

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD033119\
 Data File : VD061461.D
 Acq On : 31 Mar 2019 21:51
 Operator : VA/AP
 Sample : K2132-04RE
 Misc : 9.64g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 01:56:42 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	7.07	168	357587	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.24	114	637465	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.38	117	509927	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	229154	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	201550	65.98	ug/l	0.04
Spiked Amount			Recovery	=	131.96%	
35) Dibromofluoromethane	6.95	113	276053	56.67	ug/l	0.05
Spiked Amount			Recovery	=	113.34%	
50) Toluene-d8	10.42	98	599805	51.34	ug/l	0.04
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	13.56	95	222722	49.71	ug/l	0.02
Spiked Amount			Recovery	=	99.42%	

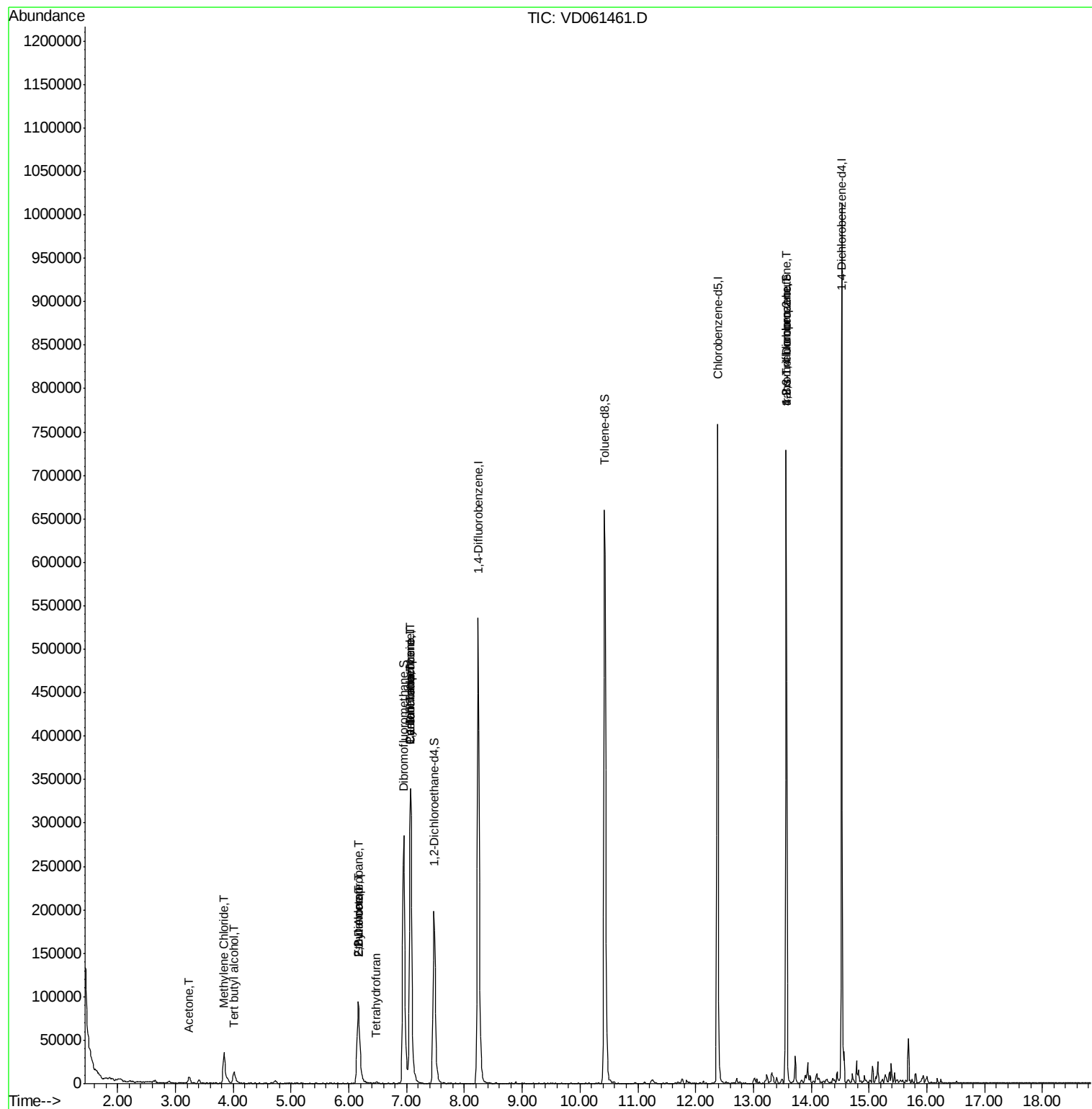
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.02	59	13498	70.955	ug/l #	76
16) Acetone	3.24	43	15964	20.330	ug/l	98
20) Methylene Chloride	3.84	84	27541	4.514	ug/l	97
25) 2-Butanone	6.16	43	5838	5.910	ug/l #	54
26) 2,2-Dichloropropane	6.17	77	6693	1.265	ug/l #	50
29) Tetrahydrofuran	6.49	42	1733	3.620	ug/l #	50
31) Cyclohexane	7.07	56	6150	1.169	ug/l #	1
36) 1,1-Dichloropropene	7.07	75	26828	4.822	ug/l #	46
37) Ethyl Acetate	6.16	43	5838	2.454	ug/l #	1
38) Carbon Tetrachloride	7.07	117	34424	5.385	ug/l #	13
76) 1,2,3-Trichloropropane	13.56	75	80660	24.367	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	83437	82.670	ug/l #	18

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

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Quant Time: Apr 01 01:56:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
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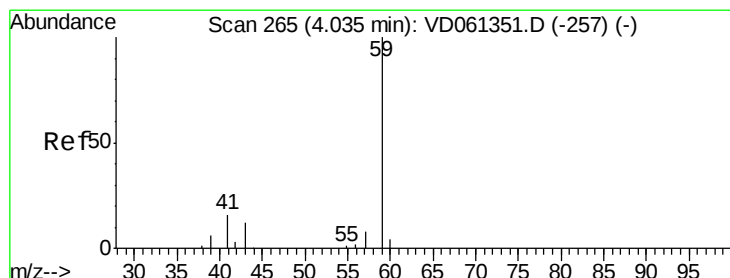
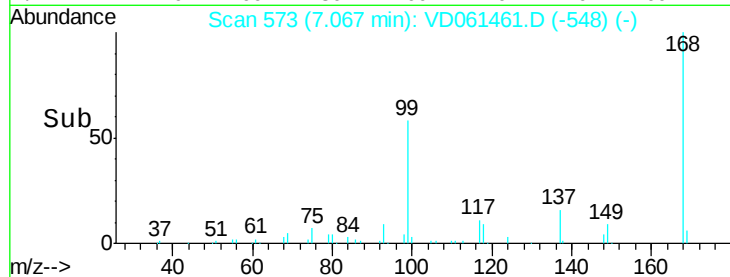
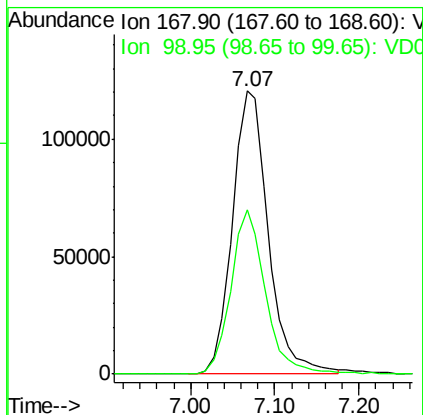
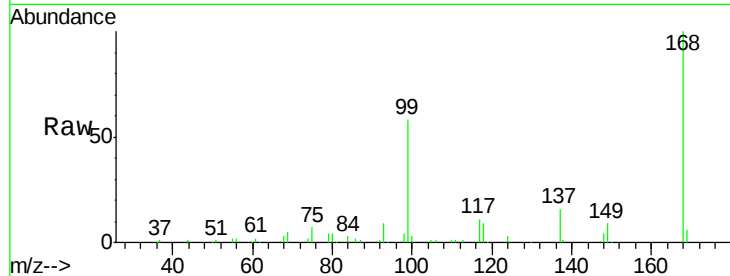


