

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061309.D
 Acq On : 25 Mar 2019 18:34
 Operator : VA/AP
 Sample : K2043-15
 Misc : 6.66µl/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB433-190319-FD-(23-25)

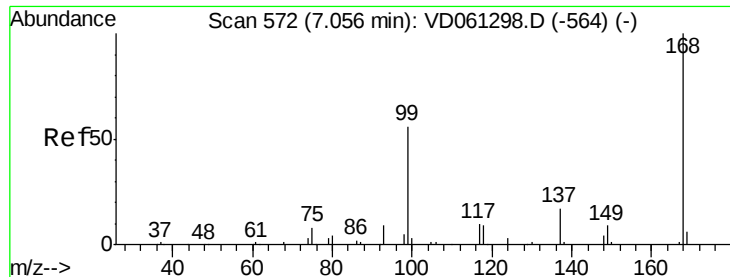
Quant Time: Mar 26 04:29:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	647402	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1089048	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	866300	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	376483	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	196178	35.12	ug/l	0.00
Spiked Amount			Recovery	=	70.24%	
35) Dibromofluoromethane	6.93	113	338112	40.57	ug/l	0.00
Spiked Amount			Recovery	=	81.14%	
50) Toluene-d8	10.41	98	742595	36.75	ug/l	0.00
Spiked Amount			Recovery	=	73.50%	
62) 4-Bromofluorobenzene	13.56	95	302914	38.43	ug/l	0.00
Spiked Amount			Recovery	=	76.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.86	62	11323	2.345	ug/l	96
11) Tert butyl alcohol	3.99	59	8681	29.196	ug/l #	77
16) Acetone	3.23	43	28759	21.526	ug/l	95
20) Methylene Chloride	3.83	84	43944	5.795	ug/l	98
25) 2-Butanone	6.08	43	3138	2.031	ug/l #	52
31) Cyclohexane	7.04	56	10464	1.184	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	46369	5.204	ug/l #	45
37) Ethyl Acetate	6.15	43	5627	1.512	ug/l #	1
38) Carbon Tetrachloride	7.05	117	58956	5.789	ug/l #	16
65) Chlorobenzene	12.40	112	284947	17.858	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.56	75	111404	75.396	ug/l #	17
87) 1,3-Dichlorobenzene	14.46	146	43112	3.556	ug/l	95
88) 1,4-Dichlorobenzene	14.53	146	97447	8.297	ug/l	94
91) 1,2-Dichlorobenzene	14.81	146	128526	13.285	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.00 min

Lab File: VD061309.D

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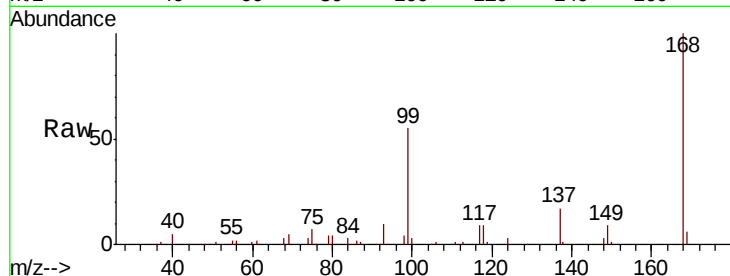
WP022SB433-190319-FD-(23-25)

Tot Ion:168 Resp: 647402

Ion Ratio Lower Upper

168 100

99 55.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

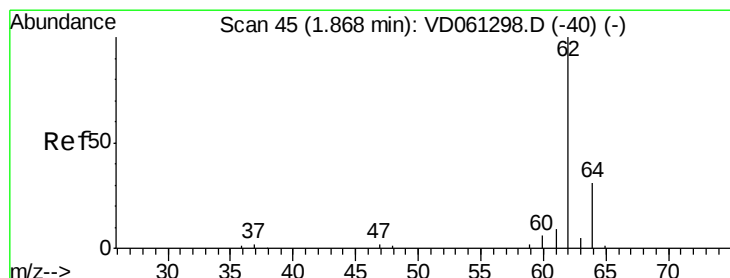
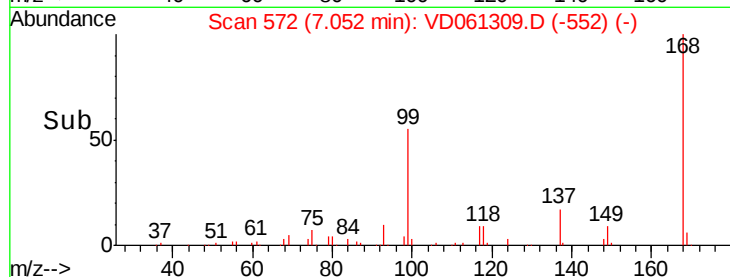
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#4

