

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040119\
 Data File : VD061469.D
 Acq On : 1 Apr 2019 15:31
 Operator : VA/AP
 Sample : K2183-02
 Misc : 4.56g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 02 01:18:17 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	7.04	168	509967	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	875563	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	751989	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	279112	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	220793	50.68	ug/l	0.02
Spiked Amount	50.000		Recovery	=	101.36%	
35) Dibromofluoromethane	6.92	113	6629	0.99	ug/l	0.02
Spiked Amount	50.000		Recovery	=	1.98%	
50) Toluene-d8	10.42	98	748857	46.66	ug/l	0.03
Spiked Amount	50.000		Recovery	=	93.32%	
62) 4-Bromofluorobenzene	13.57	95	282484	45.90	ug/l	0.02
Spiked Amount	50.000		Recovery	=	91.80%	

Target Compounds

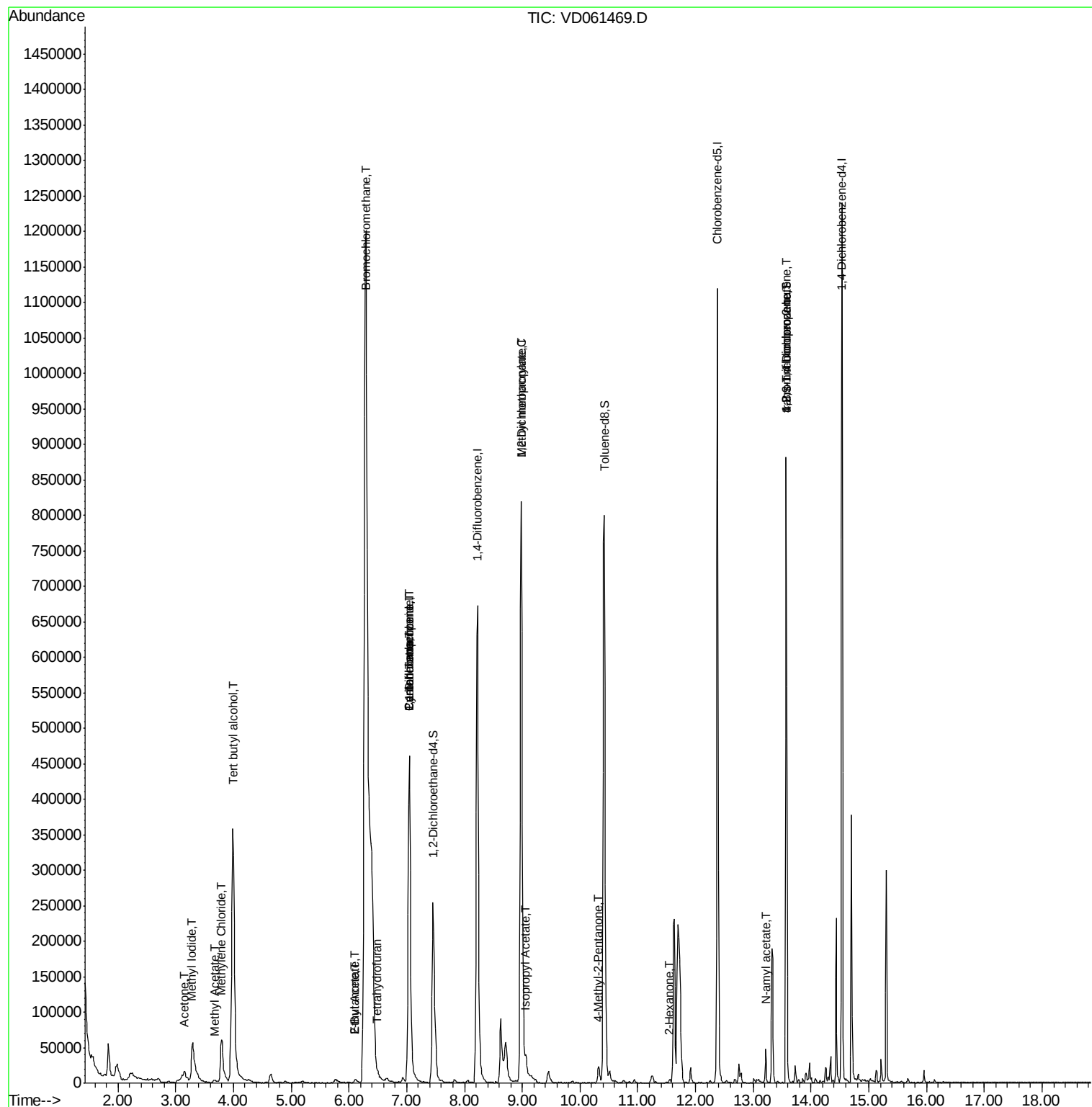
						Qvalue
10) Methyl Iodide	3.27	142	8755	4.307	ug/l #	95
11) Tert butyl alcohol	3.99	59	349284	1287.449	ug/l #	80
16) Acetone	3.13	43	4084	3.647	ug/l	92
18) Methyl Acetate	3.68	43	4939	2.098	ug/l #	55
20) Methylene Chloride	3.79	84	55073	7.133	ug/l	93
25) 2-Butanone	6.11	43	15005	10.652	ug/l	99
28) Bromochloromethane	6.29	49	10293	2.686	ug/l #	1
29) Tetrahydrofuran	6.49	42	3810	5.580	ug/l #	70
31) Cyclohexane	7.03	56	9162	1.221	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	38738	5.069	ug/l #	44
37) Ethyl Acetate	6.11	43	15005	4.591	ug/l #	65
38) Carbon Tetrachloride	7.04	117	48894	5.568	ug/l #	13
43) Isopropyl Acetate	9.06	43	4766	1.002	ug/l #	1
45) 1,2-Dichloropropane	8.98	63	25542	5.252	ug/l #	43
48) Methyl methacrylate	8.98	41	130376	49.680	ug/l #	48
51) 4-Methyl-2-Pentanone	10.32	43	26481	9.154	ug/l	99
59) 2-Hexanone	11.56	43	4476	2.135	ug/l	98
74) N-amyl acetate	13.22	43	31057	5.739	ug/l #	49
76) 1,2,3-Trichloropropane	13.57	75	103360	25.636	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.57	75	103415	84.124	ug/l #	18

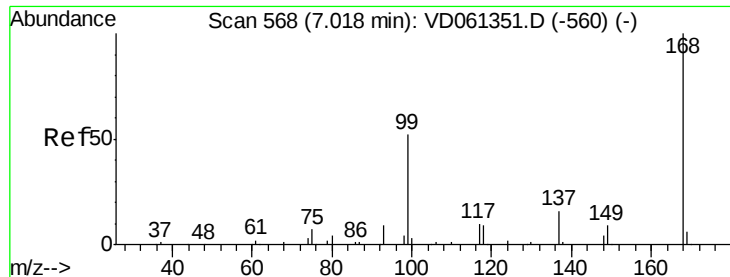
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

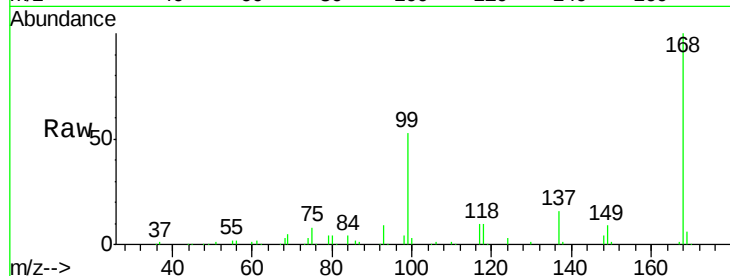
ClientSampleId :

Tot Ion:168 Resp: 509967

Ion Ratio Lower Upper

168 100

99 53.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

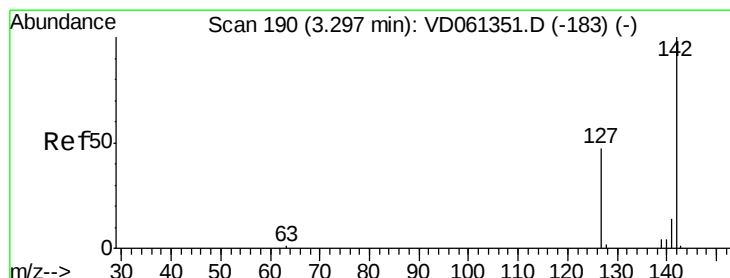
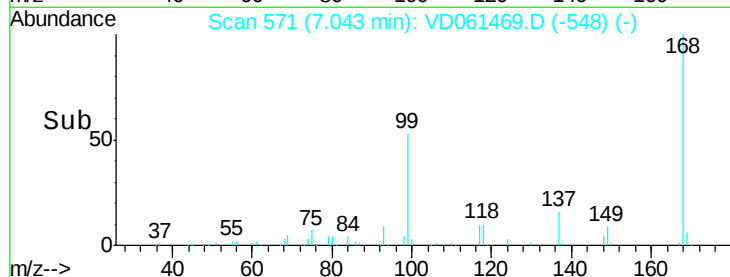
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 4.307 ug/l

