

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD033119\
 Data File : VD061463.D
 Acq On : 31 Mar 2019 22:46
 Operator : VA/AP
 Sample : K2138-13RE
 Misc : 5.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 01:56:59 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	550574	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.24	114	976988	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.38	117	740818	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	360589	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	222594	47.33	ug/l	0.04
Spiked Amount			Recovery	=	94.66%	
35) Dibromofluoromethane	6.94	113	350103	46.89	ug/l	0.04
Spiked Amount			Recovery	=	93.78%	
50) Toluene-d8	10.43	98	817487	45.65	ug/l	0.04
Spiked Amount			Recovery	=	91.30%	
62) 4-Bromofluorobenzene	13.56	95	307999	44.85	ug/l	0.01
Spiked Amount			Recovery	=	89.70%	

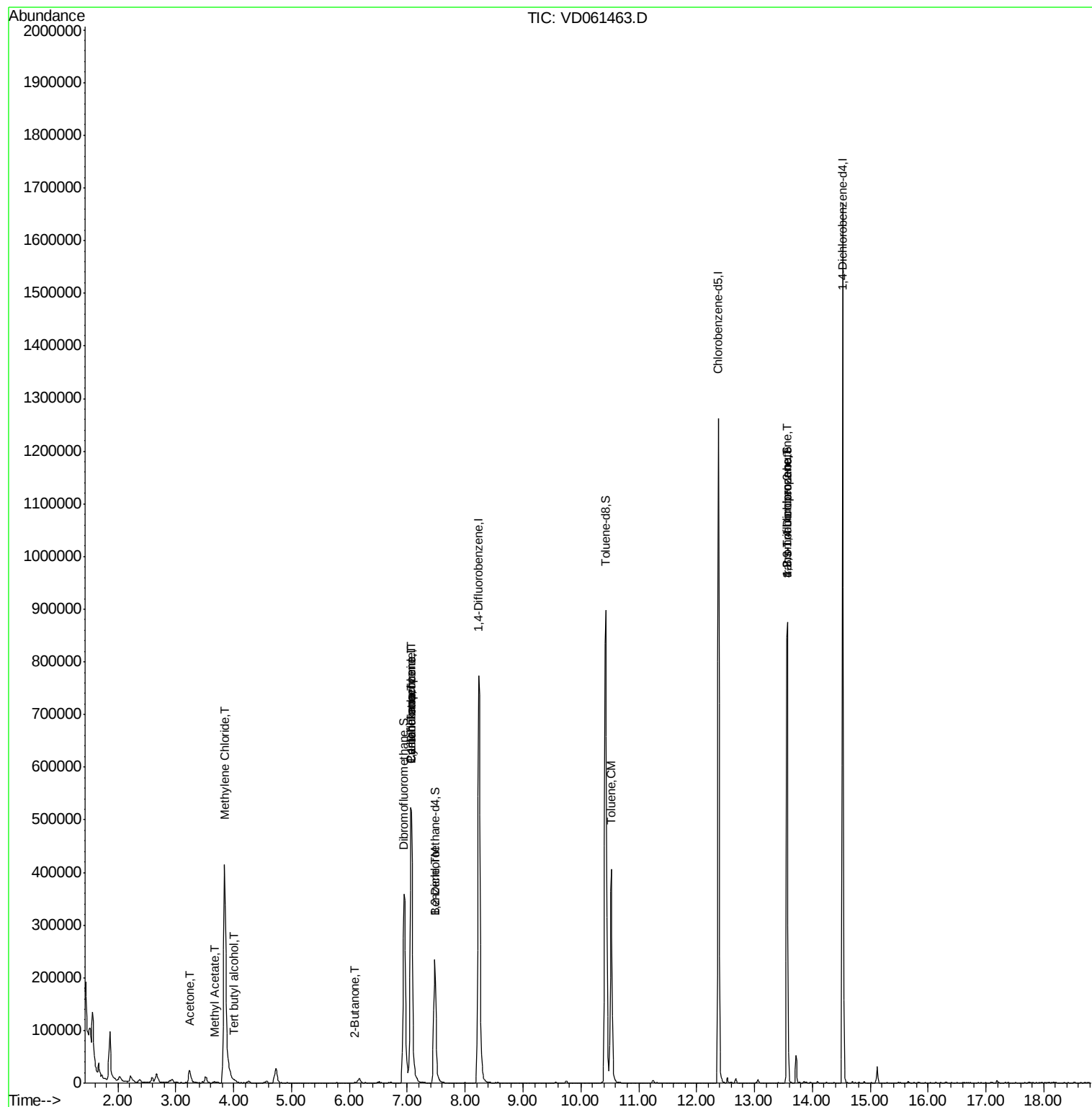
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.02	59	1153	3.936	ug/l #	76
16) Acetone	3.23	43	43350	35.855	ug/l	98
18) Methyl Acetate	3.67	43	6029	2.372	ug/l #	89
20) Methylene Chloride	3.84	84	341804	50.484	ug/l	95
25) 2-Butanone	6.10	43	2141	1.408	ug/l #	54
31) Cyclohexane	7.07	56	10591	1.307	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	38547	4.521	ug/l #	45
38) Carbon Tetrachloride	7.06	117	53715	5.482	ug/l #	14
40) Benzene	7.48	78	24221	1.132	ug/l	99
52) Toluene	10.53	92	228202	17.479	ug/l	99
76) 1,2,3-Trichloropropane	13.56	75	114484	21.979	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	115480	72.713	ug/l #	18

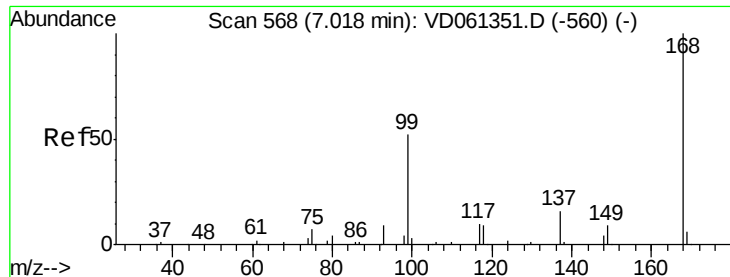
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.07 min Scan# 574

Delta R.T. 0.05 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Instrument :

MSVOA_D

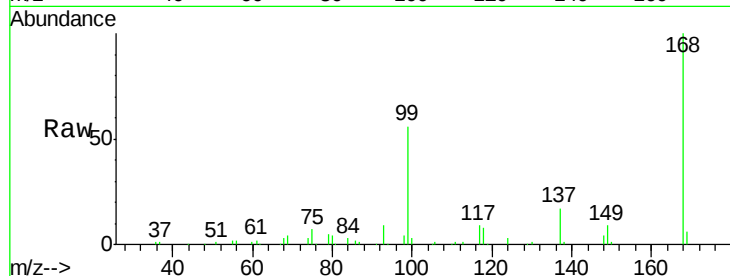
ClientSampleId :

