

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041019\
 Data File : VD061719.D
 Acq On : 10 Apr 2019 18:05
 Operator : VA/AP
 Sample : K2316-07RE
 Misc : 5.05µl/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 11 01:08:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	451380	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	760041	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	533743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	163167	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	189434	55.37	ug/l	0.00
Spiked Amount			Recovery	=	110.74%	
35) Dibromofluoromethane	6.94	113	45790	8.70	ug/l	0.02
Spiked Amount			Recovery	=	17.40%	
50) Toluene-d8	10.41	98	677782	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	13.56	95	203089	42.28	ug/l	0.00
Spiked Amount			Recovery	=	84.56%	

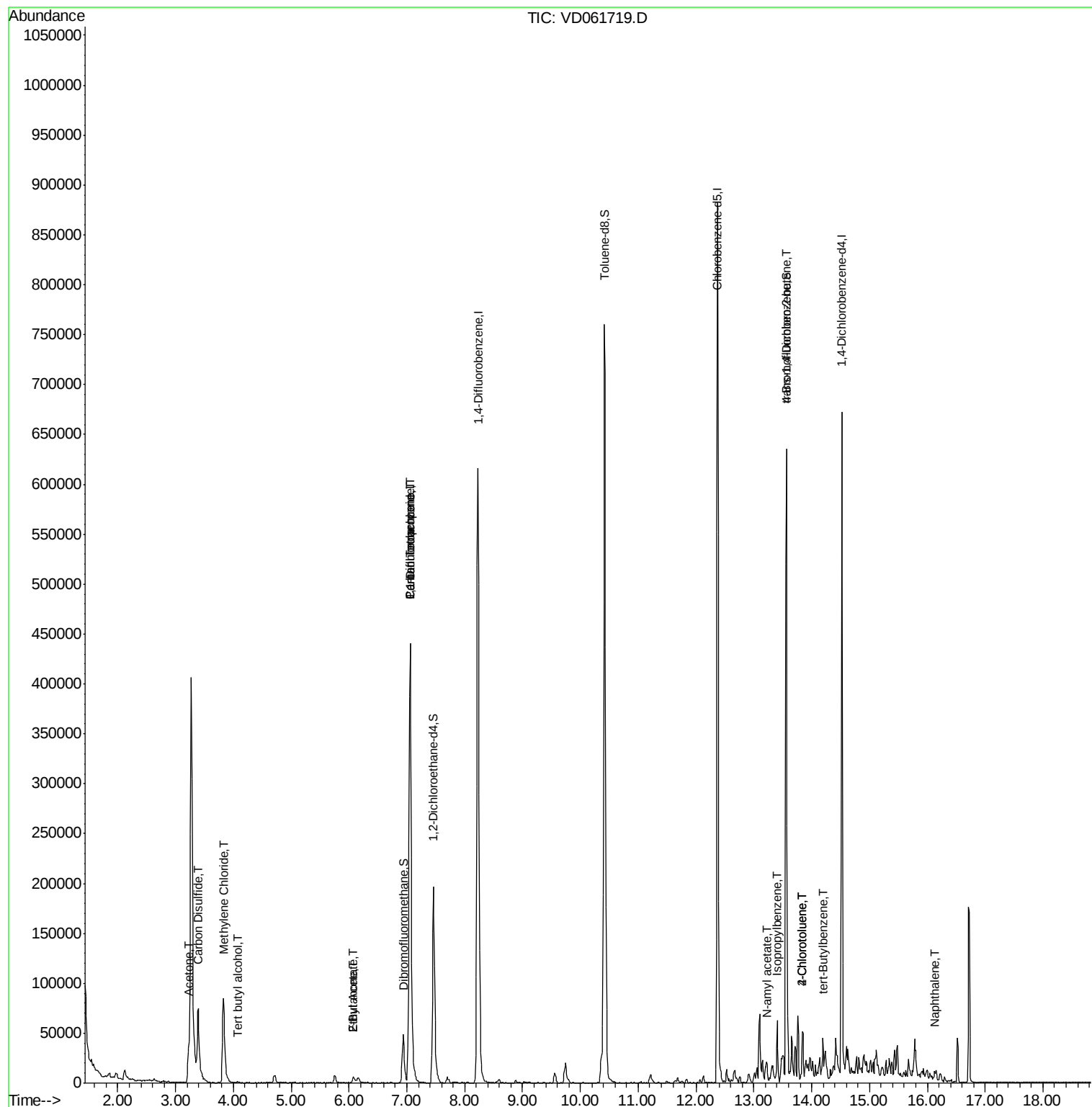
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	253	1.103	ug/l #	72
16) Acetone	3.23	43	64907	63.461	ug/l	97
17) Carbon Disulfide	3.39	76	130486	8.534	ug/l	100
20) Methylene Chloride	3.83	84	61890	10.664	ug/l	94
25) 2-Butanone	6.07	43	13893	11.783	ug/l #	89
36) 1,1-Dichloropropene	7.06	75	31702	4.766	ug/l #	45
37) Ethyl Acetate	6.07	43	13893	5.128	ug/l #	68
38) Carbon Tetrachloride	7.06	117	42528	5.455	ug/l #	15
73) Isopropylbenzene	13.41	105	36887	3.393	ug/l	94
74) N-amyl acetate	13.23	43	4642	1.571	ug/l #	49
79) 2-Chlorotoluene	13.84	91	23140	3.111	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.56	75	75043	111.400	ug/l #	20
82) 4-Chlorotoluene	13.84	91	23140	2.839	ug/l	95
83) tert-Butylbenzene	14.19	119	12800	1.230	ug/l	96
95) Naphthalene	16.12	128	5543	1.536	ug/l	99

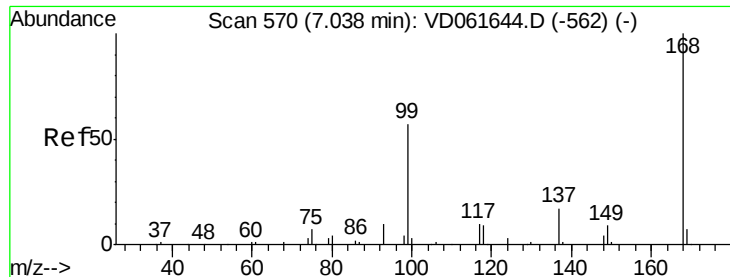
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

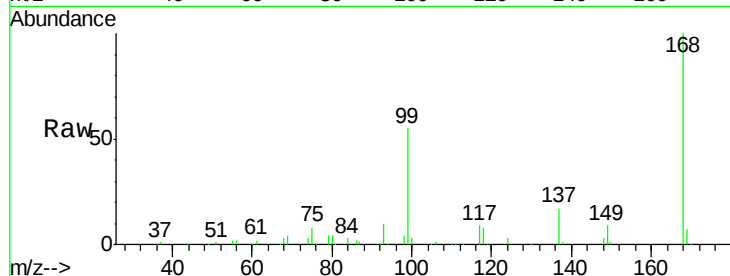
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 451380

Ion Ratio Lower Upper

168 100

99 54.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

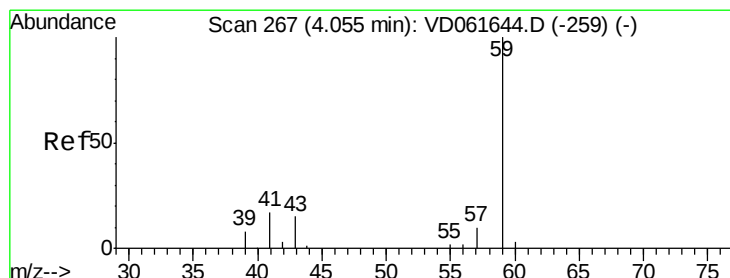
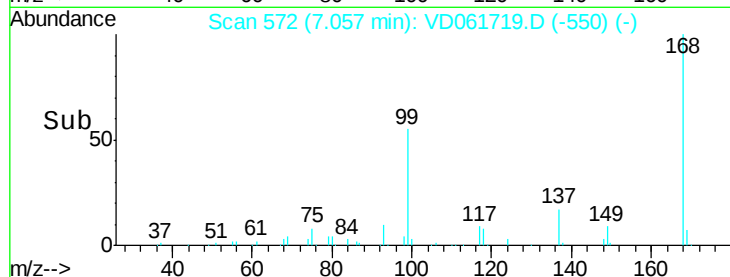
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.103 ug/l