RT: 3.27 min Scan# 188

Delta R.T. -0.02 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

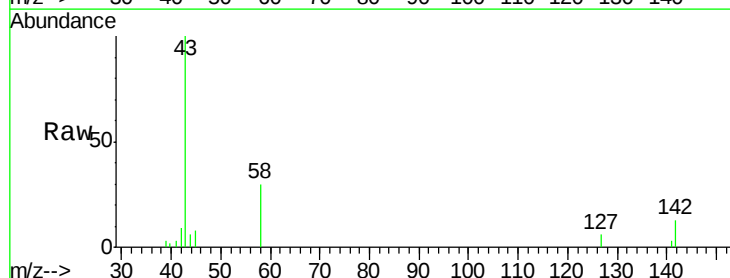
Tgt Ion:142 Resp: 8755

Ion Ratio Lower Upper

142 100

127 48.6 37.7 56.5

141 21.1 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

3.27

2500

2000

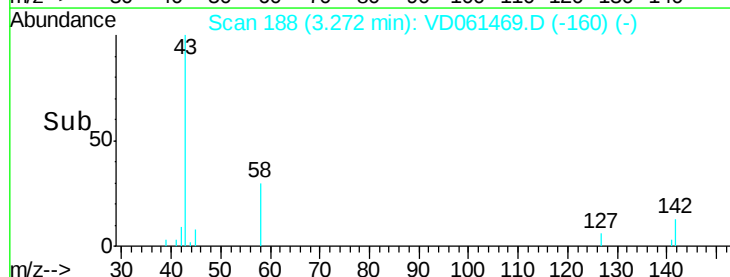
1500

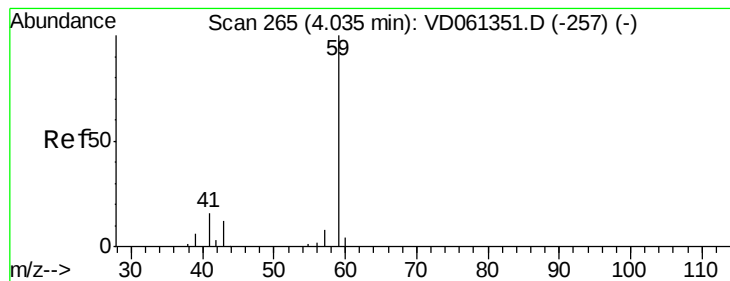
1000

500

0

Time-->



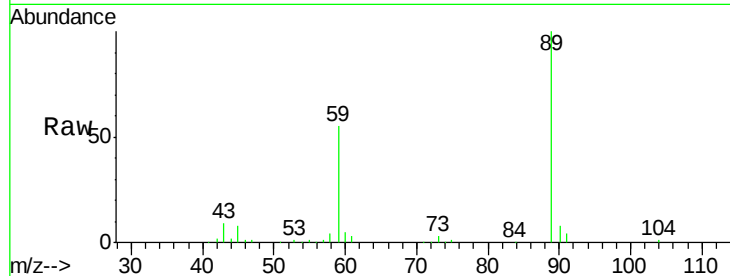


#11

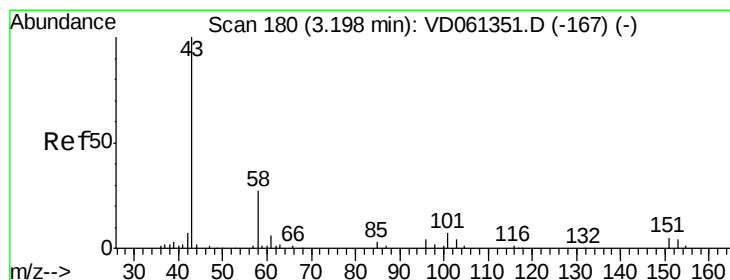
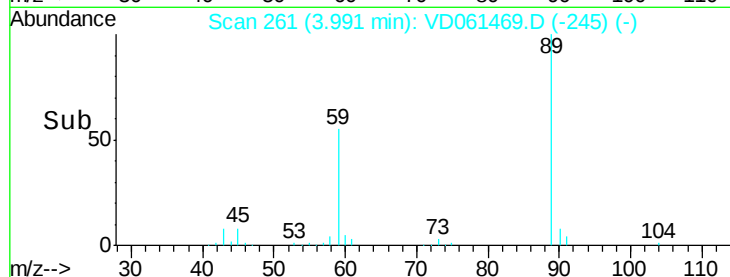
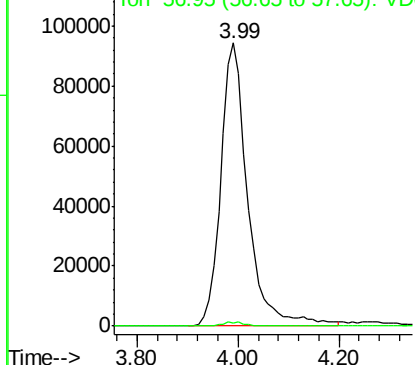
Tert butyl alcohol
 Concen: 1287.449 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.04 min
 Lab File: VD061469.D
 Acq: 1 Apr 2019 15:31

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 59 Resp: 349284
 Ion Ratio Lower Upper
 59 100
 57 1.1 6.7 10.1#



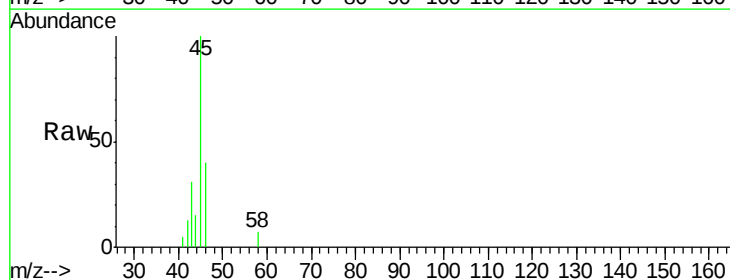
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



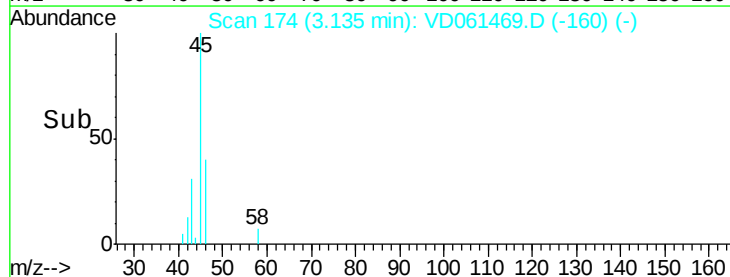
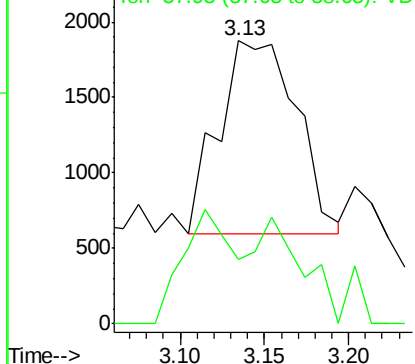
#16

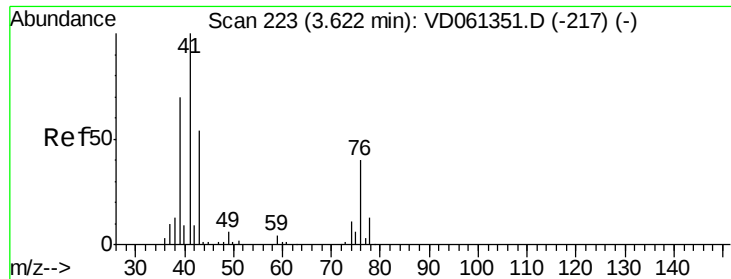
Acetone
 Concen: 3.647 ug/l
 RT: 3.13 min Scan# 174
 Delta R.T. -0.06 min
 Lab File: VD061469.D
 Acq: 1 Apr 2019 15:31

Tgt Ion: 43 Resp: 4084
 Ion Ratio Lower Upper
 43 100
 58 22.6 21.5 32.3



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

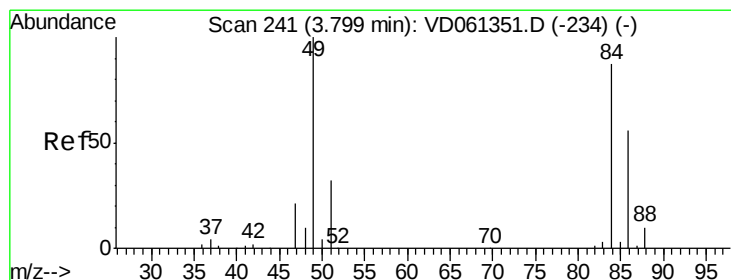
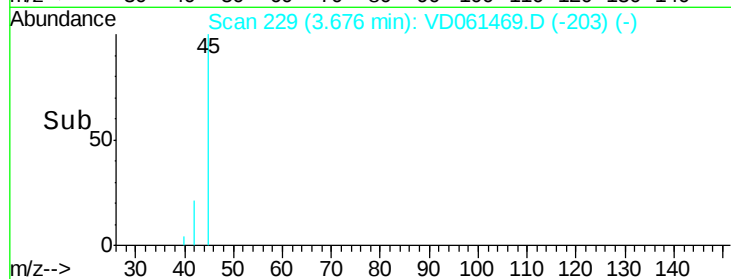
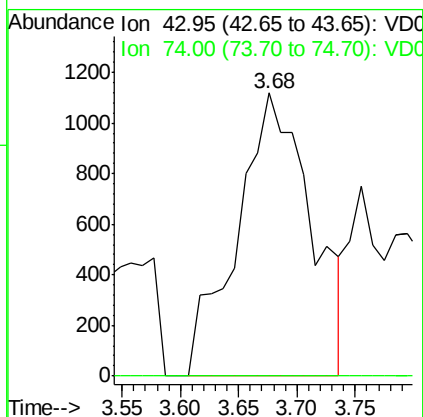
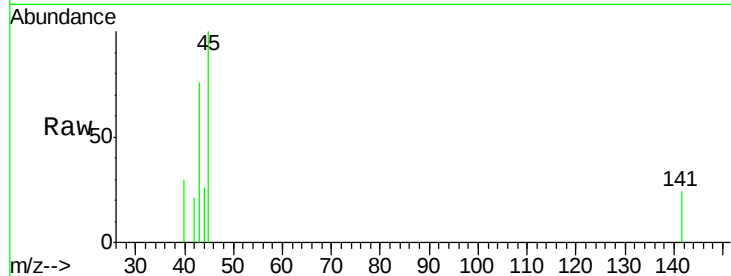




#18
Methyl Acetate
Concen: 2.098 ug/l
RT: 3.68 min Scan# 229
Delta R.T. 0.05 min
Lab File: VD061469.D
Acq: 1 Apr 2019 15:31

