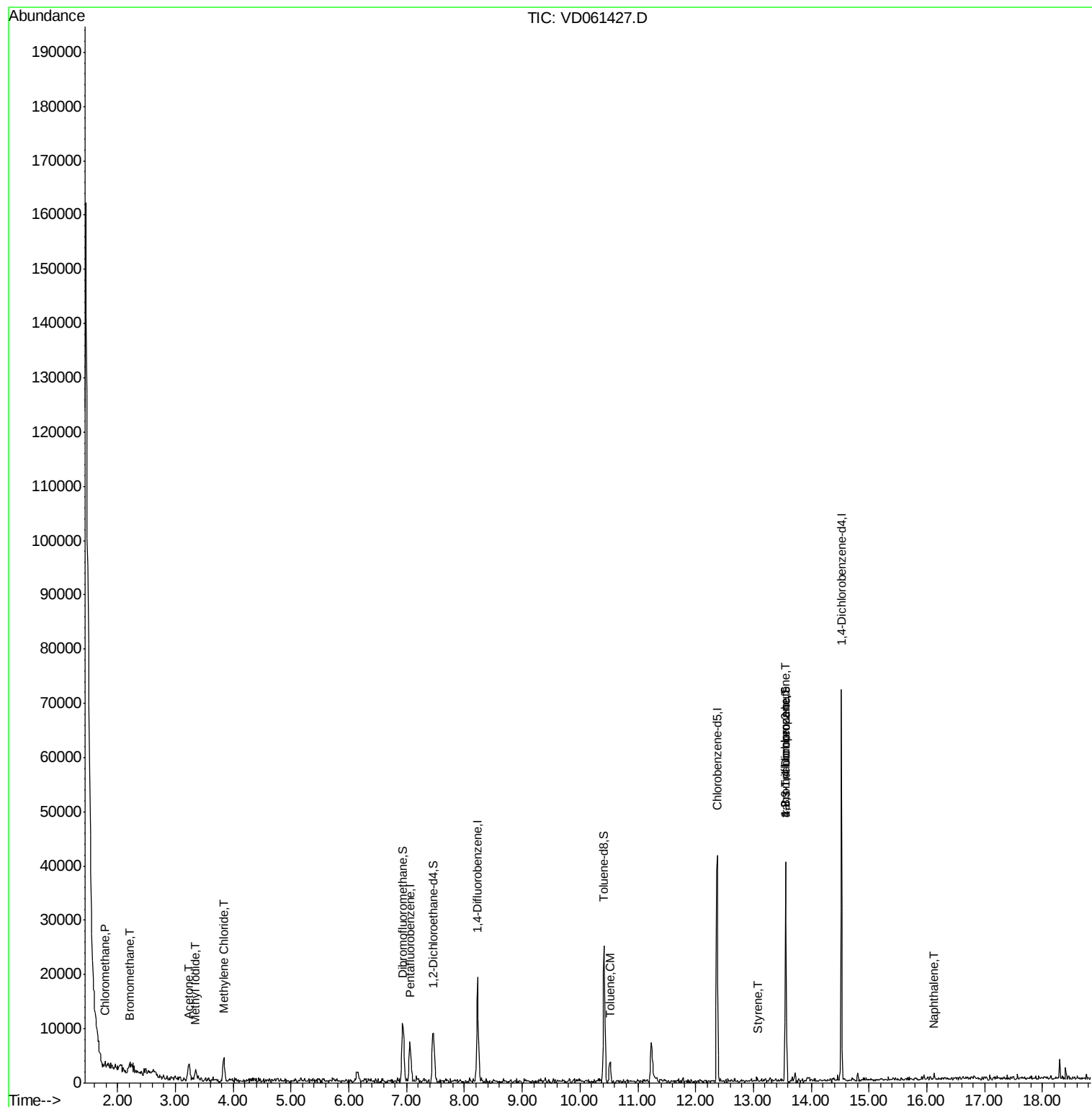
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	604	7.344	ug/l #	42
5) Bromomethane	2.19	94	1156	77.197	ug/l #	46
10) Methyl Iodide	3.35	142	3842	23.389	ug/l #	86
16) Acetone	3.23	43	5264	253.852	ug/l #	82
20) Methylene Chloride	3.84	84	3028	25.111	ug/l #	91
52) Toluene	10.51	92	2375	6.616	ug/l	94
70) Styrene	13.07	104	608	1.017	ug/l #	33
76) 1,2,3-Trichloropropane	13.55	75	3966	16.960	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.55	75	4766	66.846	ug/l #	18
95) Naphthalene	16.12	128	962	2.986	ug/l #	70

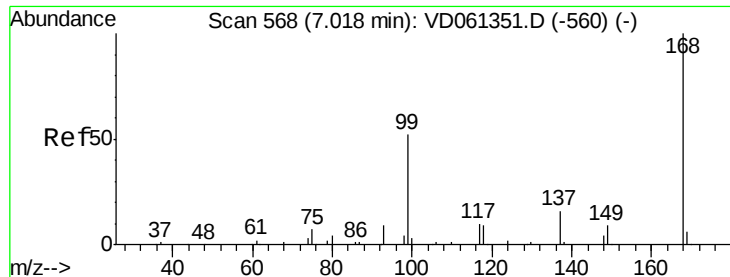
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 29 22:37:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.04 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

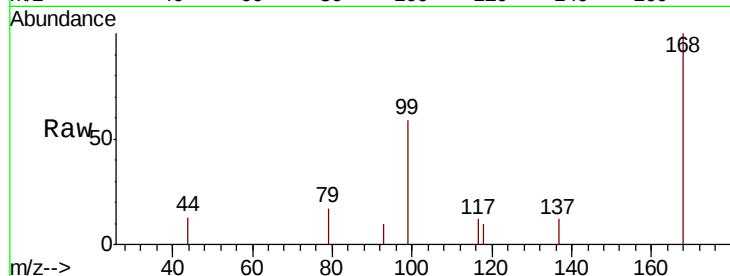
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 9443

