

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058350.D
 Acq On : 23 Jun 2018 19:35
 Operator : VA/AP
 Sample : J3671-01
 Misc : 6.01µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB477-31-33-180621

Manual Integrations
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Quant Time: Jun 25 08:27:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	789903	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1059977	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	857183	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.91	152	414418	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	334577	41.93	ug/l	0.03
Spiked Amount	50.000		Recovery	=	83.86%	
35) Dibromofluoromethane	5.56	113	338086	39.19	ug/l	0.02
Spiked Amount	50.000		Recovery	=	78.38%	
50) Toluene-d8	8.72	98	797753	38.22	ug/l	0.02
Spiked Amount	50.000		Recovery	=	76.44%	
62) 4-Bromofluorobenzene	11.93	95	321209	37.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.34%	

Target Compounds

						Qvalue
4) Vinyl Chloride	1.57	62	331229	80.05	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.57	101	8783	2.44	ug/l #	63
12) 1,1-Dichloroethene	2.57	96	616817	227.29	ug/l	92
16) Acetone	2.63	43	49466	45.33	ug/l	93
20) Methylene Chloride	3.09	84	25843	4.76	ug/l	84
21) trans-1,2-Dichloroethene	3.41	96	117490	39.61	ug/l	92
27) cis-1,2-Dichloroethene	4.83	96	24153719m	3258.94	ug/l	
30) Chloroform	5.35	83	49703	3.48	ug/l	96
39) Methylcyclohexane	7.31	83	17407	1.70	ug/l #	58
40) Benzene	6.04	78	74581	2.99	ug/l	95
44) Trichloroethene	7.05	130	15636898m	2084.77	ug/l	
52) Toluene	8.81	92	70118	4.93	ug/l	99
55) 1,1,2-Trichloroethane	9.46	97	22143	4.40	ug/l	88
64) Tetrachloroethene	9.52	164	102608	14.23	ug/l	99
65) Chlorobenzene	10.73	112	1187741	74.08	ug/l	98
87) 1,3-Dichlorobenzene	12.85	146	151007	11.70	ug/l	99
88) 1,4-Dichlorobenzene	12.93	146	867304	68.84	ug/l	95
91) 1,2-Dichlorobenzene	13.20	146	1854437	168.91	ug/l	100
93) 1,2,4-Trichlorobenzene	14.35	180	10681	1.02	ug/l	98
95) Naphthalene	14.52	128	18076	1.31	ug/l #	94

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

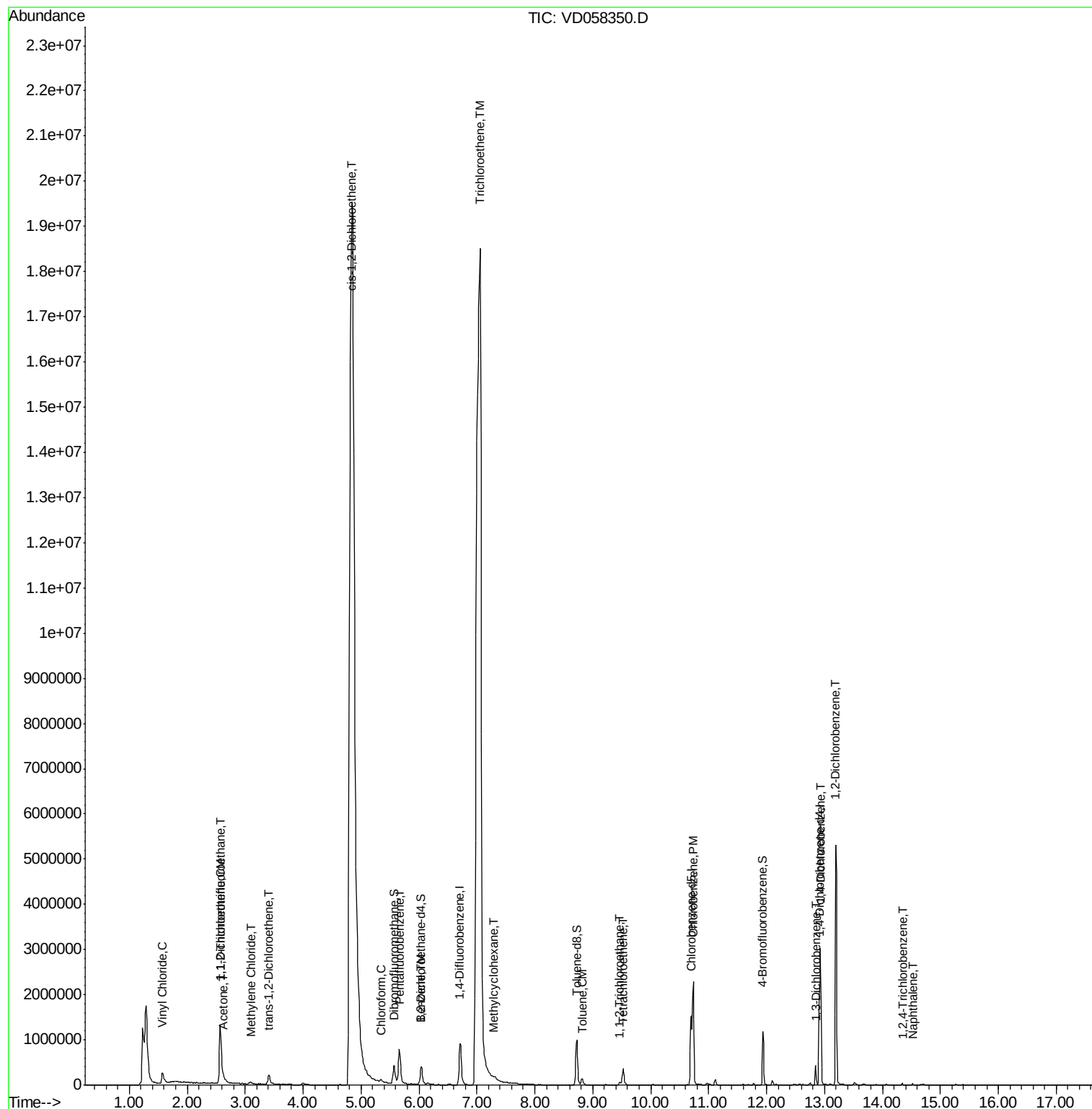
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062318\
Data File : VD058350.D
Acq On : 23 Jun 2018 19:35
Operator : VA/AP
Sample : J3671-01
Misc : 6.01a/5ml/MSVOA D/SOIL
ALS Vial : 13 Sample Multiplier: 1

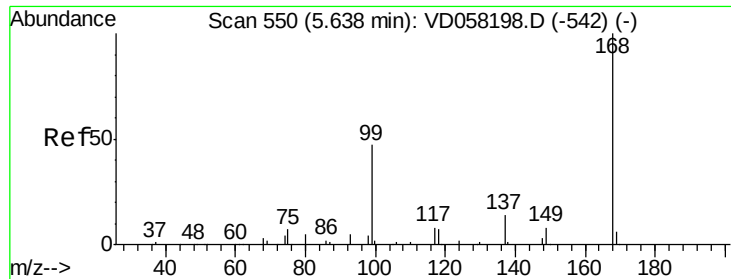
Instrument :
MSVOA_D
ClientSampleId :
WP021SB477-31-33-180621

Manual Integrations
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Quant Time: Jun 25 08:27:07 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.03 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

Tot Ion:168 Resp: 789903

Ion Ratio Lower Upper

168 100

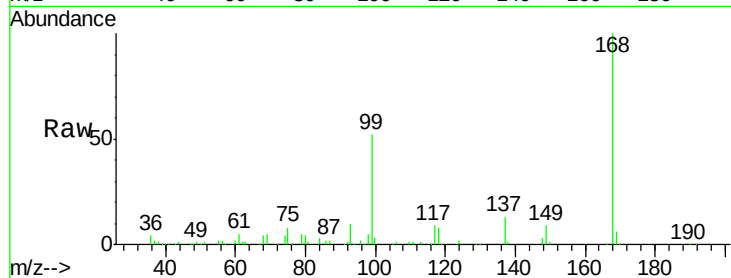
99 52.2 41.1 61.7

Manual Integrations

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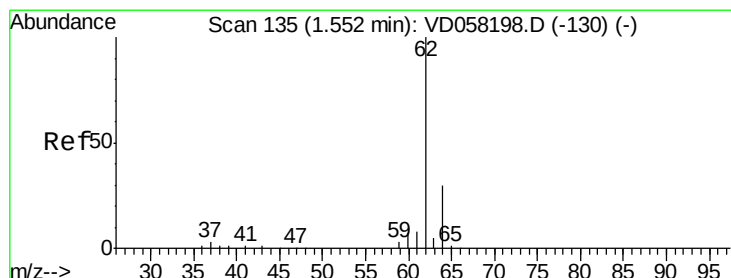
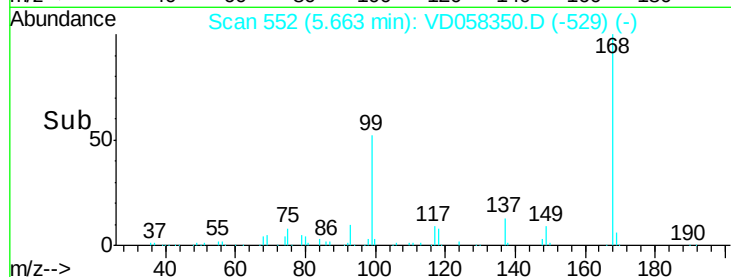
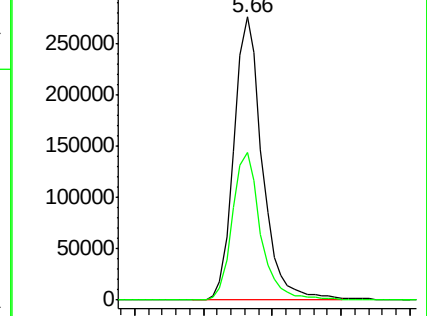
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 80.05 ug/l

