

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032119\
 Data File : VD061247.D
 Acq On : 21 Mar 2019 16:21
 Operator : VA/AP
 Sample : K2004-01RE
 Misc : 5.77g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 04:31:59 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	7.07	168	274177	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	482464	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	397029	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	165483	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	146349	64.13	ug/l	0.03
Spiked Amount	50.000		Recovery	=	128.26%	
35) Dibromofluoromethane	6.95	113	176617	49.33	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.66%	
50) Toluene-d8	10.43	98	390423	43.42	ug/l	0.03
Spiked Amount	50.000		Recovery	=	86.84%	
62) 4-Bromofluorobenzene	13.56	95	160082	45.88	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.76%	

Target Compounds

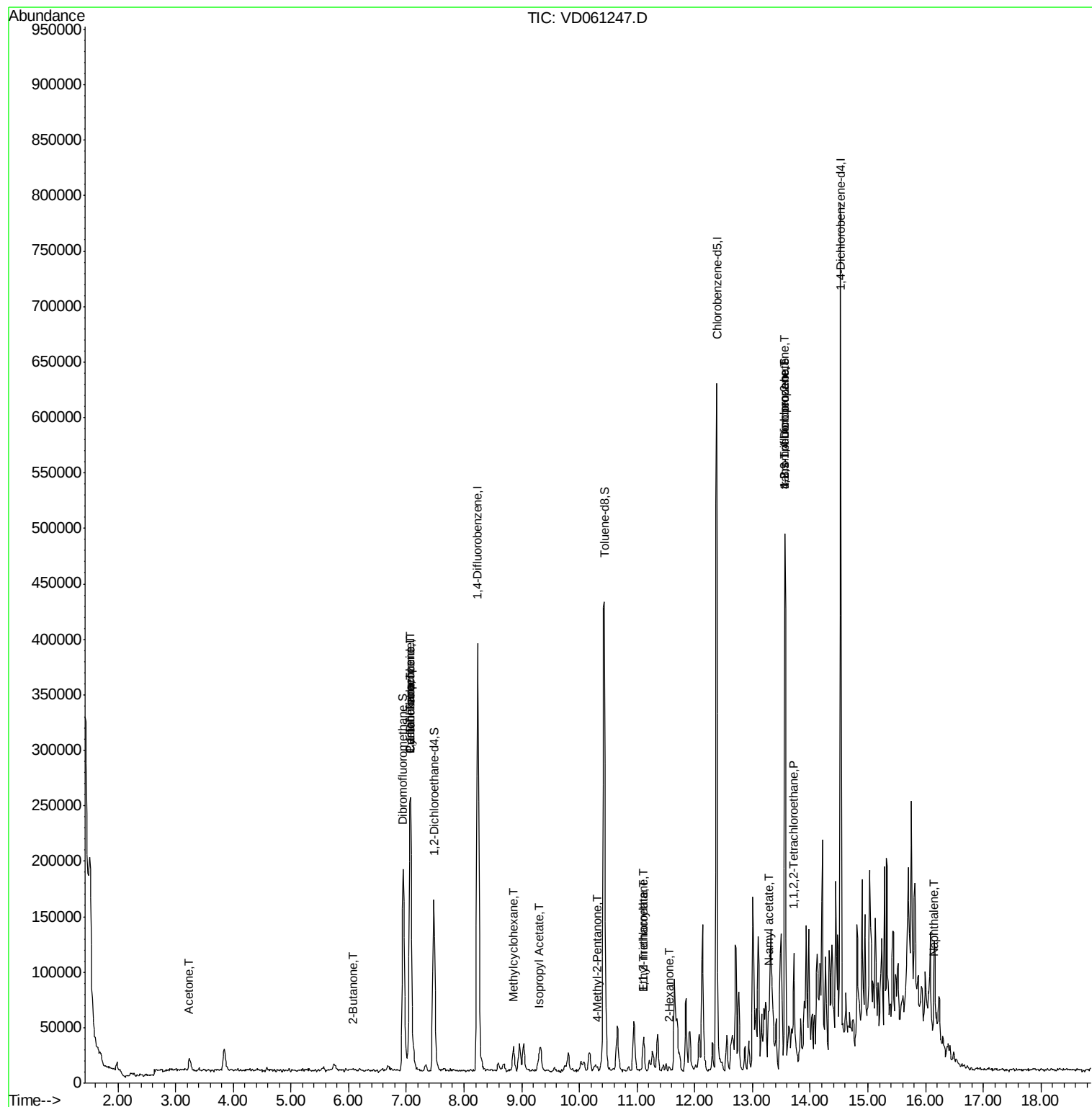
						Qvalue
5) Bromomethane	2.19	94	191	Below Cal	#	8
16) Acetone	3.23	43	21602	33.101	ug/l	93
25) 2-Butanone	6.09	43	7024	9.485	ug/l	99
31) Cyclohexane	7.08	56	6016	1.490	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	19491	4.687	ug/l #	47
38) Carbon Tetrachloride	7.06	117	25871	5.647	ug/l #	15
39) Methylcyclohexane	8.85	83	6617	1.534	ug/l #	36
43) Isopropyl Acetate	9.30	43	9577	3.543	ug/l #	43
51) 4-Methyl-2-Pentanone	10.32	43	1984	1.198	ug/l	90
55) 1,1,2-Trichloroethane	11.11	97	17327	8.052	ug/l #	18
56) Ethyl methacrylate	11.11	69	4109	1.824	ug/l #	23
59) 2-Hexanone	11.54	43	1968	1.625	ug/l	95
74) N-amyl acetate	13.27	43	10984	3.271	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	13.72	83	7940	3.412	ug/l #	68
76) 1,2,3-Trichloropropane	13.56	75	43448	18.250	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.56	75	54894	78.208	ug/l #	18
95) Naphthalene	16.13	128	4040	1.265	ug/l #	96

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

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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: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Instrument :

MSVOA_D

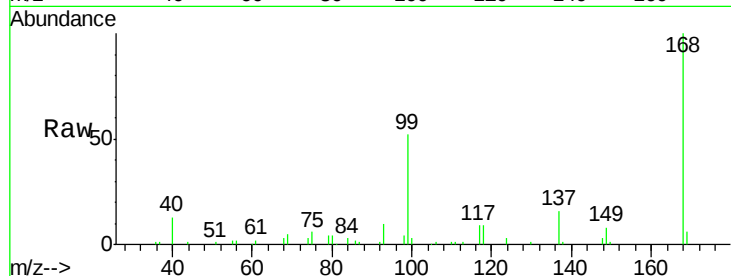
ClientSampleId :

Tot Ion:168 Resp: 274177

Ion Ratio Lower Upper

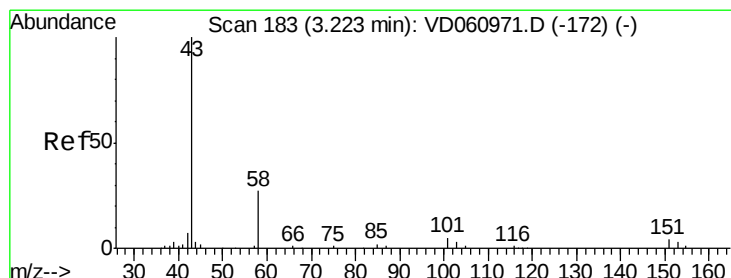
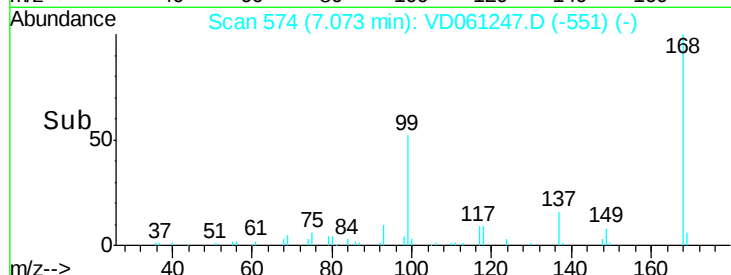
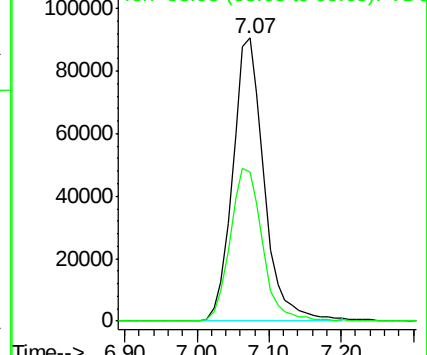
168 100

99 52.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 33.101 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD061247.D