Ion Ratio Lower Upper

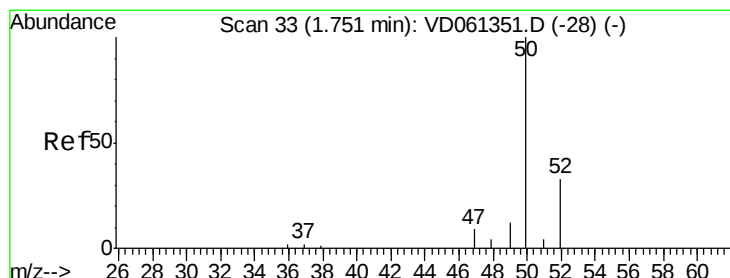
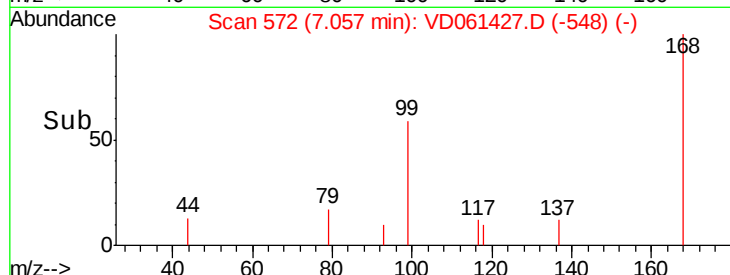
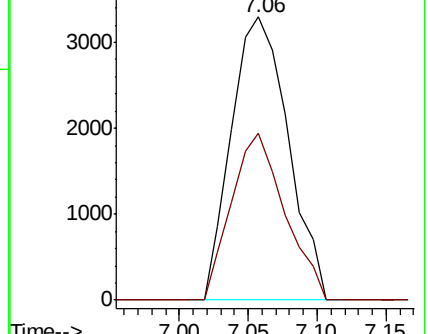
168 100

99 59.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 7.344 ug/l

RT: 1.78 min Scan# 36

Delta R.T. 0.03 min

Lab File: VD061427.D

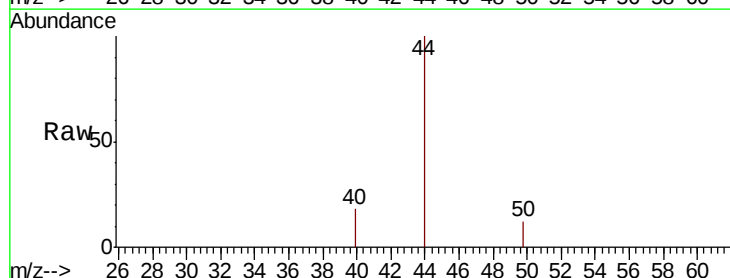
Acq: 29 Mar 2019 14:05

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

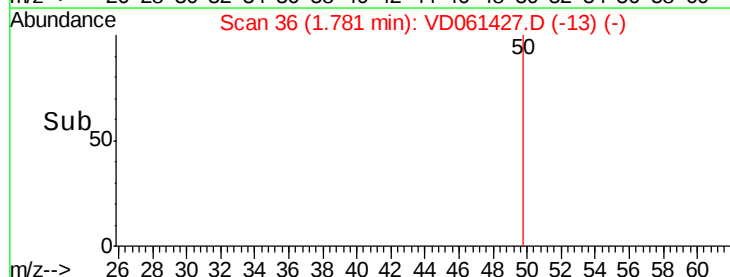
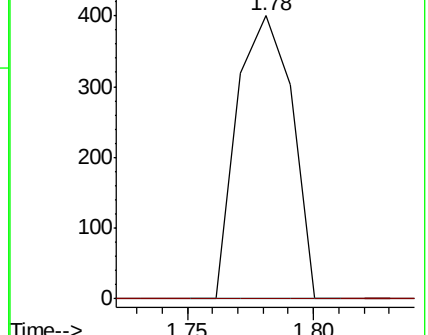
50 100

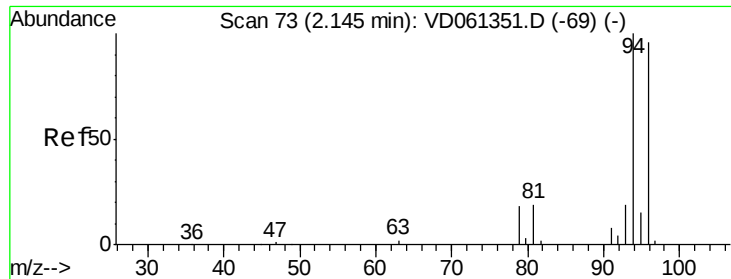
52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 77.197 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.05 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

Instrument :

MSVOA_D

ClientSampleId :

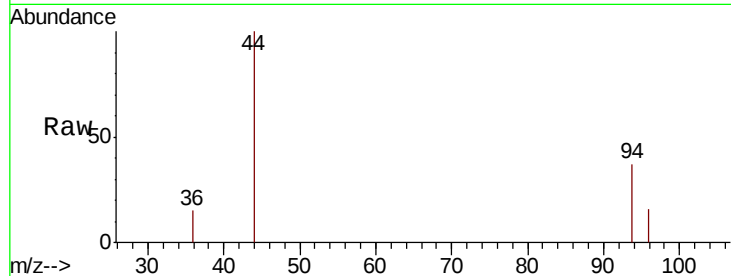
Tot Ion: 94 Resp: 1156

Ion Ratio Lower Upper

94 100

96 42.2 78.3 117.5#

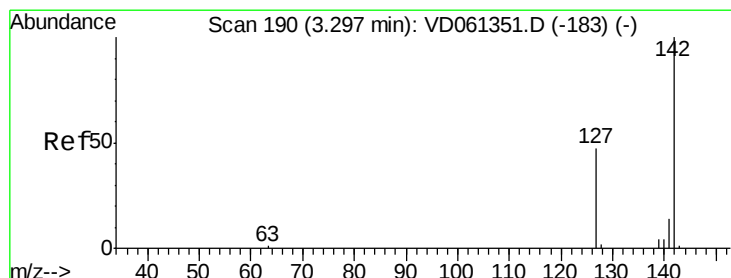
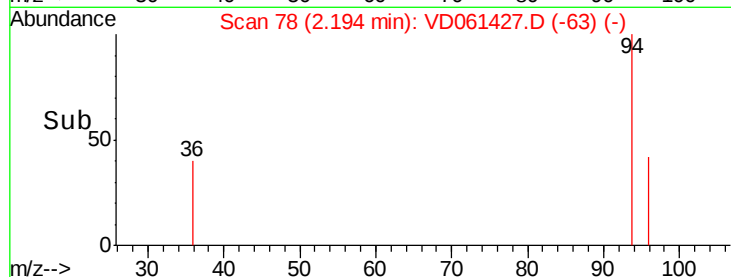
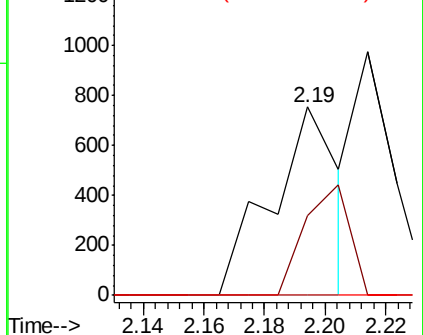
93 0.0 15.6 23.4#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#10