Tot Ion:168 Resp: 550574

Ion Ratio Lower Upper

168 100

99 55.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

200000

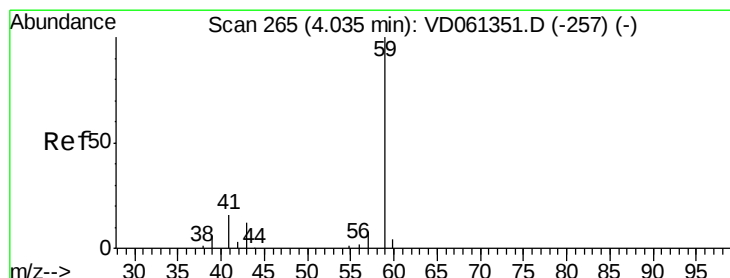
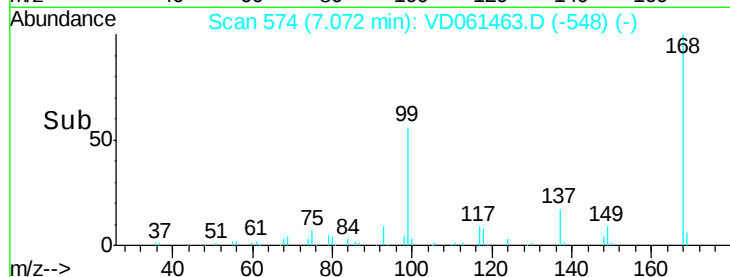
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 3.936 ug/l

RT: 4.02 min Scan# 264

Delta R.T. -0.02 min

Lab File: VD061463.D

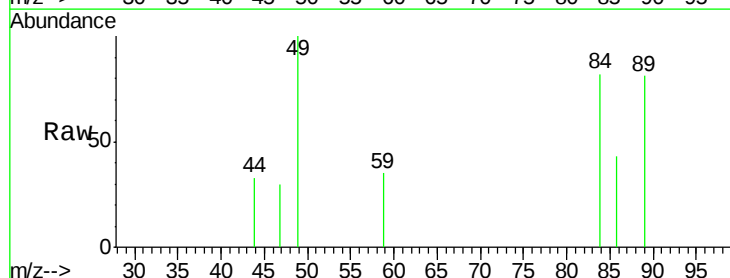
Acq: 31 Mar 2019 22:46

Tgt Ion: 59 Resp: 1153

Ion Ratio Lower Upper

59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.02

500

400

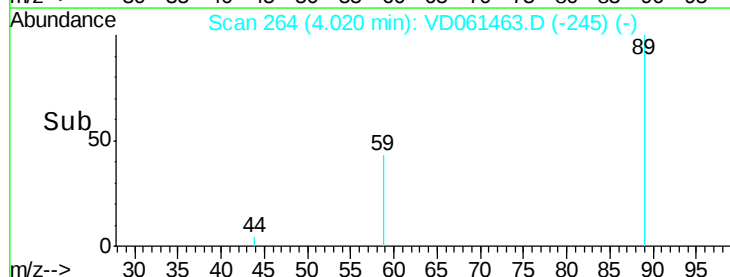
300

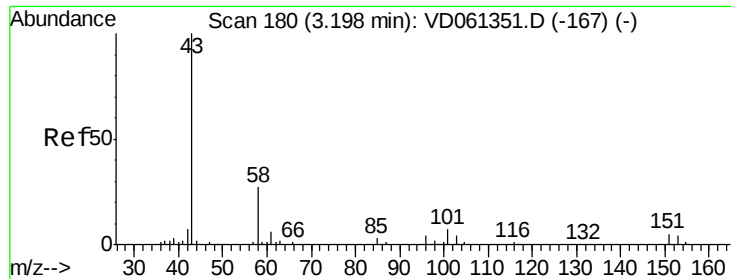
200

100

0

Time--> 3.95 4.00 4.05





#16

Acetone

Concen: 35.855 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.03 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Instrument :

MSVOA_D

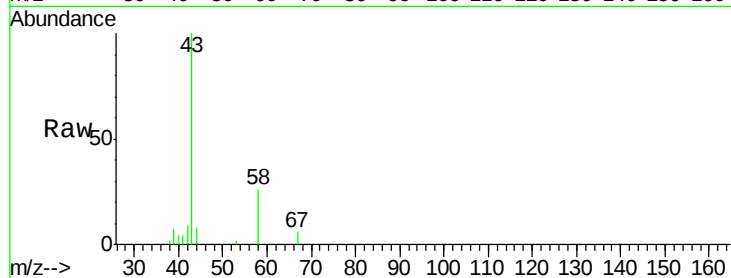
ClientSampleId :

Tot Ion: 43 Resp: 43350

Ion Ratio Lower Upper

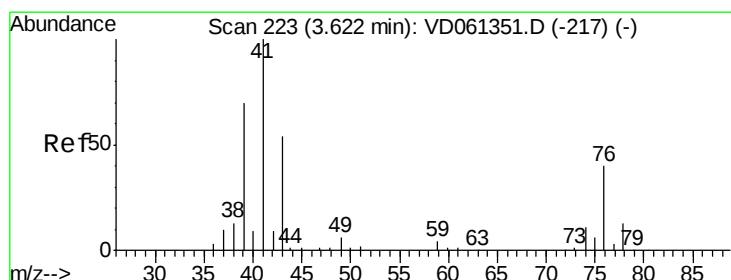
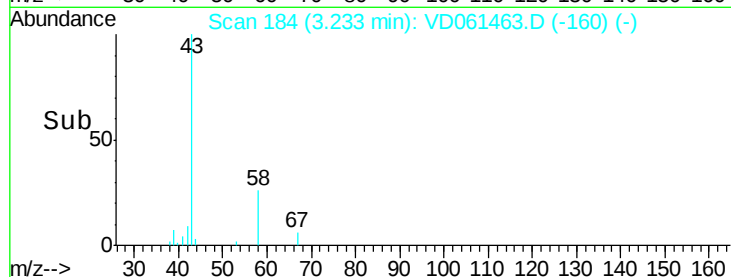
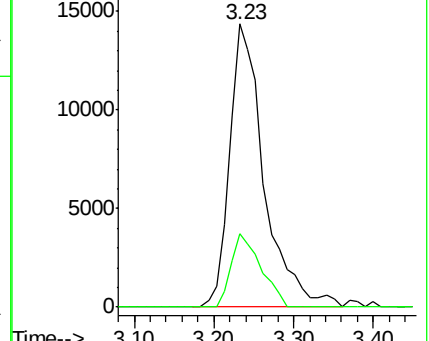
43 100

58 26.0 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: 2.372 ug/l

RT: 3.67 min Scan# 228

Delta R.T. 0.04 min

Lab File: VD061463.D

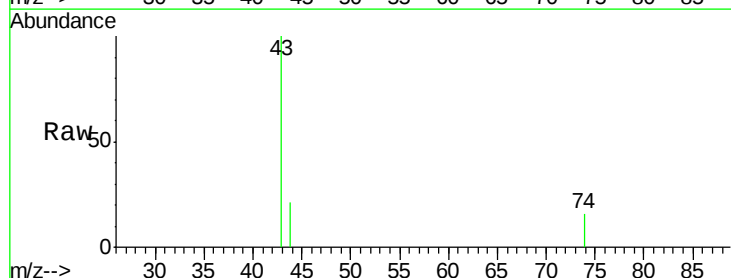
Acq: 31 Mar 2019 22:46

Tgt Ion: 43 Resp: 6029

Ion Ratio Lower Upper

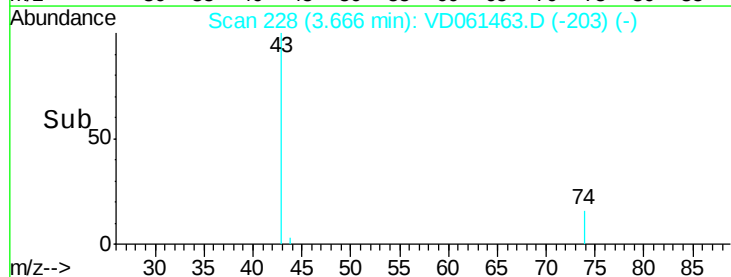
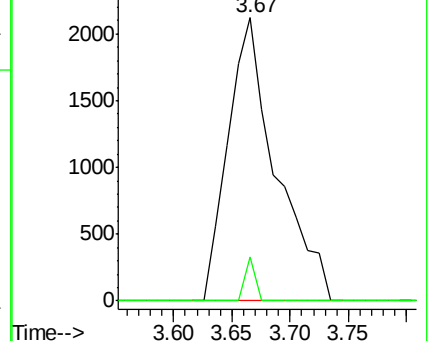
43 100