RT: 4.07 min Scan# 269

Delta R.T. 0.02 min

Lab File: VD061719.D

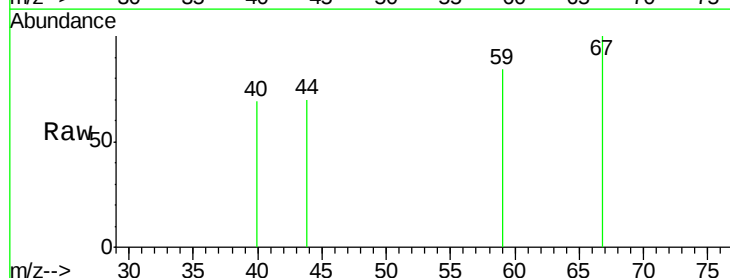
Acq: 10 Apr 2019 18:05

Tgt Ion: 59 Resp: 253

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.07

500

400

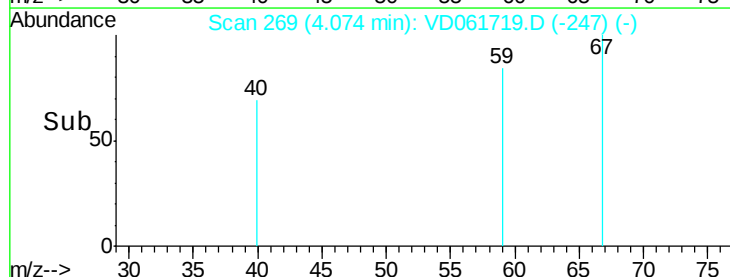
300

200

100

0

Time--> 4.04 4.06 4.08 4.10





#16

Acetone

Concen: 63.461 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

Instrument :

MSVOA_D

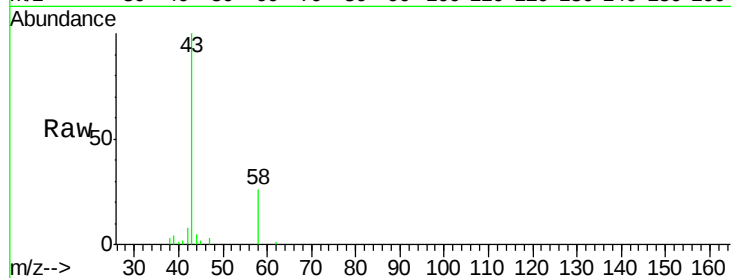
ClientSampleId :

Tot Ion: 43 Resp: 64907

Ion Ratio Lower Upper

43 100

58 26.3 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

25000

20000

15000

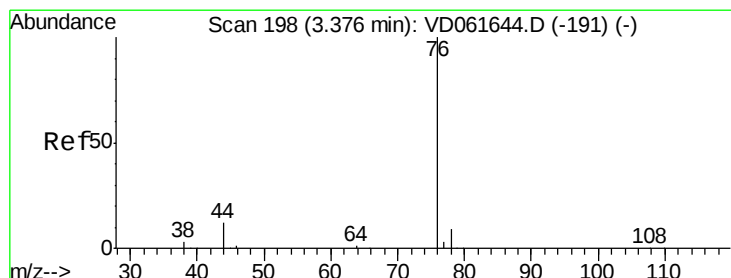
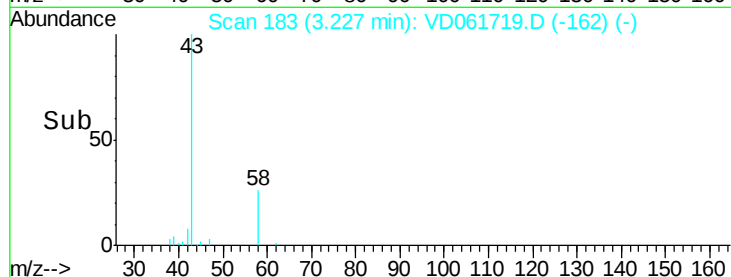
10000

