

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031819\
 Data File : VD061152.D
 Acq On : 18 Mar 2019 18:23
 Operator : VA/AP
 Sample : K1935-08
 Misc : 4.65µl/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 19 02:17:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	129756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	269058	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	236000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	82456	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	96260	89.12	ug/l	0.00
Spiked Amount			Recovery	=	178.24%	
35) Dibromofluoromethane	6.92	113	113059	56.62	ug/l	0.00
Spiked Amount			Recovery	=	113.24%	
50) Toluene-d8	10.40	98	224639	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	
62) 4-Bromofluorobenzene	13.54	95	92537	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	

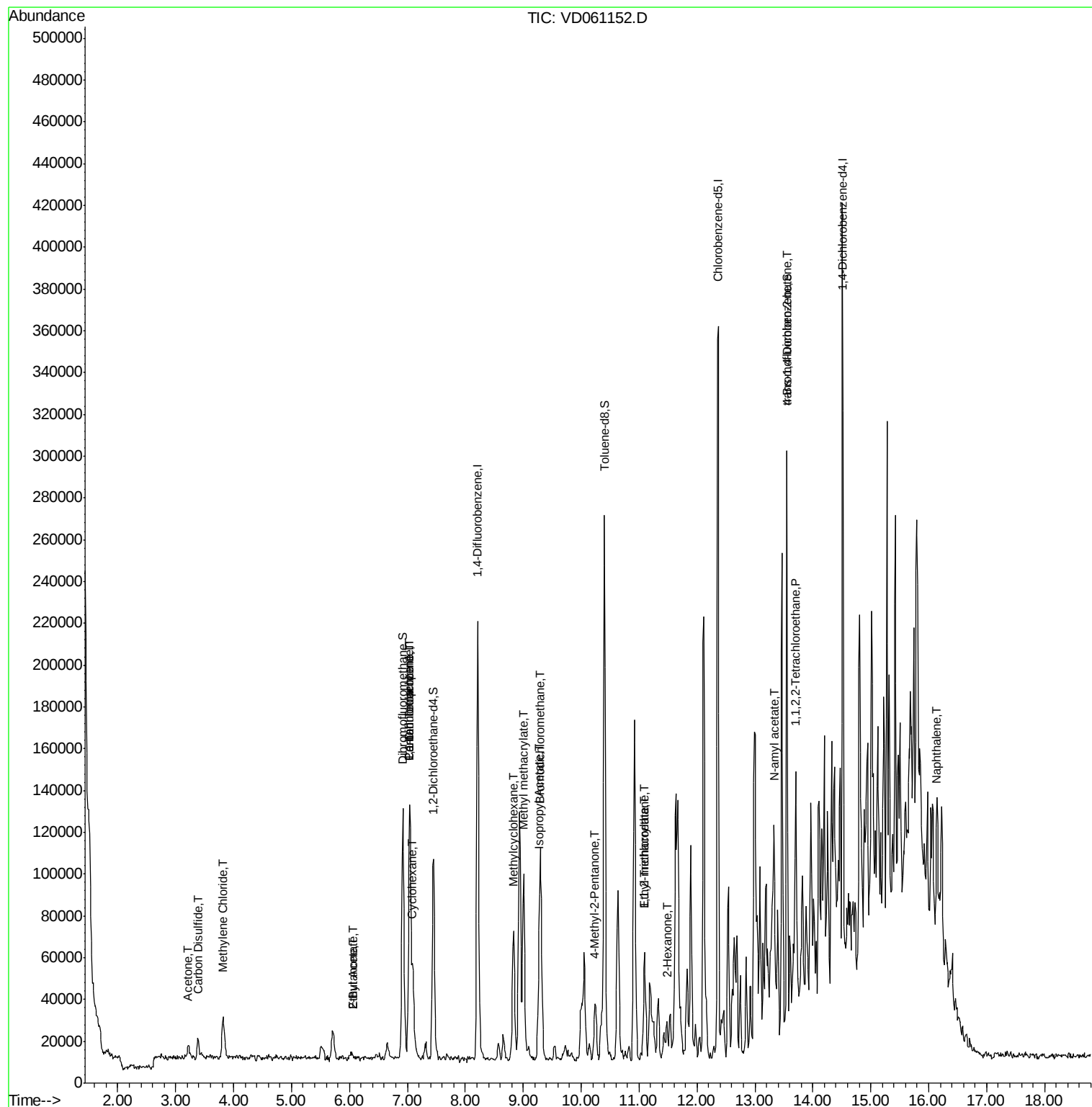
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.22	43	13491	43.681	ug/l	96
17) Carbon Disulfide	3.39	76	18380	4.183	ug/l	98
20) Methylene Chloride	3.82	84	14878	6.508	ug/l #	95
25) 2-Butanone	6.06	43	3744	10.683	ug/l #	55
31) Cyclohexane	7.10	56	24405	12.769	ug/l #	18
36) 1,1-Dichloropropene	7.04	75	8731	3.765	ug/l #	39
37) Ethyl Acetate	6.06	43	3517	3.232	ug/l #	66
38) Carbon Tetrachloride	7.04	117	11840	4.635	ug/l #	11
39) Methylcyclohexane	8.83	83	20287	8.436	ug/l #	37
43) Isopropyl Acetate	9.27	43	31555	20.934	ug/l #	43
47) Bromodichloromethane	9.30	83	3196	1.466	ug/l #	54
48) Methyl methacrylate	9.01	41	24844	29.273	ug/l #	43
51) 4-Methyl-2-Pentanone	10.24	43	2113	2.288	ug/l #	37
55) 1,1,2-Trichloroethane	11.09	97	23117	19.263	ug/l #	18
56) Ethyl methacrylate	11.09	69	5273	4.198	ug/l #	1
59) 2-Hexanone	11.48	43	8557	12.667	ug/l #	25
74) N-amyl acetate	13.33	43	33280	19.889	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	13.70	83	8769	7.563	ug/l #	48
81) trans-1,4-Dichloro-2-buten	13.54	75	34029	97.298	ug/l #	19
95) Naphthalene	16.12	128	4318	2.713	ug/l #	84

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

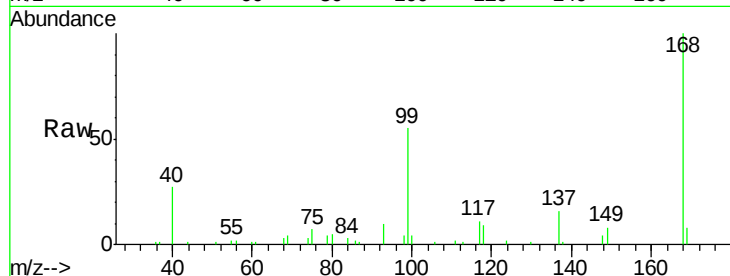
ClientSampleId :

Tot Ion:168 Resp: 129756

Ion Ratio Lower Upper

168 100

99 55.2 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

50000

40000

30000

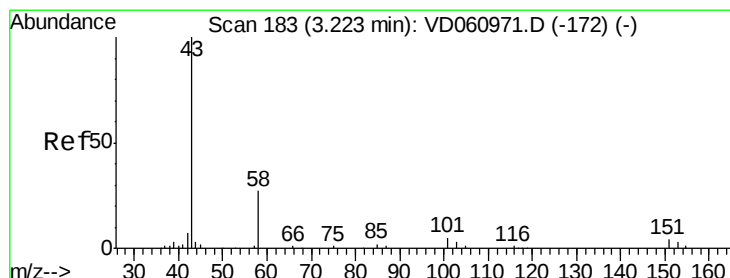
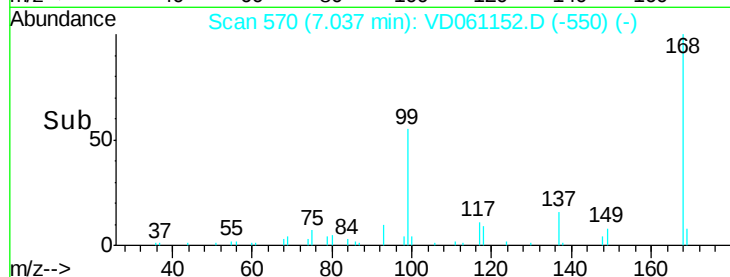
20000

10000

0

6.90 7.00 7.10 7.20

Time-->



#16

Acetone

Concen: 43.681 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061152.D

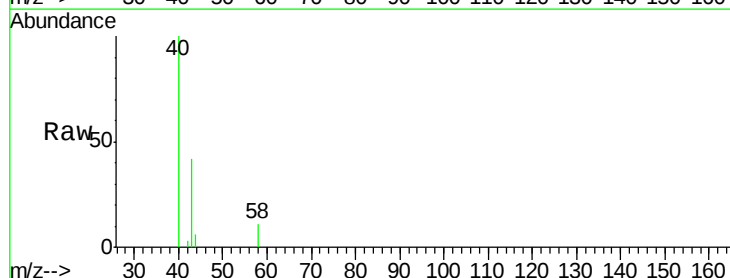
Acq: 18 Mar 2019 18:23

Tgt Ion: 43 Resp: 13491

Ion Ratio Lower Upper

43 100

58 25.0 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

5000

4000

3000

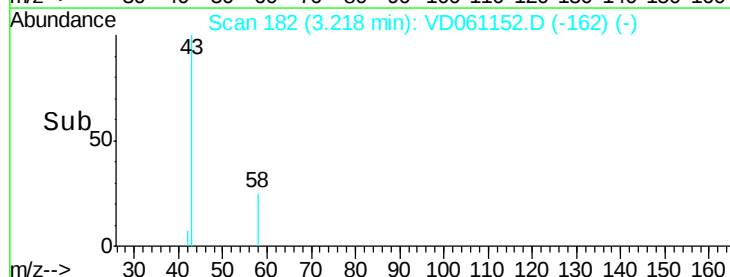
2000

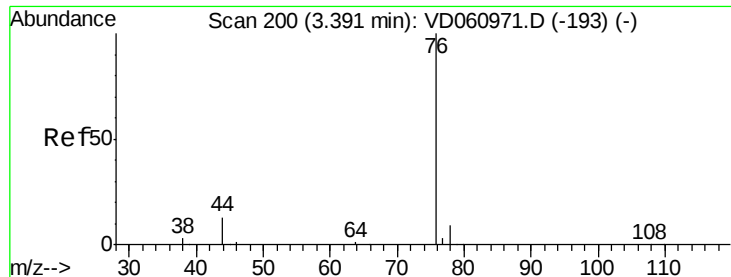
1000

0

3.10 3.20 3.30

Time-->





#17

Carbon Disulfide

Concen: 4.183 ug/l

RT: 3.39 min Scan# 199

Delta R.T. -0.01 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

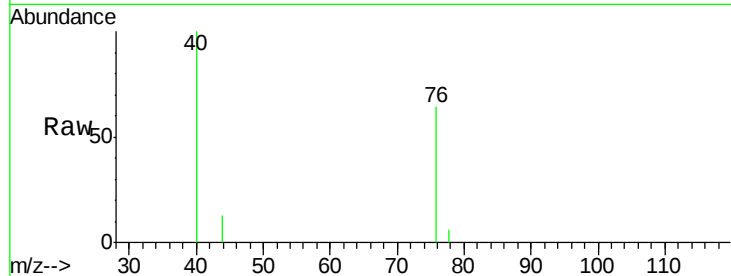
ClientSampleId :

