

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061328.D
 Acq On : 26 Mar 2019 5:42
 Operator : VA/AP
 Sample : K2047-01
 Misc : 5.86g/5ml/MSVOA D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(26-28)

Quant Time: Mar 26 07:10:27 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	566264	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	969110	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	777095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	313076	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	207607	42.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.98%	
35) Dibromofluoromethane	6.93	113	327206	44.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.24%	
50) Toluene-d8	10.41	98	702836	39.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.18%	
62) 4-Bromofluorobenzene	13.55	95	254288	36.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	72.50%	

Target Compounds

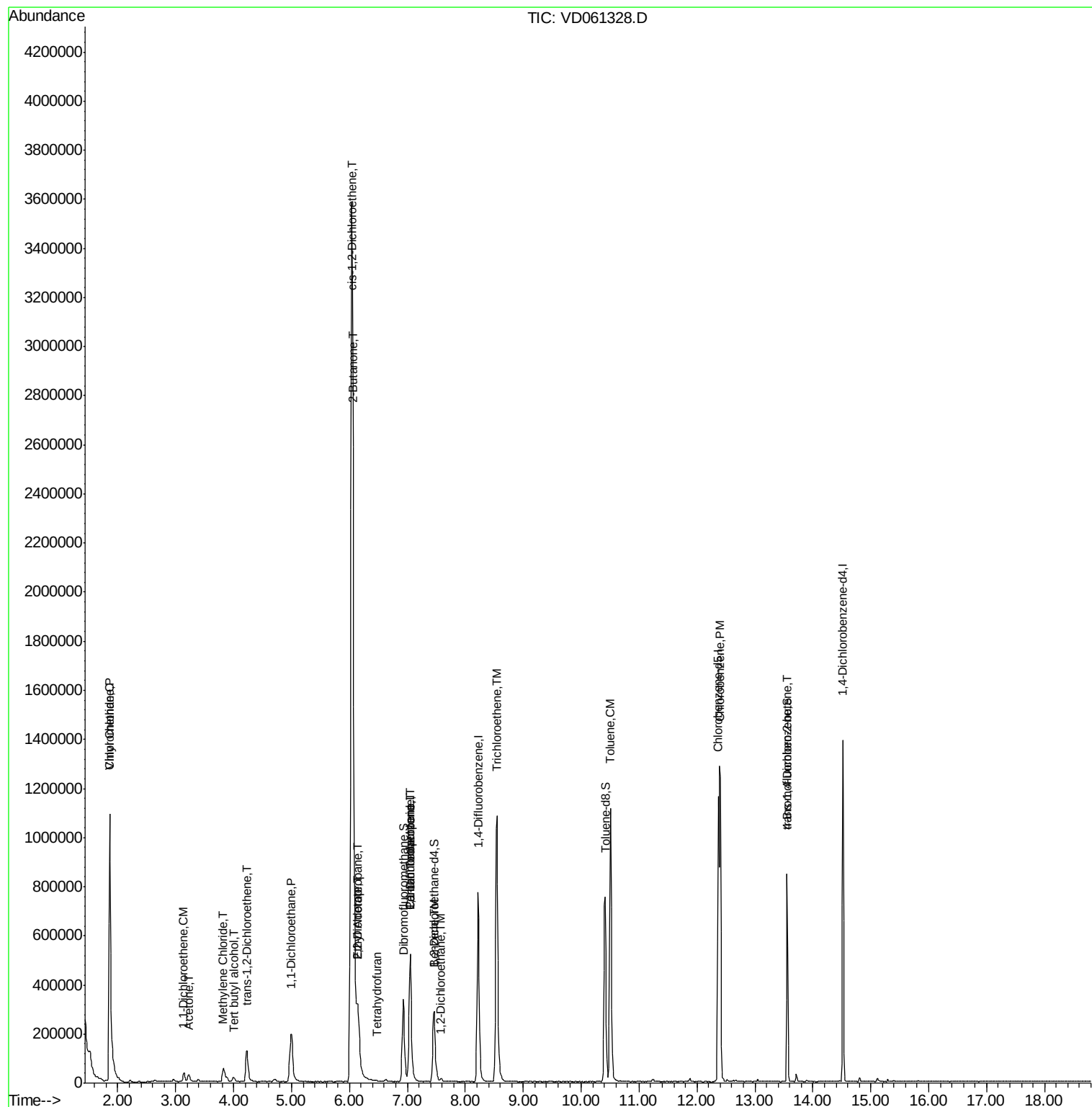
						Qvalue
3) Chloromethane	1.86	50	9094	2.014	ug/l #	41
4) Vinyl Chloride	1.86	62	1493180	353.596	ug/l	97
11) Tert butyl alcohol	3.99	59	19014	73.110	ug/l #	77
12) 1,1-Dichloroethene	3.14	96	22118	4.046	ug/l	98
16) Acetone	3.23	43	58750	50.274	ug/l	95
20) Methylene Chloride	3.83	84	42977	6.480	ug/l	97
21) trans-1,2-Dichloroethene	4.22	96	88861	14.530	ug/l	95
24) 1,1-Dichloroethane	4.99	63	365559	38.398	ug/l	98
25) 2-Butanone	6.07	43	3503	2.592	ug/l #	1
26) 2,2-Dichloropropane	6.15	77	13454	1.664	ug/l	89
27) cis-1,2-Dichloroethene	6.04	96	3088437	469.259	ug/l	95
29) Tetrahydrofuran	6.48	42	1487	2.210	ug/l #	31
36) 1,1-Dichloropropene	7.05	75	38571	4.865	ug/l #	46
37) Ethyl Acetate	6.15	43	10854	3.277	ug/l #	1
38) Carbon Tetrachloride	7.05	117	55648	6.141	ug/l #	15
40) Benzene	7.46	78	96152	4.883	ug/l	99
42) 1,2-Dichloroethane	7.59	62	12258	1.997	ug/l	96
44) Trichloroethene	8.54	130	566093	79.489	ug/l	100
52) Toluene	10.50	92	660486	54.817	ug/l	98
65) Chlorobenzene	12.40	112	807369	56.406	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.55	75	95053	77.358	ug/l #	17

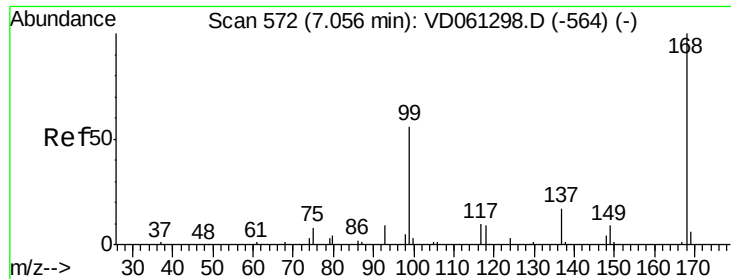
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 26 03:31:57 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

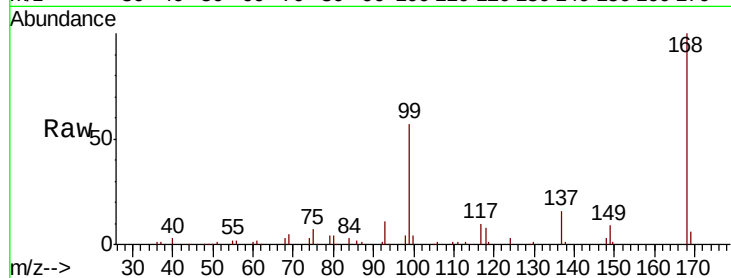
WP022SB432-190320-(26-28)

Tot Ion:168 Resp: 566264

Ion Ratio Lower Upper

168 100

99 57.1 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

200000

150000

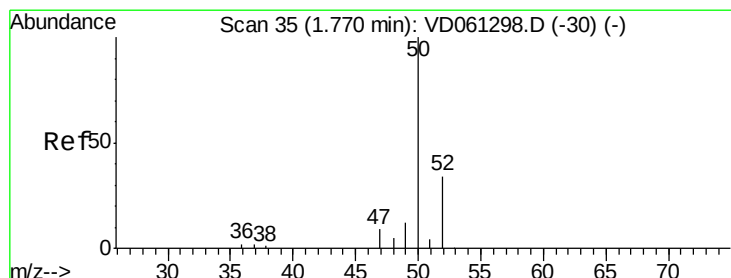
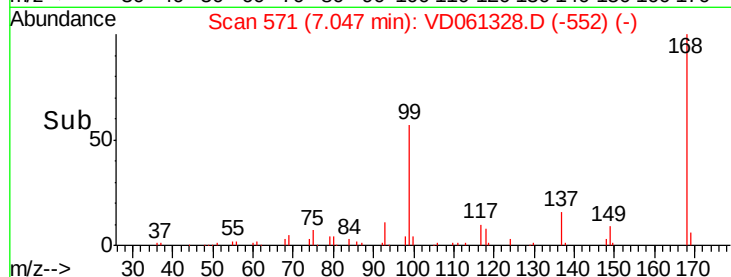
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#3