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. 0.05 min
 Lab File: VD061461.D
 Acq: 31 Mar 2019 21:51

Instrument :
 MSVOA_D
 ClientSampled :

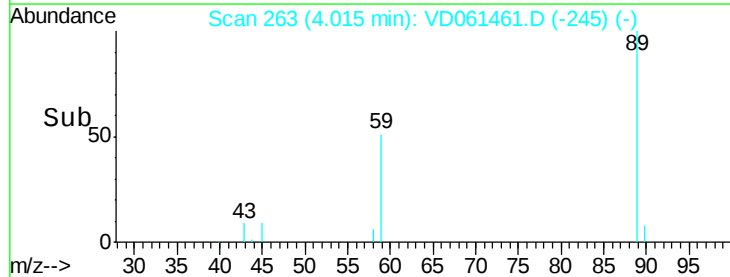
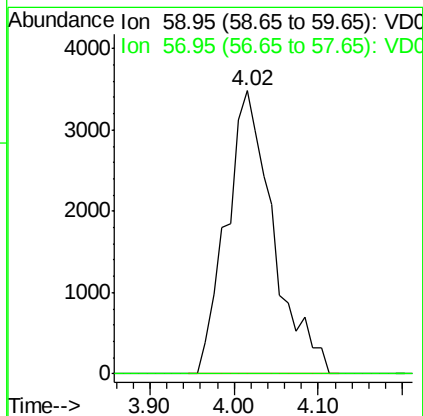
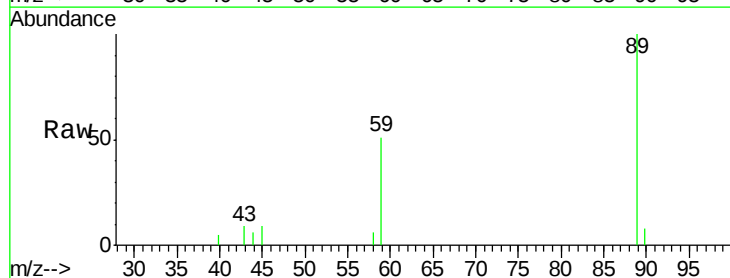
Tot Ion:168 Resp: 357587
 Ion Ratio Lower Upper
 168 100
 99 57.9 43.1 64.7



#11

Tert butyl alcohol
 Concen: 70.955 ug/l
 RT: 4.02 min Scan# 263
 Delta R.T. -0.02 min
 Lab File: VD061461.D
 Acq: 31 Mar 2019 21:51

Tgt Ion: 59 Resp: 13498
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#





#16

Acetone

Concen: 20.330 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

Instrument :

MSVOA_D

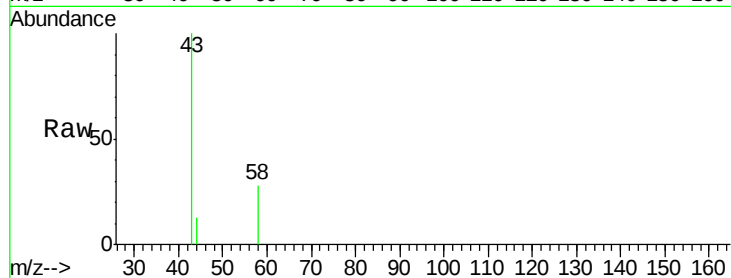
ClientSampleId :

Tot Ion: 43 Resp: 15964

Ion Ratio Lower Upper

43 100

58 27.9 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.24

6000

5000

4000

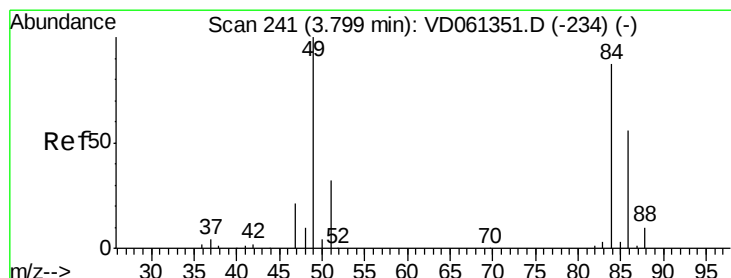
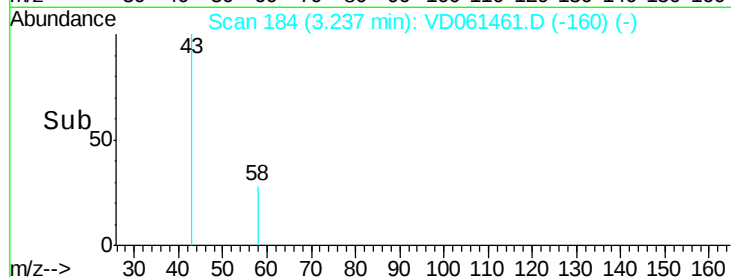
3000

2000

1000

0

Time--> 3.10 3.20 3.30 3.40



#20

Methylene Chloride

Concen: 4.514 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.04 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