Vinyl Chloride

Concen: 2.345 ug/l

RT: 1.86 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061309.D

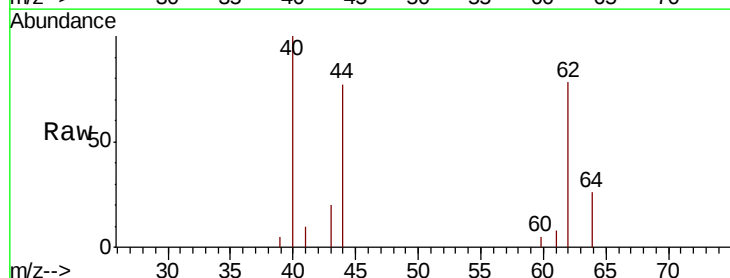
Acq: 25 Mar 2019 18:34

Tgt Ion: 62 Resp: 11323

Ion Ratio Lower Upper

62 100

64 33.6 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.86

6000

5000

4000

3000

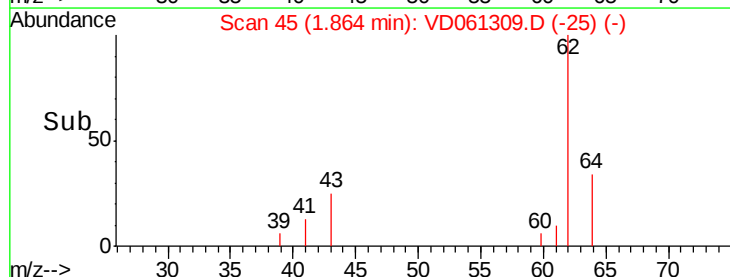
2000

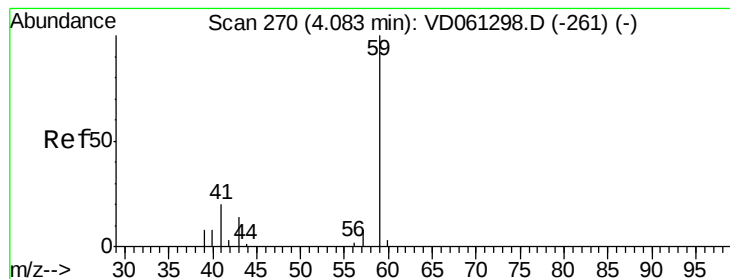
1000

0

1.80 1.85 1.90 1.95

Time-->



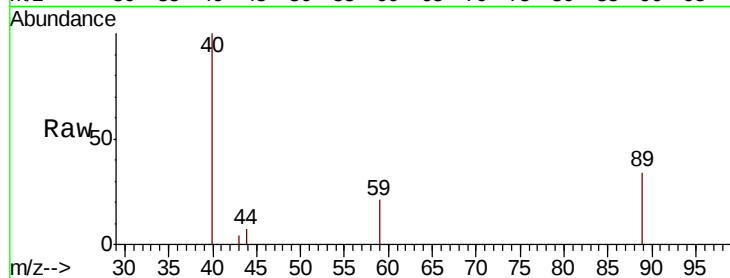


#11

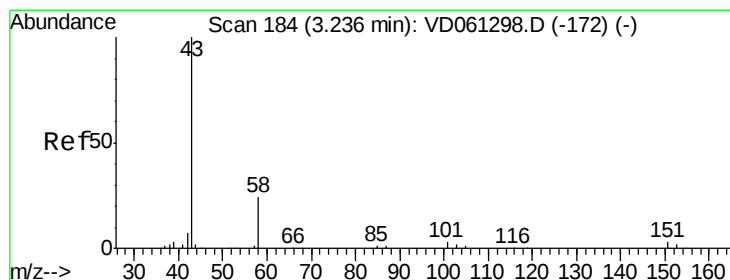
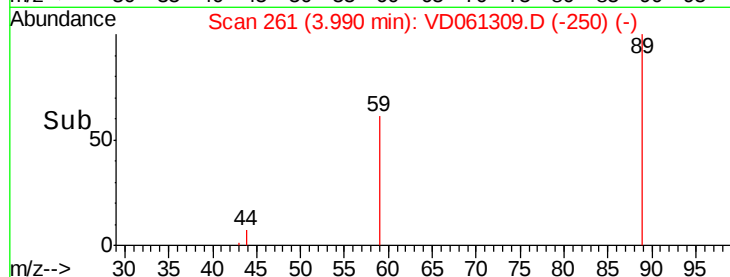
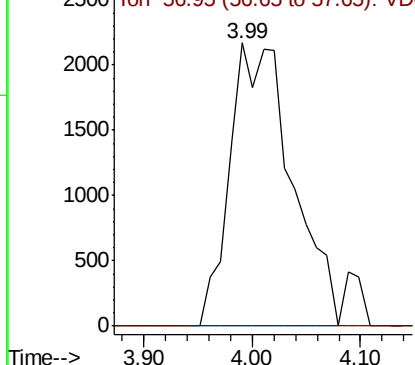
Tert butyl alcohol
 Concen: 29.196 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.09 min
 Lab File: VD061309.D
 Acq: 25 Mar 2019 18:34

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB433-190319-FD-(23-25)

Tot Ion: 59 Resp: 8681
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 9.8#



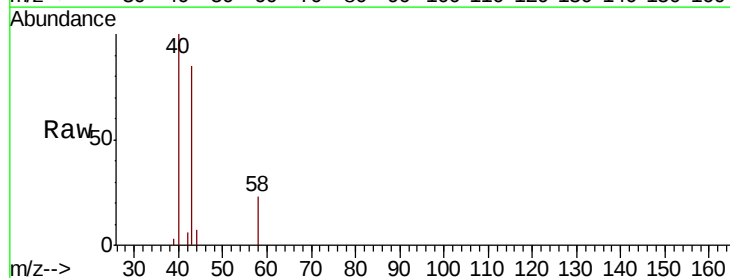
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



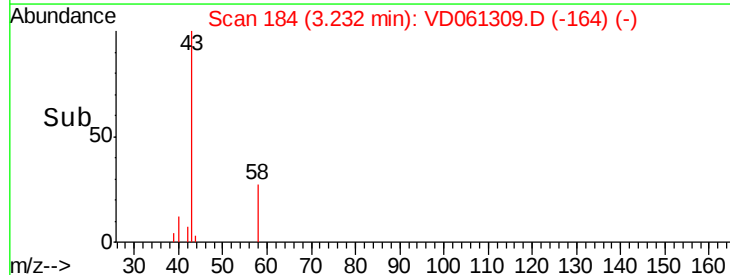
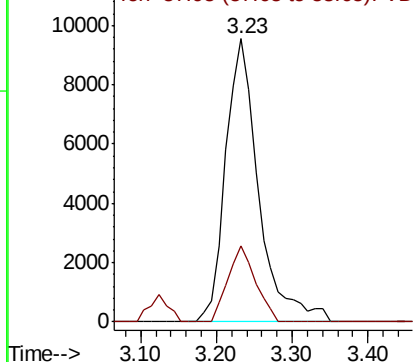
#16

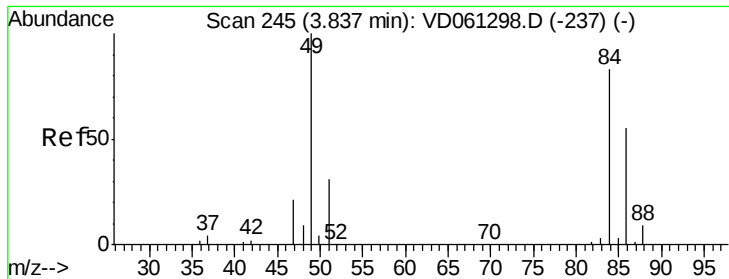
Acetone
 Concen: 21.526 ug/l
 RT: 3.23 min Scan# 184
 Delta R.T. -0.00 min
 Lab File: VD061309.D
 Acq: 25 Mar 2019 18:34

Tgt Ion: 43 Resp: 28759
 Ion Ratio Lower Upper
 43 100
 58 26.9 19.4 29.0



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

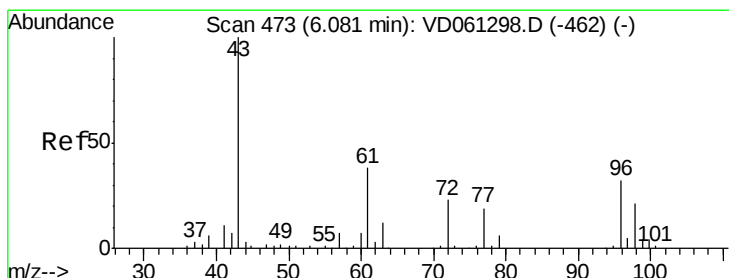
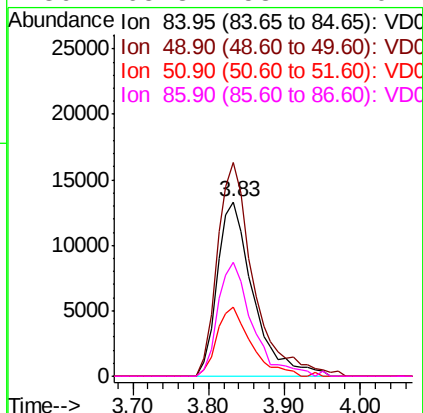
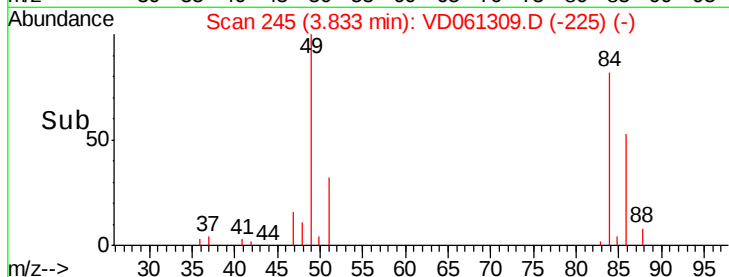
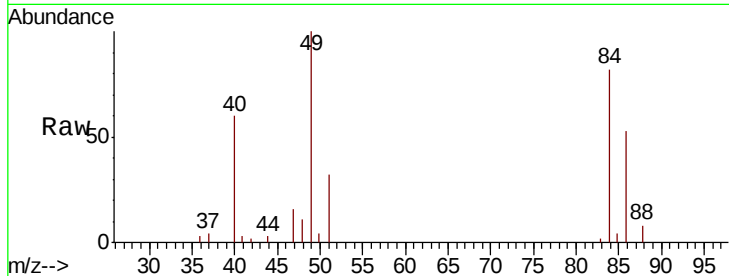