RT: 1.57 min Scan# 136

Delta R.T. 0.02 min

Lab File: VD058350.D

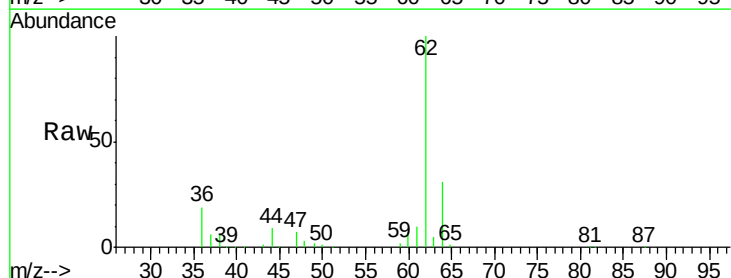
Acq: 23 Jun 2018 19:35

Tgt Ion: 62 Resp: 331229

Ion Ratio Lower Upper

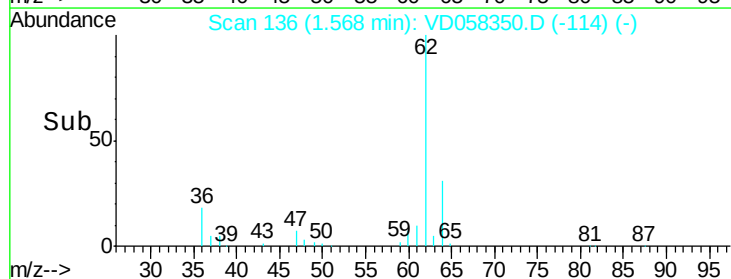
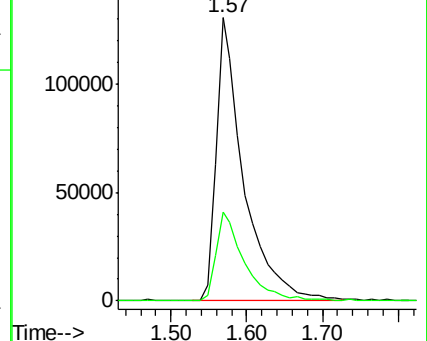
62 100

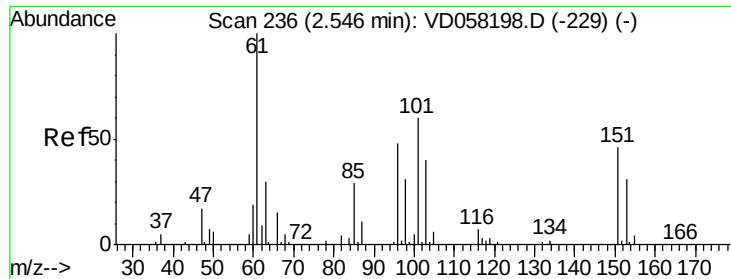
64 31.4 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.44 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.03 min

Lab File: VD058350.D

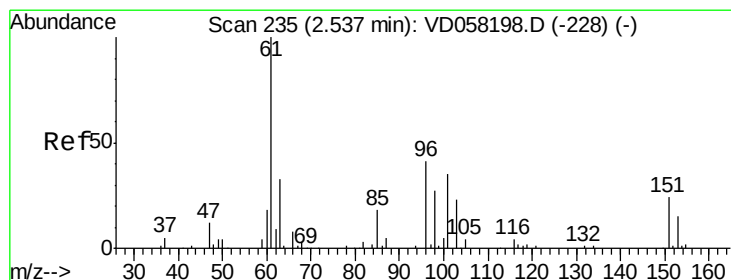
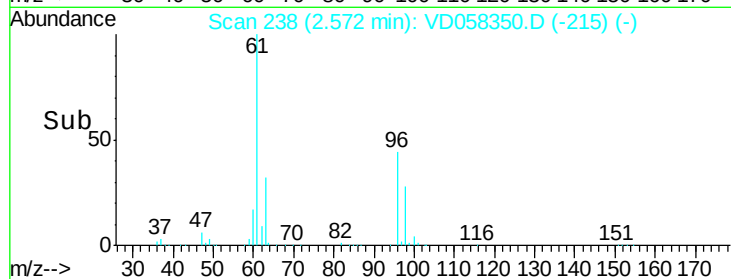
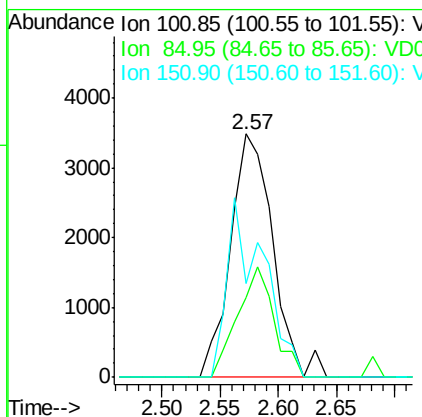
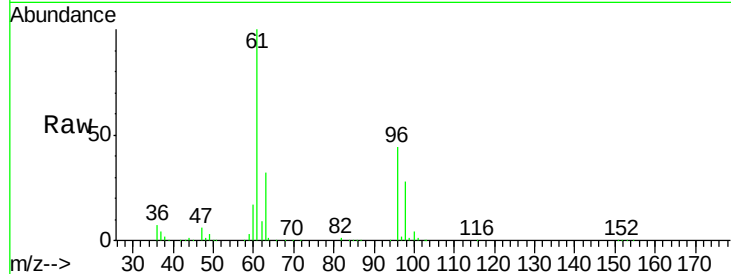
Acq: 23 Jun 2018 19:35

Instrument :
MSVOA_D
ClientSampleId :
WP021SB477-31-33-180621

Tot Ion	Ratio	Lower	Upper
101	100		
85	32.7	39.0	58.4#
151	38.5	61.8	92.8#

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#12

1,1-Dichloroethene

Concen: 227.29 ug/l

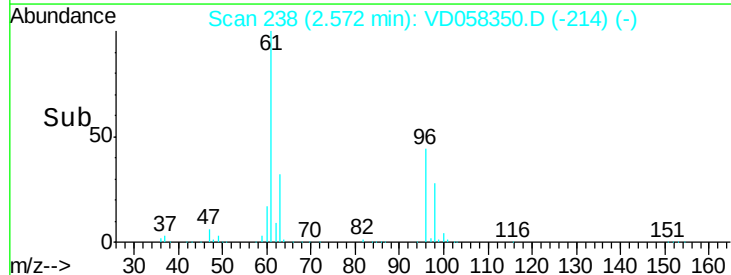
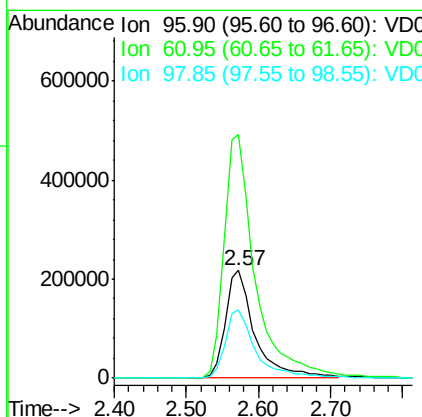
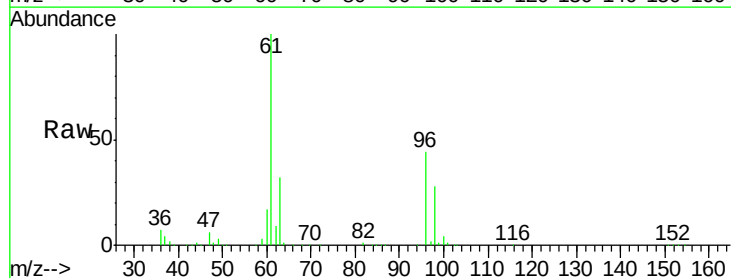
RT: 2.57 min Scan# 238

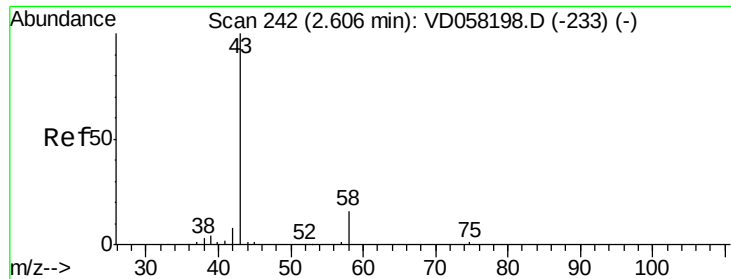
Delta R.T. 0.04 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	226.1	193.9	290.9
98	64.0	51.7	77.5





#16

Acetone

Concen: 45.33 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.03 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

Tot Ion: 43 Resp: 49466

Ion Ratio Lower Upper

43 100

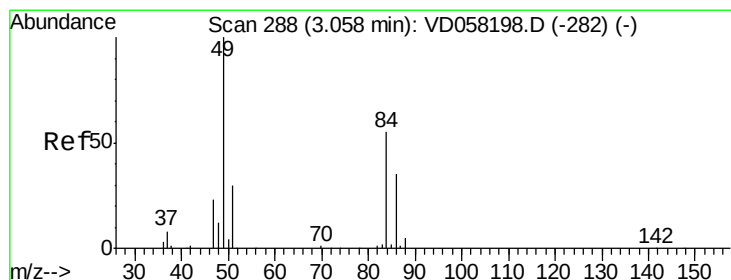
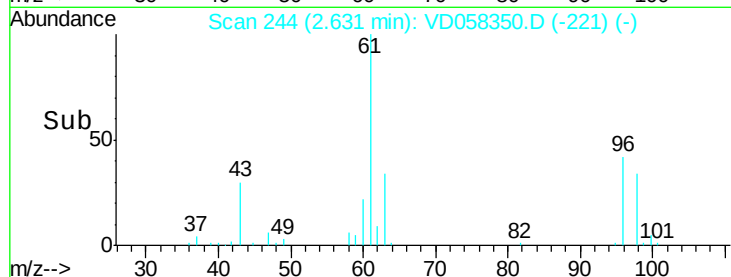
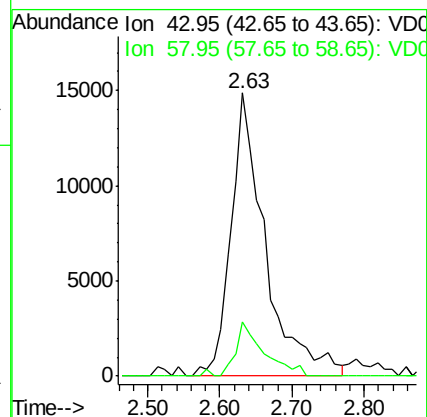
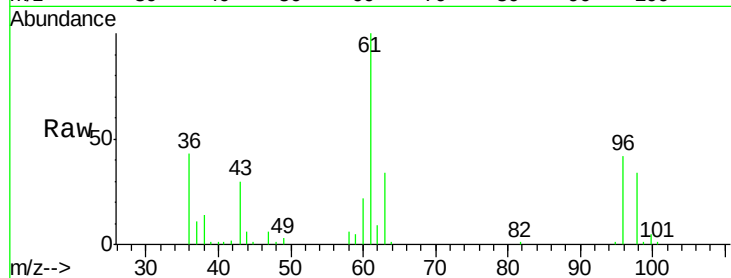
58 19.1 12.7 19.1