Tgt Ion: 84 Resp: 27541

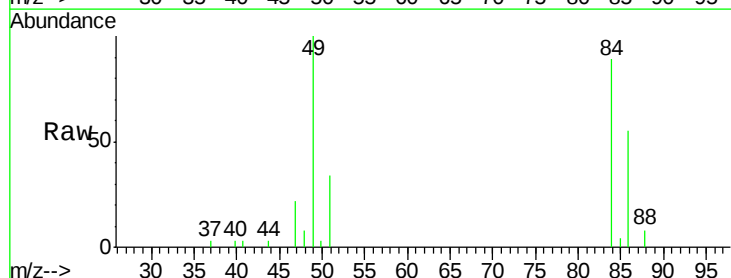
Ion Ratio Lower Upper

84 100

49 112.3 91.8 137.8

51 38.6 29.8 44.8

86 61.6 51.8 77.6



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

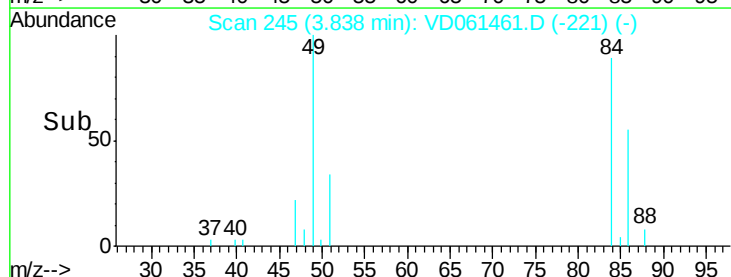
15000

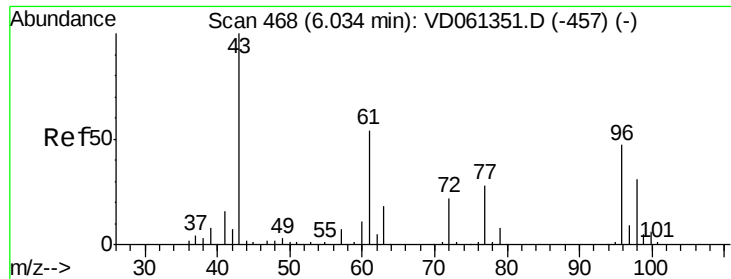
10000

5000

0

Time--> 3.70 3.80 3.90 4.00

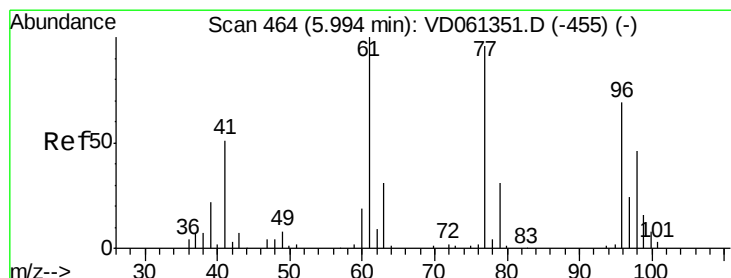
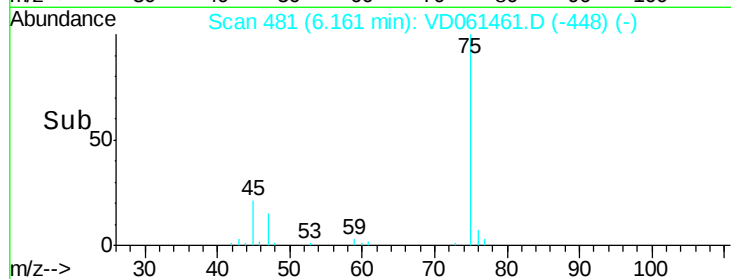
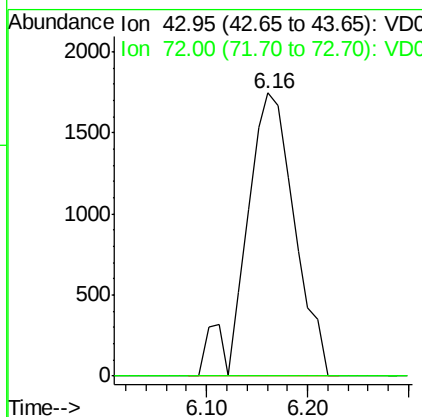
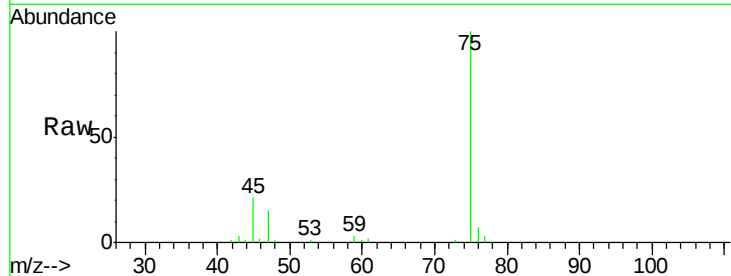




#25
 2-Butanone
 Concen: 5.910 ug/l
 RT: 6.16 min Scan# 481
 Delta R.T. 0.13 min
 Lab File: VD061461.D
 Acq: 31 Mar 2019 21:51

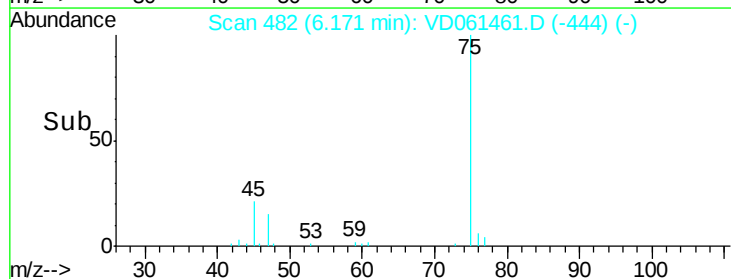
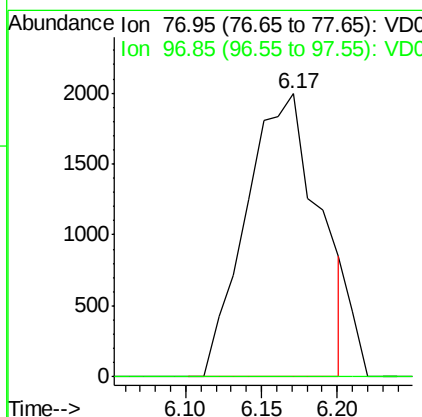
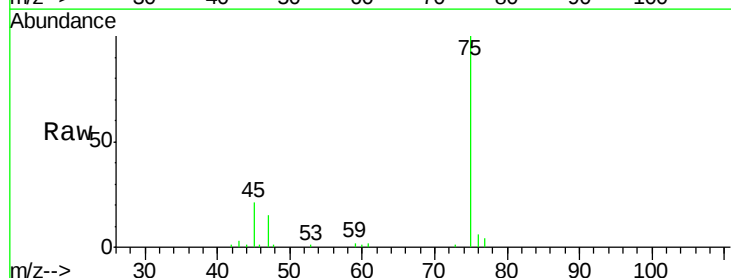
Instrument :
 MSVOA_D
 ClientSampleId :

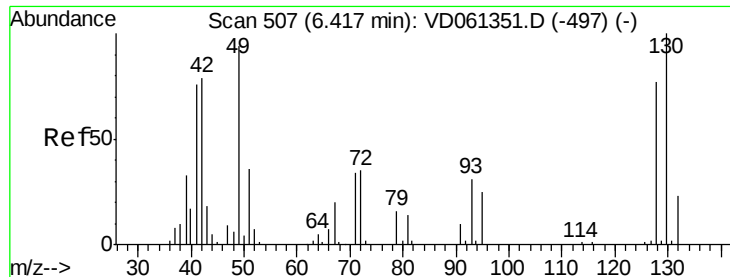
Tot Ion: 43 Resp: 5838
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.2 25.8#



#26
 2,2-Dichloropropane
 Concen: 1.265 ug/l
 RT: 6.17 min Scan# 482
 Delta R.T. 0.18 min
 Lab File: VD061461.D
 Acq: 31 Mar 2019 21:51

Tgt Ion: 77 Resp: 6693
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.7 38.0#





#29

Tetrahydrofuran

Concen: 3.620 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.07 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

Instrument :

MSVOA_D

ClientSampled :