#20
Methylene Chloride
Concen: 5.795 ug/l
RT: 3.83 min Scan# 245
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

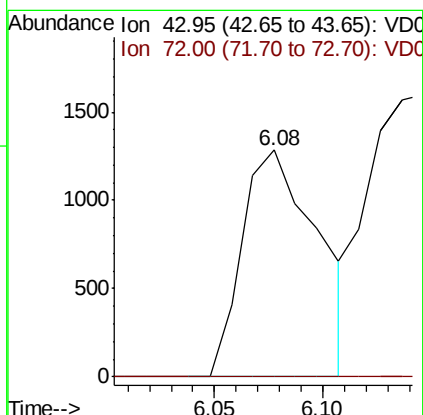
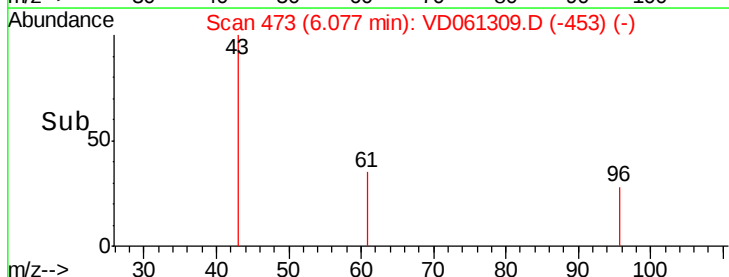
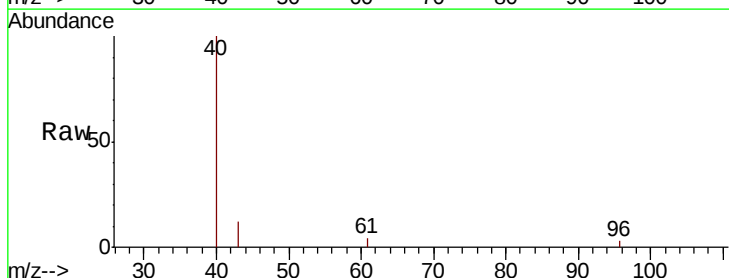
Instrument :
MSVOA_D
ClientSampleId :
WP022SB433-190319-FD-(23-25)

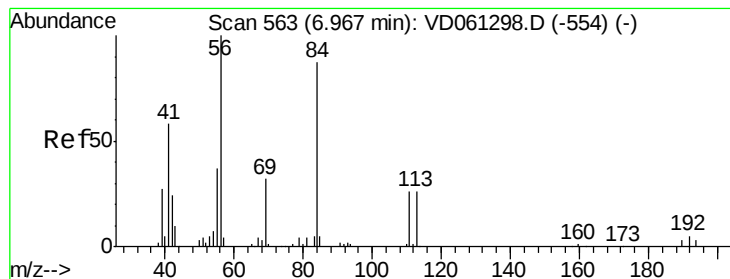
Tot Ion: 84 Resp: 43944
Ion Ratio Lower Upper
84 100
49 122.4 96.8 145.2
51 39.4 29.9 44.9
86 65.3 53.1 79.7



#25
2-Butanone
Concen: 2.031 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Tgt Ion: 43 Resp: 3138
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#31

Cyclohexane

Concen: 1.184 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.07 min

Lab File: VD061309.D

Acq: 25 Mar 2019 18:34

Instrument :

MSVOA_D

ClientSampleId :

WP022SB433-190319-FD-(23-25)

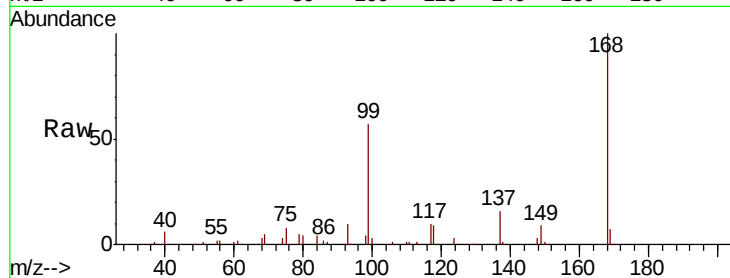
Tot Ion: 56 Resp: 10464

Ion Ratio Lower Upper

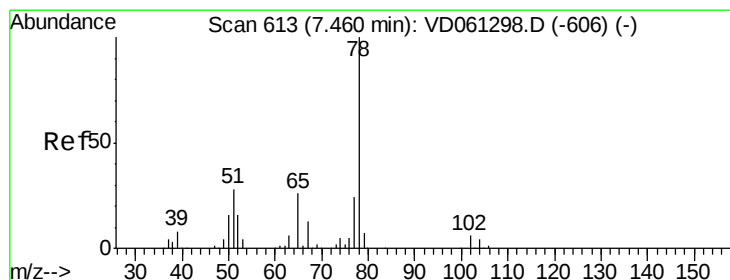
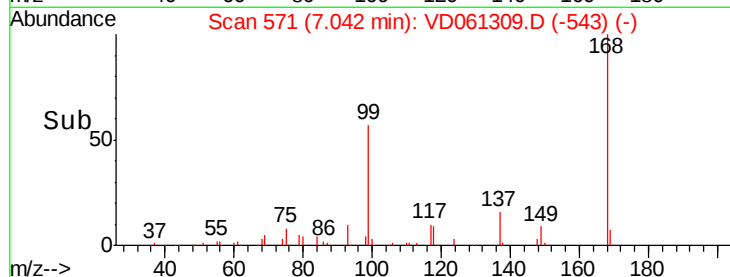
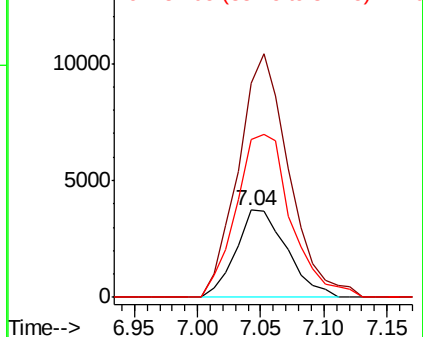
56 100

69 245.6 25.5 38.3#

84 181.7 71.4 107.2#



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. -0.00 min

Lab File: VD061309.D

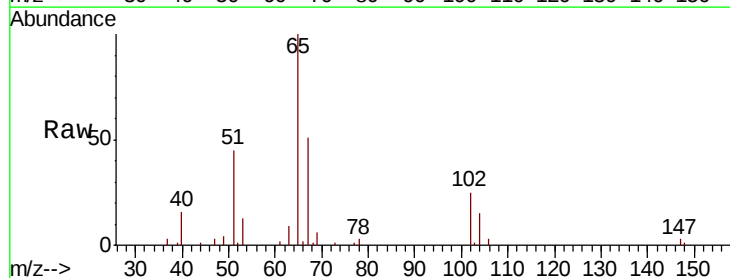
Acq: 25 Mar 2019 18:34

Tgt Ion: 65 Resp: 196178

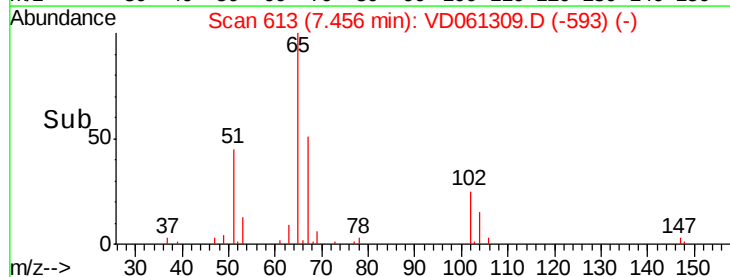
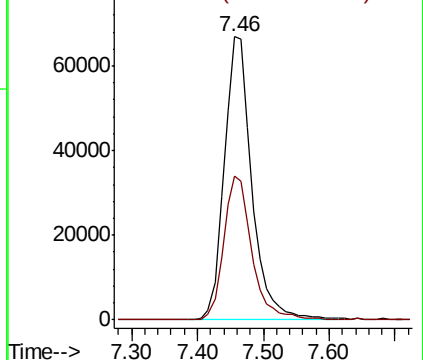
Ion Ratio Lower Upper