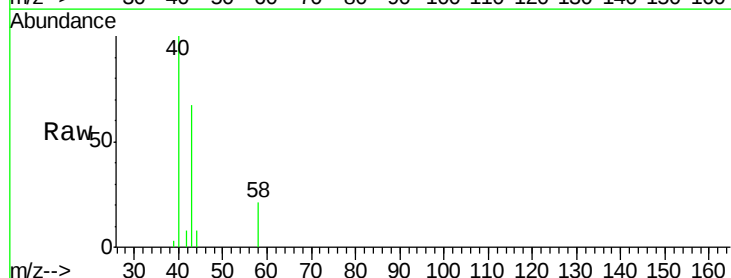
Acq: 21 Mar 2019 16:21

Tgt Ion: 43 Resp: 21602

Ion Ratio Lower Upper

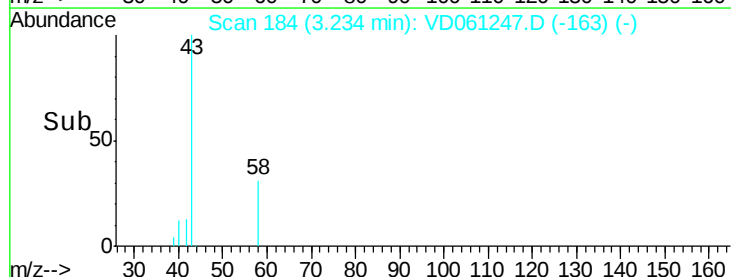
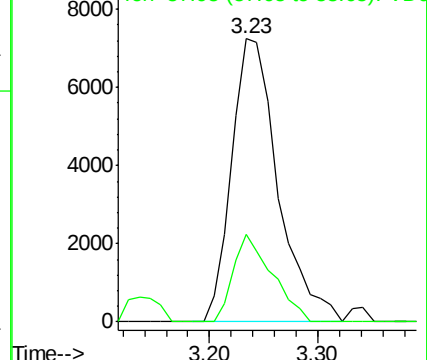
43 100

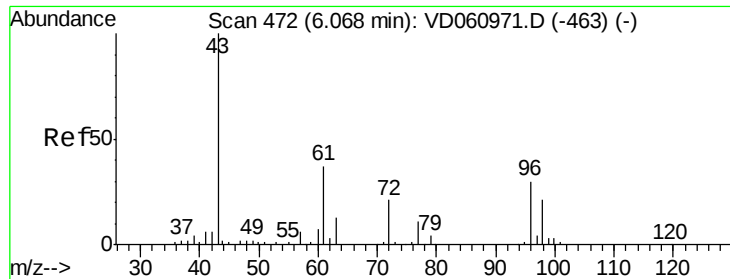
58 30.7 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 9.485 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

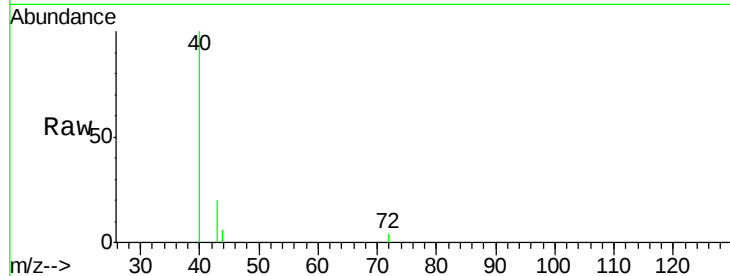
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 7024

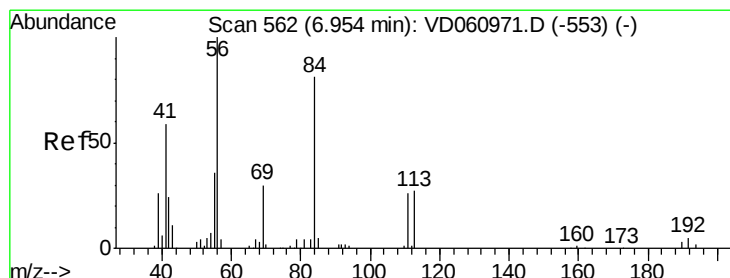
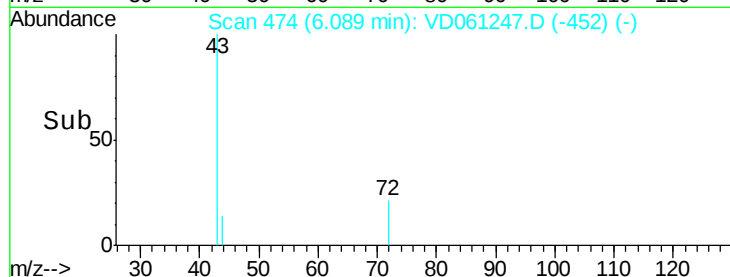
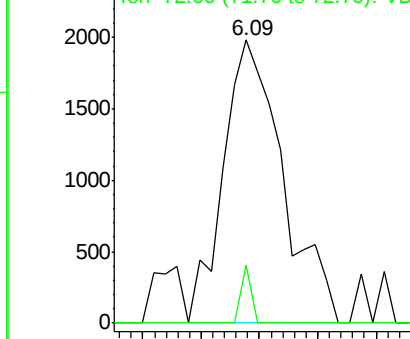
Ion Ratio Lower Upper

43 100

72 20.6 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: 1.490 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.13 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

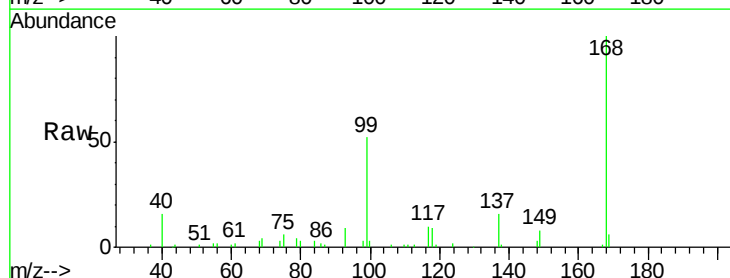
Tgt Ion: 56 Resp: 6016

Ion Ratio Lower Upper

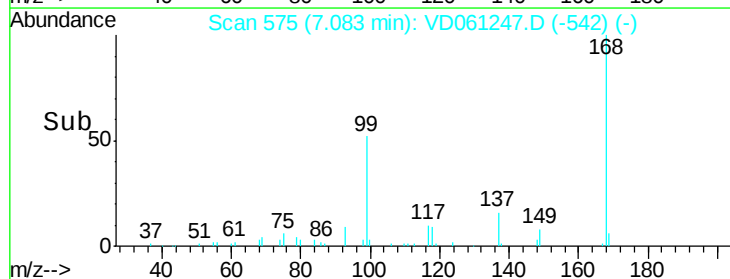
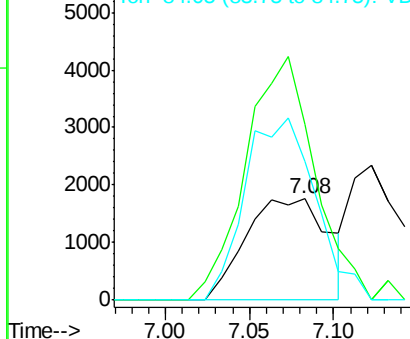
56 100

69 173.2 24.0 36.0#

84 137.0 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: 7.48 min Scan# 615

Delta R.T. 0.03 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

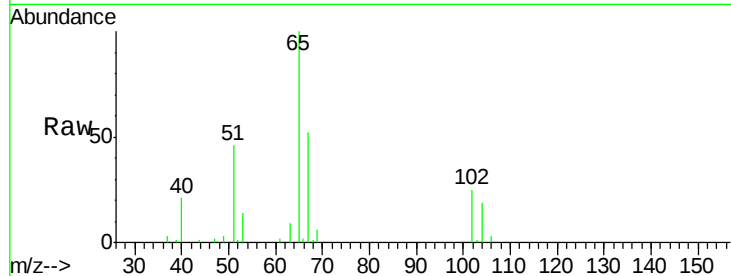
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 146349