Methyl Iodide

Concen: 23.389 ug/l

RT: 3.35 min Scan# 195

Delta R.T. 0.05 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

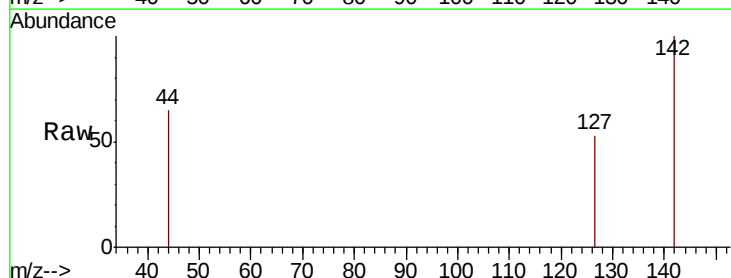
Tgt Ion: 142 Resp: 3842

Ion Ratio Lower Upper

142 100

127 52.6 37.7 56.5

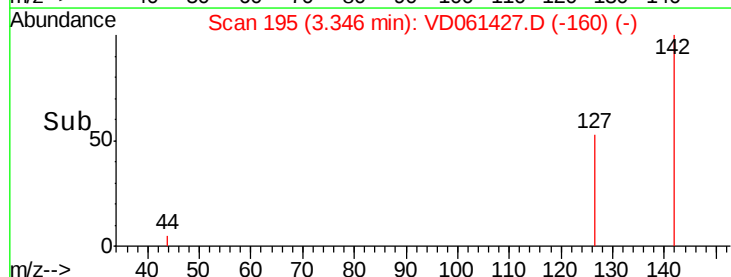
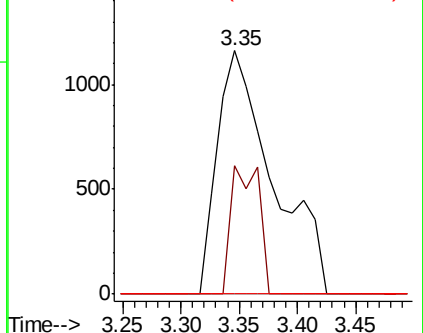
141 0.0 11.5 17.3#

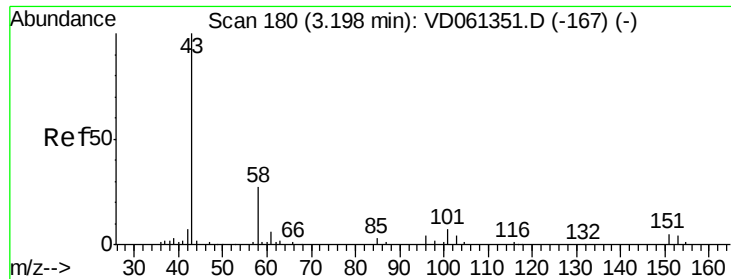


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 253.852 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

Instrument :

MSVOA_D

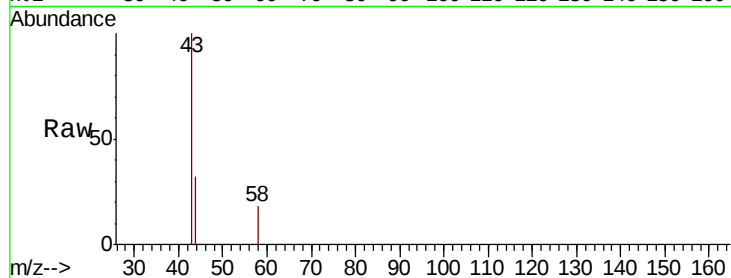
ClientSampleId :

Tot Ion: 43 Resp: 5264

Ion Ratio Lower Upper

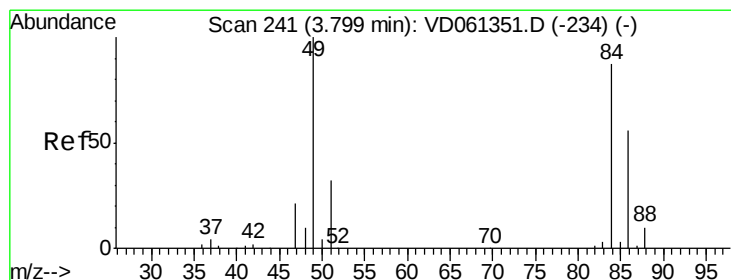
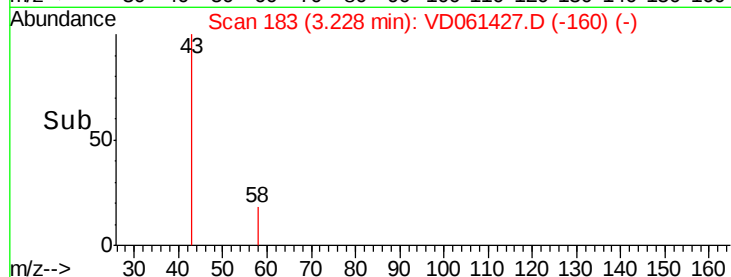
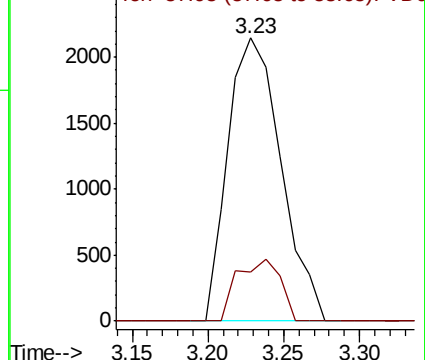
43 100

58 17.6 21.5 32.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 25.111 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.04 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

Tgt Ion: 84 Resp: 3028

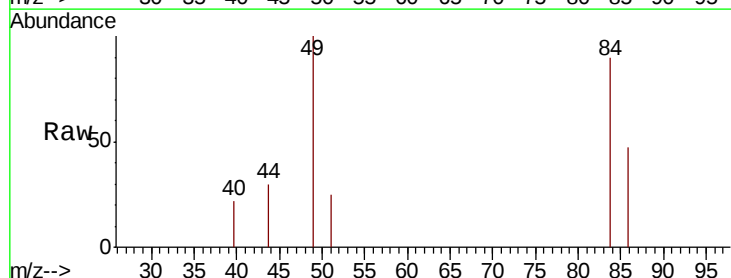
Ion Ratio Lower Upper

84 100

49 111.4 91.8 137.8

51 27.4 29.8 44.8#

86 52.3 51.8 77.6

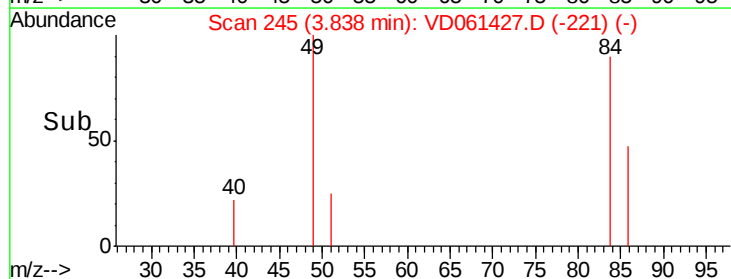
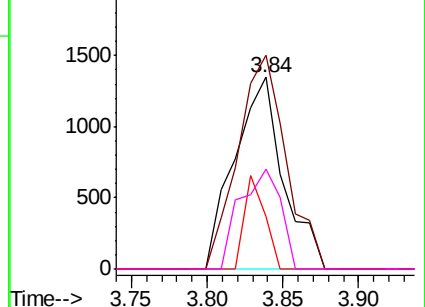


