

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061324.D
 Acq On : 26 Mar 2019 3:50
 Operator : VA/AP
 Sample : K2047-13
 Misc : 5.97g/5ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB435-190318-(26-28)

Quant Time: Mar 26 07:09:43 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	7.04	168	529122	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	956596	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	622052	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	198339	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	192058	42.07	ug/l	-0.01
Spiked Amount			Recovery	=	84.14%	
35) Dibromofluoromethane	6.93	113	298944	40.84	ug/l	-0.01
Spiked Amount			Recovery	=	81.68%	
50) Toluene-d8	10.41	98	646461	36.42	ug/l	0.00
Spiked Amount			Recovery	=	72.84%	
62) 4-Bromofluorobenzene	13.55	95	202564	29.26	ug/l	0.00
Spiked Amount			Recovery	=	58.52%	

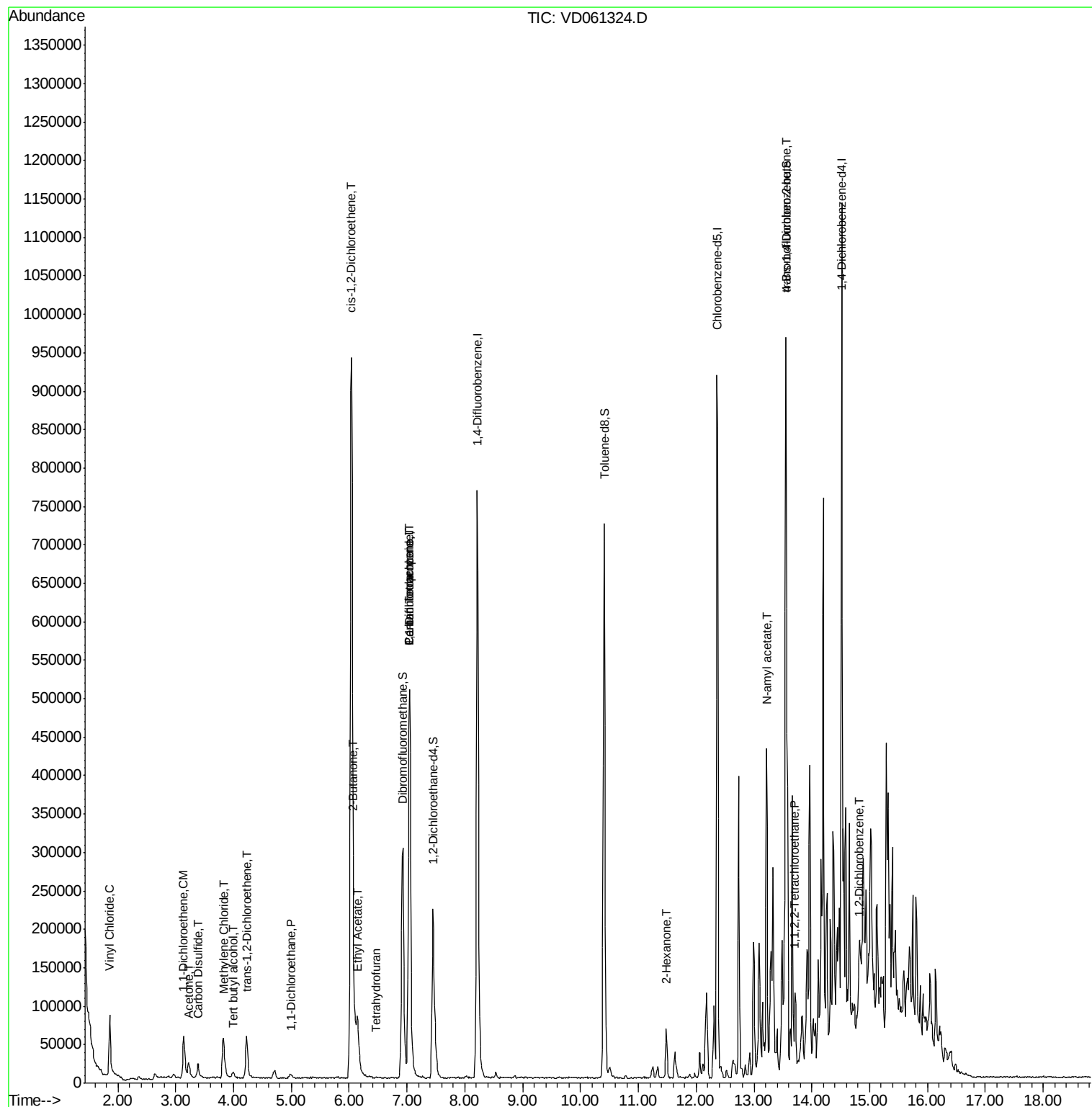
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.86	62	95419	24.182	ug/l	97
11) Tert butyl alcohol	3.98	59	8529	35.097	ug/l #	77
12) 1,1-Dichloroethene	3.15	96	32314	6.326	ug/l	97
16) Acetone	3.22	43	37955	34.759	ug/l	92
17) Carbon Disulfide	3.39	76	39449	2.325	ug/l	95
20) Methylene Chloride	3.82	84	39367	6.352	ug/l	96
21) trans-1,2-Dichloroethene	4.23	96	37690	6.595	ug/l	87
24) 1,1-Dichloroethane	5.01	63	10991	1.236	ug/l #	86
25) 2-Butanone	6.08	43	2963	2.346	ug/l #	61
27) cis-1,2-Dichloroethene	6.04	96	732240	119.067	ug/l	92
29) Tetrahydrofuran	6.46	42	987	1.570	ug/l #	31
36) 1,1-Dichloropropene	7.04	75	37113	4.742	ug/l #	44
37) Ethyl Acetate	6.15	43	3510	1.074	ug/l #	1
38) Carbon Tetrachloride	7.04	117	49190	5.499	ug/l #	16
59) 2-Hexanone	11.48	43	33265	16.323	ug/l #	28
74) N-amyl acetate	13.22	43	87038	25.788	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	13.71	83	4009	1.603	ug/l #	5
81) trans-1,4-Dichloro-2-buten	13.55	75	72759	93.469	ug/l #	20
91) 1,2-Dichlorobenzene	14.80	146	9778	1.919	ug/l #	80

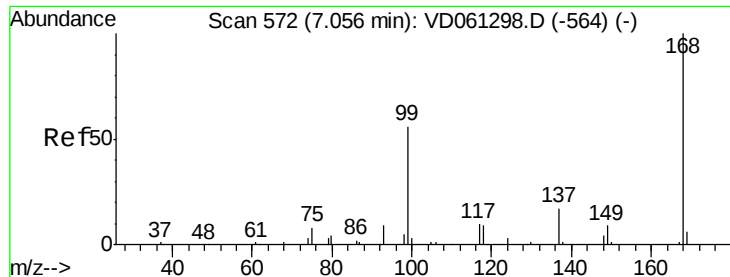
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

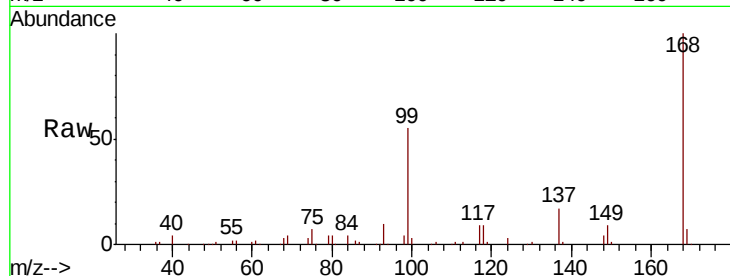
WP022SB435-190318-(26-28)

Tot Ion:168 Resp: 529122

Ion Ratio Lower Upper

168 100

99 55.1 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

200000

150000

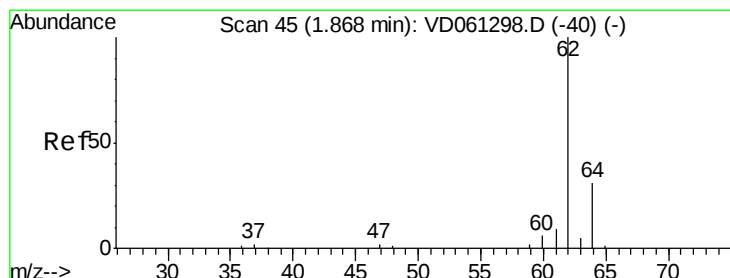
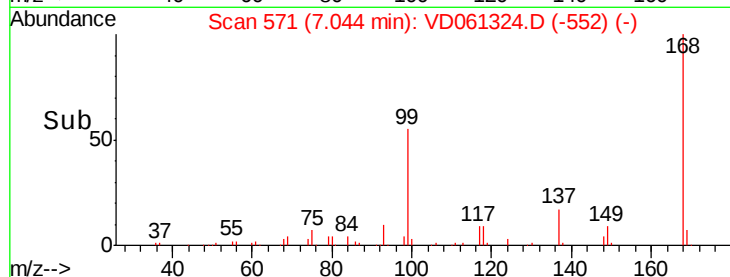
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#4