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#20

Methylene Chloride

Concen: 4.76 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.04 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Tgt Ion: 84 Resp: 25843

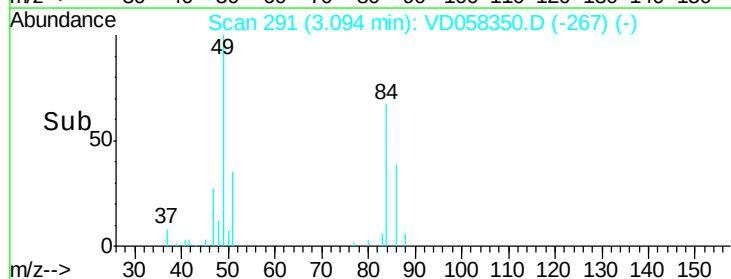
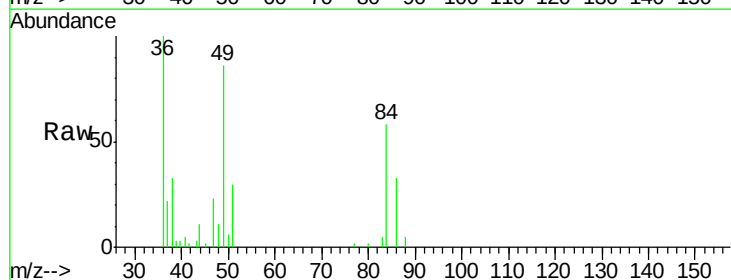
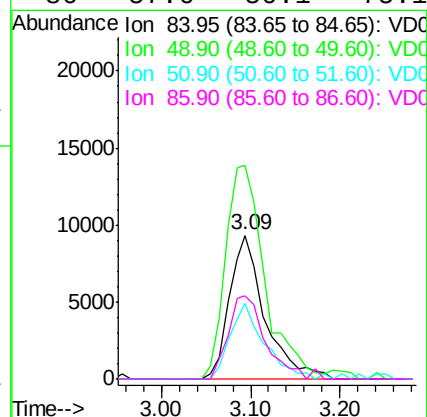
Ion Ratio Lower Upper

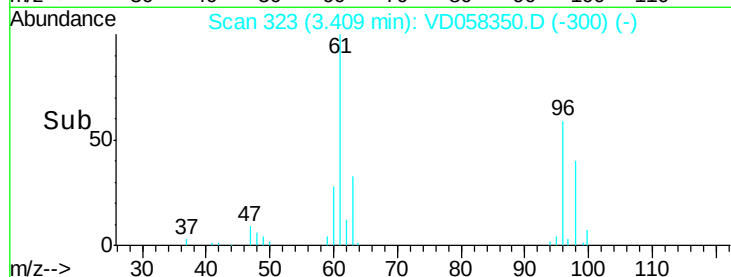
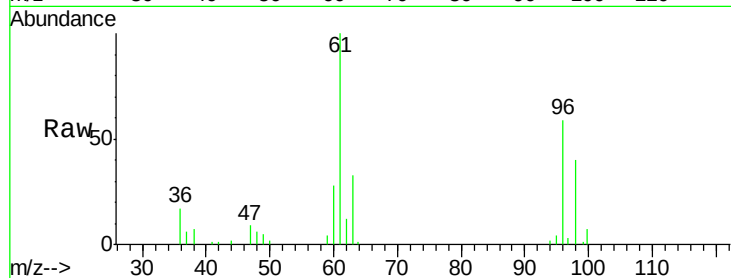
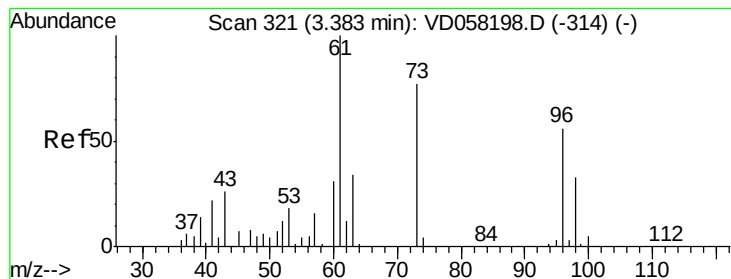
84 100

49 148.7 145.0 217.6

51 52.3 42.9 64.3

86 57.6 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 39.61 ug/l

RT: 3.41 min Scan# 323

Delta R.T. 0.03 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Tot Ion:	96	Resp:	117490
Ion	Ratio	Lower	Upper
96	100		
61	168.3	143.8	215.6
98	66.5	48.0	72.0

Instrument :

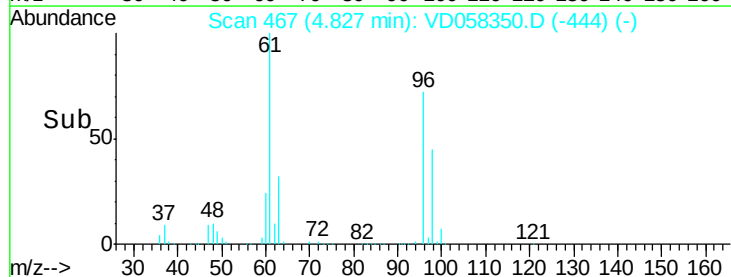
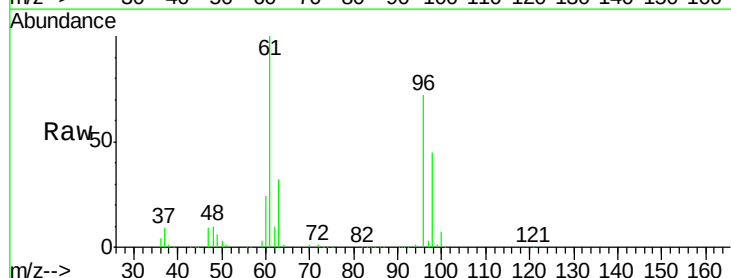
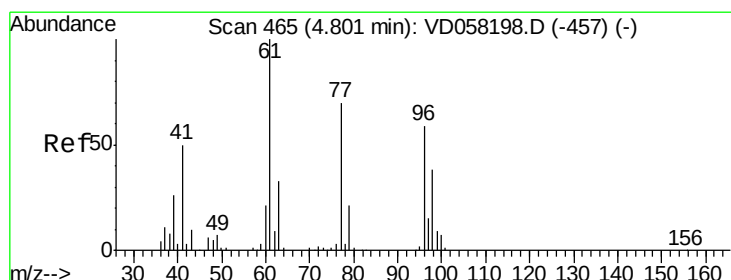
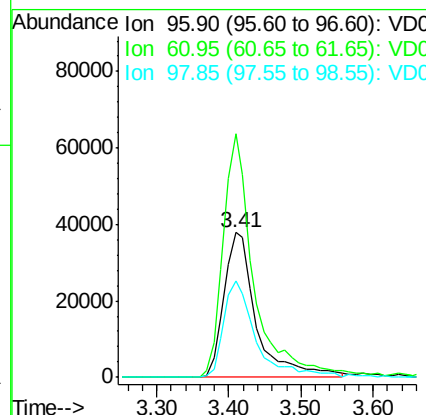
MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

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#27

cis-1,2-Dichloroethene

Concen: 3258.94 ug/l m

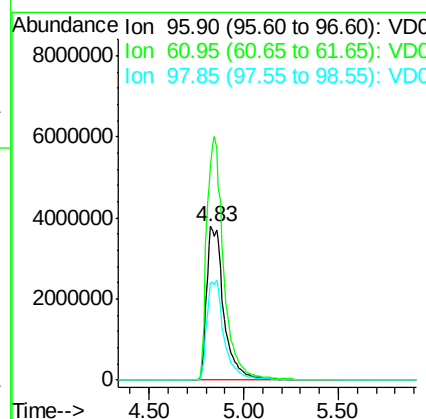
RT: 4.83 min Scan# 467

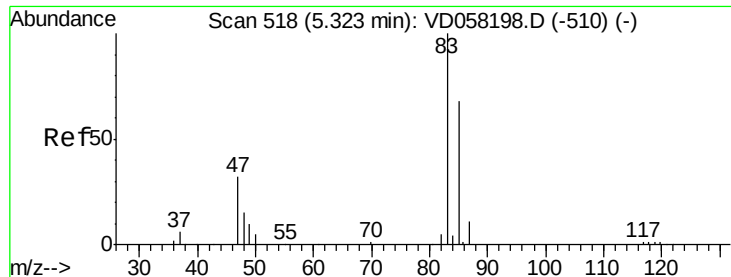
Delta R.T. 0.03 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Tgt Ion:	96	Resp:	24153719
Ion	Ratio	Lower	Upper
96	100		
61	139.5	0.0	338.6
98	63.5	0.0	130.2





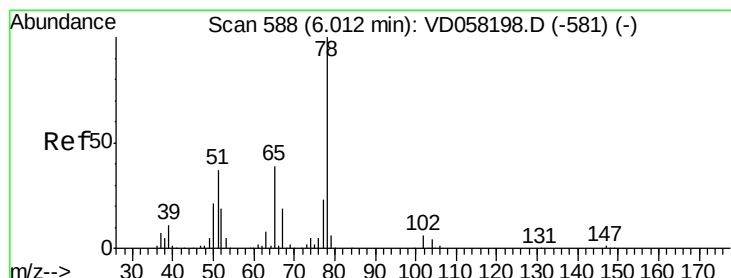
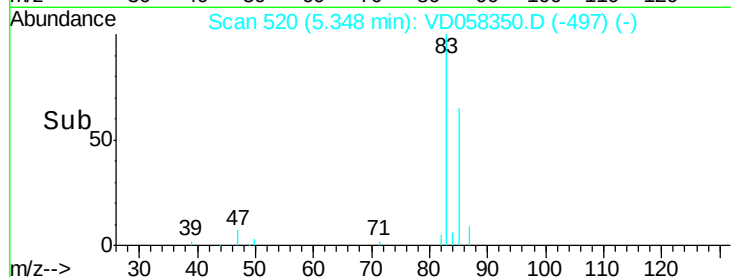
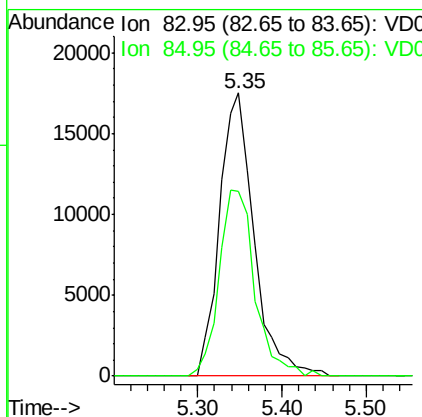
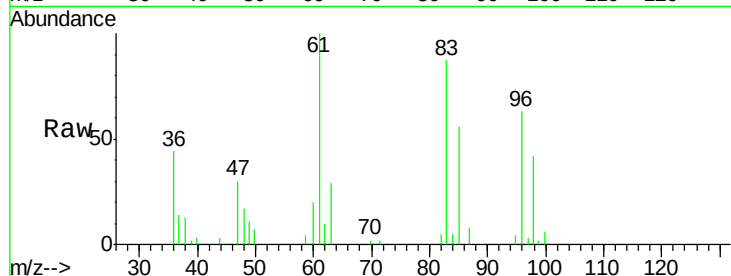
#30
Chloroform
Concen: 3.48 ug/l
RT: 5.35 min Scan# 520
Delta R.T. 0.03 min
Lab File: VD058350.D
Acq: 23 Jun 2018 19:35