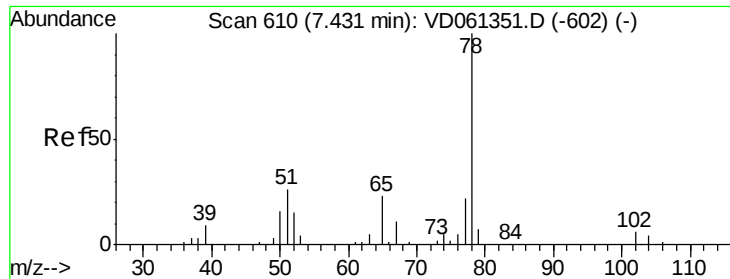
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.02 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

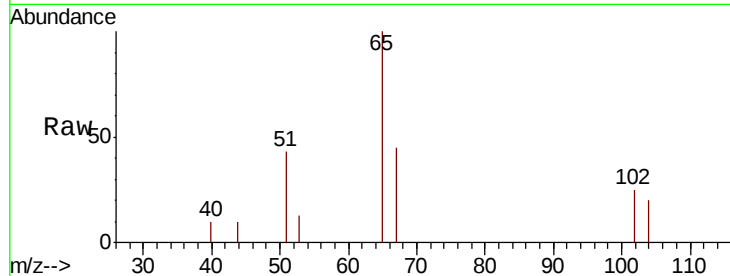
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 9461

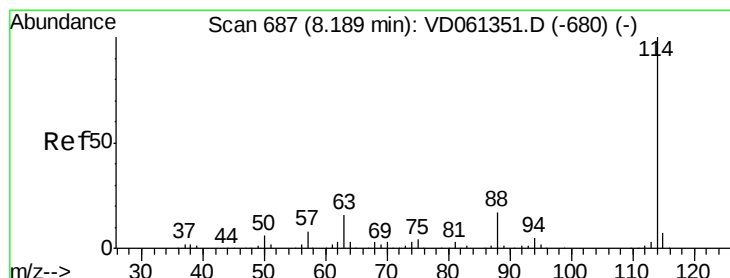
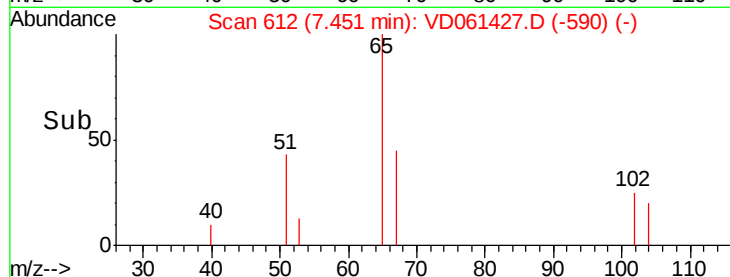
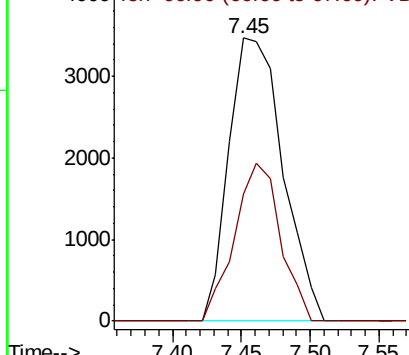
Ion Ratio Lower Upper

65 100

67 44.8 0.0 99.8



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: 8.23 min Scan# 691

Delta R.T. 0.04 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

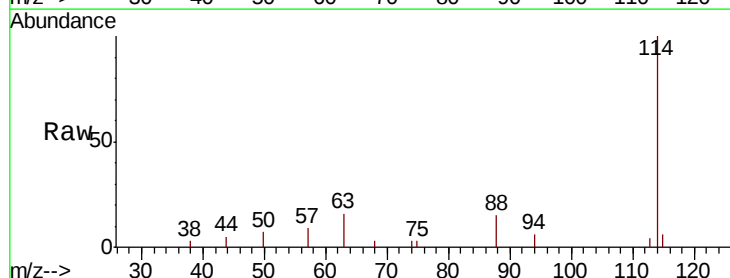
Tgt Ion: 114 Resp: 26865

Ion Ratio Lower Upper

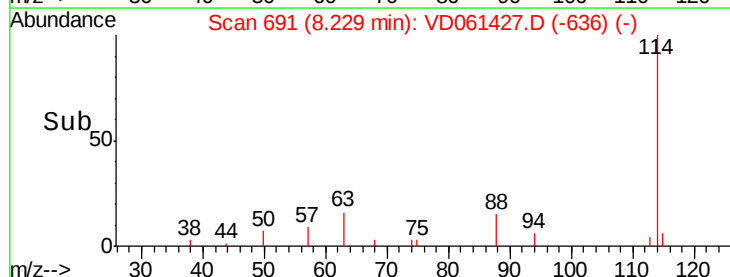
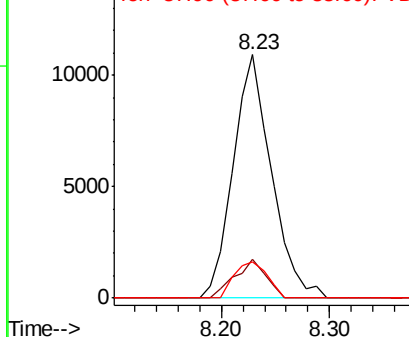
114 100