Vinyl Chloride

Concen: 24.182 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061324.D

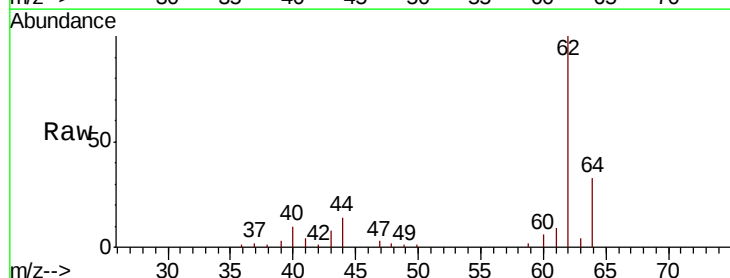
Acq: 26 Mar 2019 3:50

Tgt Ion: 62 Resp: 95419

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

1.86

50000

40000

30000

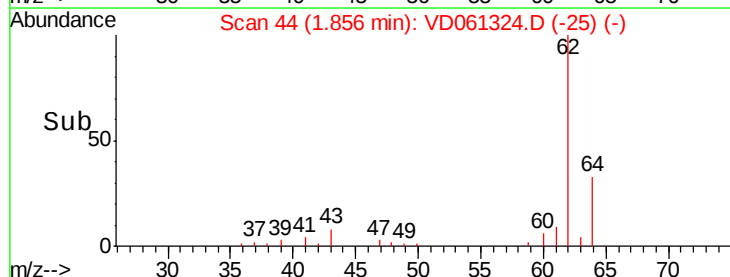
20000

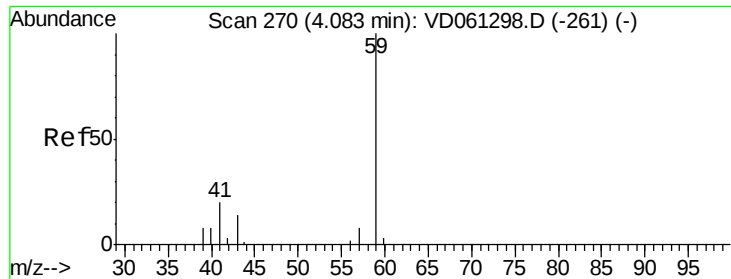
10000

0

1.80 1.90 2.00

Time-->





#11

Tert butyl alcohol

Concen: 35.097 ug/l

RT: 3.98 min Scan# 260

Delta R.T. -0.10 min

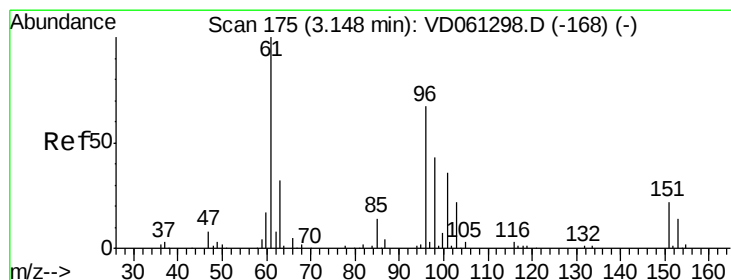
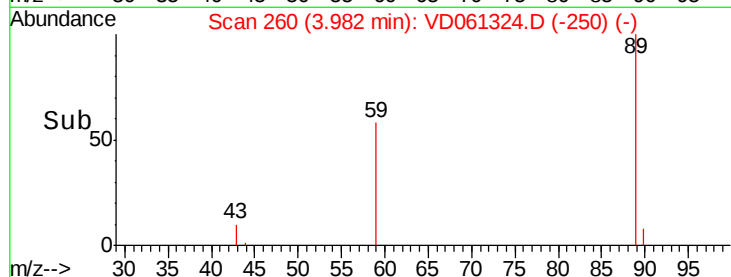
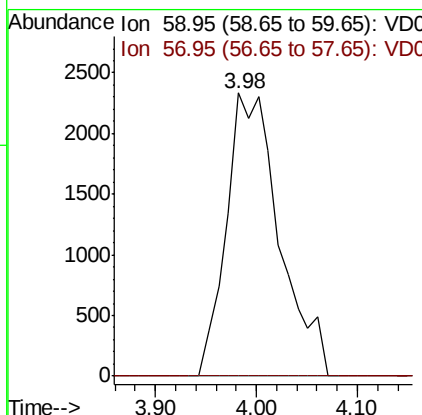
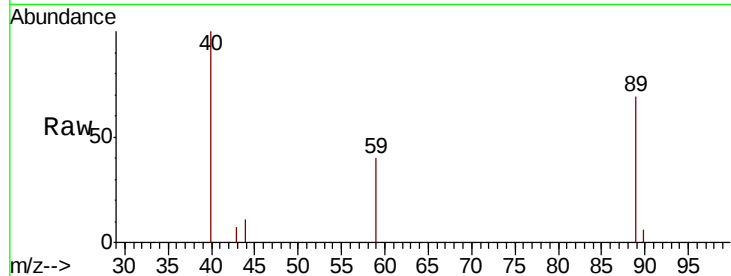
Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :
MSVOA_D
ClientSampleId :
WP022SB435-190318-(26-28)

Tot Ion: 59 Resp: 8529

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.6	9.8#



#12

1,1-Dichloroethene

Concen: 6.326 ug/l

RT: 3.15 min Scan# 175

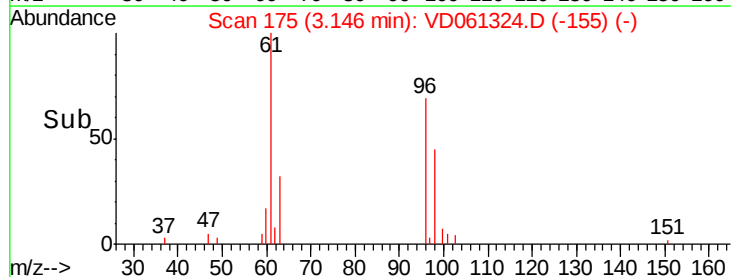
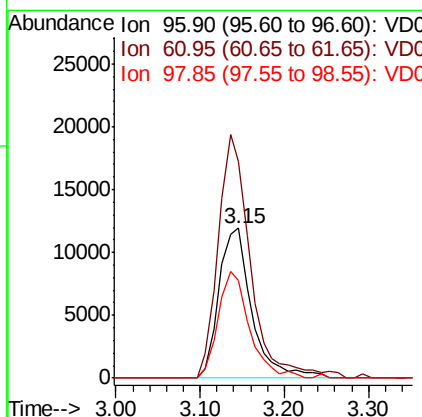
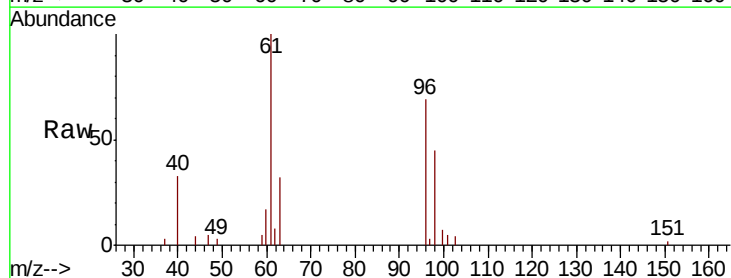
Delta R.T. -0.00 min

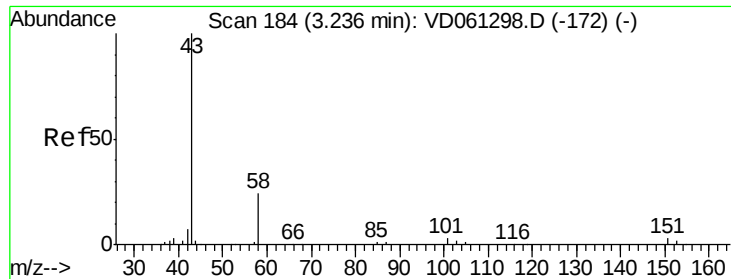
Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Tgt Ion: 96 Resp: 32314

Ion	Ratio	Lower	Upper
96	100		
61	144.8	120.2	180.2
98	65.1	52.2	78.4





#16

Acetone

Concen: 34.759 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

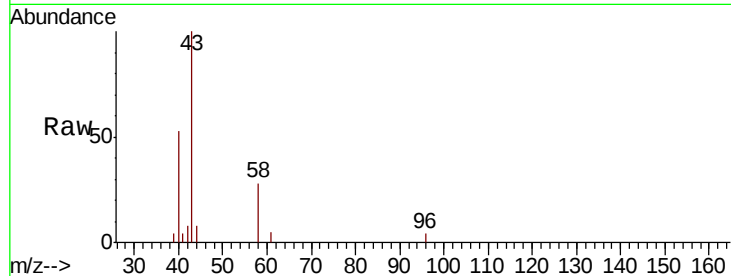
WP022SB435-190318-(26-28)

Tot Ion: 43 Resp: 37955

Ion Ratio Lower Upper

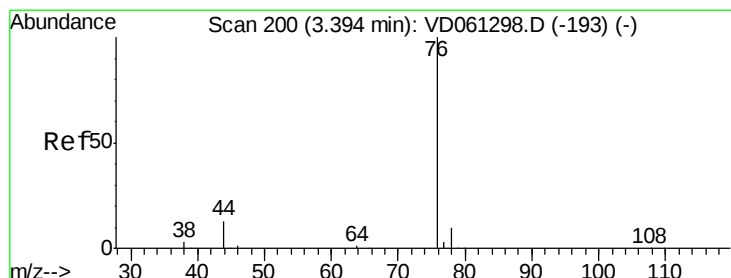
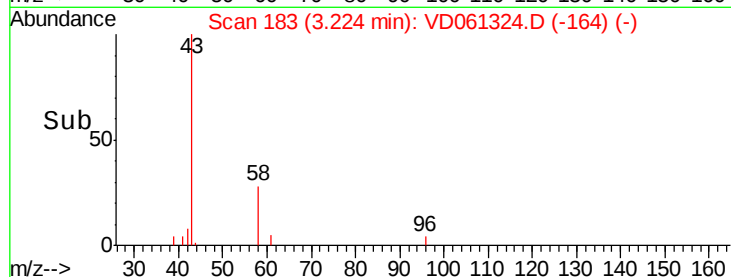
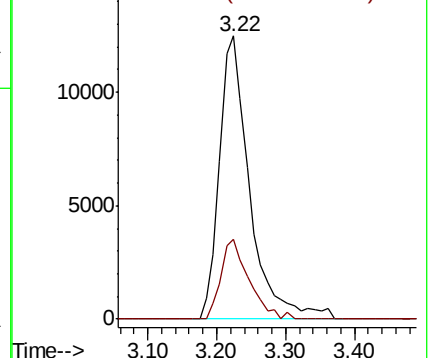
43 100