5000

0

Time-->

3.10 3.20 3.30



#17

Carbon Disulfide

Concen: 8.534 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.02 min

Lab File: VD061719.D

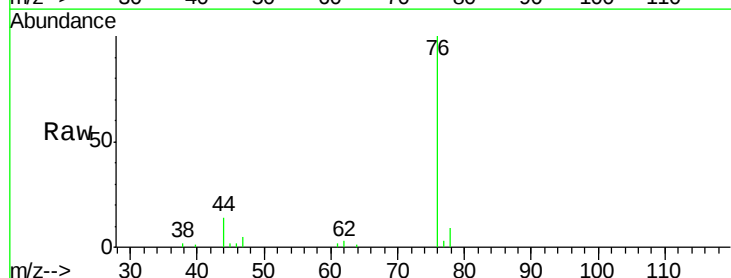
Acq: 10 Apr 2019 18:05

Tgt Ion: 76 Resp: 130486

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.39

60000

50000

40000

30000

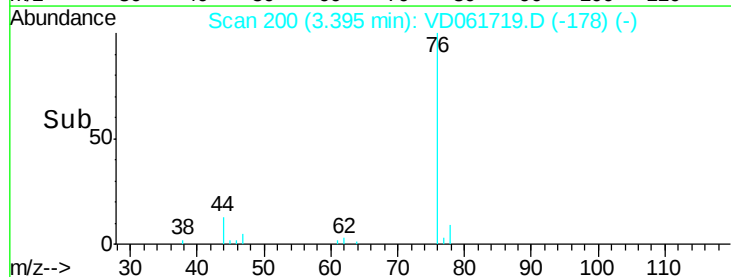
20000

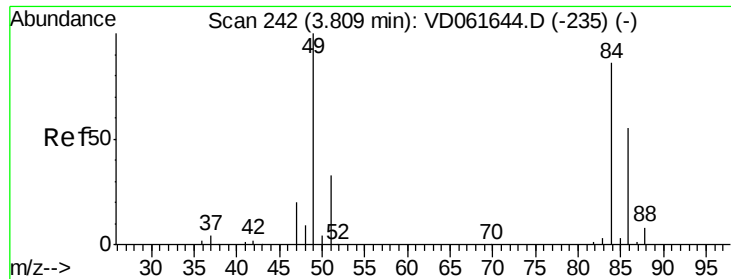
10000

0

Time-->

3.30 3.40 3.50 3.60

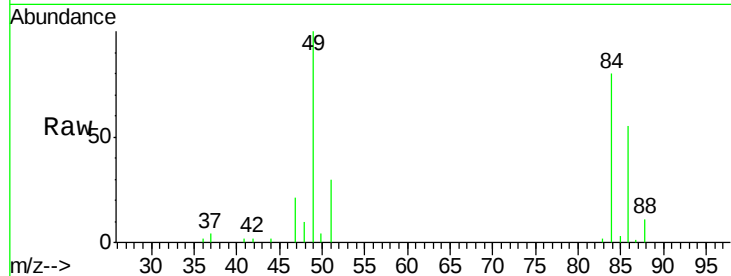




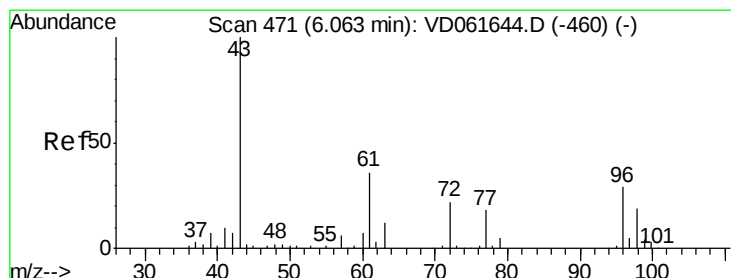
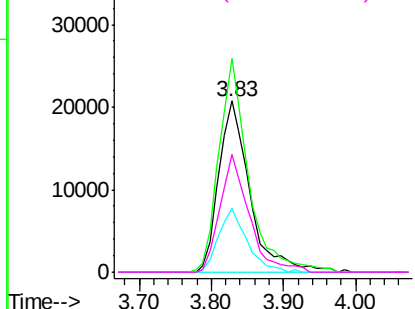
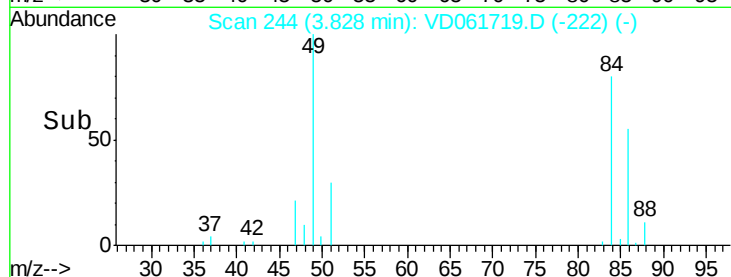
#20
Methylene Chloride
Concen: 10.664 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 61890
Ion Ratio Lower Upper
84 100
49 124.8 93.0 139.4
51 37.4 30.4 45.6
86 68.8 51.0 76.4

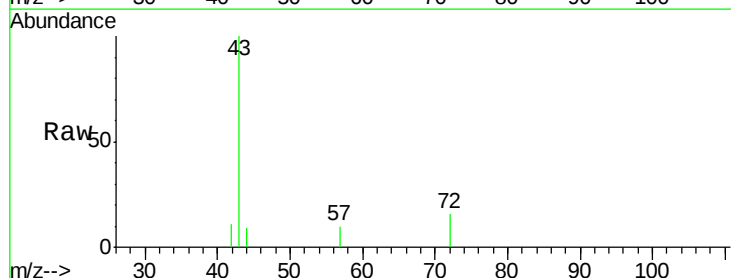


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

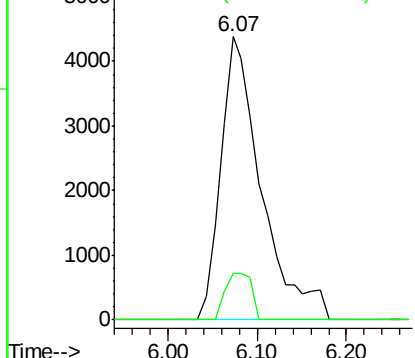
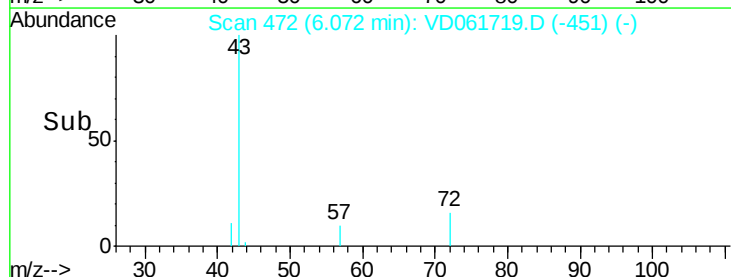


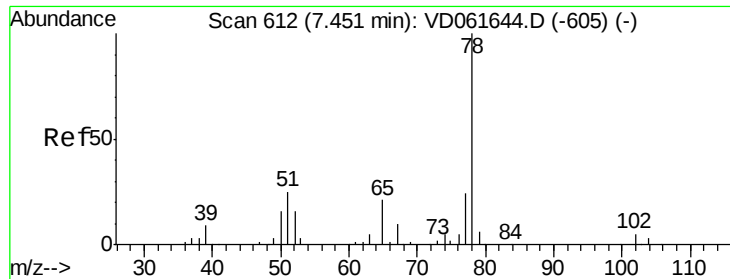
#25
2-Butanone
Concen: 11.783 ug/l
RT: 6.07 min Scan# 472
Delta R.T. 0.01 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Tgt Ion: 43 Resp: 13893
Ion Ratio Lower Upper
43 100
72 16.4 17.4 26.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

Instrument :

MSVOA_D

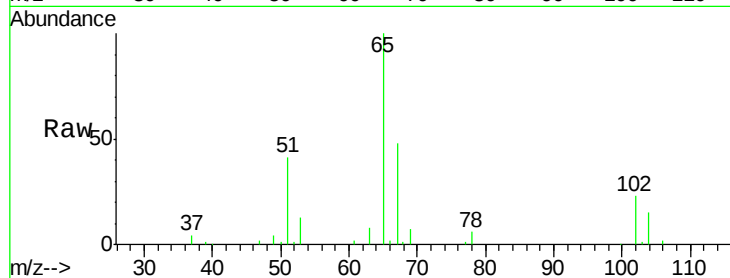
ClientSampleId :

Tot Ion: 65 Resp: 189434

Ion Ratio Lower Upper

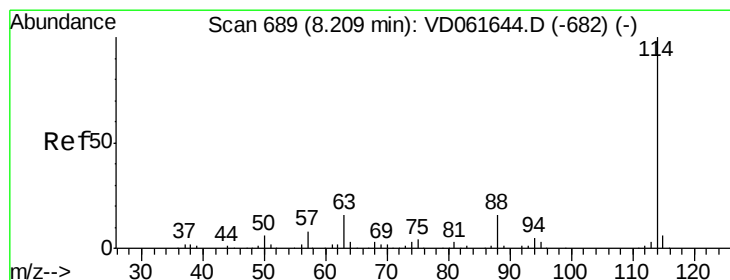
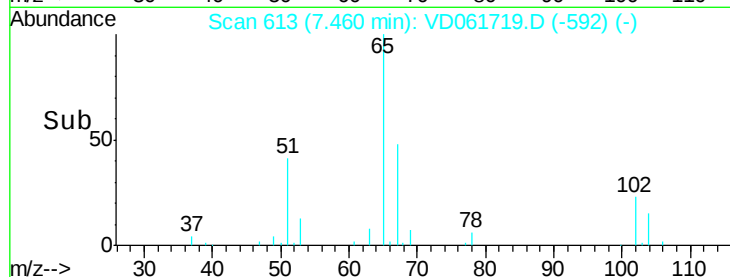
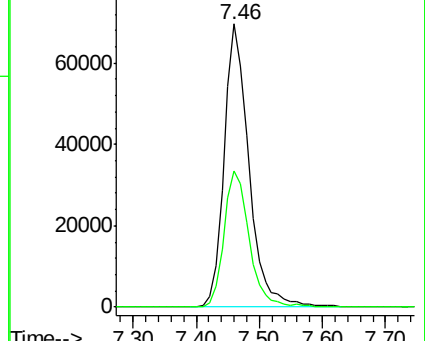
65 100

67 48.2 0.0 99.4



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# 691

Delta R.T. 0.02 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

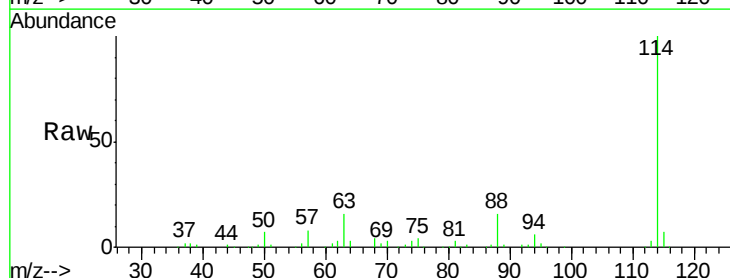
Tgt Ion: 114 Resp: 760041

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.2

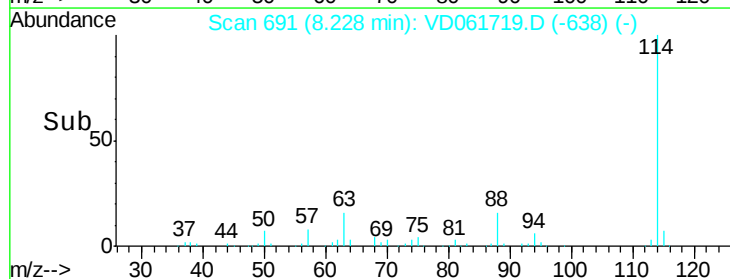
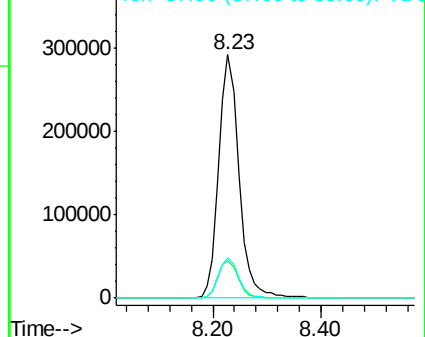
88 16.4 0.0 31.8