Tot Ion: 76 Resp: 18380

Ion Ratio Lower Upper

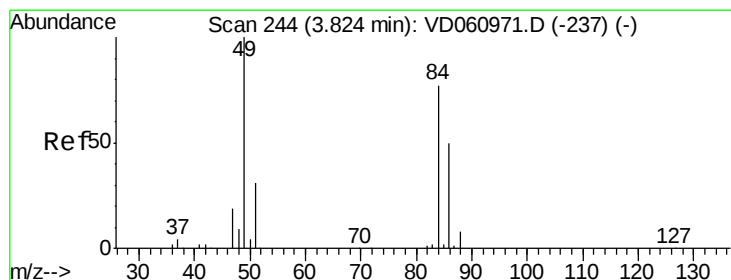
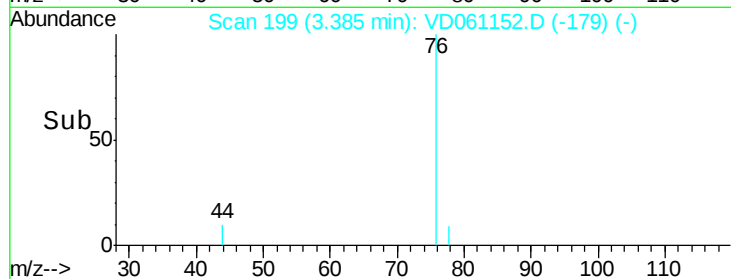
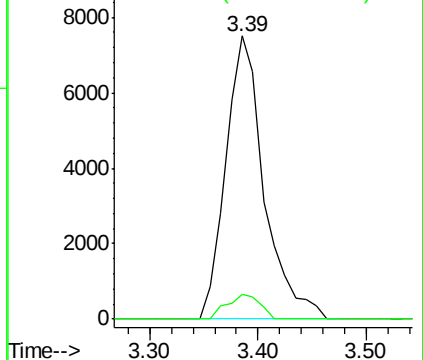
76 100

78 8.7 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 6.508 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Tgt Ion: 84 Resp: 14878

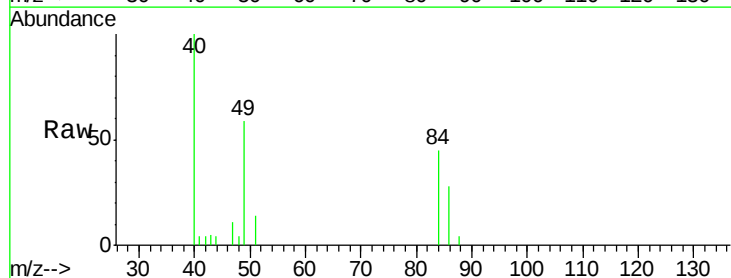
Ion Ratio Lower Upper

84 100

49 129.6 104.2 156.2

51 30.7 32.3 48.5#

86 60.9 52.3 78.5

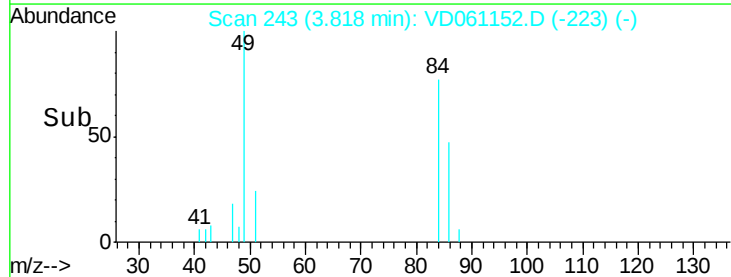
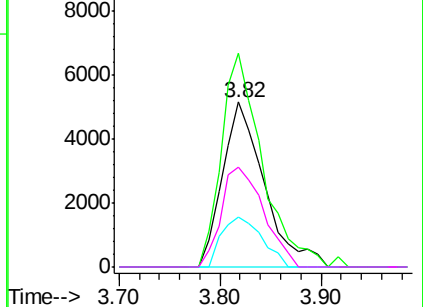


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 10.683 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

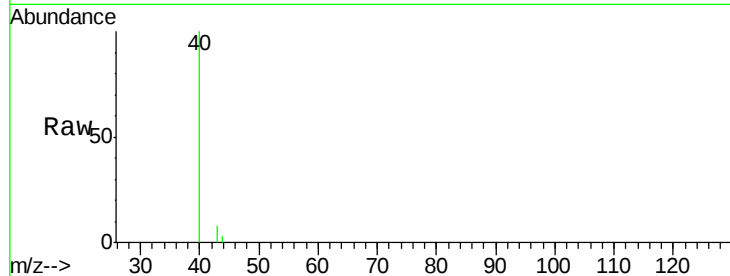
ClientSampleId :

Tot Ion: 43 Resp: 3744

Ion Ratio Lower Upper

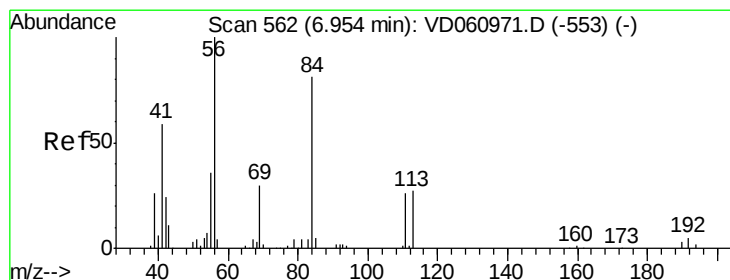
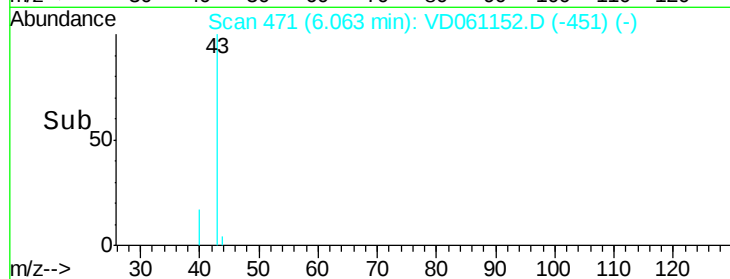
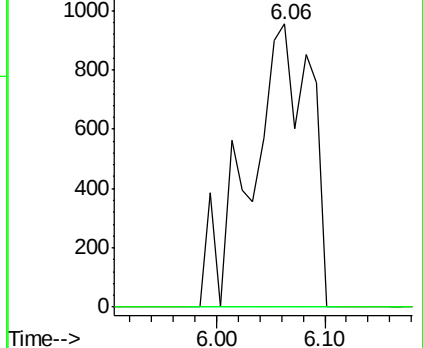
43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 12.769 ug/l

RT: 7.10 min Scan# 576

Delta R.T. 0.14 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

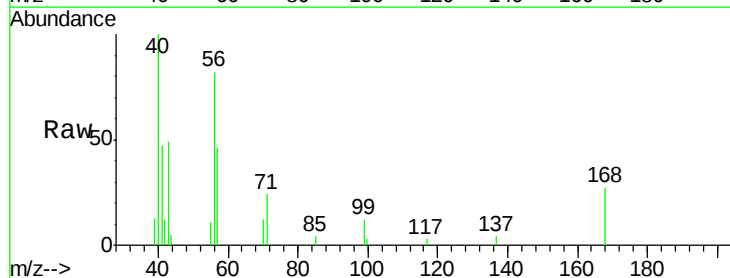
Tgt Ion: 56 Resp: 24405

Ion Ratio Lower Upper

56 100

69 0.0 24.0 36.0#

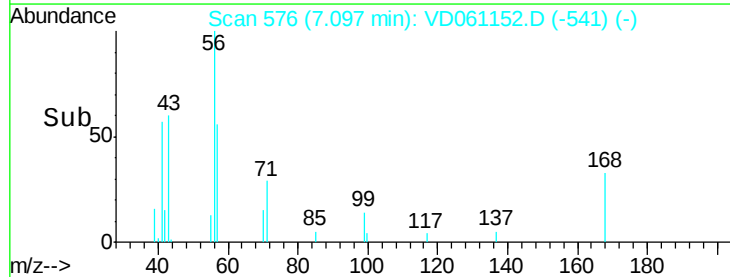
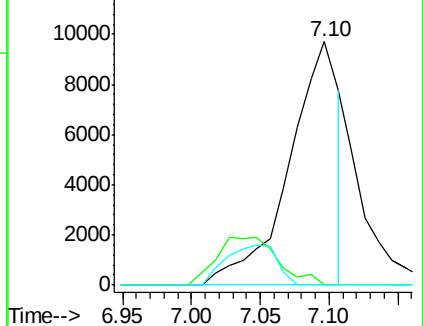
84 0.0 65.8 98.6#