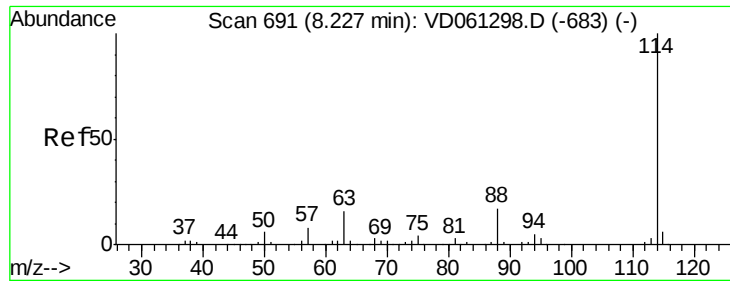
65 100

67 50.8 0.0 100.8



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: 8.22 min Scan# 691

Delta R.T. -0.00 min

Lab File: VD061309.D

Acq: 25 Mar 2019 18:34

Instrument :

MSVOA_D

ClientSampleId :

WP022SB433-190319-FD-(23-25)

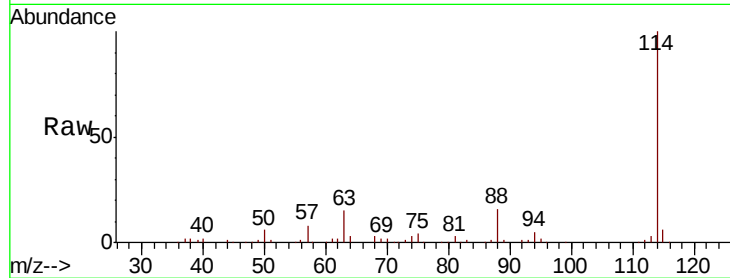
Tot Ion:114 Resp: 1089048

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.4

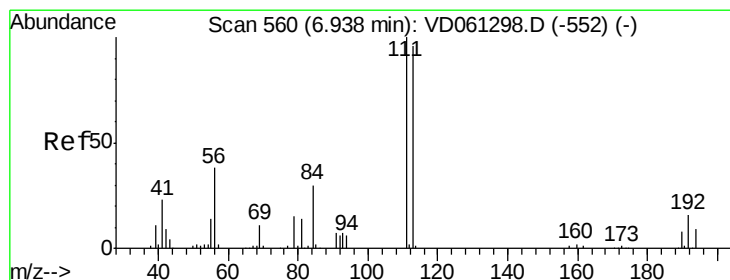
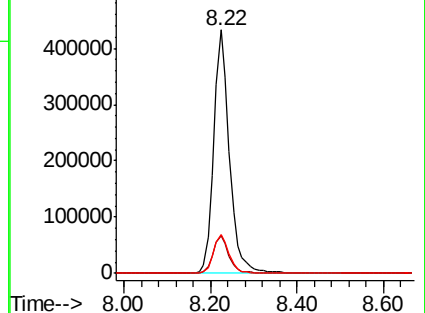
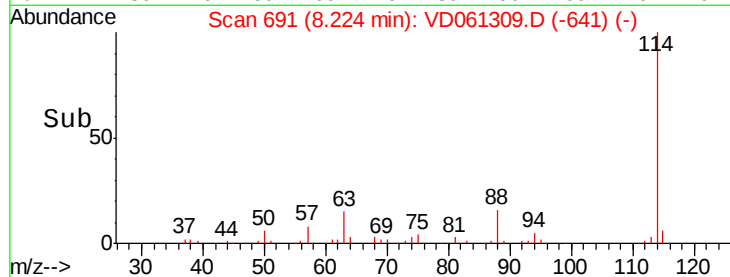
88 15.8 0.0 33.2



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: 6.93 min Scan# 560

Delta R.T. -0.00 min

Lab File: VD061309.D

Acq: 25 Mar 2019 18:34

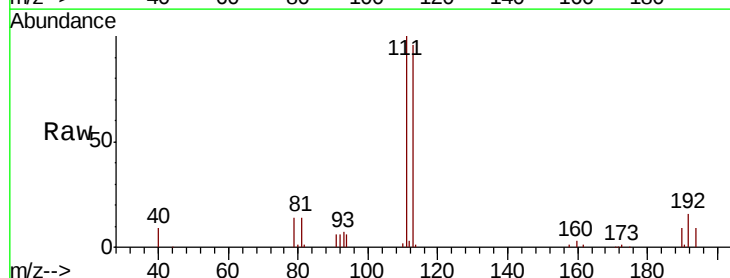
Tgt Ion:113 Resp: 338112

Ion Ratio Lower Upper

113 100

111 104.2 83.7 125.5

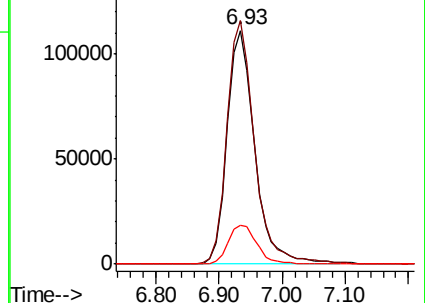
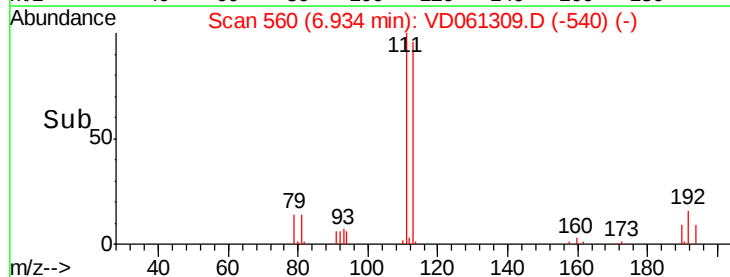
192 16.6 13.4 20.0

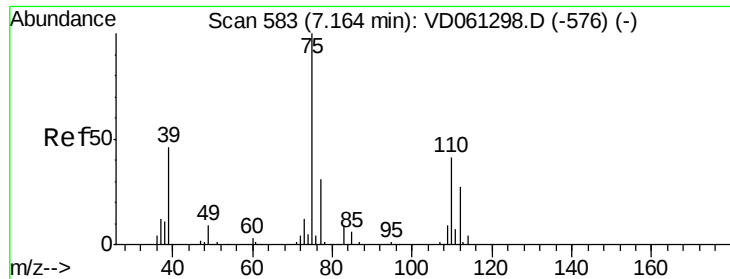


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.204 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.11 min

Lab File: VD061309.D

Acq: 25 Mar 2019 18:34

Instrument :

MSVOA_D

ClientSampleId :

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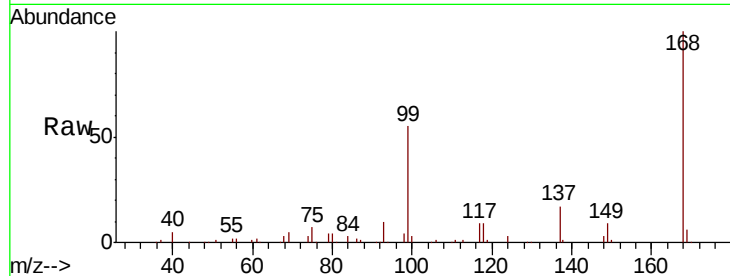
Tot Ion: 75 Resp: 46369

