

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD051419\
 Data File : VD062382.D
 Acq On : 15 May 2019 9:04
 Operator : FY/SY
 Sample : K2801-07
 Misc : 4.90g/5mL/MSVOA_D/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-3456

Quant Time: May 15 09:54:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	68787	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	111335	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	95140	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	49466	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	68969	107.89	ug/l	0.04
Spiked Amount			Recovery	=	215.78%	
35) Dibromofluoromethane	6.95	113	56131	60.76	ug/l	0.05
Spiked Amount			Recovery	=	121.52%	
50) Toluene-d8	10.42	98	84323	37.86	ug/l	0.02
Spiked Amount			Recovery	=	75.72%	
62) 4-Bromofluorobenzene	13.56	95	42999	48.08	ug/l	0.02
Spiked Amount			Recovery	=	96.16%	

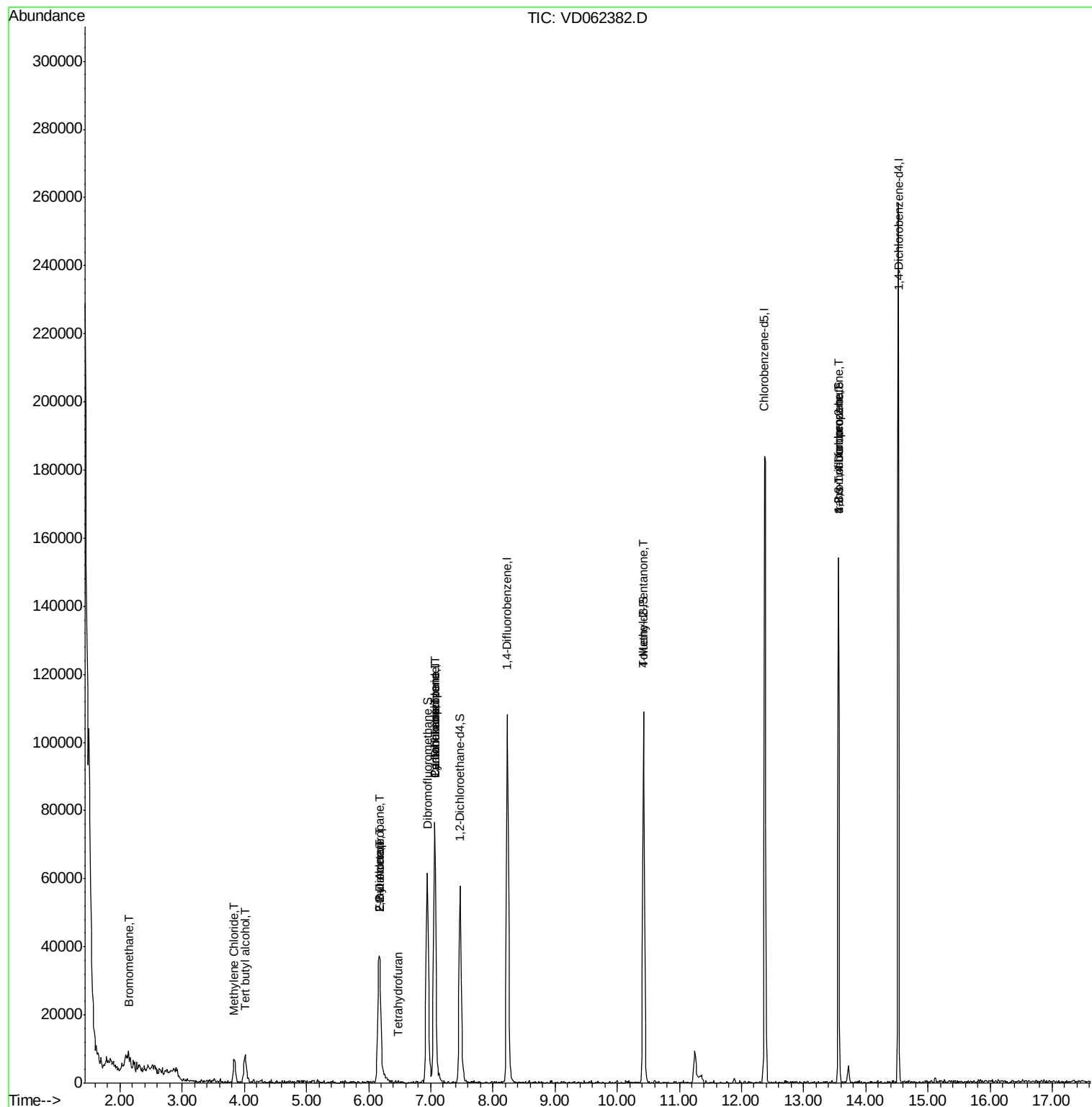
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	1471	13.437	ug/l #	12
11) Tert butyl alcohol	4.03	59	7521	230.493	ug/l #	76
20) Methylene Chloride	3.85	84	4535	8.102	ug/l #	78
25) 2-Butanone	6.17	43	2729	18.663	ug/l #	56
26) 2,2-Dichloropropane	6.16	77	1884	1.932	ug/l #	51
29) Tetrahydrofuran	6.49	42	193	2.865	ug/l #	30
31) Cyclohexane	7.06	56	1076	1.604	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	6213	6.806	ug/l #	40
37) Ethyl Acetate	6.17	43	2729	7.049	ug/l #	17
38) Carbon Tetrachloride	7.07	117	7558	5.982	ug/l #	12
51) 4-Methyl-2-Pentanone	10.42	43	445	1.261	ug/l #	33
76) 1,2,3-Trichloropropane	13.56	75	20280	34.498	ug/l #	46
81) trans-1,4-Dichloro-2-buten	13.56	75	20882	125.828	ug/l #	16

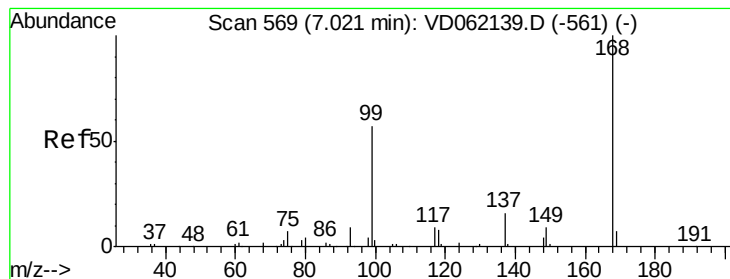
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampleId :

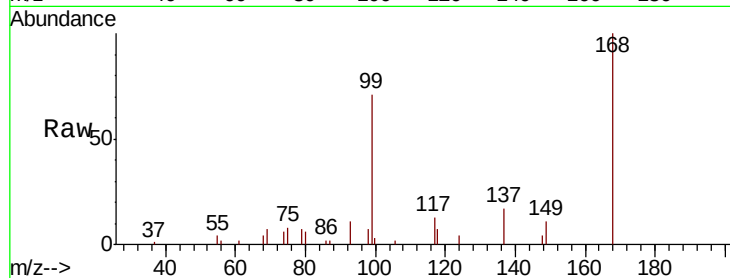
RT-3456

Tgt Ion: 168 Resp: 68787

Ion Ratio Lower Upper

168 100

99 71.1 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

25000

20000

15000

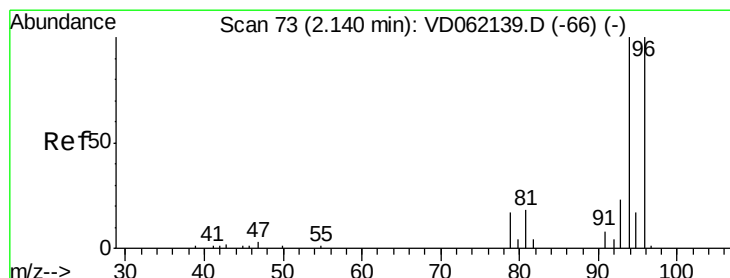
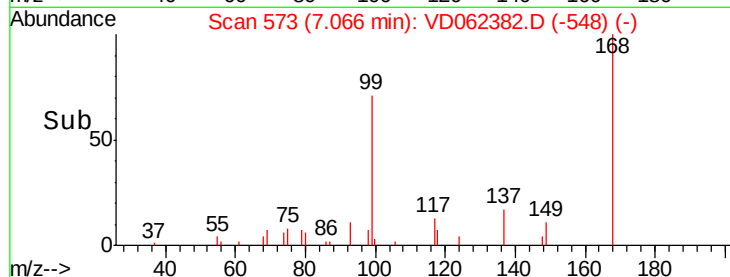
10000