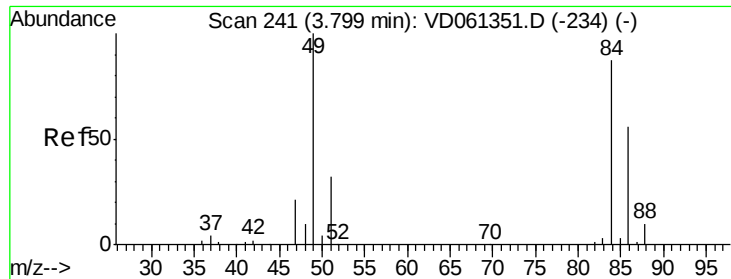
74 15.6 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

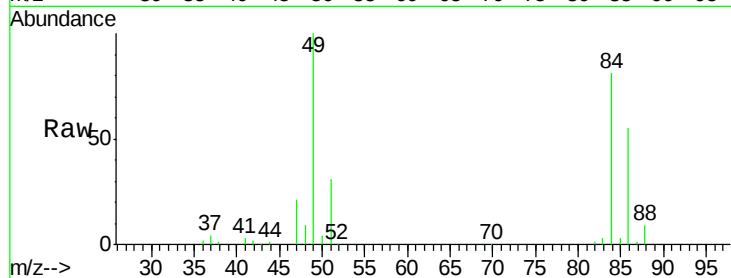




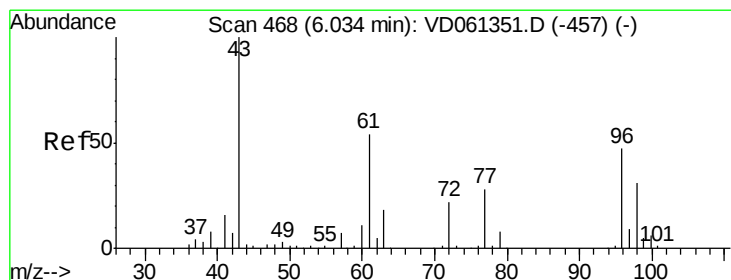
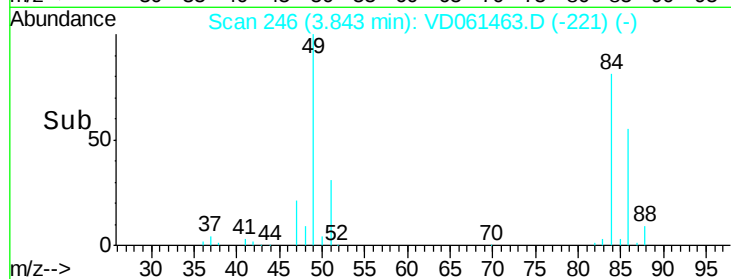
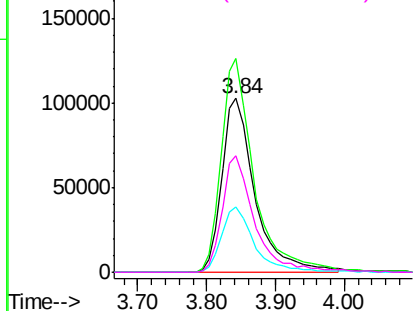
#20
Methylene Chloride
Concen: 50.484 ug/l
RT: 3.84 min Scan# 246
Delta R.T. 0.04 min
Lab File: VD061463.D
Acq: 31 Mar 2019 22:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 341804
Ion Ratio Lower Upper
84 100
49 122.8 91.8 137.8
51 37.9 29.8 44.8
86 67.3 51.8 77.6

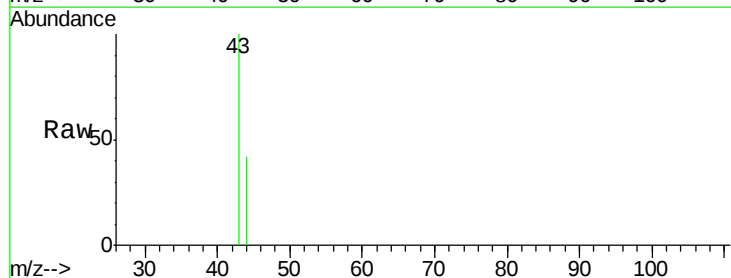


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

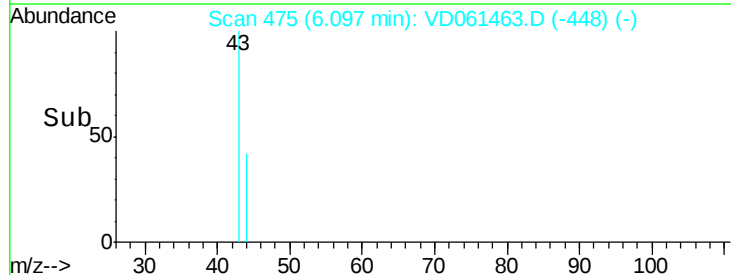
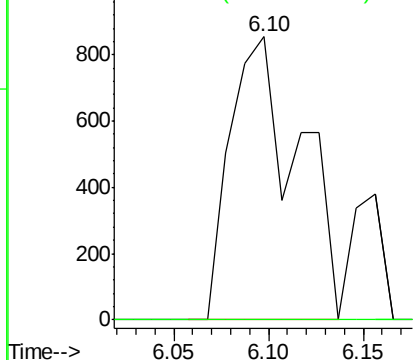


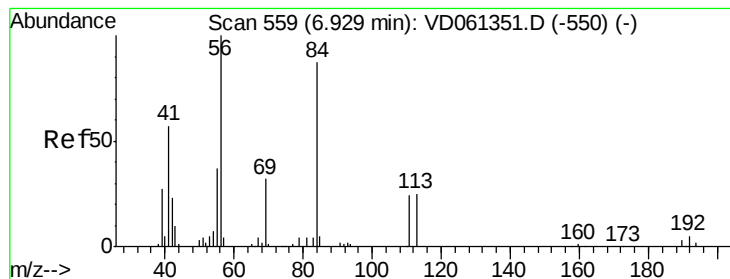
#25
2-Butanone
Concen: 1.408 ug/l
RT: 6.10 min Scan# 475
Delta R.T. 0.06 min
Lab File: VD061463.D
Acq: 31 Mar 2019 22:46