Ion Ratio Lower Upper

75 100

110 6.9 20.1 60.2#

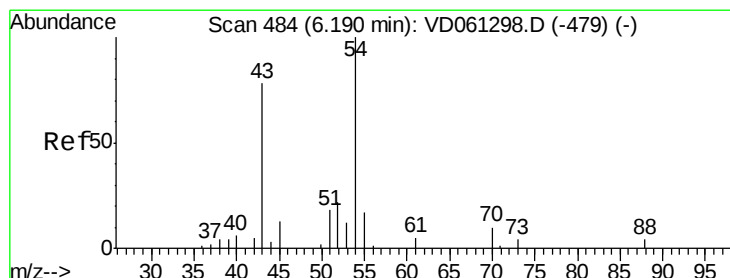
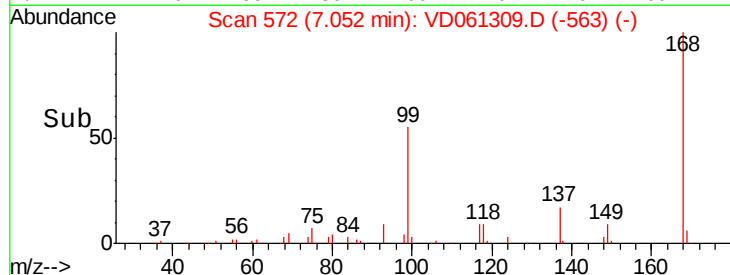
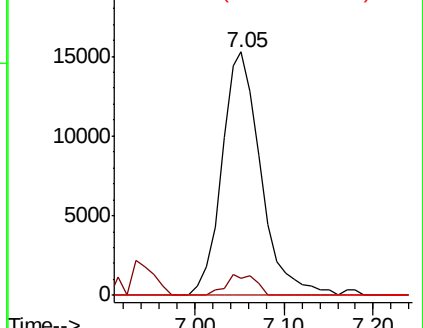
77 0.0 24.3 36.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.512 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.04 min

Lab File: VD061309.D

Acq: 25 Mar 2019 18:34

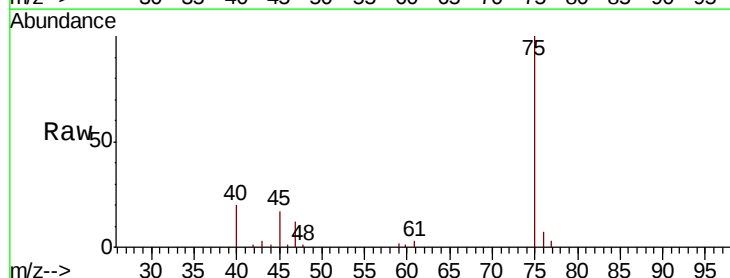
Tgt Ion: 43 Resp: 5627

Ion Ratio Lower Upper

43 100

61 93.7 12.6 19.0#

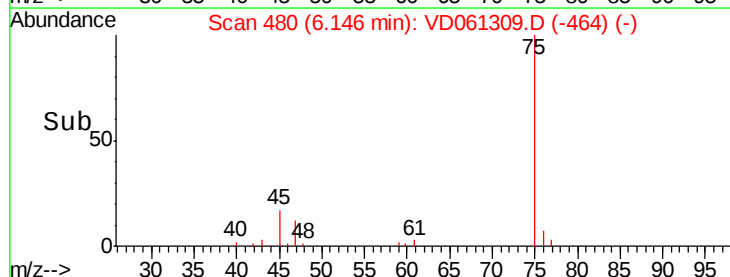
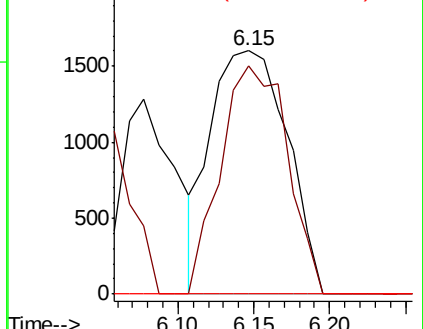
70 0.0 8.2 12.4#

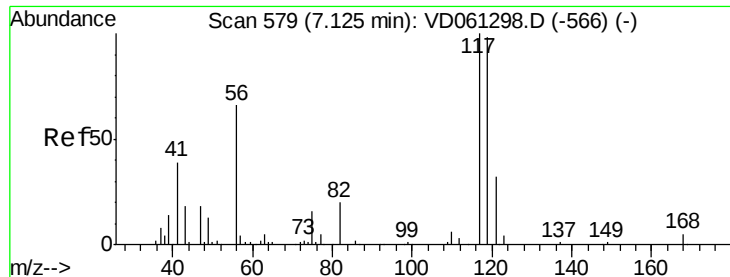


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

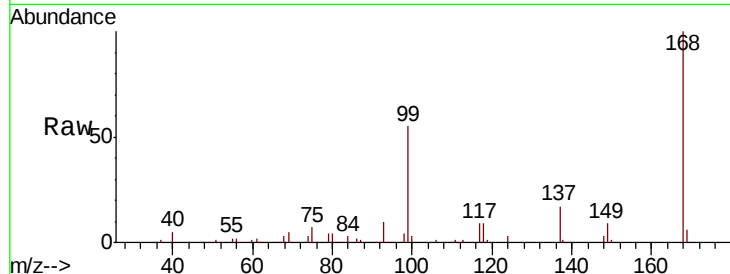




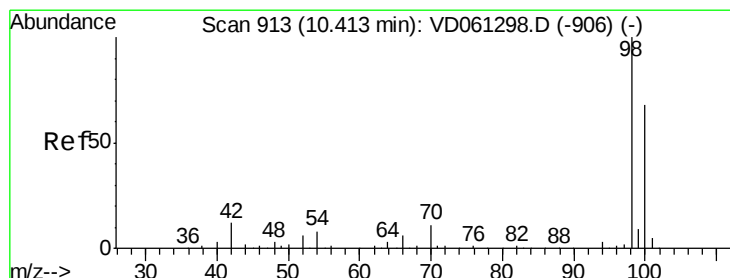
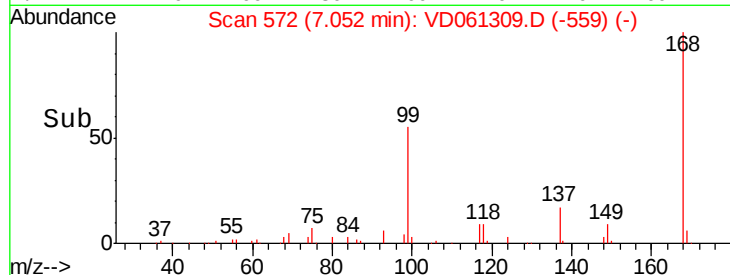
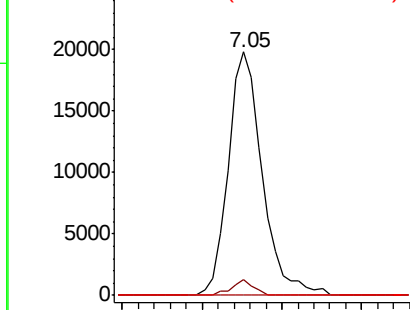
#38
Carbon Tetrachloride
Concen: 5.789 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.07 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Instrument :
MSVOA_D
ClientSampleId :
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Tot Ion:117 Resp: 58956
Ion Ratio Lower Upper
117 100
119 6.3 78.4 117.6#
121 0.0 25.1 37.7#