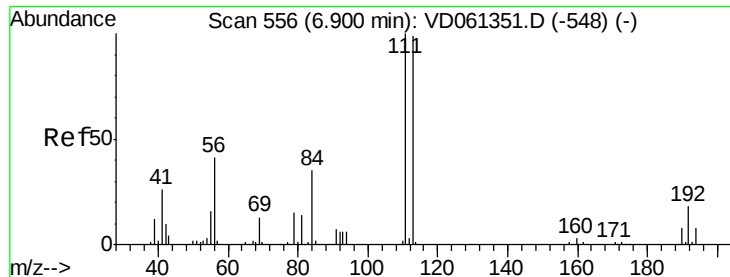
63 16.1 0.0 31.6

88 14.7 0.0 33.4



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

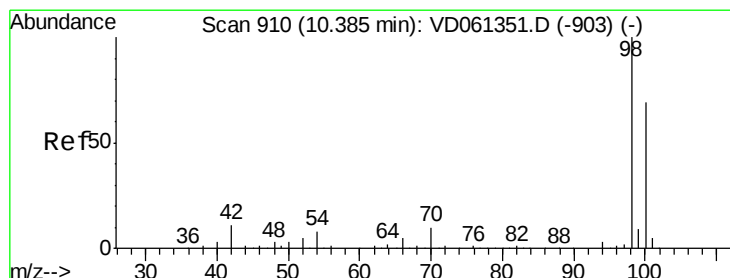
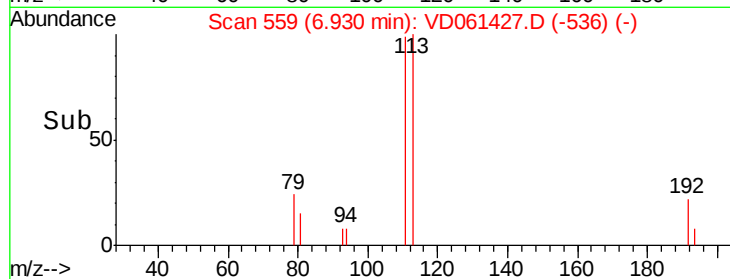
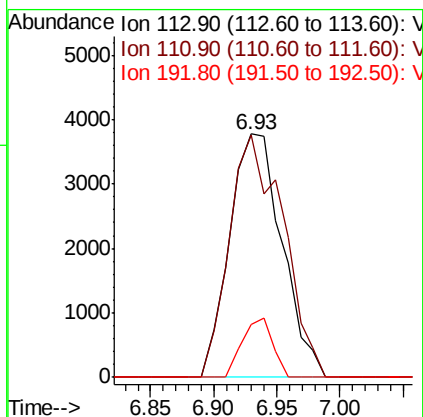
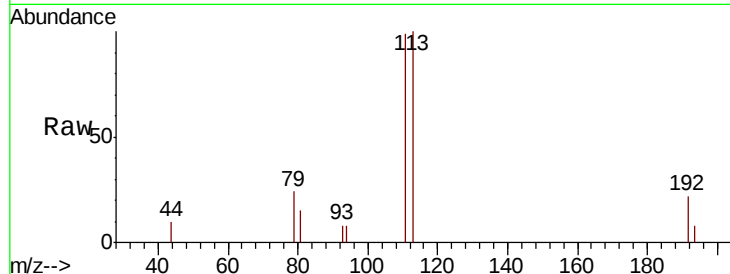




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.93 min Scan# 559
Delta R.T. 0.03 min
Lab File: VD061427.D
Acq: 29 Mar 2019 14:05

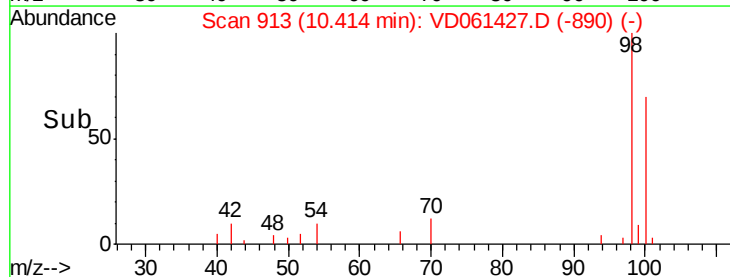
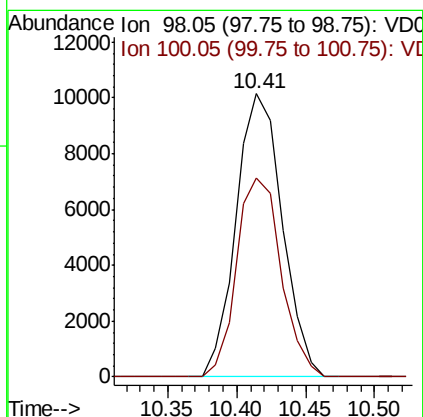
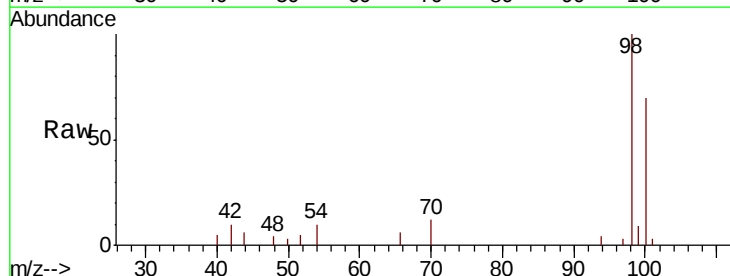
Instrument :
MSVOA_D
ClientSampleId :

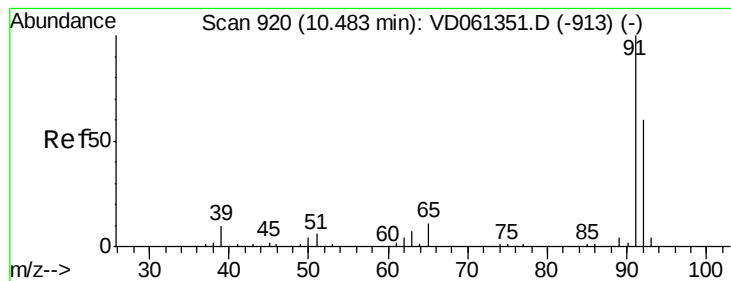
Tot Ion:113 Resp: 10875
Ion Ratio Lower Upper
113 100
111 99.4 81.0 121.6
192 22.0 14.4 21.6#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.03 min
Lab File: VD061427.D
Acq: 29 Mar 2019 14:05

Tgt Ion: 98 Resp: 23678
Ion Ratio Lower Upper
98 100
100 70.1 56.2 84.2





#52

Toluene

Concen: 6.616 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.03 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

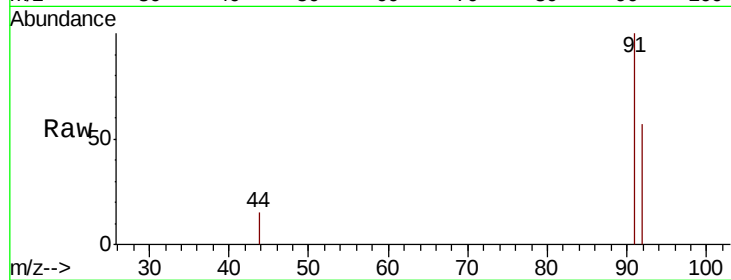
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 2375