Chloromethane

Concen: 2.014 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.09 min

Lab File: VD061328.D

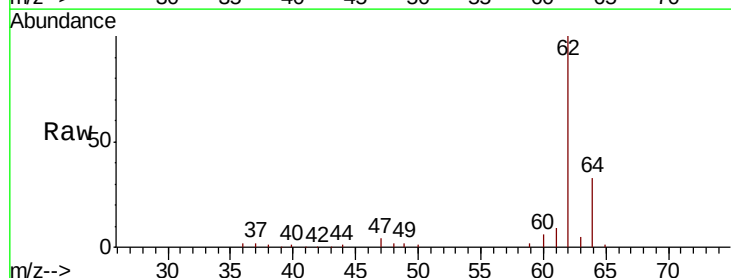
Acq: 26 Mar 2019 5:42

Tgt Ion: 50 Resp: 9094

Ion Ratio Lower Upper

50 100

52 0.0 27.1 40.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.86

4000

3000

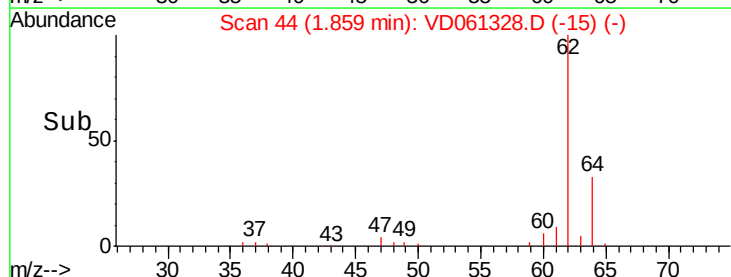
2000

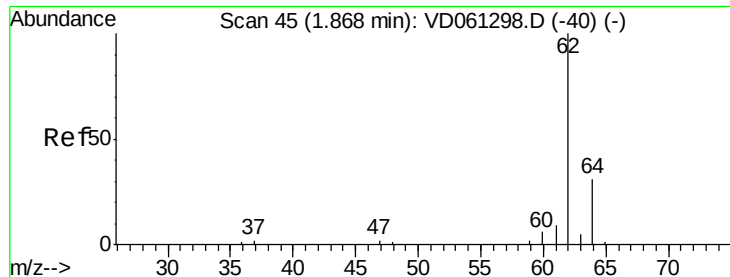
1000

0

1.80 1.85 1.90 1.95

Time-->





#4

Vinyl Chloride

Concen: 353.596 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

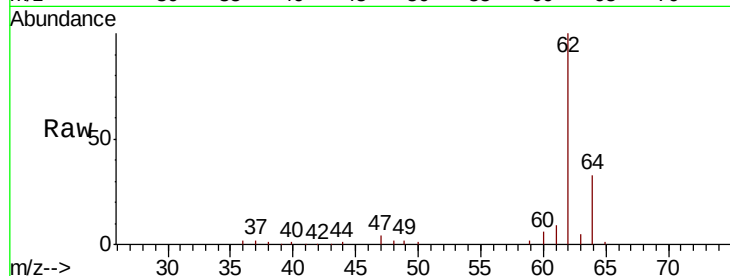
WP022SB432-190320-(26-28)

Tot Ion: 62 Resp: 1493180

Ion Ratio Lower Upper

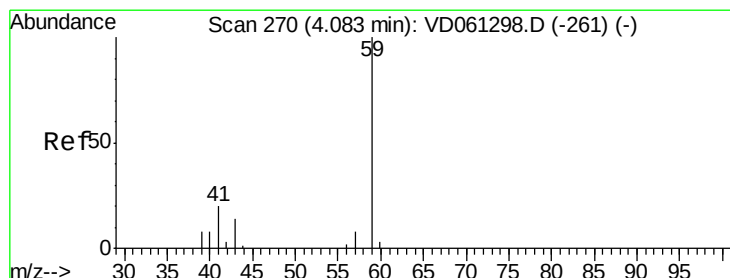
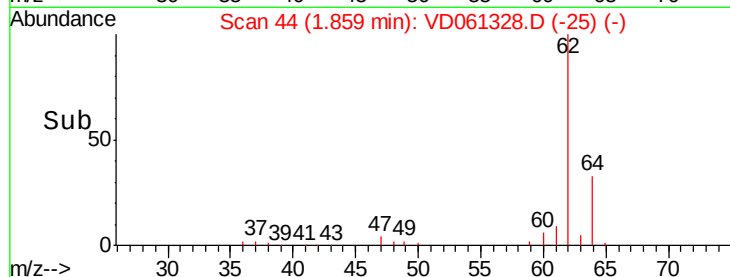
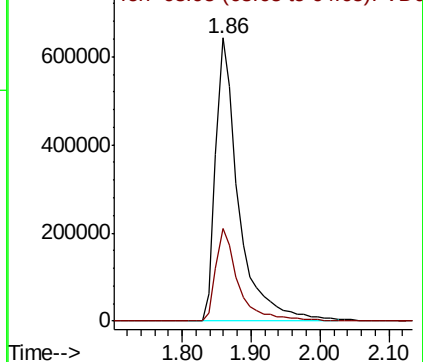
62 100

64 33.0 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



#11

Tert butyl alcohol

Concen: 73.110 ug/l

RT: 3.99 min Scan# 261

Delta R.T. -0.09 min

Lab File: VD061328.D

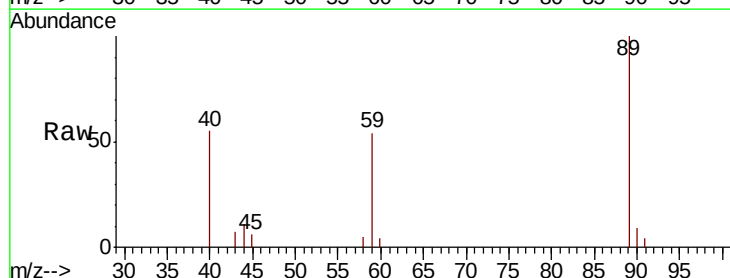
Acq: 26 Mar 2019 5:42

Tgt Ion: 59 Resp: 19014

Ion Ratio Lower Upper

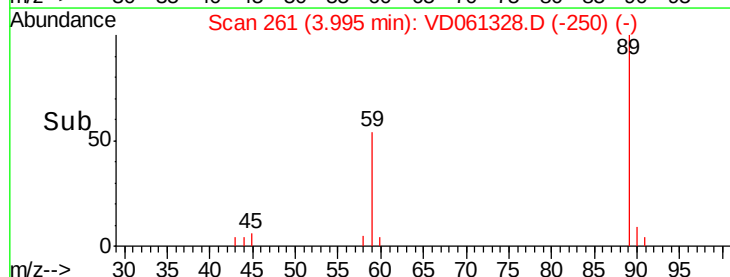
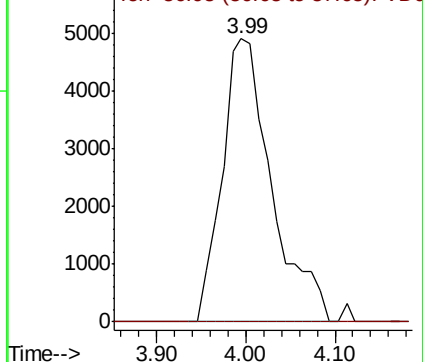
59 100

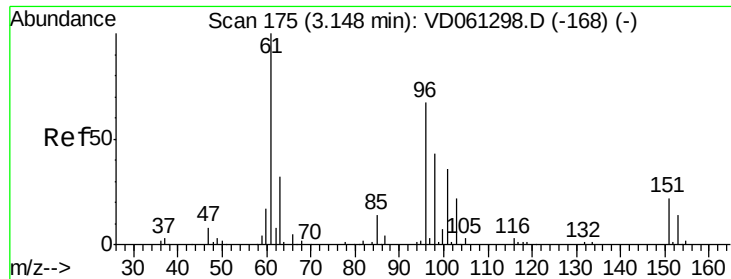
57 0.0 6.6 9.8#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#12

1,1-Dichloroethene

Concen: 4.046 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.01 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(26-28)

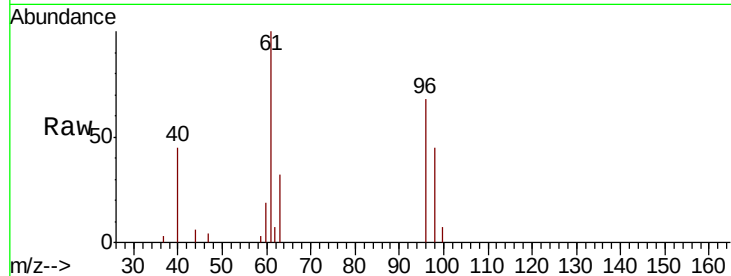
Tot Ion: 96 Resp: 22118

Ion Ratio Lower Upper

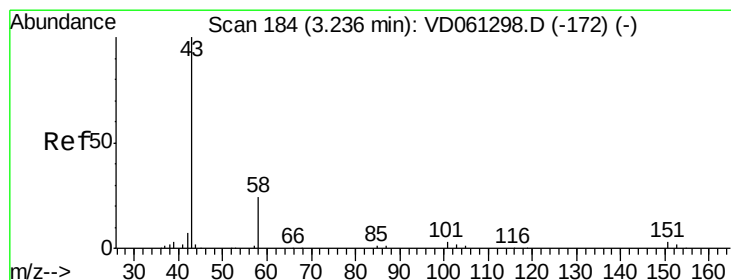
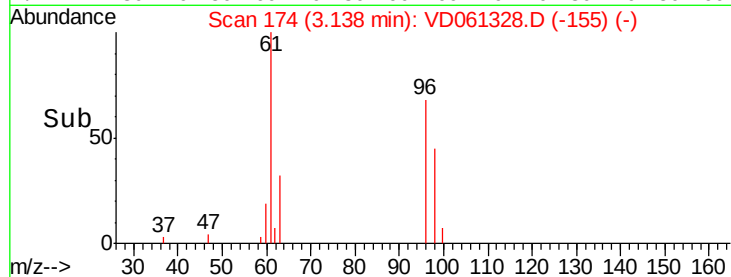
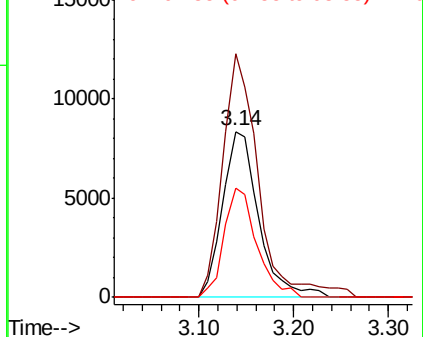
96 100

