

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058356.D
 Acq On : 23 Jun 2018 22:25
 Operator : VA/AP
 Sample : J3671-07
 Misc : 6.21g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-19-21-180621

Manual Integrations
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Quant Time: Jun 25 03:47:50 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	5.67	168	828073	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1115204	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	918035	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	460494	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	491954	58.82	ug/l	0.03
Spiked Amount 50.000			Recovery =	117.64%		
35) Dibromofluoromethane	5.57	113	503178	55.44	ug/l	0.02
Spiked Amount 50.000			Recovery =	110.88%		
50) Toluene-d8	8.72	98	1182249	53.84	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.68%		
62) 4-Bromofluorobenzene	11.94	95	497101	55.42	ug/l	0.00
Spiked Amount 50.000			Recovery =	110.84%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.57	62	4191187	966.18	ug/l	97
6) Chloroethane	1.91	64	27465	16.31	ug/l	93
12) 1,1-Dichloroethene	2.57	96	106862	37.56	ug/l	93
16) Acetone	2.63	43	53425	46.71	ug/l	94
20) Methylene Chloride	3.10	84	37733	8.70	ug/l	94
21) trans-1,2-Dichloroethene	3.41	96	337393	108.51	ug/l	84
24) 1,1-Dichloroethane	3.99	63	730642	51.57	ug/l	99
27) cis-1,2-Dichloroethene	4.89	96	28936916m	3724.35	ug/l	
29) Tetrahydrofuran	5.21	42	10072	7.59	ug/l #	60
30) Chloroform	5.35	83	33110	2.21	ug/l	99
39) Methylcyclohexane	7.30	83	35057	3.26	ug/l #	95
40) Benzene	6.03	78	361475	13.75	ug/l	98
42) 1,2-Dichloroethane	6.15	62	47352	4.47	ug/l	98
44) Trichloroethene	7.00	130	331115	41.96	ug/l	98
52) Toluene	8.82	92	144232	9.64	ug/l	100
55) 1,1,2-Trichloroethane	9.47	97	71822	13.57	ug/l	90
65) Chlorobenzene	10.73	112	1030471	60.01	ug/l	100
68) m/p-Xylenes	11.02	106	29716	2.94	ug/l	89
73) Isopropylbenzene	11.78	105	28922	1.05	ug/l	99
78) n-propylbenzene	12.15	91	44072	1.24	ug/l	92
80) 1,3,5-Trimethylbenzene	12.32	105	50986	2.37	ug/l	93
87) 1,3-Dichlorobenzene	12.84	146	117588	8.20	ug/l	94
88) 1,4-Dichlorobenzene	12.93	146	233945	16.71	ug/l	97
91) 1,2-Dichlorobenzene	13.20	146	442872	36.30	ug/l	99
95) Naphthalene	14.52	128	16096	1.05	ug/l #	93

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

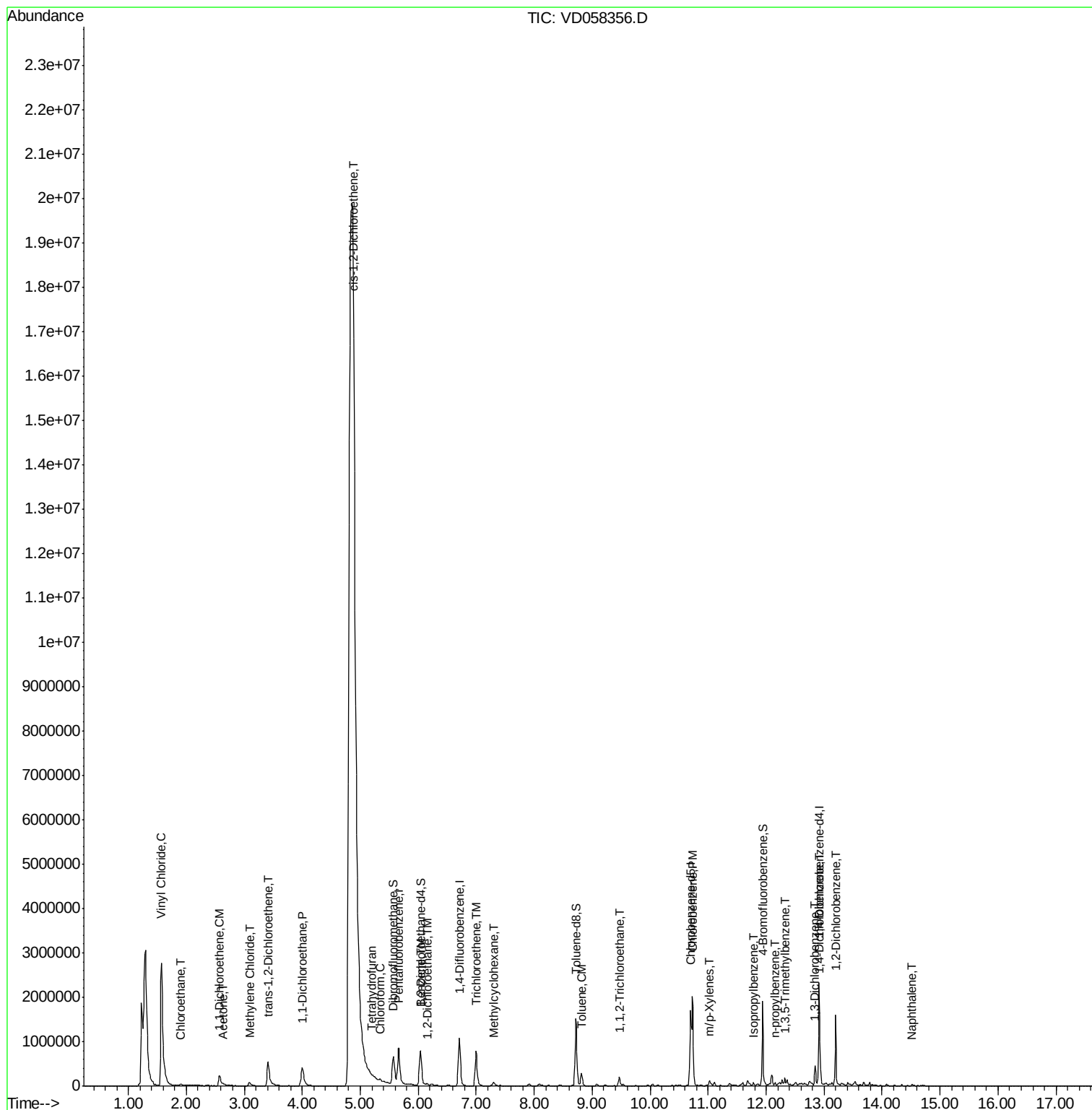
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062318\
Data File : VD058356.D
Acq On : 23 Jun 2018 22:25
Operator : VA/AP
Sample : J3671-07
Misc : 6.21g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