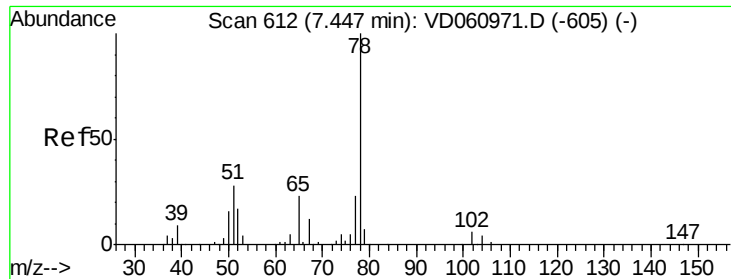


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

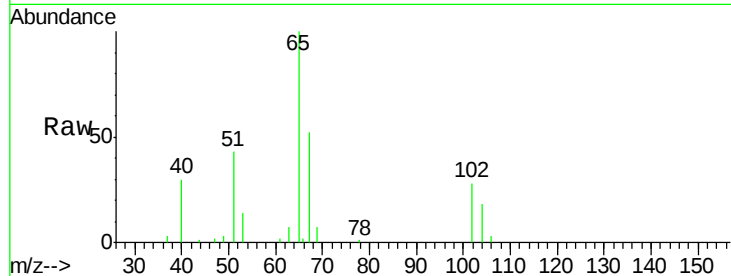
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 96260

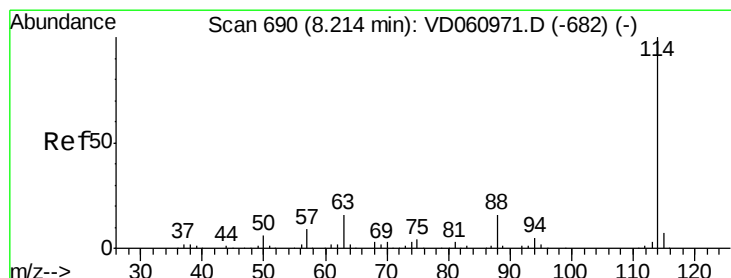
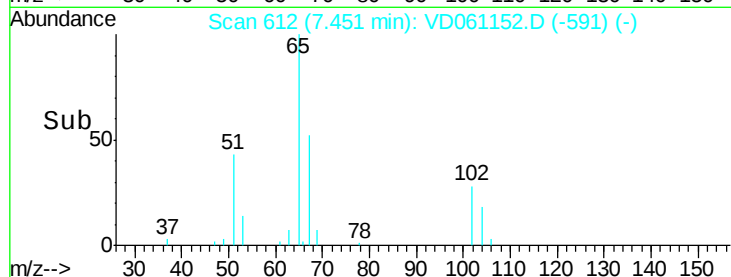
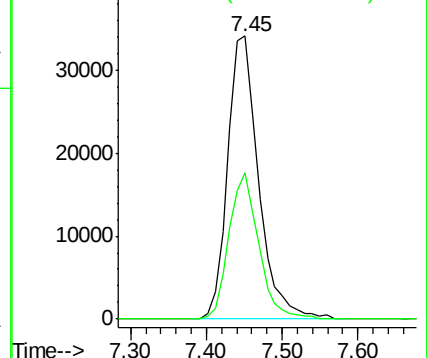
Ion Ratio Lower Upper

65 100

67 51.6 0.0 105.2



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: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

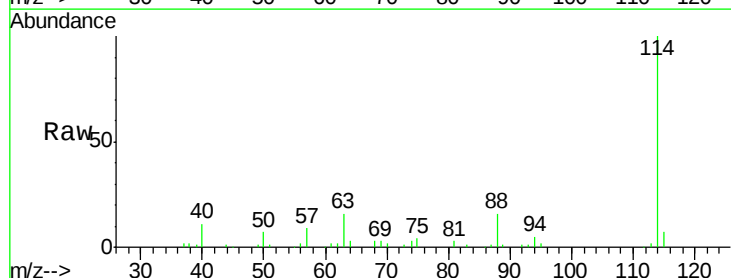
Tgt Ion: 114 Resp: 269058

Ion Ratio Lower Upper

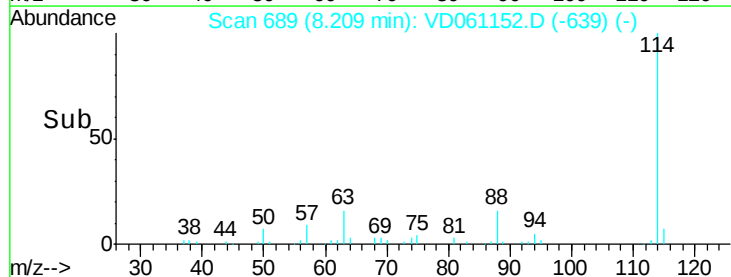
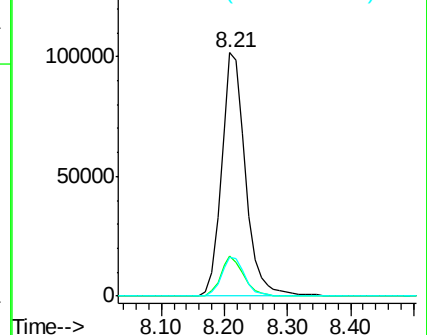
114 100

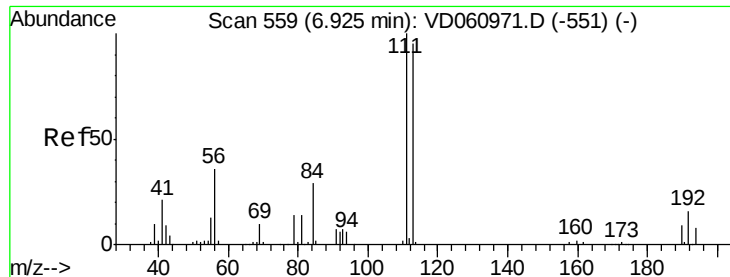
63 16.4 0.0 31.4

88 16.1 0.0 33.0



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: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

ClientSampled :

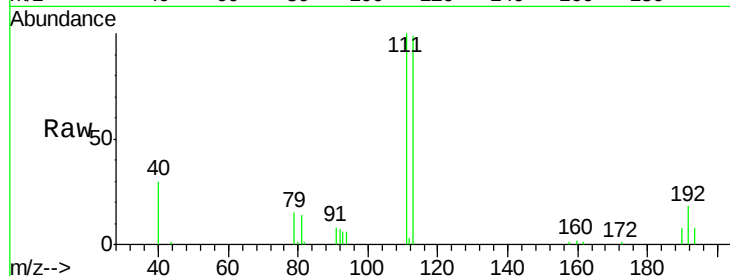
Tot Ion:113 Resp: 113059

Ion Ratio Lower Upper

113 100

111 100.7 84.2 126.4

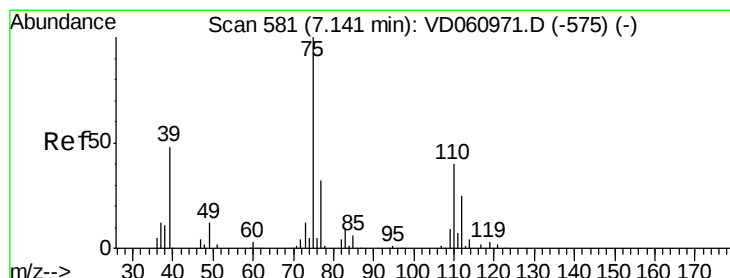
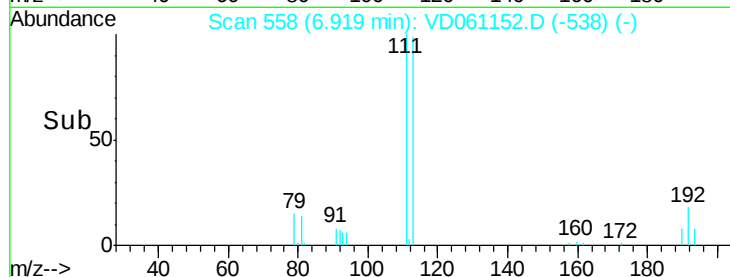
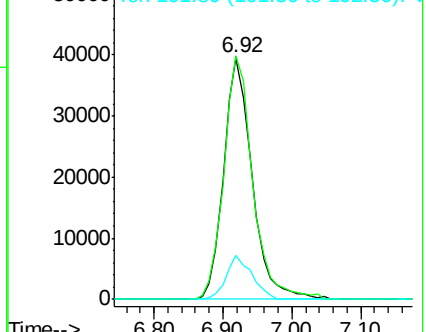
192 18.4 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 3.765 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

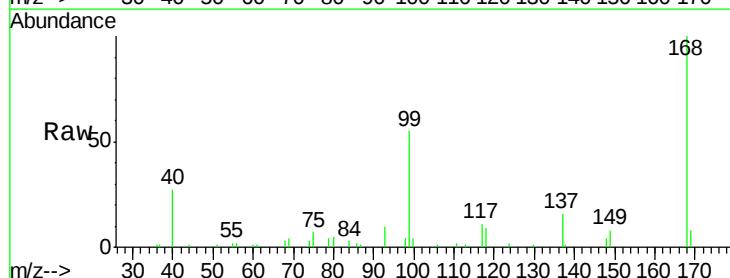
Tgt Ion: 75 Resp: 8731

Ion Ratio Lower Upper

75 100

110 0.0 19.7 59.1#

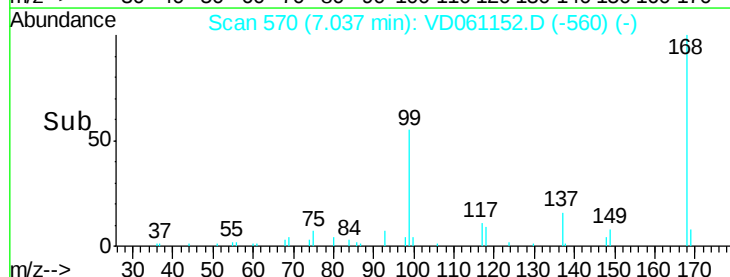
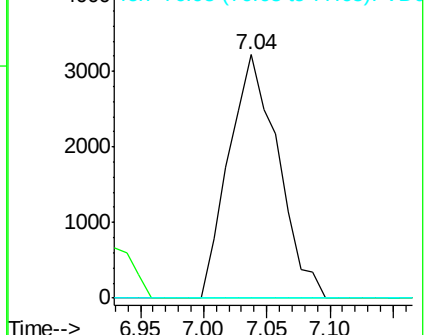
77 0.0 24.7 37.1#