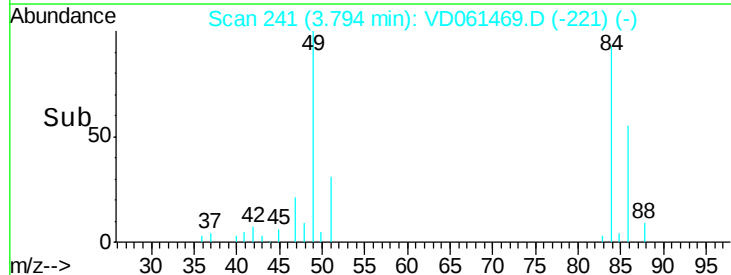
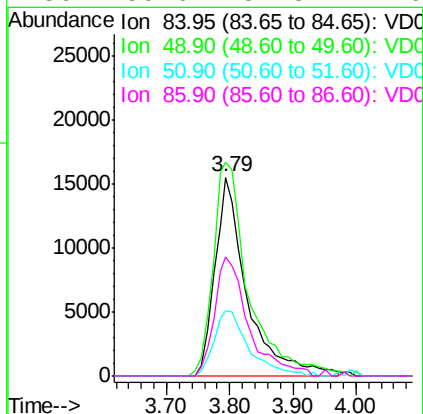
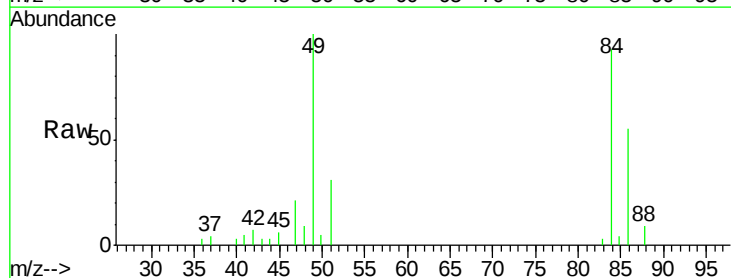
Instrument :
MSVOA_D
ClientSampled :

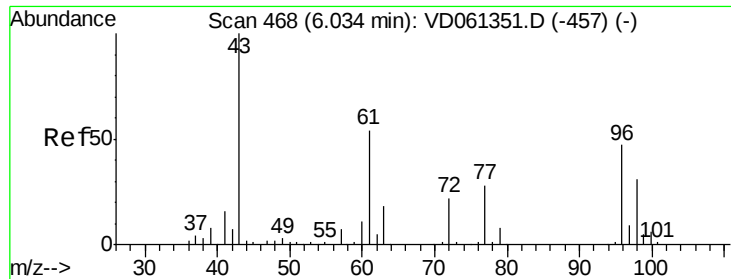
Tot Ion: 43 Resp: 4939
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 7.133 ug/l
RT: 3.79 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD061469.D
Acq: 1 Apr 2019 15:31

Tgt Ion: 84 Resp: 55073
Ion Ratio Lower Upper
84 100
49 107.4 91.8 137.8
51 32.8 29.8 44.8
86 59.6 51.8 77.6





#25

2-Butanone

Concen: 10.652 ug/l

RT: 6.11 min Scan# 476

Delta R.T. 0.07 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

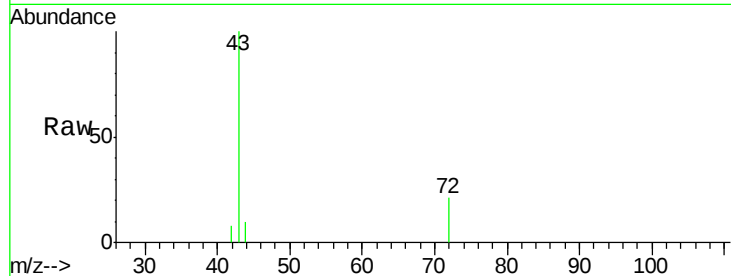
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 15005

Ion Ratio Lower Upper

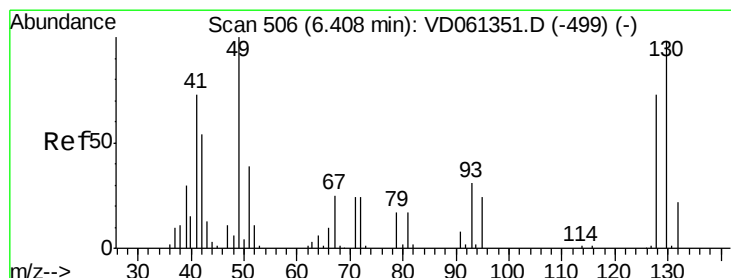
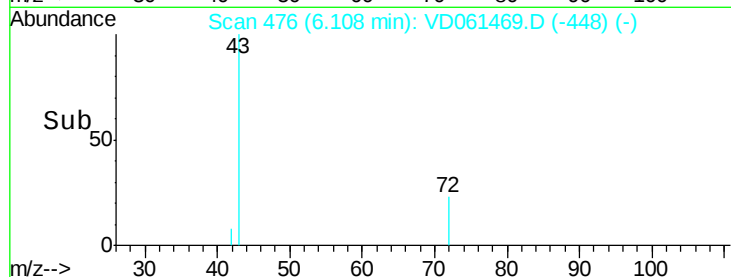
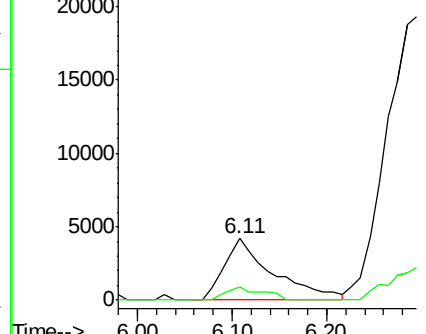
43 100

72 20.9 17.2 25.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 2.686 ug/l

RT: 6.29 min Scan# 495

Delta R.T. -0.11 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

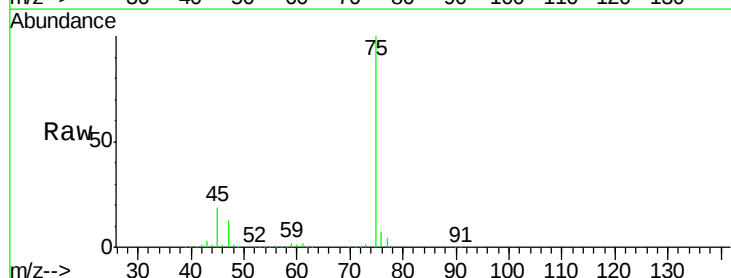
Tgt Ion: 49 Resp: 10293

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

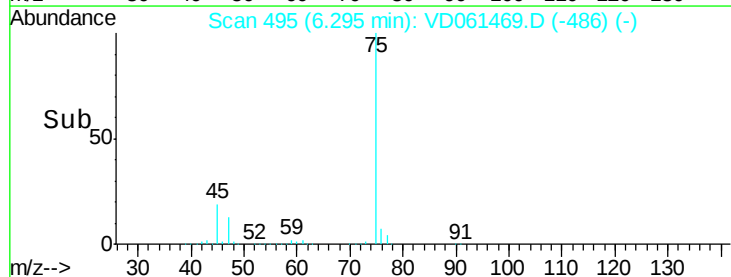
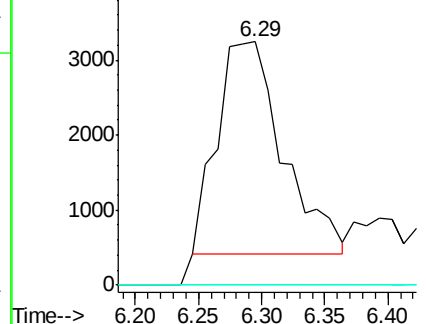
130 0.0 78.4 117.6#

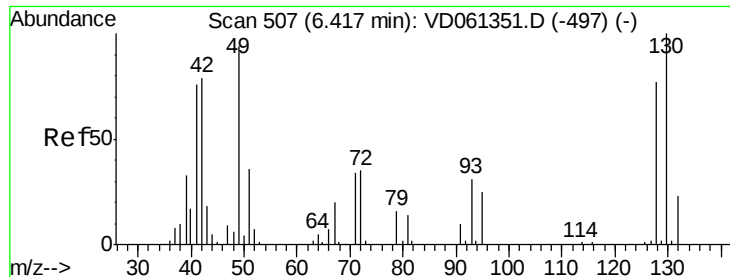


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 5.580 ug/l

RT: 6.49 min Scan# 515

Delta R.T. 0.07 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

ClientSampleId :

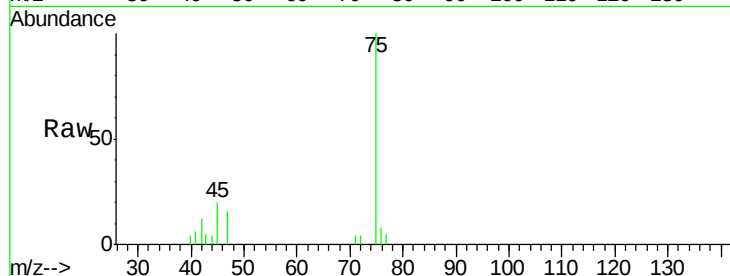
Tot Ion: 42 Resp: 3810

Ion Ratio Lower Upper

42 100

72 27.5 37.4 56.0#

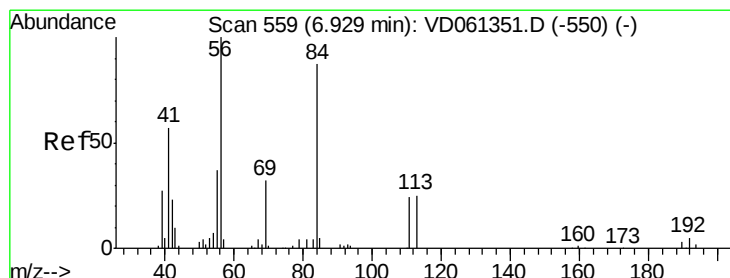
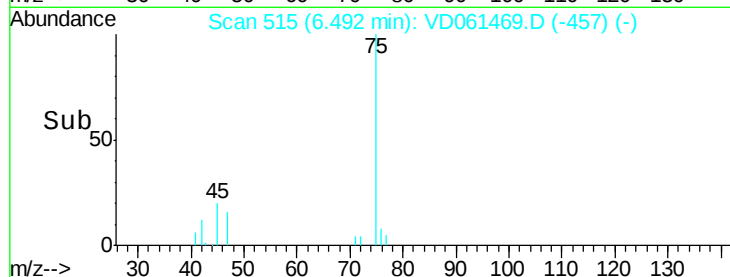
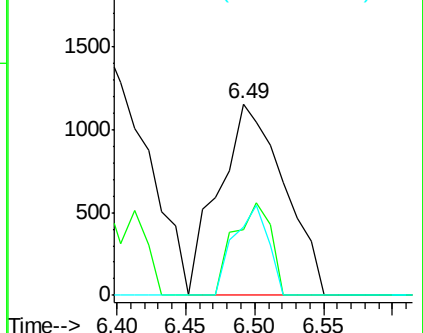
71 24.8 36.7 55.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.221 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