61 146.7 120.2 180.2

98 65.8 52.2 78.4



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#16

Acetone

Concen: 50.274 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD061328.D

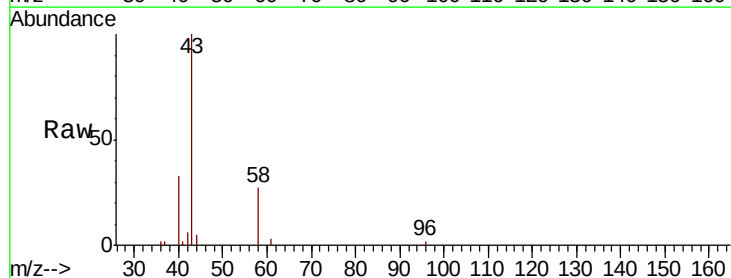
Acq: 26 Mar 2019 5:42

Tgt Ion: 43 Resp: 58750

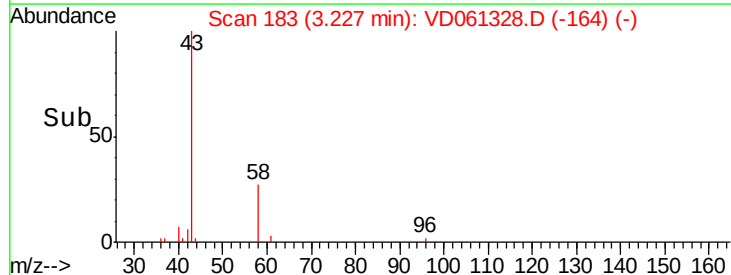
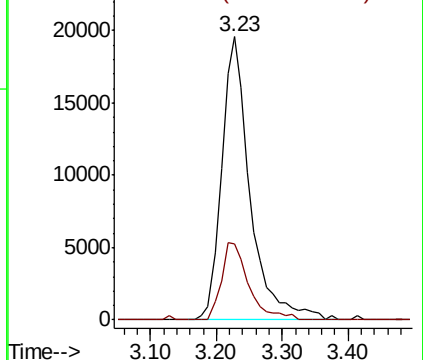
Ion Ratio Lower Upper

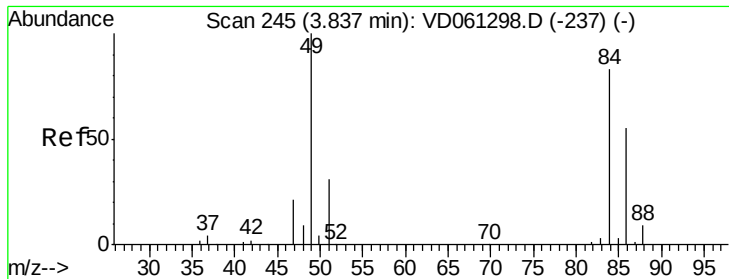
43 100

58 26.8 19.4 29.0



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

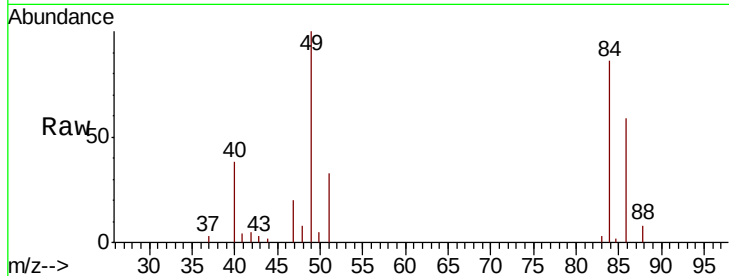




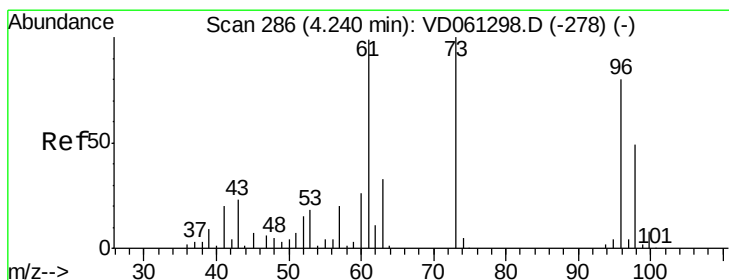
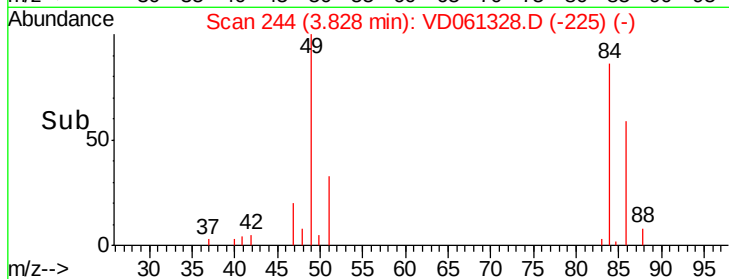
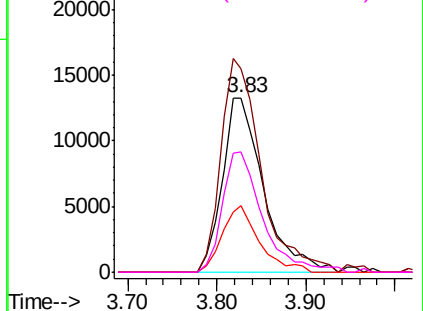
#20
Methylene Chloride
Concen: 6.480 ug/l
RT: 3.83 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(26-28)

Tot Ion:	84	Resp:	42977
Ion	Ratio	Lower	Upper
84	100		
49	116.5	96.8	145.2
51	38.3	29.9	44.9
86	69.2	53.1	79.7

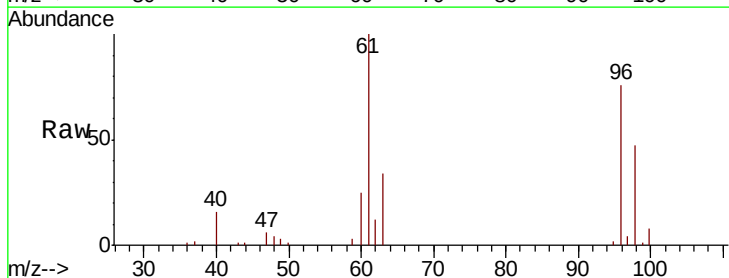


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

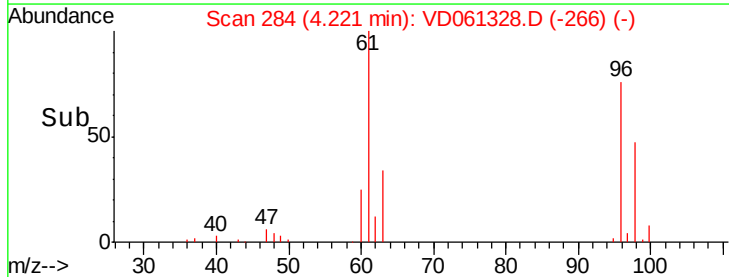
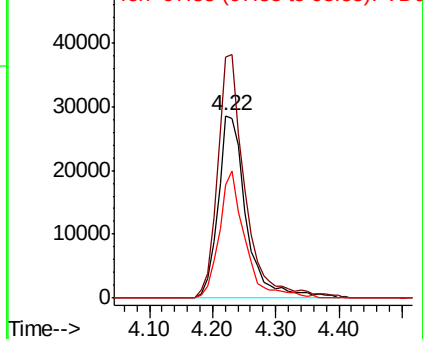


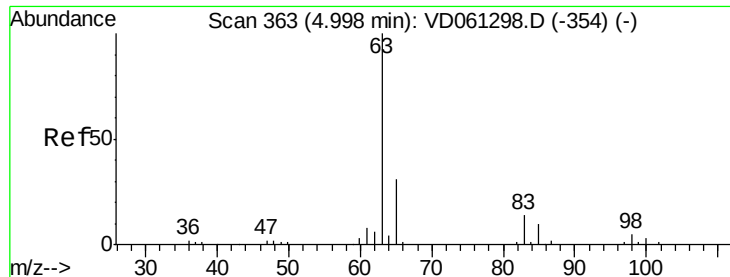
#21
trans-1,2-Dichloroethene
Concen: 14.530 ug/l
RT: 4.22 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Tgt Ion:	96	Resp:	88861
Ion	Ratio	Lower	Upper
96	100		
61	132.2	99.2	148.8
98	62.3	49.2	73.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#24

1,1-Dichloroethane

Concen: 38.398 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.01 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(26-28)

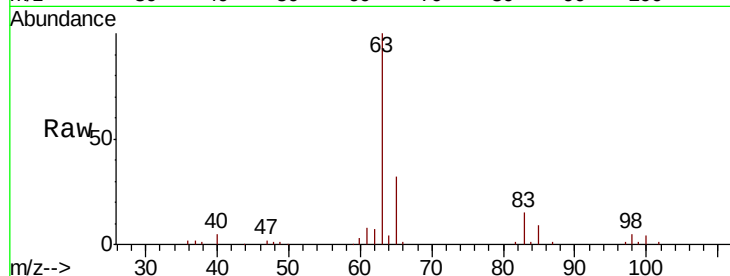
Tot Ion: 63 Resp: 365559

Ion Ratio Lower Upper

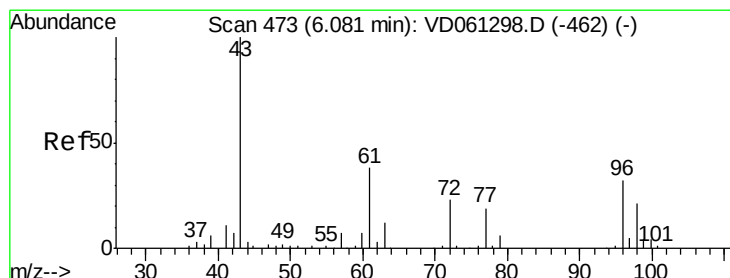
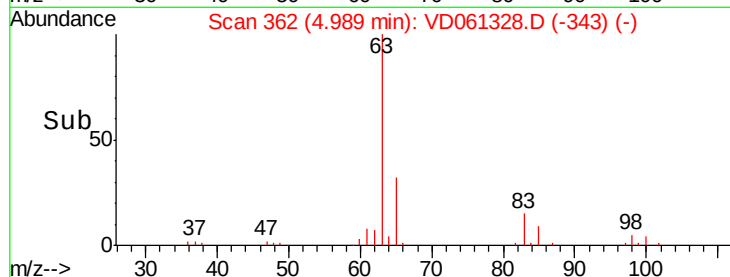
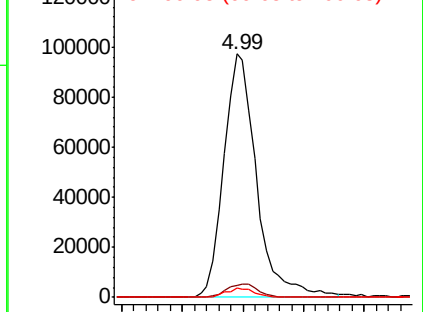
63 100