Tgt Ion: 43 Resp: 2141
Ion Ratio Lower Upper
43 100
72 0.0 17.2 25.8#



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





#31

Cyclohexane

Concen: 1.307 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.14 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Instrument :

MSVOA_D

ClientSampled :

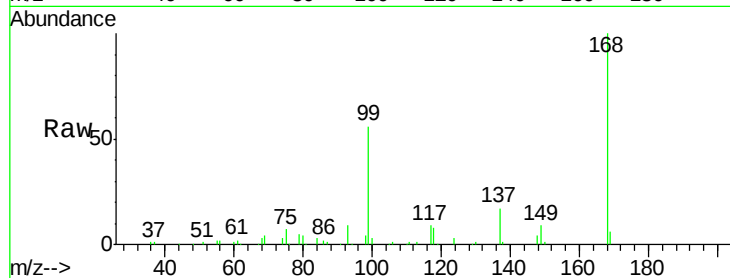
Tot Ion: 56 Resp: 10591

Ion Ratio Lower Upper

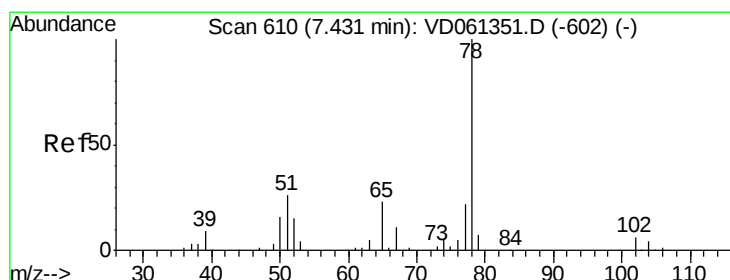
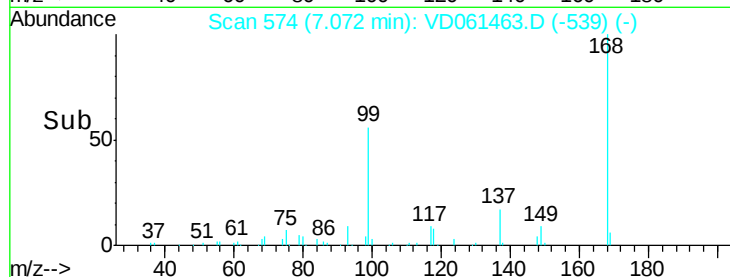
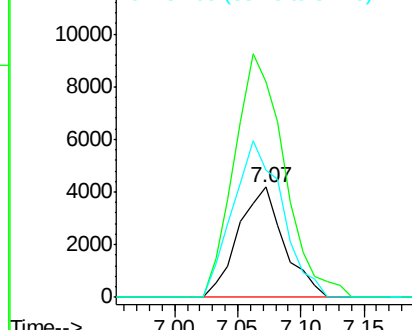
56 100

69 194.9 25.7 38.5#

84 115.8 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: 7.48 min Scan# 615

Delta R.T. 0.04 min

Lab File: VD061463.D

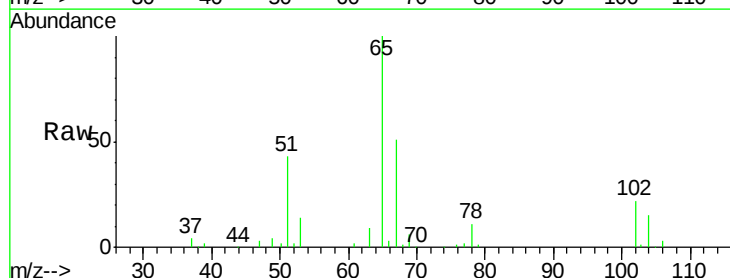
Acq: 31 Mar 2019 22:46

Tgt Ion: 65 Resp: 222594

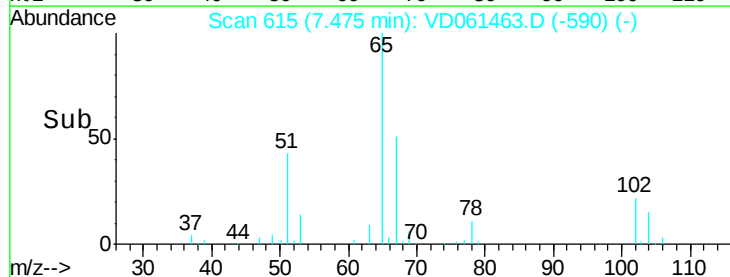
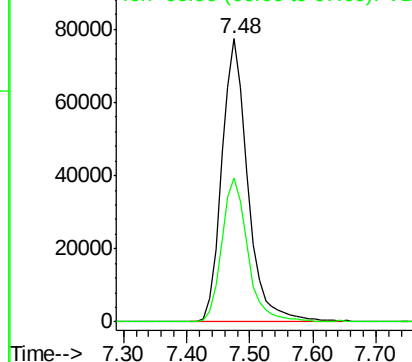
Ion Ratio Lower Upper

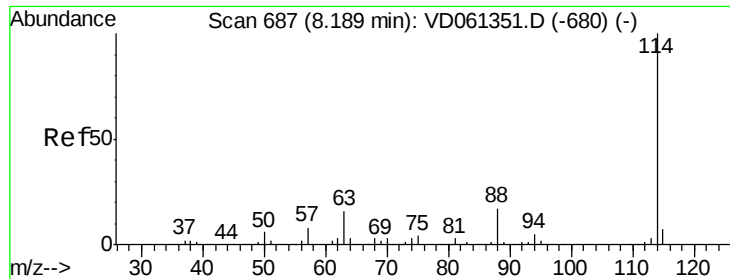
65 100

67 50.8 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# 693

Delta R.T. 0.05 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Instrument :

MSVOA_D

ClientSampleId :

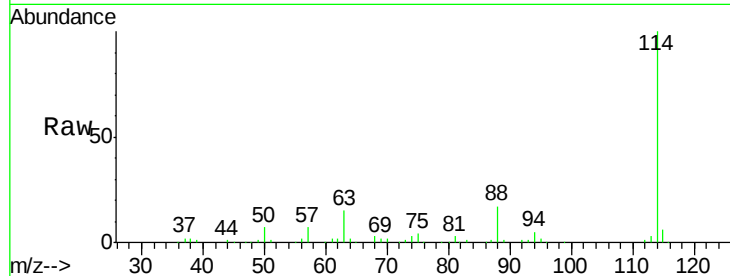
Tot Ion:114 Resp: 976988

Ion Ratio Lower Upper

114 100

63 15.1 0.0 31.6

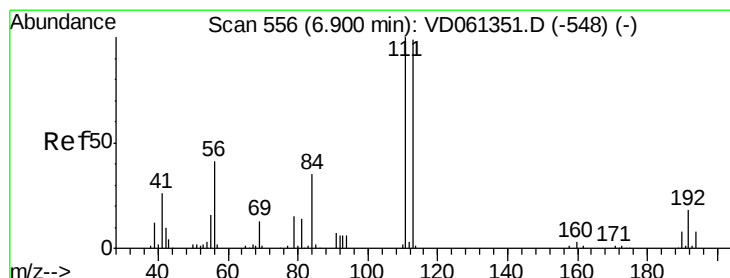
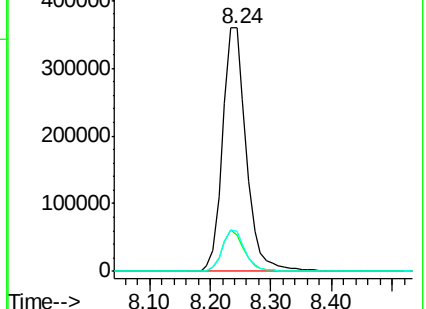
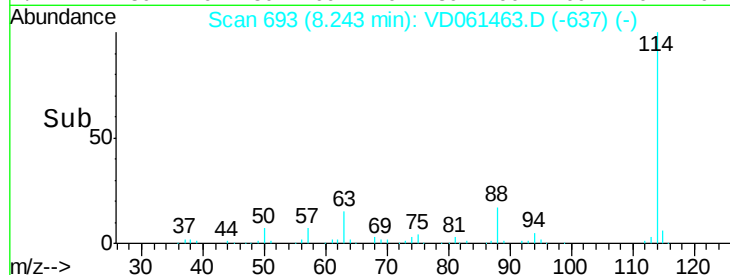
88 16.7 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.04 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