Instrument :
MSVOA_D
ClientSampleId :
WP021SB477-31-33-180621

Tot Ion: 83 Resp: 49703
Ion Ratio Lower Upper
83 100
85 65.2 54.8 82.2

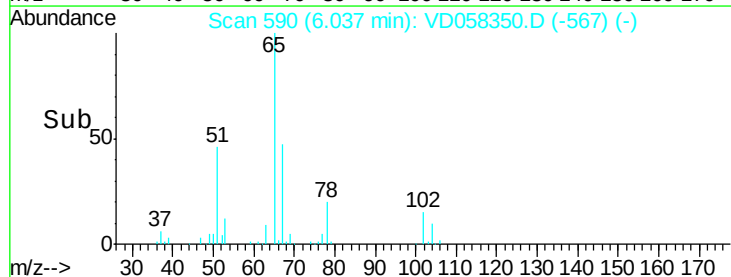
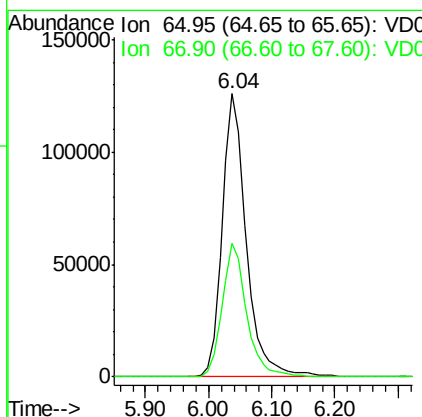
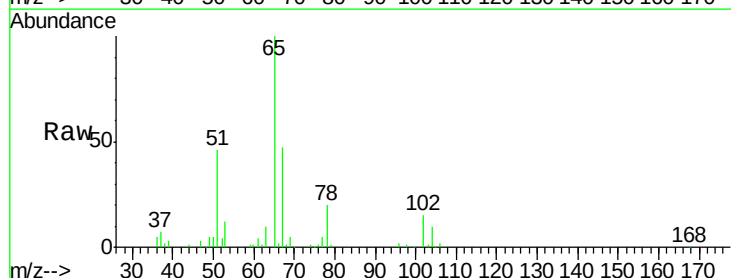
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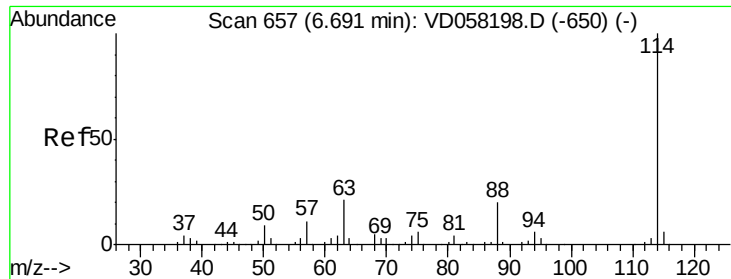
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#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.04 min Scan# 590
Delta R.T. 0.03 min
Lab File: VD058350.D
Acq: 23 Jun 2018 19:35

Tgt Ion: 65 Resp: 334577
Ion Ratio Lower Upper
65 100
67 47.2 0.0 97.8





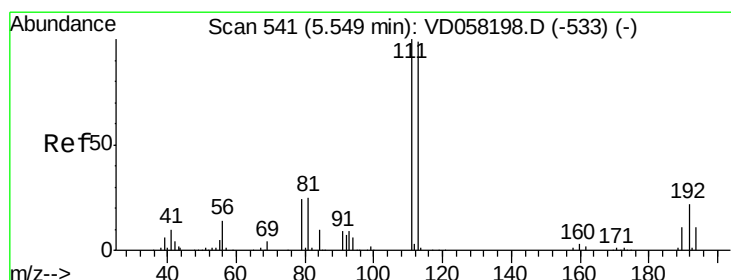
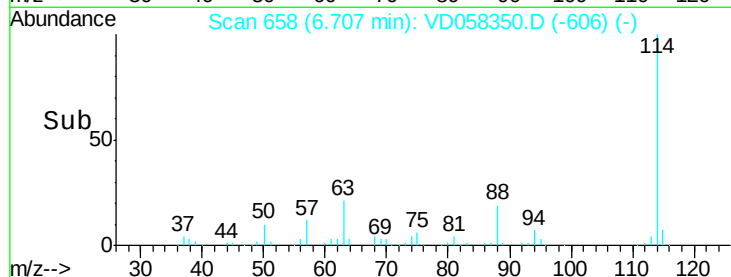
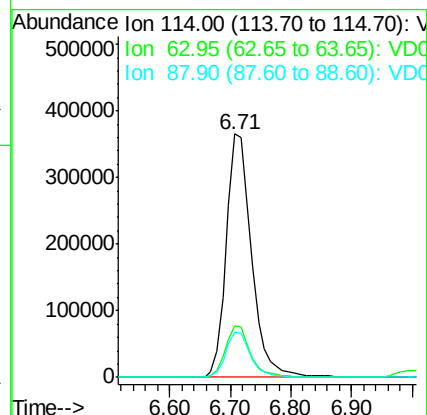
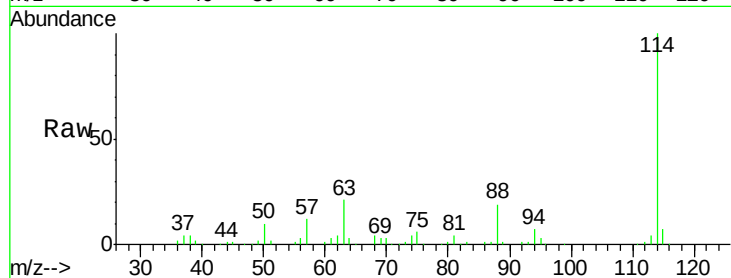
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 658
 Delta R.T. 0.02 min
 Lab File: VD058350.D
 Acq: 23 Jun 2018 19:35

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB477-31-33-180621

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	18.6	0.0	40.6

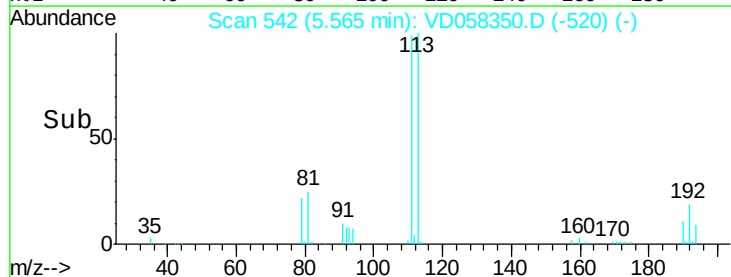
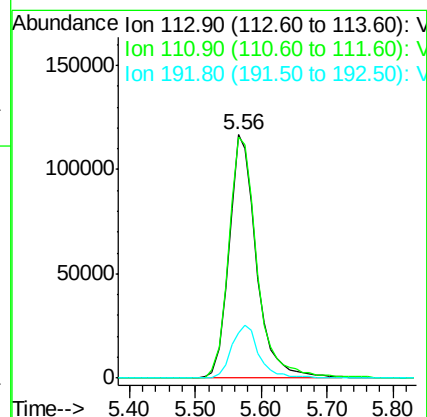
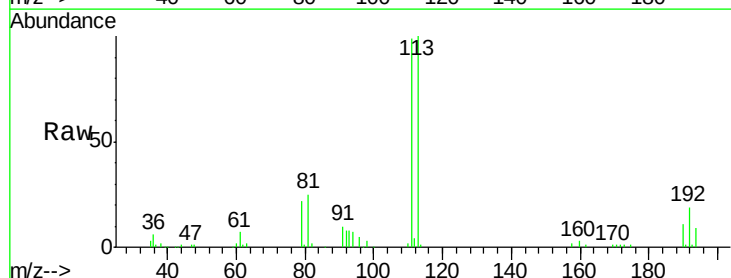
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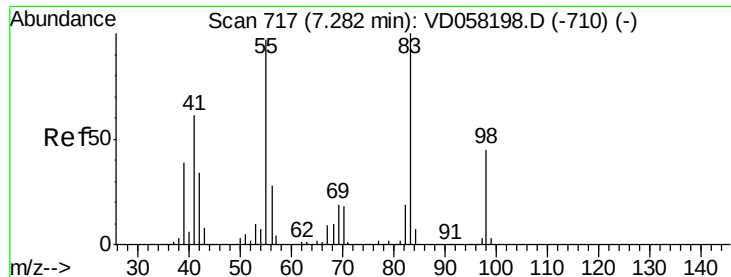
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#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.02 min
 Lab File: VD058350.D
 Acq: 23 Jun 2018 19:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.2	80.6	121.0
192	18.8	17.8	26.6