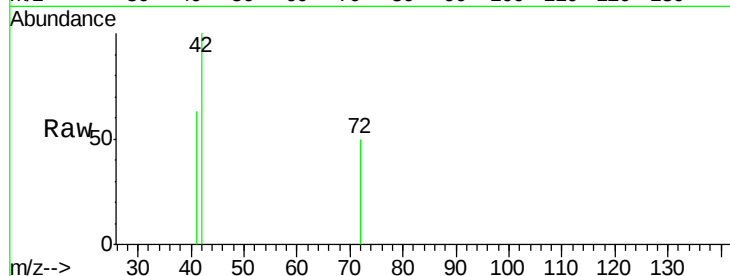
Tot Ion: 42 Resp: 1733

Ion Ratio Lower Upper

42 100

72 15.8 37.4 56.0#

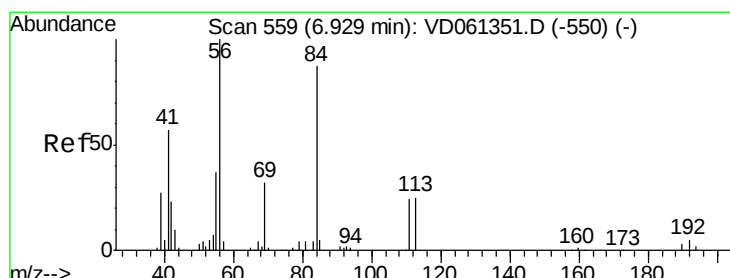
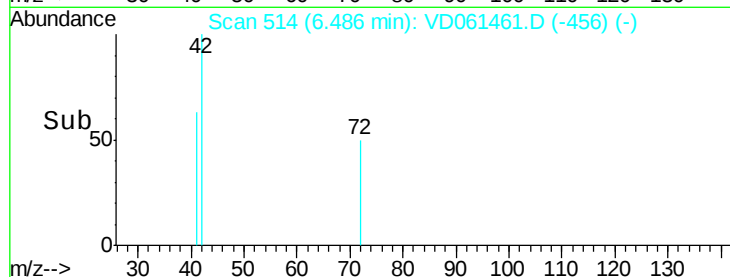
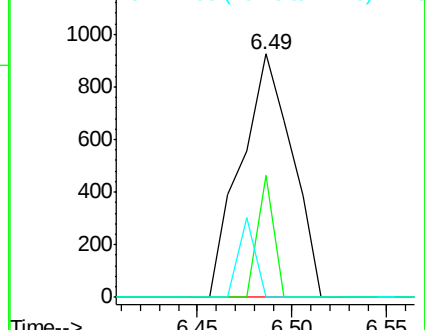
71 10.3 36.7 55.1#



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: 1.169 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.14 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

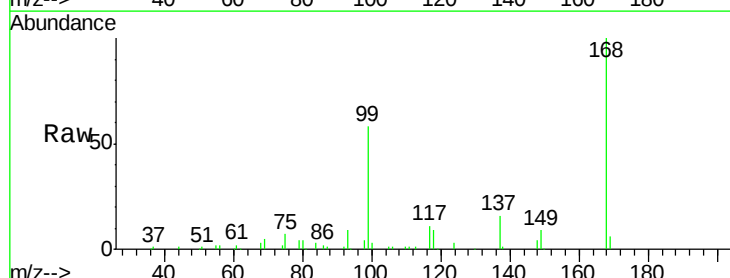
Tgt Ion: 56 Resp: 6150

Ion Ratio Lower Upper

56 100

69 300.6 25.7 38.5#

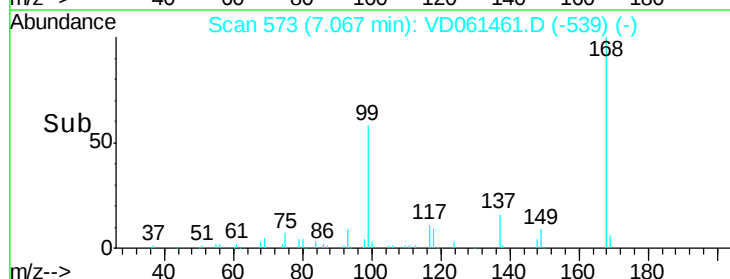
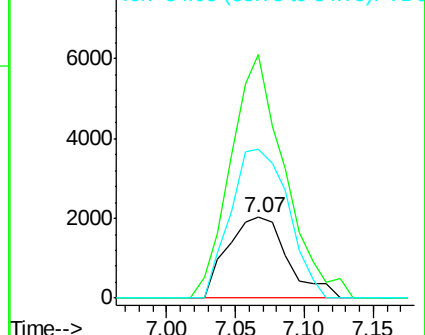
84 183.9 70.6 105.8#

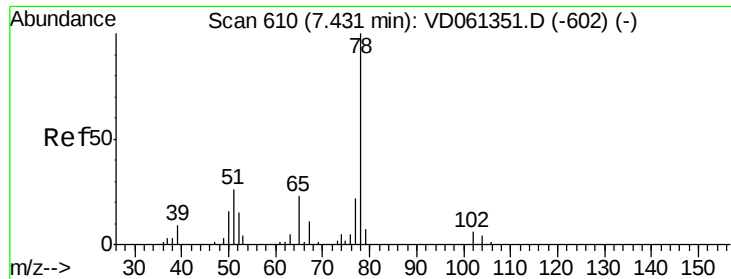


Abundance Ion 55.95 (55.65 to 56.65): VDC

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: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

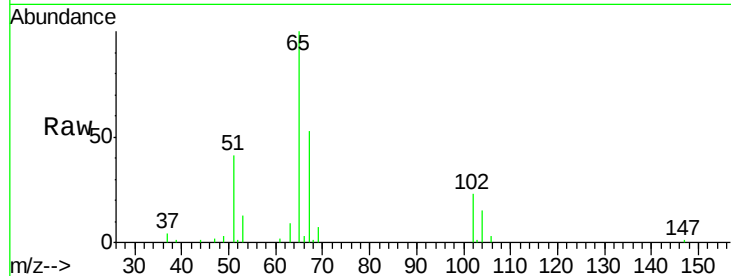
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 201550

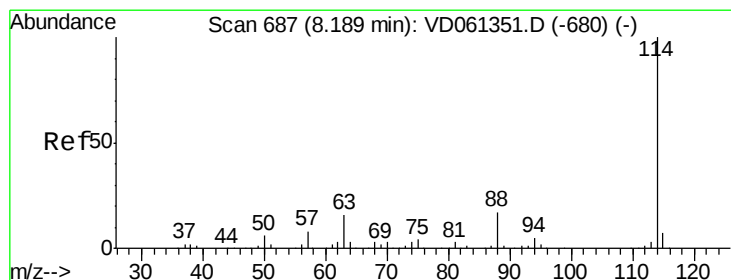
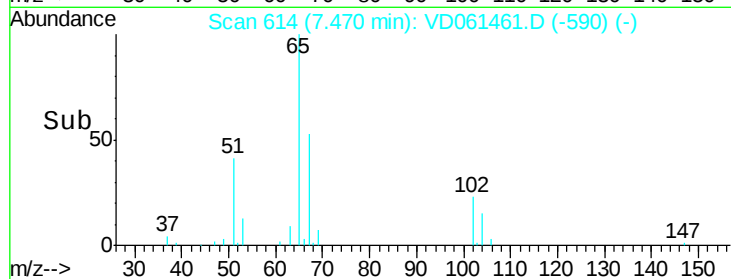
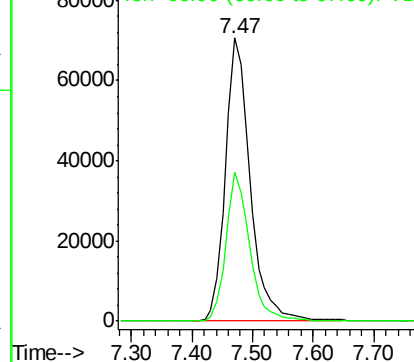
Ion Ratio Lower Upper