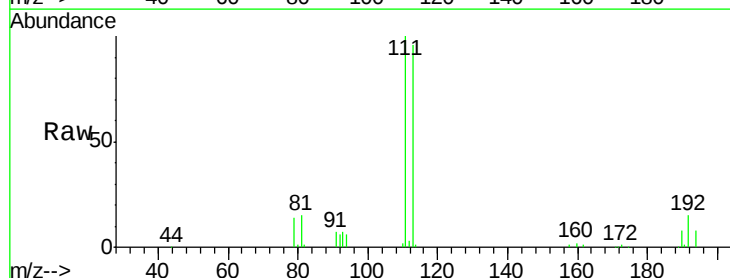
Tgt Ion:113 Resp: 350103

Ion Ratio Lower Upper

113 100

111 104.1 81.0 121.6

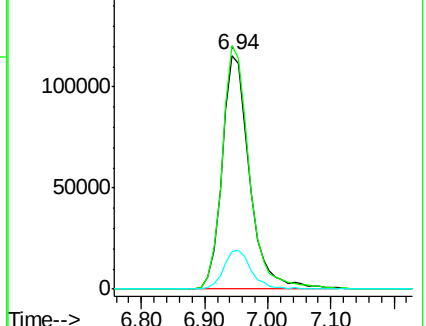
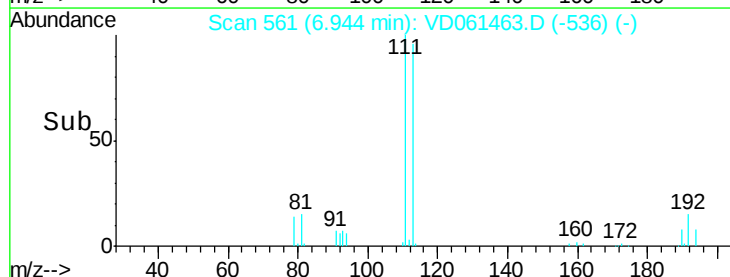
192 16.0 14.4 21.6

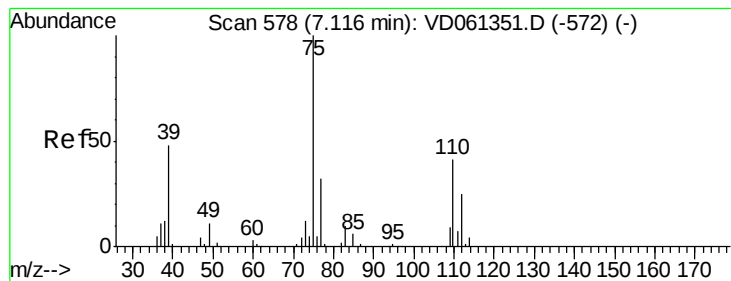


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.521 ug/l

RT: 7.06 min Scan# 573

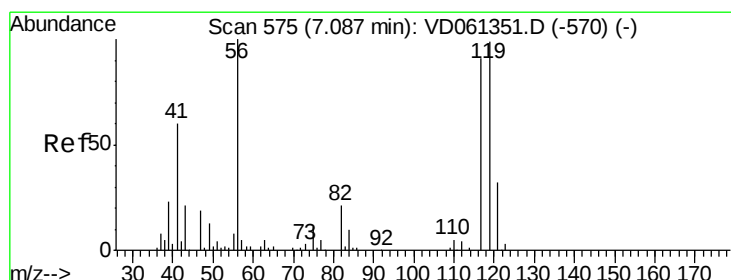
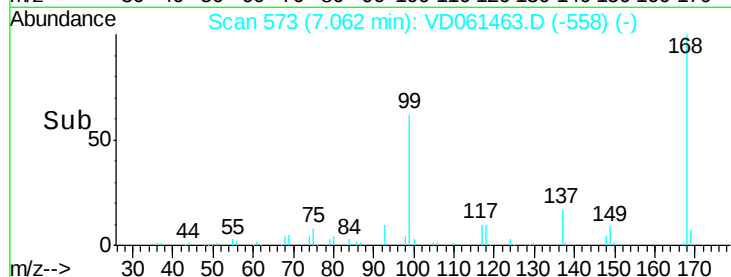
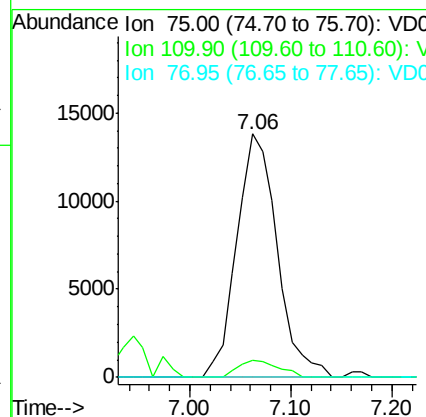
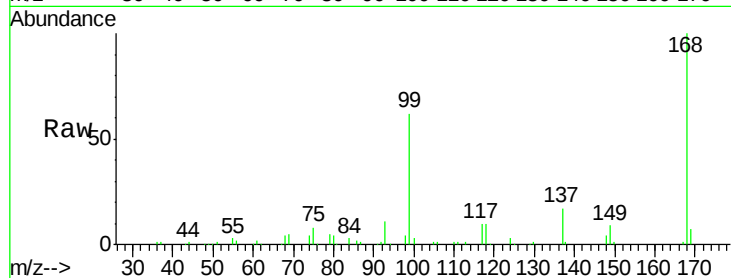
Delta R.T. -0.05 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	75	Resp:	38547
Ion	Ratio	Lower	Upper
75	100		
110	6.8	20.4	61.3#
77	0.0	24.9	37.3#