5000

0

Time-->

7.00 7.10 7.20



#5

Bromomethane

Concen: 13.437 ug/l

RT: 2.15 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

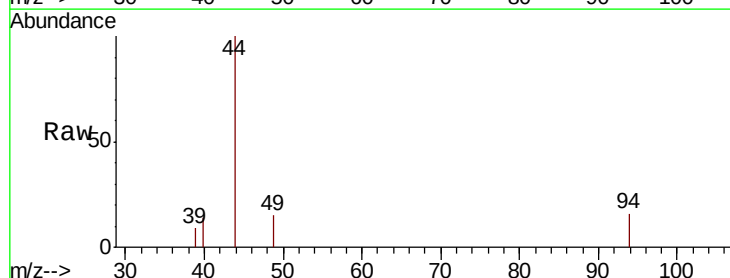
Tgt Ion: 94 Resp: 1471

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



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

800

600

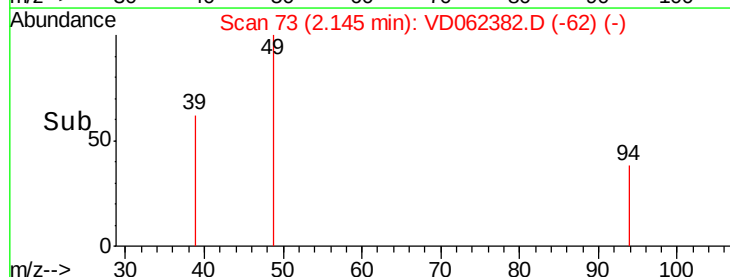
400

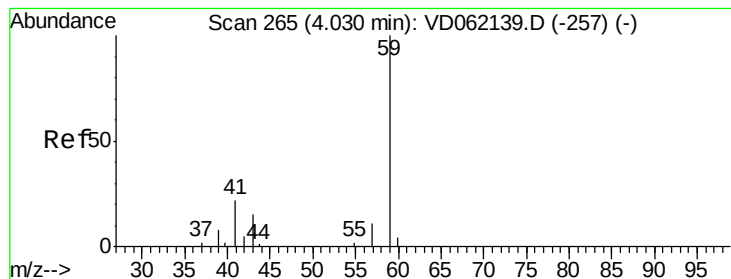
200

0

Time-->

2.10 2.15



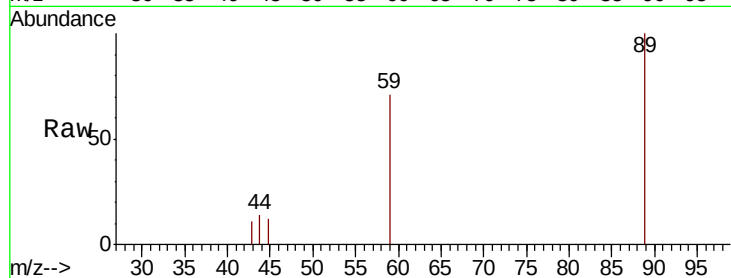


#11

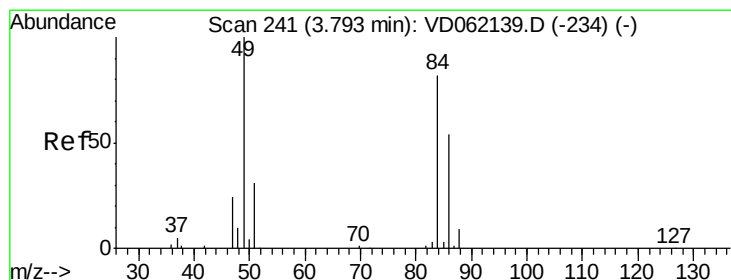
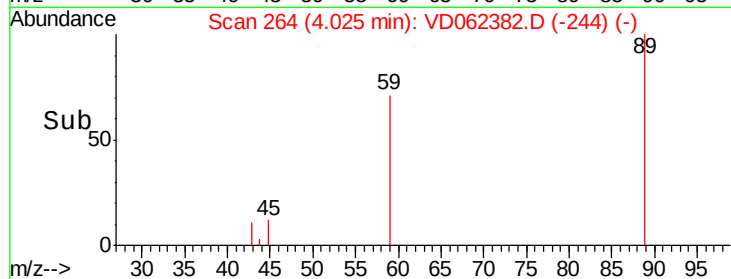
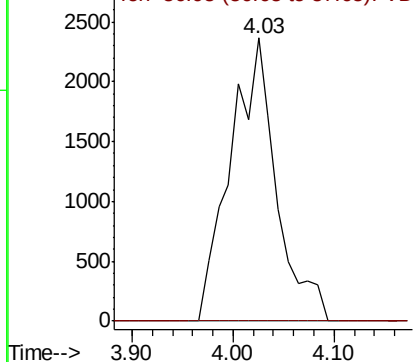
Tert butyl alcohol
 Concen: 230.493 ug/l
 RT: 4.03 min Scan# 264
 Delta R.T. -0.00 min
 Lab File: VD062382.D
 Acq: 15 May 2019 9:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-3456

Tgt Ion: 59 Resp: 7521
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#



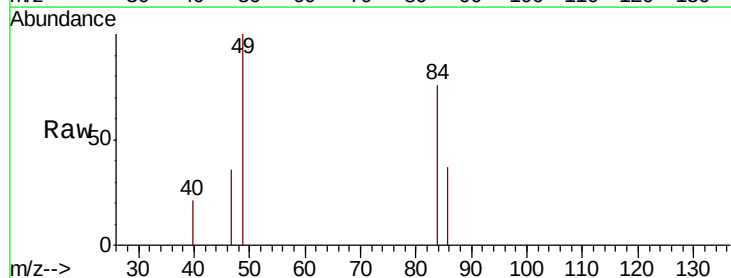
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



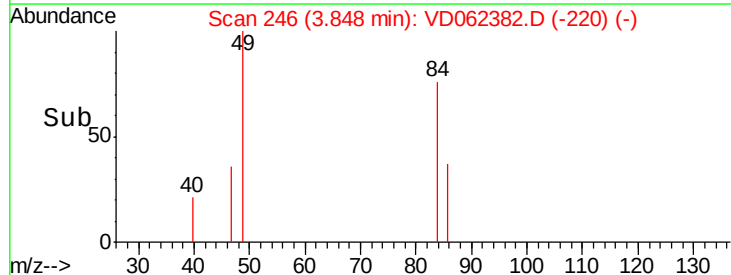
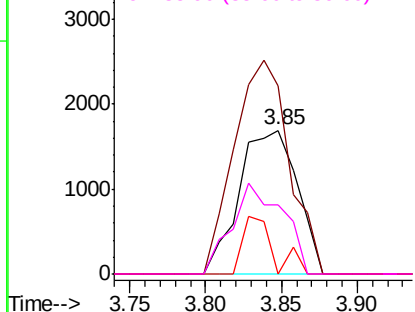
#20