65 100

67 52.5 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.05 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

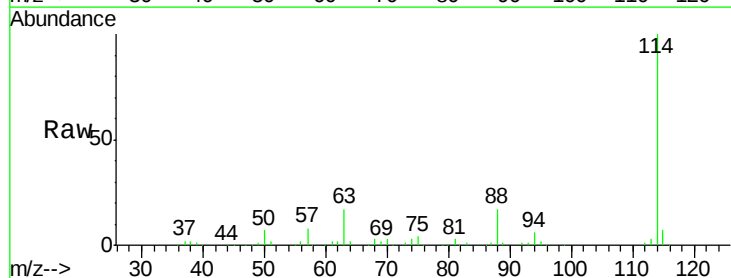
Tgt Ion: 114 Resp: 637465

Ion Ratio Lower Upper

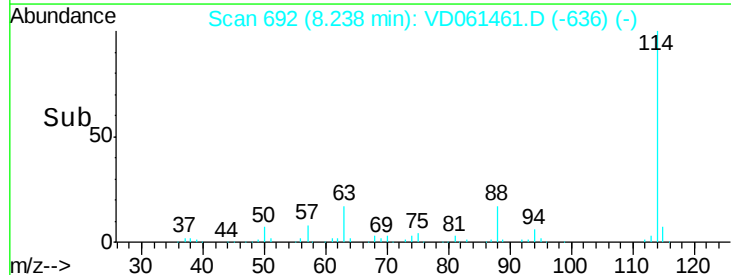
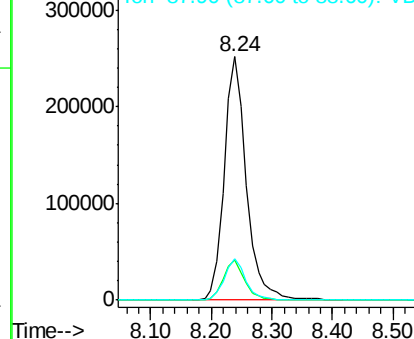
114 100

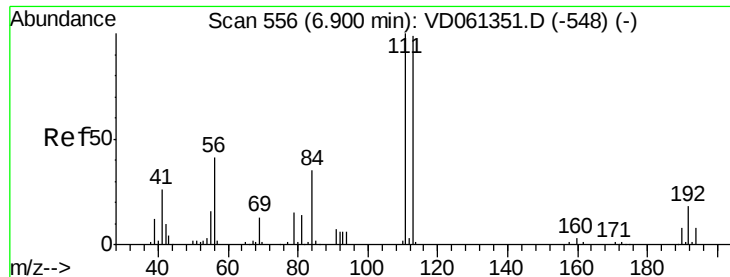
63 16.6 0.0 31.6

88 16.9 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): VDC
Ion 87.90 (87.60 to 88.60): VDC

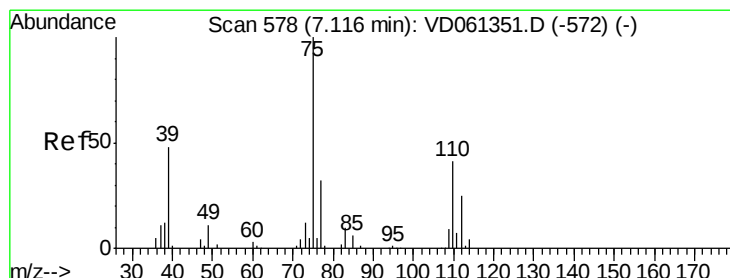
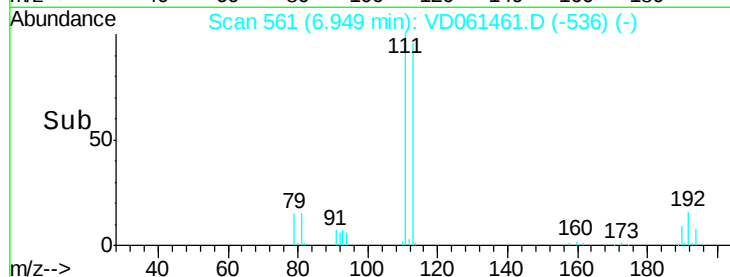
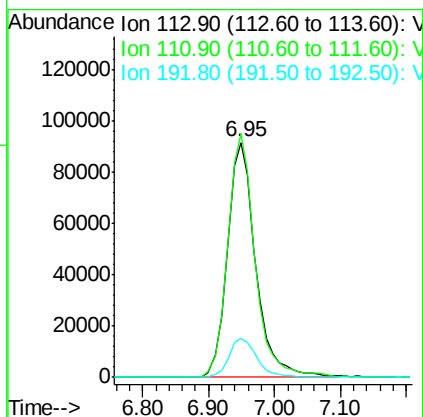
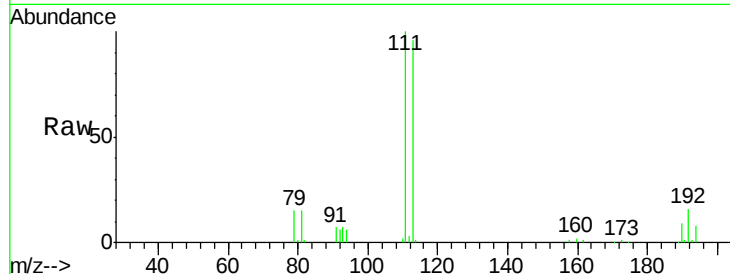




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.05 min
 Lab File: VD061461.D
 Acq: 31 Mar 2019 21:51

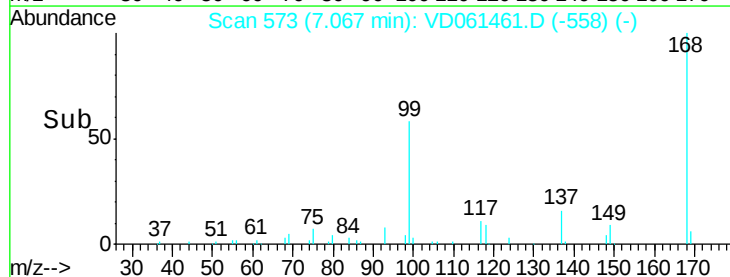
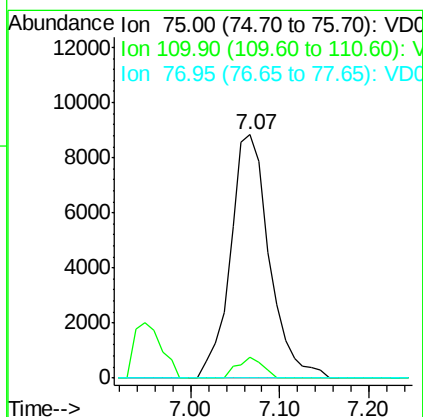
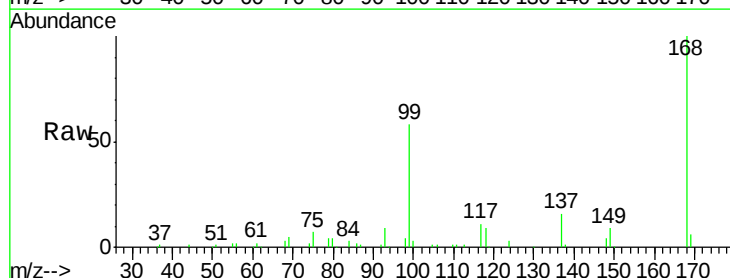
Instrument :
 MSVOA_D
 ClientSampleId :