98 5.1 2.8 8.3

100 4.0 1.6 4.8



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#25

2-Butanone

Concen: 2.592 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD061328.D

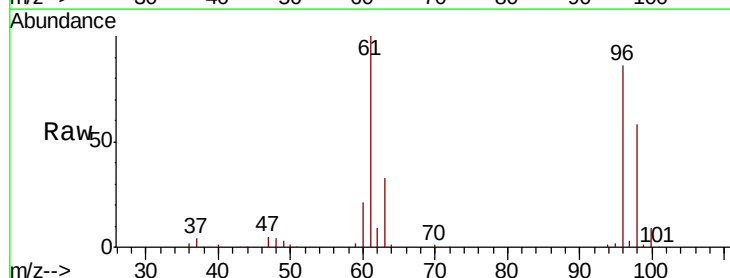
Acq: 26 Mar 2019 5:42

Tgt Ion: 43 Resp: 3503

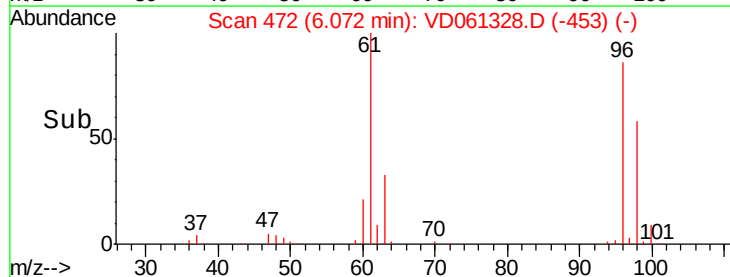
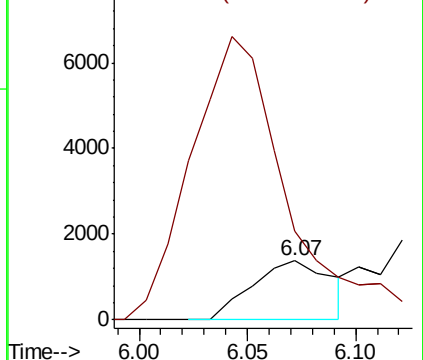
Ion Ratio Lower Upper

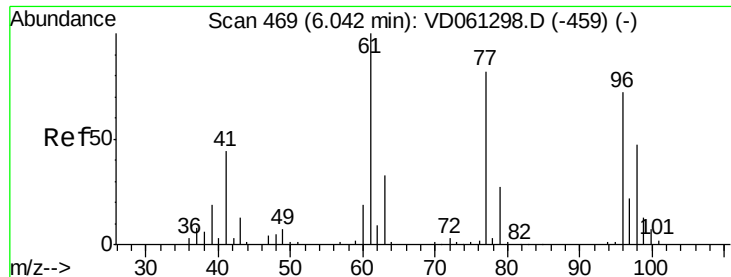
43 100

72 151.4 18.5 27.7#



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

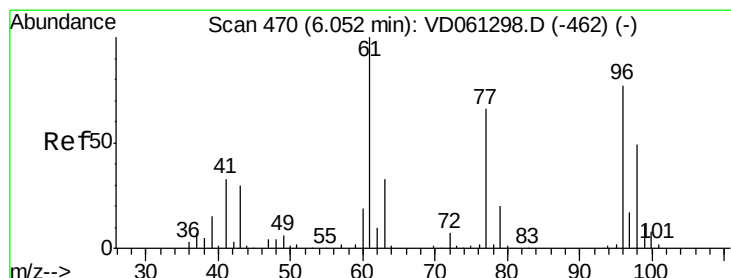
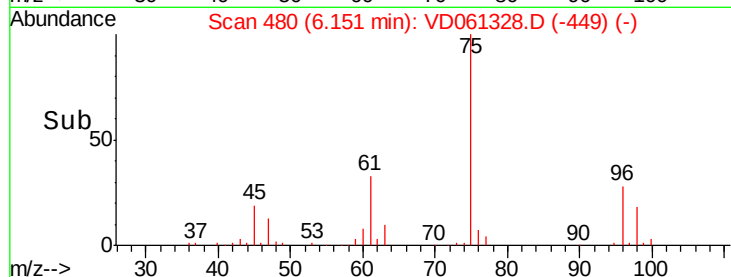
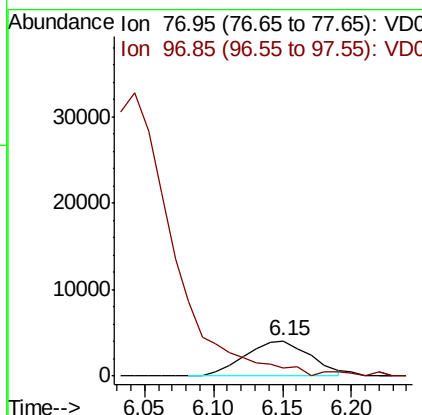
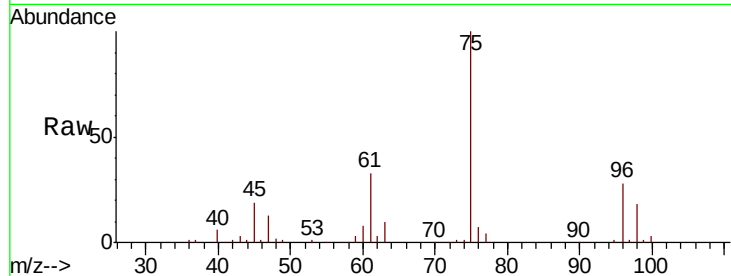




#26
 2,2-Dichloropropane
 Concen: 1.664 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. 0.11 min
 Lab File: VD061328.D
 Acq: 26 Mar 2019 5:42

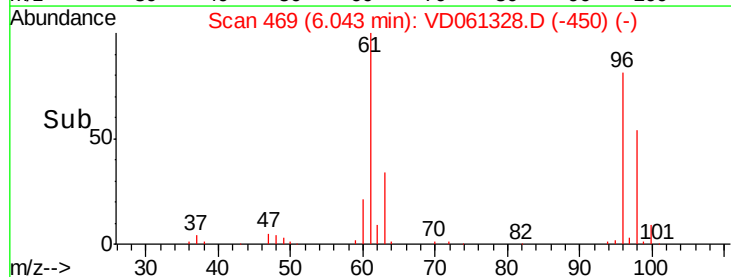
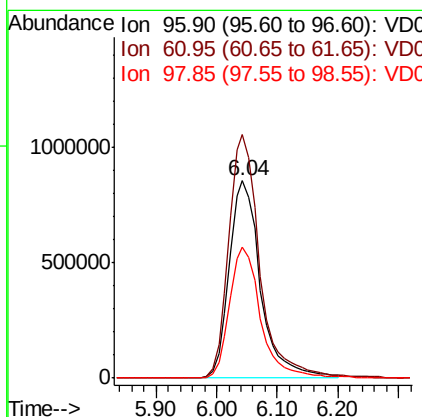
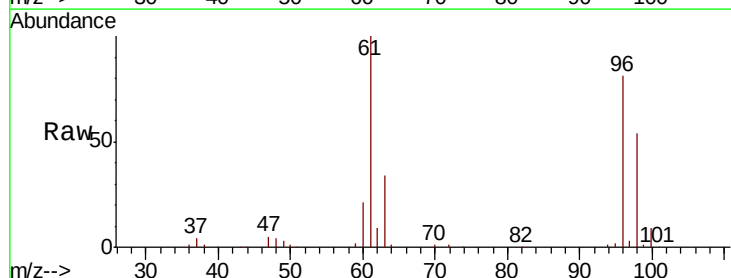
Instrument :
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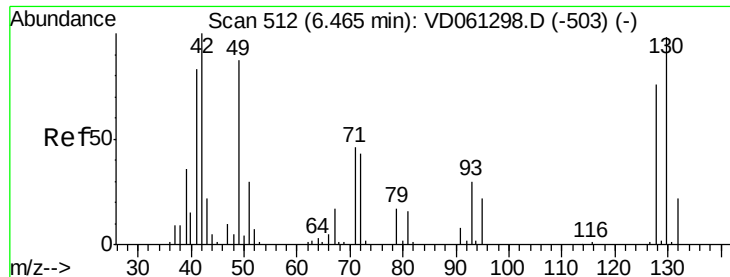
Tot Ion: 77 Resp: 13454
 Ion Ratio Lower Upper
 77 100
 97 21.4 13.5 40.5



#27
 cis-1,2-Dichloroethene
 Concen: 469.259 ug/l
 RT: 6.04 min Scan# 469
 Delta R.T. -0.01 min
 Lab File: VD061328.D
 Acq: 26 Mar 2019 5:42

Tgt Ion: 96 Resp: 3088437
 Ion Ratio Lower Upper
 96 100
 61 123.5 0.0 261.0
 98 66.4 0.0 127.6





#29

Tetrahydrofuran

Concen: 2.210 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.01 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(26-28)

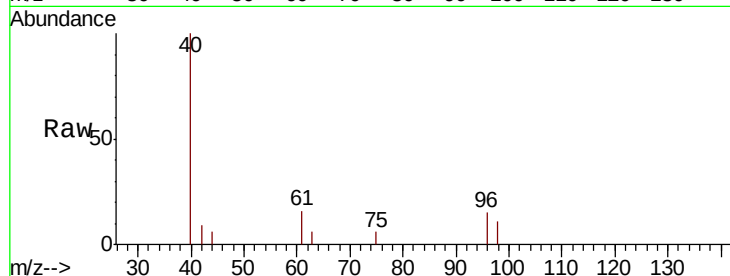
Tot Ion: 42 Resp: 1487

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 36.3 54.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

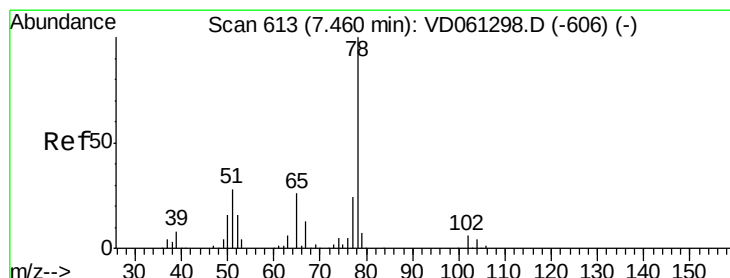
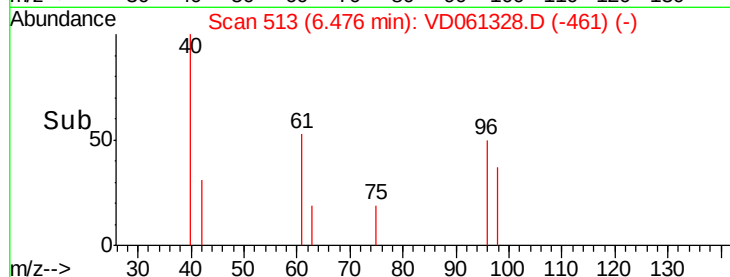
Ion 71.00 (70.70 to 71.70): VDC