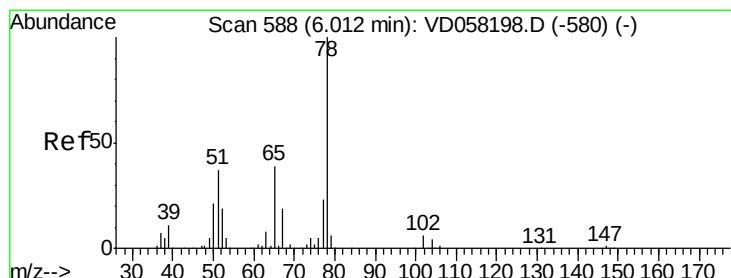
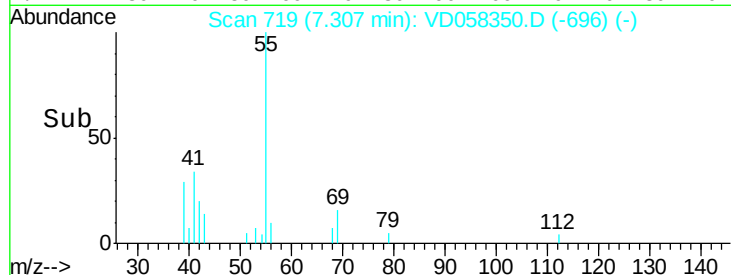
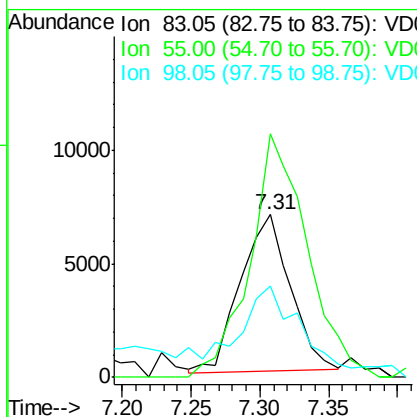
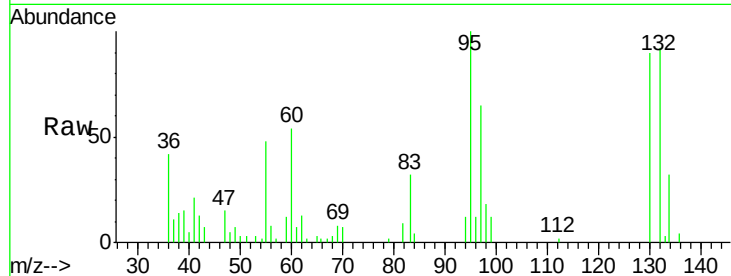
#39
Methylcyclohexane
Concen: 1.70 ug/l
RT: 7.31 min Scan# 719
Delta R.T. 0.03 min
Lab File: VD058350.D
Acq: 23 Jun 2018 19:35

Instrument :
MSVOA_D
ClientSampleId :
WP021SB477-31-33-180621

Tot Ion: 83 Resp: 17407
Ion Ratio Lower Upper
83 100
55 150.0 77.4 116.2#
98 55.9 35.9 53.9#

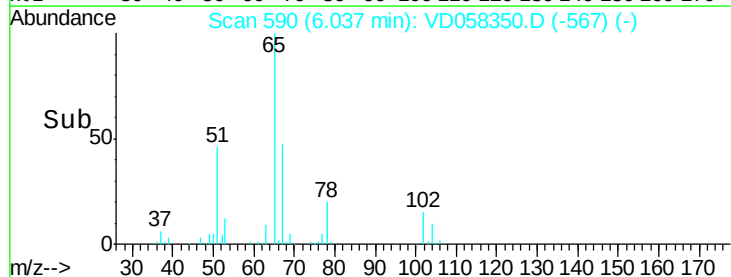
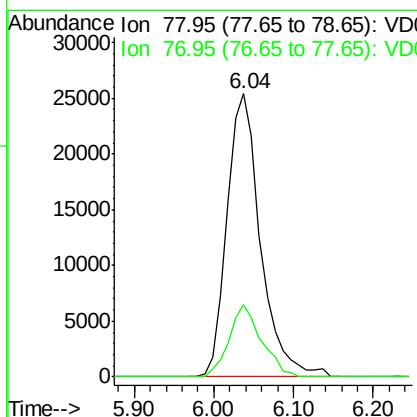
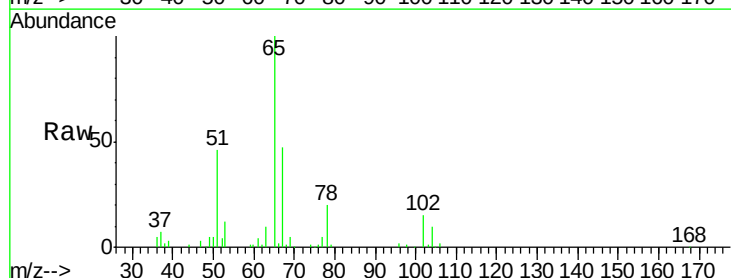
Manual Integrations
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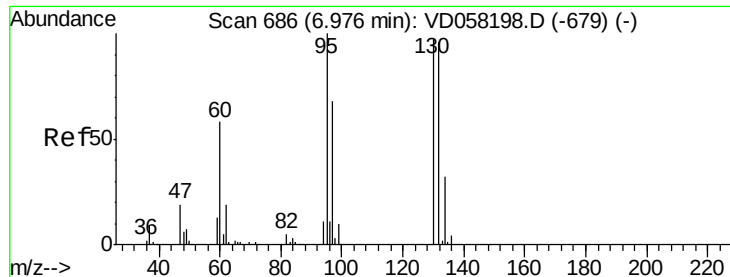
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#40
Benzene
Concen: 2.99 ug/l
RT: 6.04 min Scan# 590
Delta R.T. 0.03 min
Lab File: VD058350.D
Acq: 23 Jun 2018 19:35

Tgt Ion: 78 Resp: 74581
Ion Ratio Lower Upper
78 100
77 25.7 18.5 27.7





#44

Trichloroethene

Concen: 2084.77 ug/l m

RT: 7.05 min Scan# 693

Delta R.T. 0.08 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

Tot Ion:130 Resp:15636898

Ion Ratio Lower Upper

130 100

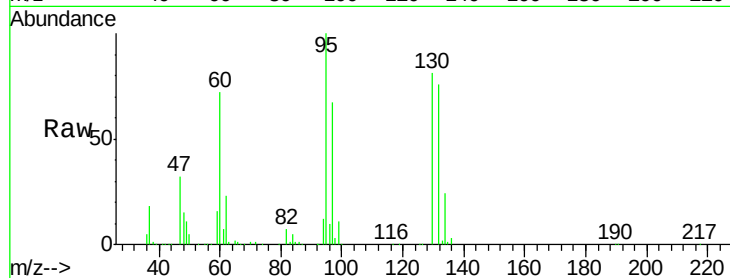
95 123.7 0.0 205.6

Manual Integrations

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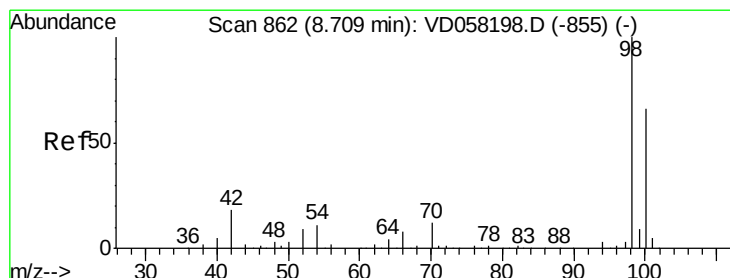
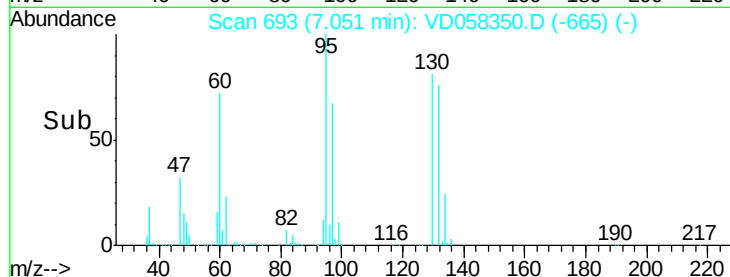
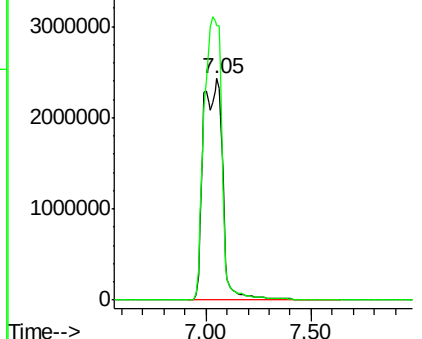
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.02 min

Lab File: VD058350.D

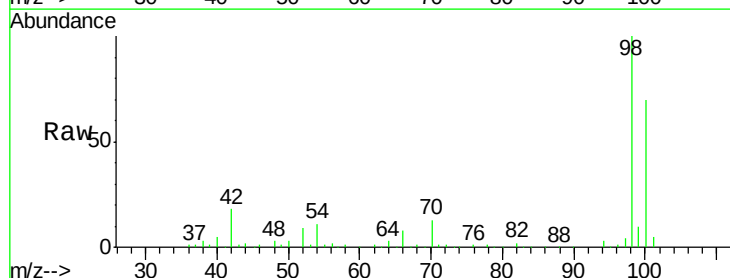
Acq: 23 Jun 2018 19:35

Tgt Ion: 98 Resp: 797753

Ion Ratio Lower Upper

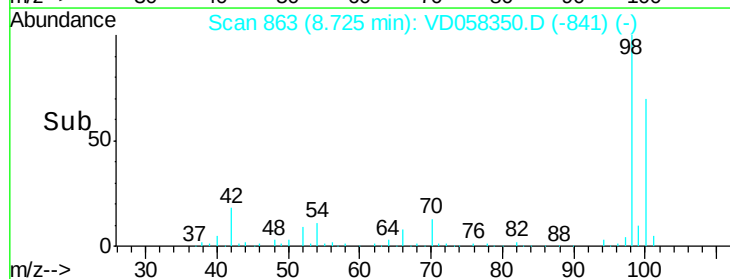
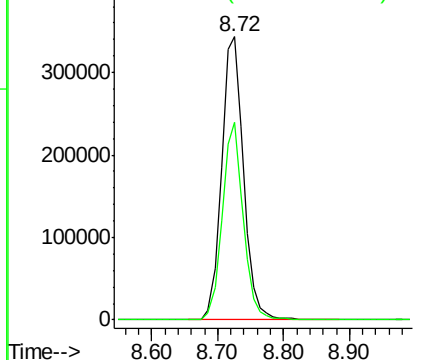
98 100