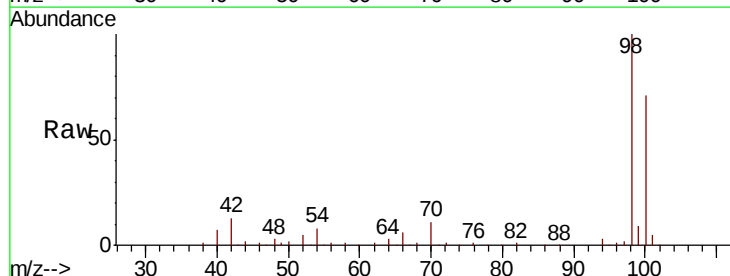


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

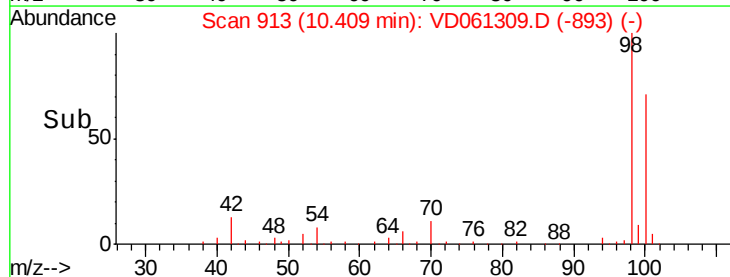
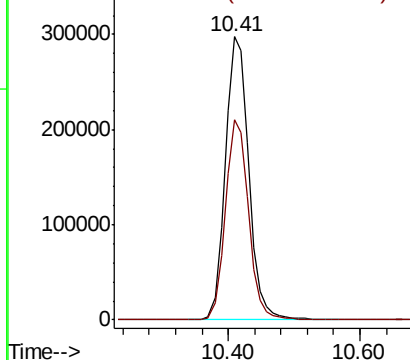


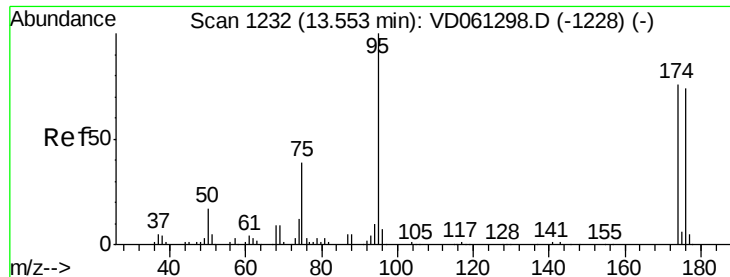
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Tgt Ion: 98 Resp: 742595
Ion Ratio Lower Upper
98 100
100 70.8 55.4 83.0



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

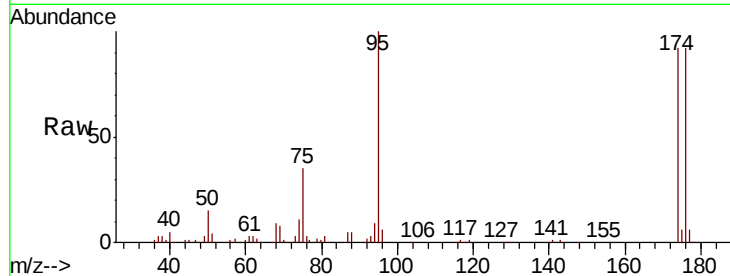




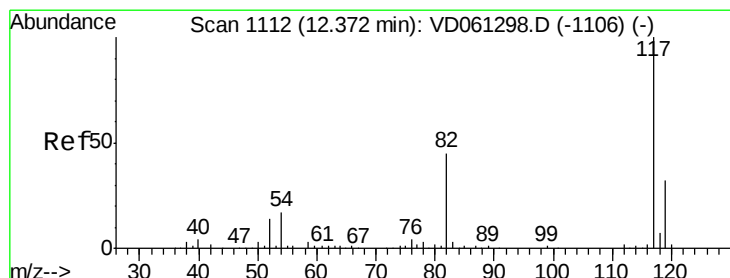
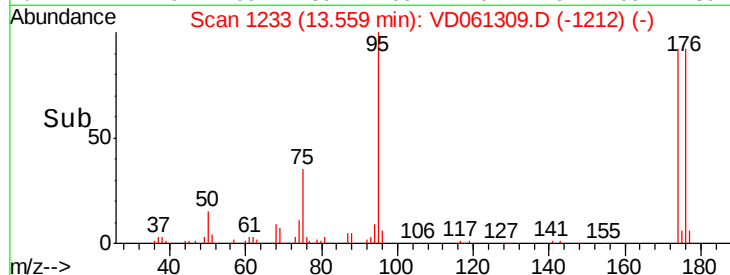
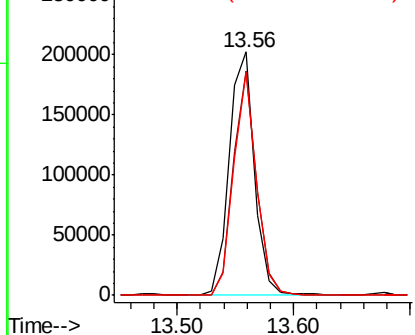
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Instrument :
MSVOA_D
ClientSampleId :
WP022SB433-190319-FD-(23-25)

Tot Ion: 95 Resp: 302914
Ion Ratio Lower Upper
95 100
174 92.1 0.0 151.8
176 91.9 0.0 148.0

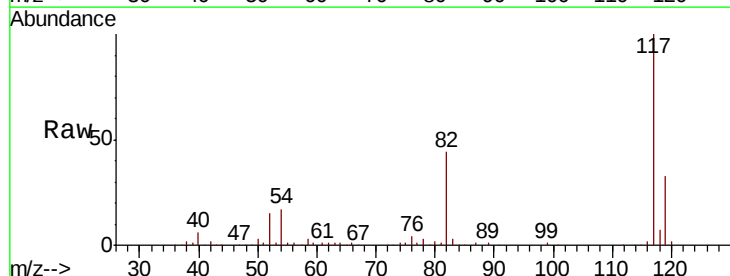


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

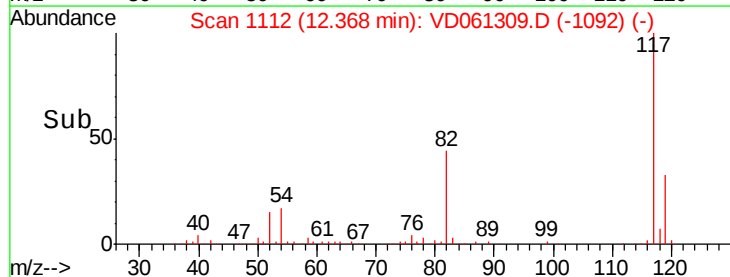
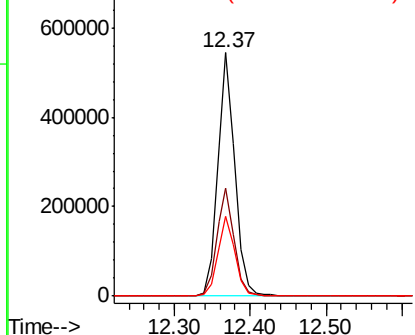