6.48

400

200

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061328.D

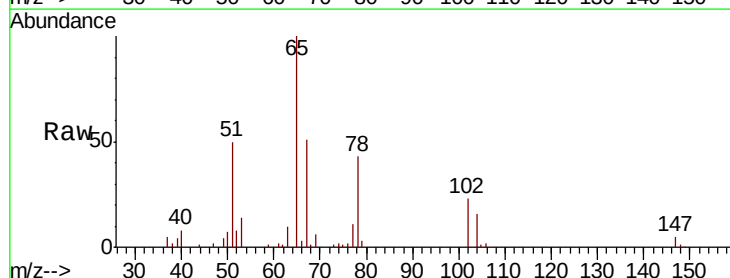
Acq: 26 Mar 2019 5:42

Tgt Ion: 65 Resp: 207607

Ion Ratio Lower Upper

65 100

67 51.5 0.0 100.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

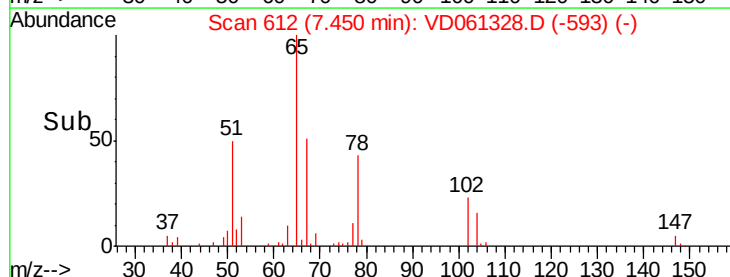
Ion 66.90 (66.60 to 67.60): VDC

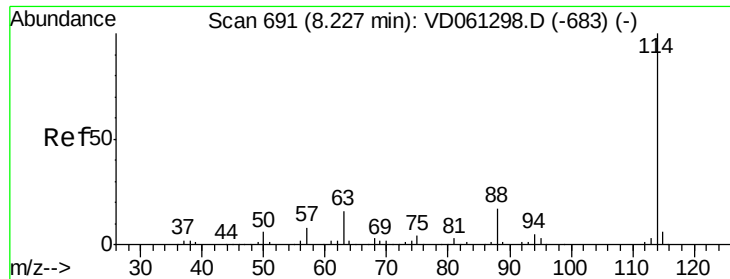
7.45

40000

20000

Time-->

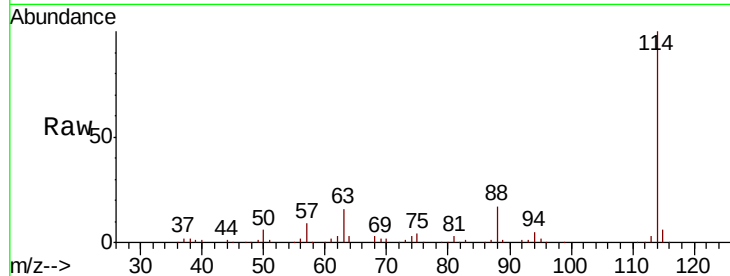




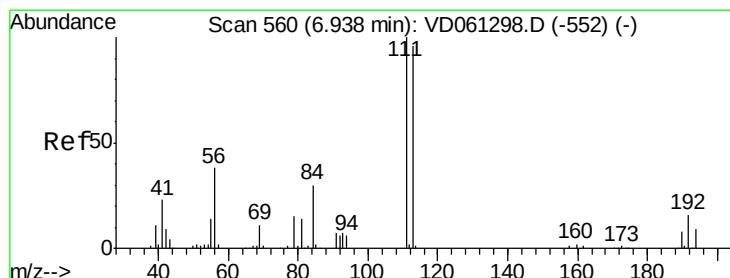
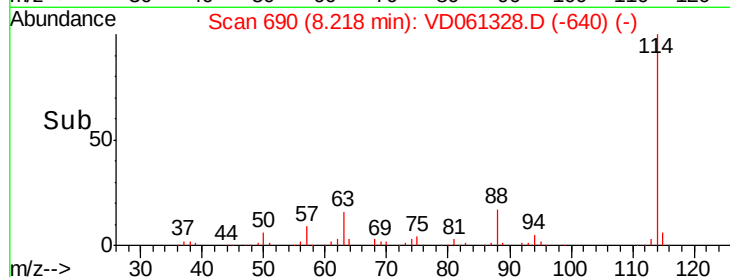
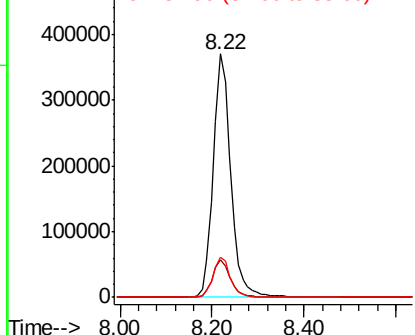
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061328.D
 Acq: 26 Mar 2019 5:42

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(26-28)

Tot Ion:114 Resp: 969110
 Ion Ratio Lower Upper
 114 100
 63 15.5 0.0 31.4
 88 16.6 0.0 33.2

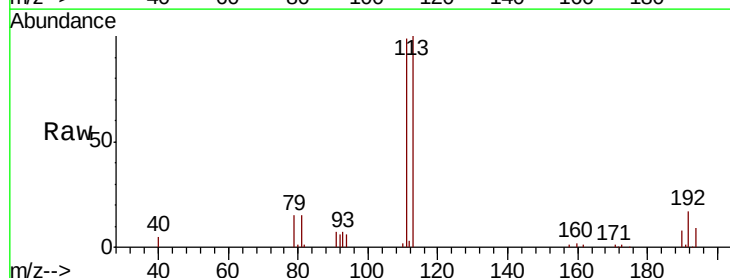


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

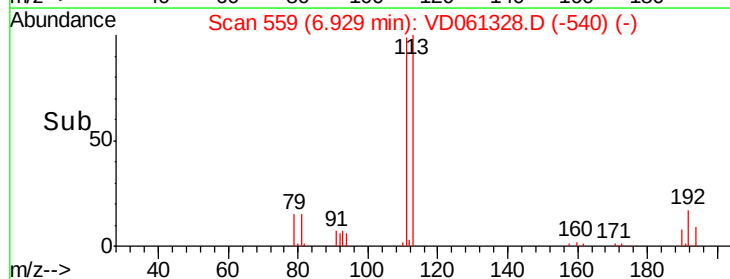
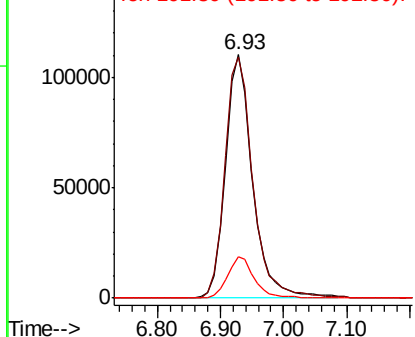


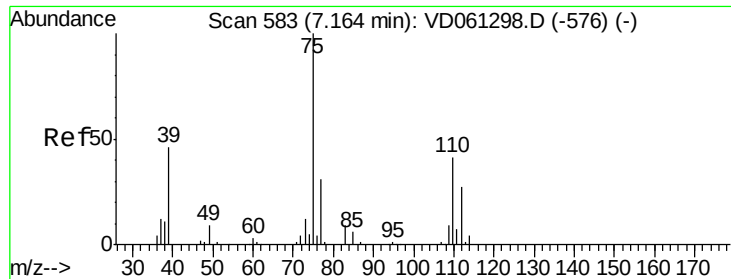
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD061328.D
 Acq: 26 Mar 2019 5:42

Tgt Ion:113 Resp: 327206
 Ion Ratio Lower Upper
 113 100
 111 99.2 83.7 125.5
 192 16.7 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

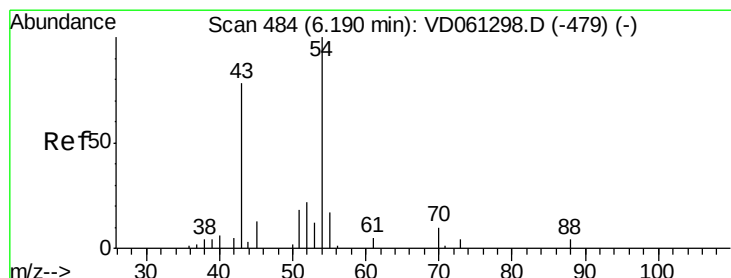
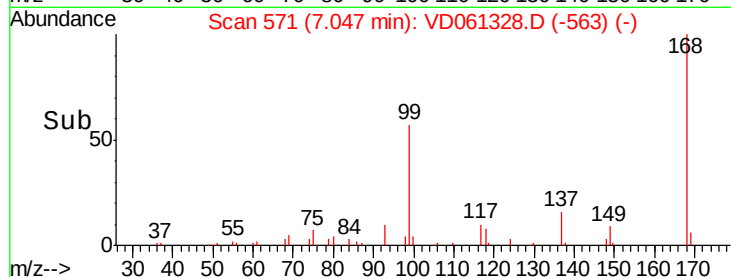
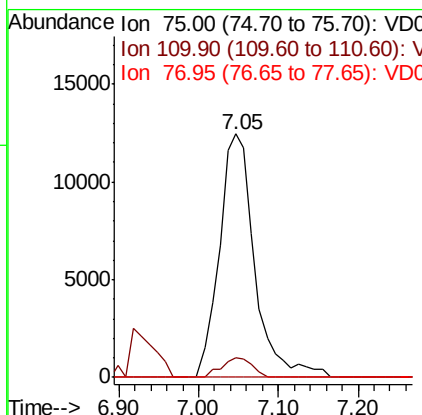
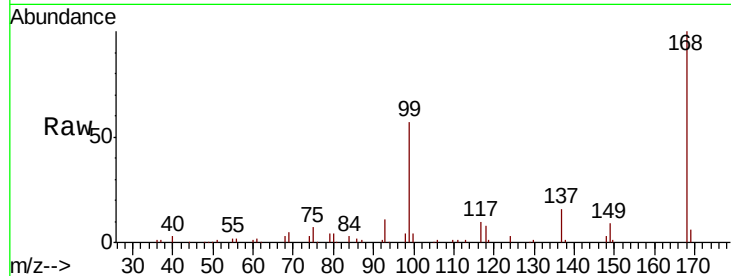