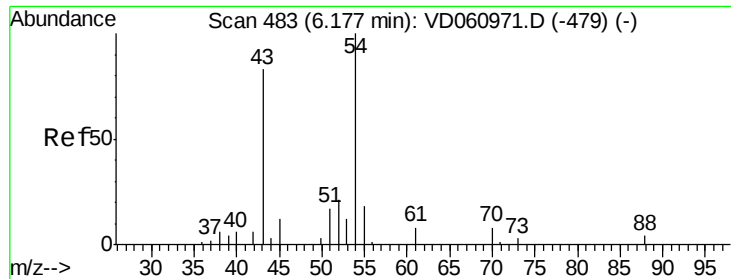


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

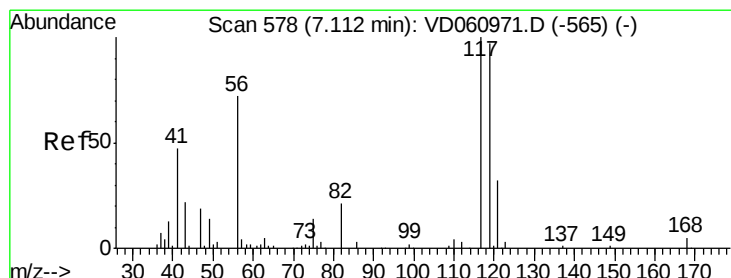
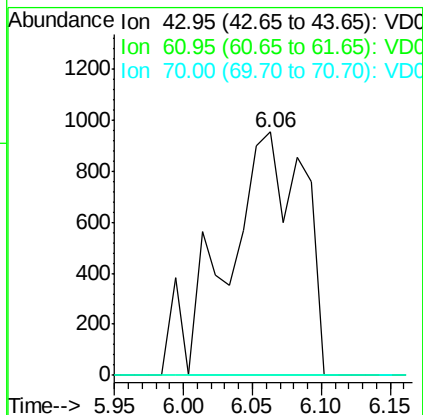
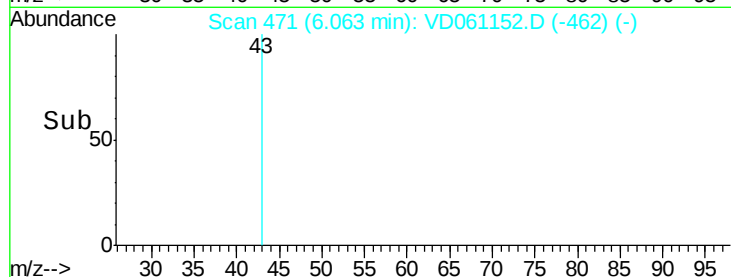
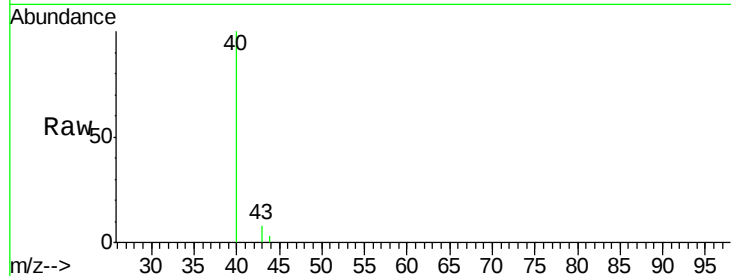




#37
Ethyl Acetate
Concen: 3.232 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.11 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

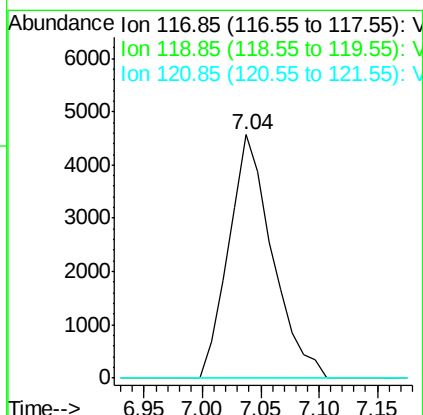
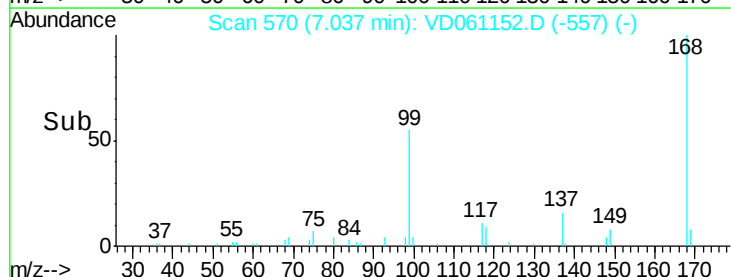
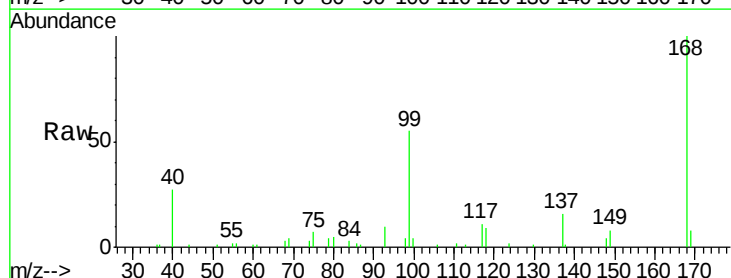
Instrument :
MSVOA_D
ClientSampleId :

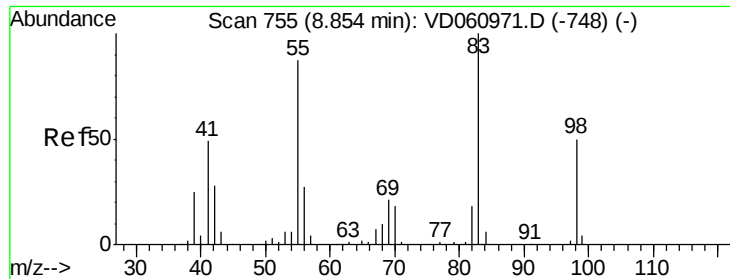
Tot Ion: 43 Resp: 3517
Ion Ratio Lower Upper
43 100
61 0.0 13.7 20.5#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.635 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

Tgt Ion: 117 Resp: 11840
Ion Ratio Lower Upper
117 100
119 0.0 77.8 116.8#
121 0.0 25.3 37.9#

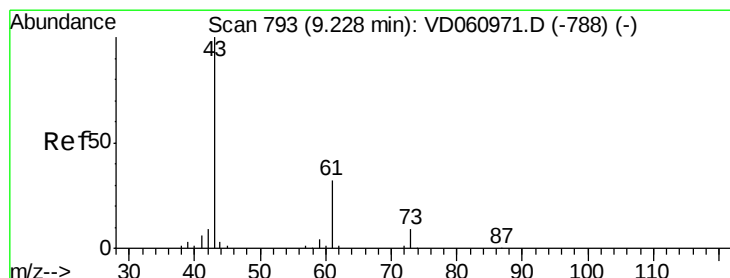
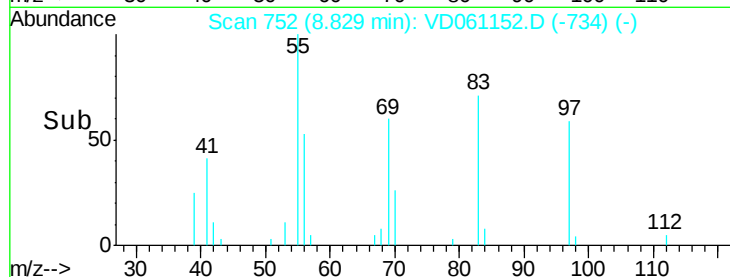
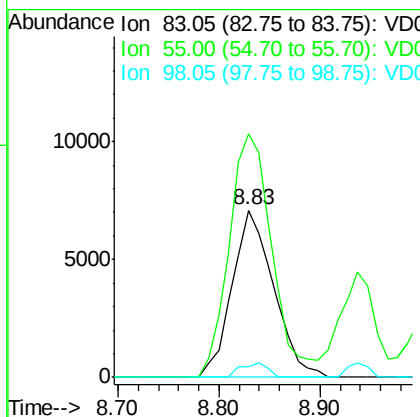
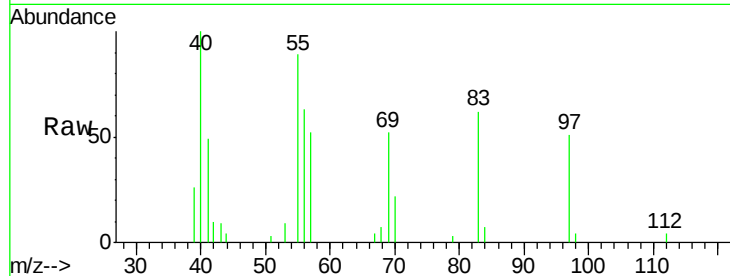




#39
Methylcyclohexane
Concen: 8.436 ug/l
RT: 8.83 min Scan# 752
Delta R.T. -0.03 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