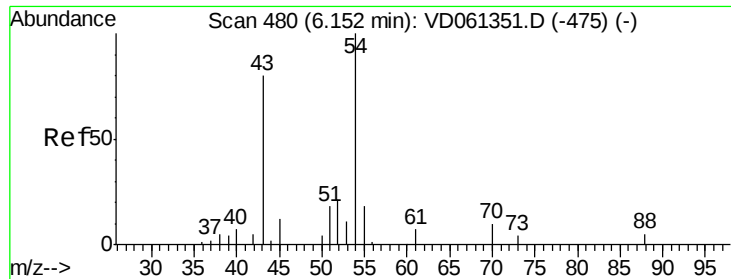
Tot Ion:113 Resp: 276053
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.0 121.6
 192 16.6 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 4.822 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. -0.05 min
 Lab File: VD061461.D
 Acq: 31 Mar 2019 21:51

Tgt Ion: 75 Resp: 26828
 Ion Ratio Lower Upper
 75 100
 110 8.5 20.4 61.3#
 77 0.0 24.9 37.3#

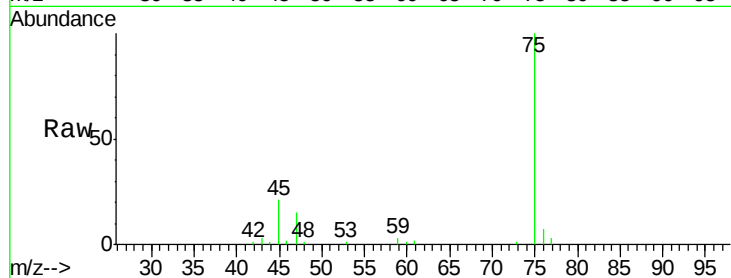




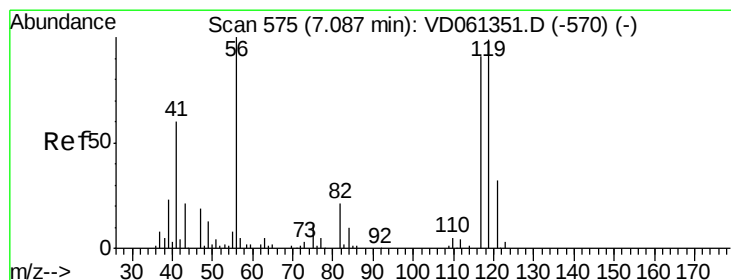
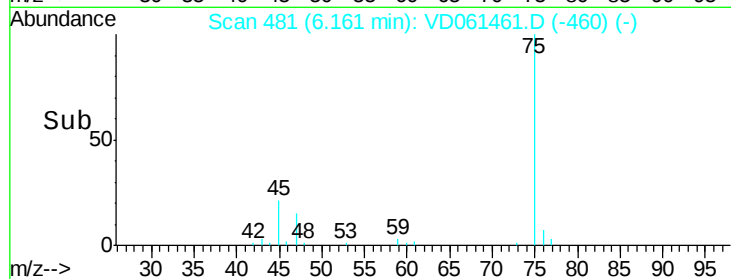
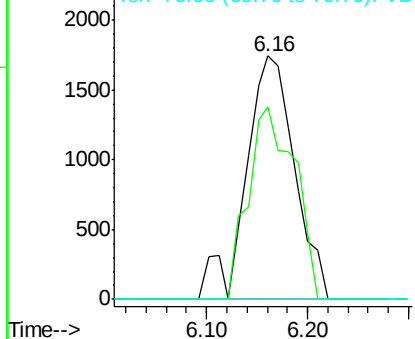
#37
Ethyl Acetate
Concen: 2.454 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.01 min
Lab File: VD061461.D
Acq: 31 Mar 2019 21:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 5838
Ion Ratio Lower Upper
43 100
61 78.8 13.8 20.8#
70 0.0 7.8 11.8#

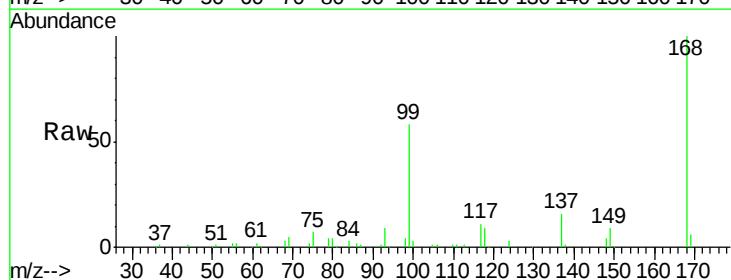


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

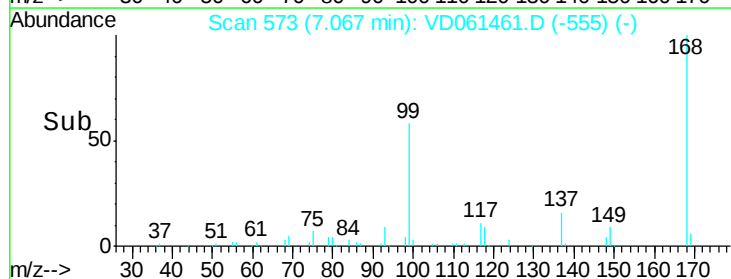
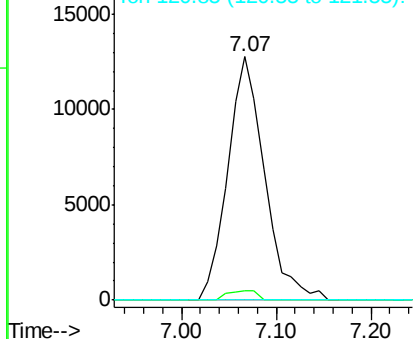


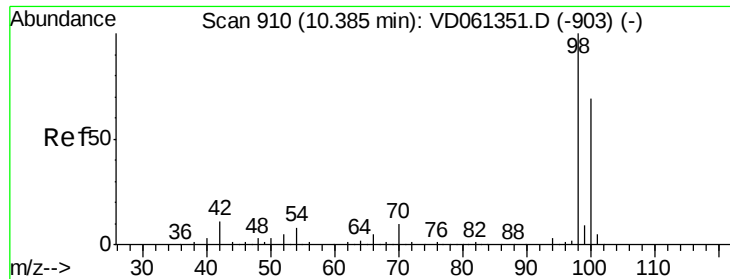
#38
Carbon Tetrachloride
Concen: 5.385 ug/l
RT: 7.07 min Scan# 573
Delta R.T. -0.02 min
Lab File: VD061461.D
Acq: 31 Mar 2019 21:51