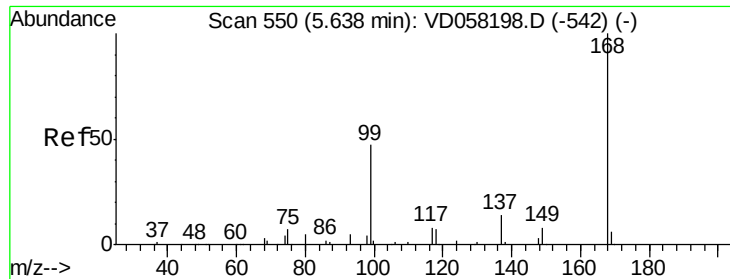
Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-19-21-180621

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Quant Time: Jun 25 03:47:50 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: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion:168 Resp: 828073

Ion Ratio Lower Upper

168 100

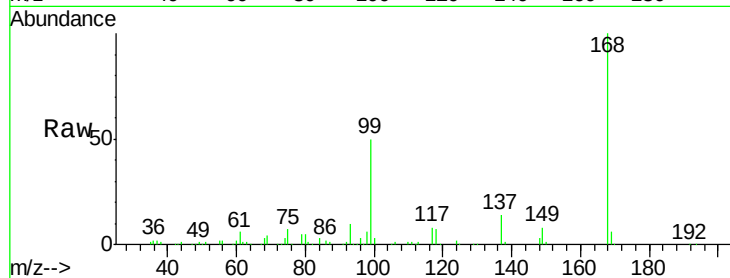
99 50.3 41.1 61.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.67

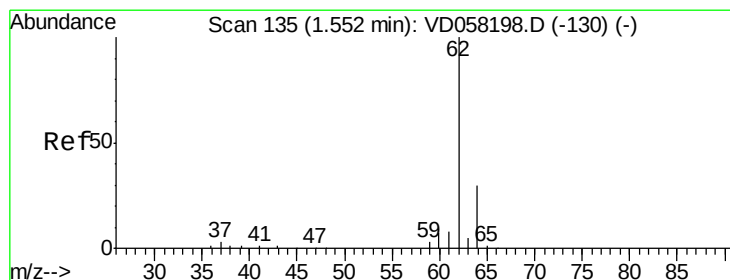
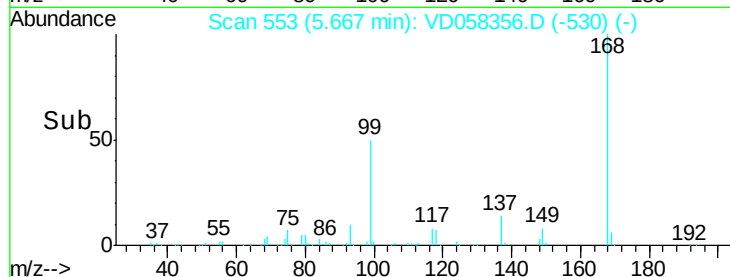
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 966.18 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.02 min

Lab File: VD058356.D

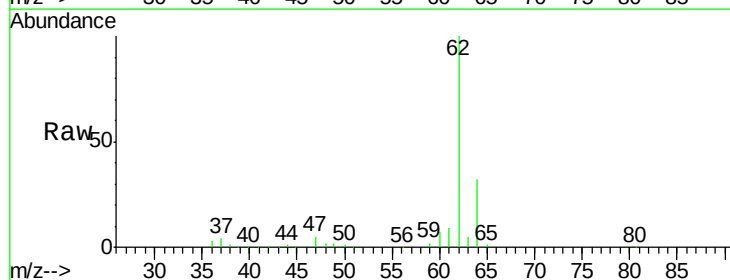
Acq: 23 Jun 2018 22:25

Tgt Ion: 62 Resp: 4191187

Ion Ratio Lower Upper

62 100

64 32.3 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.57

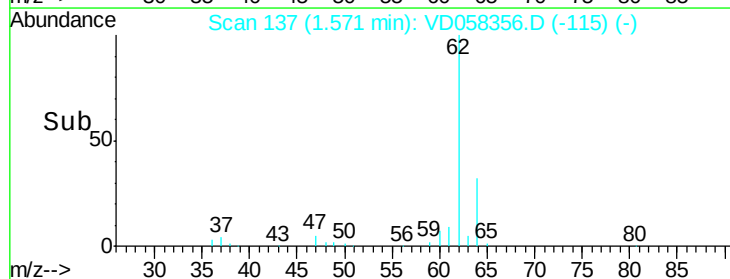
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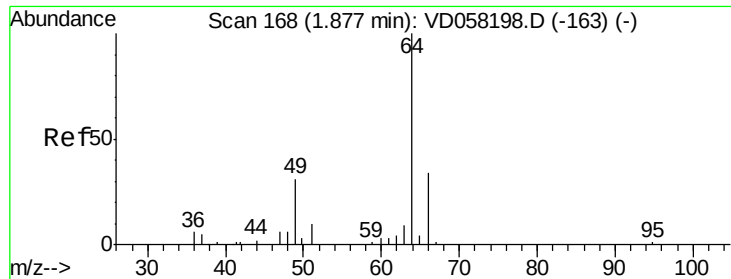
1000000

500000

0

Time-->





#6

Chloroethane

Concen: 16.31 ug/l

RT: 1.91 min Scan# 171

Delta R.T. 0.03 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion: 64 Resp: 27465

Ion Ratio Lower Upper

64 100

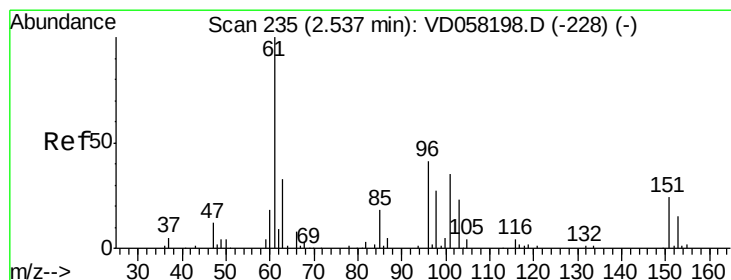
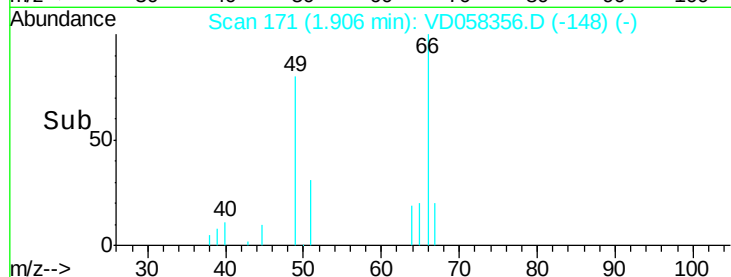
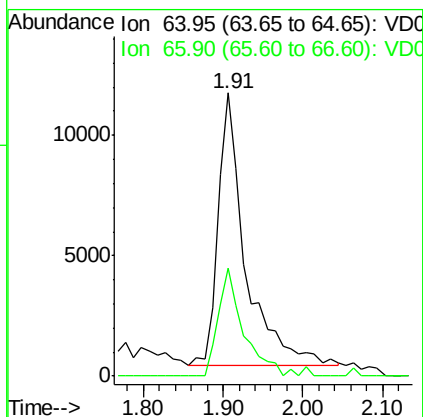
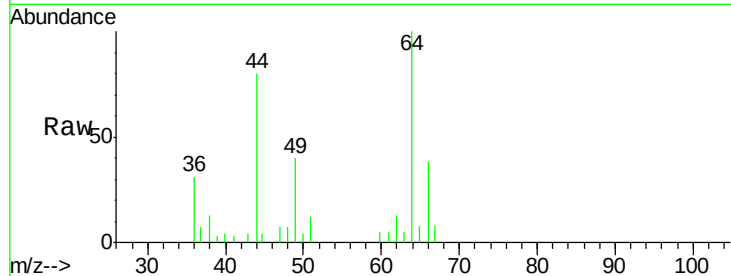
66 38.2 27.3 40.9