#38

Carbon Tetrachloride

Concen: 5.482 ug/l

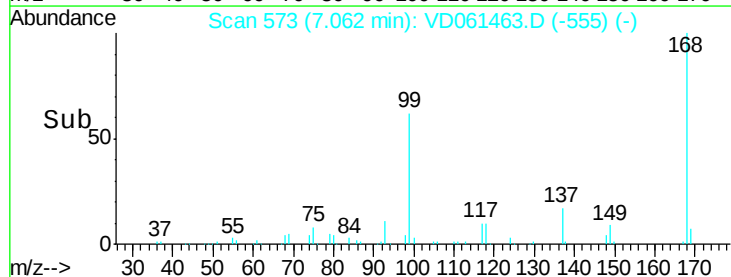
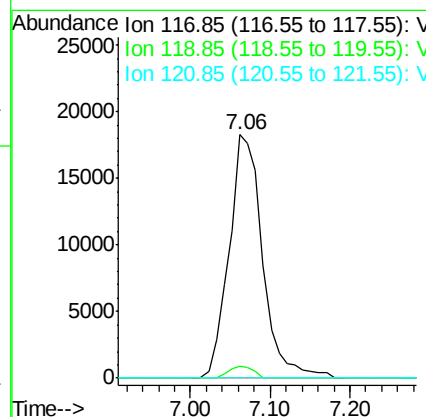
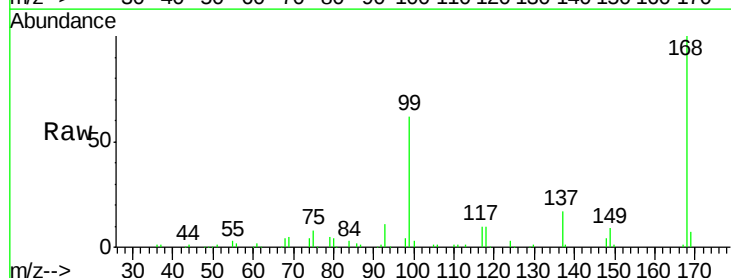
RT: 7.06 min Scan# 573

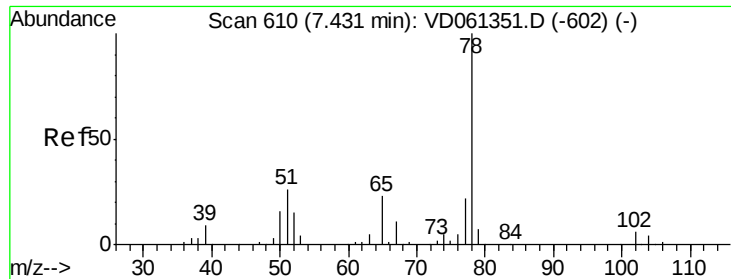
Delta R.T. -0.02 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Tgt Ion:	117	Resp:	53715
Ion	Ratio	Lower	Upper
117	100		
119	4.6	80.1	120.1#
121	0.0	25.6	38.4#





#40

Benzene

Concen: 1.132 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.04 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

Instrument :

MSVOA_D

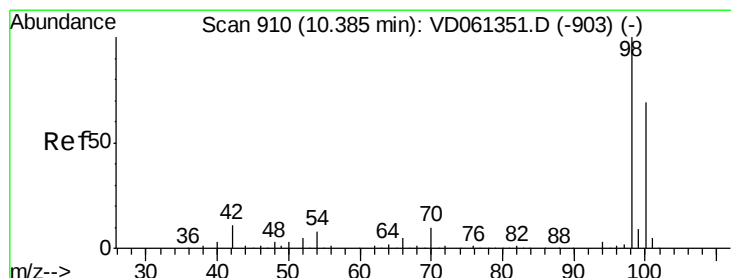
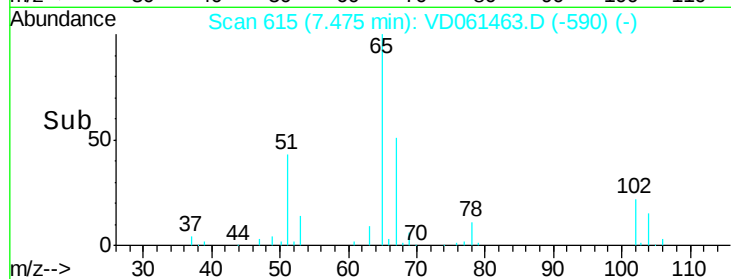
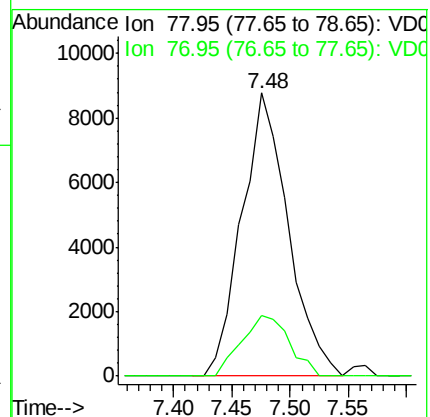
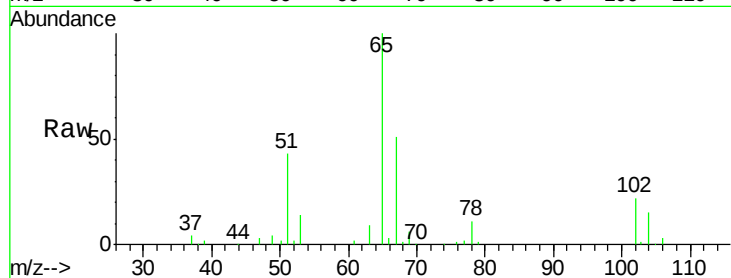
ClientSampleId :

Tot Ion: 78 Resp: 24221

Ion Ratio Lower Upper

78 100

77 21.7 17.8 26.6



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.04 min

Lab File: VD061463.D

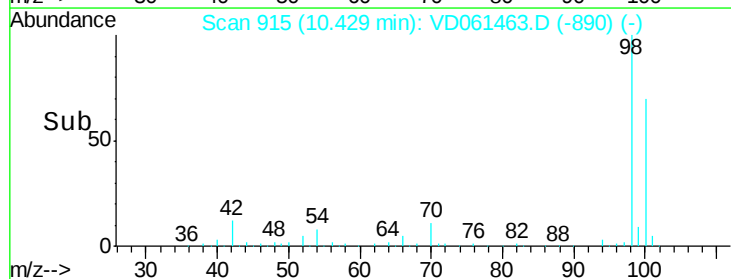
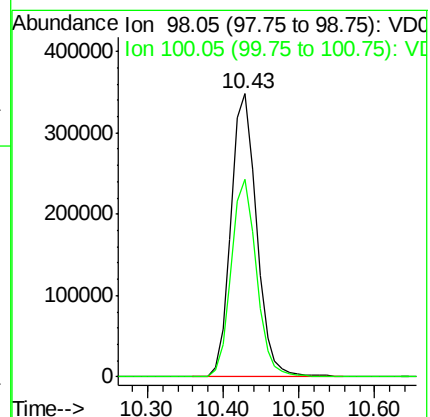
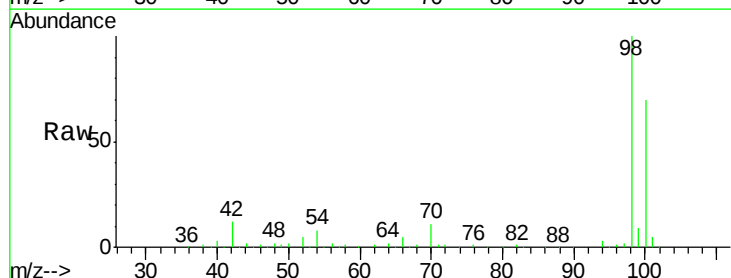
Acq: 31 Mar 2019 22:46