Tgt Ion: 117 Resp: 34424
Ion Ratio Lower Upper
117 100
119 3.6 80.1 120.1#
121 0.0 25.6 38.4#



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: N.D. ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.04 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

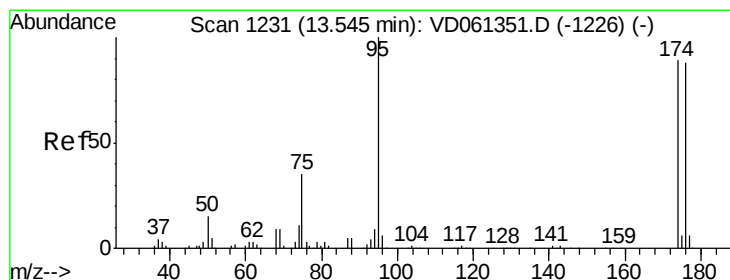
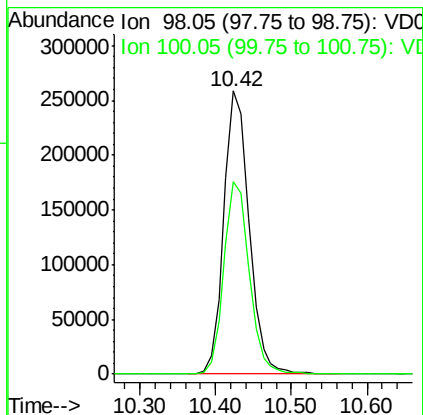
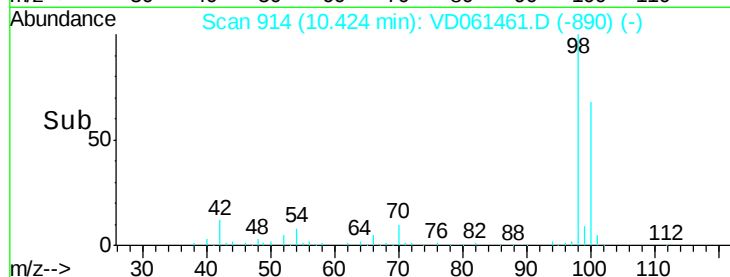
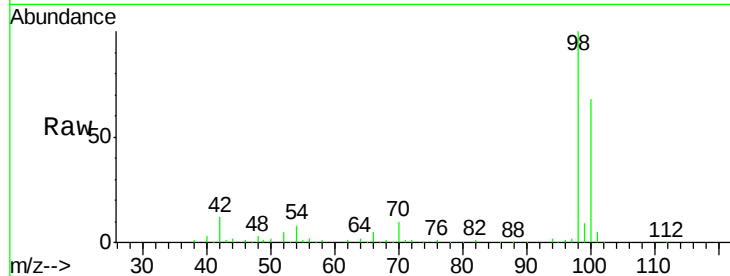
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 599805

Ion Ratio Lower Upper

98 100

100 67.8 56.2 84.2



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

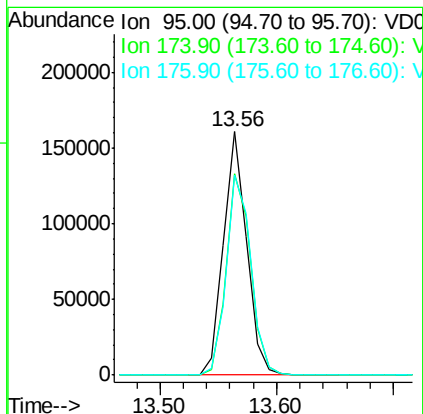
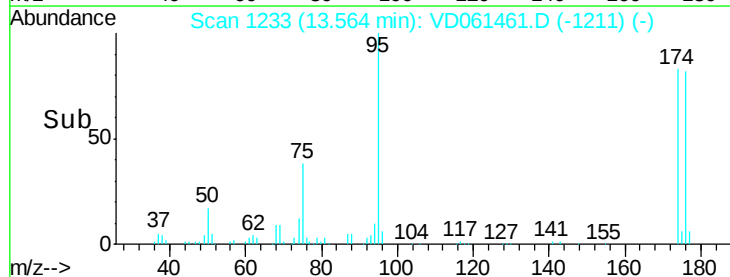
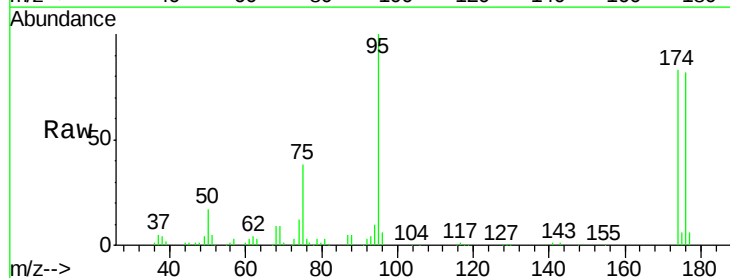
Tgt Ion: 95 Resp: 222722