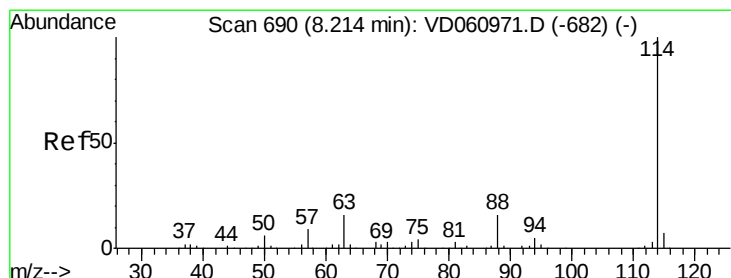
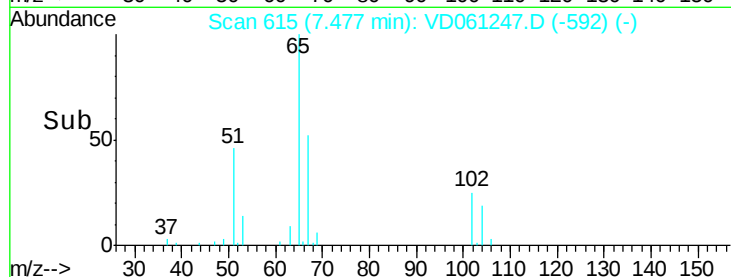
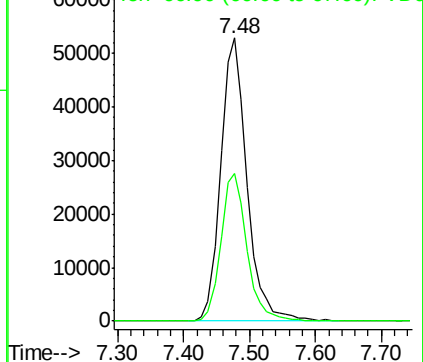
Ion Ratio Lower Upper

65 100

67 52.3 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: 8.23 min Scan# 692

Delta R.T. 0.02 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

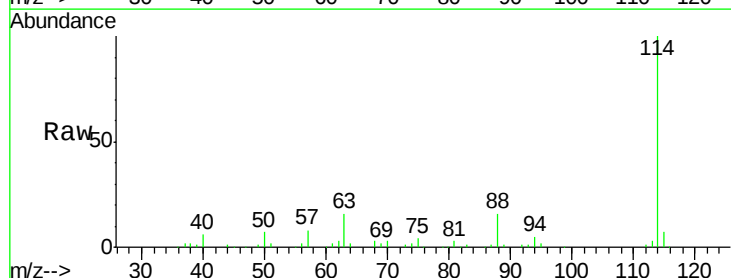
Tgt Ion: 114 Resp: 482464

Ion Ratio Lower Upper

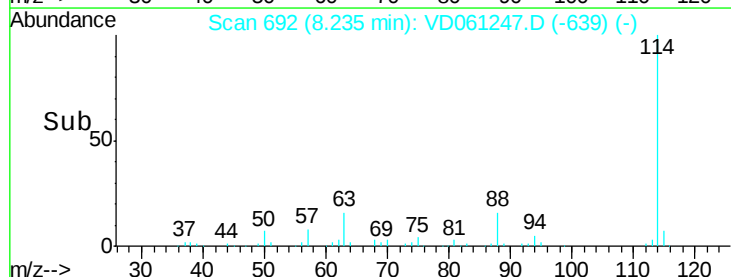
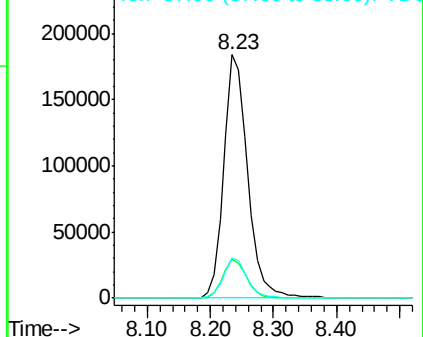
114 100

63 15.8 0.0 31.4

88 16.3 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

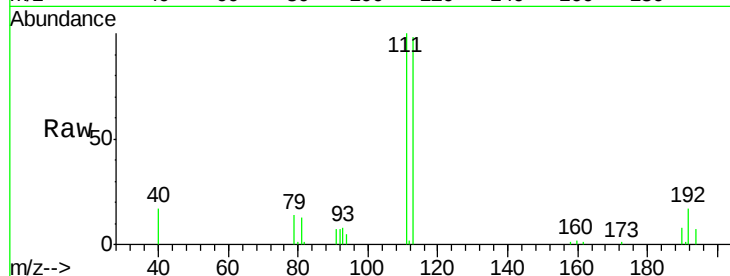




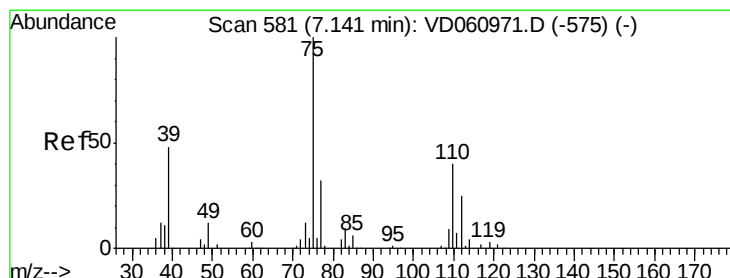
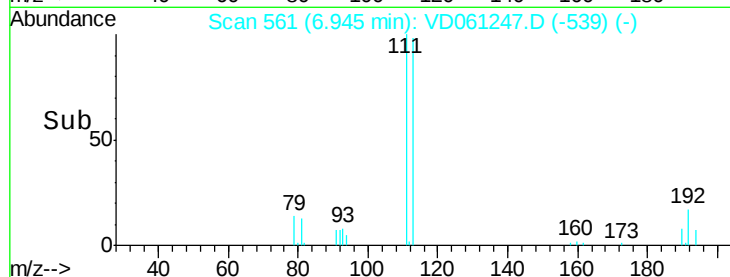
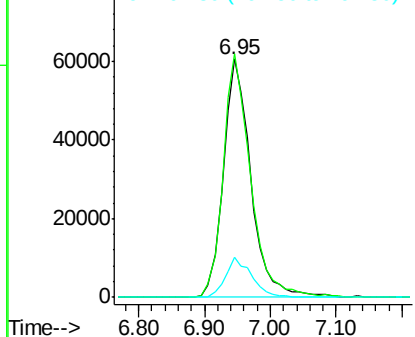
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.02 min
 Lab File: VD061247.D
 Acq: 21 Mar 2019 16:21

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	84.2	126.4
192	17.0	13.1	19.7

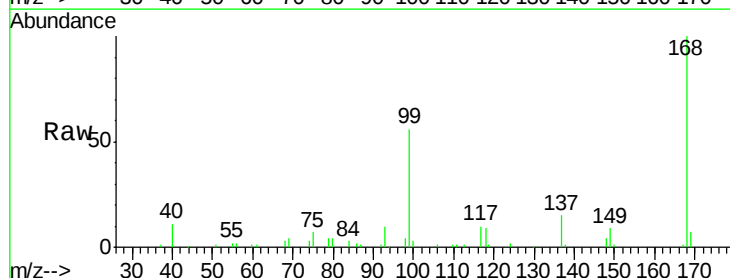


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

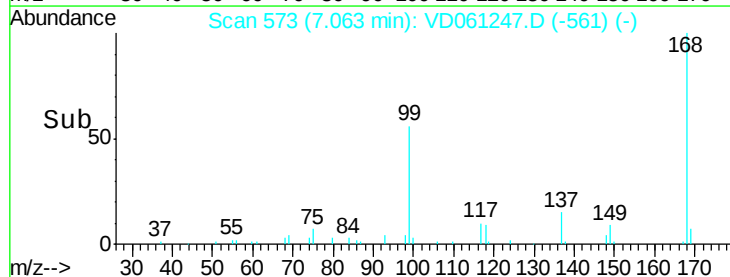
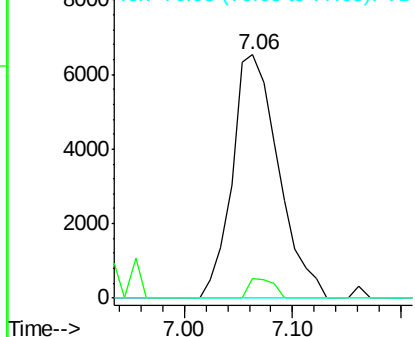


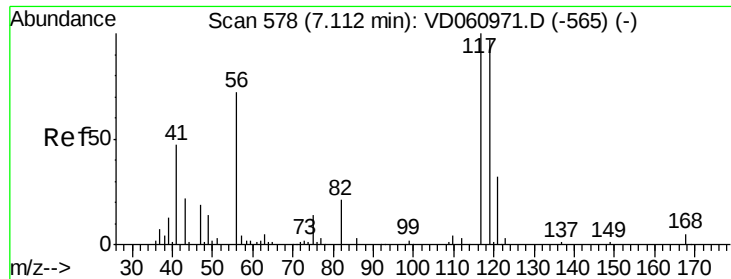
#36
 1,1-Dichloropropene
 Concen: 4.687 ug/l
 RT: 7.06 min Scan# 573
 Delta R.T. -0.08 min
 Lab File: VD061247.D
 Acq: 21 Mar 2019 16:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	19.7	59.1#
77	0.0	24.7	37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC

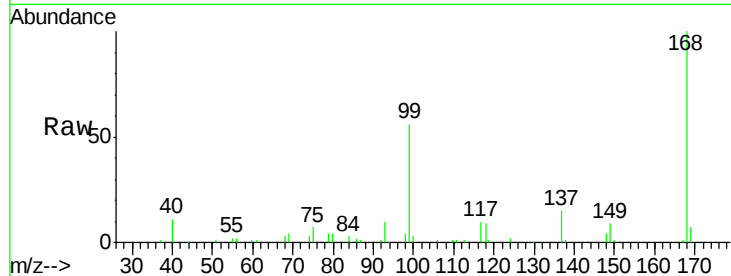




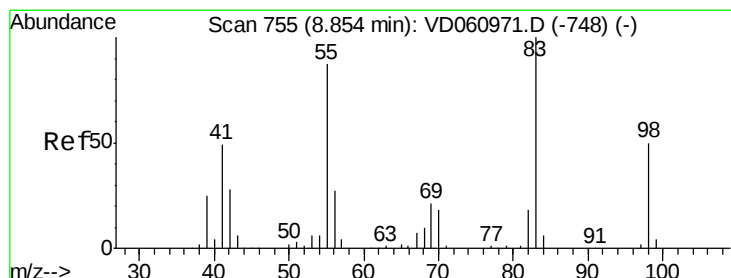
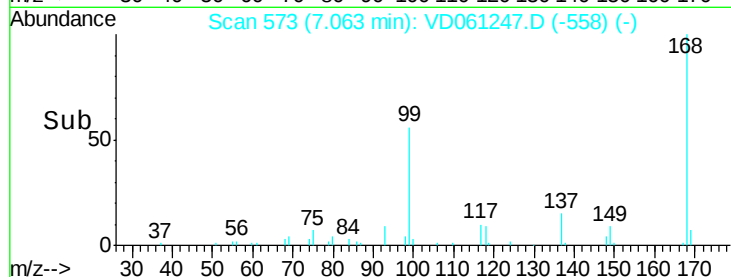
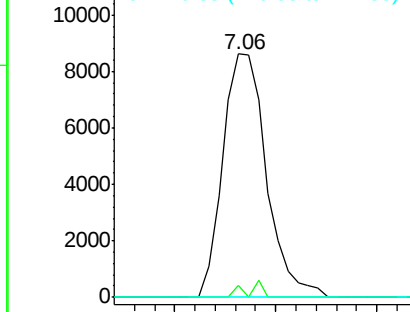
#38
Carbon Tetrachloride
Concen: 5.647 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.05 min
Lab File: VD061247.D
Acq: 21 Mar 2019 16:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 25871
Ion Ratio Lower Upper
117 100
119 5.1 77.8 116.8#
121 0.0 25.3 37.9#

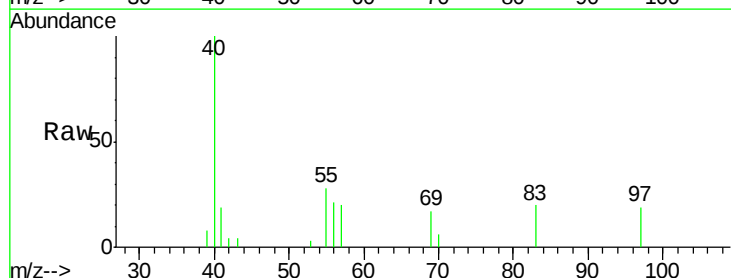


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

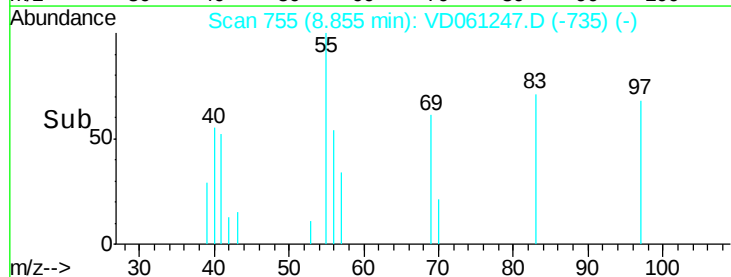
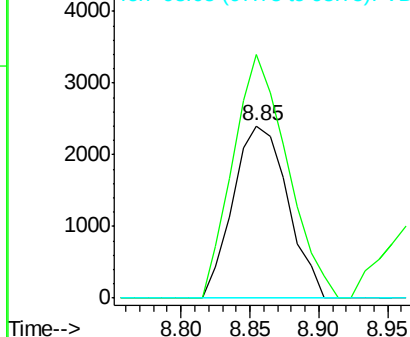


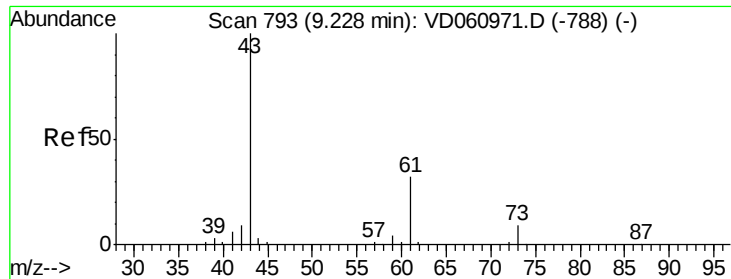
#39
Methylcyclohexane
Concen: 1.534 ug/l
RT: 8.85 min Scan# 755
Delta R.T. 0.00 min
Lab File: VD061247.D
Acq: 21 Mar 2019 16:21

Tgt Ion: 83 Resp: 6617
Ion Ratio Lower Upper
83 100
55 141.3 69.6 104.4#
98 0.0 40.0 60.0#



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC





#43

Isopropyl Acetate

Concen: 3.543 ug/l

RT: 9.30 min Scan# 800

Delta R.T. 0.07 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

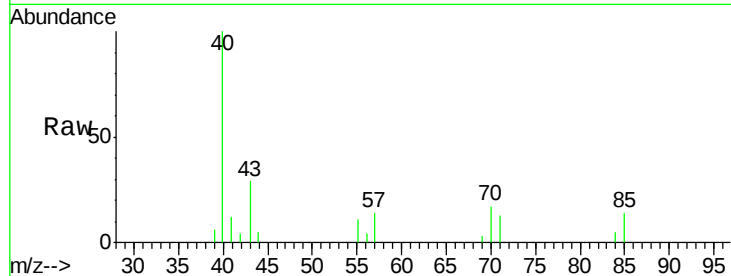
Tot Ion: 43 Resp: 9577

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

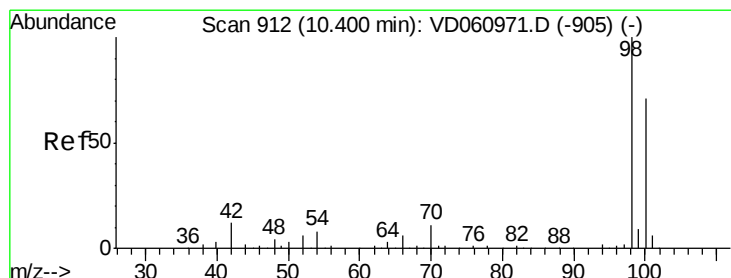
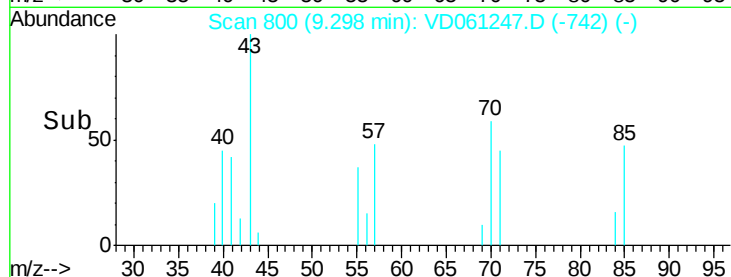
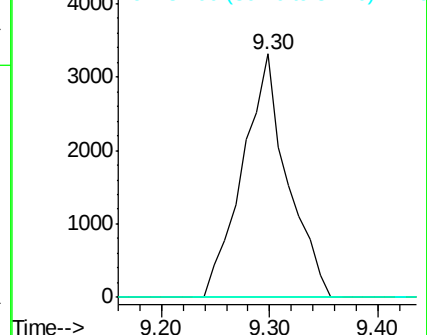
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD061247.D