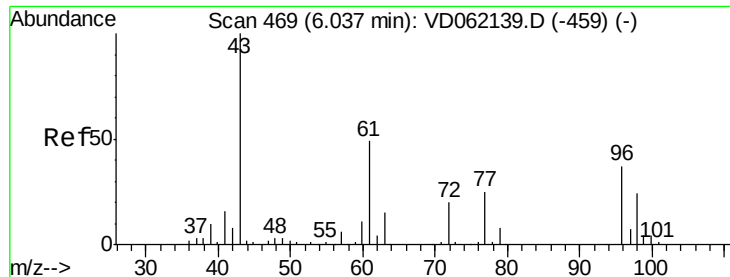
Methylene Chloride
 Concen: 8.102 ug/l
 RT: 3.85 min Scan# 246
 Delta R.T. 0.05 min
 Lab File: VD062382.D
 Acq: 15 May 2019 9:04

Tgt Ion: 84 Resp: 4535
 Ion Ratio Lower Upper
 84 100
 49 130.8 94.0 141.0
 51 0.0 29.0 43.4#
 86 47.8 49.8 74.6#



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





#25

2-Butanone

Concen: 18.663 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.13 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampled :

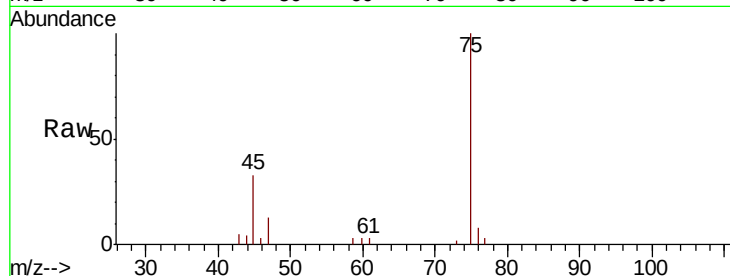
RT-3456

Tgt Ion: 43 Resp: 2729

Ion Ratio Lower Upper

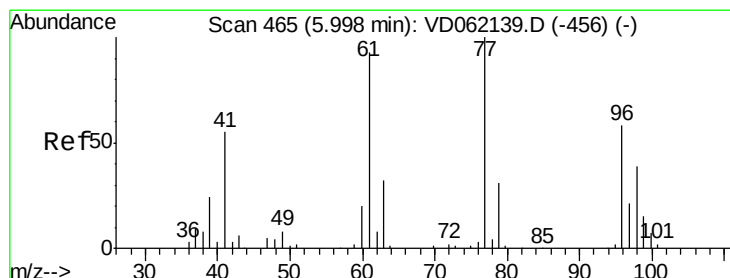
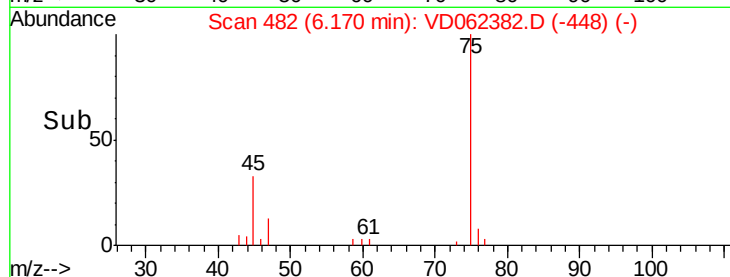
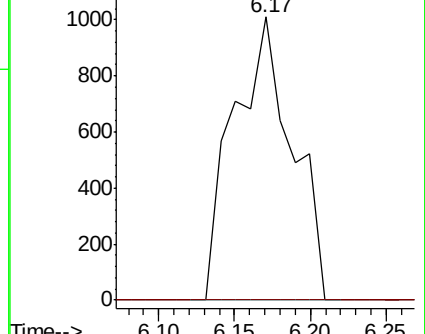
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.932 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.16 min

Lab File: VD062382.D

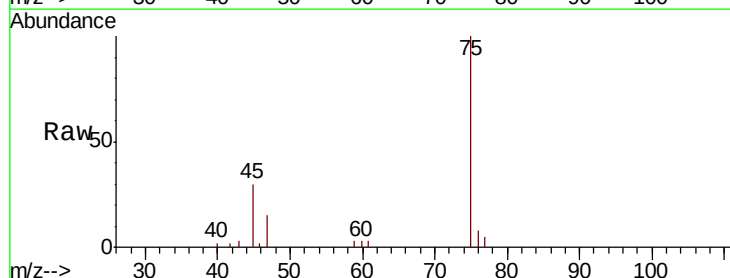
Acq: 15 May 2019 9:04

Tgt Ion: 77 Resp: 1884

Ion Ratio Lower Upper

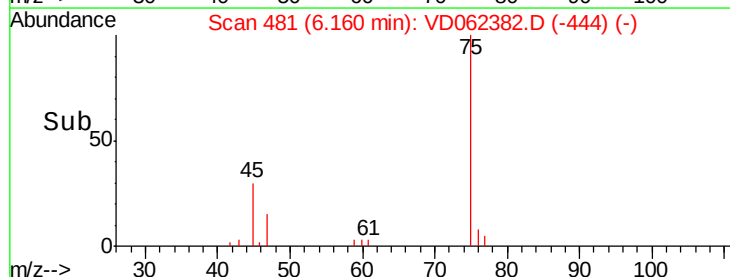
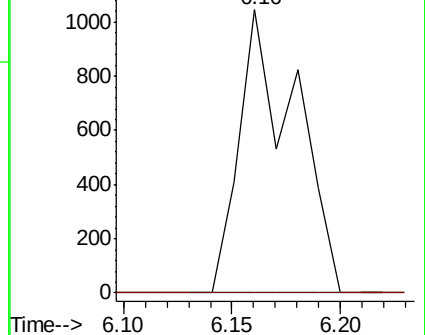
77 100

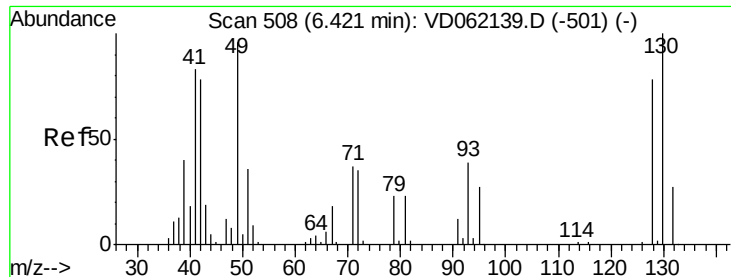
97 0.0 11.9 35.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 2.865 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.06 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampleId :

RT-3456

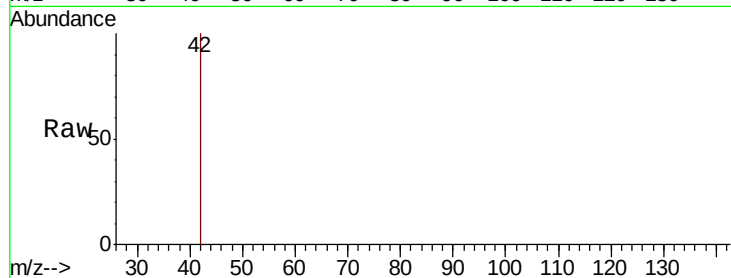
Tgt Ion: 42 Resp: 193

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 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