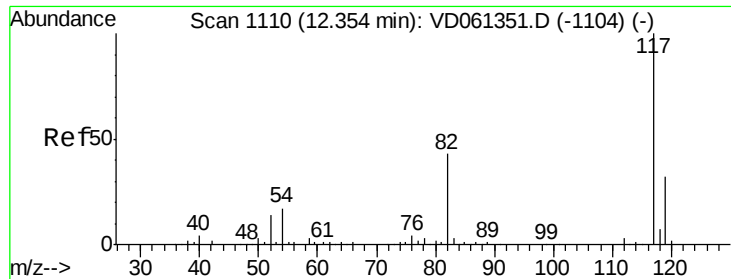
Ion Ratio Lower Upper

95 100

174 82.7 0.0 178.0

176 82.2 0.0 175.0

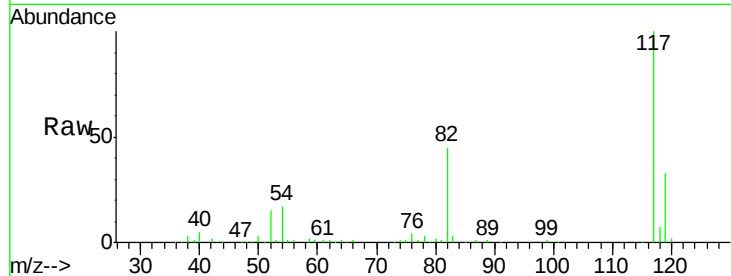




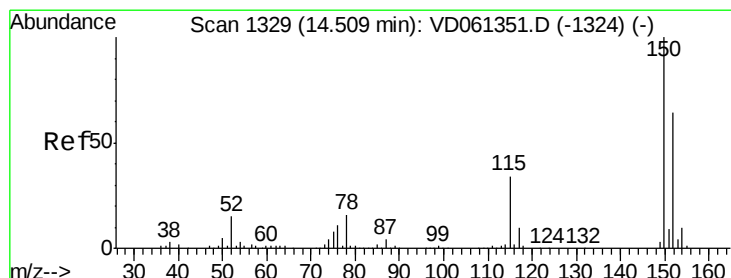
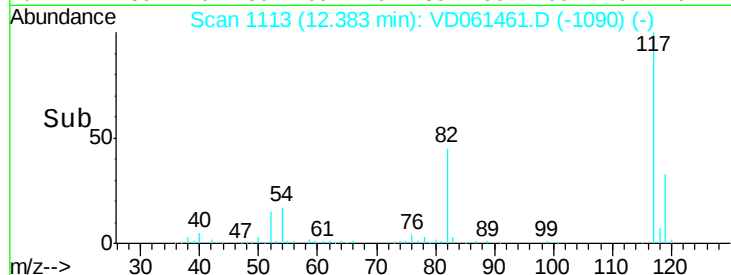
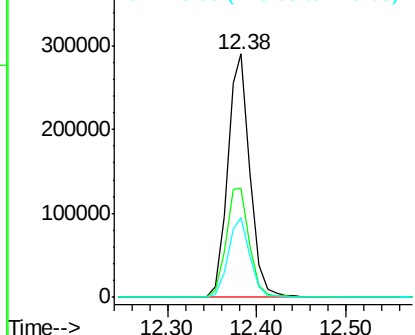
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.03 min
Lab File: VD061461.D
Acq: 31 Mar 2019 21:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 509927
Ion Ratio Lower Upper
117 100
82 45.0 34.4 51.6
119 32.5 25.8 38.6

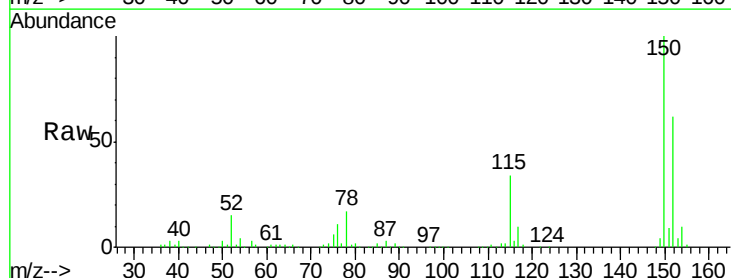


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

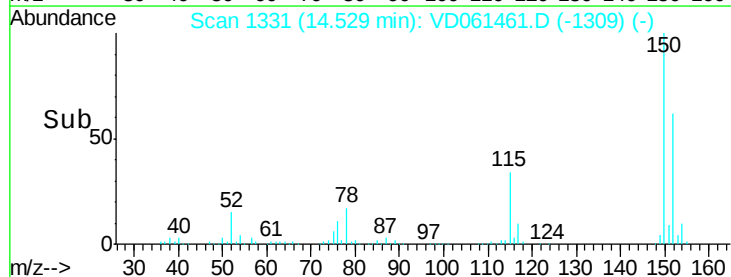
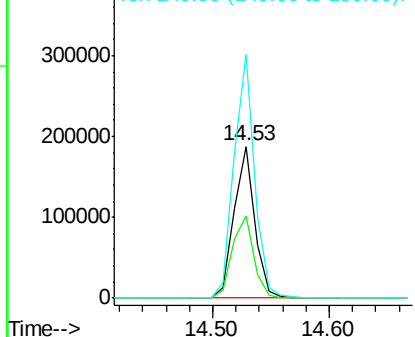


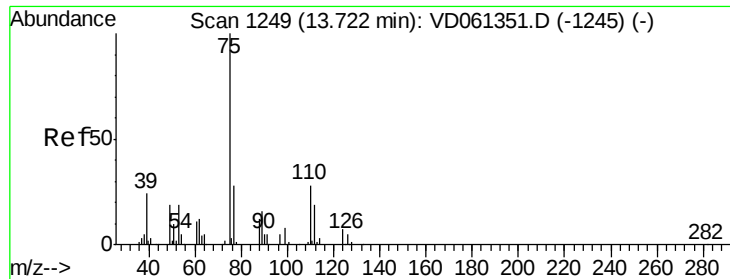
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD061461.D
Acq: 31 Mar 2019 21:51

Tgt Ion:152 Resp: 229154
Ion Ratio Lower Upper
152 100
115 54.0 26.9 80.6
150 160.4 0.0 318.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.367 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

Instrument :

MSVOA_D

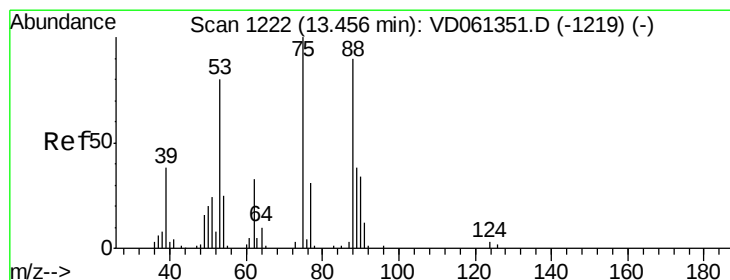
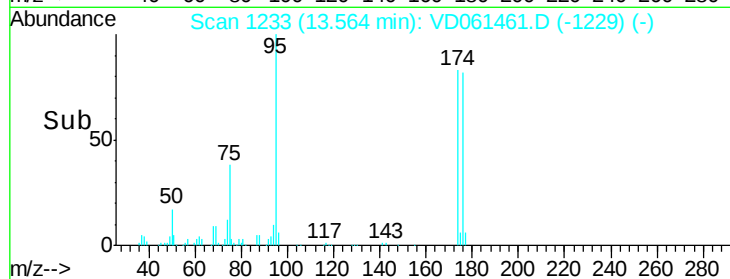
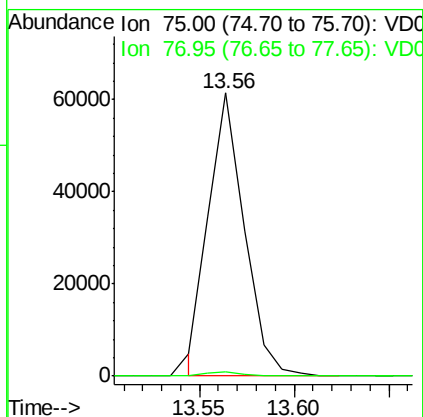
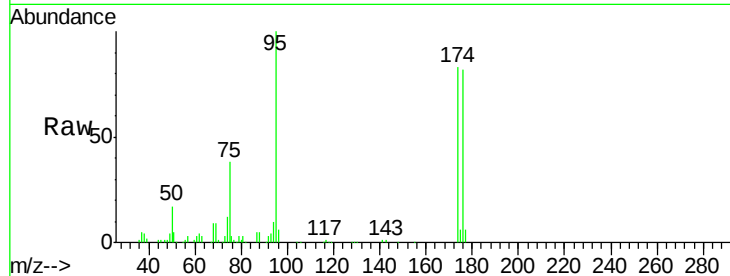
ClientSampleId :

Tot Ion: 75 Resp: 80660

Ion Ratio Lower Upper

75 100

77 1.6 16.2 48.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.670 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.11 min

Lab File: VD061461.D

Acq: 31 Mar 2019 21:51

Tgt Ion: 75 Resp: 83437

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#