58 28.4 19.4 29.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 2.325 ug/l

RT: 3.39 min Scan# 200

Delta R.T. -0.00 min

Lab File: VD061324.D

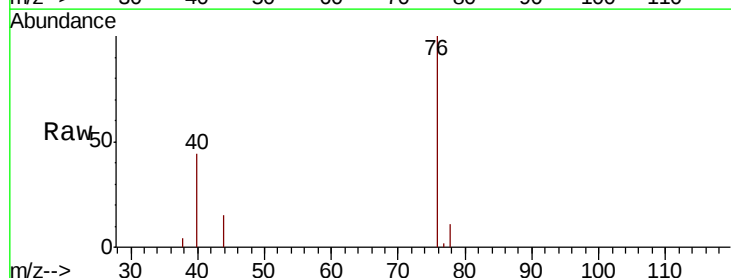
Acq: 26 Mar 2019 3:50

Tgt Ion: 76 Resp: 39449

Ion Ratio Lower Upper

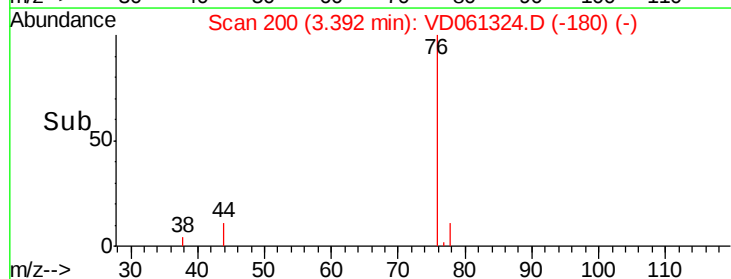
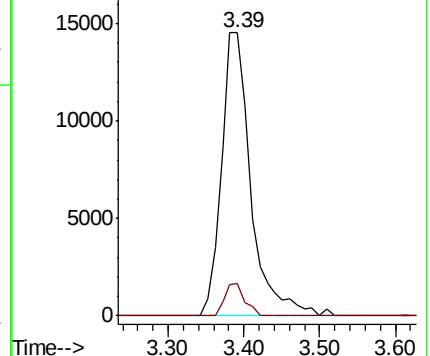
76 100

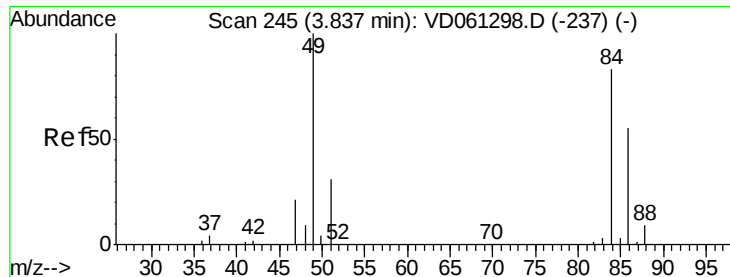
78 11.4 7.8 11.6



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

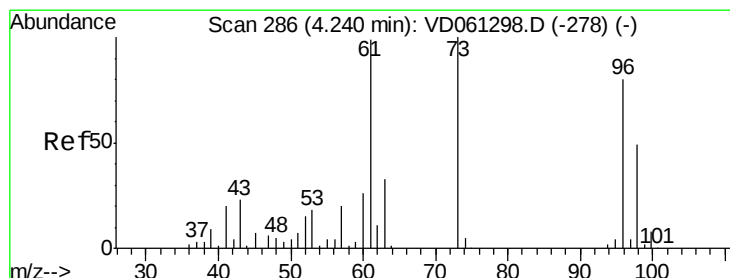
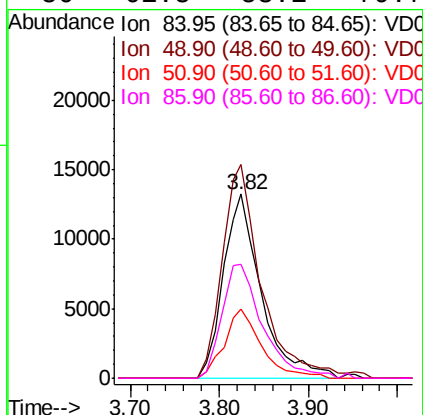
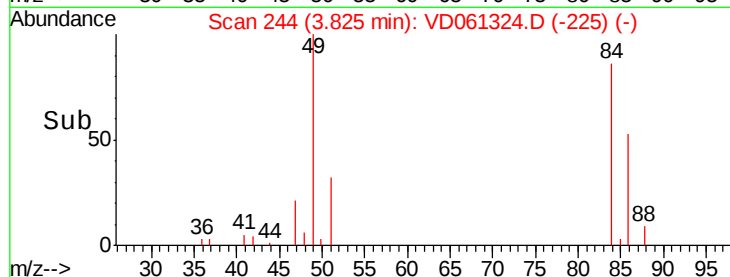
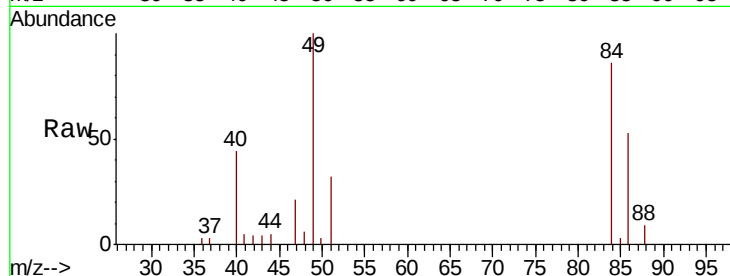




#20
Methylene Chloride
Concen: 6.352 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061324.D
Acq: 26 Mar 2019 3:50

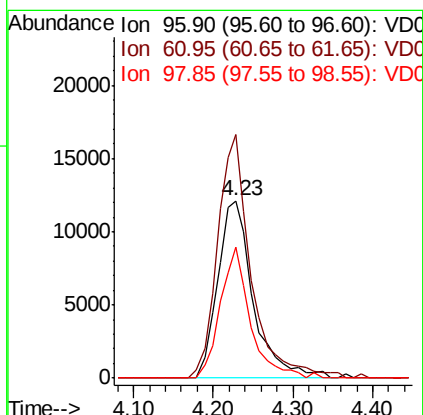
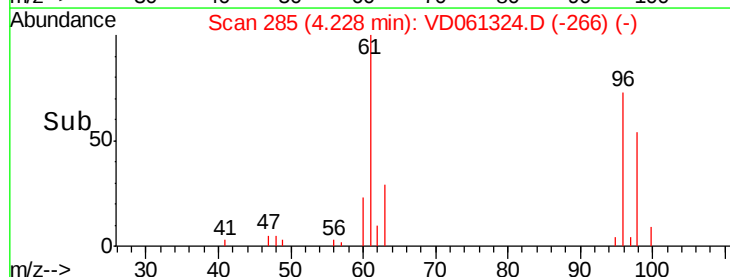
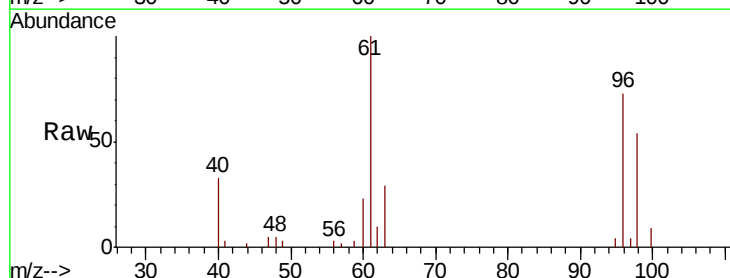
Instrument :
MSVOA_D
ClientSampleId :
WP022SB435-190318-(26-28)

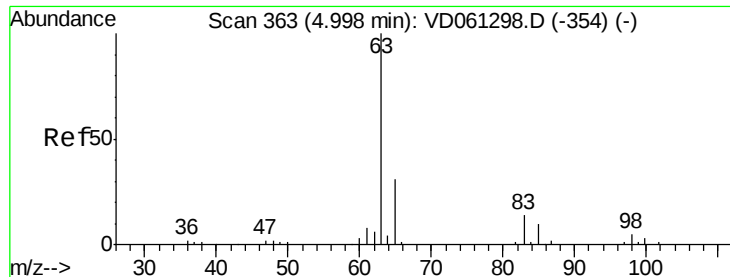
Tot Ion:	84	Resp:	39367
Ion	Ratio	Lower	Upper
84	100		
49	116.0	96.8	145.2
51	37.3	29.9	44.9
86	61.8	53.1	79.7



#21
trans-1,2-Dichloroethene
Concen: 6.595 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD061324.D
Acq: 26 Mar 2019 3:50

Tgt Ion:	96	Resp:	37690
Ion	Ratio	Lower	Upper
96	100		
61	137.1	99.2	148.8
98	73.5	49.2	73.8





#24

1,1-Dichloroethane

Concen: 1.236 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

WP022SB435-190318-(26-28)