#36
 1,1-Dichloropropene
 Concen: 4.865 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD061328.D
 Acq: 26 Mar 2019 5:42

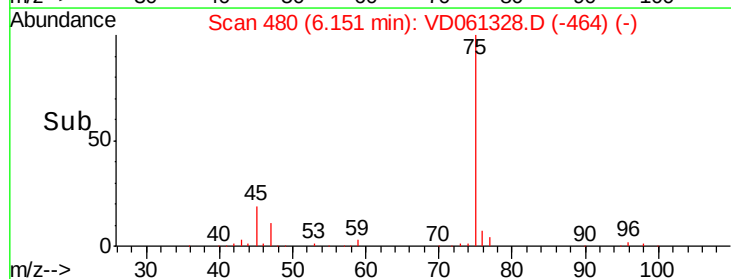
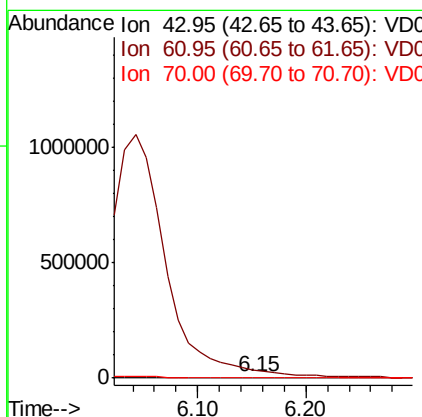
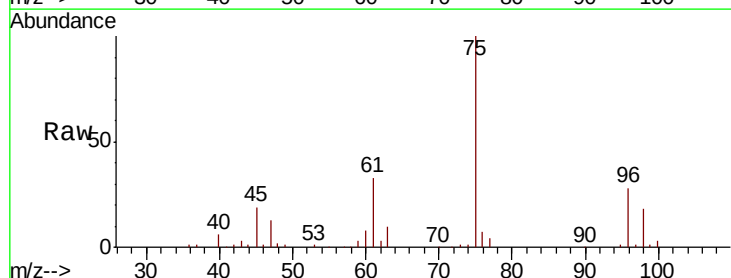
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB432-190320-(26-28)

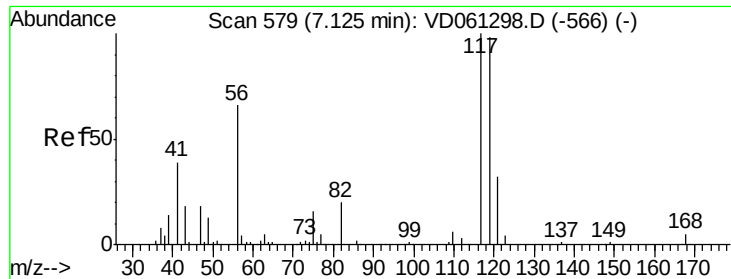
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	20.1	60.2#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 3.277 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. -0.04 min
 Lab File: VD061328.D
 Acq: 26 Mar 2019 5:42

Tgt Ion	Ratio	Lower	Upper
43	100		
61	1146.9	12.6	19.0#
70	11.1	8.2	12.4





#38

Carbon Tetrachloride

Concen: 6.141 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(26-28)

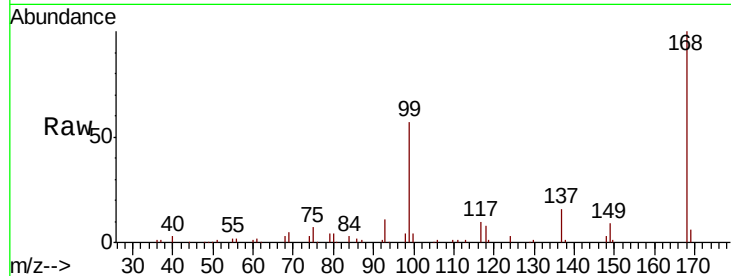
Tot Ion:117 Resp: 55648

Ion Ratio Lower Upper

117 100

119 5.1 78.4 117.6#

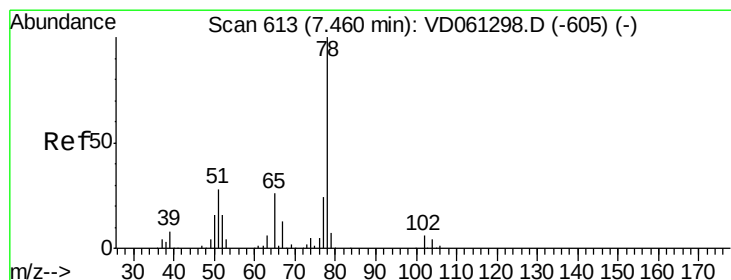
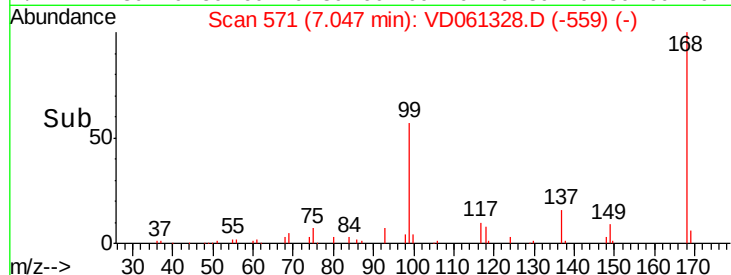
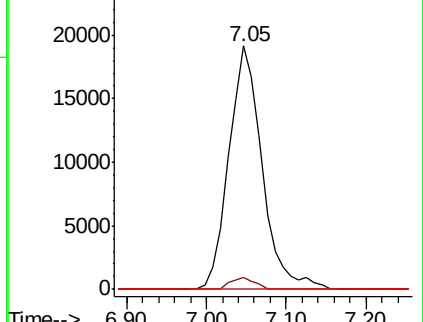
121 0.0 25.1 37.7#



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



#40

Benzene

Concen: 4.883 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD061328.D

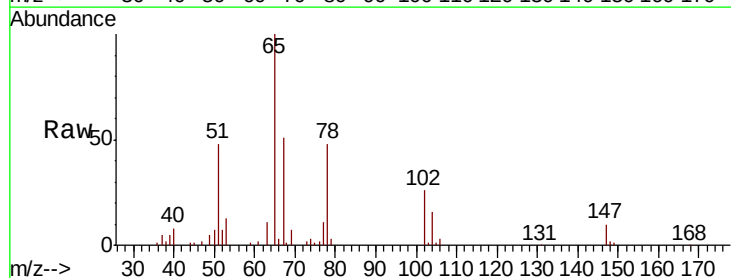
Acq: 26 Mar 2019 5:42

Tgt Ion: 78 Resp: 96152

Ion Ratio Lower Upper

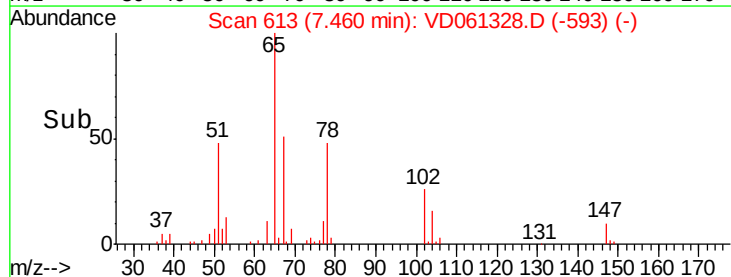
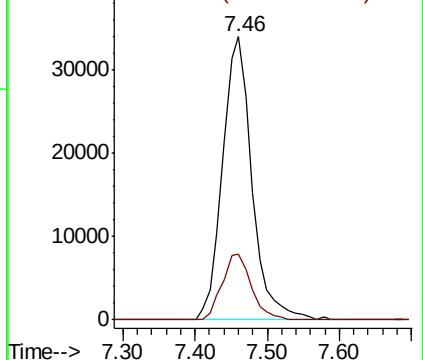
78 100

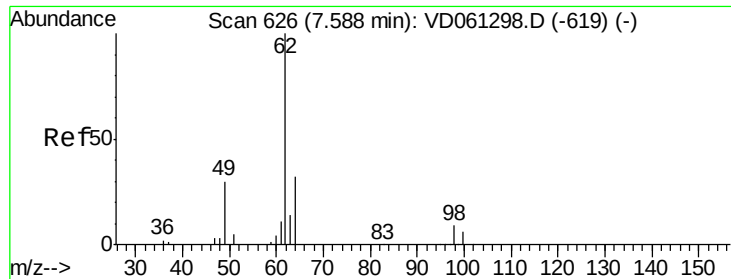
77 23.2 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V





#42

1,2-Dichloroethane

Concen: 1.997 ug/l

RT: 7.59 min Scan# 626

Delta R.T. 0.00 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

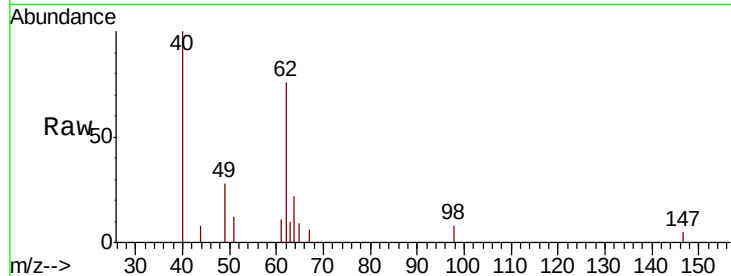
WP022SB432-190320-(26-28)