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#12

1,1-Dichloroethene

Concen: 37.56 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.03 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

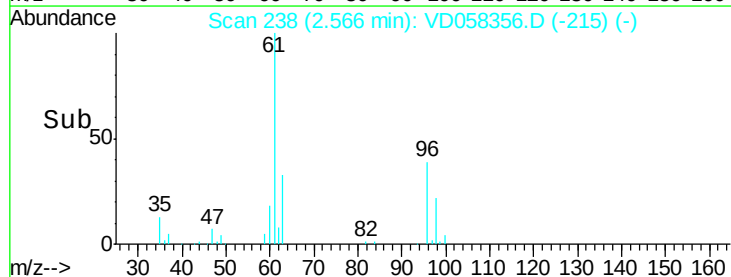
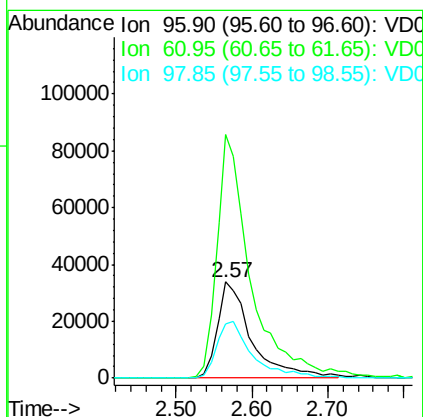
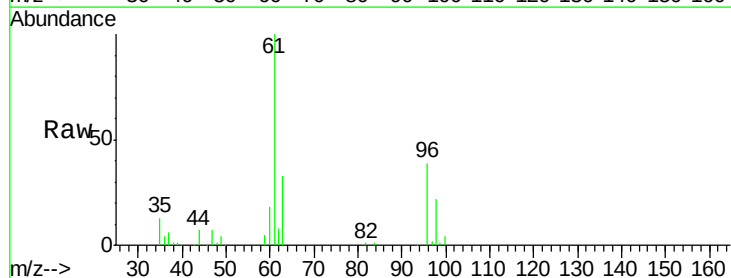
Tgt Ion: 96 Resp: 106862

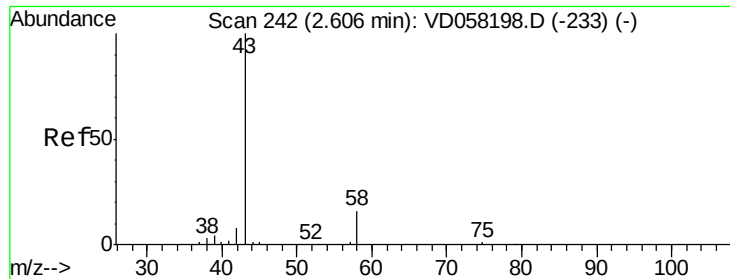
Ion Ratio Lower Upper

96 100

61 253.8 193.9 290.9

98 56.8 51.7 77.5





#16

Acetone

Concen: 46.71 ug/l

RT: 2.63 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion: 43 Resp: 53425

Ion Ratio Lower Upper

43 100

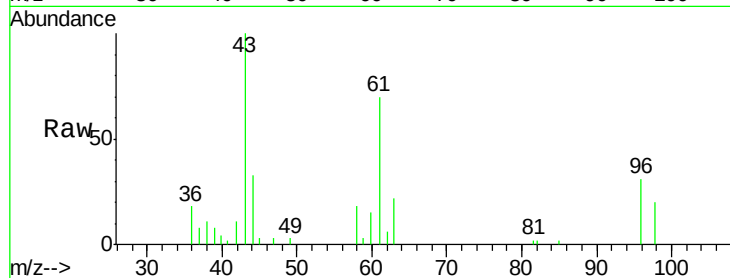
58 18.4 12.7 19.1

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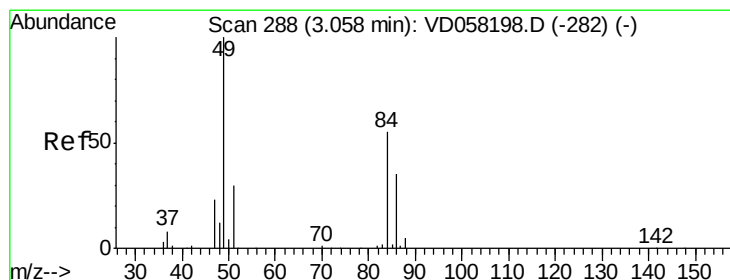
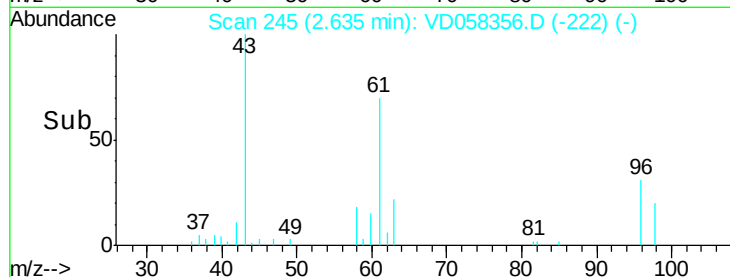
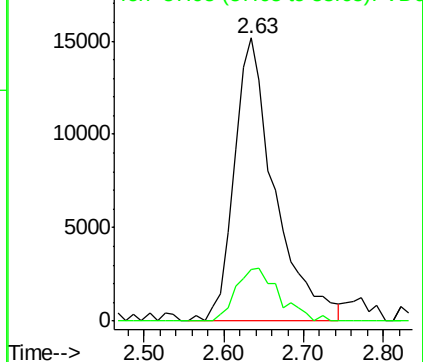
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 8.70 ug/l

RT: 3.10 min Scan# 292

Delta R.T. 0.04 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Tgt Ion: 84 Resp: 37733