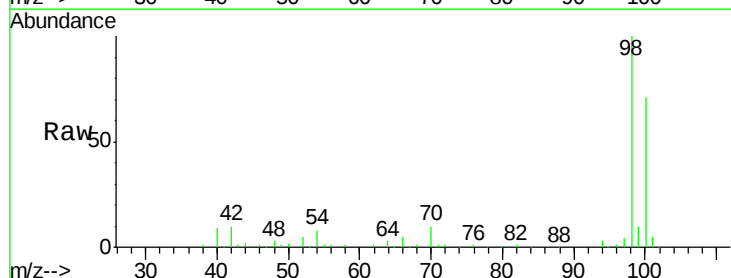
Acq: 21 Mar 2019 16:21

Tgt Ion: 98 Resp: 390423

Ion Ratio Lower Upper

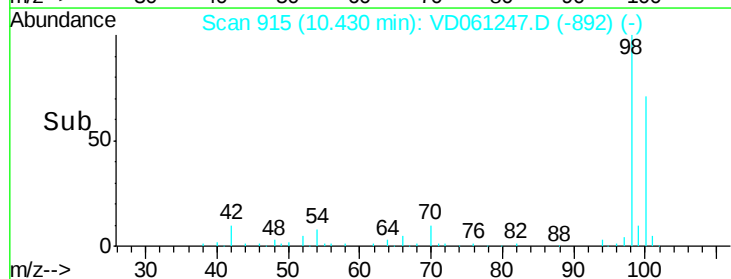
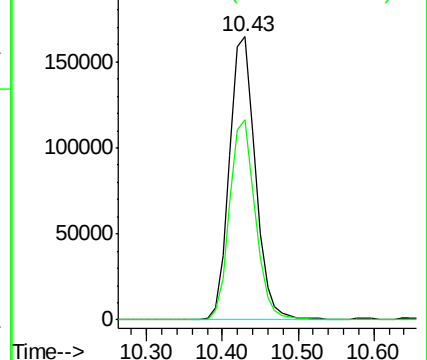
98 100

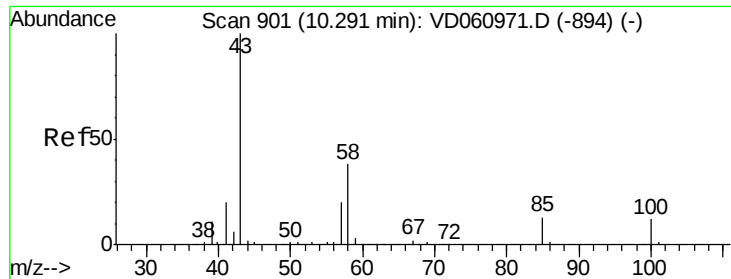
100 70.7 57.4 86.2



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: 1.198 ug/l

RT: 10.32 min Scan# 904

Delta R.T. 0.03 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

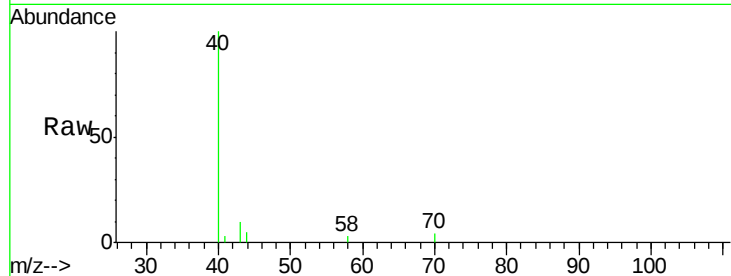
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 1984

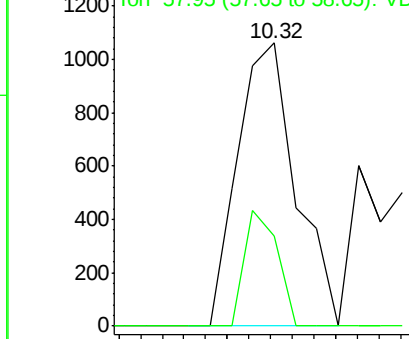
Ion Ratio Lower Upper

43 100

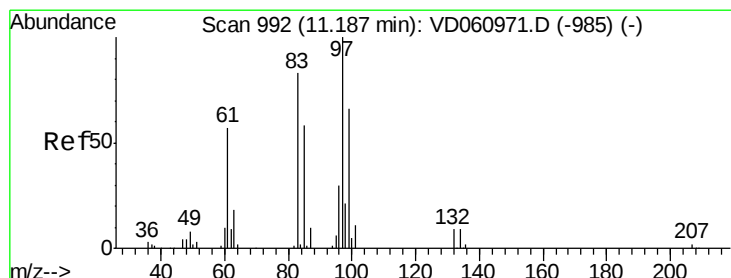
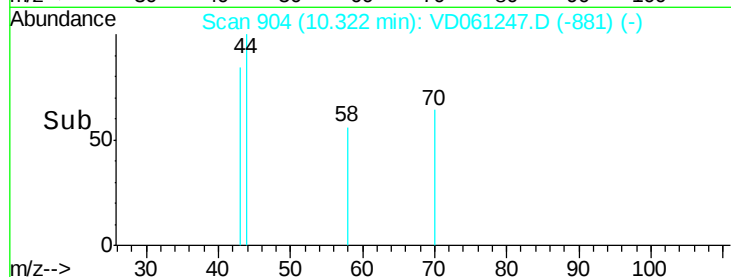
58 31.8 30.2 45.2



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



Time--> 10.25 10.30 10.35



#55

1,1,2-Trichloroethane

Concen: 8.052 ug/l

RT: 11.11 min Scan# 984

Delta R.T. -0.08 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Tgt Ion: 97 Resp: 17327

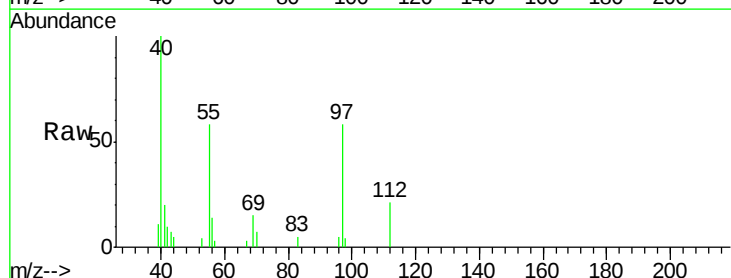
Ion Ratio Lower Upper

97 100

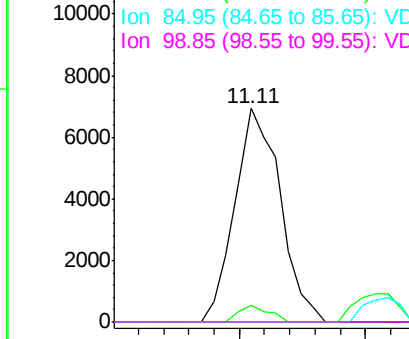
83 7.9 66.6 100.0#

85 0.0 46.4 69.6#

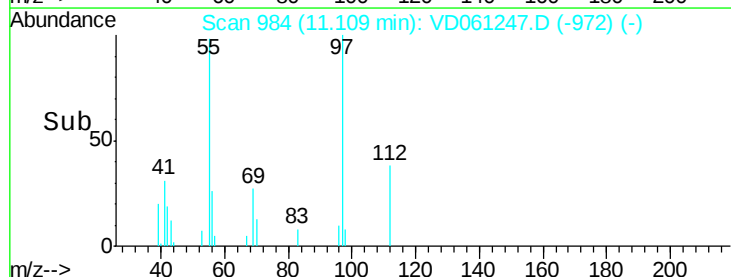
99 0.0 52.4 78.6#

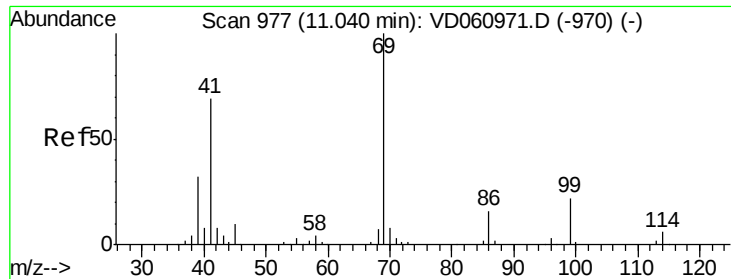


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC



Time--> 11.10 11.20





#56

Ethyl methacrylate

Concen: 1.824 ug/l

RT: 11.11 min Scan# 984

Delta R.T. 0.07 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Instrument :

MSVOA_D

ClientSampled :