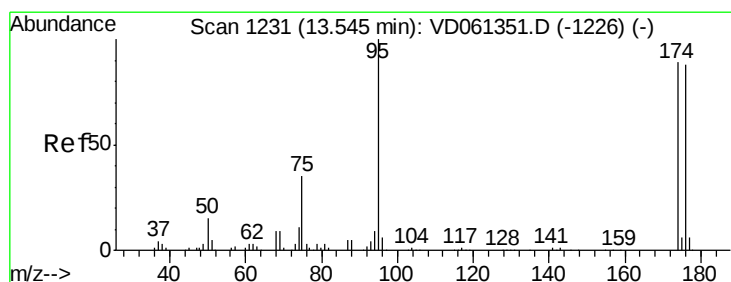
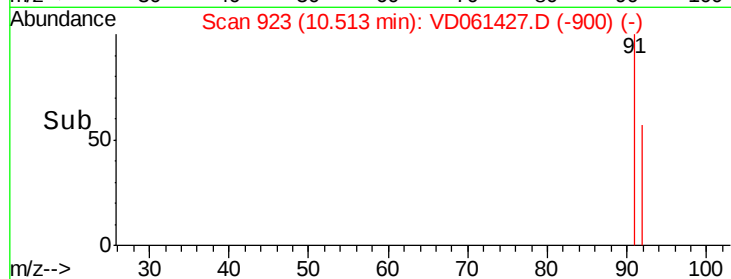
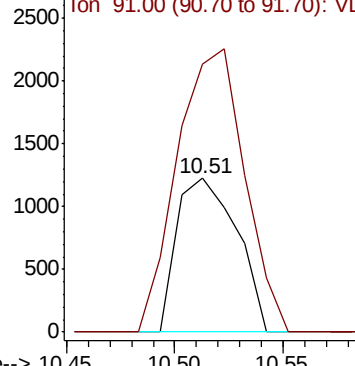
Ion Ratio Lower Upper

92 100

91 174.3 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

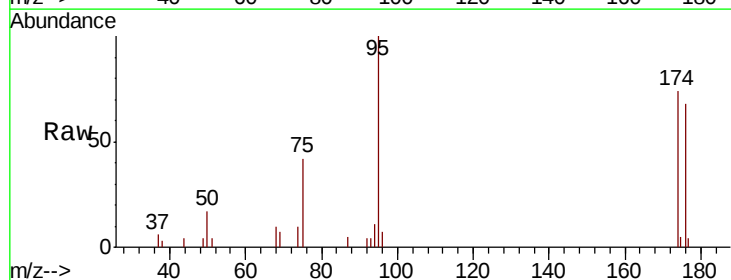
Tgt Ion: 95 Resp: 13896

Ion Ratio Lower Upper

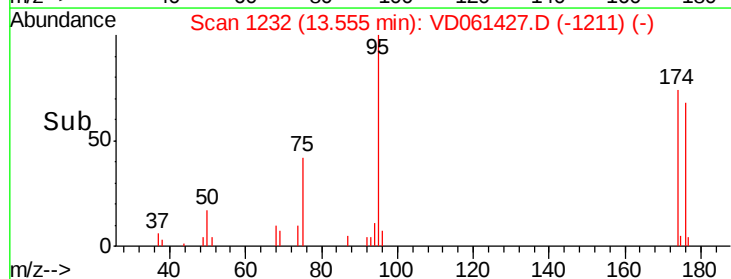
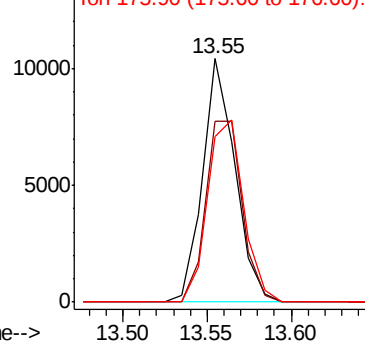
95 100

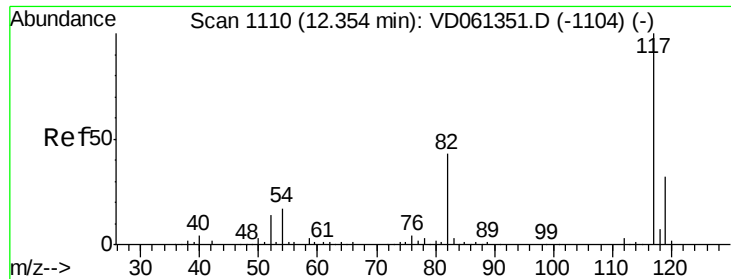
174 74.2 0.0 178.0

176 68.0 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VDC
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: 12.37 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

Instrument :

MSVOA_D

ClientSampleId :

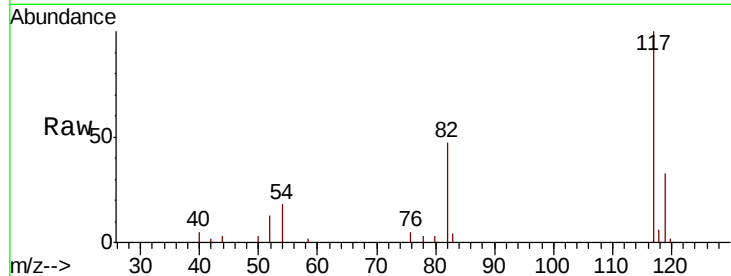
Tot Ion:117 Resp: 29898

Ion Ratio Lower Upper

117 100

82 47.5 34.4 51.6

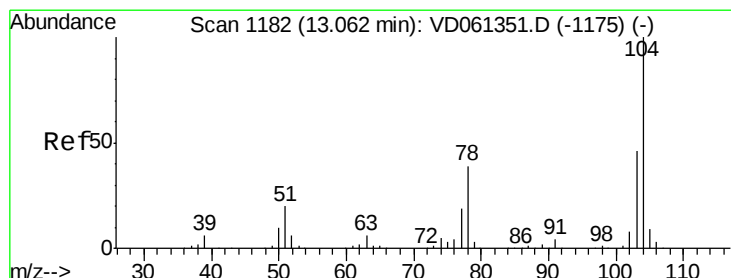
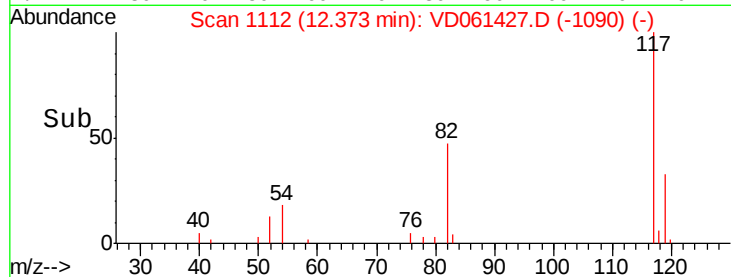
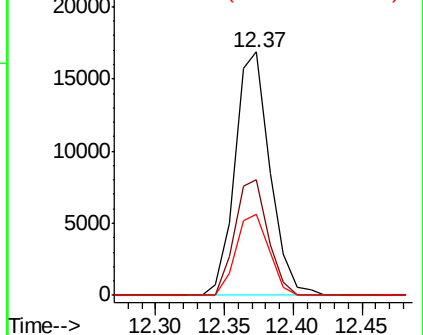
119 33.5 25.8 38.6