Tot Ion: 62 Resp: 12258

Ion Ratio Lower Upper

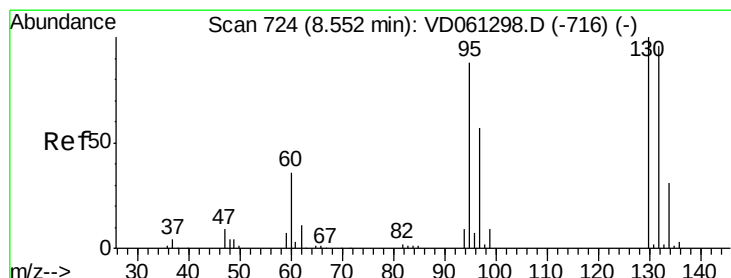
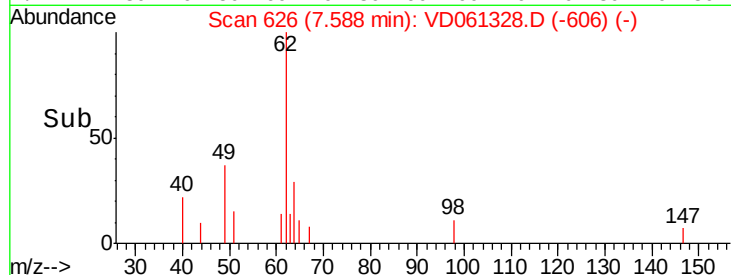
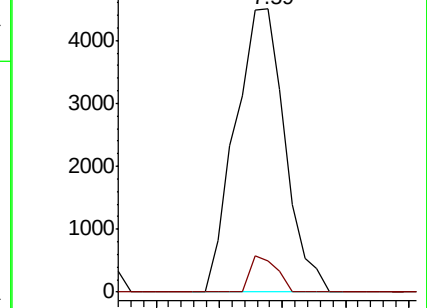
62 100

98 10.9 0.0 18.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#44

Trichloroethene

Concen: 79.489 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD061328.D

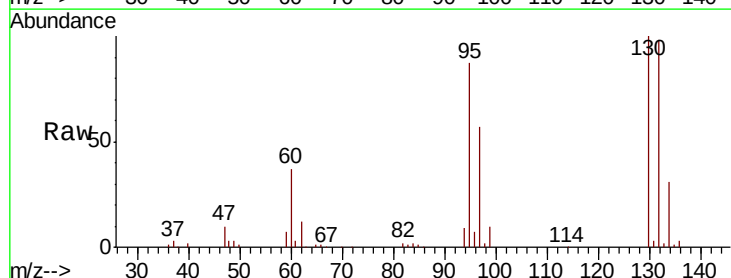
Acq: 26 Mar 2019 5:42

Tgt Ion:130 Resp: 566093

Ion Ratio Lower Upper

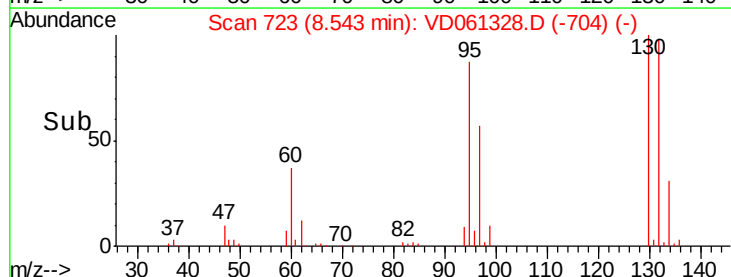
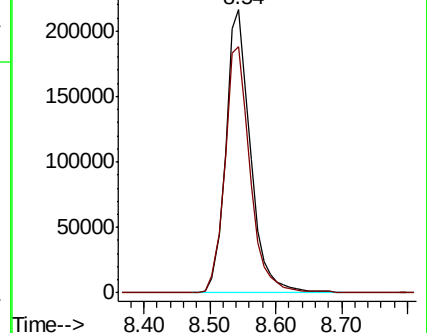
130 100

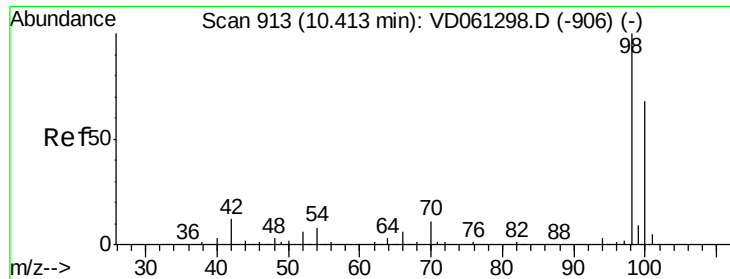
95 87.2 0.0 175.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

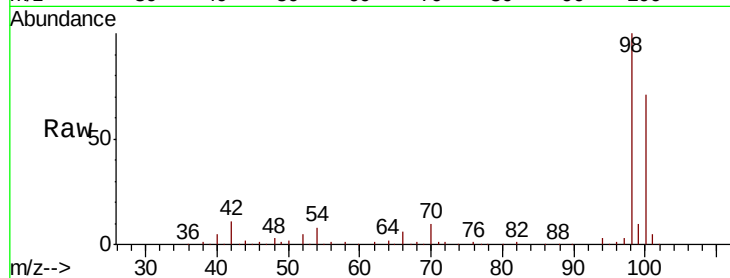




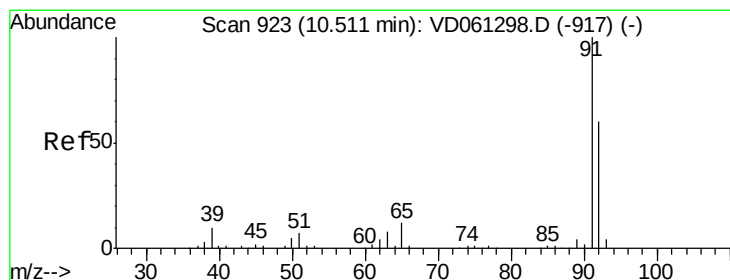
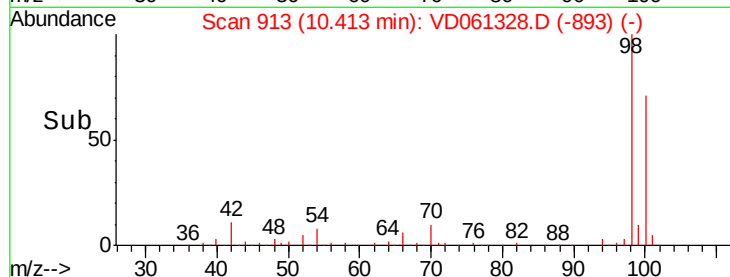
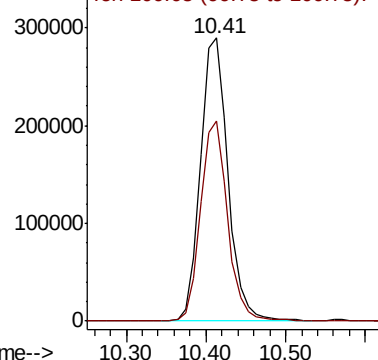
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(26-28)

Tot Ion: 98 Resp: 702836
Ion Ratio Lower Upper
98 100
100 70.6 55.4 83.0

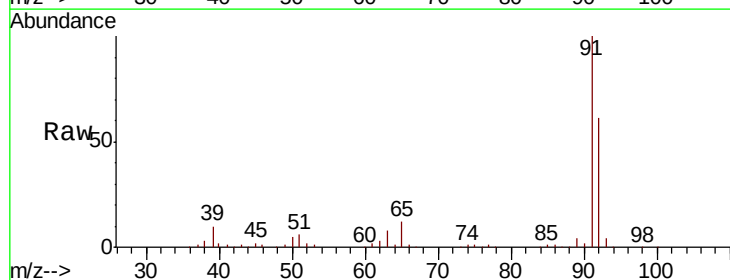


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

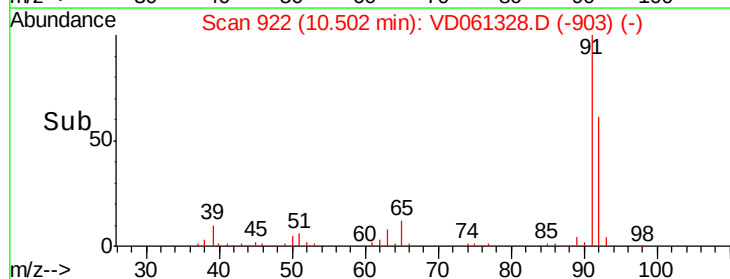
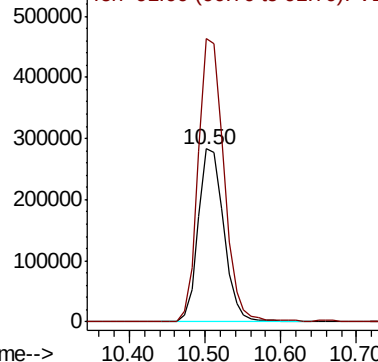


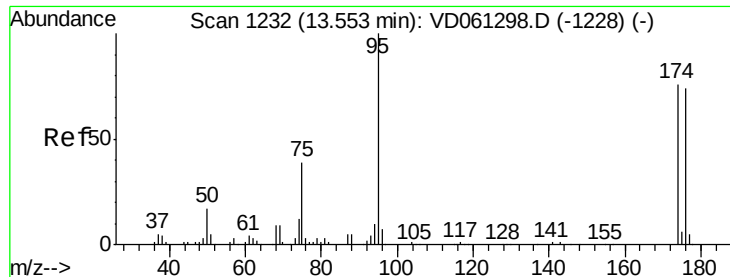
#52
Toluene
Concen: 54.817 ug/l
RT: 10.50 min Scan# 922
Delta R.T. -0.01 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Tgt Ion: 92 Resp: 660486
Ion Ratio Lower Upper
92 100
91 163.9 133.1 199.7