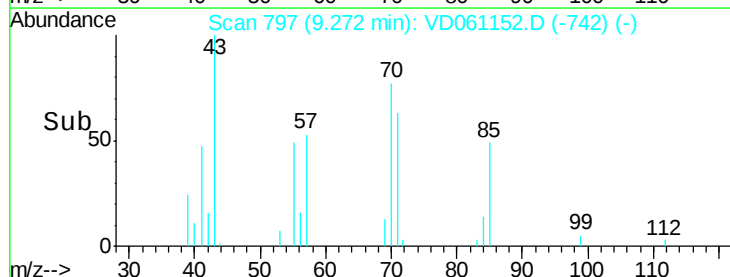
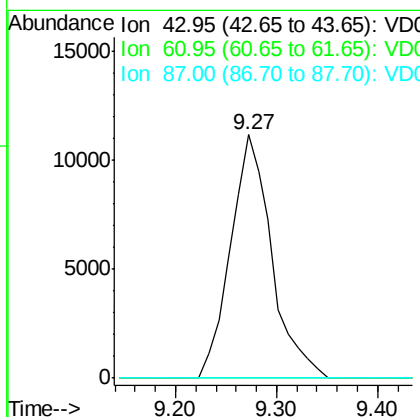
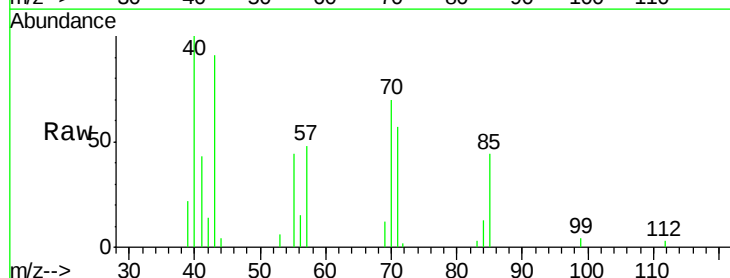
Instrument :
MSVOA_D
ClientSampled :

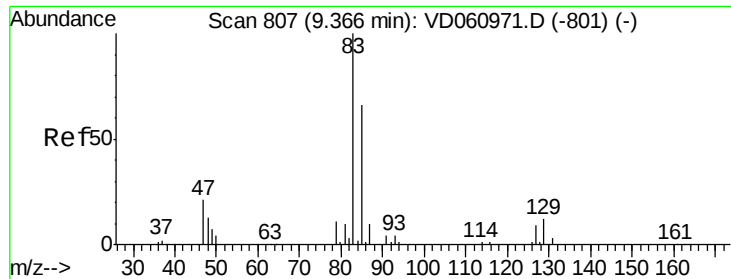
Tot Ion: 83 Resp: 20287
Ion Ratio Lower Upper
83 100
55 145.5 69.6 104.4#
98 6.1 40.0 60.0#



#43
Isopropyl Acetate
Concen: 20.934 ug/l
RT: 9.27 min Scan# 797
Delta R.T. 0.04 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

Tgt Ion: 43 Resp: 31555
Ion Ratio Lower Upper
43 100
61 0.0 25.6 38.4#
87 0.0 0.2 0.4#





#47

Bromodichloromethane

Concen: 1.466 ug/l

RT: 9.30 min Scan# 800

Delta R.T. -0.06 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

ClientSampleId :

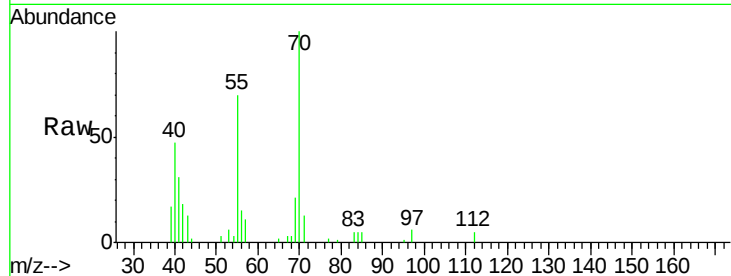
Tot Ion: 83 Resp: 3196

Ion Ratio Lower Upper

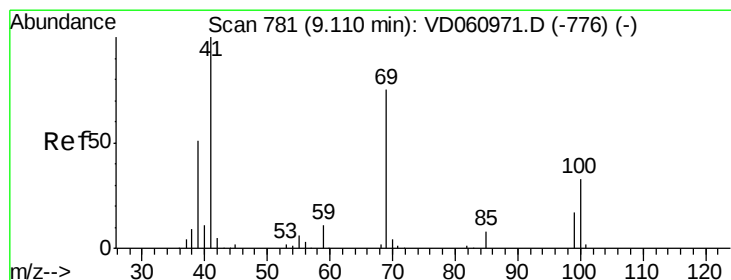
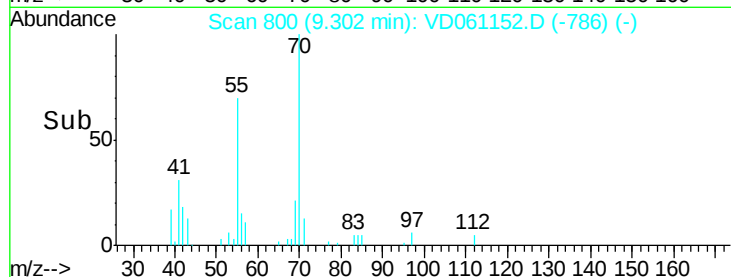
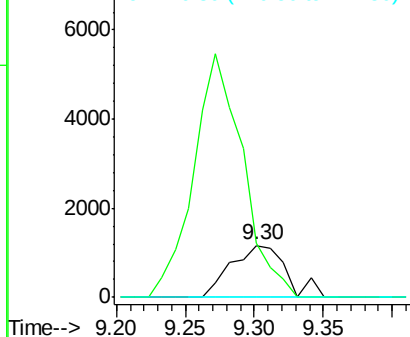
83 100

85 104.6 52.5 78.7#

127 0.0 7.5 11.3#



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 29.273 ug/l

RT: 9.01 min Scan# 770

Delta R.T. -0.10 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

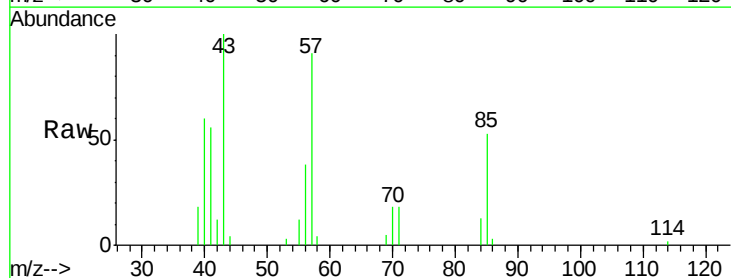
Tgt Ion: 41 Resp: 24844

Ion Ratio Lower Upper

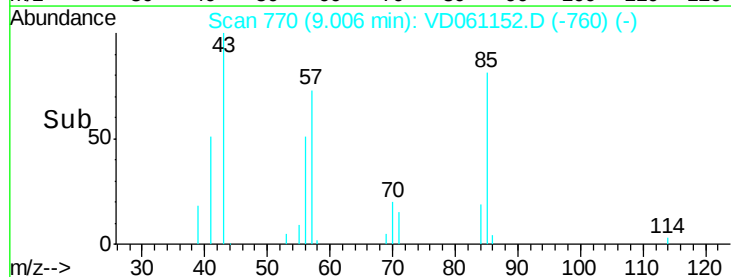
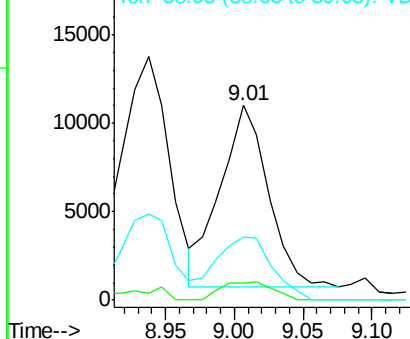
41 100

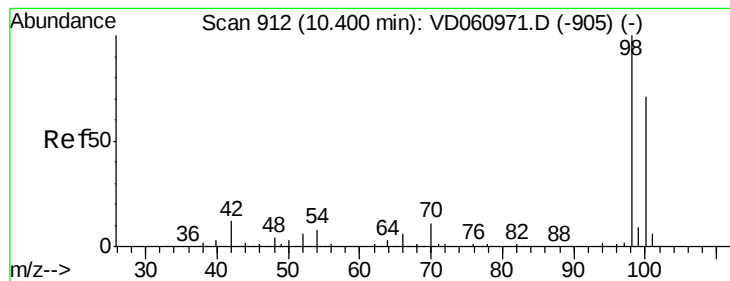
69 8.6 59.9 89.9#

39 32.7 40.9 61.3#



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

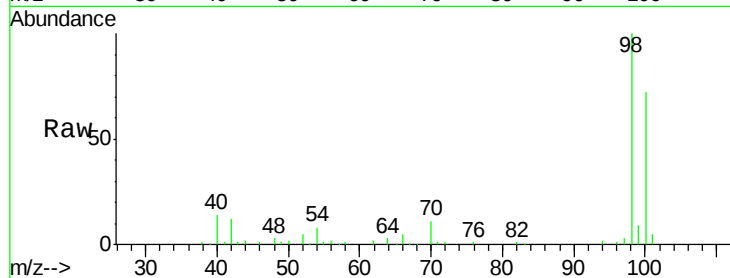
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 224639