Ion Ratio Lower Upper

84 100

49 186.7 145.0 217.6

51 49.5 42.9 64.3

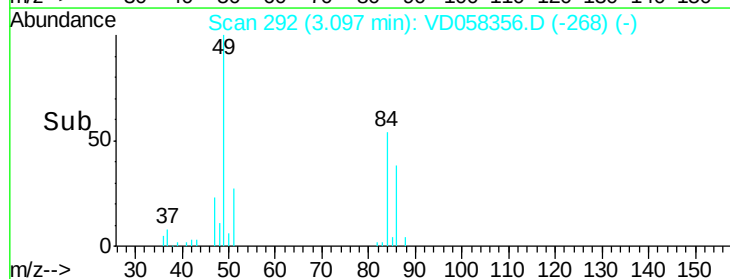
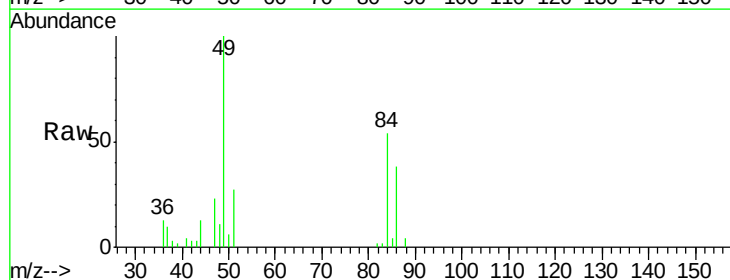
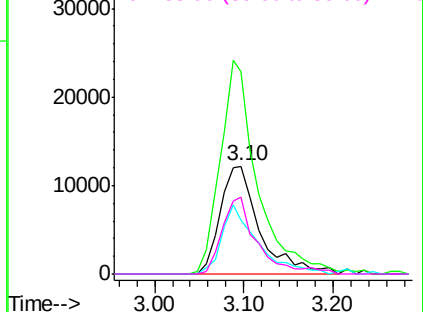
86 70.6 50.1 75.1

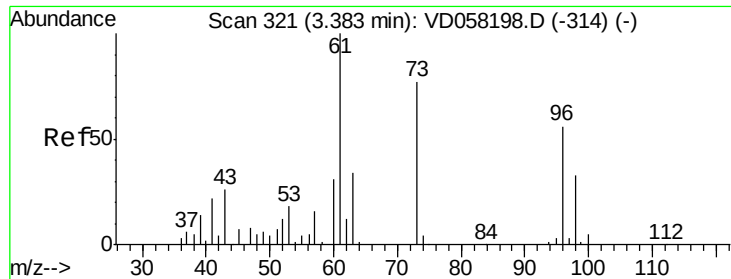
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 108.51 ug/l

RT: 3.41 min Scan# 324

Delta R.T. 0.03 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

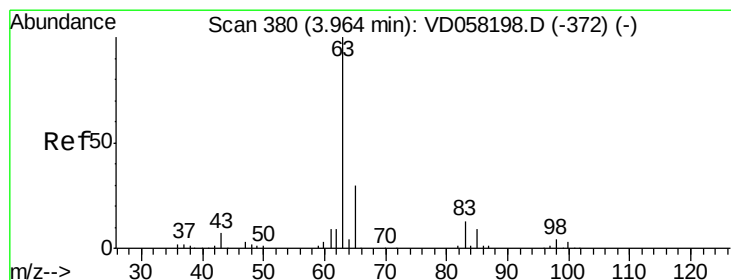
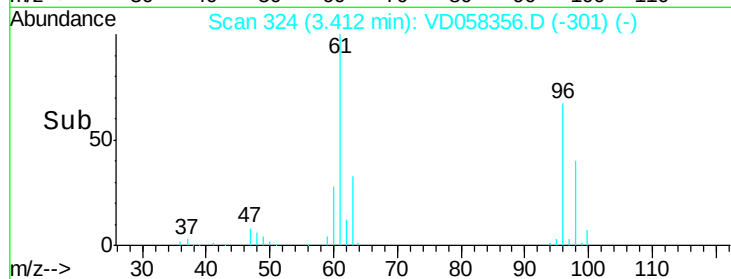
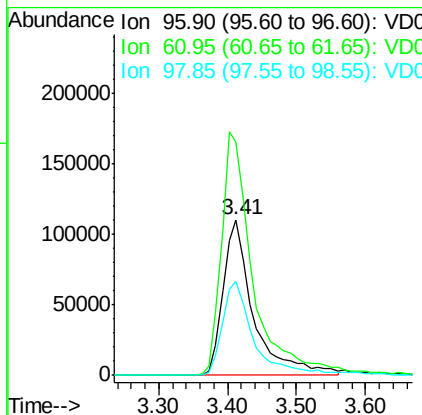
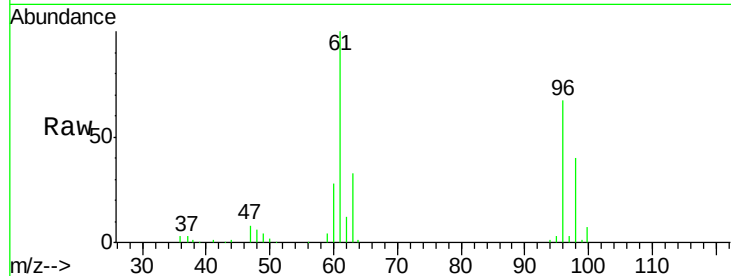
ClientSampleId :

WP021SB478-19-21-180621

Tot Ion:	96	Resp:	337393
Ion	Ratio	Lower	Upper
96	100		
61	149.6	143.8	215.6
98	60.4	48.0	72.0

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#24

1,1-Dichloroethane

Concen: 51.57 ug/l

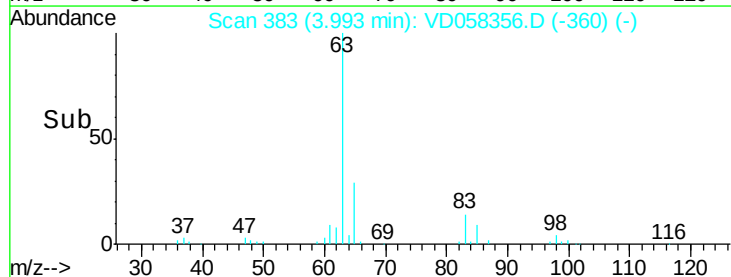
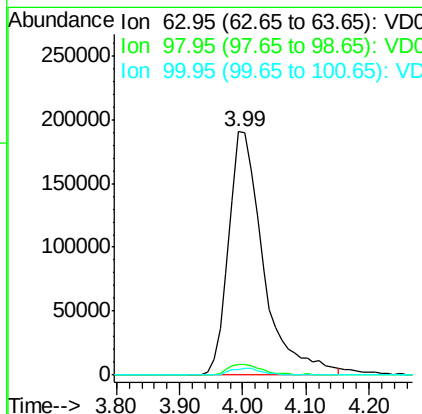
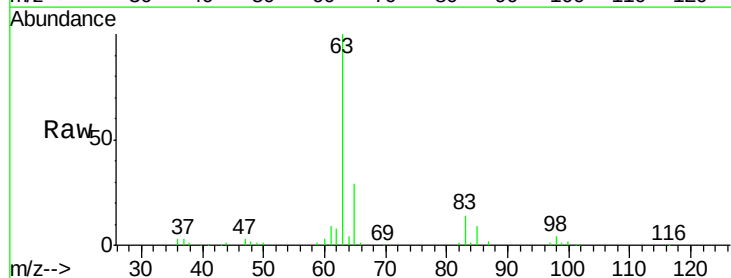
RT: 3.99 min Scan# 383