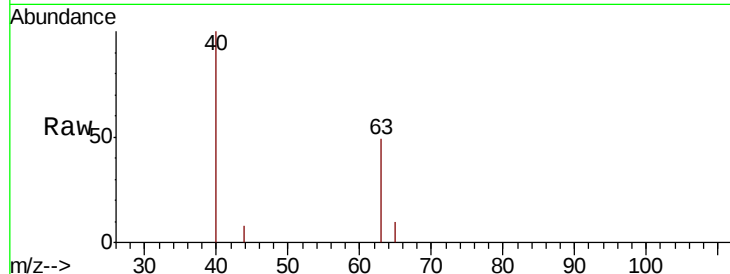
Tot Ion: 63 Resp: 10991

Ion Ratio Lower Upper

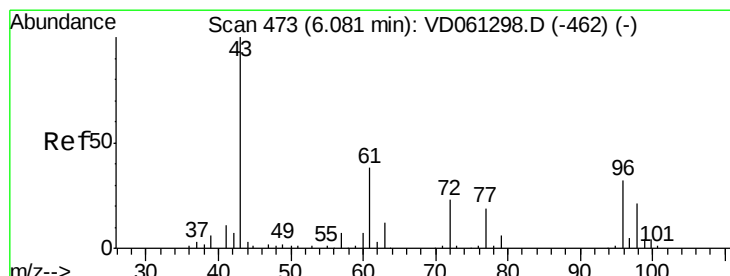
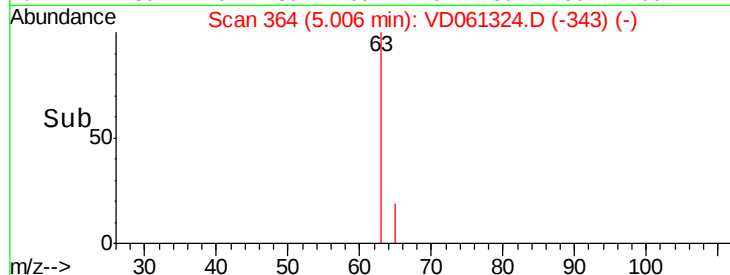
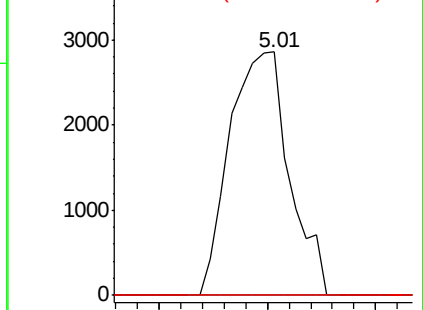
63 100

98 0.0 2.8 8.3#

100 0.0 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: 2.346 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.00 min

Lab File: VD061324.D

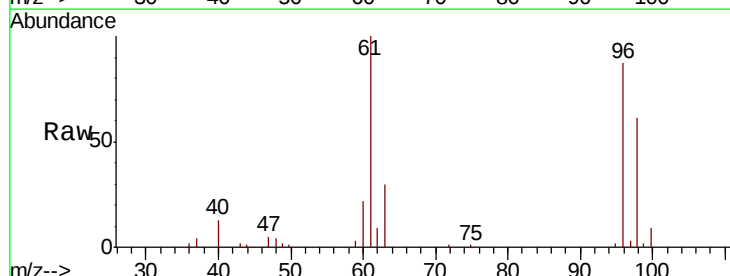
Acq: 26 Mar 2019 3:50

Tgt Ion: 43 Resp: 2963

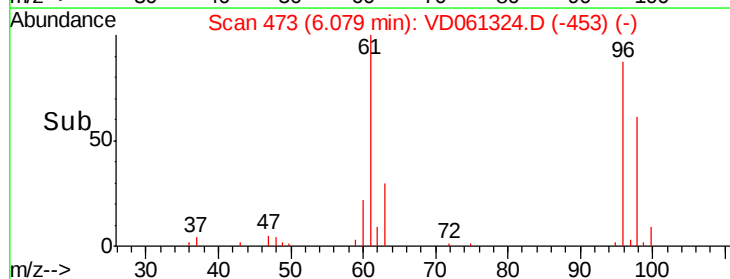
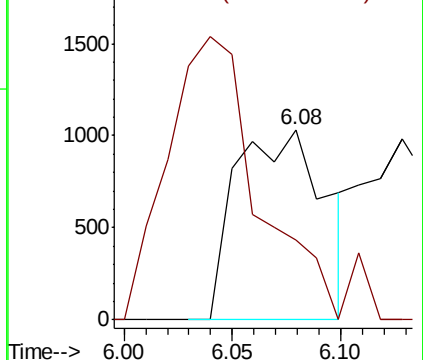
Ion Ratio Lower Upper

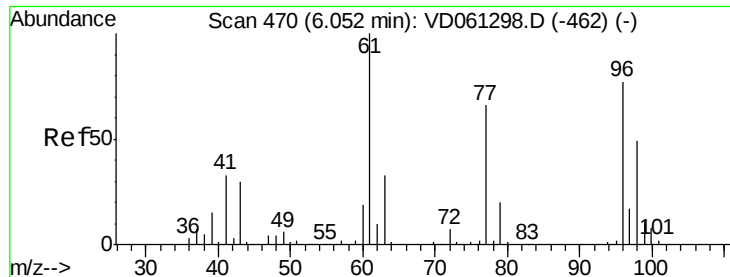
43 100

72 41.9 18.5 27.7#



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



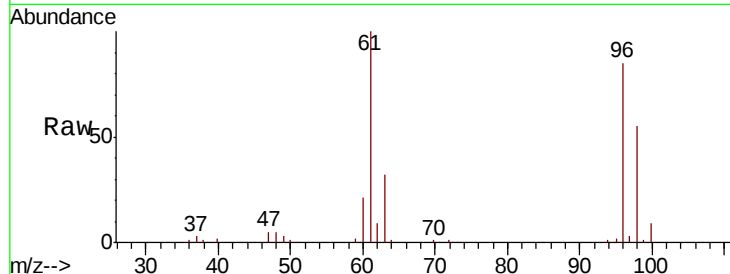


#27

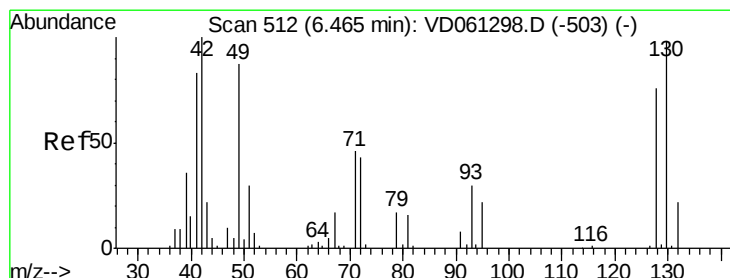
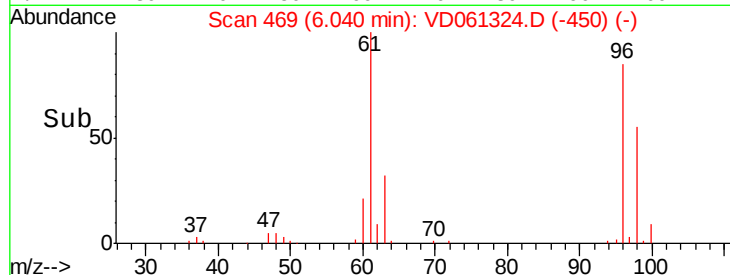
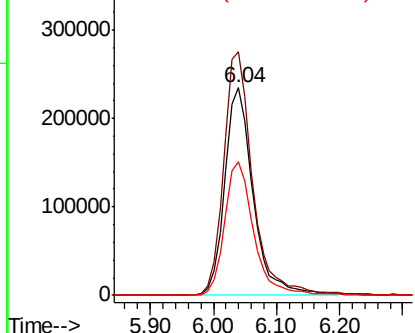
cis-1,2-Dichloroethene
Concen: 119.067 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.01 min
Lab File: VD061324.D
Acq: 26 Mar 2019 3:50

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WP022SB435-190318-(26-28)

Tot Ion	Ratio	Lower	Upper
96	100		
61	117.3	0.0	261.0
98	64.4	0.0	127.6



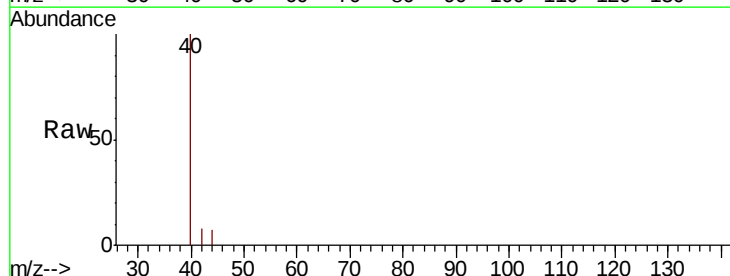
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



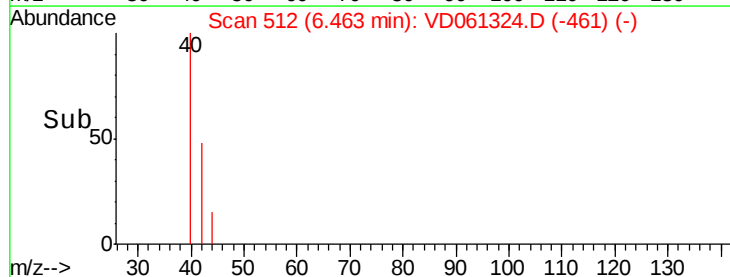
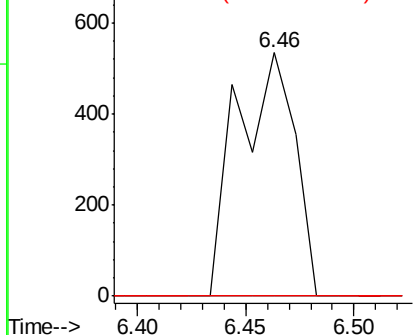
#29