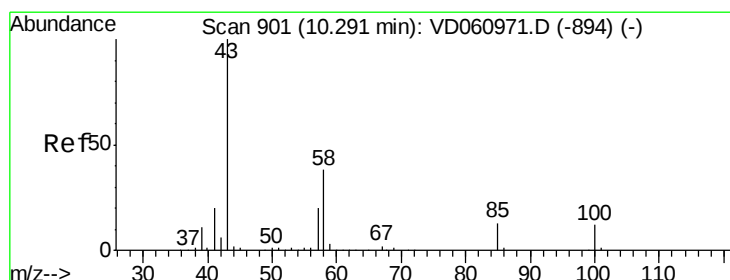
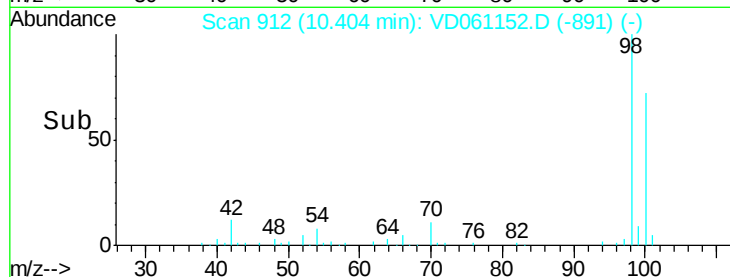
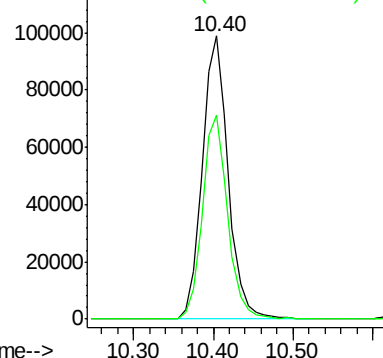
Ion Ratio Lower Upper

98 100

100 71.9 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 2.288 ug/l

RT: 10.24 min Scan# 895

Delta R.T. -0.05 min

Lab File: VD061152.D

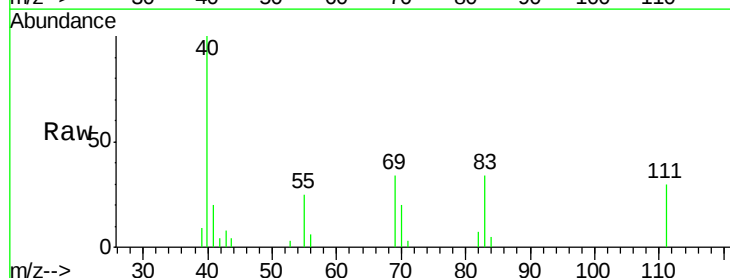
Acq: 18 Mar 2019 18:23

Tgt Ion: 43 Resp: 2113

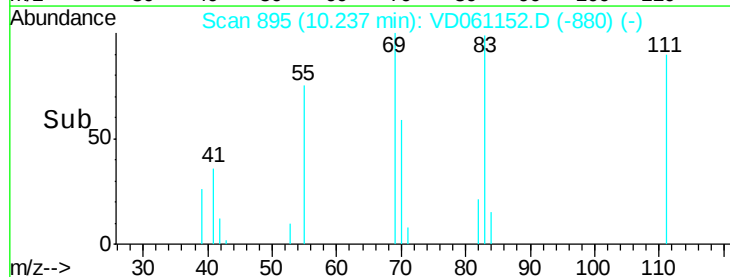
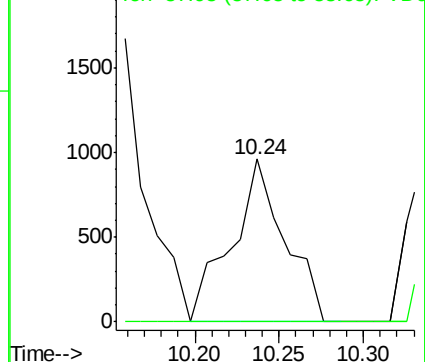
Ion Ratio Lower Upper

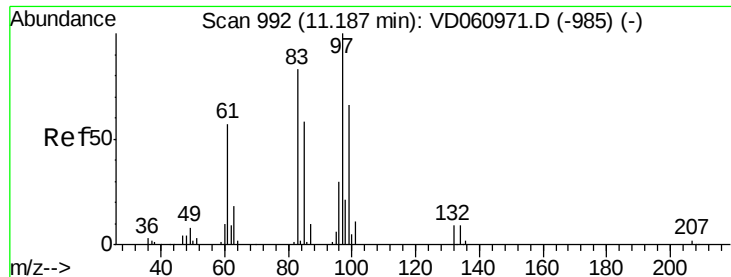
43 100

58 0.0 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#55

1,1,2-Trichloroethane

Concen: 19.263 ug/l

RT: 11.09 min Scan# 982

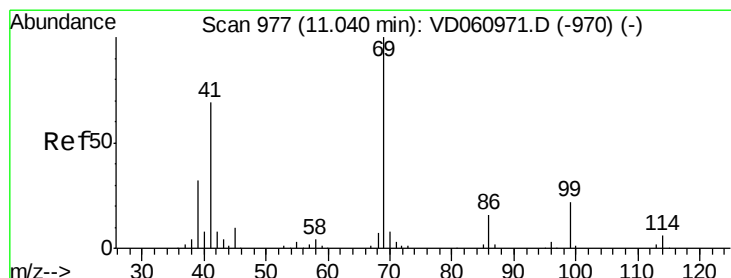
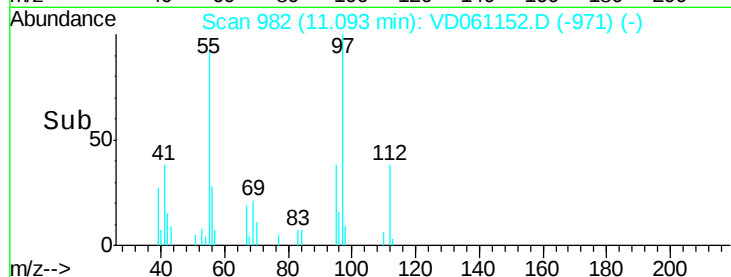
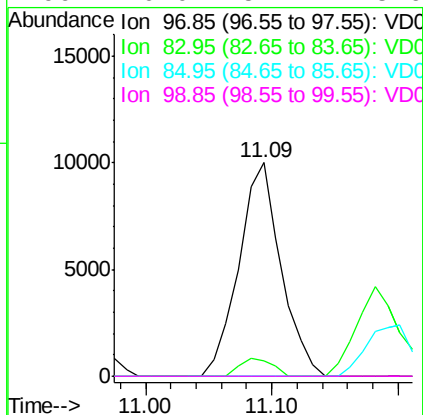
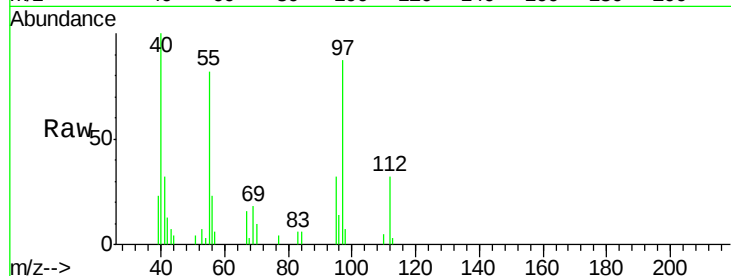
Delta R.T. -0.09 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	97	Resp:	23117
Ion	Ratio	Lower	Upper
97	100		
83	6.9	66.6	100.0#
85	0.0	46.4	69.6#
99	0.0	52.4	78.6#



#56

Ethyl methacrylate

Concen: 4.198 ug/l

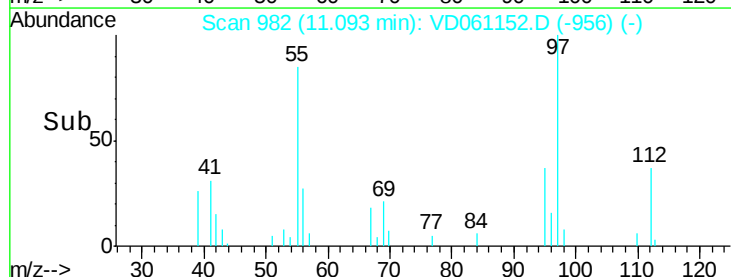
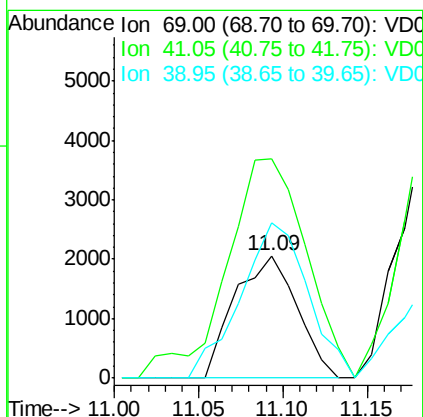
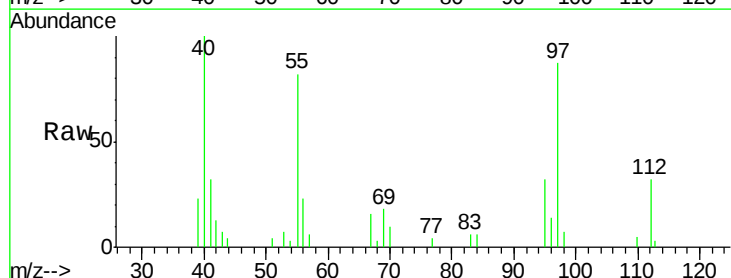
RT: 11.09 min Scan# 982

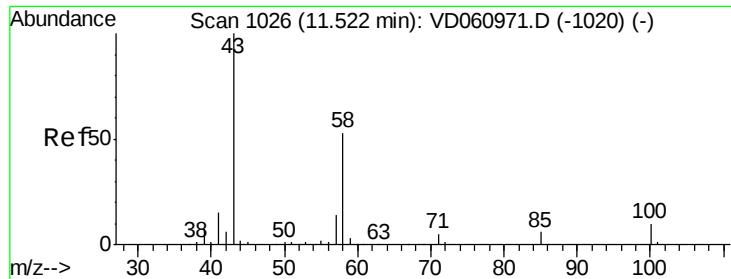
Delta R.T. 0.05 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Tgt Ion:	69	Resp:	5273
Ion	Ratio	Lower	Upper
69	100		
41	179.4	55.5	83.3#
39	126.9	26.2	39.2#