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



#70

Styrene

Concen: 1.017 ug/l

RT: 13.07 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

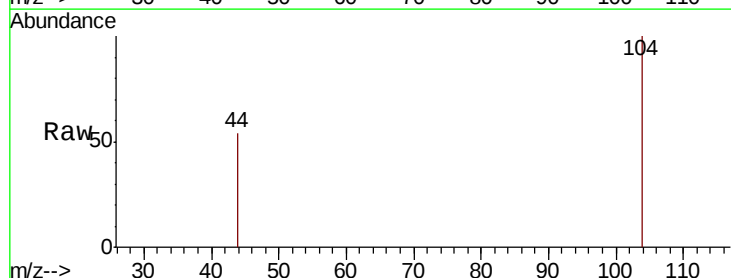
Tgt Ion:104 Resp: 608

Ion Ratio Lower Upper

104 100

78 0.0 31.0 46.6#

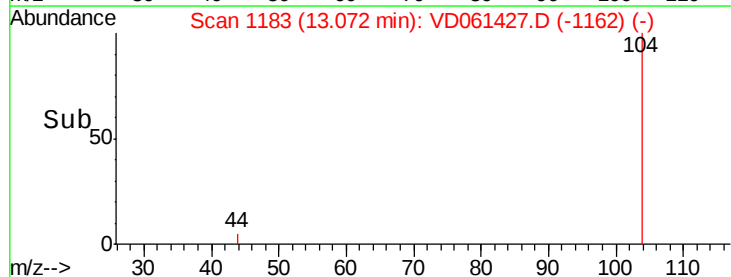
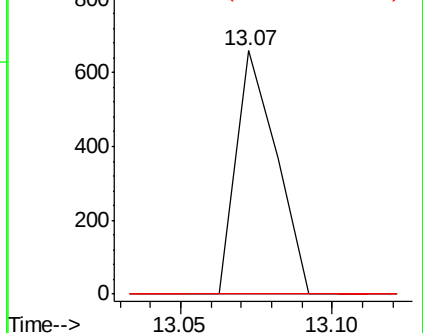
103 0.0 37.0 55.4#

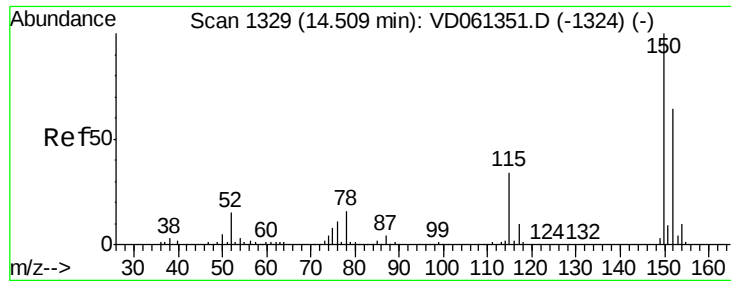


Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

Ion 103.05 (102.75 to 103.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD061427.D

Acq: 29 Mar 2019 14:05

Instrument :

MSVOA_D

ClientSampleId :

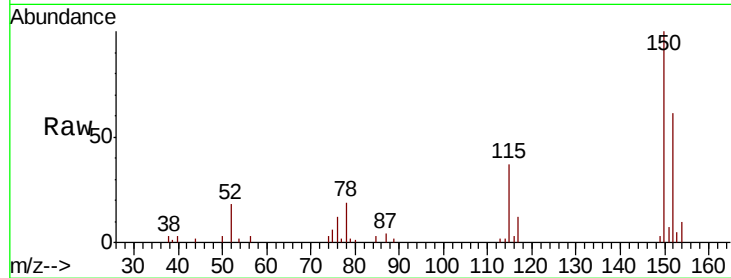
Tot Ion:152 Resp: 16188

Ion Ratio Lower Upper

152 100

115 60.6 26.9 80.6

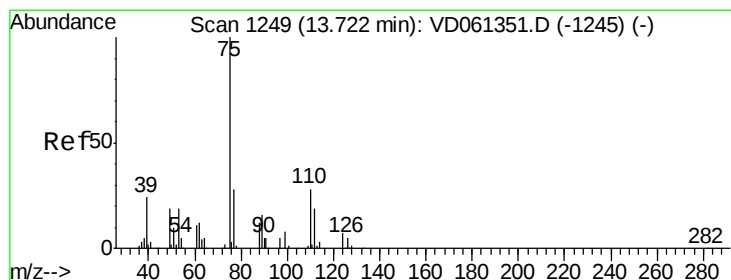
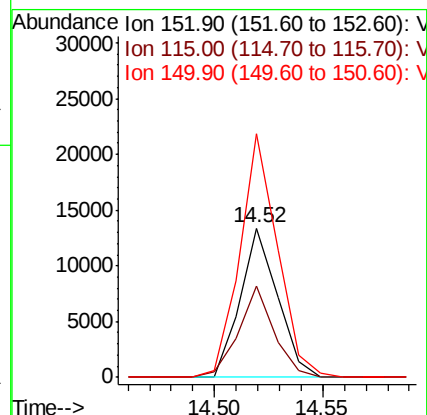
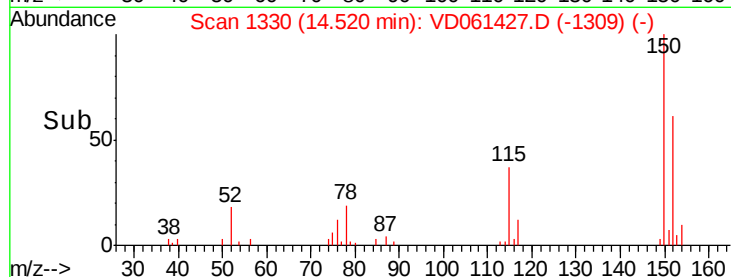
150 162.8 0.0 318.0