6.49

300

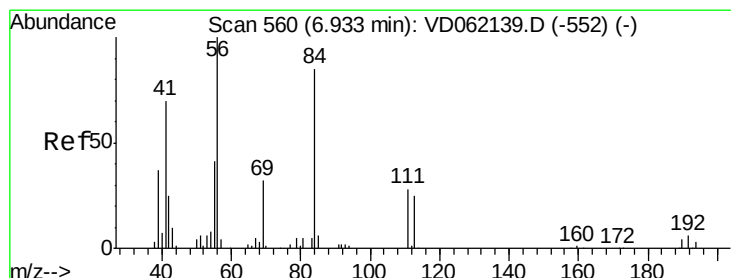
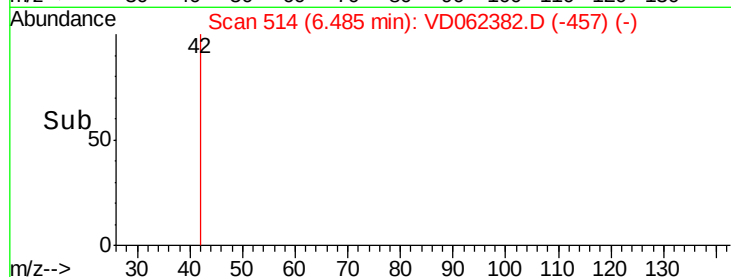
200

100

0

6.46 6.48 6.50

Time-->



#31

Cyclohexane

Concen: 1.604 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

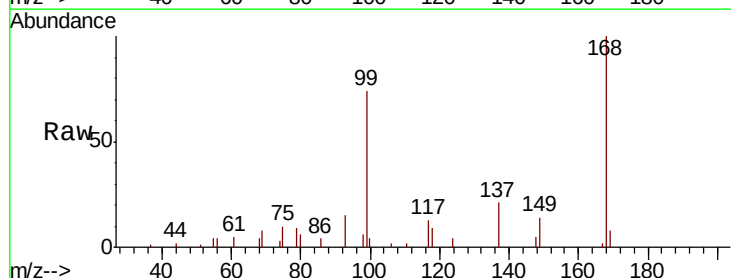
Tgt Ion: 56 Resp: 1076

Ion Ratio Lower Upper

56 100

69 206.3 25.8 38.6#

84 0.0 72.2 108.4#



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

2500

2000

1500

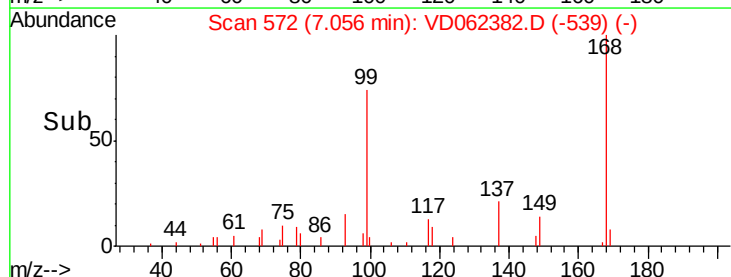
1000

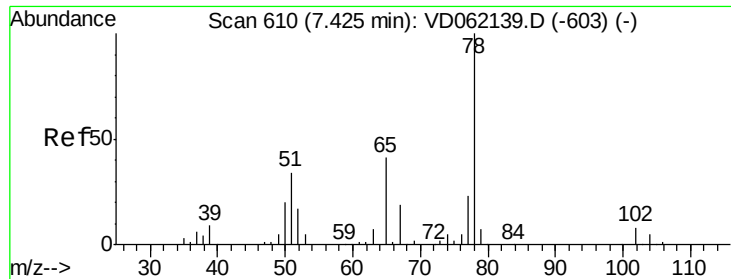
500

0

7.00 7.05 7.10

Time-->

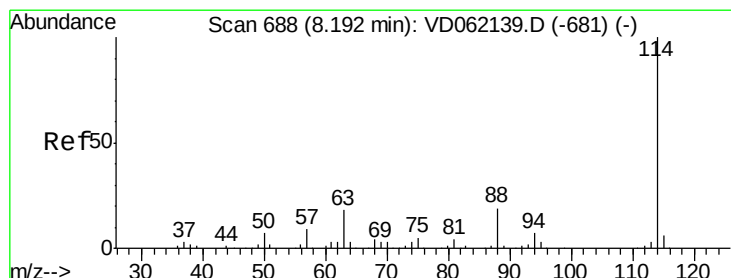
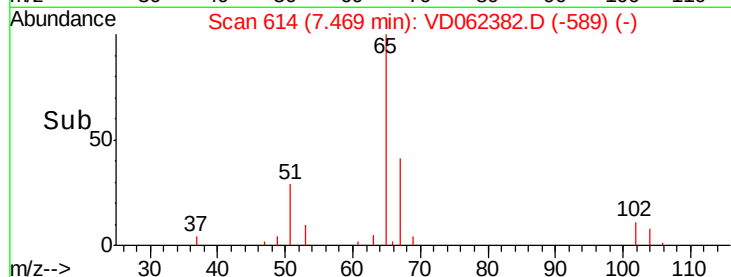
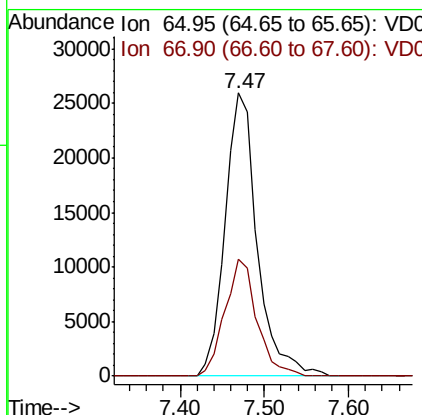
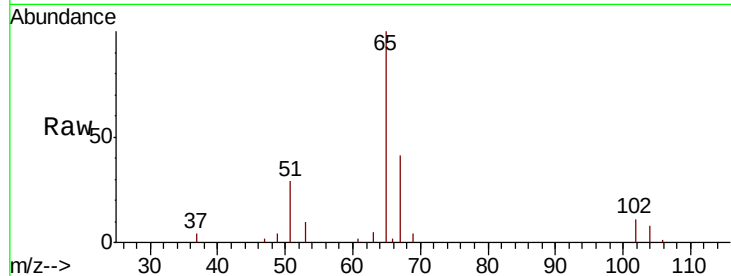




#33
 1,2-Dichloroethane-d4
 Concen: 107.891 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.04 min
 Lab File: VD062382.D
 Acq: 15 May 2019 9:04

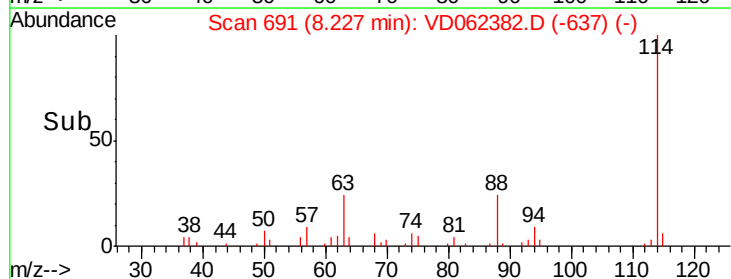
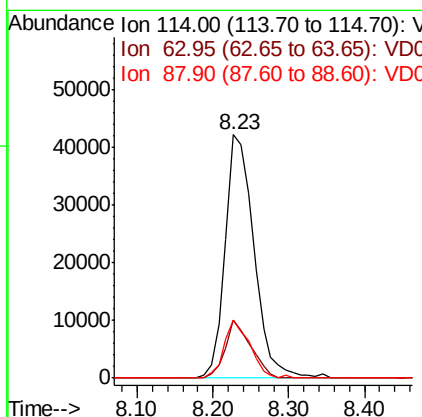
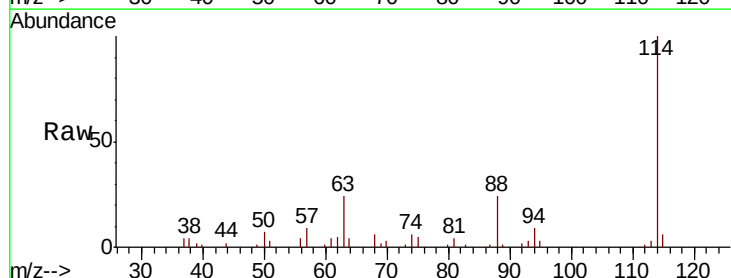
Instrument :
 MSVOA_D
 ClientSampleID :
 RT-3456