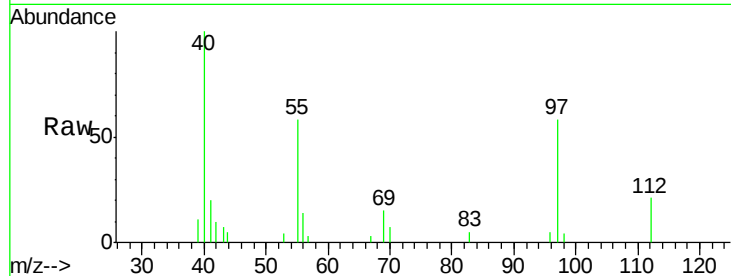
Tot Ion: 69 Resp: 4109

Ion Ratio Lower Upper

69 100

41 134.2 55.5 83.3#

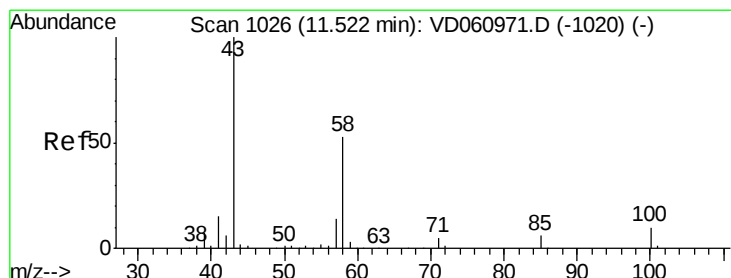
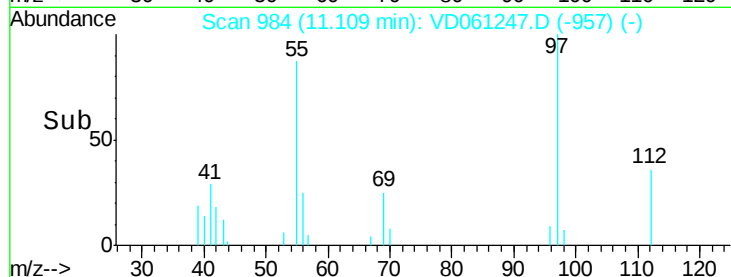
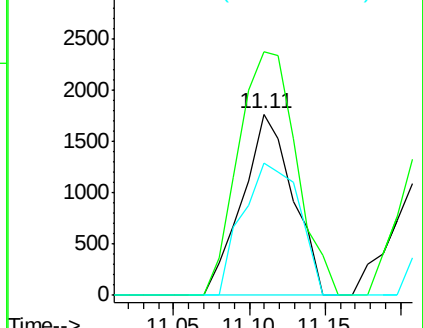
39 73.1 26.2 39.2#



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: 1.625 ug/l

RT: 11.54 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VD061247.D

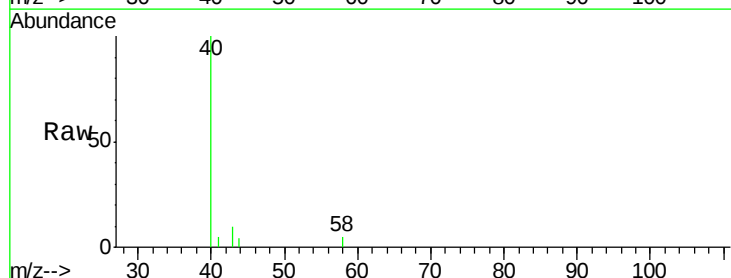
Acq: 21 Mar 2019 16:21

Tgt Ion: 43 Resp: 1968

Ion Ratio Lower Upper

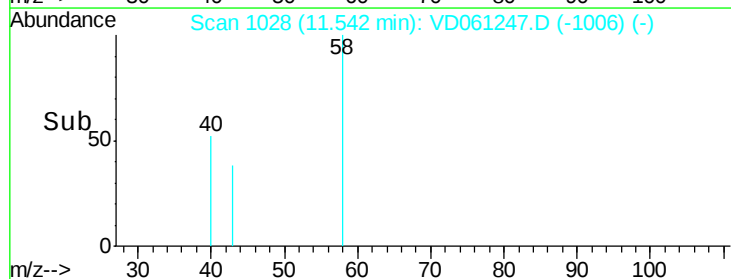
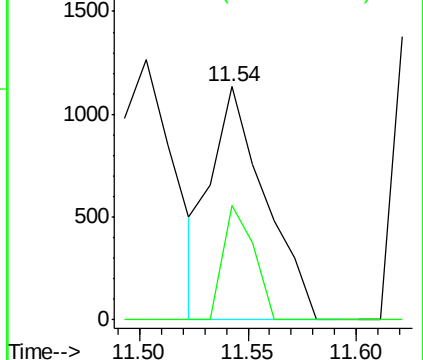
43 100

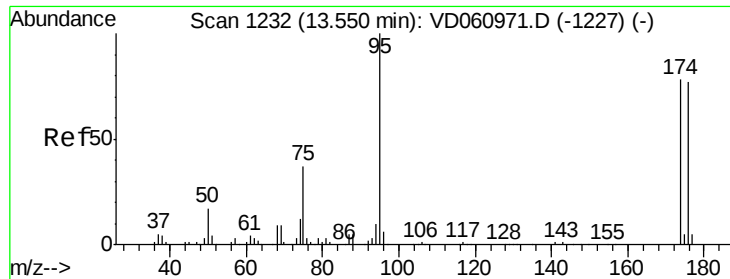
58 49.3 26.5 79.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

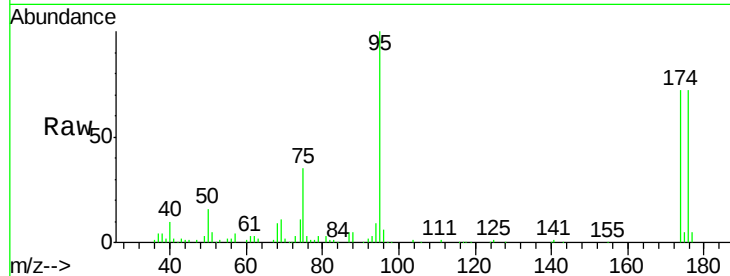




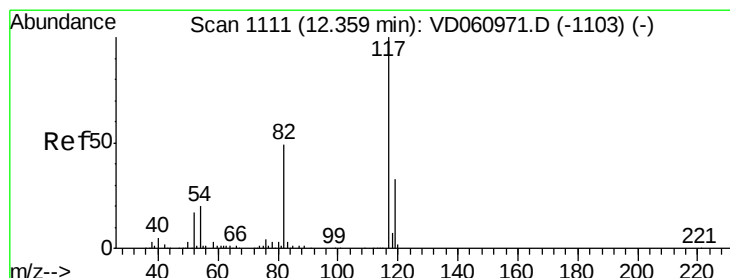
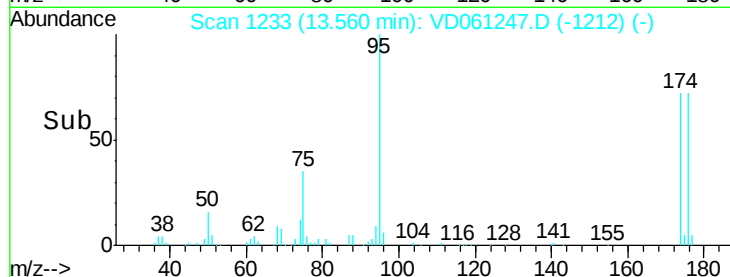
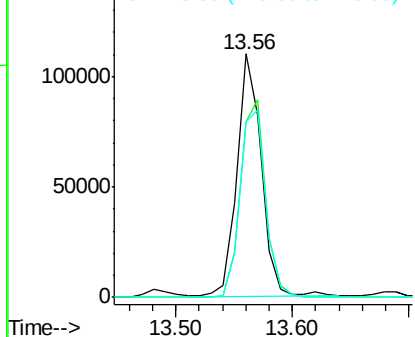
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061247.D
Acq: 21 Mar 2019 16:21

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 95 Resp: 160082
Ion Ratio Lower Upper
95 100
174 72.0 0.0 155.6
176 72.0 0.0 153.8