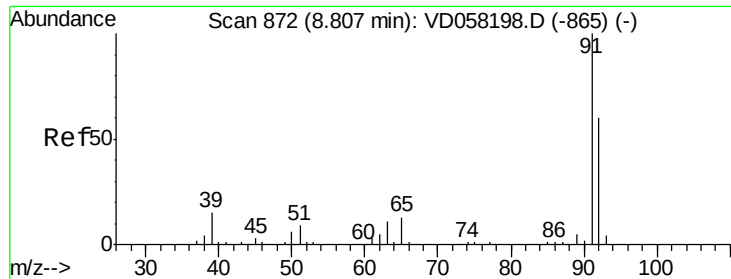
100 69.9 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 4.93 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.01 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

Tot Ion: 92 Resp: 70118

Ion Ratio Lower Upper

92 100

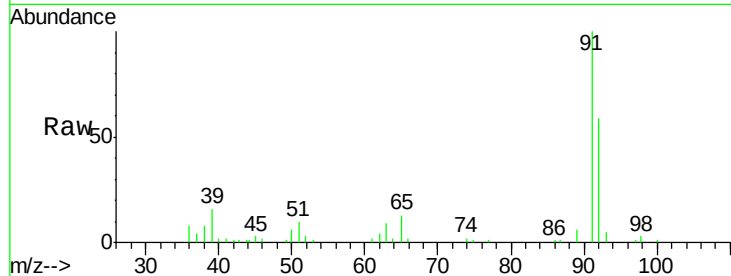
91 168.1 133.2 199.8

Manual Integrations

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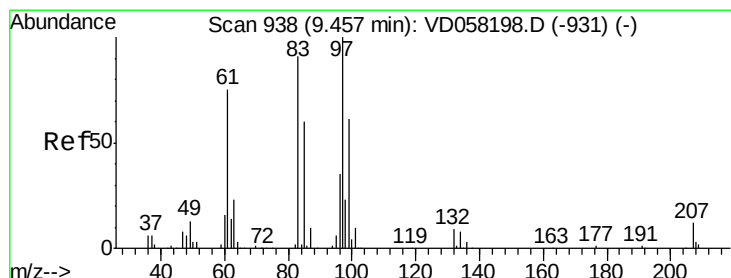
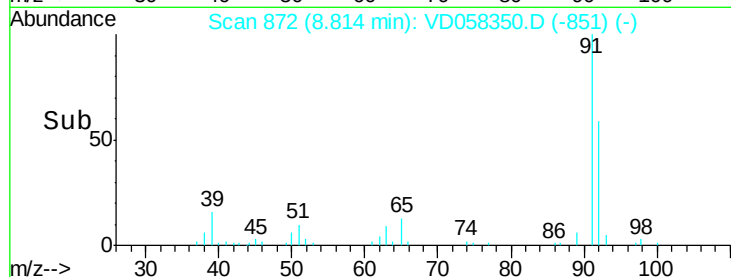
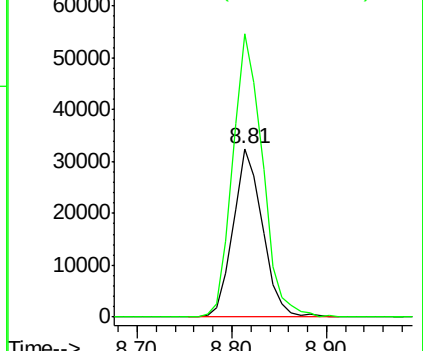
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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 4.40 ug/l

RT: 9.46 min Scan# 938

Delta R.T. 0.01 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Tgt Ion: 97 Resp: 22143

Ion Ratio Lower Upper

97 100

83 76.4 72.9 109.3

85 51.1 48.2 72.4

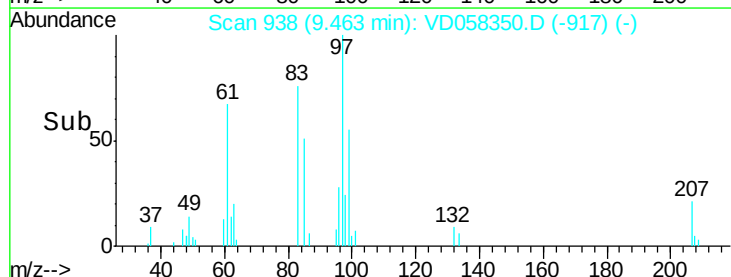
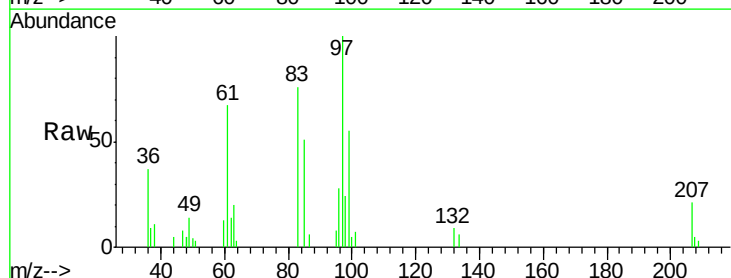
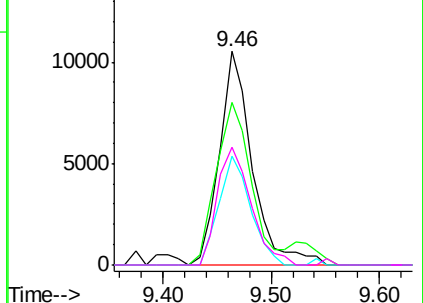
99 55.0 48.9 73.3

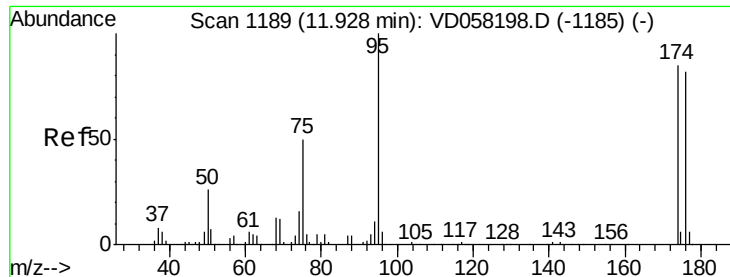
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

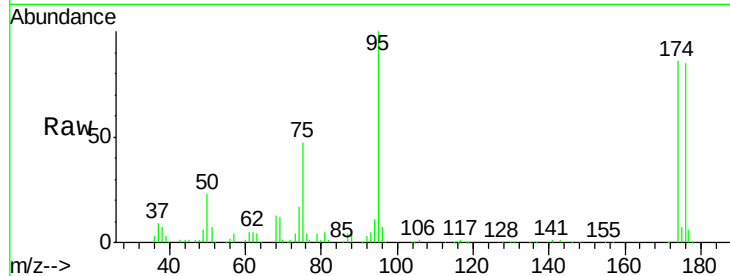
ClientSampleId :

WP021SB477-31-33-180621

Tot Ion:	95	Resp:	321209
Ion Ratio	Lower	Upper	
95	100		
174	86.3	0.0	170.2
176	84.8	0.0	164.6

Manual Integrations
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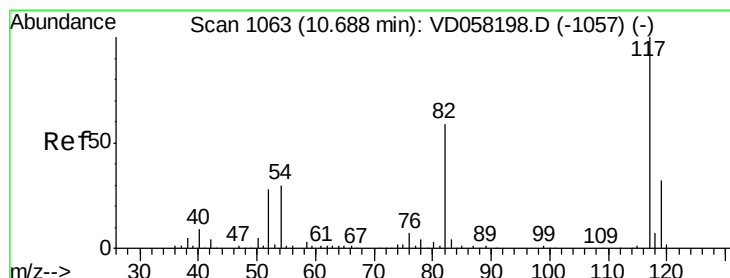
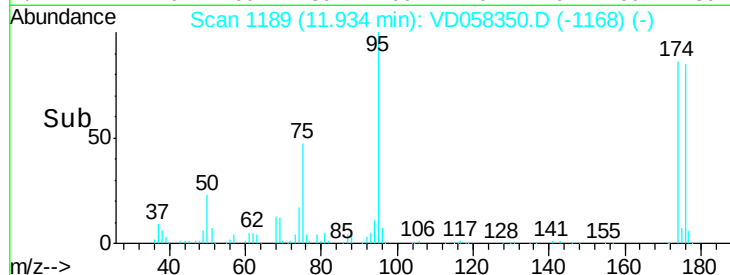
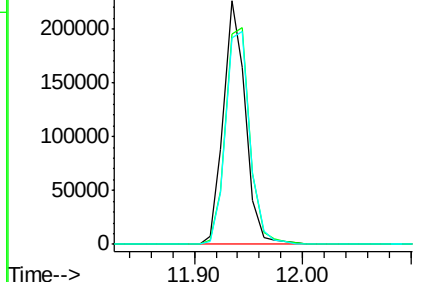
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Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

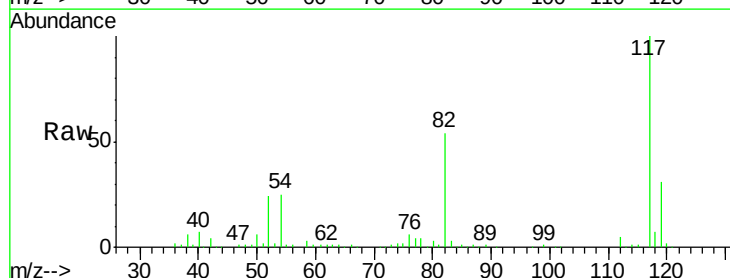
RT: 10.70 min Scan# 1064

Delta R.T. 0.02 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

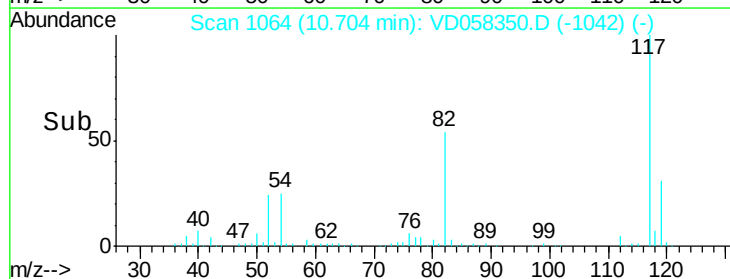
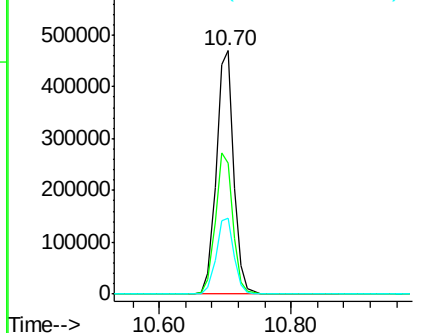
Tgt Ion:	117	Resp:	857183
Ion Ratio	Lower	Upper	
117	100		
82	53.7	47.0	70.6
119	31.3	25.3	37.9