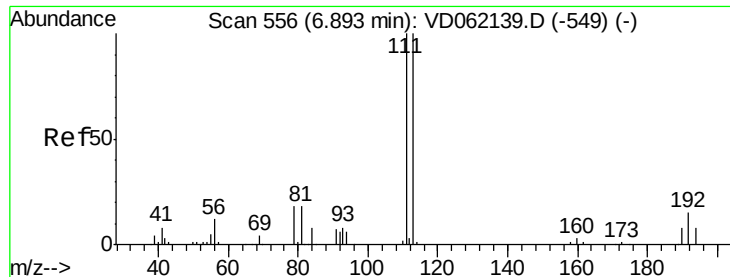
Tgt Ion: 65 Resp: 68969
 Ion Ratio Lower Upper
 65 100
 67 41.3 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.03 min
 Lab File: VD062382.D
 Acq: 15 May 2019 9:04

Tgt Ion: 114 Resp: 111335
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 32.4
 88 24.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 60.764 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.05 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampleId :

RT-3456

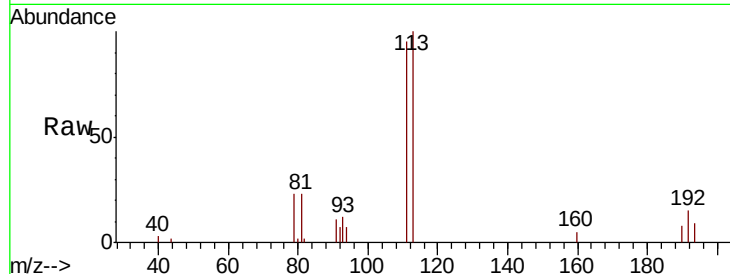
Tgt Ion:113 Resp: 56131

Ion Ratio Lower Upper

113 100

111 94.7 78.5 117.7

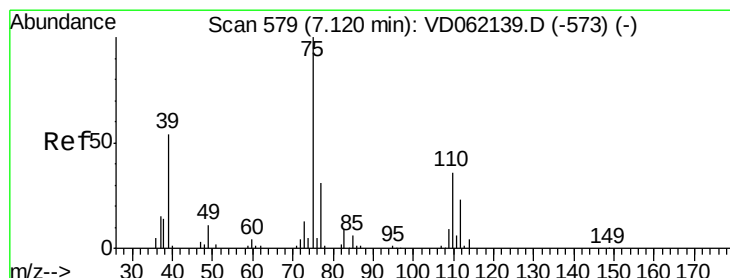
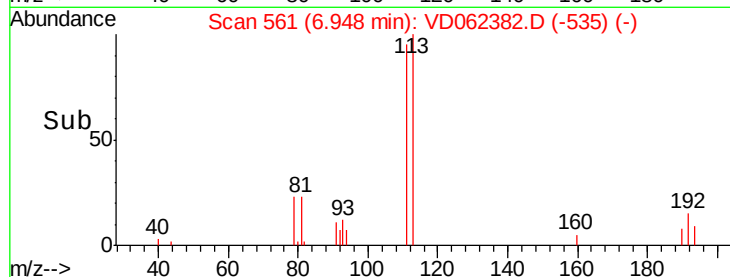
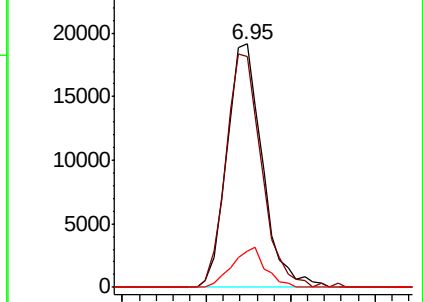
192 15.0 13.0 19.4



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: 6.806 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

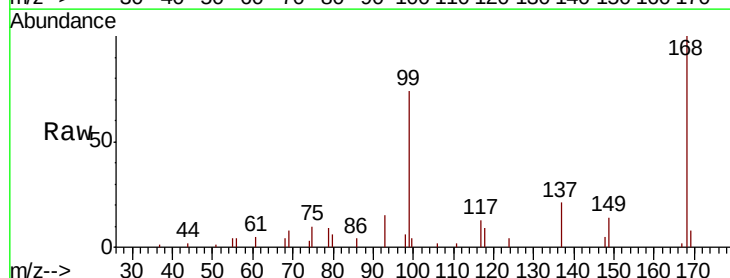
Tgt Ion: 75 Resp: 6213

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.1#

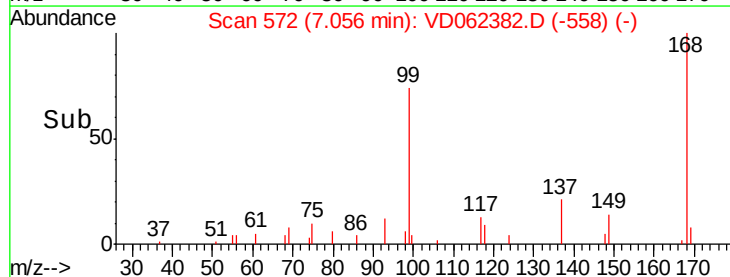
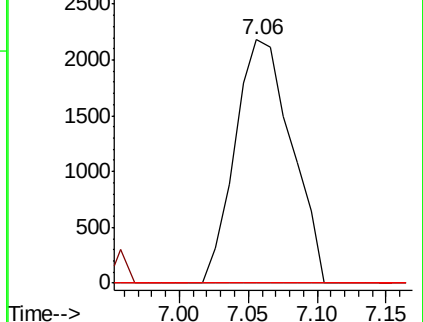
77 0.0 25.6 38.4#