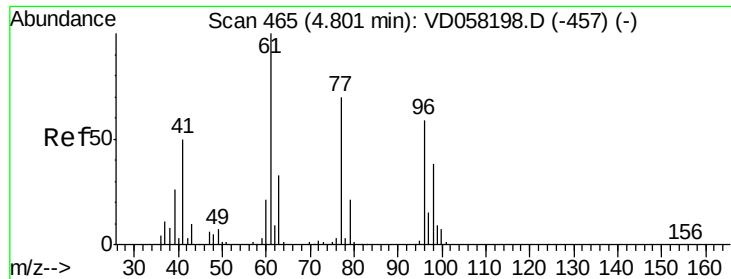
Delta R.T. 0.03 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Tgt Ion:	63	Resp:	730642
Ion	Ratio	Lower	Upper
63	100		
98	4.4	1.9	5.7
100	2.3	1.3	3.9





#27

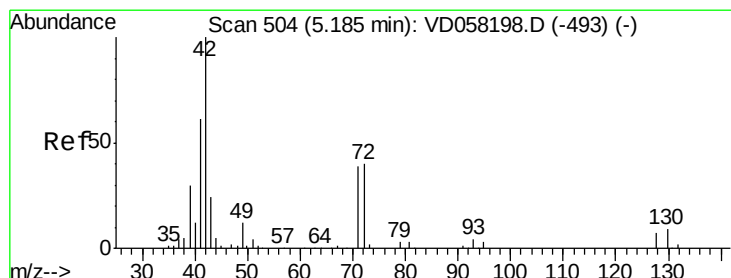
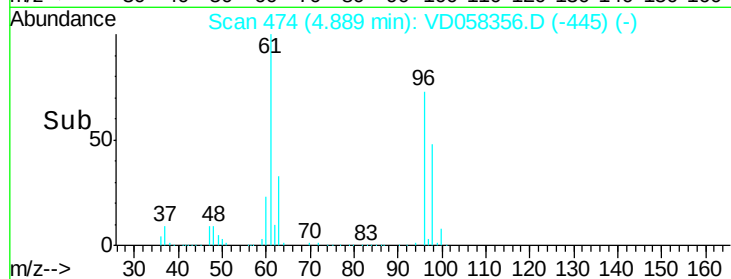
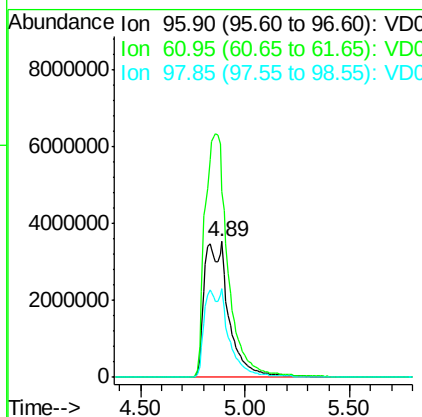
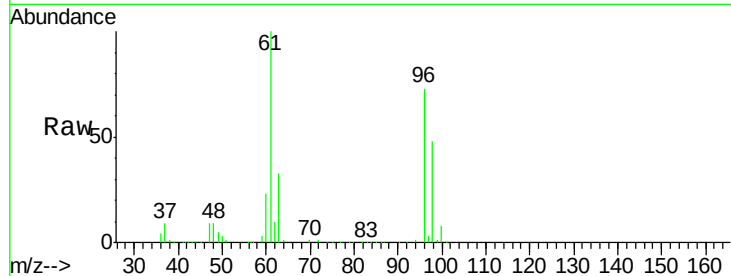
cis-1,2-Dichloroethene
 Concen: 3724.35 ug/l m
 RT: 4.89 min Scan# 474
 Delta R.T. 0.09 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-19-21-180621

Tot Ion: 96 Resp: 28936916
 Ion Ratio Lower Upper
 96 100
 61 137.1 0.0 338.6
 98 65.6 0.0 130.2

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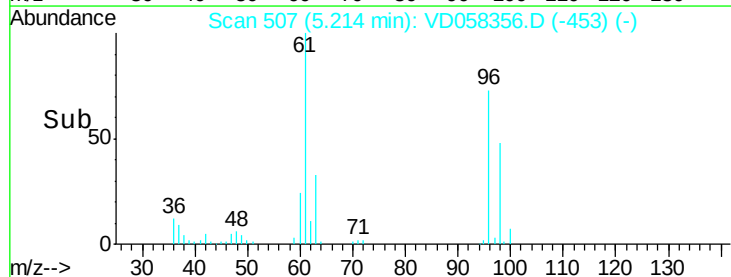
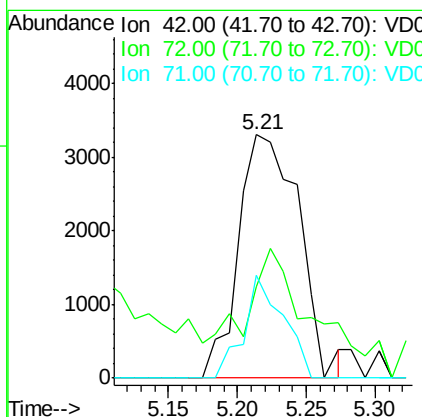
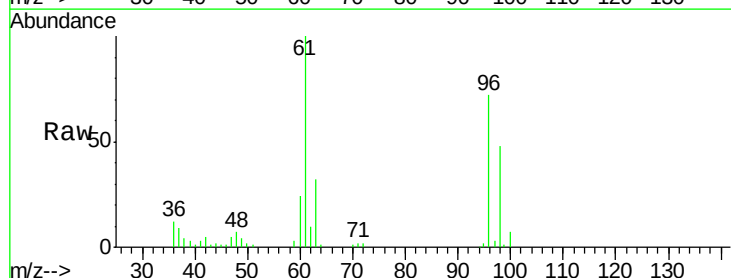
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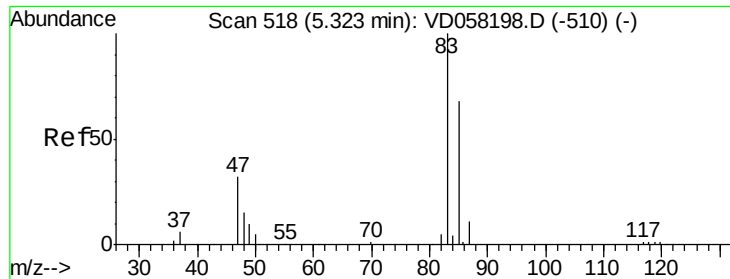


#29

Tetrahydrofuran
 Concen: 7.59 ug/l
 RT: 5.21 min Scan# 507
 Delta R.T. 0.03 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Tgt Ion: 42 Resp: 10072
 Ion Ratio Lower Upper
 42 100
 72 0.0 30.2 45.2#
 71 27.5 30.1 45.1#