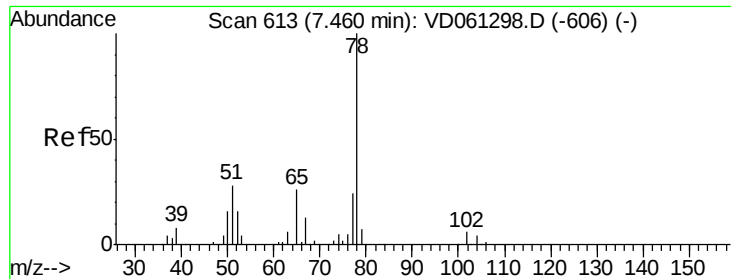
Tetrahydrofuran
Concen: 1.570 ug/l
RT: 6.46 min Scan# 512
Delta R.T. -0.00 min
Lab File: VD061324.D
Acq: 26 Mar 2019 3:50

Tgt 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





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

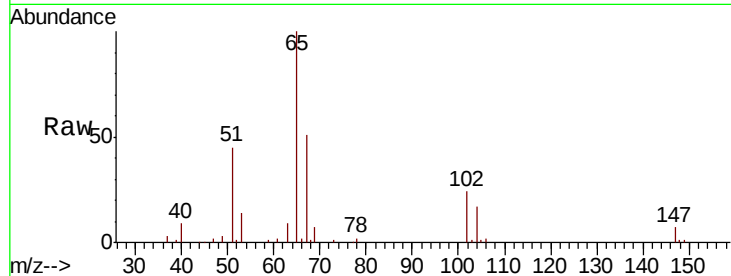
WP022SB435-190318-(26-28)

Tot Ion: 65 Resp: 192058

Ion Ratio Lower Upper

65 100

67 51.1 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

80000

60000

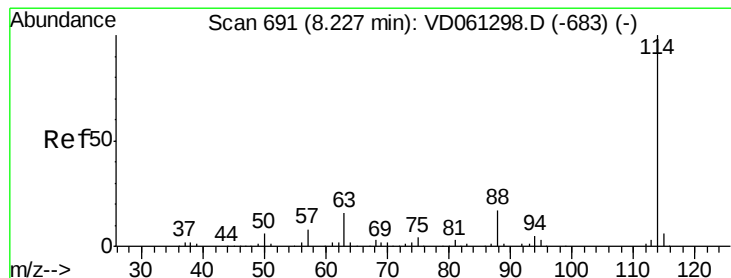
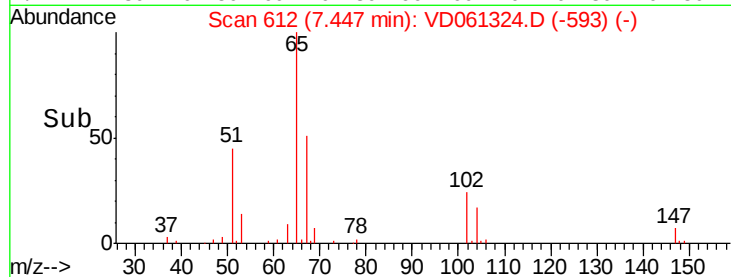
40000

20000

0

7.30 7.40 7.50 7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

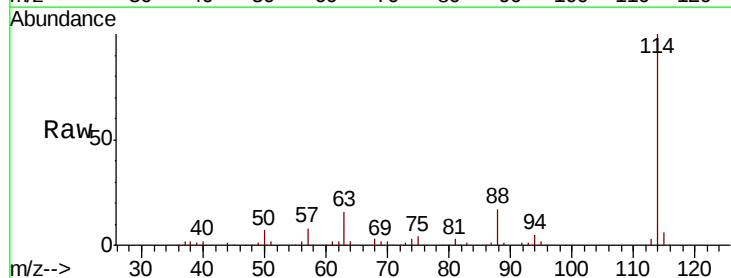
Tgt Ion: 114 Resp: 956596

Ion Ratio Lower Upper

114 100

63 15.6 0.0 31.4

88 16.9 0.0 33.2



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

500000

400000

300000

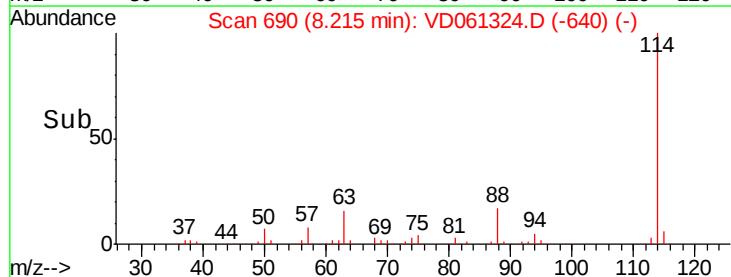
200000

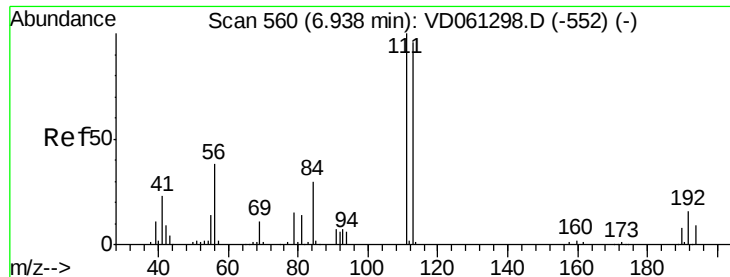
100000

0

8.00 8.20 8.40

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

WP022SB435-190318-(26-28)

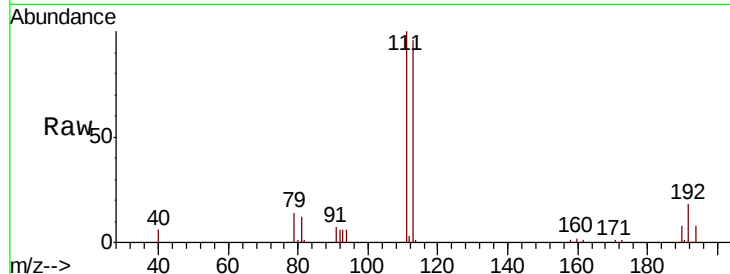
Tot Ion:113 Resp: 298944

Ion Ratio Lower Upper

113 100

111 104.4 83.7 125.5

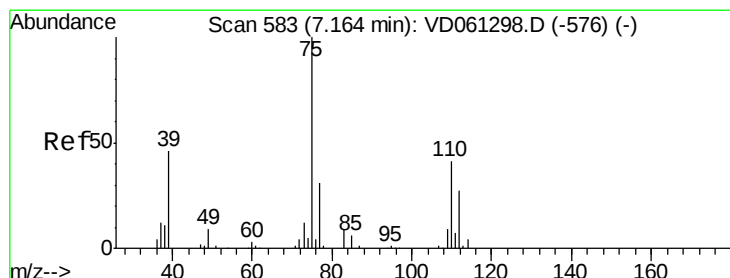
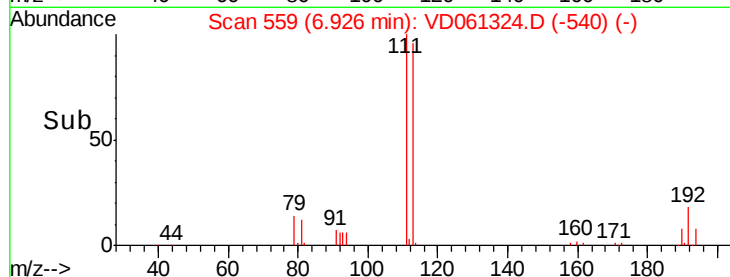
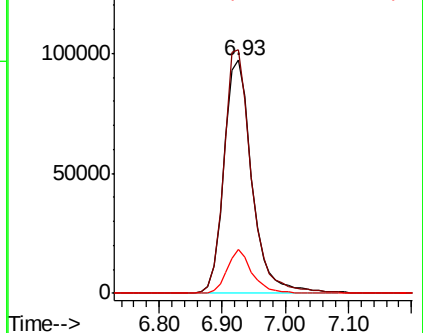
192 19.0 13.4 20.0



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: 4.742 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.12 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

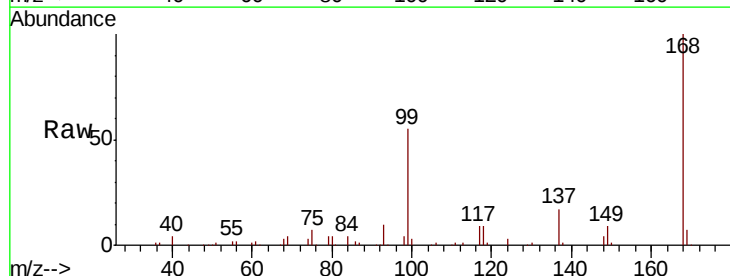
Tgt Ion: 75 Resp: 37113

Ion Ratio Lower Upper

75 100

110 5.5 20.1 60.2#

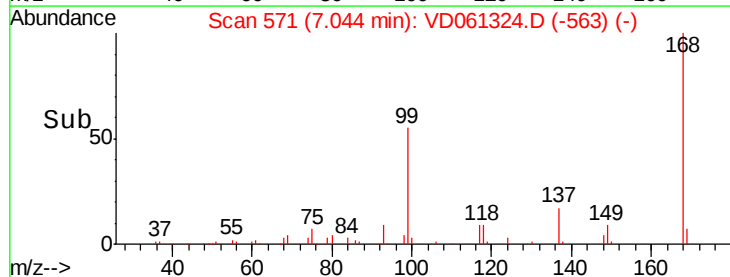
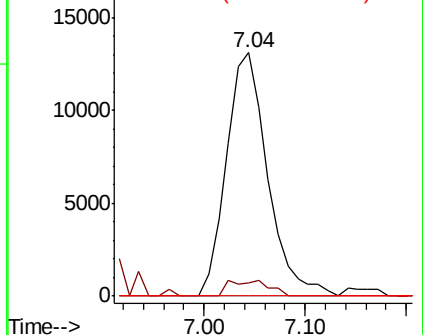
77 0.0 24.3 36.5#