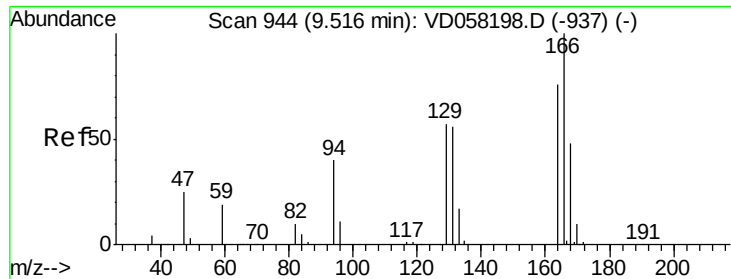


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#64

Tetrachloroethene

Concen: 14.23 ug/l

RT: 9.52 min Scan# 944

Delta R.T. 0.01 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

Tot Ion:164 Resp: 102608

Ion Ratio Lower Upper

164 100

166 130.9 105.4 158.0

129 76.6 59.6 89.4

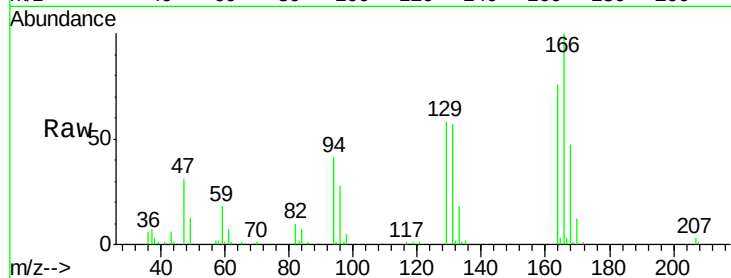
131 74.2 59.4 89.2

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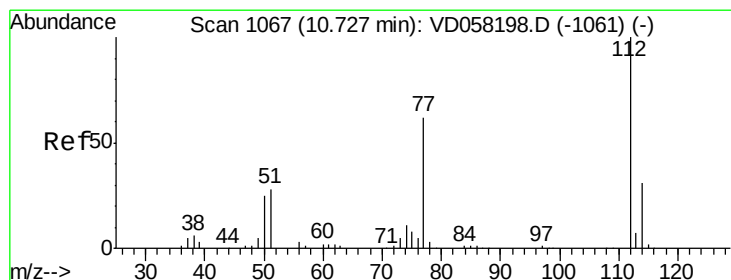
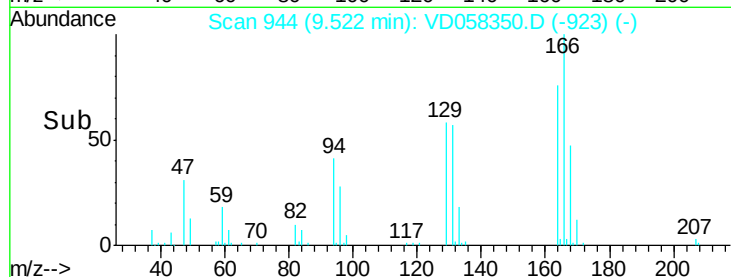
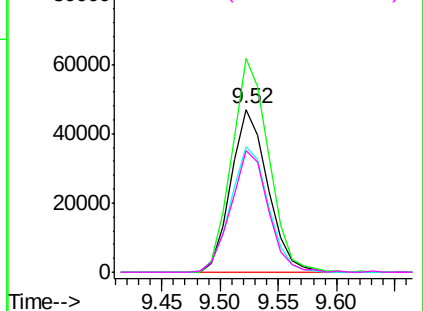


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 74.08 ug/l

RT: 10.73 min Scan# 1067

Delta R.T. 0.01 min

Lab File: VD058350.D

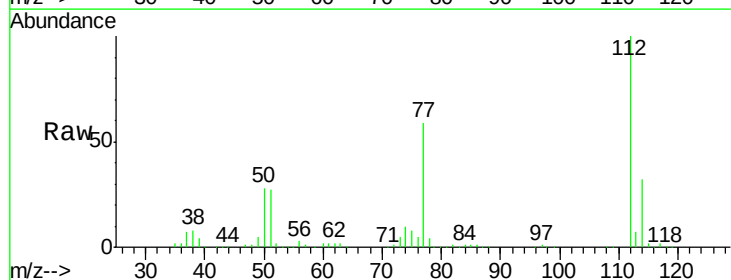
Acq: 23 Jun 2018 19:35

Tgt Ion:112 Resp: 1187741

Ion Ratio Lower Upper

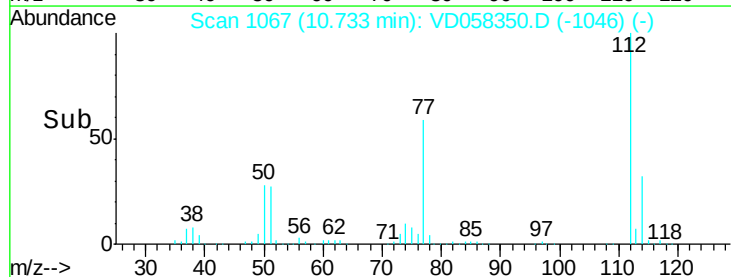
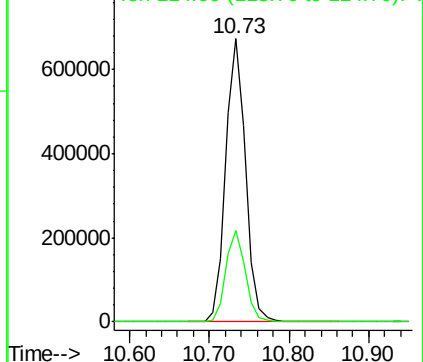
112 100

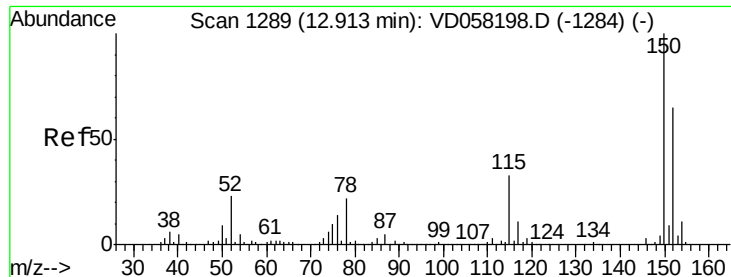
114 32.3 25.0 37.4



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: 50.00 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

ClientSampleId :

WP021SB477-31-33-180621

Tot Ion:152 Resp: 414418

Ion Ratio Lower Upper

152 100

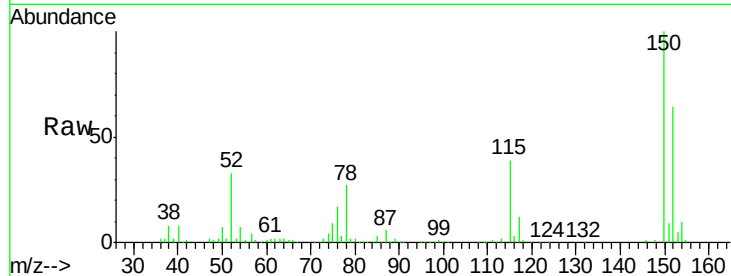
115 60.6 25.1 75.3

150 155.1 0.0 308.8

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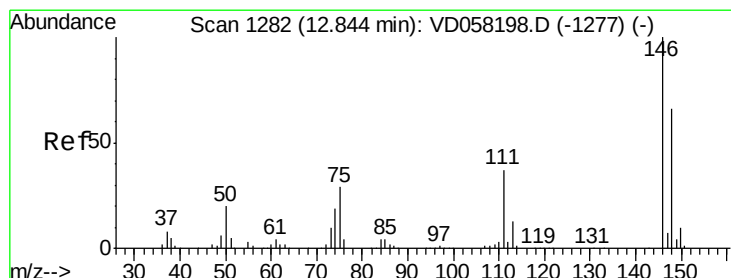
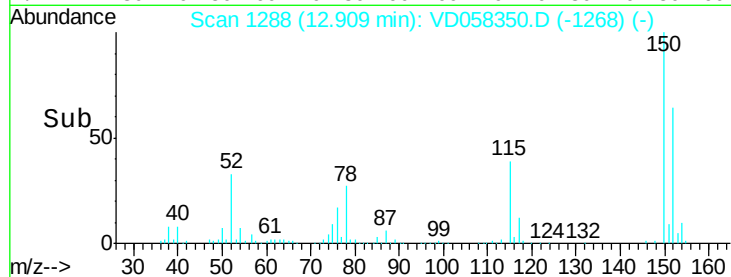
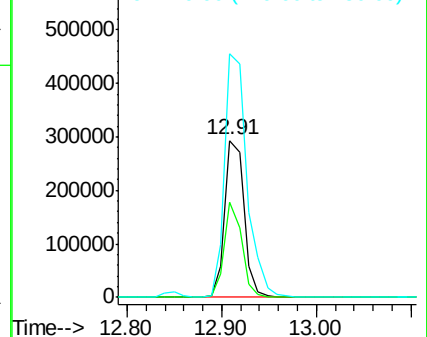
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#87

1,3-Dichlorobenzene

Concen: 11.70 ug/l

RT: 12.85 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

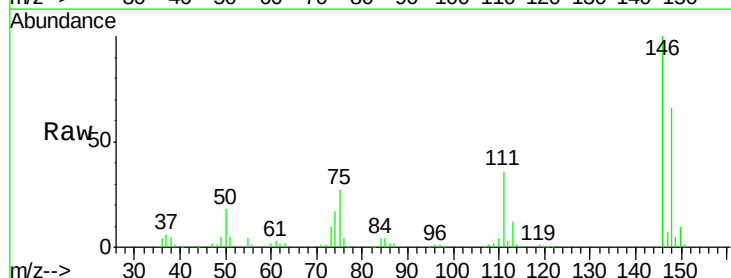
Tgt Ion:146 Resp: 151007

Ion Ratio Lower Upper

146 100

111 35.7 18.4 55.0

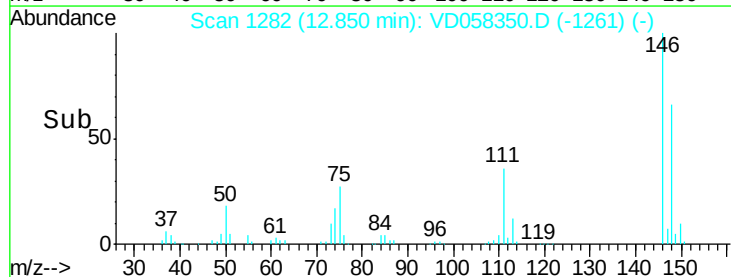
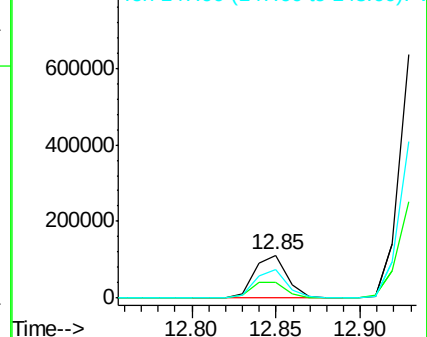
148 65.7 32.8 98.4