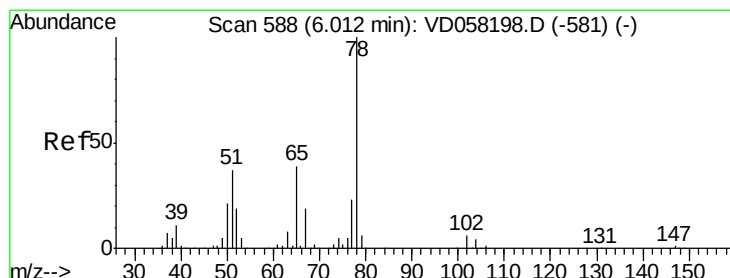
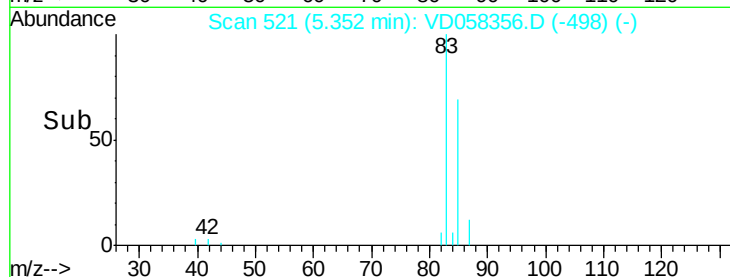
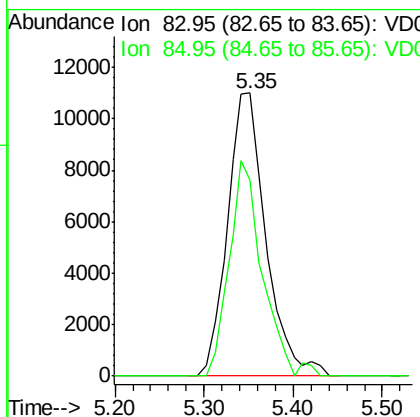
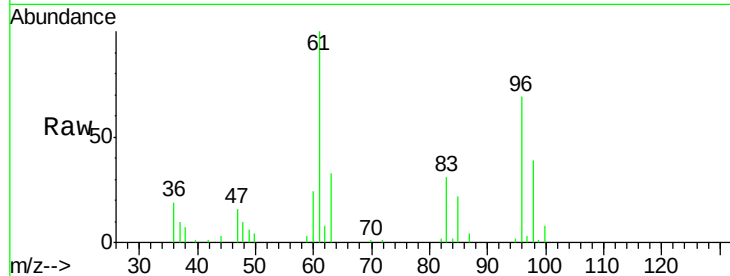
#30
Chloroform
Concen: 2.21 ug/l
RT: 5.35 min Scan# 521
Delta R.T. 0.03 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-19-21-180621

Tot Ion: 83 Resp: 33110
Ion Ratio Lower Upper
83 100
85 69.1 54.8 82.2

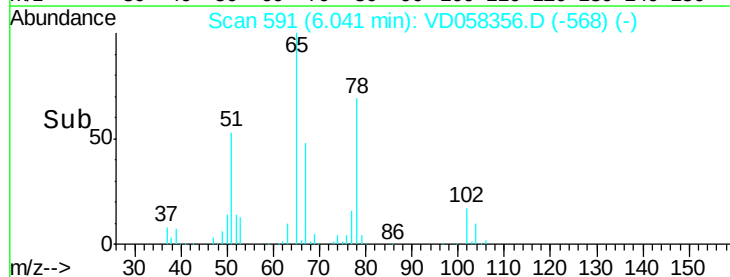
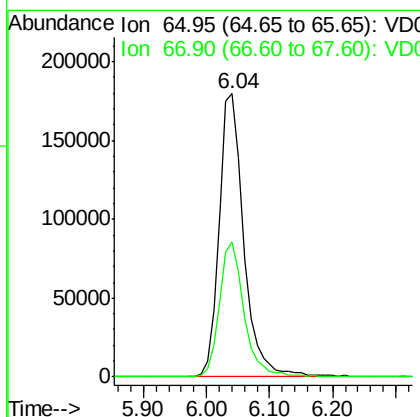
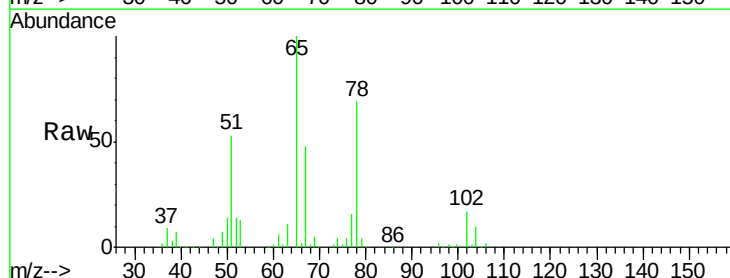
Manual Integrations
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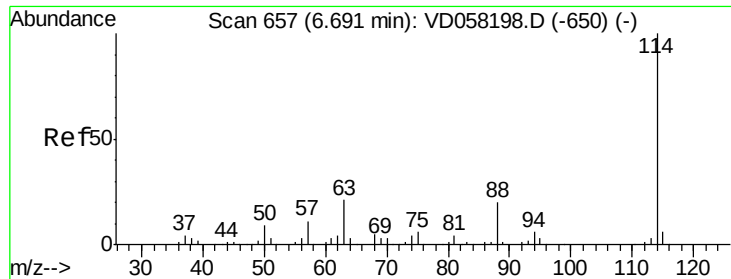
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#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.04 min Scan# 591
Delta R.T. 0.03 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Tgt Ion: 65 Resp: 491954
Ion Ratio Lower Upper
65 100
67 47.8 0.0 97.8





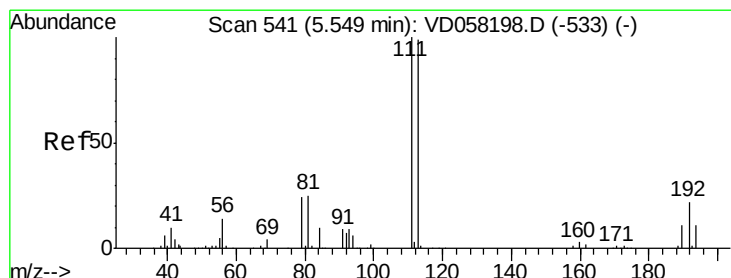
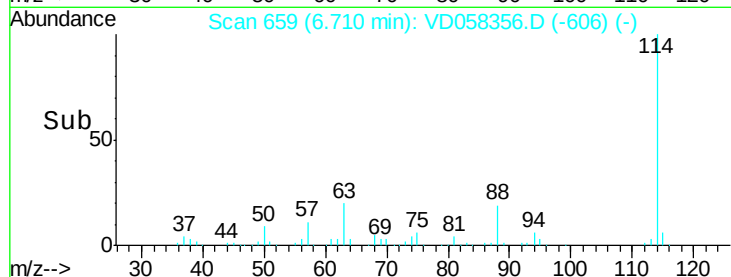
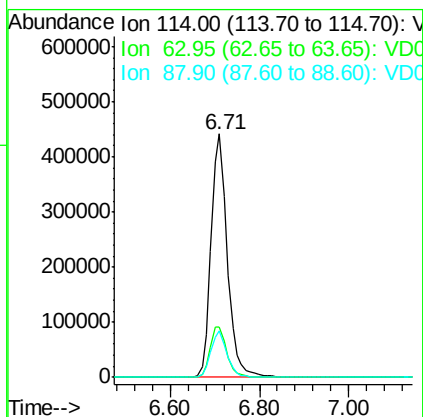
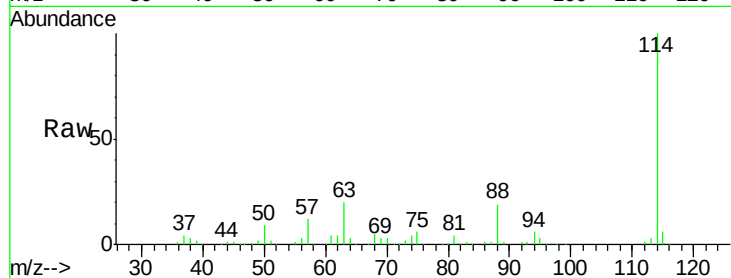
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-19-21-180621