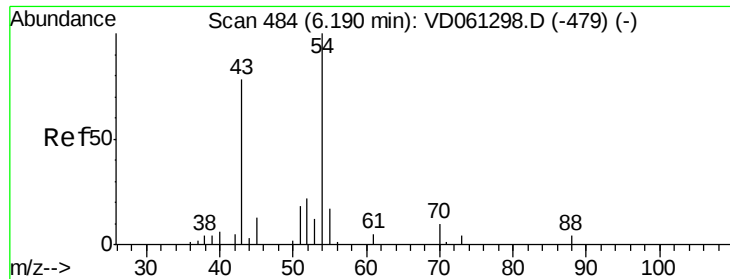


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.074 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.04 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

WP022SB435-190318-(26-28)

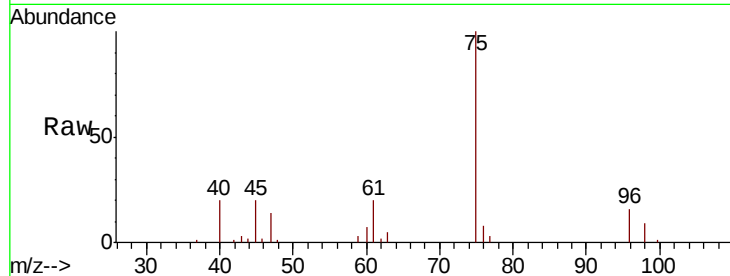
Tot Ion: 43 Resp: 3510

Ion Ratio Lower Upper

43 100

61 670.9 12.6 19.0#

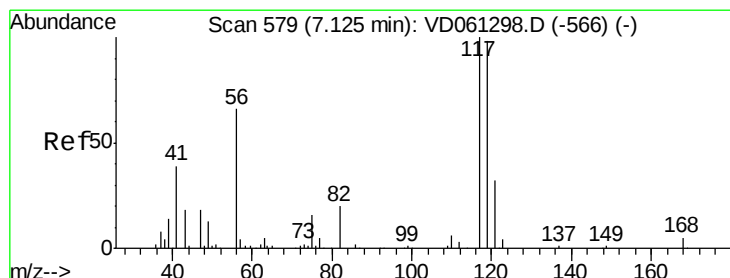
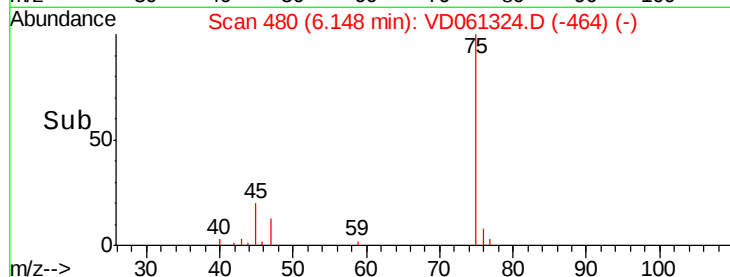
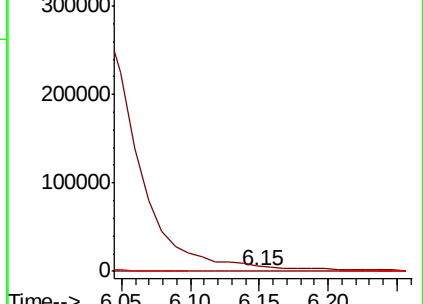
70 0.0 8.2 12.4#



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: 5.499 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

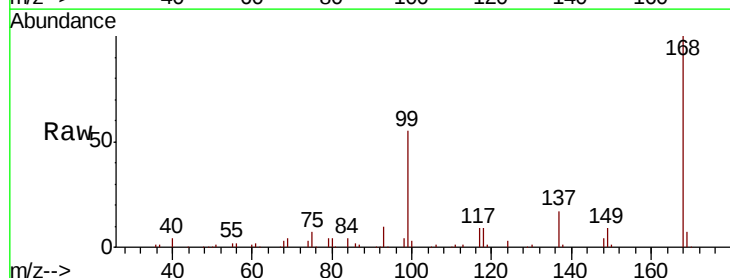
Tgt Ion: 117 Resp: 49190

Ion Ratio Lower Upper

117 100

119 6.0 78.4 117.6#

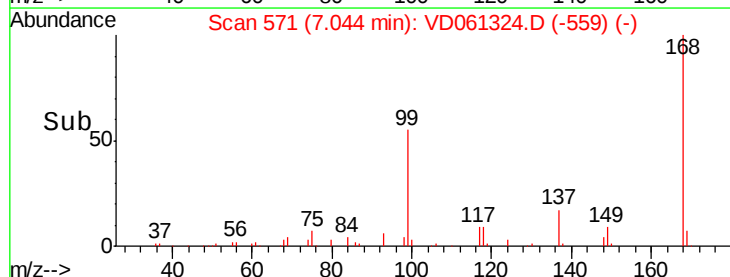
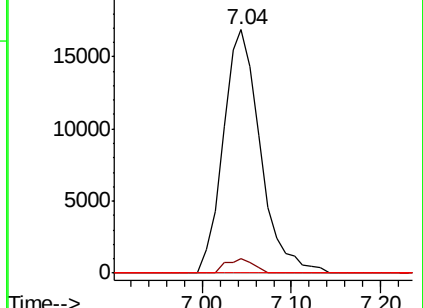
121 0.0 25.1 37.7#

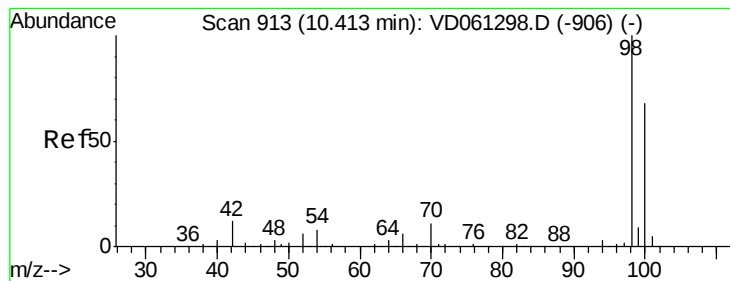


Abundance Ion 116.85 (116.55 to 117.55): V

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: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

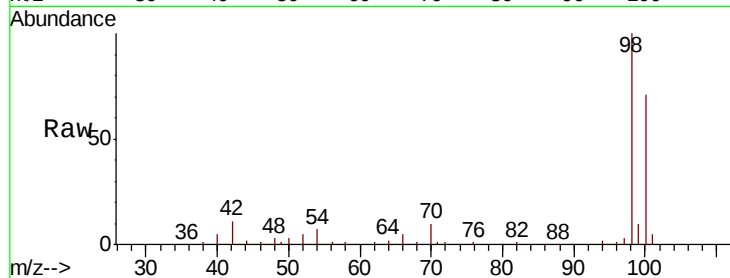
WP022SB435-190318-(26-28)

Tot Ion: 98 Resp: 646461

Ion Ratio Lower Upper

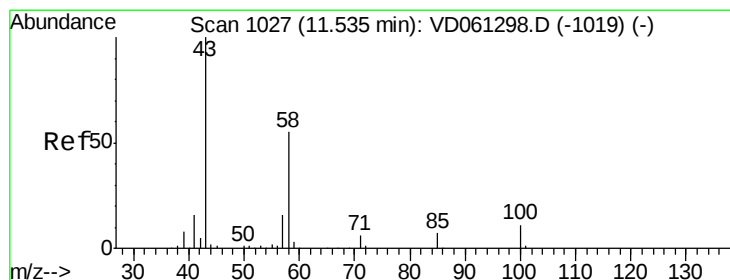
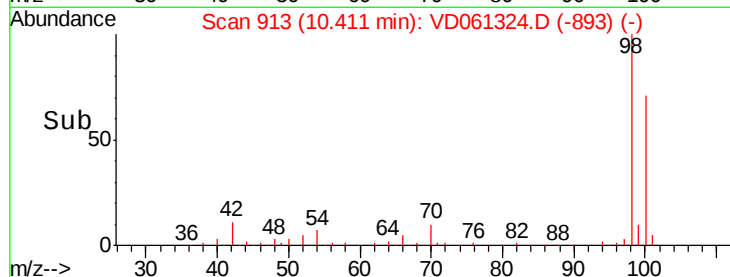
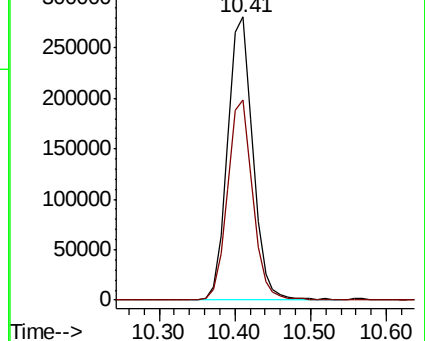
98 100