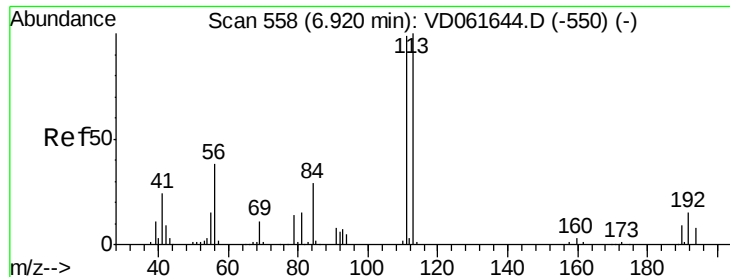


Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.94 min Scan# 560

Delta R.T. 0.02 min

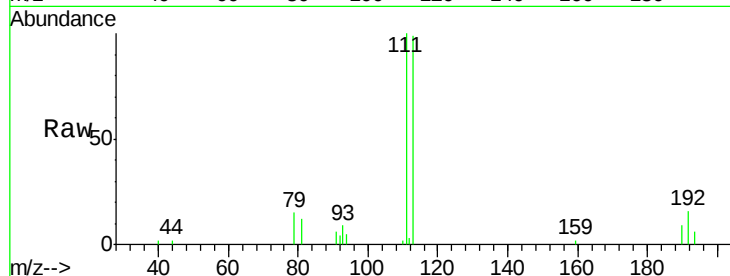
Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

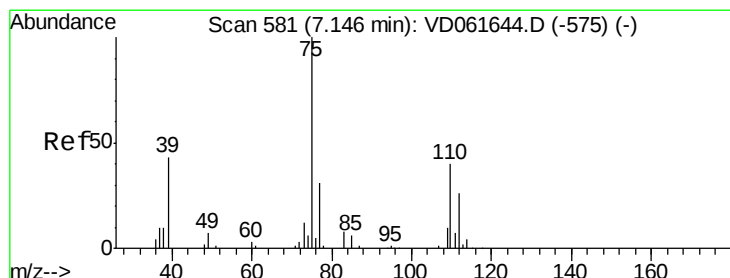
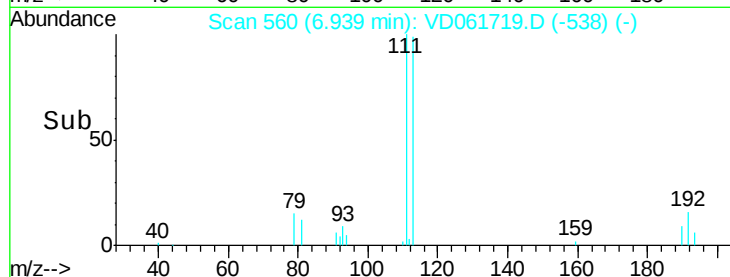
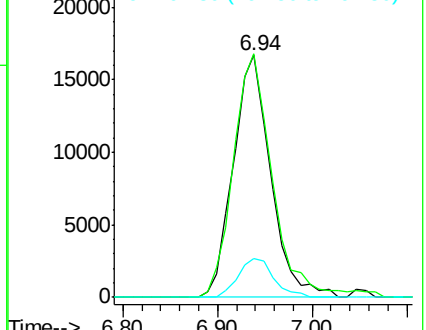
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:113 Resp: 45790

Ion	Ratio	Lower	Upper
113	100		
111	100.6	79.3	118.9
192	16.2	12.3	18.5



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: 4.766 ug/l

RT: 7.06 min Scan# 572

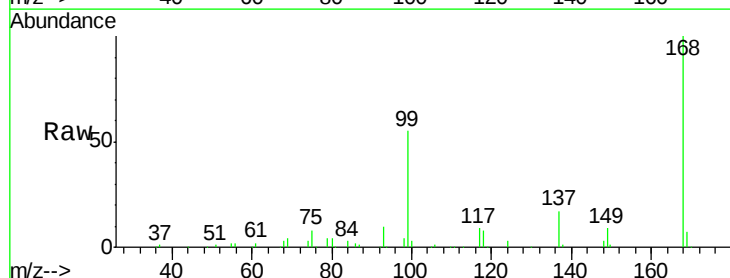
Delta R.T. -0.09 min

Lab File: VD061719.D

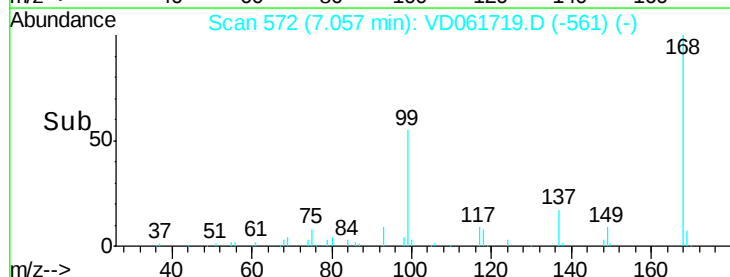
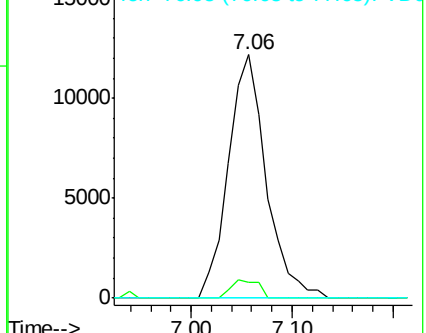
Acq: 10 Apr 2019 18:05