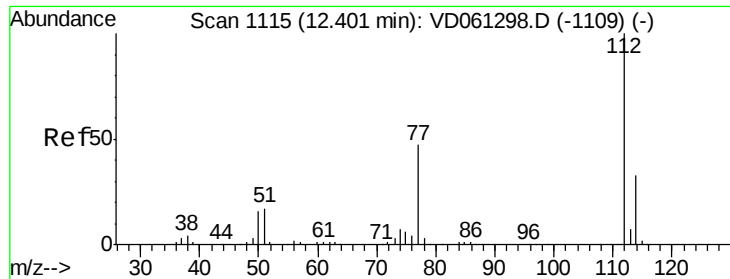
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Tgt Ion: 117 Resp: 866300
Ion Ratio Lower Upper
117 100
82 44.4 35.7 53.5
119 32.8 25.9 38.9



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

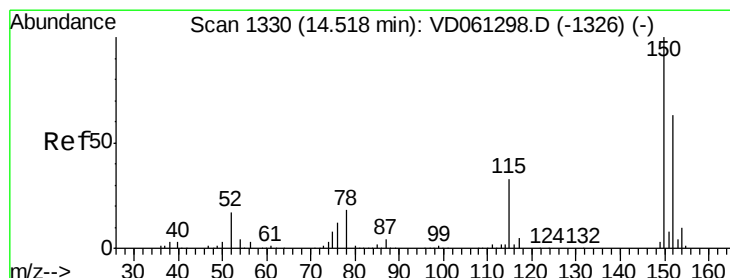
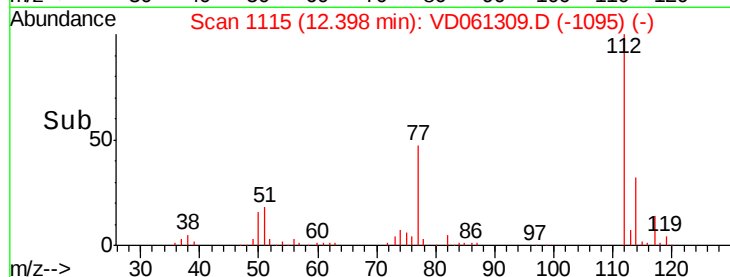
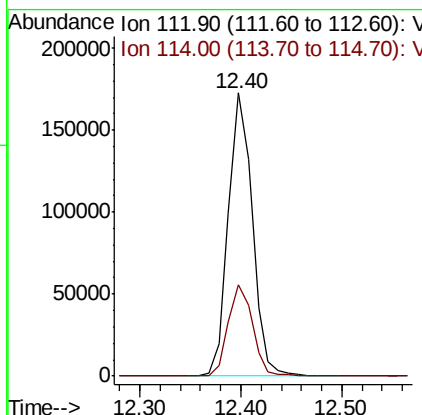
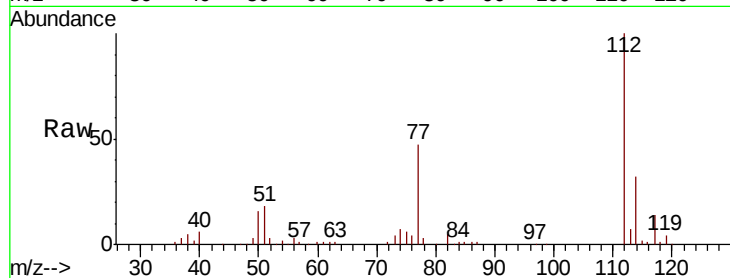




#65
Chlorobenzene
Concen: 17.858 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

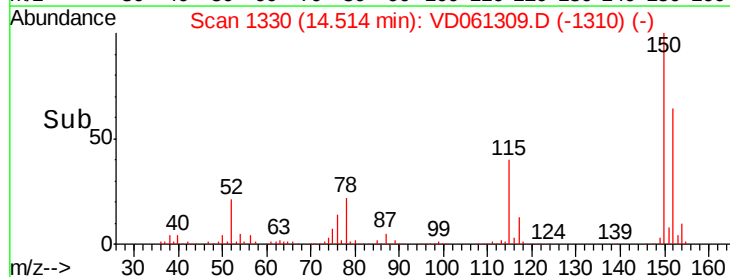
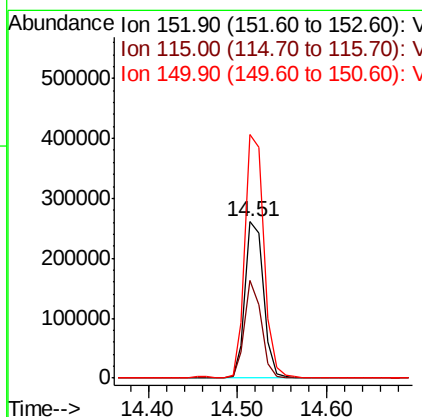
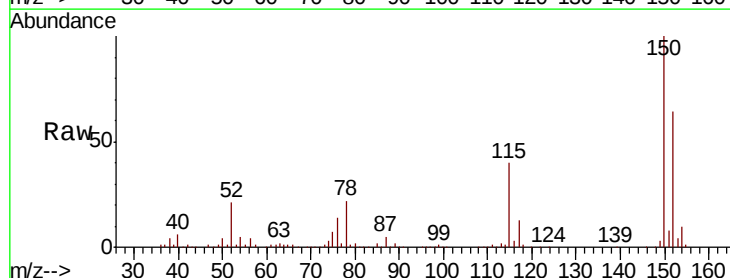
Instrument :
MSVOA_D
ClientSampleId :
WP022SB433-190319-FD-(23-25)

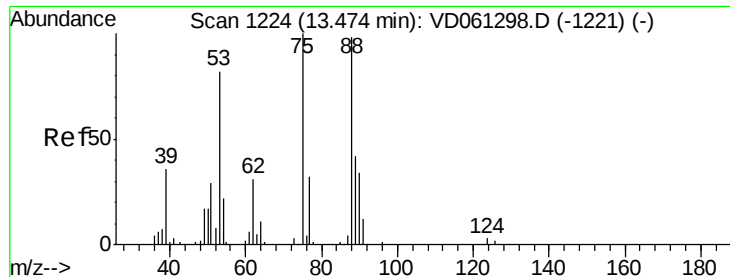
Tot Ion:112 Resp: 284947
Ion Ratio Lower Upper
112 100
114 32.1 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Tgt Ion:152 Resp: 376483
Ion Ratio Lower Upper
152 100
115 62.8 29.2 87.6
150 156.0 0.0 319.6