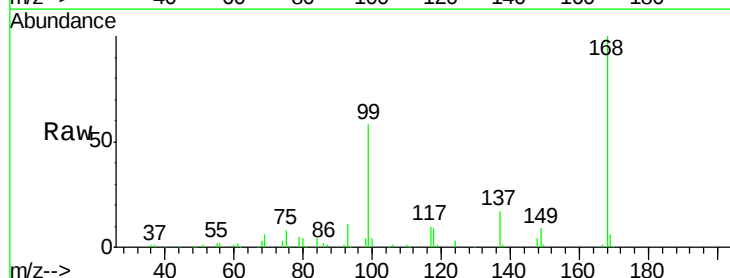
Tgt Ion: 56 Resp: 9162

Ion Ratio Lower Upper

56 100

69 247.8 25.7 38.5#

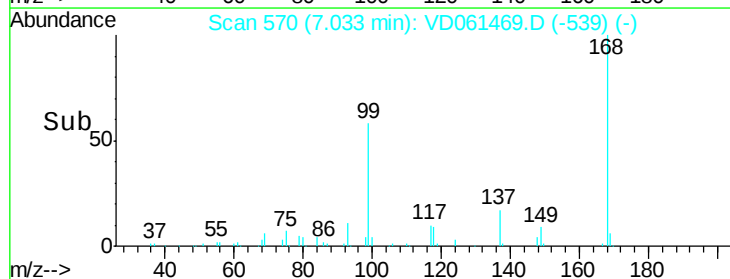
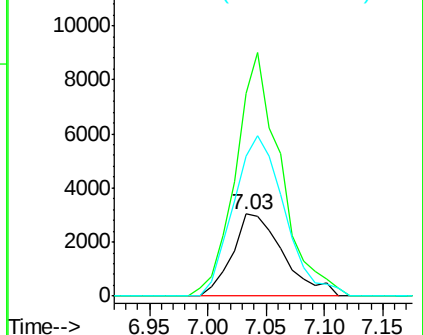
84 170.4 70.6 105.8#

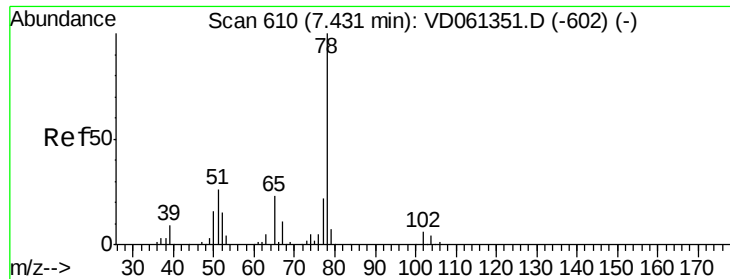


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

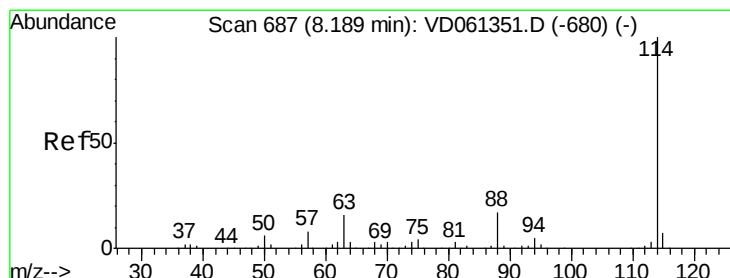
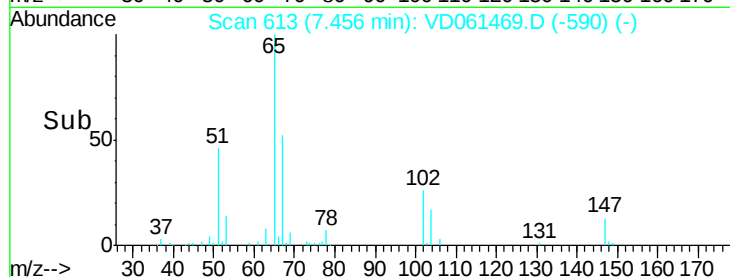
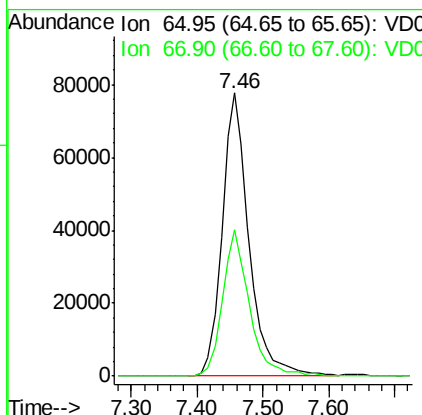
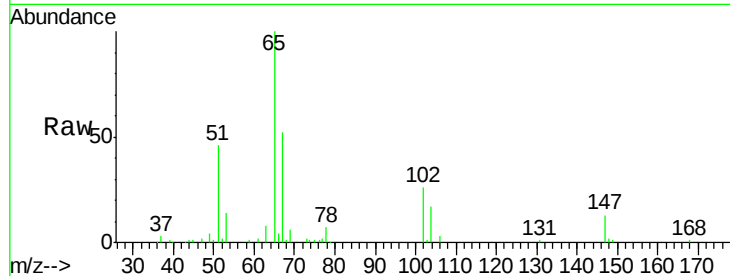




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.02 min
 Lab File: VD061469.D
 Acq: 1 Apr 2019 15:31

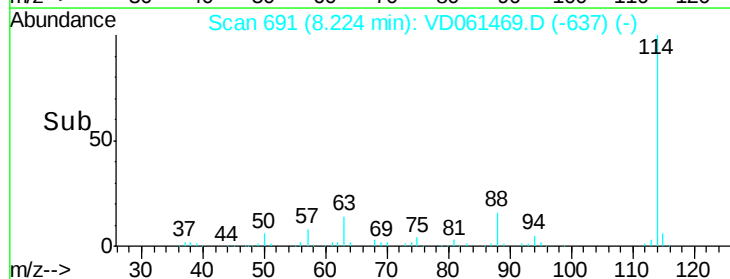
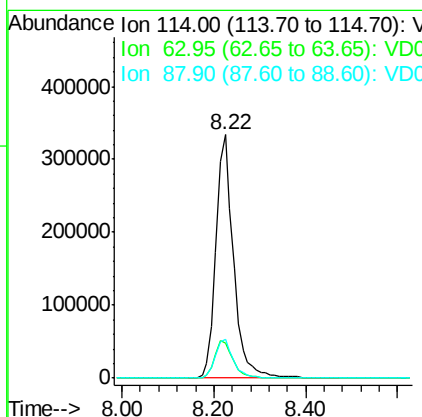
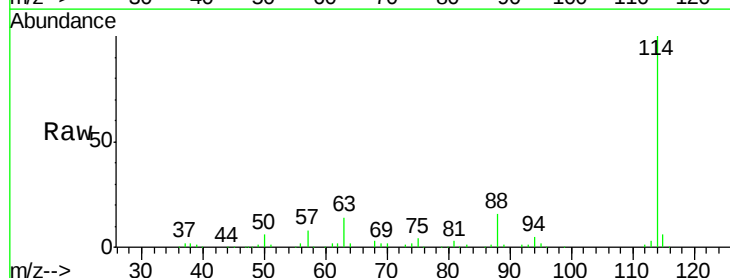
Instrument :
 MSVOA_D
 ClientSampleId :

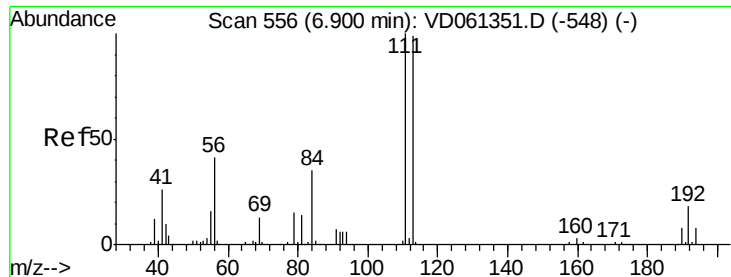
Tot Ion: 65 Resp: 220793
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.03 min
 Lab File: VD061469.D
 Acq: 1 Apr 2019 15:31

Tgt Ion:114 Resp: 875563
 Ion Ratio Lower Upper
 114 100
 63 14.2 0.0 31.6
 88 15.9 0.0 33.4

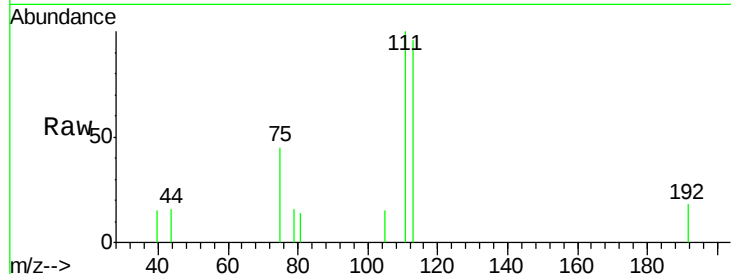




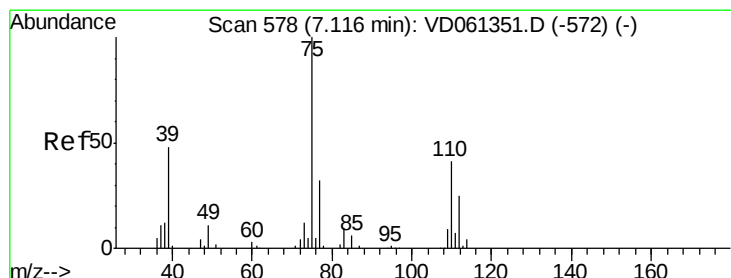
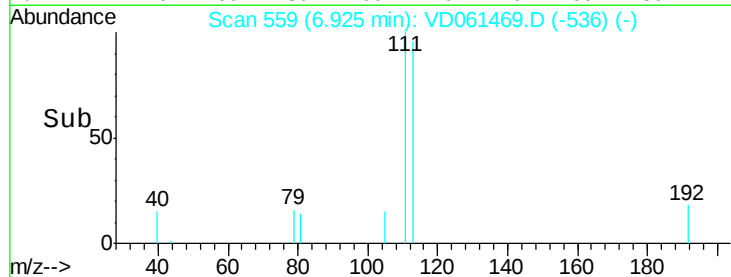
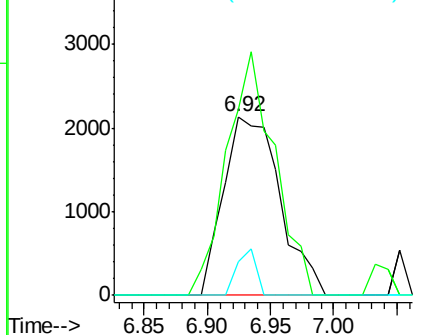
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD061469.D
 Acq: 1 Apr 2019 15:31