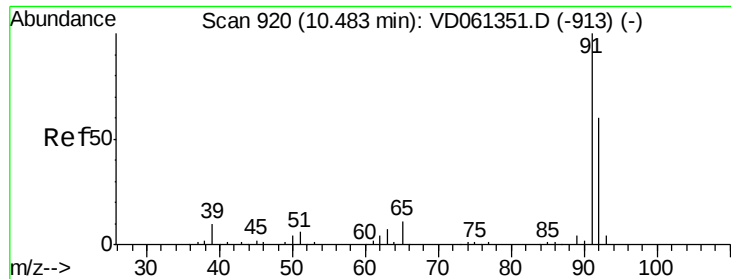
Tgt Ion: 98 Resp: 817487

Ion Ratio Lower Upper

98 100

100 69.7 56.2 84.2





#52

Toluene

Concen: 17.479 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.04 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

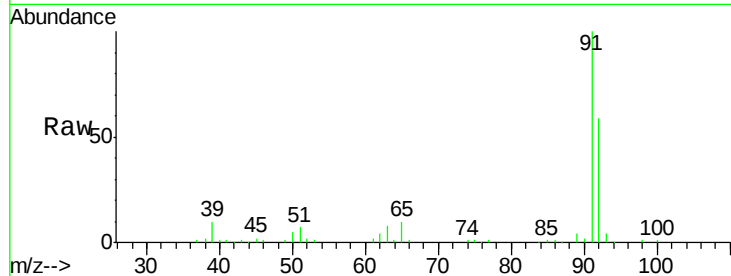
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 228202

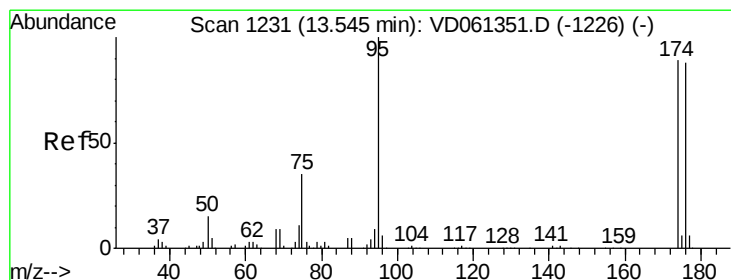
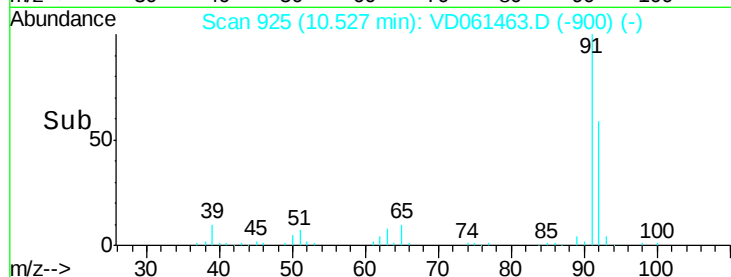
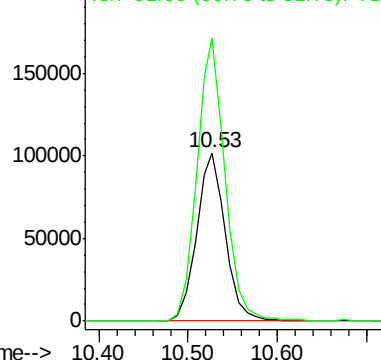
Ion Ratio Lower Upper

92 100

91 168.1 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061463.D

Acq: 31 Mar 2019 22:46

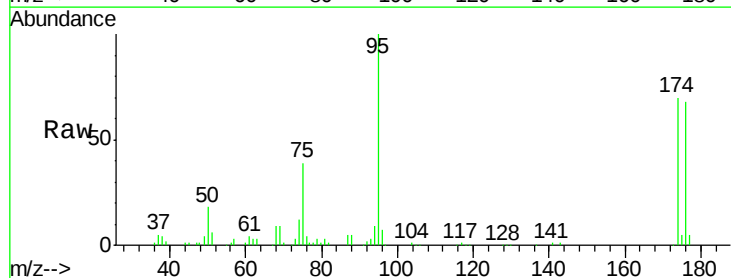
Tgt Ion: 95 Resp: 307999

Ion Ratio Lower Upper

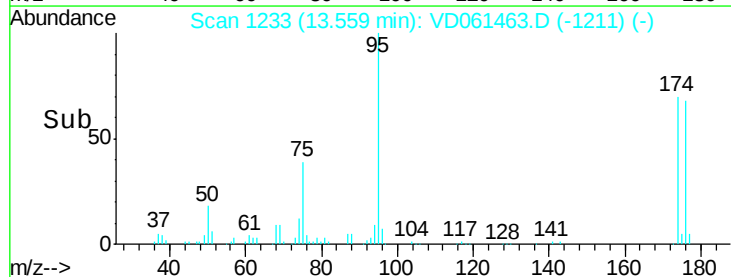
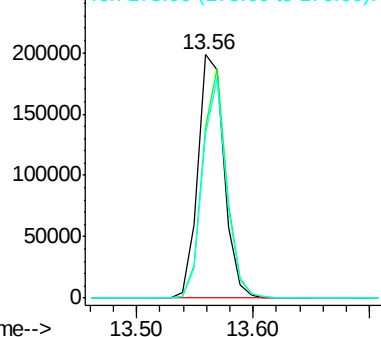
95 100

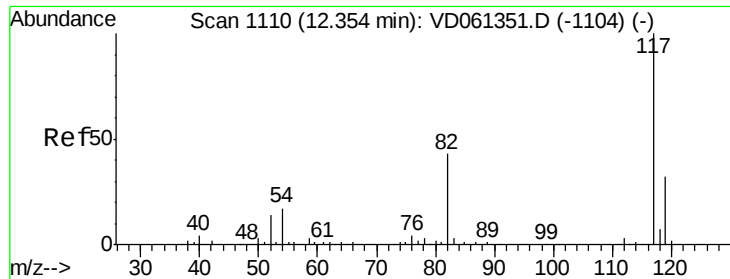
174 69.9 0.0 178.0

176 67.5 0.0 175.0



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

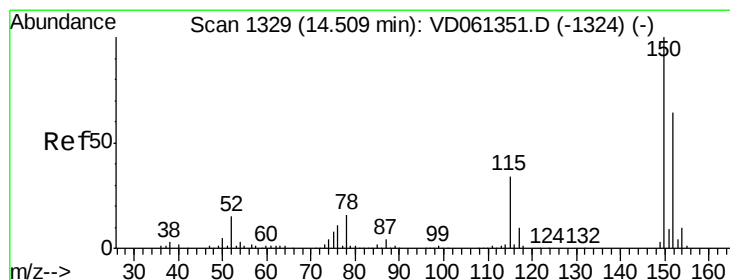
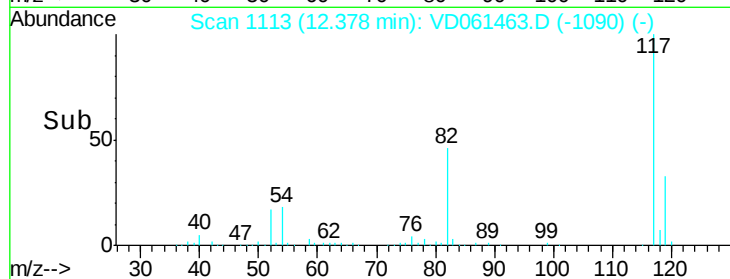
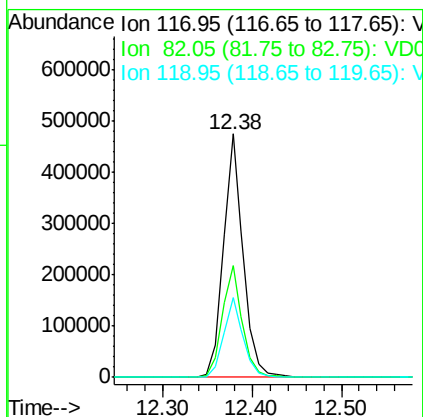
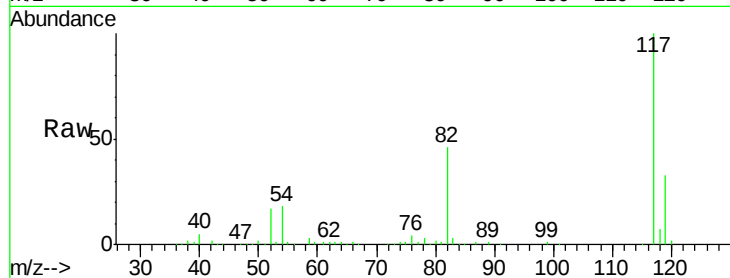