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



#76

1,2,3-Trichloropropane

Concen: 16.960 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061427.D

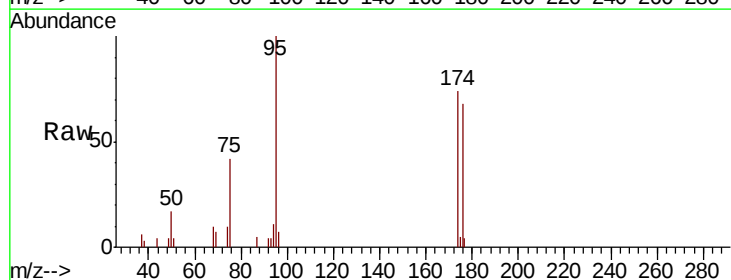
Acq: 29 Mar 2019 14:05

Tgt Ion: 75 Resp: 3966

Ion Ratio Lower Upper

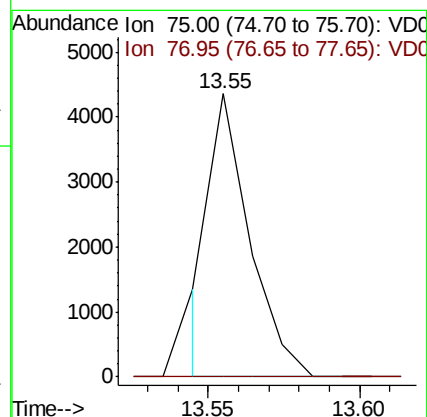
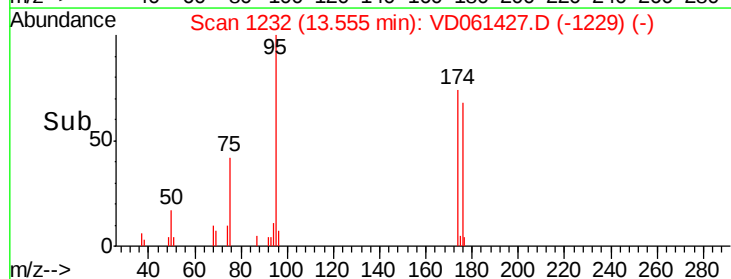
75 100

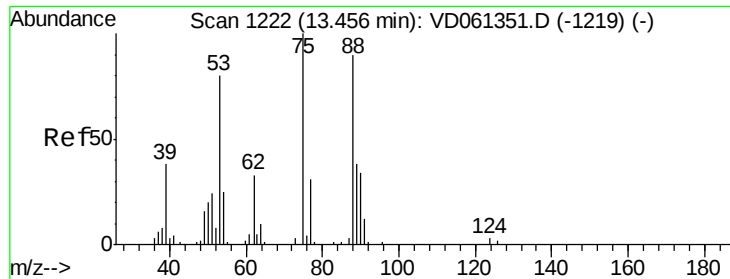
77 0.0 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

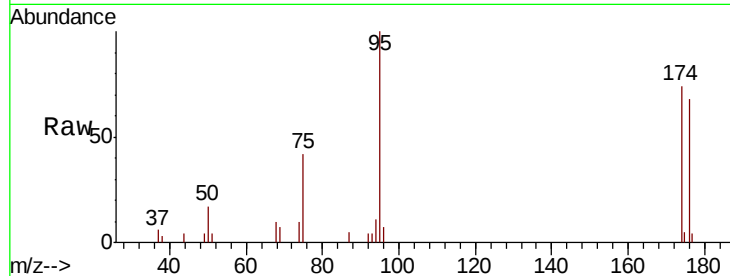




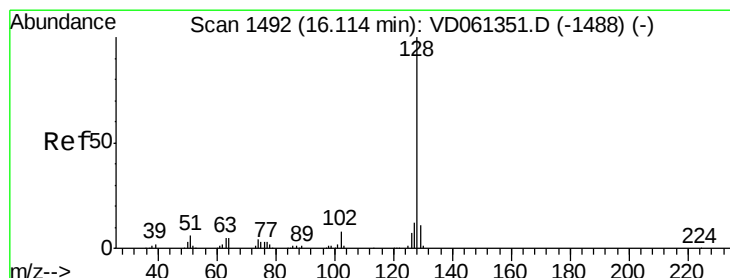
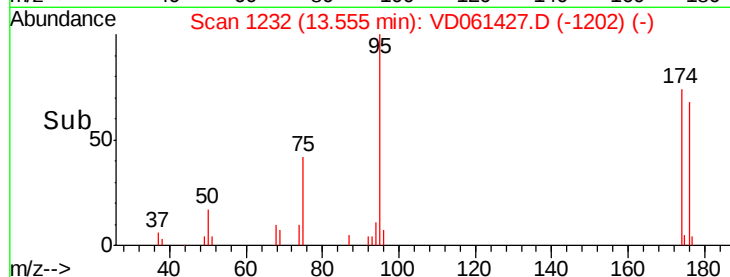
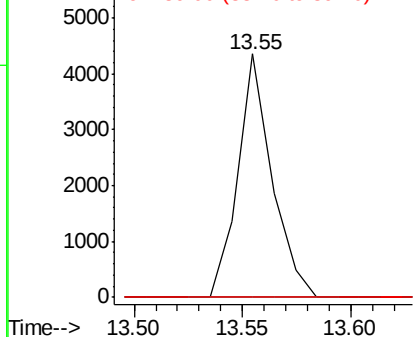
#81
trans-1,4-Dichloro-2-butene
Concen: 66.846 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.10 min
Lab File: VD061427.D
Acq: 29 Mar 2019 14:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 4766
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.8#
89 0.0 30.5 45.7#

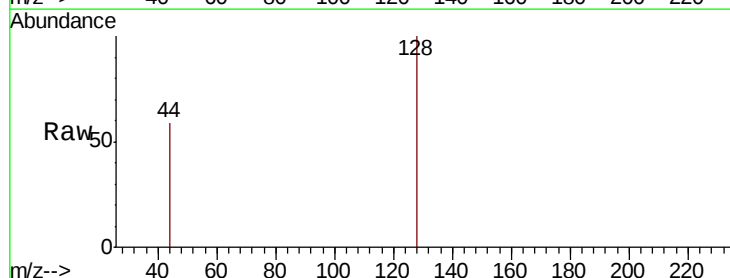


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#95
Naphthalene
Concen: 2.986 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VD061427.D
Acq: 29 Mar 2019 14:05

Tgt Ion: 128 Resp: 962
Ion Ratio Lower Upper
128 100
127 0.0 9.9 14.9#
129 0.0 8.9 13.3#



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