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 6629
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.0 121.6
 192 18.8 14.4 21.6

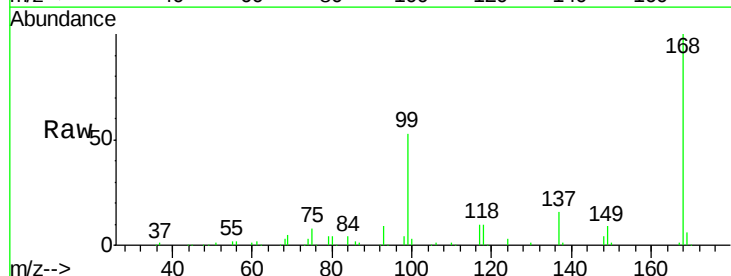


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

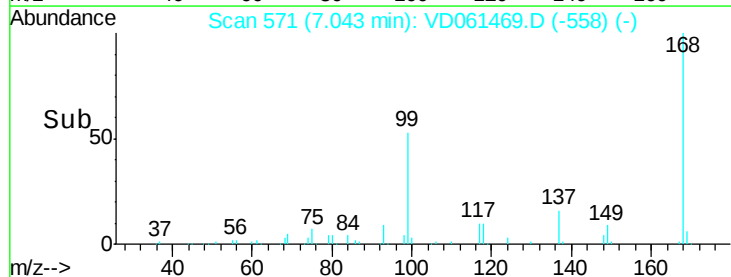
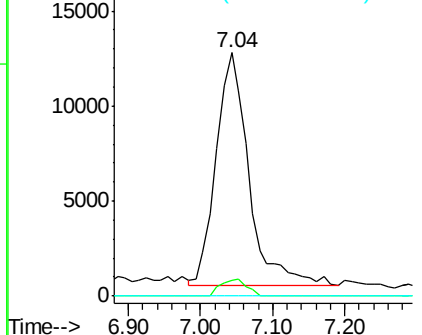


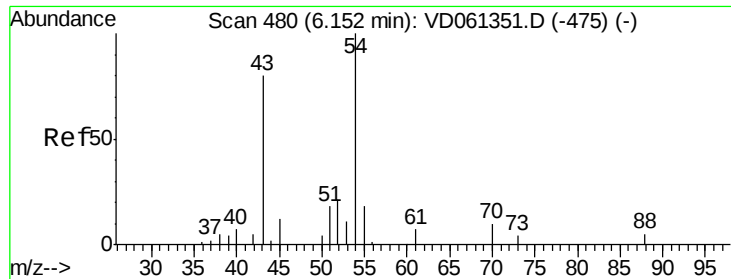
#36
 1,1-Dichloropropene
 Concen: 5.069 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD061469.D
 Acq: 1 Apr 2019 15:31

Tgt Ion: 75 Resp: 38738
 Ion Ratio Lower Upper
 75 100
 110 6.5 20.4 61.3#
 77 0.0 24.9 37.3#



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

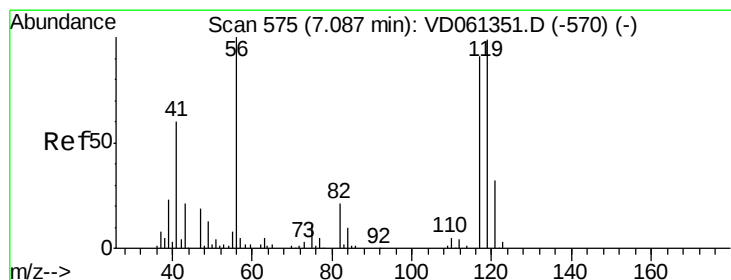
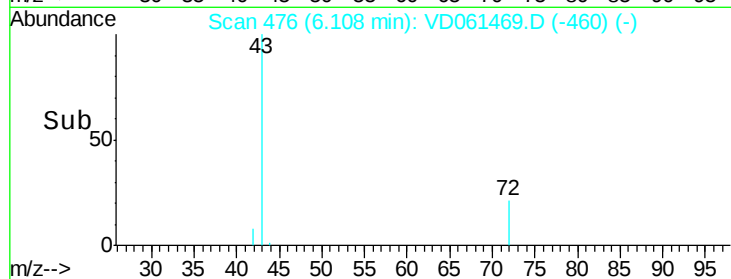
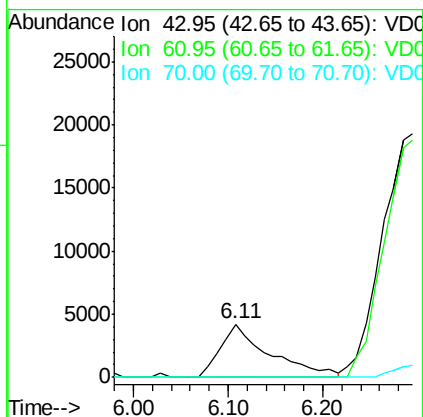
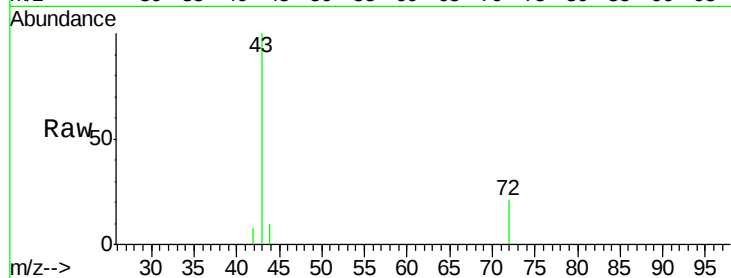




#37
Ethyl Acetate
Concen: 4.591 ug/l
RT: 6.11 min Scan# 476
Delta R.T. -0.04 min
Lab File: VD061469.D
Acq: 1 Apr 2019 15:31

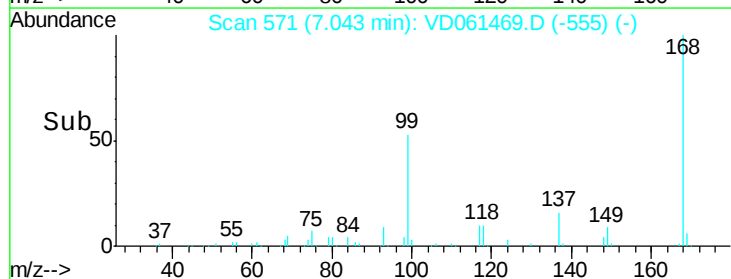
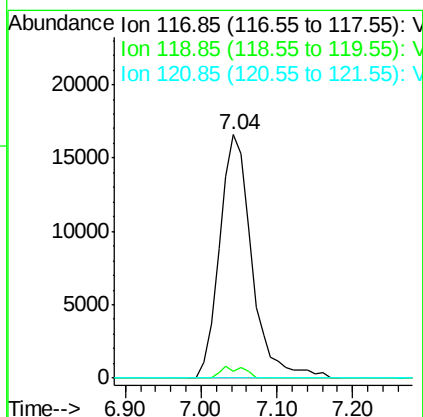
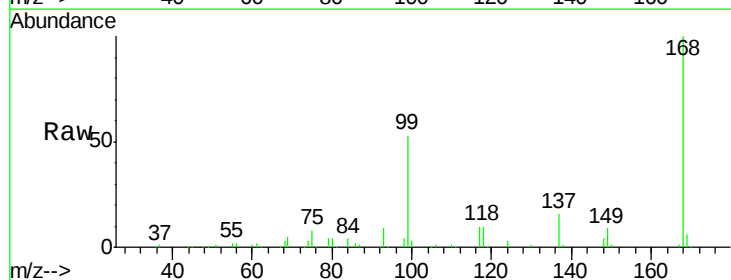
Instrument :
MSVOA_D
ClientSampled :

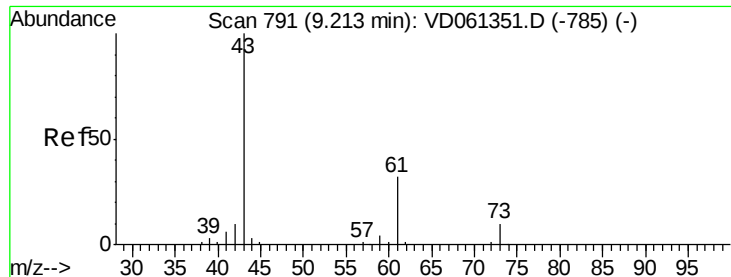
Tot Ion: 43 Resp: 15005
Ion Ratio Lower Upper
43 100
61 0.0 13.8 20.8#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.568 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.04 min
Lab File: VD061469.D
Acq: 1 Apr 2019 15:31

Tgt Ion: 117 Resp: 48894
Ion Ratio Lower Upper
117 100
119 3.0 80.1 120.1#
121 0.0 25.6 38.4#





#43

Isopropyl Acetate

Concen: 1.002 ug/l

RT: 9.06 min Scan# 776

Delta R.T. -0.15 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

ClientSampleId :