Tot Ion:114 Resp: 1115204
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.6
 88 18.9 0.0 40.6

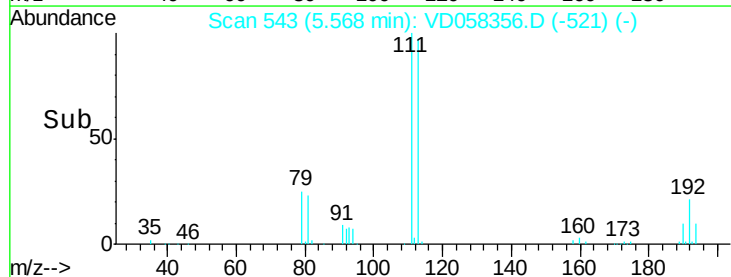
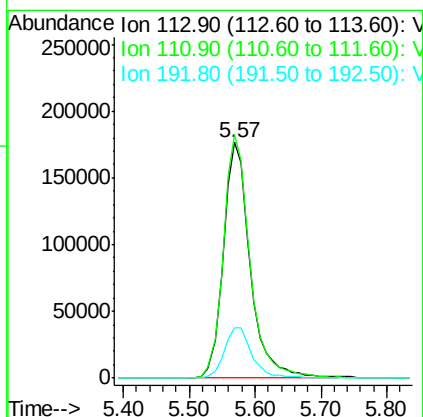
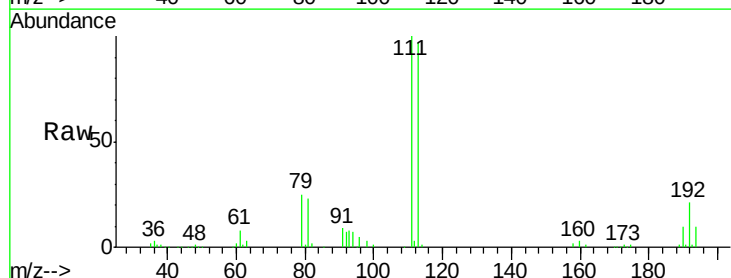
Manual Integrations
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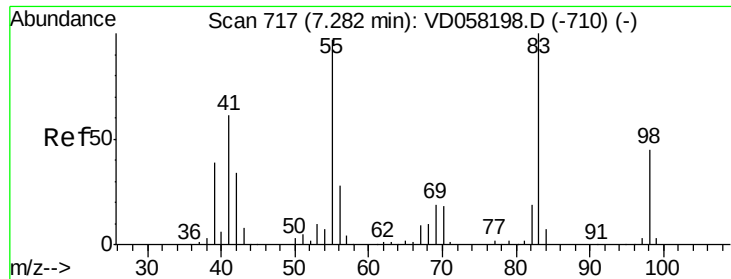
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#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Tgt Ion:113 Resp: 503178
 Ion Ratio Lower Upper
 113 100
 111 103.3 80.6 121.0
 192 21.3 17.8 26.6





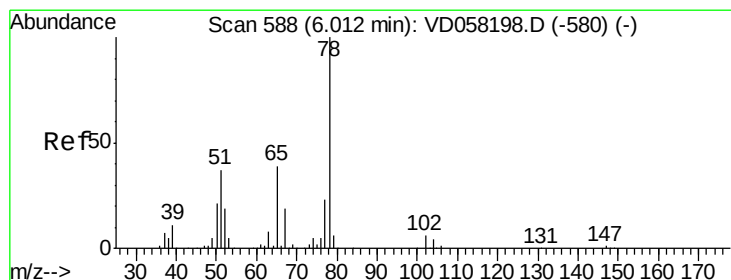
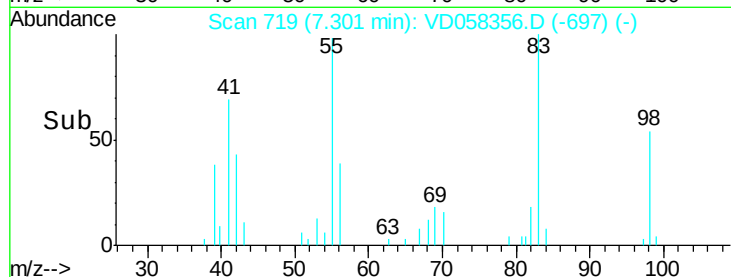
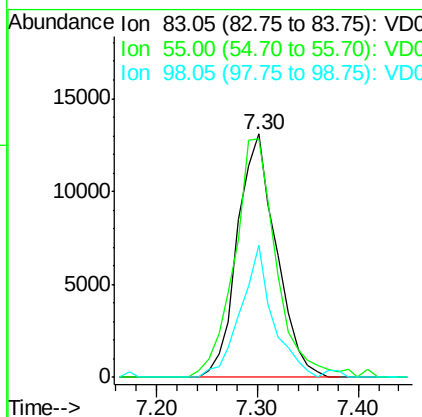
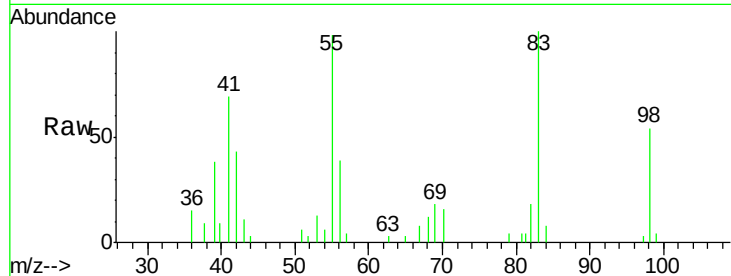
#39
Methylvlcyclohexane
Concen: 3.26 ug/l
RT: 7.30 min Scan# 719
Delta R.T. 0.02 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-19-21-180621