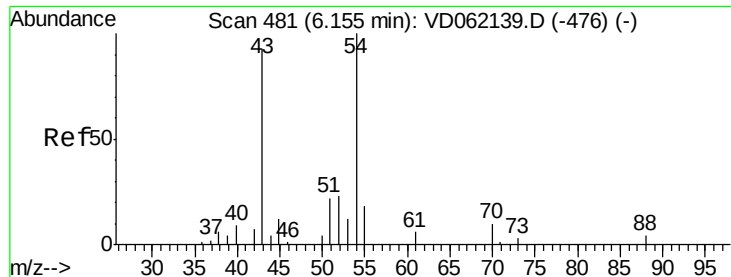


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

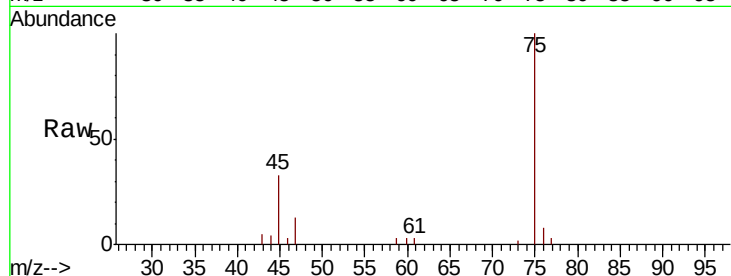




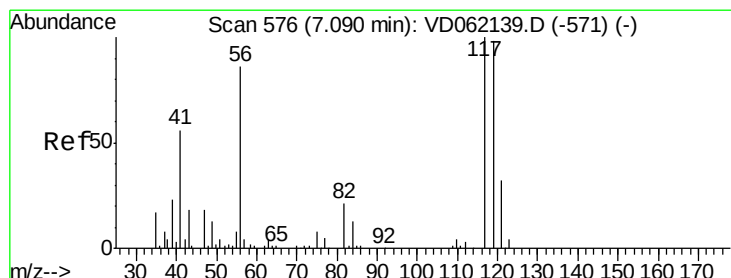
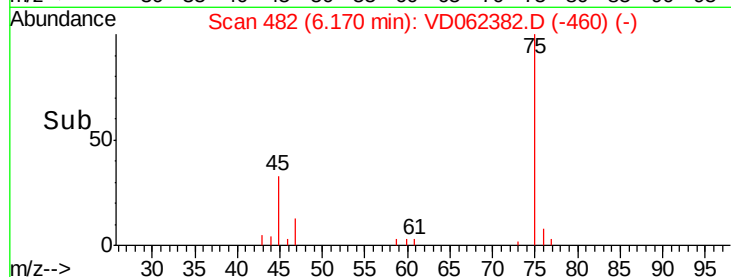
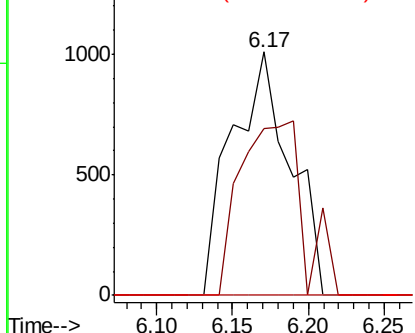
#37
 Ethyl Acetate
 Concen: 7.049 ug/l
 RT: 6.17 min Scan# 482
 Delta R.T. 0.02 min
 Lab File: VD062382.D
 Acq: 15 May 2019 9:04

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-3456

Tgt Ion: 43 Resp: 2729
 Ion Ratio Lower Upper
 43 100
 61 68.4 14.7 22.1#
 70 0.0 7.8 11.6#

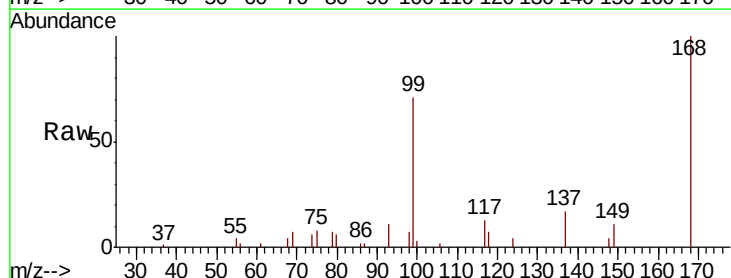


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 70.00 (69.70 to 70.70): VDC

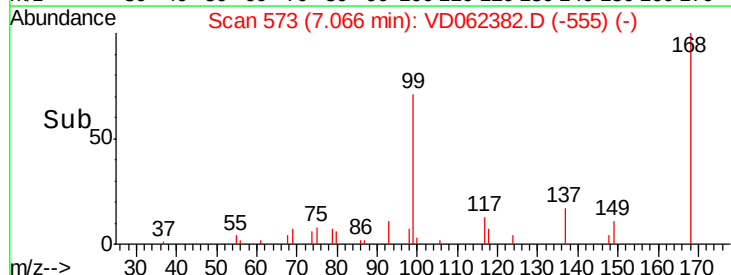
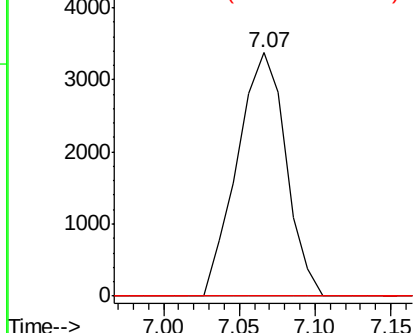


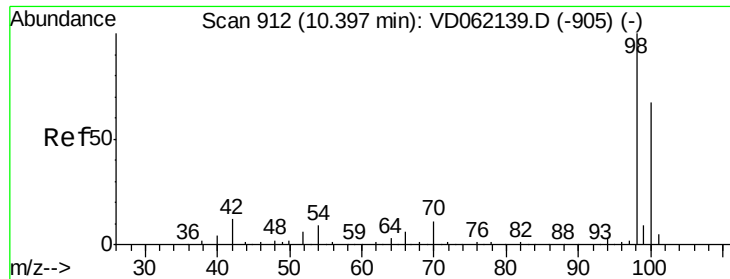
#38
 Carbon Tetrachloride
 Concen: 5.982 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. -0.02 min
 Lab File: VD062382.D
 Acq: 15 May 2019 9:04

Tgt Ion: 117 Resp: 7558
 Ion Ratio Lower Upper
 117 100
 119 0.0 75.8 113.8#
 121 0.0 25.9 38.9#



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

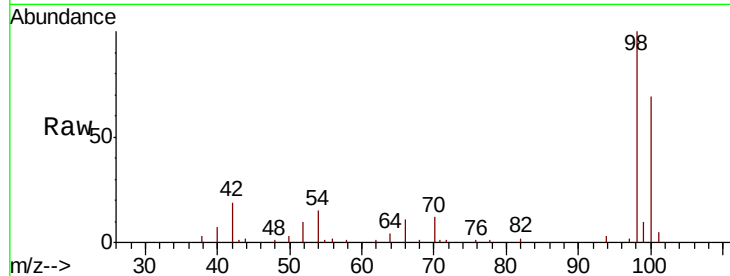




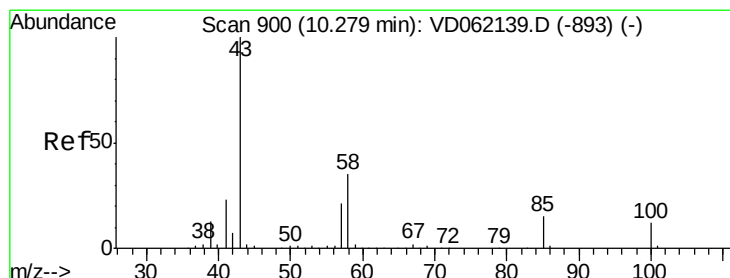
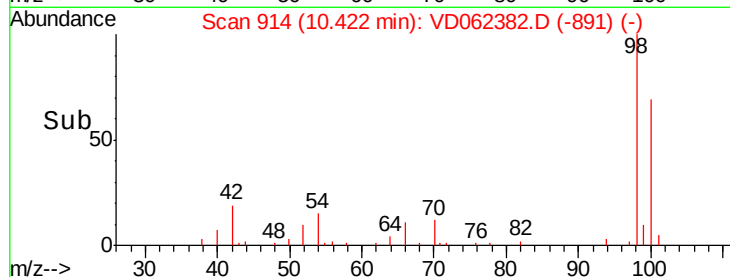
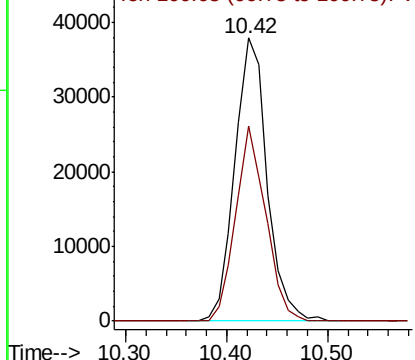
#50
Toluene-d8
Concen: 37.860 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062382.D
Acq: 15 May 2019 9:04