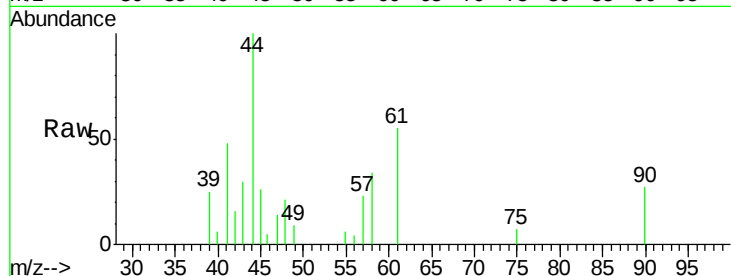
Tot Ion: 43 Resp: 4766

Ion Ratio Lower Upper

43 100

61 182.2 25.8 38.6#

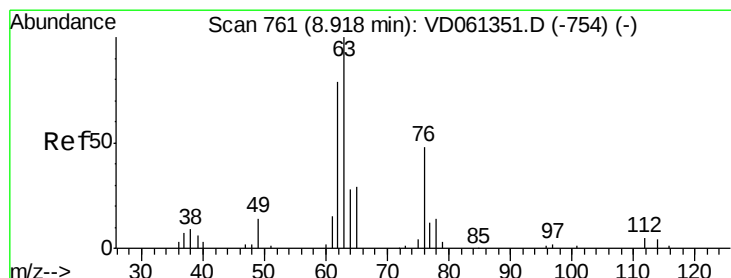
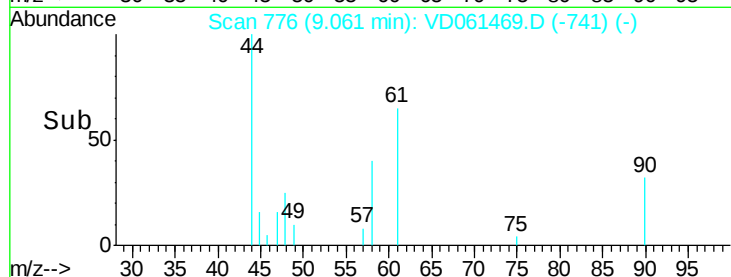
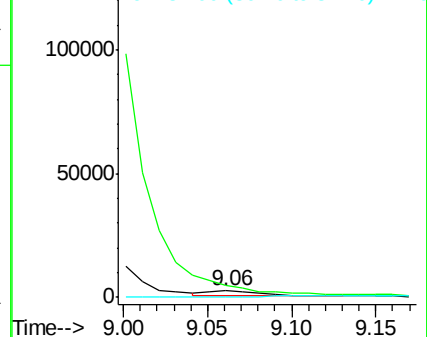
87 0.0 0.0 0.0



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



#45

1,2-Dichloropropane

Concen: 5.252 ug/l

RT: 8.98 min Scan# 768

Delta R.T. 0.06 min

Lab File: VD061469.D

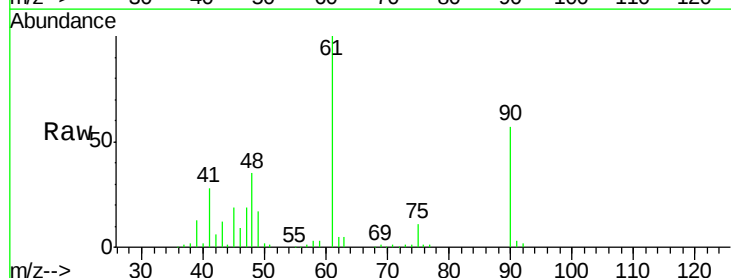
Acq: 1 Apr 2019 15:31

Tgt Ion: 63 Resp: 25542

Ion Ratio Lower Upper

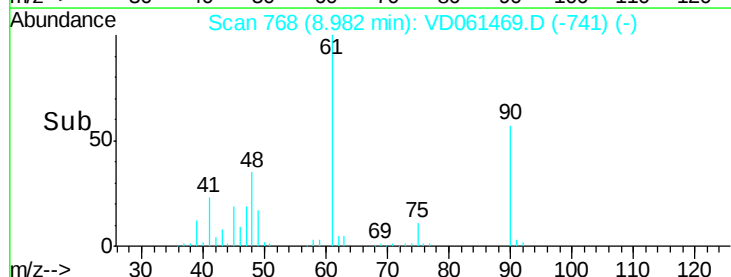
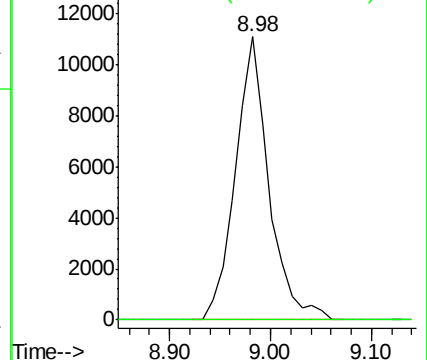
63 100

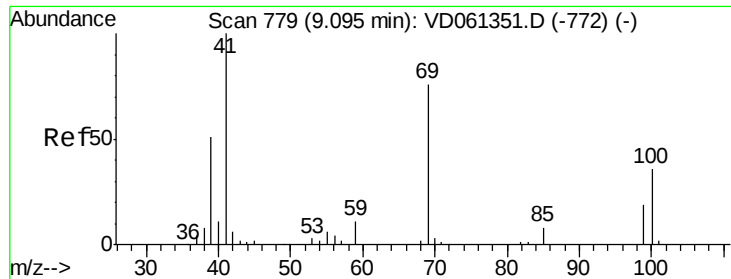
65 0.0 25.0 37.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC





#48

Methyl methacrylate

Concen: 49.680 ug/l

RT: 8.98 min Scan# 768

Delta R.T. -0.11 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

ClientSampleId :

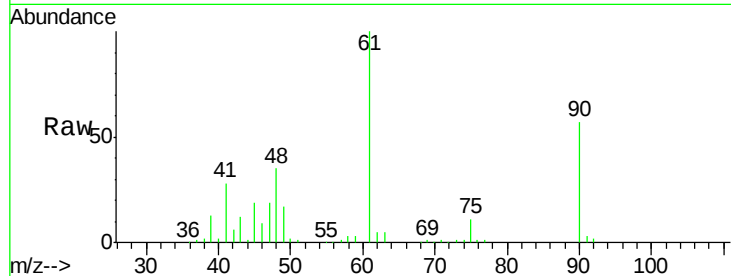
Tot Ion: 41 Resp: 130376

Ion Ratio Lower Upper

41 100

69 3.3 60.2 90.4#

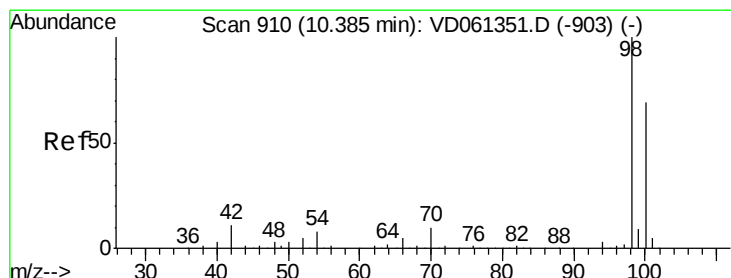
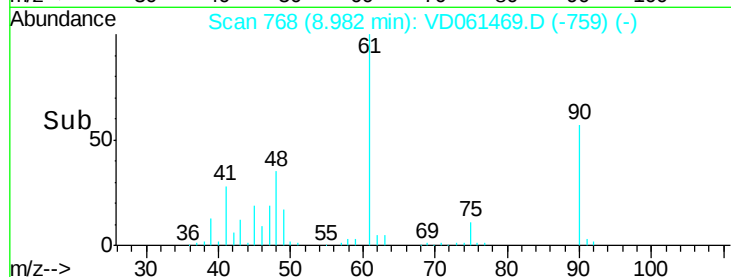
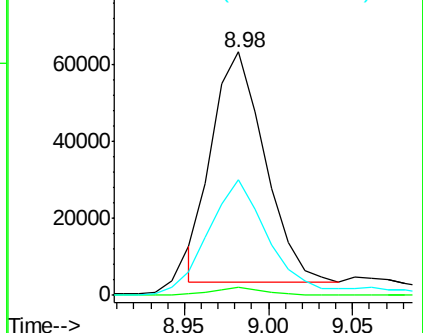
39 47.5 41.4 62.2



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: 10.42 min Scan# 914

Delta R.T. 0.03 min

Lab File: VD061469.D

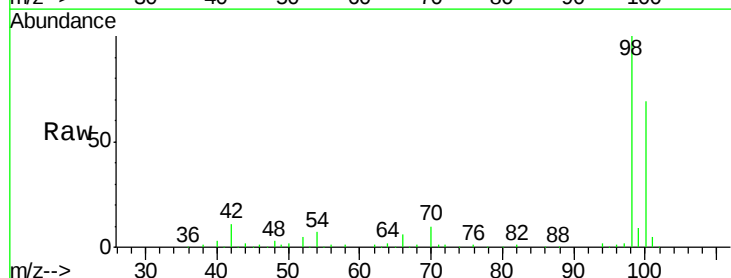
Acq: 1 Apr 2019 15:31

Tgt Ion: 98 Resp: 748857

Ion Ratio Lower Upper

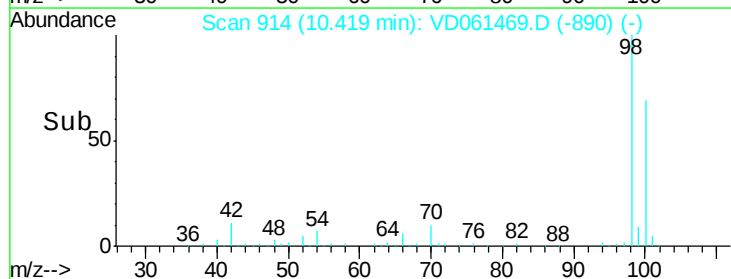
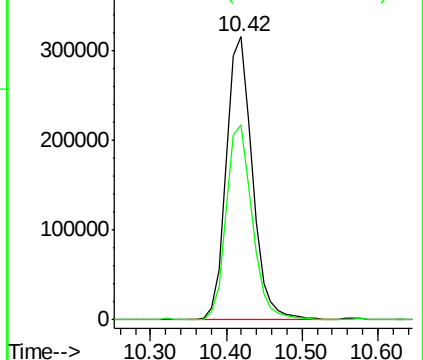
98 100