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



#59

2-Hexanone

Concen: 16.323 ug/l

RT: 11.48 min Scan# 1022

Delta R.T. -0.05 min

Lab File: VD061324.D

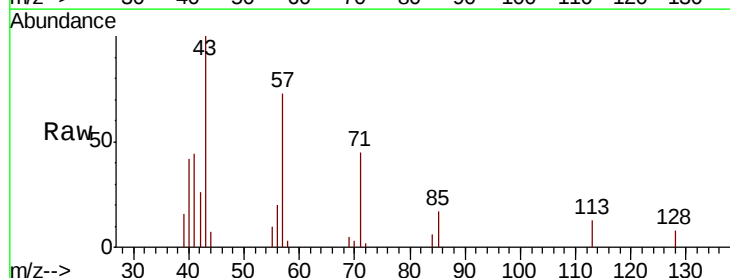
Acq: 26 Mar 2019 3:50

Tgt Ion: 43 Resp: 33265

Ion Ratio Lower Upper

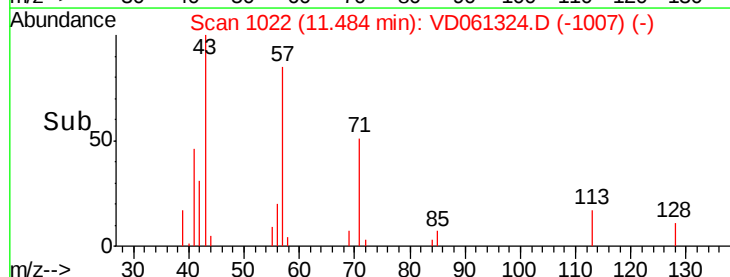
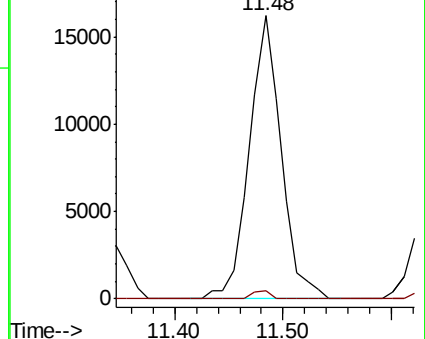
43 100

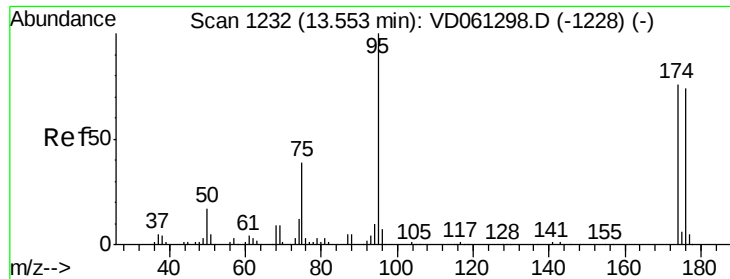
58 2.7 27.4 82.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

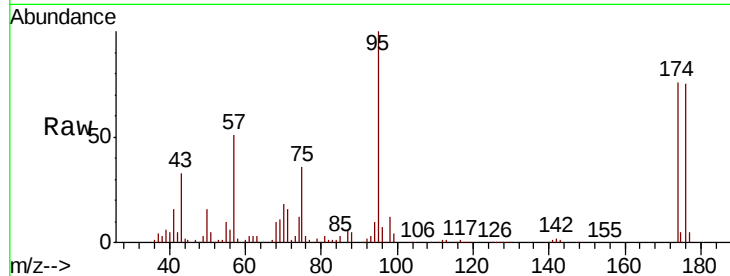




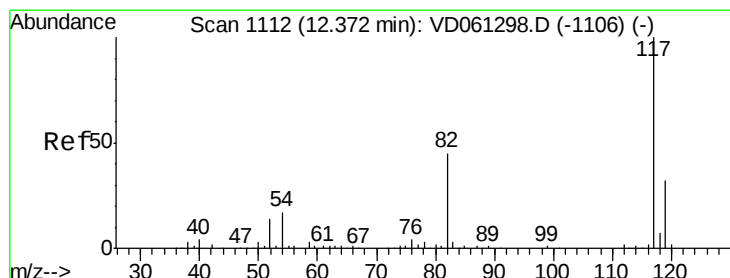
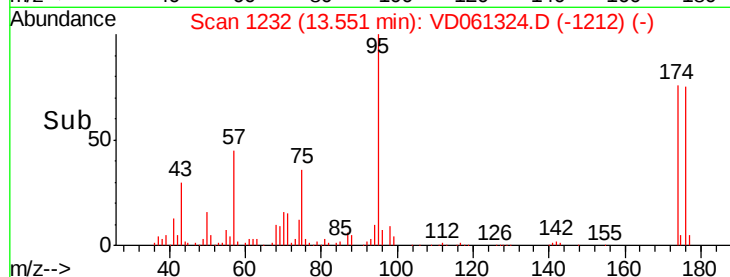
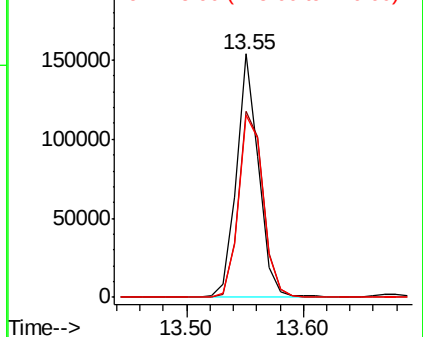
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD061324.D
Acq: 26 Mar 2019 3:50

Instrument :
MSVOA_D
ClientSampleId :
WP022SB435-190318-(26-28)

Tot Ion: 95 Resp: 202564
Ion Ratio Lower Upper
95 100
174 76.4 0.0 151.8
176 74.9 0.0 148.0

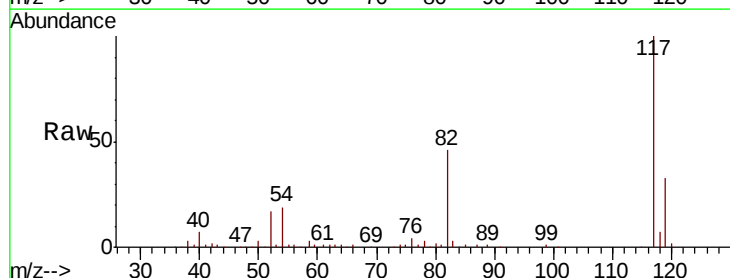


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

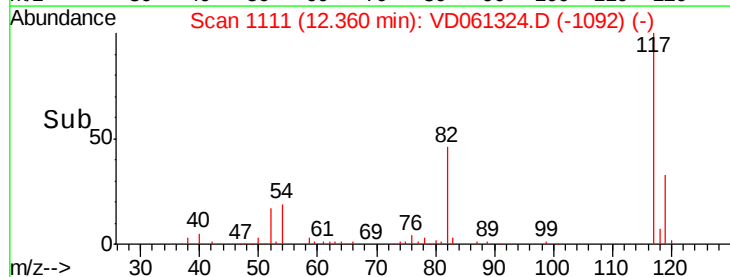
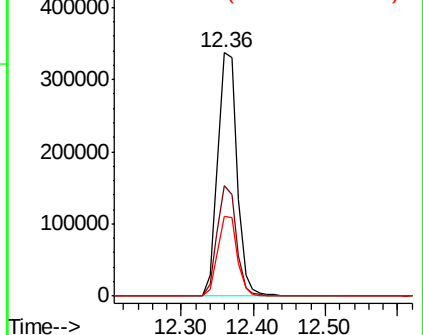


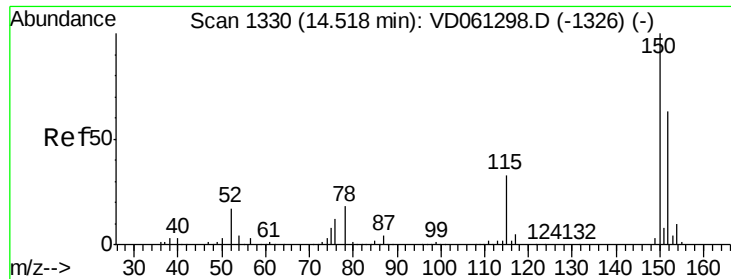
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD061324.D
Acq: 26 Mar 2019 3:50

Tgt Ion: 117 Resp: 622052
Ion Ratio Lower Upper
117 100
82 45.6 35.7 53.5
119 32.7 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

WP022SB435-190318-(26-28)

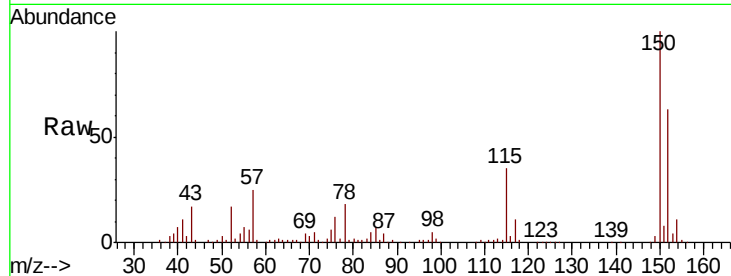
Tot Ion:152 Resp: 198339

Ion Ratio Lower Upper

152 100

115 55.3 29.2 87.6

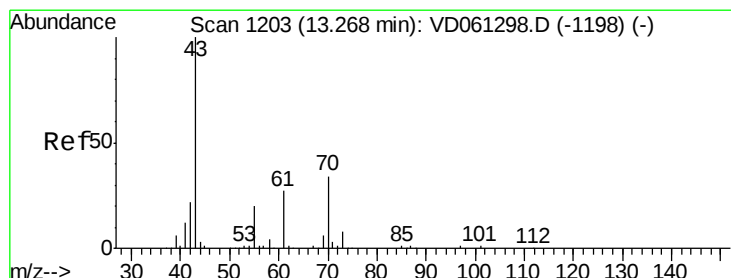
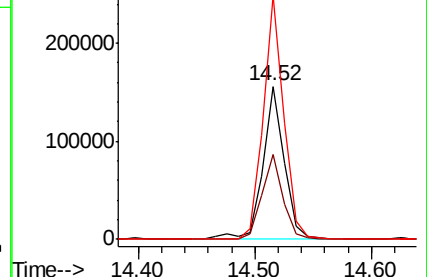
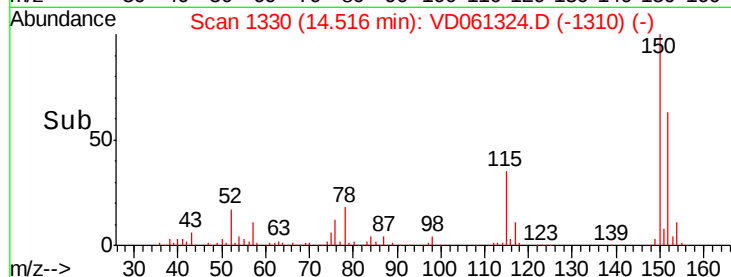
150 159.0 0.0 319.6