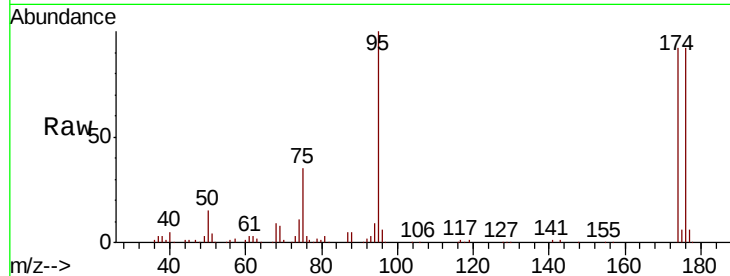




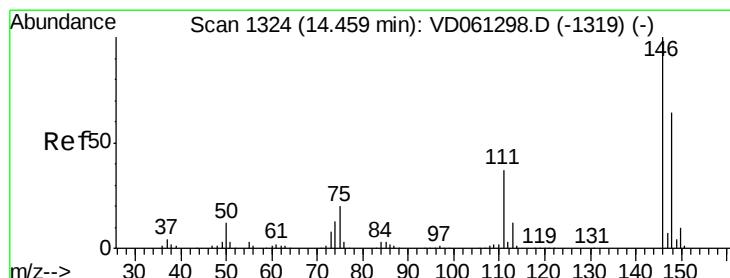
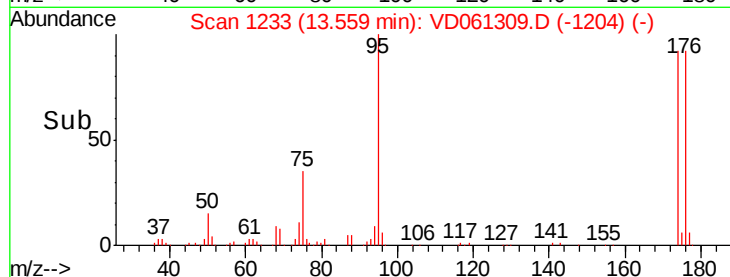
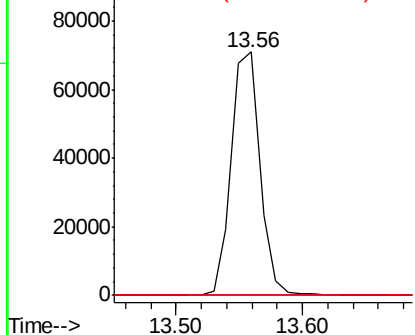
#81
trans-1,4-Dichloro-2-butene
Concen: 75.396 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.08 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Instrument :
MSVOA_D
ClientSampleId :
WP022SB433-190319-FD-(23-25)

Tot Ion: 75 Resp: 111404
Ion Ratio Lower Upper
75 100
53 0.0 65.3 97.9#
89 0.0 33.8 50.6#

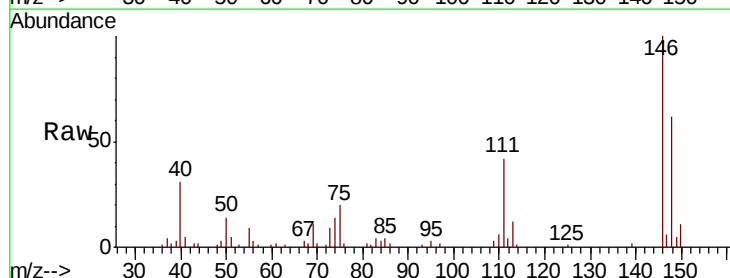


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

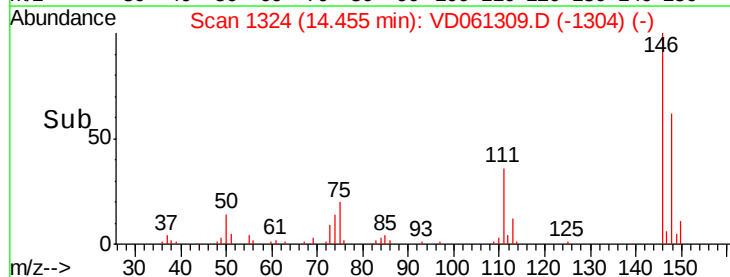
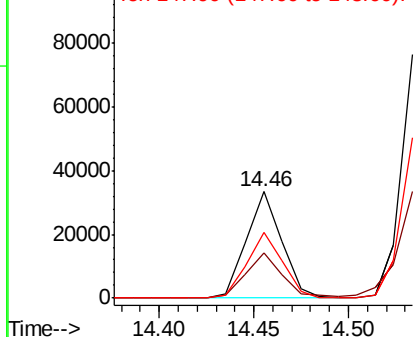


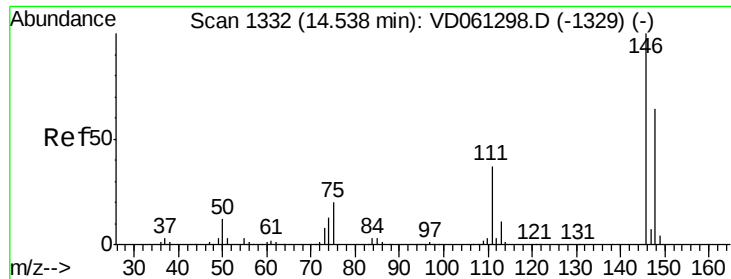
#87
1,3-Dichlorobenzene
Concen: 3.556 ug/l
RT: 14.46 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Tgt Ion: 146 Resp: 43112
Ion Ratio Lower Upper
146 100
111 42.3 18.4 55.0
148 62.1 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

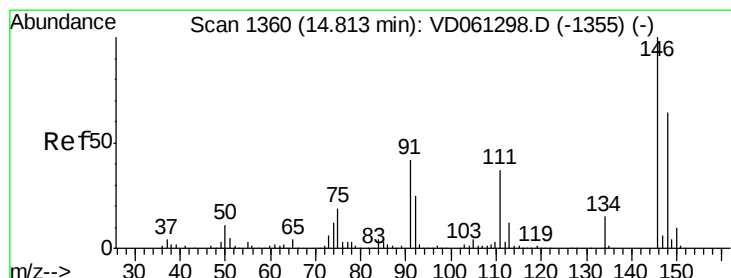
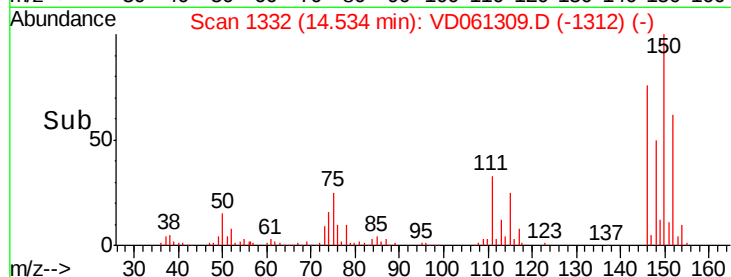
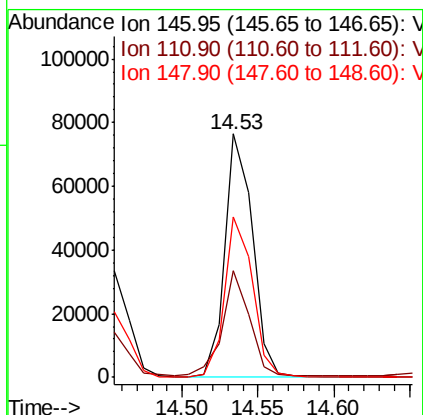
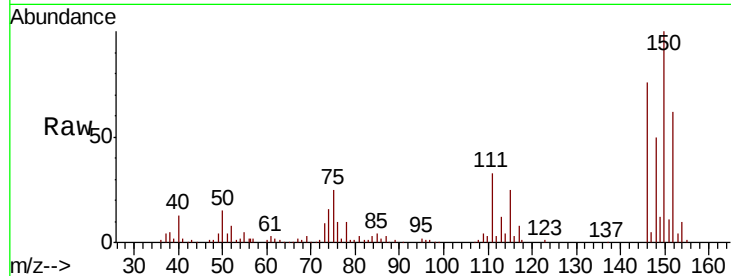




#88
1,4-Dichlorobenzene
Concen: 8.297 ug/l
RT: 14.53 min Scan# 1332
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Instrument :
MSVOA_D
ClientSampleId :
WP022SB433-190319-FD-(23-25)

Tot Ion:146 Resp: 97447
Ion Ratio Lower Upper
146 100
111 43.6 18.6 55.6
148 66.0 31.9 95.5



#91
1,2-Dichlorobenzene
Concen: 13.285 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. -0.00 min
Lab File: VD061309.D
Acq: 25 Mar 2019 18:34

Tgt Ion:146 Resp: 128526
Ion Ratio Lower Upper
146 100
111 38.6 18.3 54.8
148 63.0 31.9 95.7