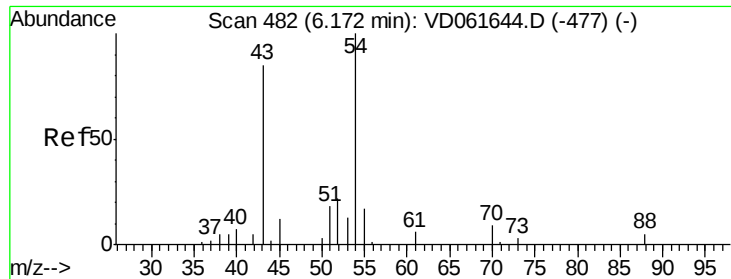
Tgt Ion: 75 Resp: 31702

Ion	Ratio	Lower	Upper
75	100		
110	6.6	19.7	59.0#
77	0.0	24.8	37.2#



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

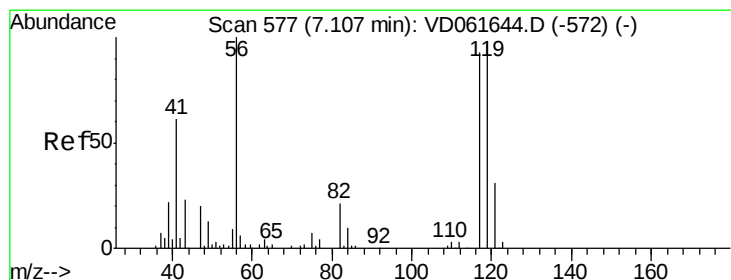
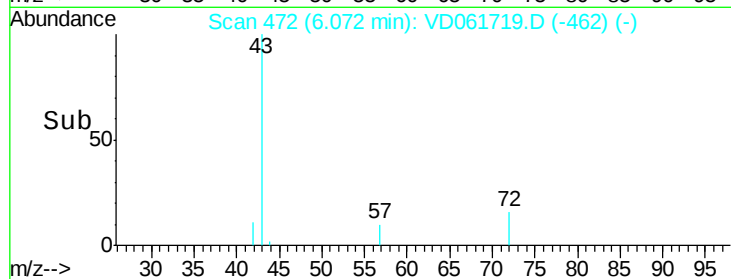
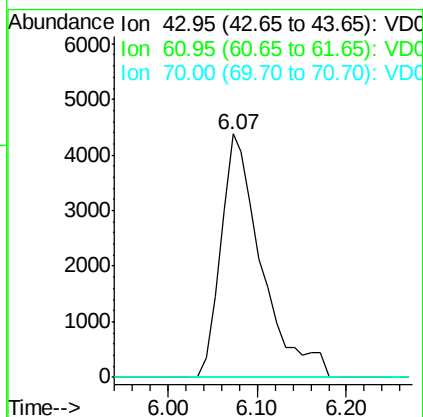
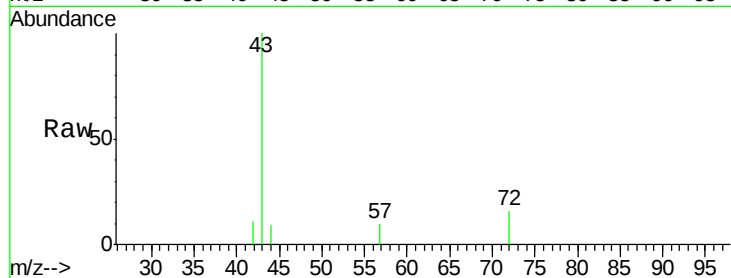




#37
Ethyl Acetate
Concen: 5.128 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.10 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

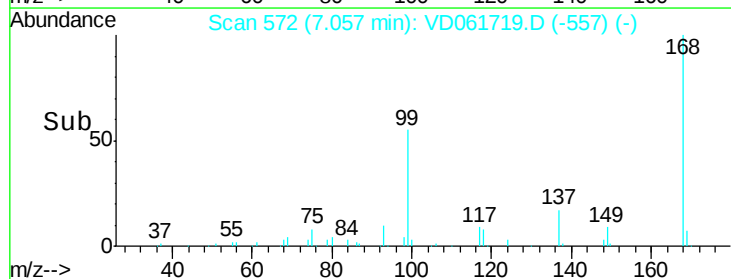
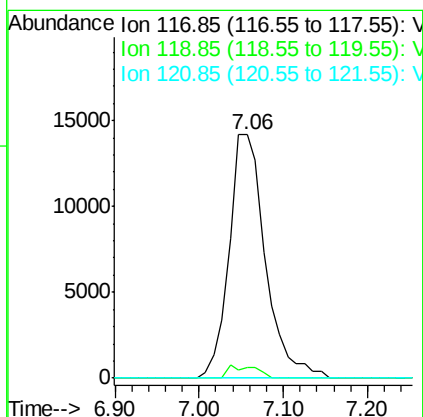
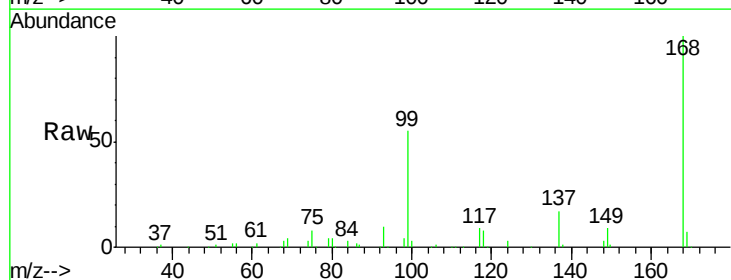
Instrument :
MSVOA_D
ClientSampled :

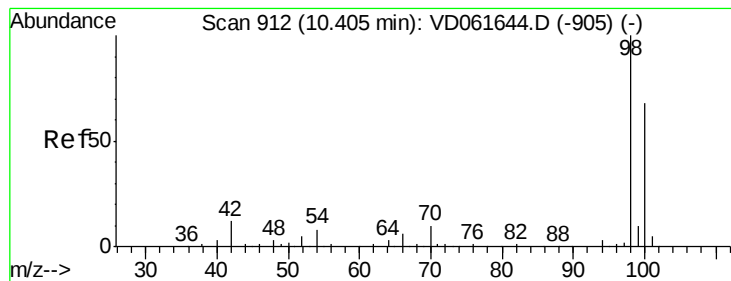
Tot Ion: 43 Resp: 13893
Ion Ratio Lower Upper
43 100
61 0.0 11.9 17.9#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 5.455 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Tgt Ion: 117 Resp: 42528
Ion Ratio Lower Upper
117 100
119 4.4 77.9 116.9#
121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

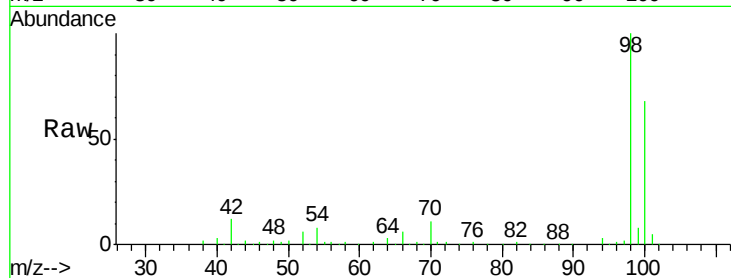
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 677782

Ion Ratio Lower Upper

98 100

100 68.2 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)

10.41

300000

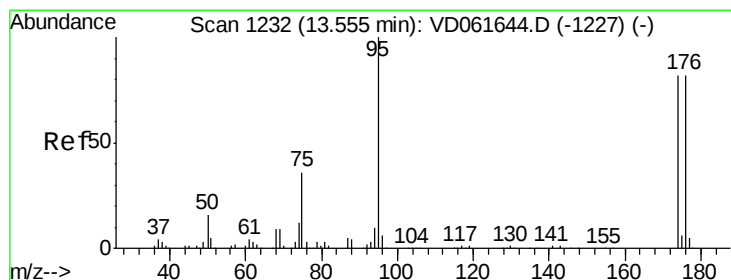
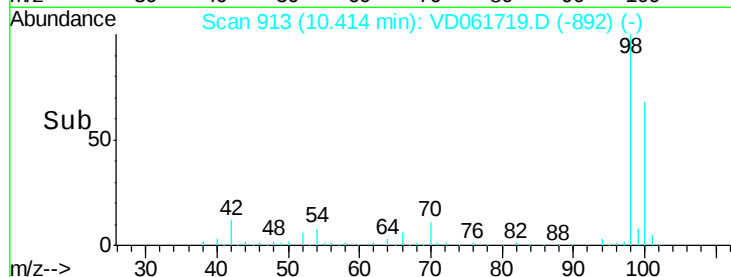
200000

100000

0

10.40 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

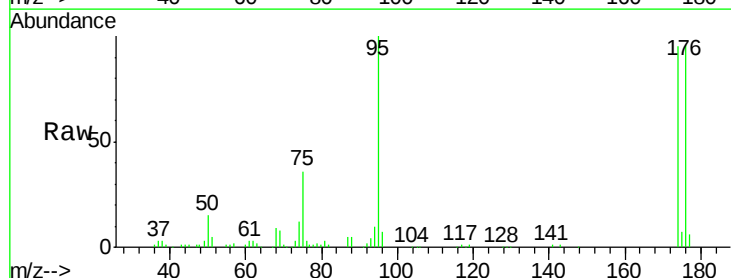
Tgt Ion: 95 Resp: 203089

Ion Ratio Lower Upper

95 100

174 94.9 0.0 164.6

176 96.0 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): VD061644.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD061644.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD061644.D (-1227) (-)