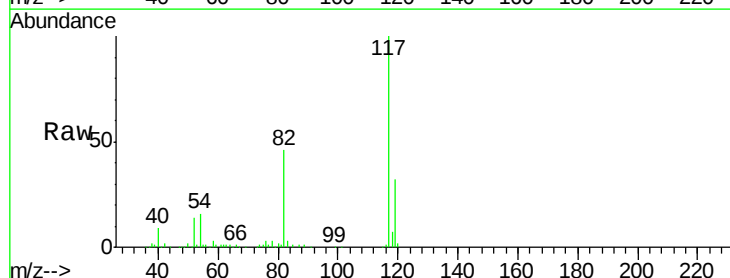


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

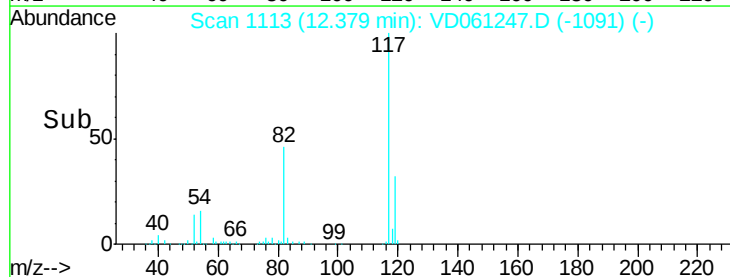
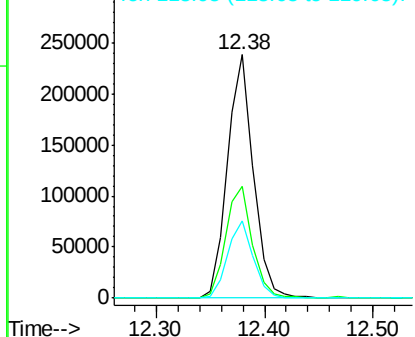


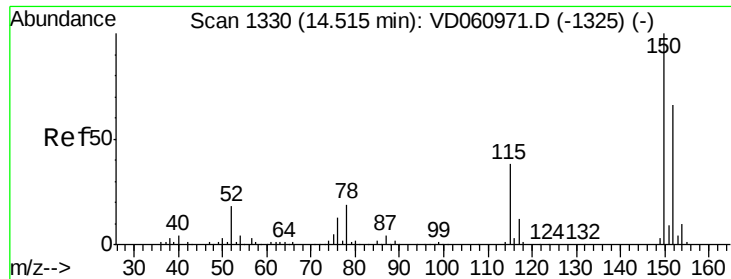
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061247.D
Acq: 21 Mar 2019 16:21

Tgt Ion: 117 Resp: 397029
Ion Ratio Lower Upper
117 100
82 46.0 38.9 58.3
119 31.9 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: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

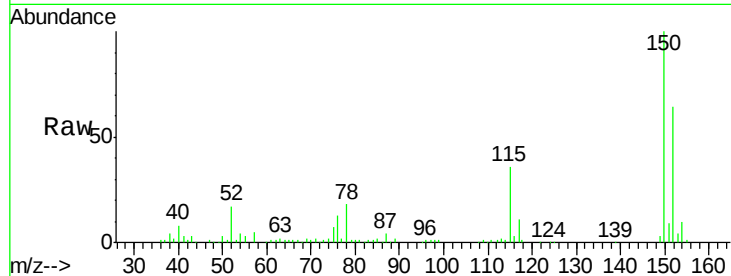
Tot Ion:152 Resp: 165483

Ion Ratio Lower Upper

152 100

115 56.0 28.6 85.9

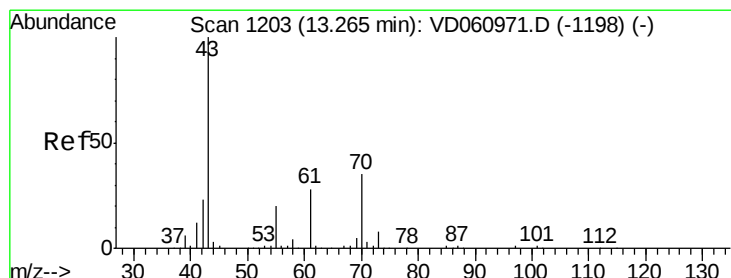
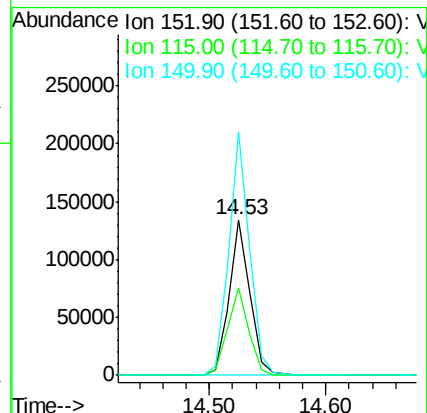
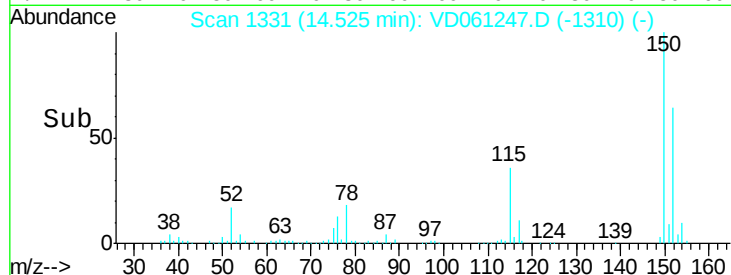
150 156.5 0.0 310.6



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-ethyl acetate

Concen: 3.271 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Tgt Ion: 43 Resp: 10984

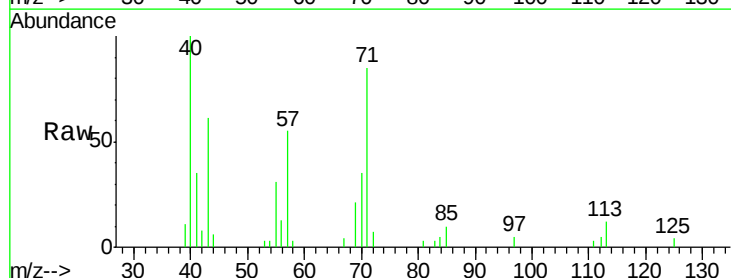
Ion Ratio Lower Upper

43 100

70 57.2 27.7 41.5#

55 50.1 16.2 24.2#

61 0.0 22.3 33.5#

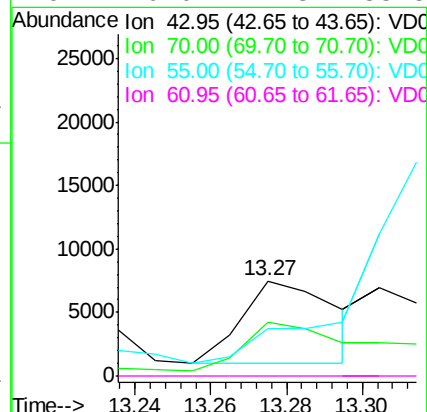
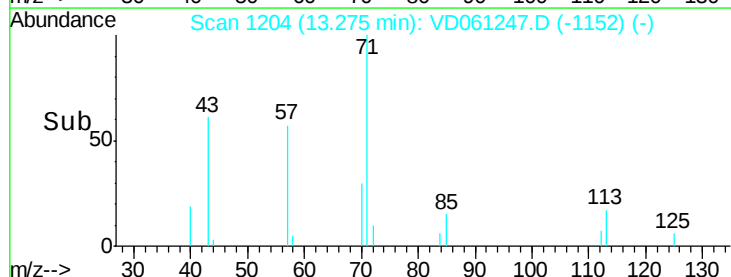


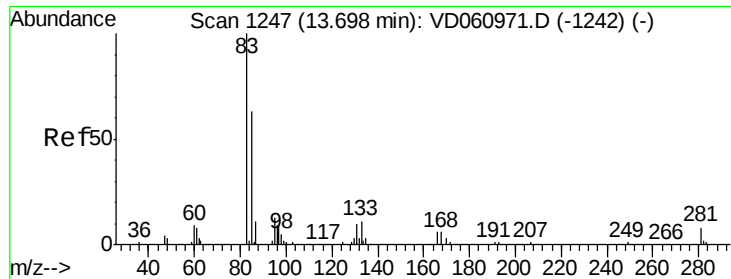
Abundance Ion 42.95 (42.65 to 43.65): V

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: 3.412 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