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061463.D
Acq: 31 Mar 2019 22:46

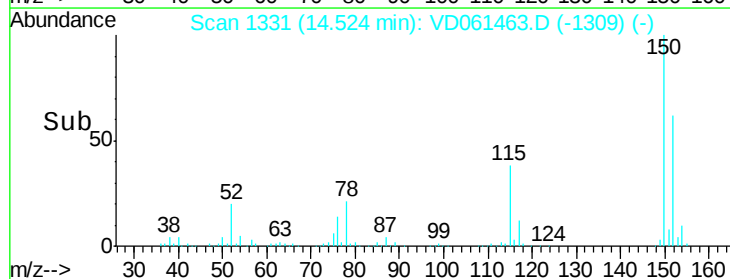
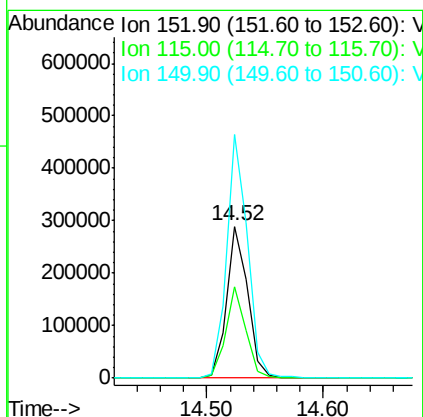
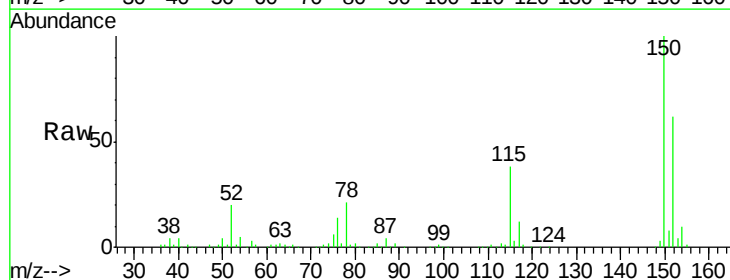
Instrument :
MSVOA_D
ClientSampleId :

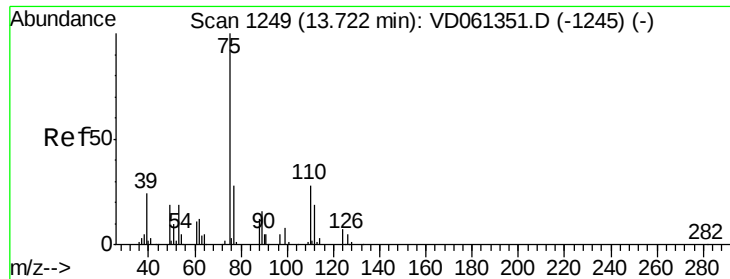
Tot Ion:117 Resp: 740818
Ion Ratio Lower Upper
117 100
82 46.0 34.4 51.6
119 32.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061463.D
Acq: 31 Mar 2019 22:46

Tgt Ion:152 Resp: 360589
Ion Ratio Lower Upper
152 100
115 60.1 26.9 80.6
150 160.2 0.0 318.0

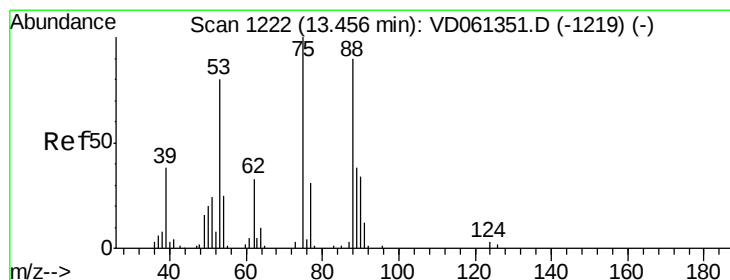
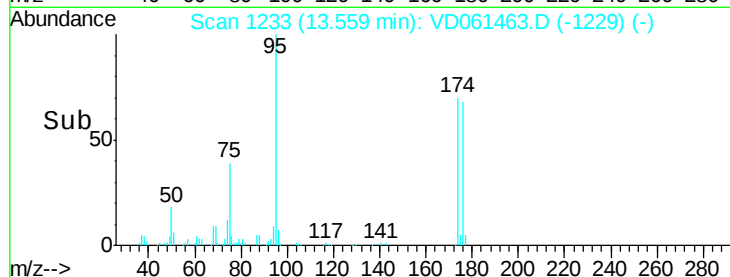
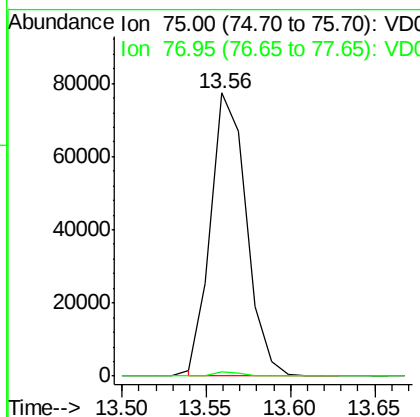
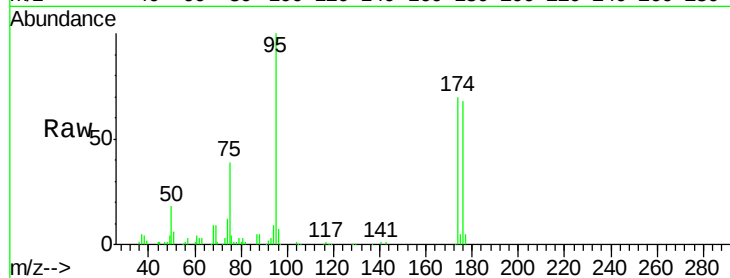




#76
 1,2,3-Trichloropropane
 Concen: 21.979 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.16 min
 Lab File: VD061463.D
 Acq: 31 Mar 2019 22:46

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 114484
 Ion Ratio Lower Upper
 75 100
 77 1.6 16.2 48.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.713 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.10 min
 Lab File: VD061463.D
 Acq: 31 Mar 2019 22:46

Tgt Ion: 75 Resp: 115480
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.8 95.8#
 89 0.0 30.5 45.7#