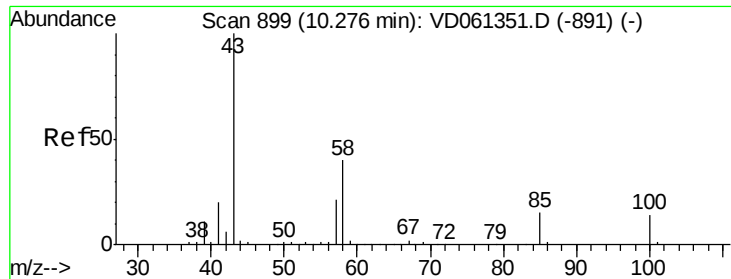
100 69.0 56.2 84.2



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: 9.154 ug/l

RT: 10.32 min Scan# 904

Delta R.T. 0.04 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

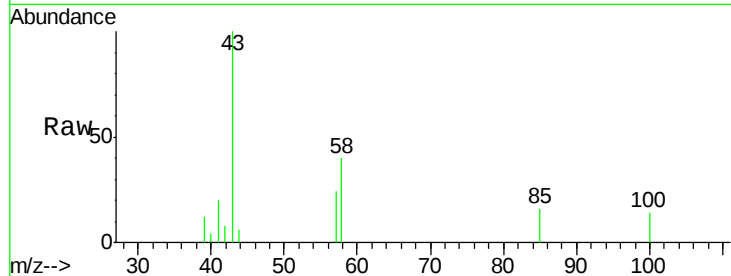
ClientSampleId :

Tot Ion: 43 Resp: 26481

Ion Ratio Lower Upper

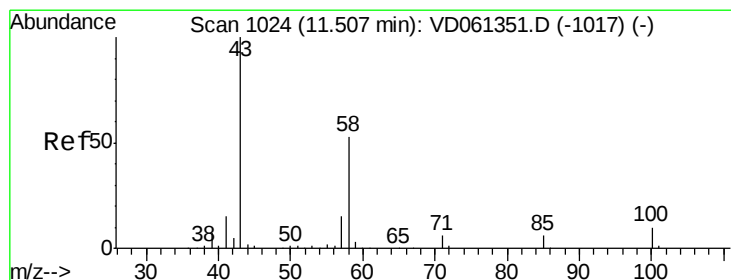
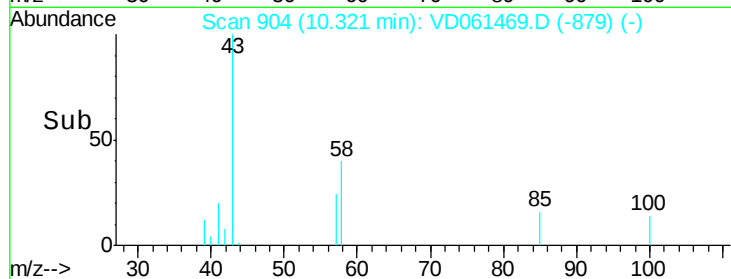
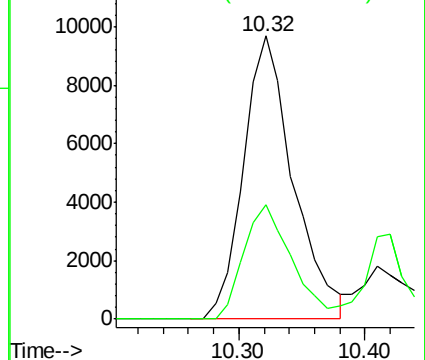
43 100

58 40.3 31.8 47.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 2.135 ug/l

RT: 11.56 min Scan# 1030

Delta R.T. 0.05 min

Lab File: VD061469.D

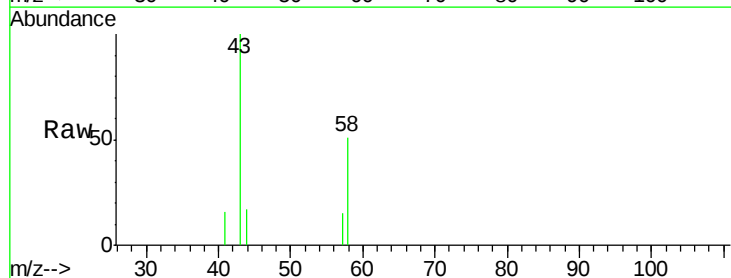
Acq: 1 Apr 2019 15:31

Tgt Ion: 43 Resp: 4476

Ion Ratio Lower Upper

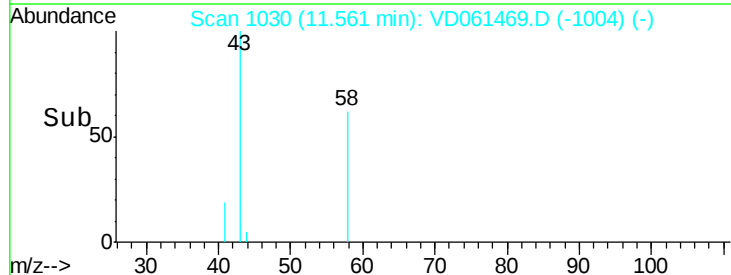
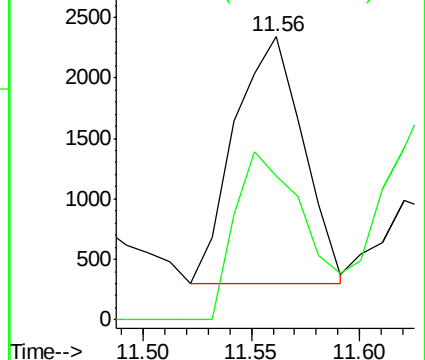
43 100

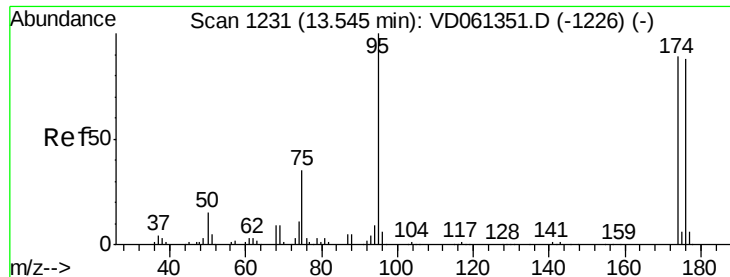
58 50.9 26.3 78.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

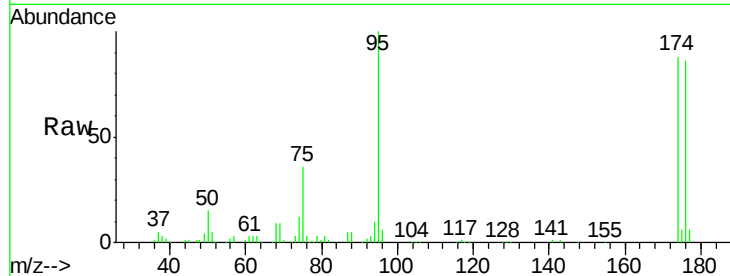




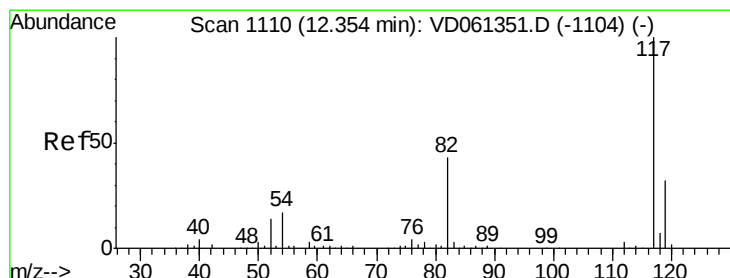
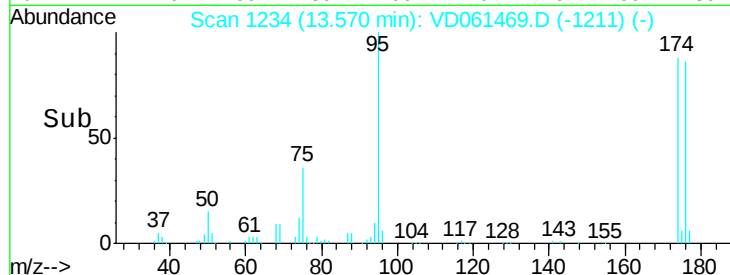
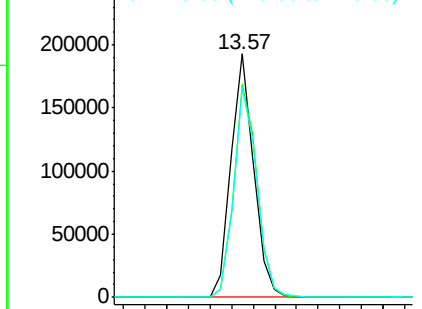
#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD061469.D
Acq: 1 Apr 2019 15:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 282484
Ion Ratio Lower Upper
95 100
174 87.6 0.0 178.0
176 86.1 0.0 175.0

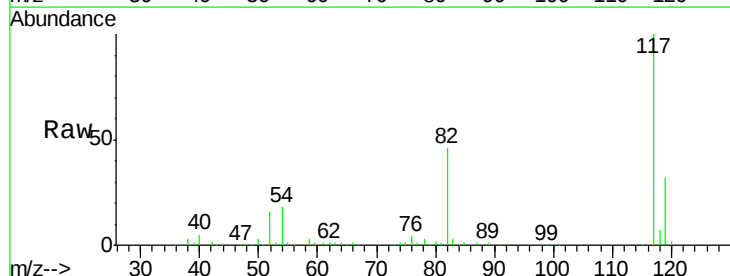


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

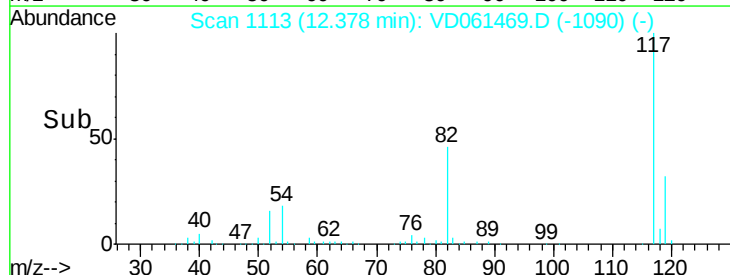
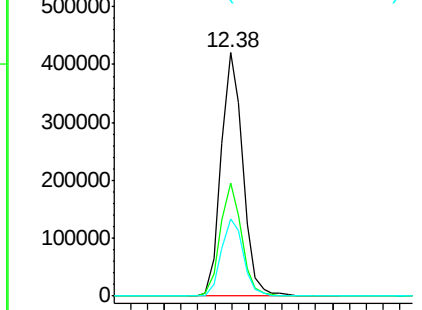