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

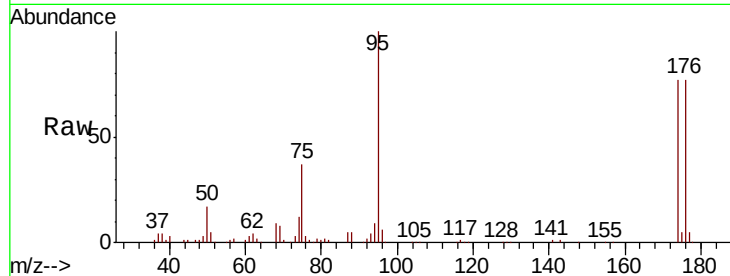




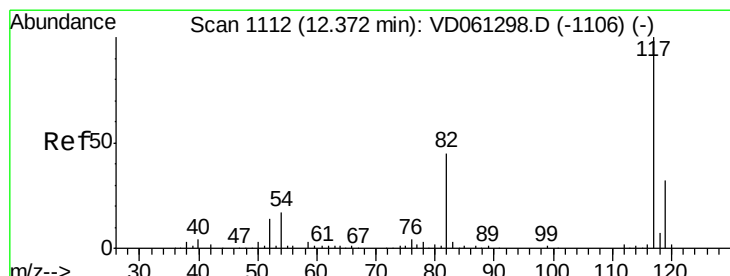
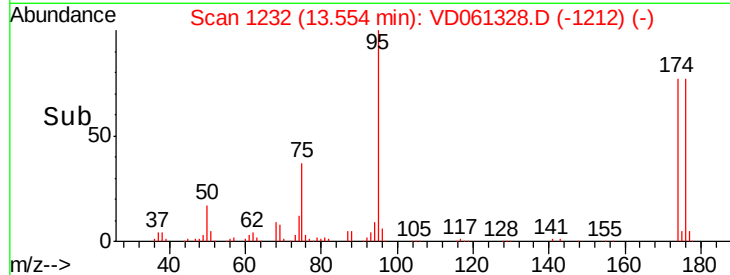
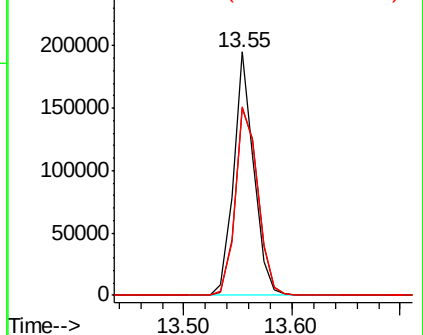
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(26-28)

Tot Ion: 95 Resp: 254288
Ion Ratio Lower Upper
95 100
174 76.9 0.0 151.8
176 77.4 0.0 148.0

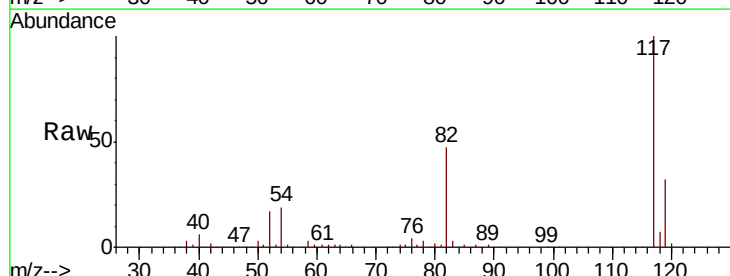


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

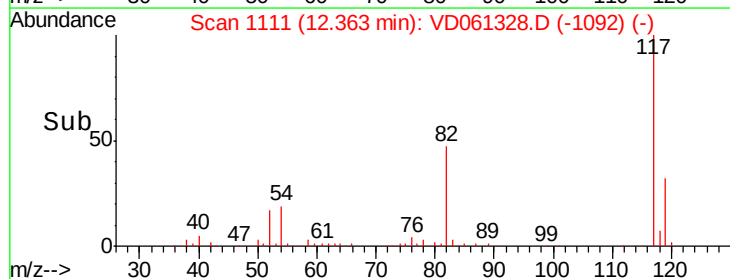
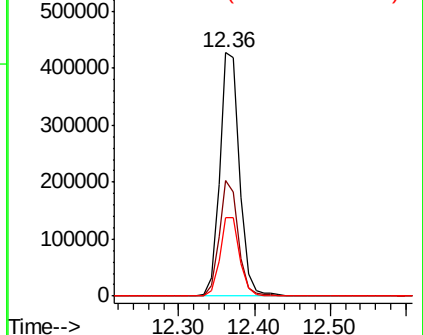


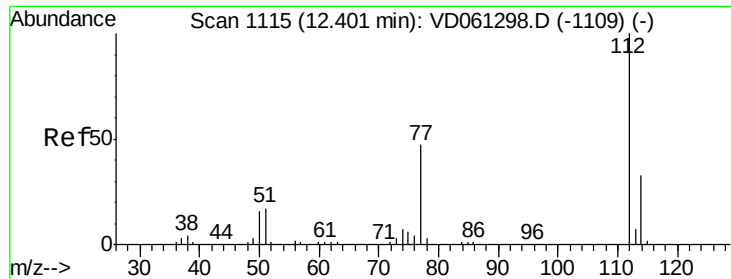
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Tgt Ion: 117 Resp: 777095
Ion Ratio Lower Upper
117 100
82 47.5 35.7 53.5
119 32.3 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

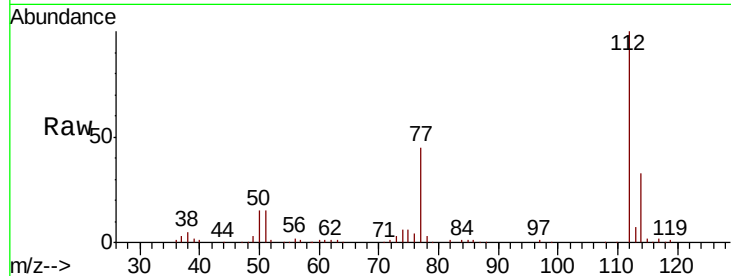




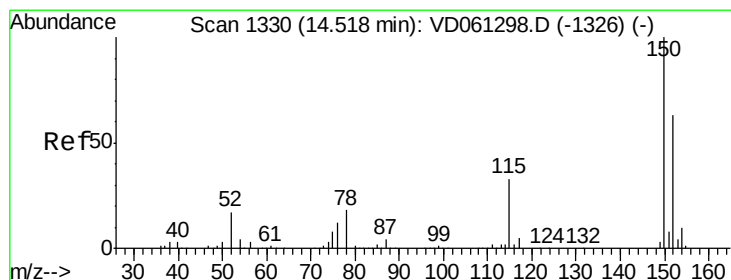
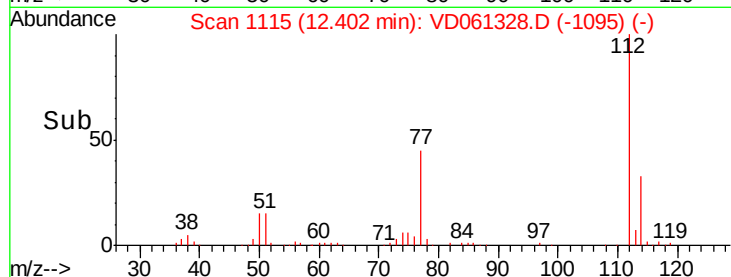
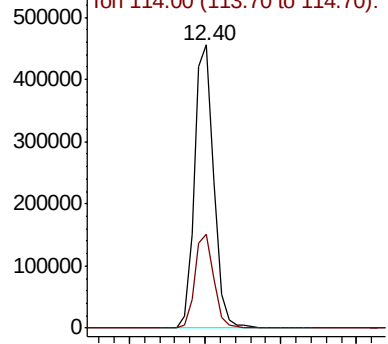
#65
Chlorobenzene
Concen: 56.406 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Instrument :
MSVOA_D
ClientSampleId :
WP022SB432-190320-(26-28)

Tot Ion:112 Resp: 807369
Ion Ratio Lower Upper
112 100
114 33.2 26.5 39.7

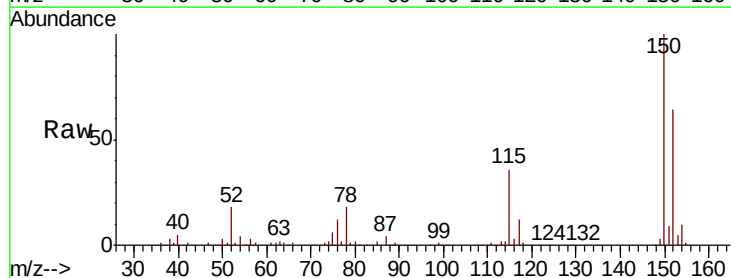


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

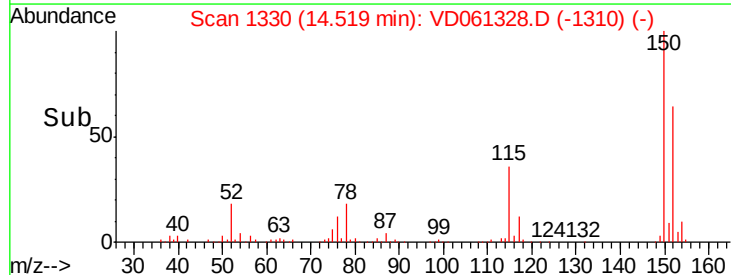
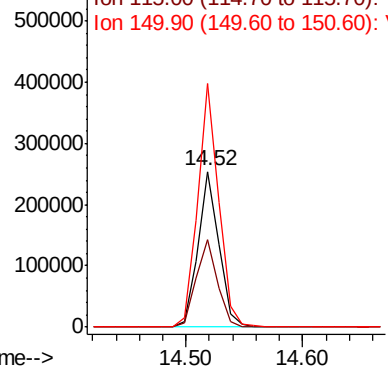


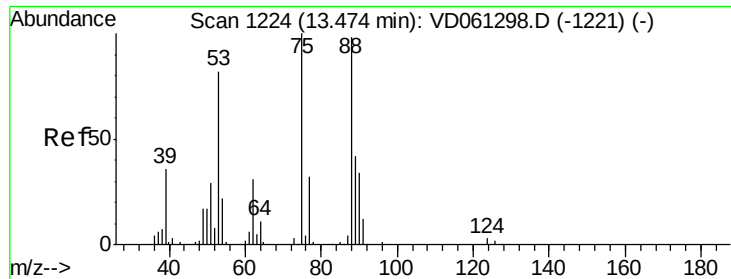
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061328.D
Acq: 26 Mar 2019 5:42

Tgt Ion:152 Resp: 313076
Ion Ratio Lower Upper
152 100
115 56.5 29.2 87.6
150 156.6 0.0 319.6



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





#81

trans-1,4-Dichloro-2-butene

Concen: 77.358 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061328.D

Acq: 26 Mar 2019 5:42

Instrument :

MSVOA_D

ClientSampleId :

WP022SB432-190320-(26-28)

Tot Ion: 75 Resp: 95053

Ion Ratio Lower Upper

75 100

53 0.0 65.3 97.9#

89 0.0 33.8 50.6#