Instrument :
MSVOA_D
ClientSampleId :
RT-3456

Tgt Ion: 98 Resp: 84323
Ion Ratio Lower Upper
98 100
100 69.1 53.8 80.8

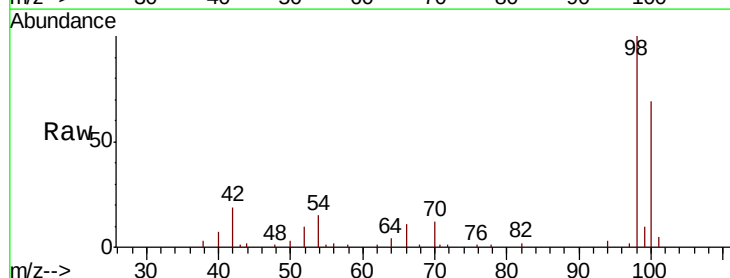


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

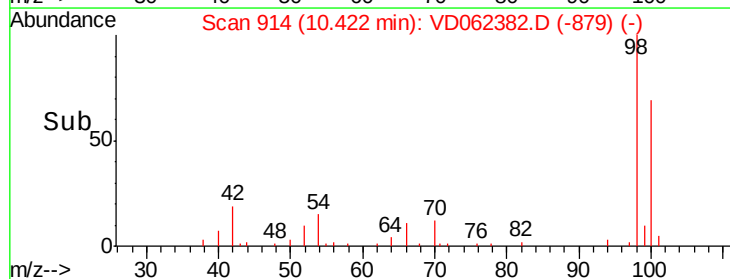
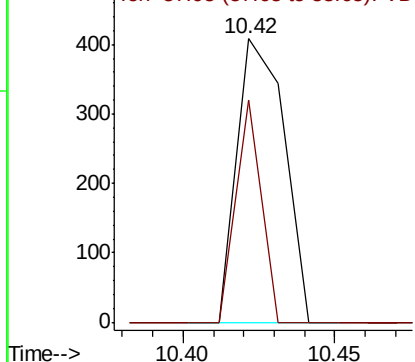


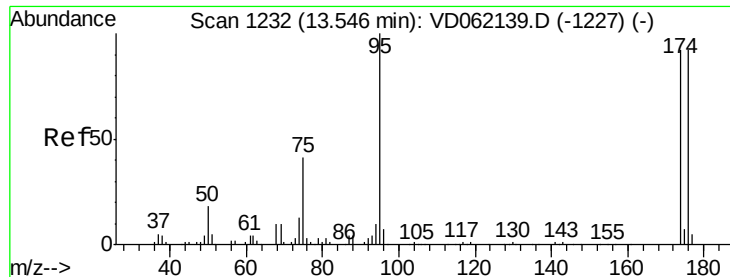
#51
4-Methyl-2-Pentanone
Concen: 1.261 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.14 min
Lab File: VD062382.D
Acq: 15 May 2019 9:04

Tgt Ion: 43 Resp: 445
Ion Ratio Lower Upper
43 100
58 78.4 30.4 45.6#



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





#62

4-Bromofluorobenzene

Concen: 48.077 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampleId :

RT-3456

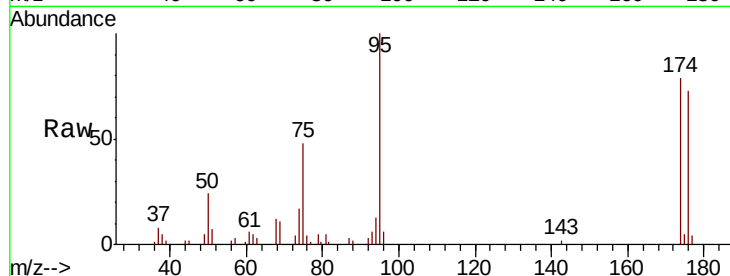
Tgt Ion: 95 Resp: 42999

Ion Ratio Lower Upper

95 100

174 79.4 0.0 181.8

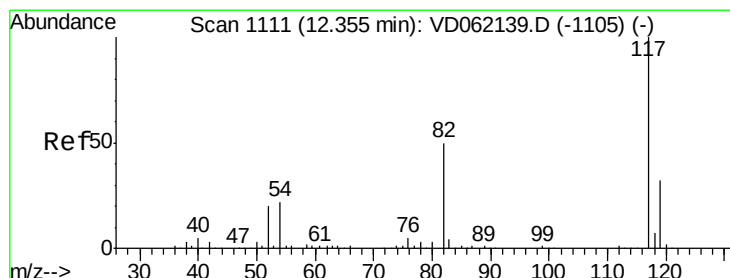
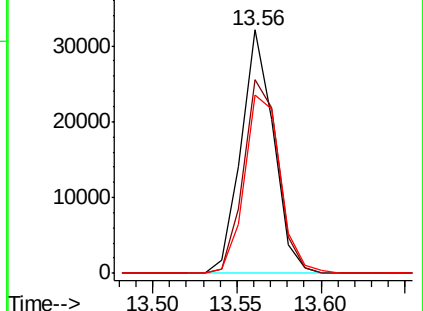
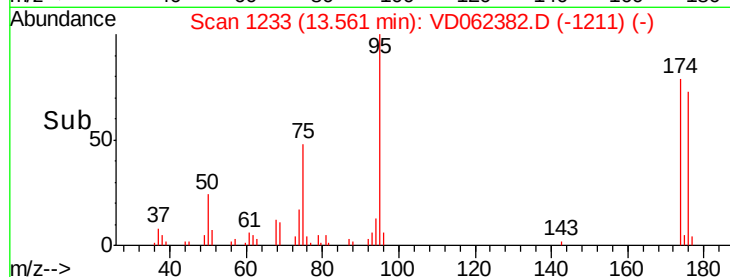
176 73.4 0.0 174.4



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: VD062382.D

Acq: 15 May 2019 9:04

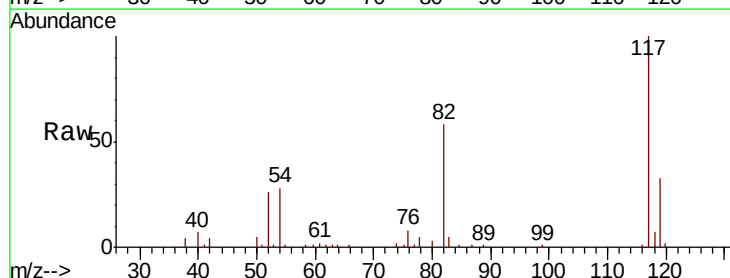
Tgt Ion: 117 Resp: 95140

Ion Ratio Lower Upper

117 100

82 58.0 36.2 54.2#

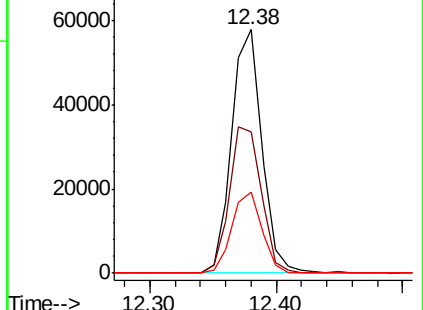
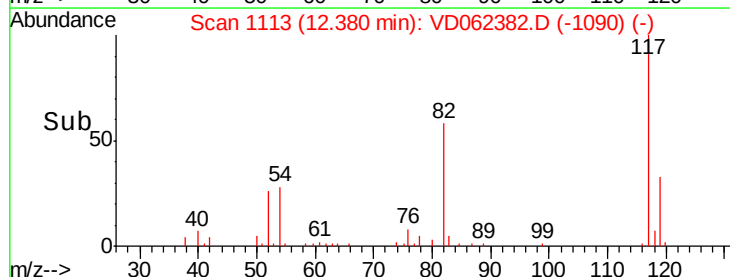
119 33.1 26.2 39.4