150000

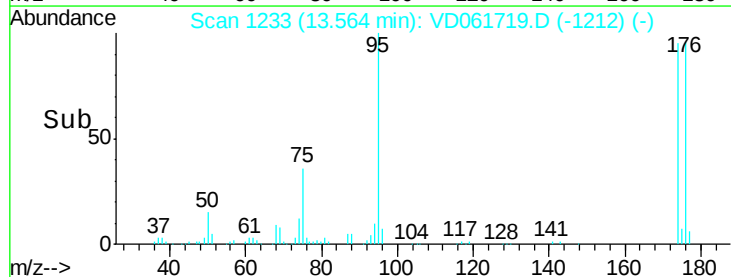
100000

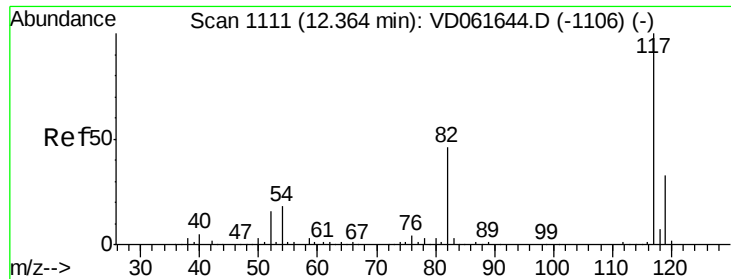
50000

0

13.50 13.55 13.60

Time-->

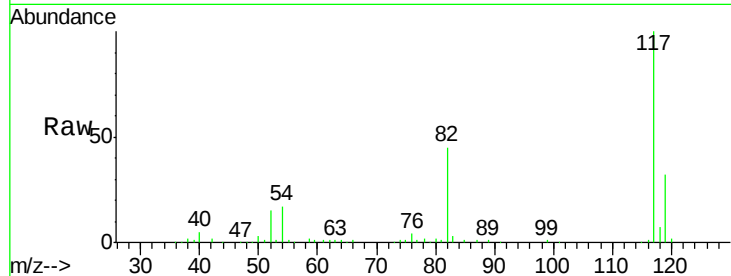




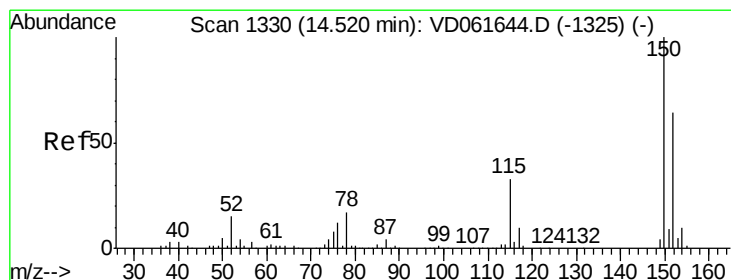
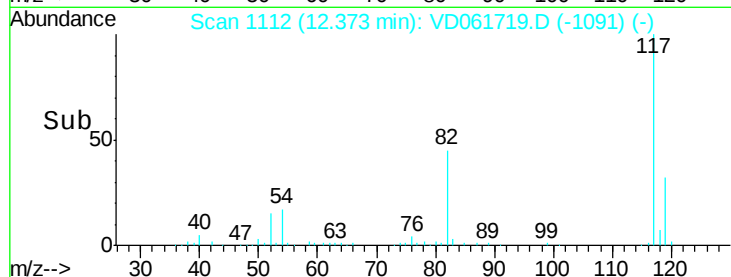
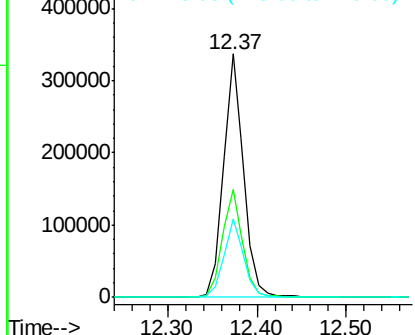
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 533743
Ion Ratio Lower Upper
117 100
82 44.5 36.8 55.2
119 32.2 26.1 39.1

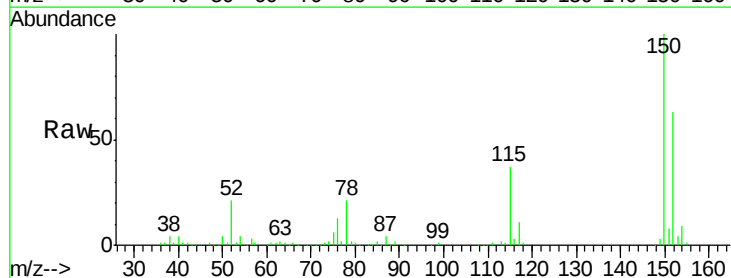


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

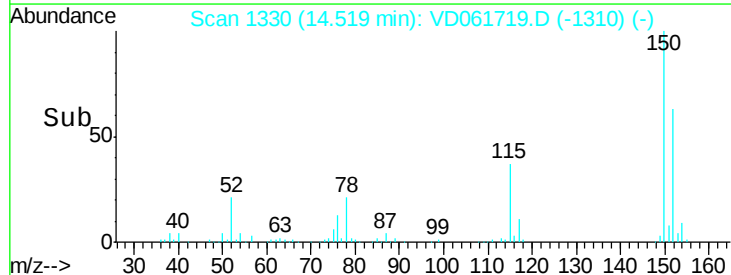
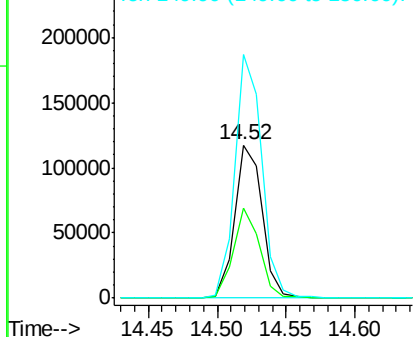


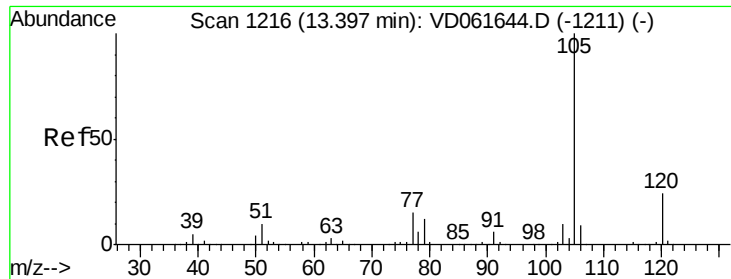
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Tgt Ion:152 Resp: 163167
Ion Ratio Lower Upper
152 100
115 58.6 26.4 79.2
150 158.8 0.0 320.6



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





#73

Isopropylbenzene

Concen: 3.393 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

Instrument :

MSVOA_D

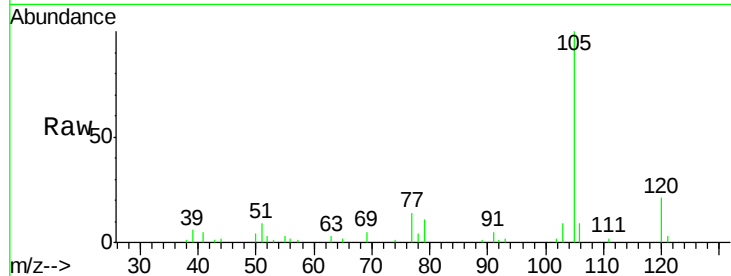
ClientSampleId :