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



#74

N-ethyl acetate

Concen: 25.788 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.05 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Tgt Ion: 43 Resp: 87038

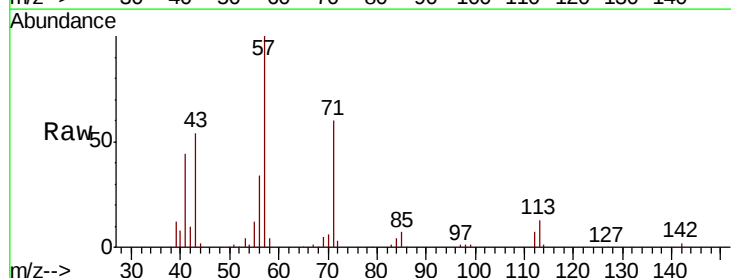
Ion Ratio Lower Upper

43 100

70 10.7 27.5 41.3#

55 22.8 15.7 23.5

61 0.0 21.8 32.6#

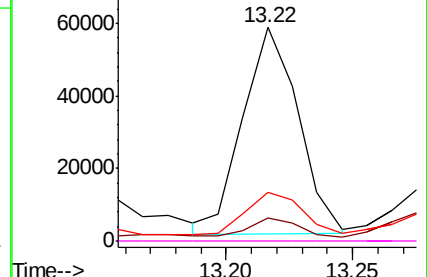
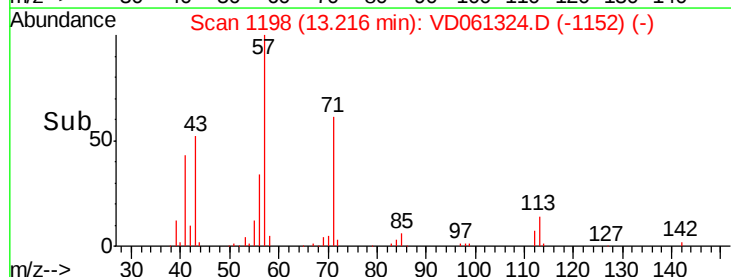


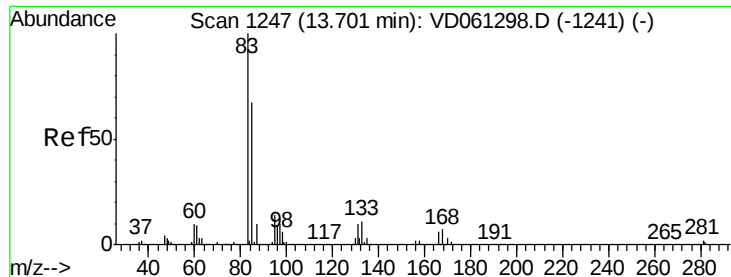
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.603 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

Instrument :

MSVOA_D

ClientSampleId :

WP022SB435-190318-(26-28)

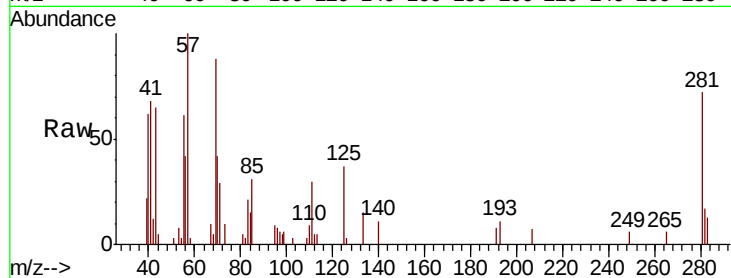
Tot Ion: 83 Resp: 4009

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

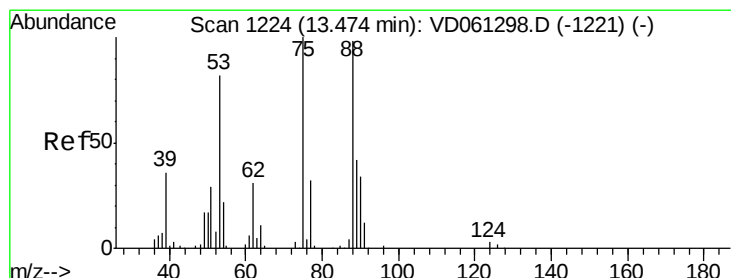
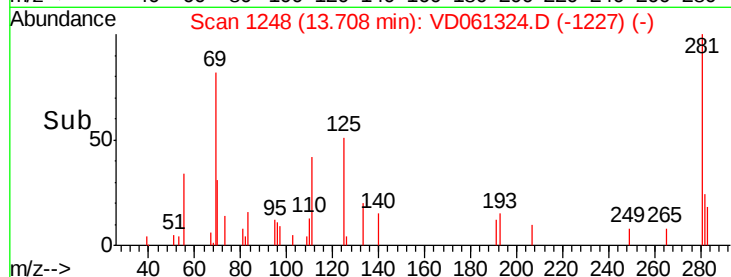
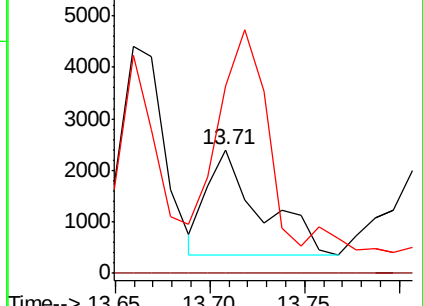
85 151.1 33.4 100.2#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 93.469 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061324.D

Acq: 26 Mar 2019 3:50

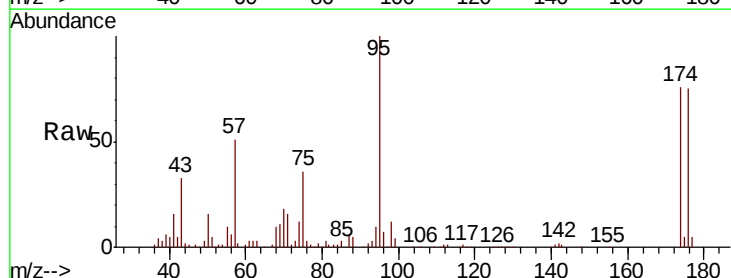
Tgt Ion: 75 Resp: 72759

Ion Ratio Lower Upper

75 100

53 3.6 65.3 97.9#

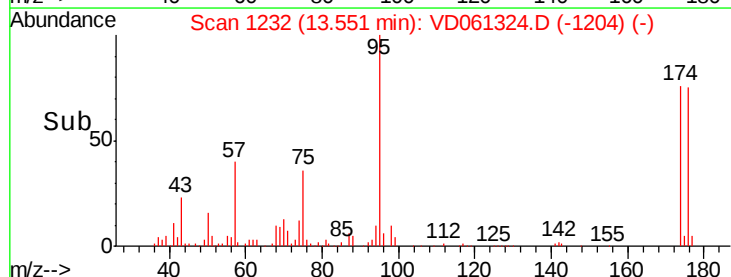
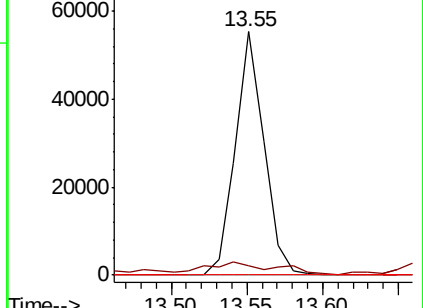
89 0.0 33.8 50.6#

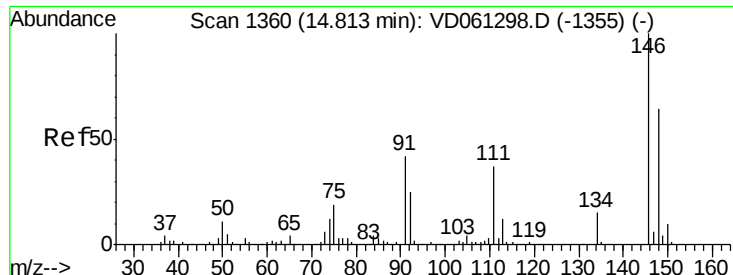


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

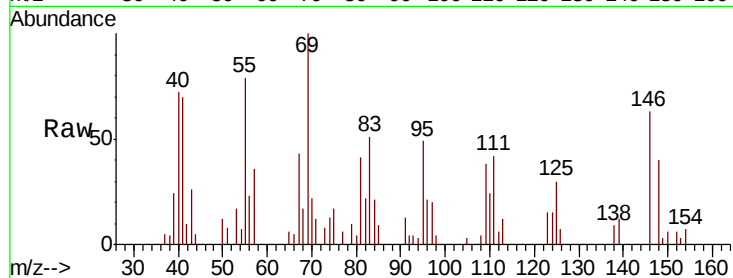




#91
 1,2-Dichlorobenzene
 Concen: 1.919 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD061324.D
 Acq: 26 Mar 2019 3:50

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB435-190318-(26-28)

Tot Ion:146 Resp: 9778
 Ion Ratio Lower Upper
 146 100
 111 67.1 18.3 54.8#
 148 62.7 31.9 95.7



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