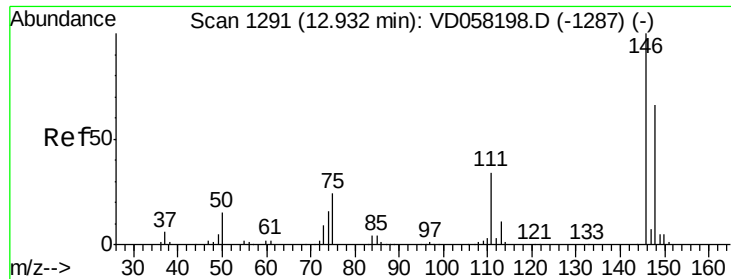


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 68.84 ug/l

RT: 12.93 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Instrument :

MSVOA_D

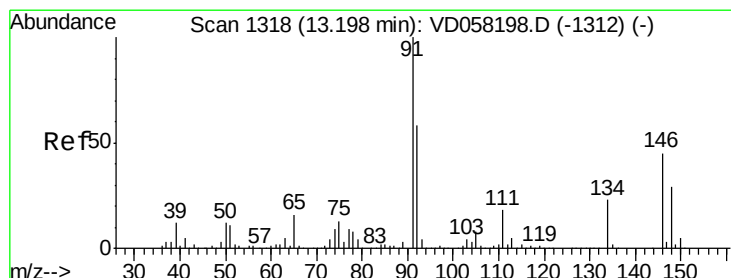
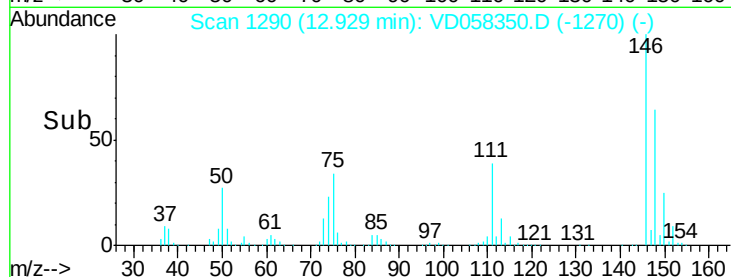
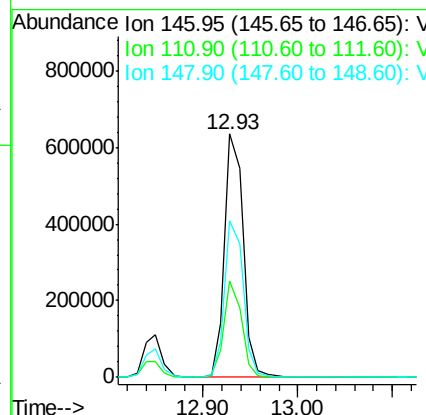
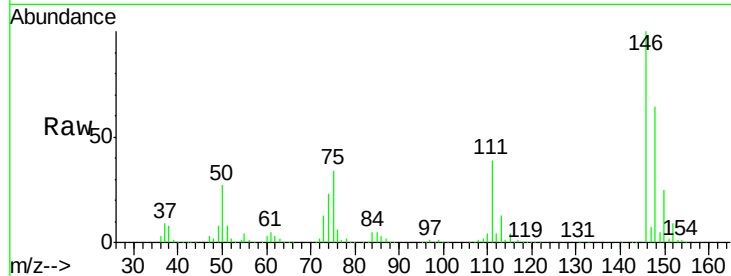
ClientSampleId :

WP021SB477-31-33-180621

Tot Ion:	146	Resp:	867304
Ion Ratio	Lower	Upper	
146	100		
111	39.4	17.2	51.5
148	64.4	33.1	99.3

Manual Integrations
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#91

1,2-Dichlorobenzene

Concen: 168.91 ug/l

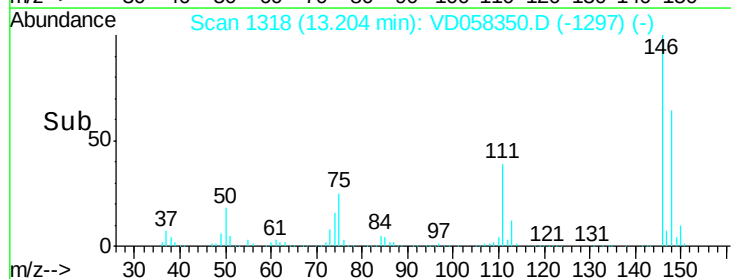
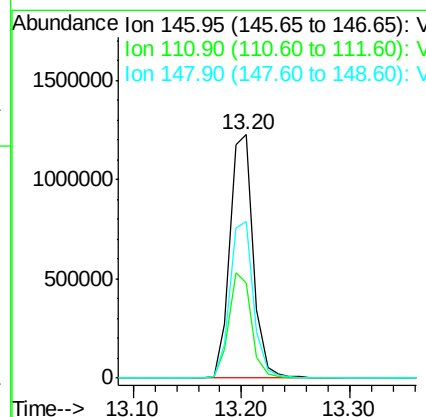
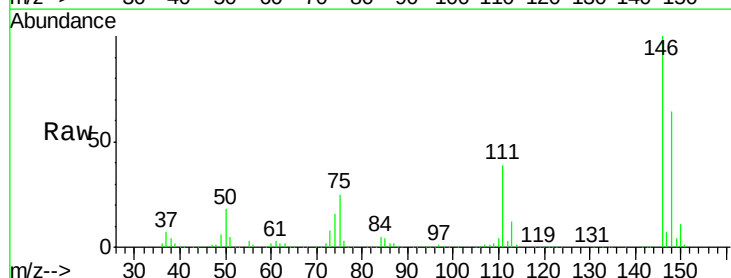
RT: 13.20 min Scan# 1318

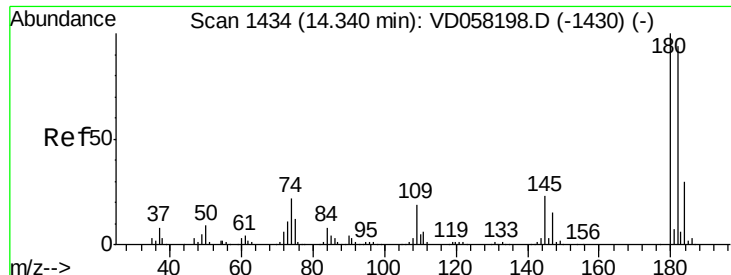
Delta R.T. 0.01 min

Lab File: VD058350.D

Acq: 23 Jun 2018 19:35

Tgt Ion:	146	Resp:	1854437
Ion Ratio	Lower	Upper	
146	100		
111	39.2	19.6	58.7
148	64.2	32.0	96.2





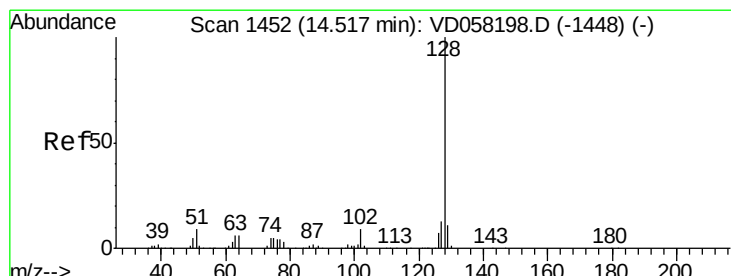
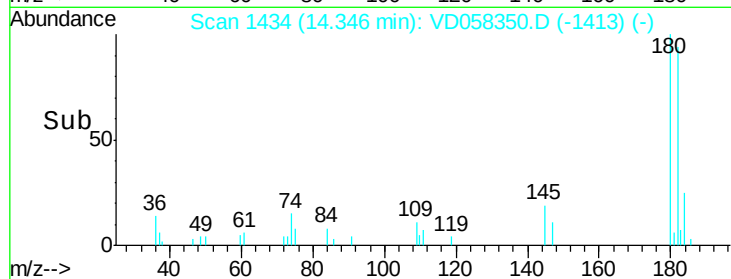
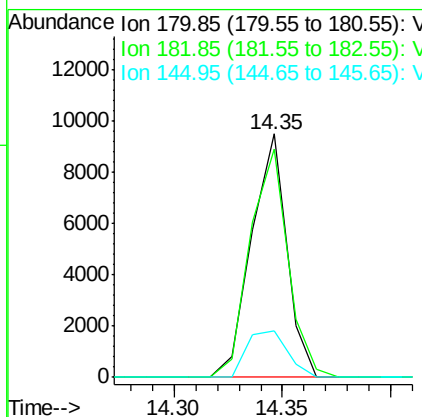
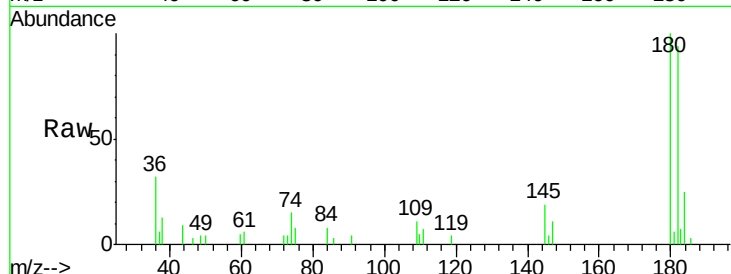
#93
 1,2,4-Trichlorobenzene
 Concen: 1.02 ug/l
 RT: 14.35 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VD058350.D
 Acq: 23 Jun 2018 19:35

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB477-31-33-180621

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.1	141.3
145	19.1	11.7	35.0

Manual Integrations
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#95
 Naphthalene
 Concen: 1.31 ug/l
 RT: 14.52 min Scan# 1452
 Delta R.T. 0.01 min
 Lab File: VD058350.D
 Acq: 23 Jun 2018 19:35

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.0	15.0
129	8.2	8.7	13.1#