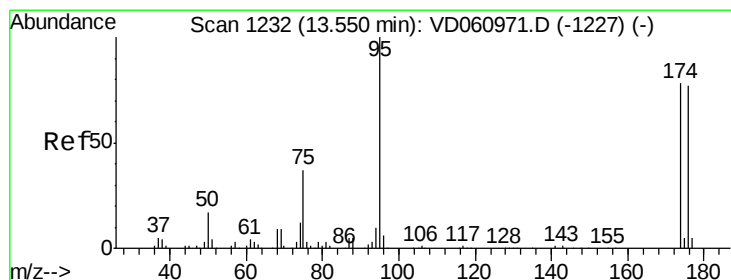
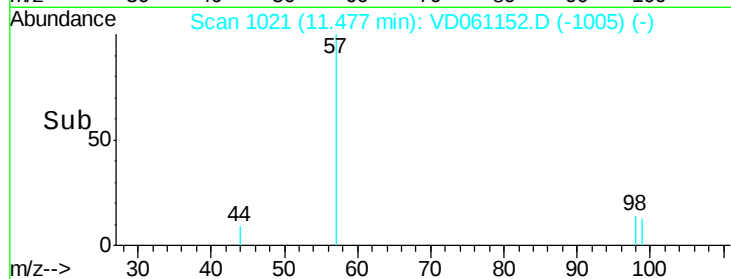
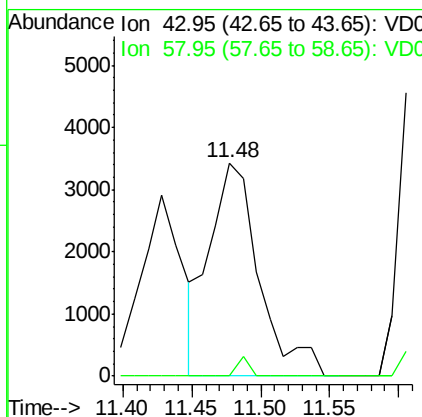
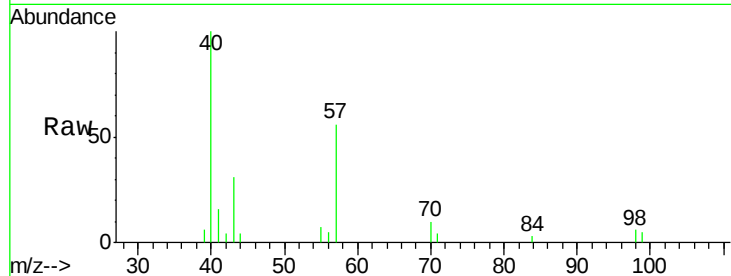




#59
2-Hexanone
Concen: 12.667 ug/l
RT: 11.48 min Scan# 1021
Delta R.T. -0.04 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

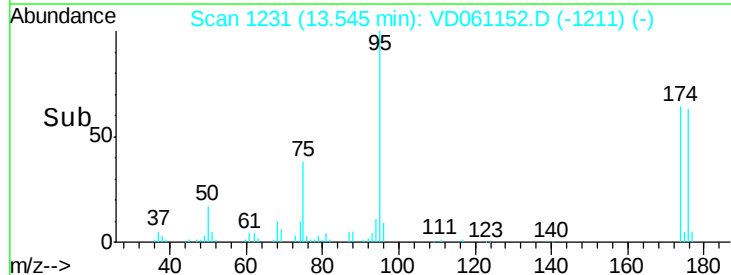
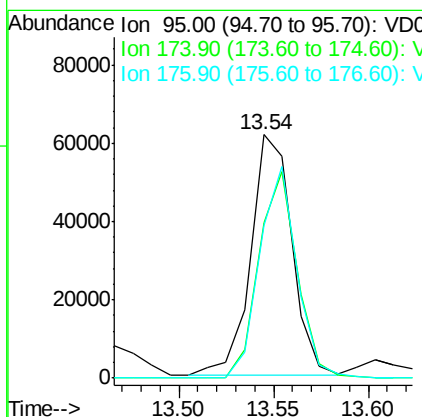
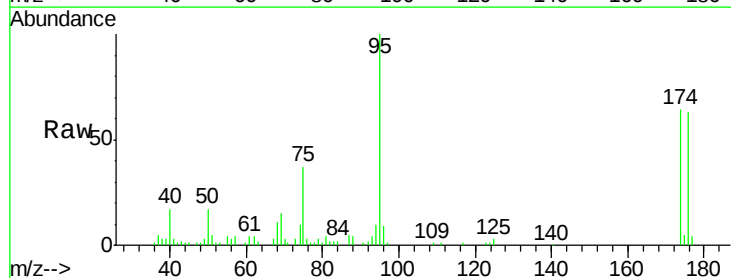
Instrument :
MSVOA_D
ClientSampled :

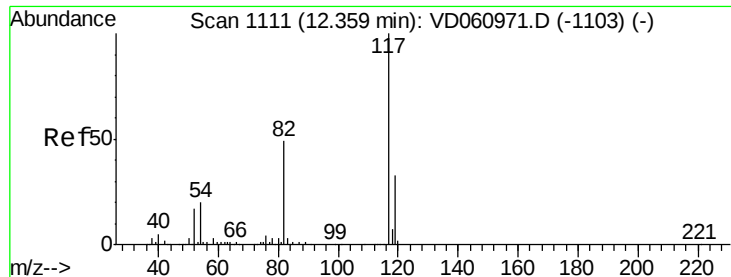
Tot Ion: 43 Resp: 8557
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

Tgt Ion: 95 Resp: 92537
Ion Ratio Lower Upper
95 100
174 63.7 0.0 155.6
176 62.8 0.0 153.8

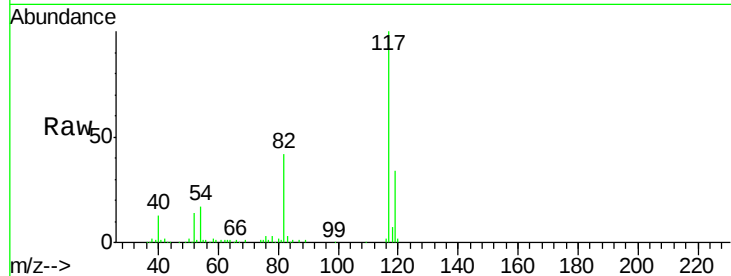




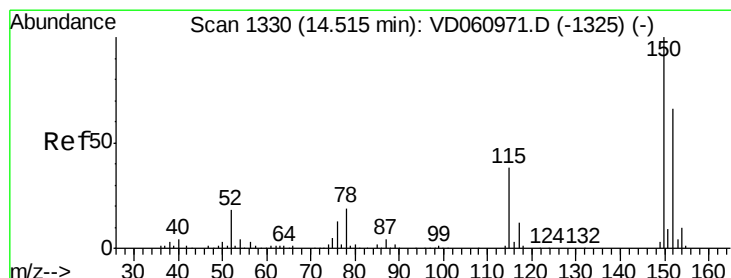
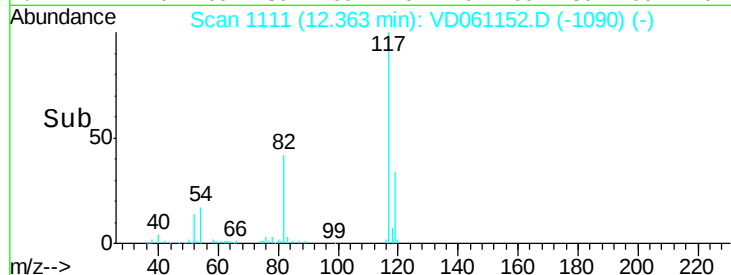
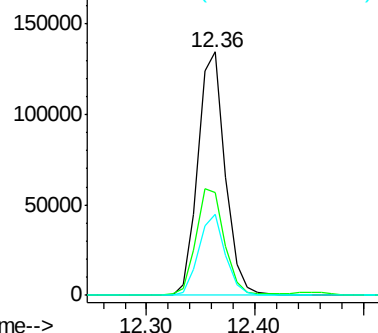
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 236000
Ion Ratio Lower Upper
117 100
82 42.2 38.9 58.3
119 33.5 26.6 39.8

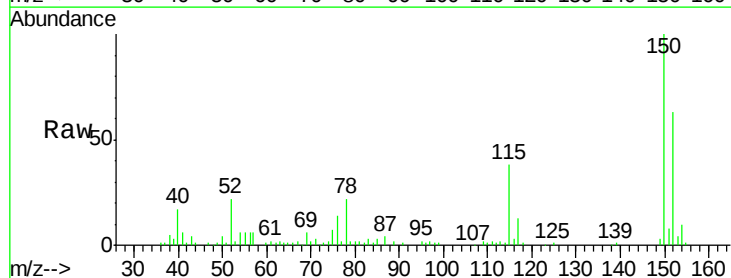


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

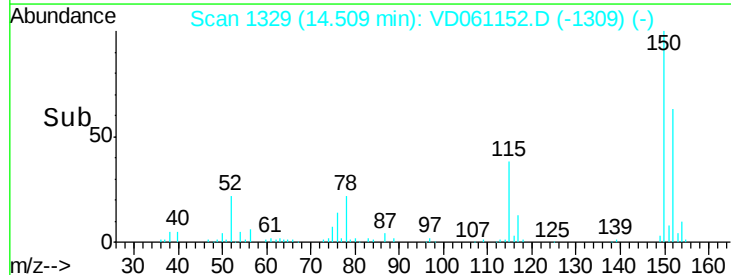
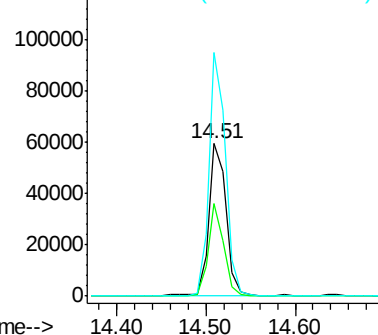