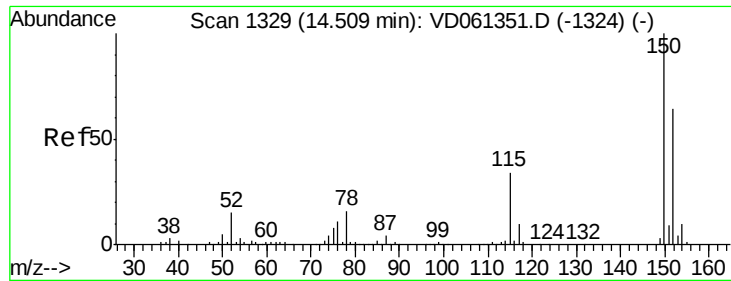
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061469.D
Acq: 1 Apr 2019 15:31

Tgt Ion: 117 Resp: 751989
Ion Ratio Lower Upper
117 100
82 46.3 34.4 51.6
119 31.6 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

ClientSampled :

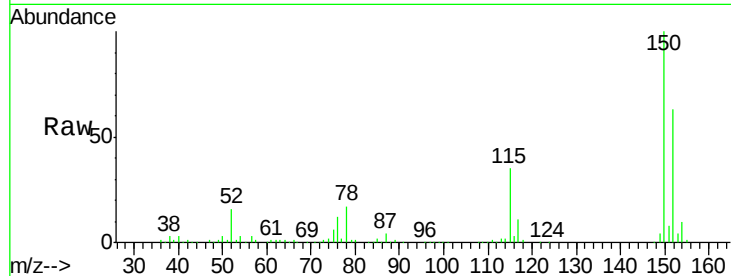
Tot Ion:152 Resp: 279112

Ion Ratio Lower Upper

152 100

115 55.1 26.9 80.6

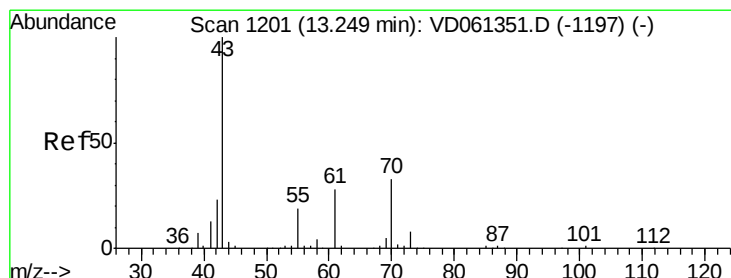
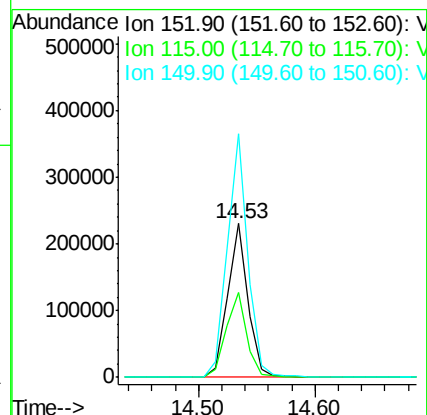
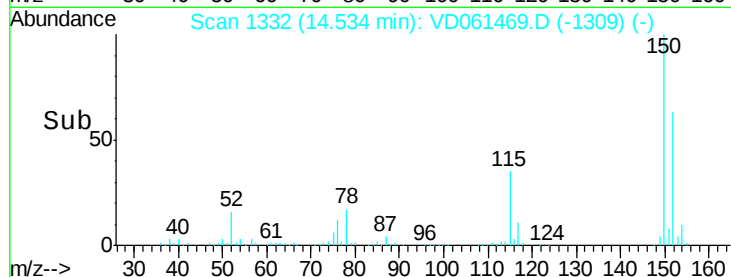
150 158.5 0.0 318.0



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



#74

N-ethyl acetate

Concen: 5.739 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.03 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Tgt Ion: 43 Resp: 31057

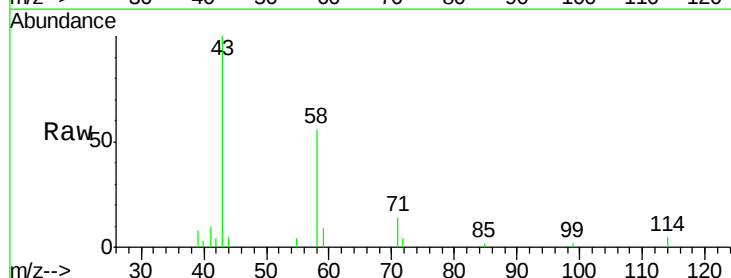
Ion Ratio Lower Upper

43 100

70 0.0 26.6 40.0#

55 3.5 15.4 23.2#

61 0.0 22.2 33.4#

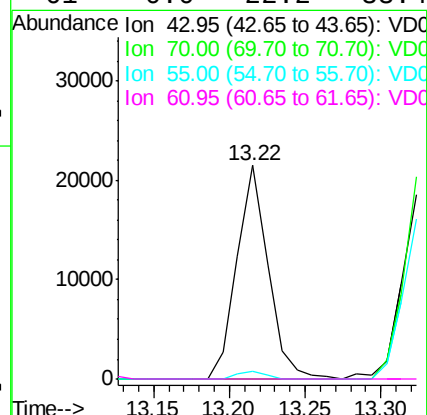
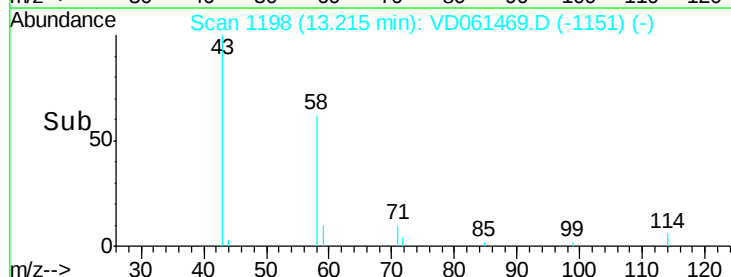


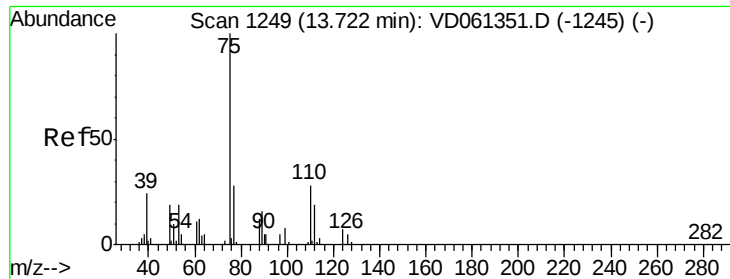
Abundance Ion 42.95 (42.65 to 43.65): V

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





#76

1,2,3-Trichloropropane

Concen: 25.636 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.15 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Instrument :

MSVOA_D

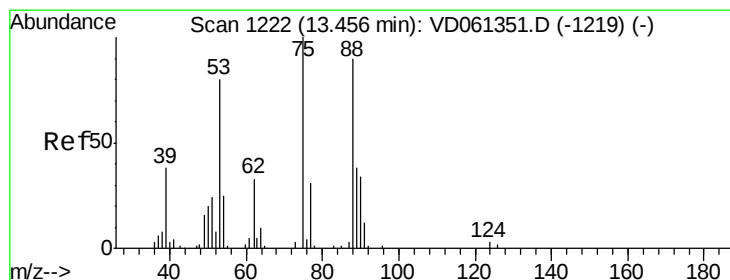
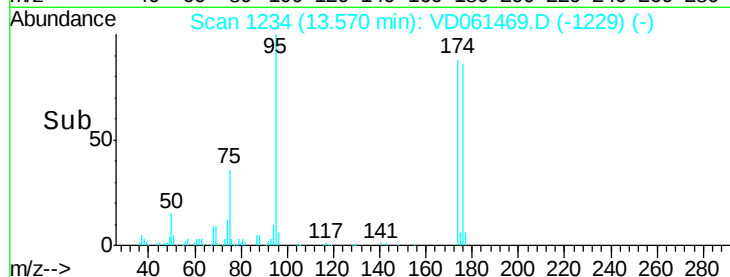
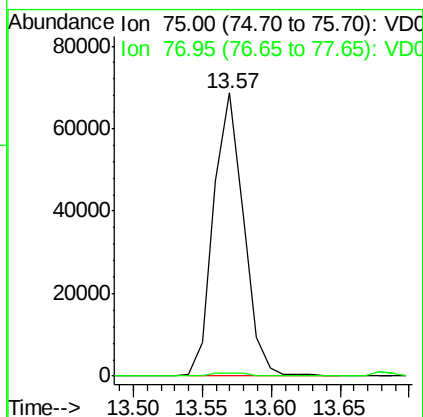
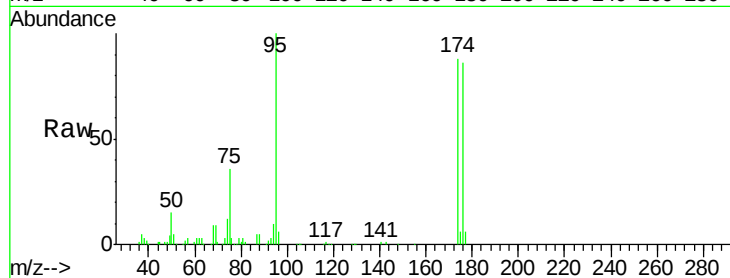
ClientSampleId :

Tot Ion: 75 Resp: 103360

Ion Ratio Lower Upper

75 100

77 1.3 16.2 48.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.124 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.11 min

Lab File: VD061469.D

Acq: 1 Apr 2019 15:31

Tgt Ion: 75 Resp: 103415

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#