Tot Ion:105 Resp: 36887

Ion Ratio Lower Upper

105 100

120 21.3 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

30000

25000

20000

15000

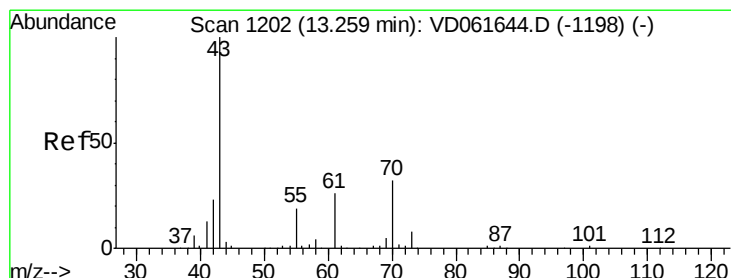
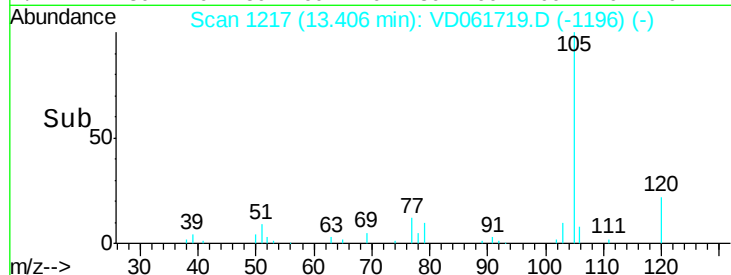
10000

5000

0

Time-->

13.35 13.40 13.45



#74

N-ethyl acetate

Concen: 1.571 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.03 min

Lab File: VD061719.D

Acq: 10 Apr 2019 18:05

Tgt Ion: 43 Resp: 4642

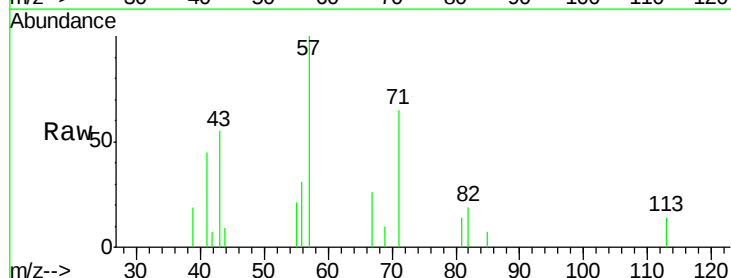
Ion Ratio Lower Upper

43 100

70 0.0 25.4 38.2#

55 37.2 15.0 22.4#

61 0.0 20.9 31.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

5000

4000

3000

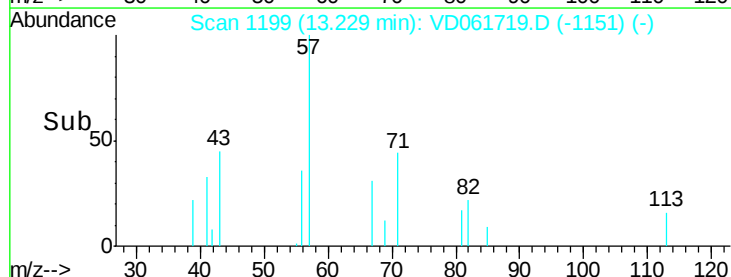
2000

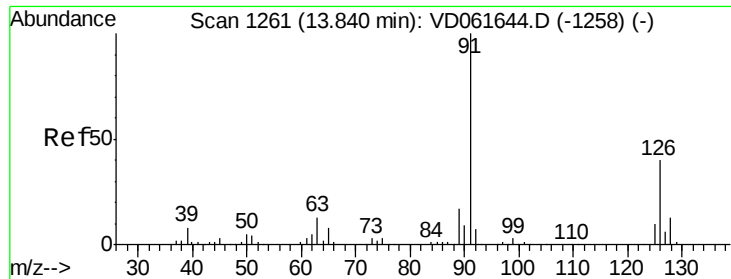
1000

0

Time-->

13.15 13.20 13.25

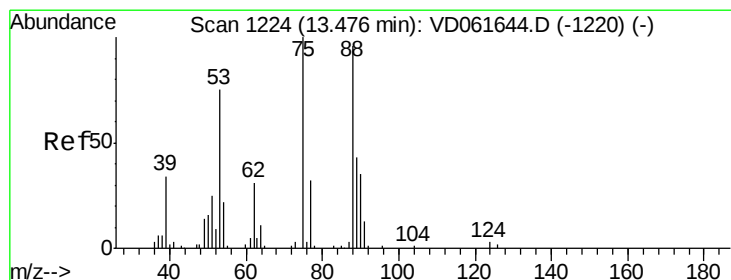
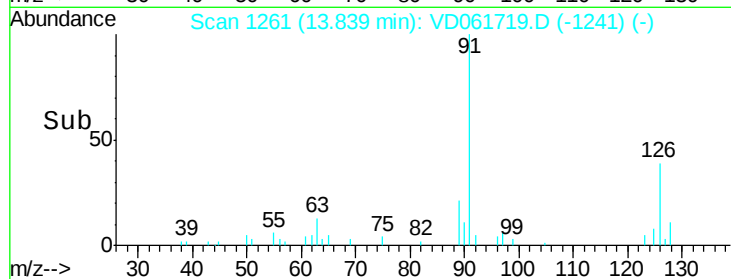
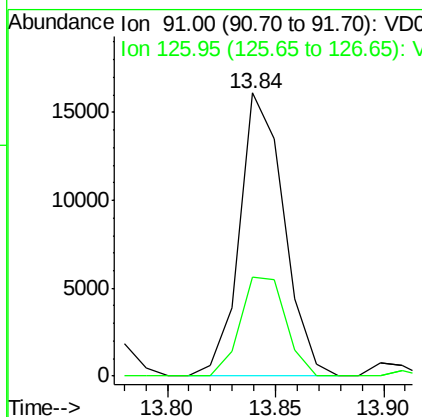
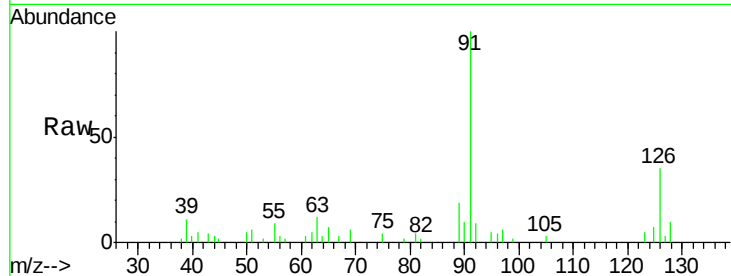




#79
 2-Chlorotoluene
 Concen: 3.111 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VD061719.D
 Acq: 10 Apr 2019 18:05

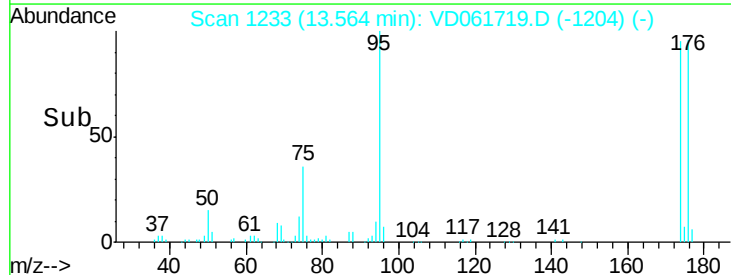
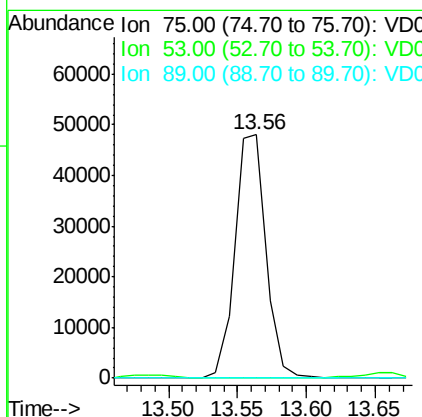
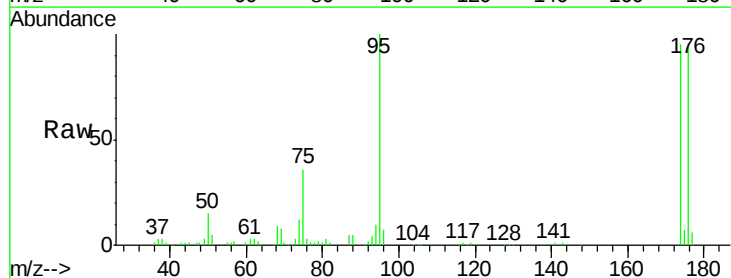
Instrument :
 MSVOA_D
 ClientSampleId :