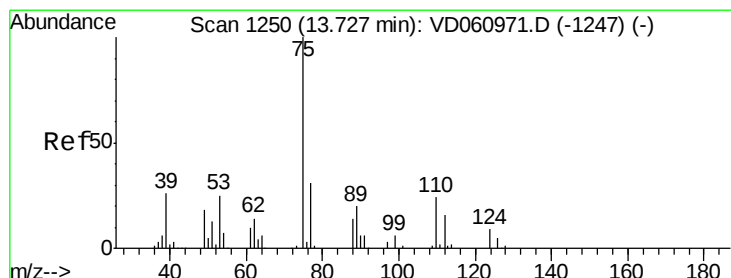
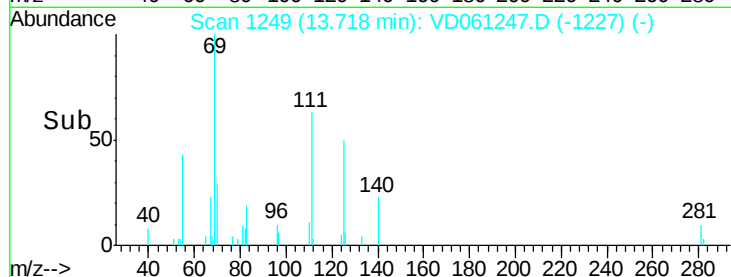
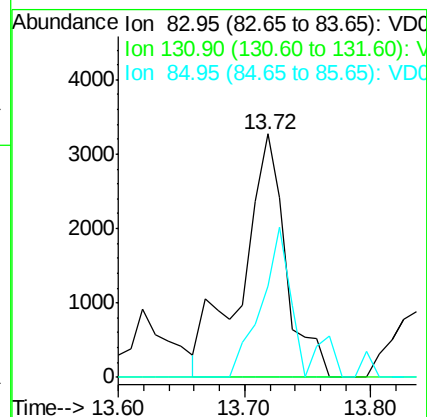
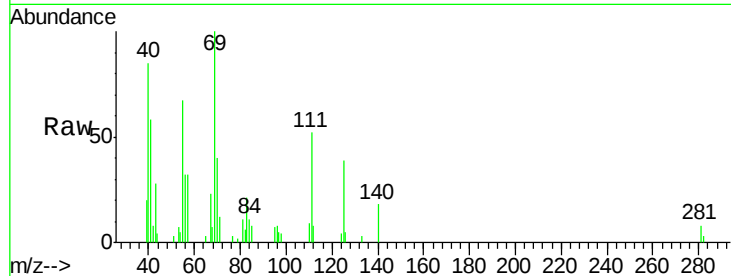
Tot Ion: 83 Resp: 7940

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 37.5 31.5 94.5



#76

1,2,3-Trichloropropane

Concen: 18.250 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD061247.D

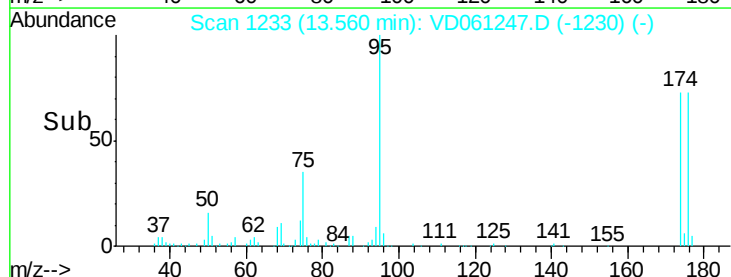
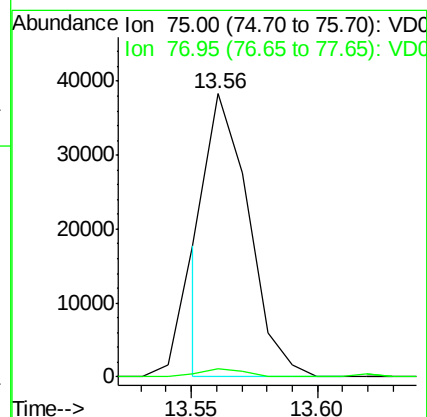
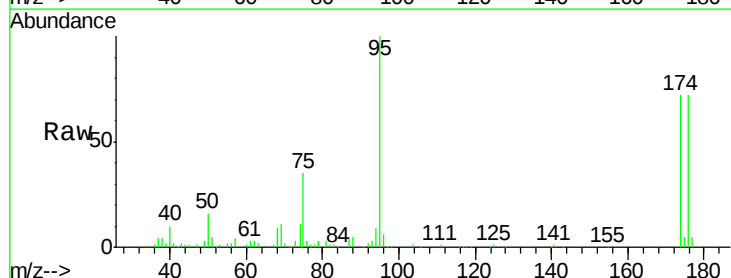
Acq: 21 Mar 2019 16:21

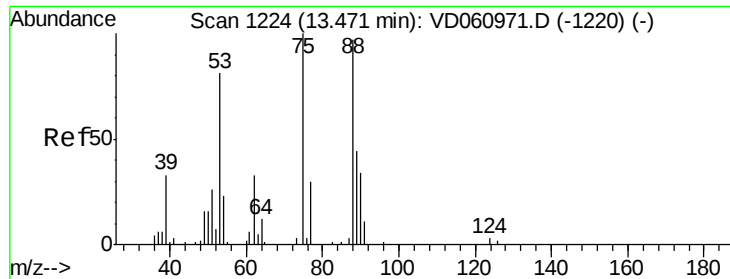
Tgt Ion: 75 Resp: 43448

Ion Ratio Lower Upper

75 100

77 2.7 16.6 49.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 78.208 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

Instrument :

MSVOA_D

ClientSampleId :

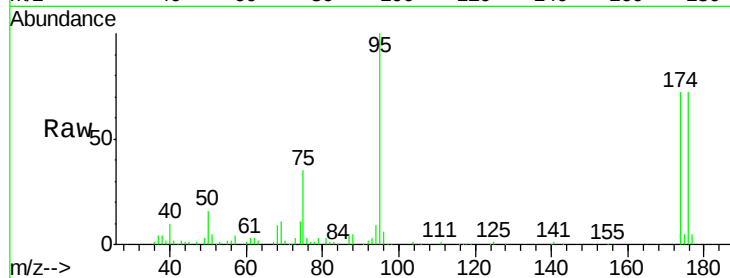
Tot Ion: 75 Resp: 54894

Ion Ratio Lower Upper

75 100

53 1.5 64.4 96.6#

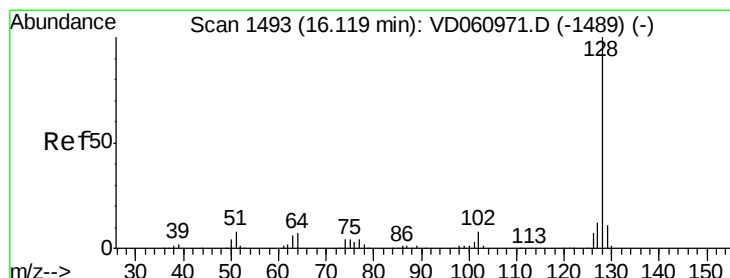
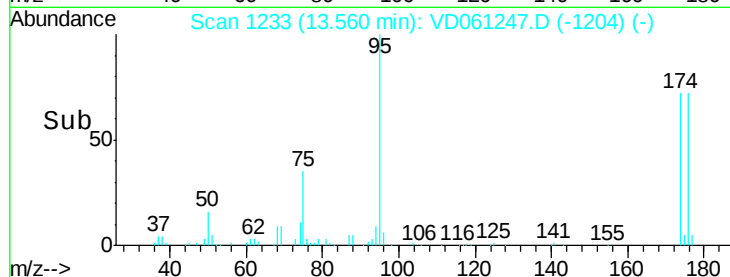
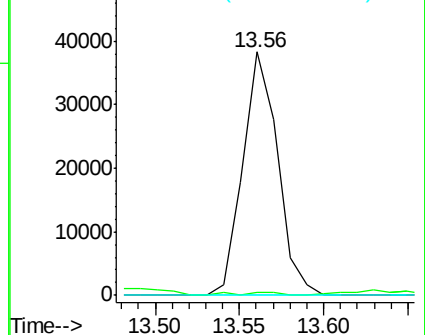
89 0.0 34.8 52.2#



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: 1.265 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD061247.D

Acq: 21 Mar 2019 16:21

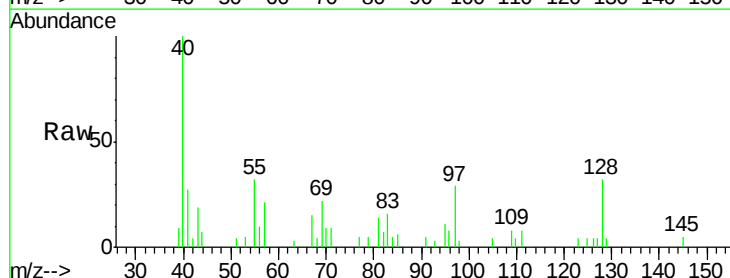
Tgt Ion: 128 Resp: 4040

Ion Ratio Lower Upper

128 100

127 13.1 9.8 14.8

129 13.3 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