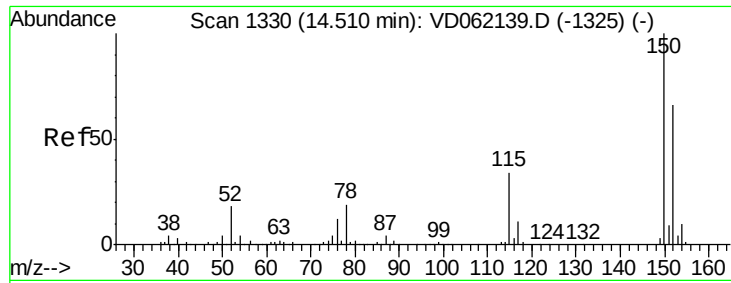


Abundance Ion 116.95 (116.65 to 117.65): V

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. 0.02 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampleId :

RT-3456

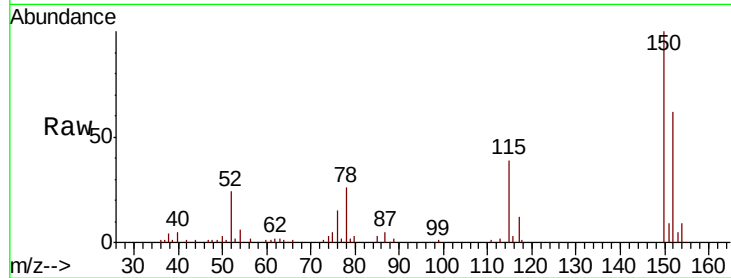
Tgt Ion:152 Resp: 49466

Ion Ratio Lower Upper

152 100

115 62.7 30.9 92.7

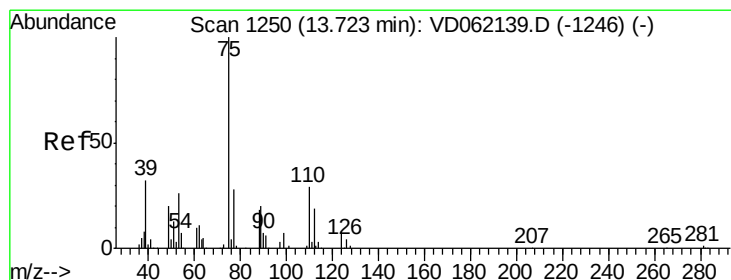
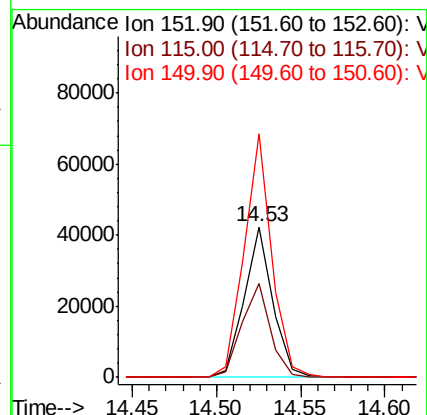
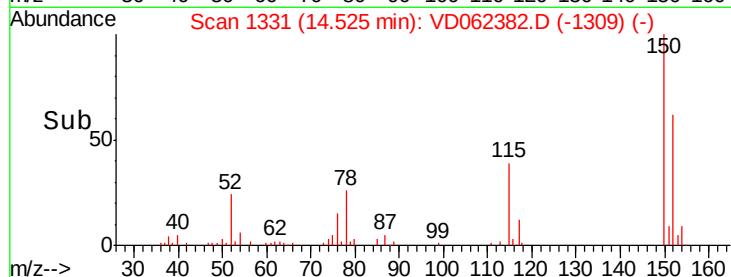
150 161.8 0.0 314.8



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: 34.498 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD062382.D

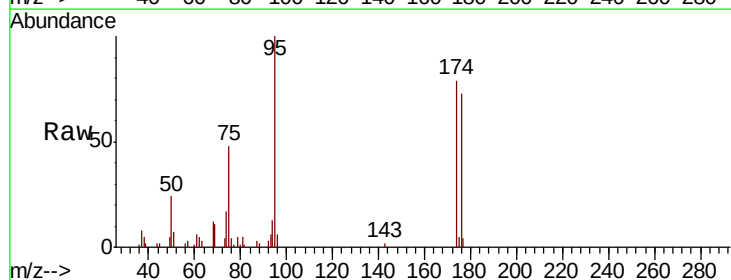
Acq: 15 May 2019 9:04

Tgt Ion: 75 Resp: 20280

Ion Ratio Lower Upper

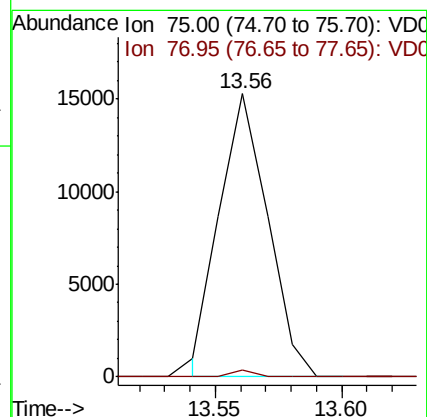
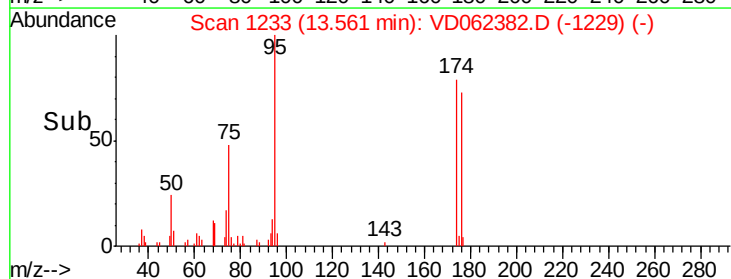
75 100

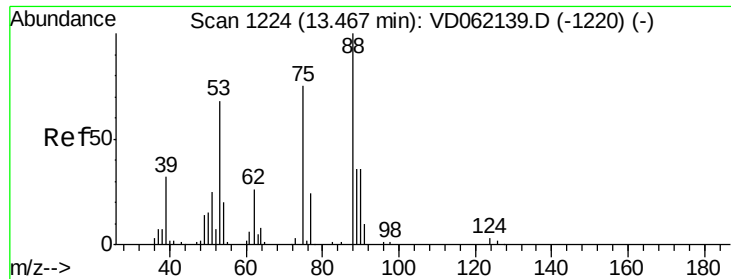
77 2.4 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 125.828 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062382.D

Acq: 15 May 2019 9:04

Instrument :

MSVOA_D

ClientSampleId :

RT-3456

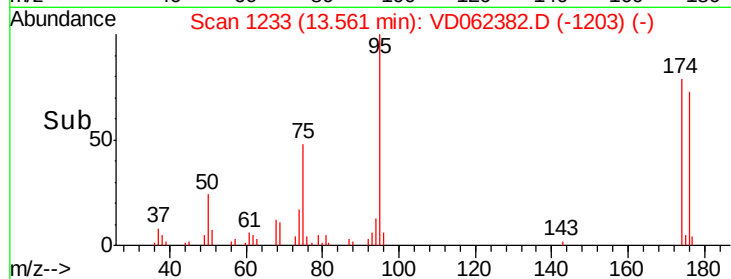
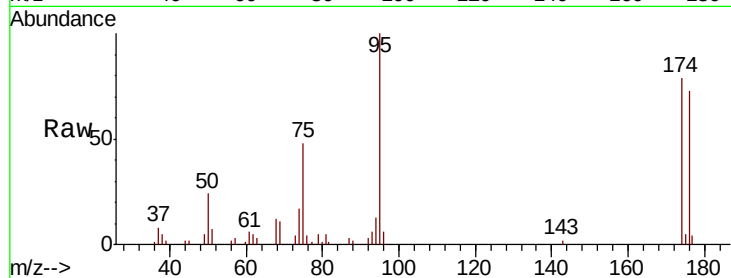
Tgt Ion: 75 Resp: 20882

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