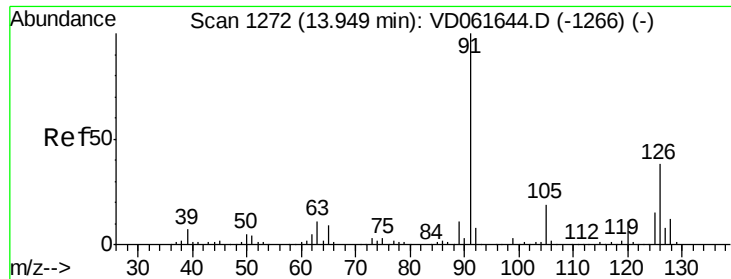
Tot Ion: 91 Resp: 23140
 Ion Ratio Lower Upper
 91 100
 126 34.8 20.0 59.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.400 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD061719.D
 Acq: 10 Apr 2019 18:05

Tgt Ion: 75 Resp: 75043
 Ion Ratio Lower Upper
 75 100
 53 0.0 60.2 90.2#
 89 0.0 34.2 51.2#

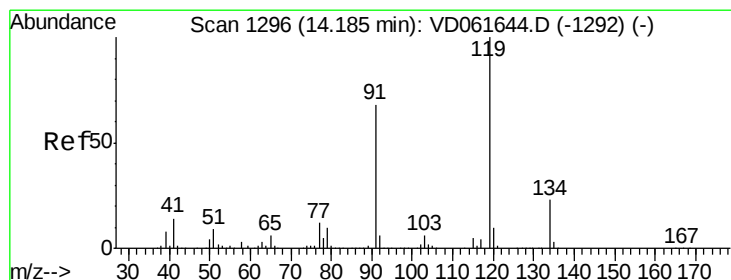
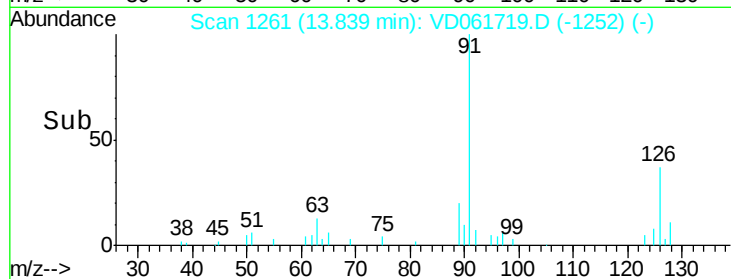
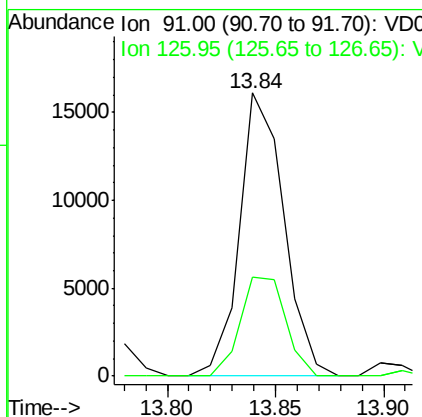
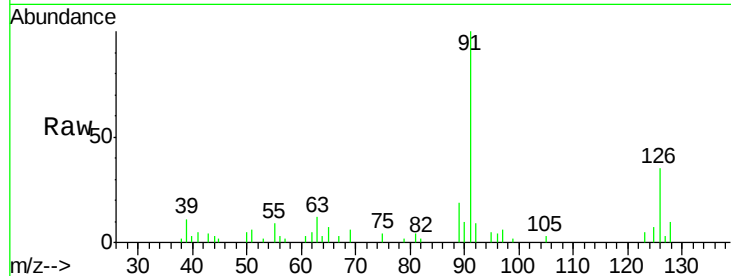




#82
4-Chlorotoluene
Concen: 2.839 ug/l
RT: 13.84 min Scan# 1261
Delta R.T. -0.11 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

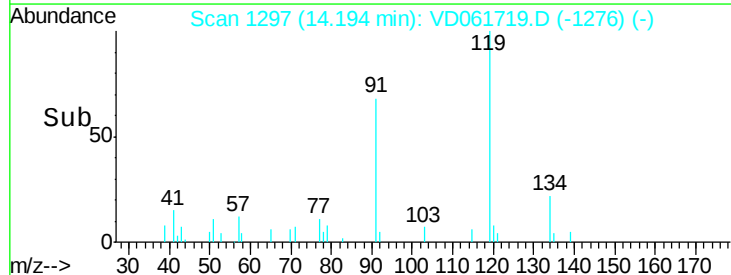
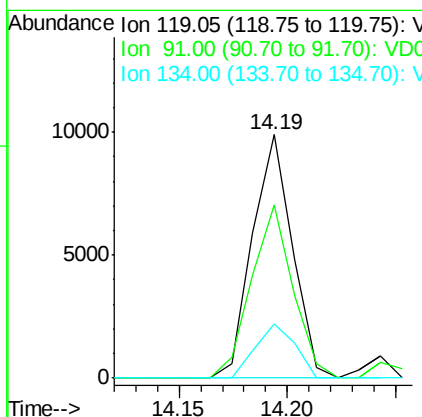
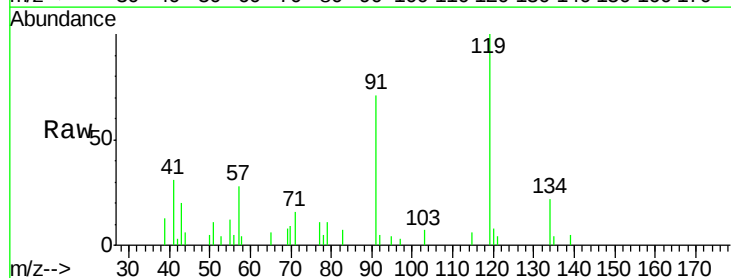
Instrument :
MSVOA_D
ClientSampleId :

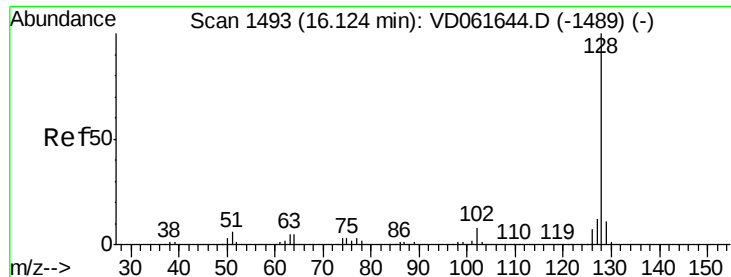
Tot Ion: 91 Resp: 23140
Ion Ratio Lower Upper
91 100
126 34.8 19.0 57.0



#83
tert-Butylbenzene
Concen: 1.230 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Tgt Ion: 119 Resp: 12800
Ion Ratio Lower Upper
119 100
91 71.1 33.9 101.6
134 22.1 11.6 34.8

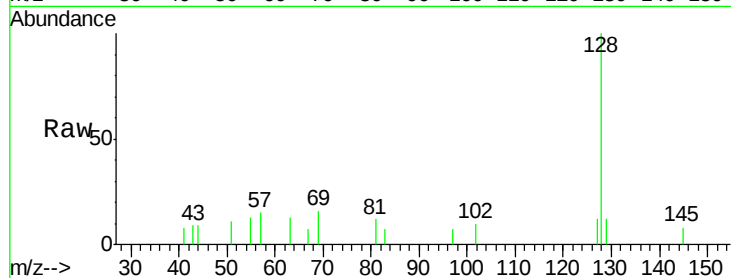




#95
Naphthalene
Concen: 1.536 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD061719.D
Acq: 10 Apr 2019 18:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 5543
Ion Ratio Lower Upper
128 100
127 11.6 9.4 14.2
129 11.9 8.8 13.2



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