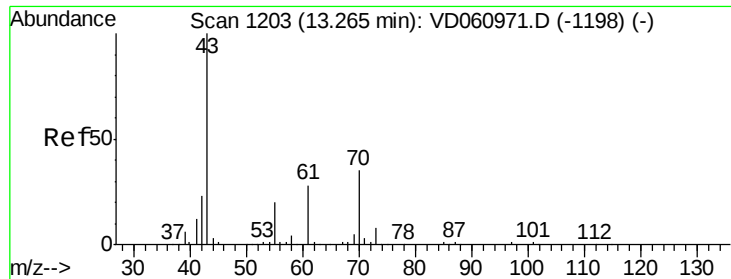
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061152.D
Acq: 18 Mar 2019 18:23

Tgt Ion:152 Resp: 82456
Ion Ratio Lower Upper
152 100
115 60.5 28.6 85.9
150 159.6 0.0 310.6



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-amvl acetate

Concen: 19.889 ug/l

RT: 13.33 min Scan# 1209

Delta R.T. 0.06 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 33280

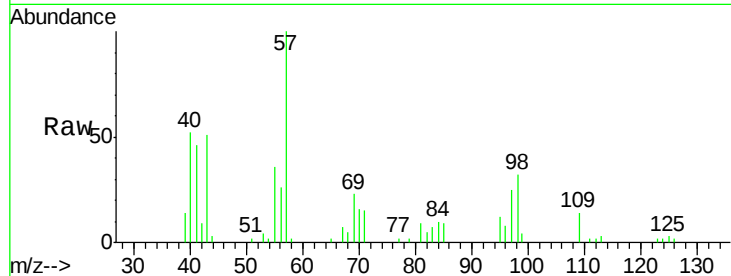
Ion Ratio Lower Upper

43 100

70 32.1 27.7 41.5

55 70.4 16.2 24.2#

61 0.0 22.3 33.5#

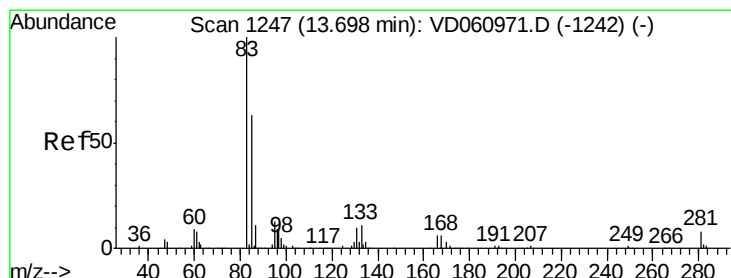
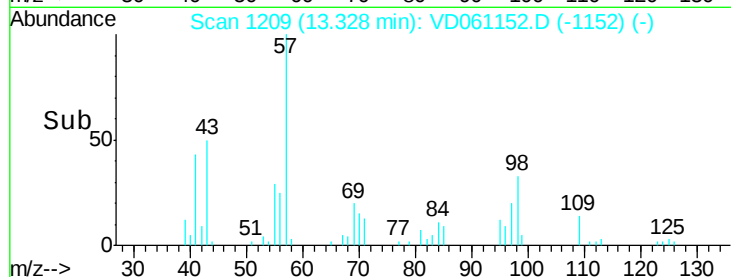
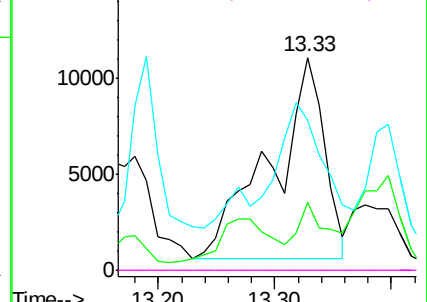


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 7.563 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

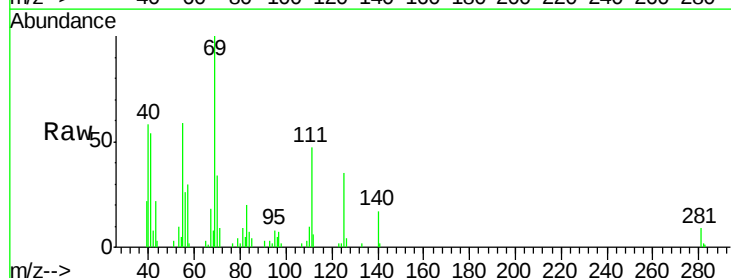
Tgt Ion: 83 Resp: 8769

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

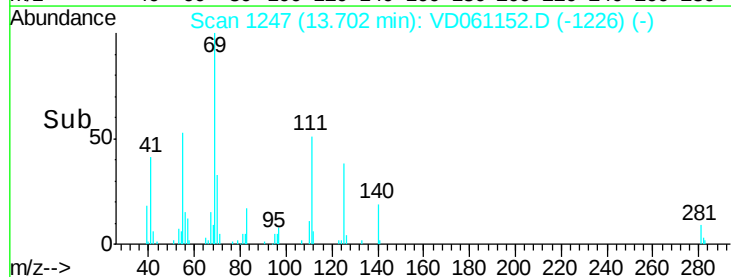
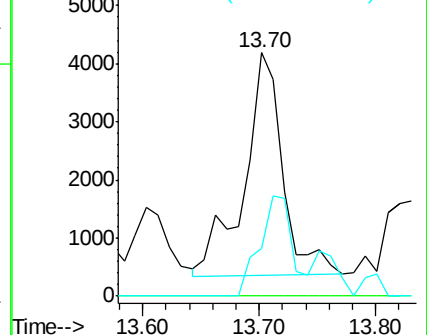
85 19.6 31.5 94.5#

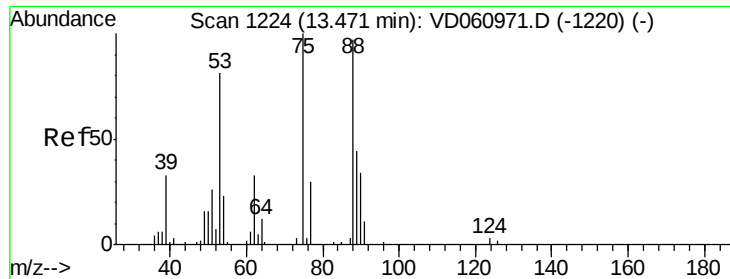


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 97.298 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

Instrument :

MSVOA_D

ClientSampleId :

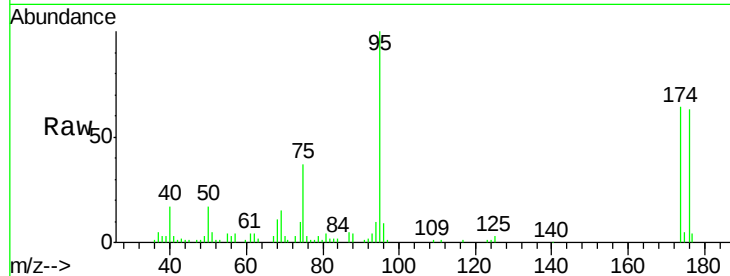
Tot Ion: 75 Resp: 34029

Ion Ratio Lower Upper

75 100

53 2.0 64.4 96.6#

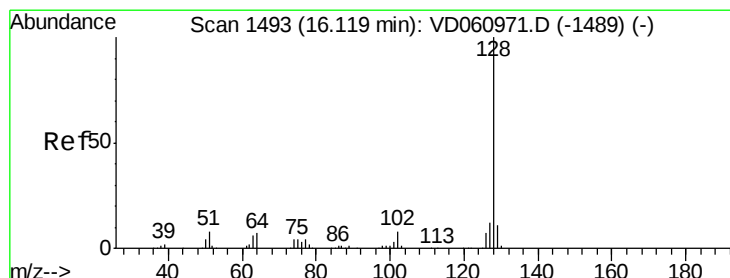
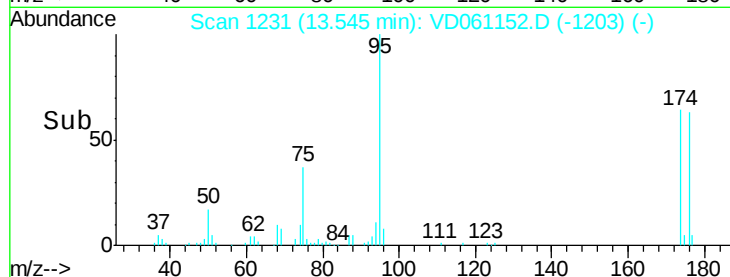
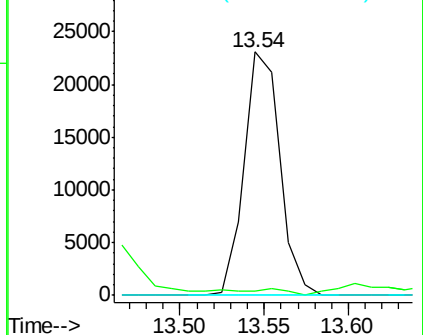
89 0.0 34.8 52.2#



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: 2.713 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD061152.D

Acq: 18 Mar 2019 18:23

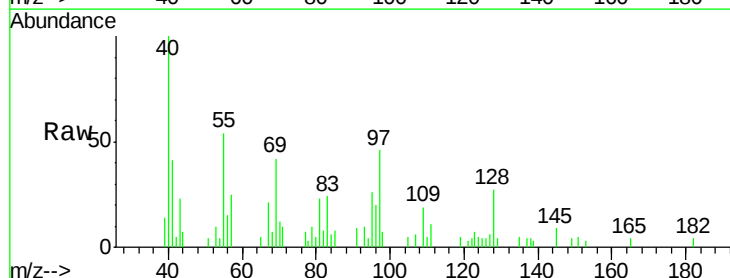
Tgt Ion: 128 Resp: 4318

Ion Ratio Lower Upper

128 100

127 20.5 9.8 14.8#

129 14.5 8.5 12.7#



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