Tot Ion	Ratio	Lower	Upper
83	100		
55	97.8	77.4	116.2
98	54.3	35.9	53.9#

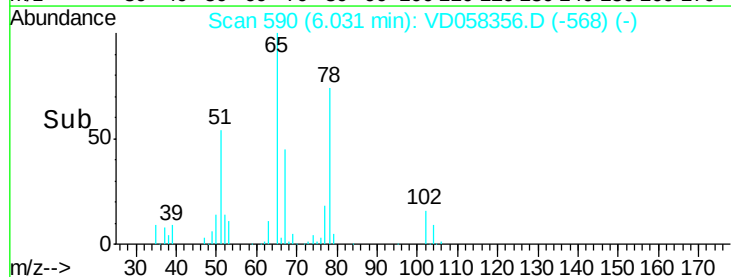
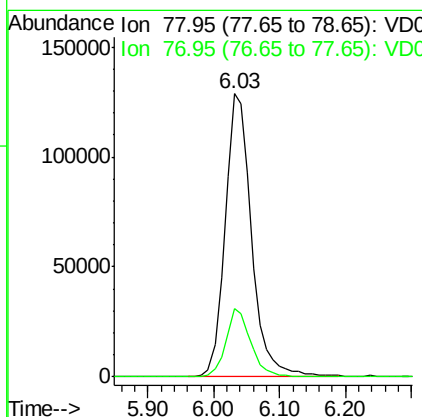
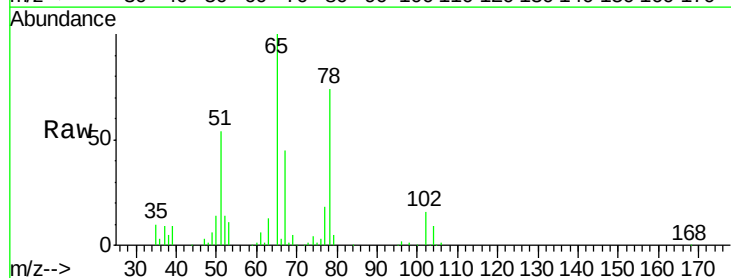
Manual Integrations
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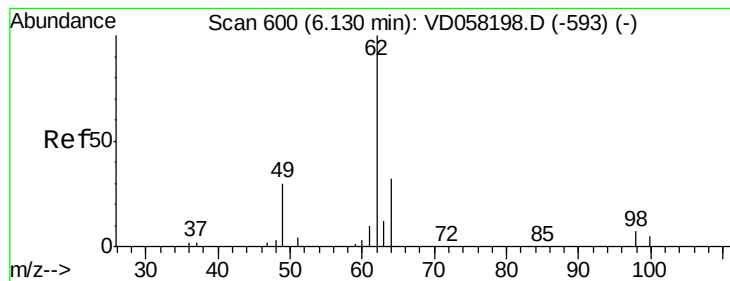
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#40
Benzene
Concen: 13.75 ug/l
RT: 6.03 min Scan# 590
Delta R.T. 0.02 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.5	27.7





#42

1,2-Dichloroethane

Concen: 4.47 ug/l

RT: 6.15 min Scan# 602

Delta R.T. 0.02 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion: 62 Resp: 47352

Ion Ratio Lower Upper

62 100

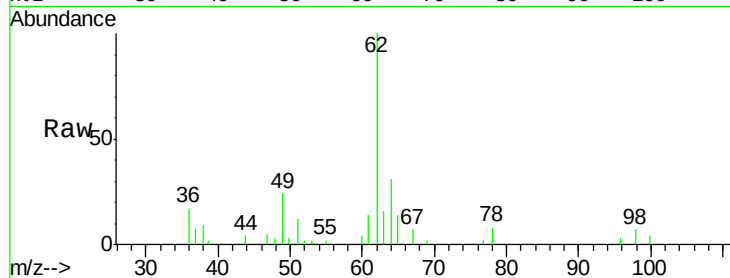
98 7.2 0.0 13.2

Manual Integrations

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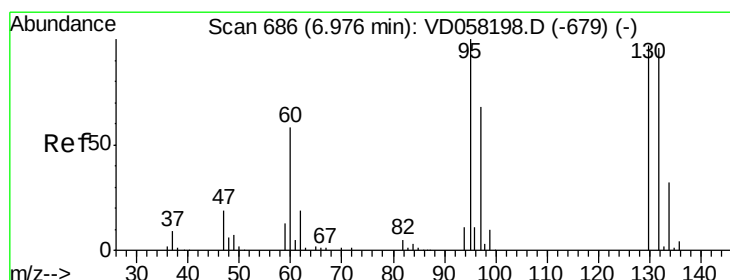
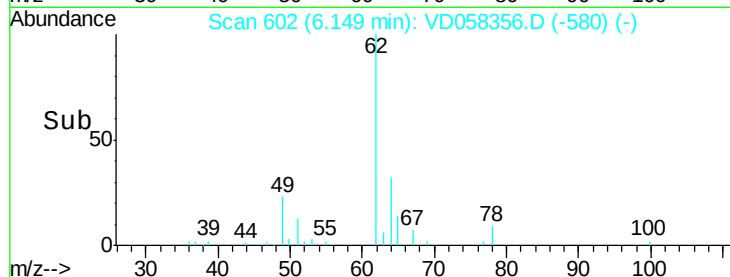
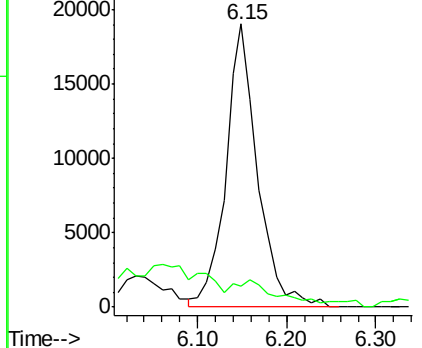
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Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#44

Trichloroethene

Concen: 41.96 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058356.D

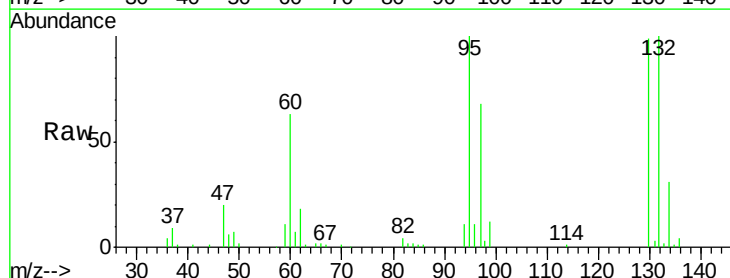
Acq: 23 Jun 2018 22:25

Tgt Ion:130 Resp: 331115

Ion Ratio Lower Upper

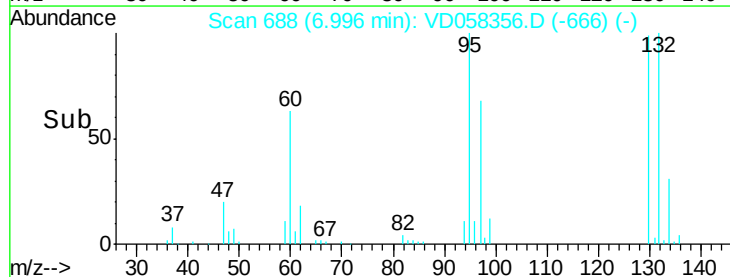
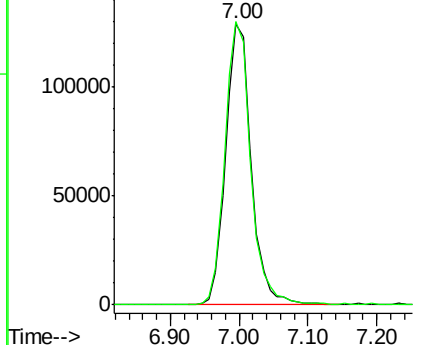
130 100

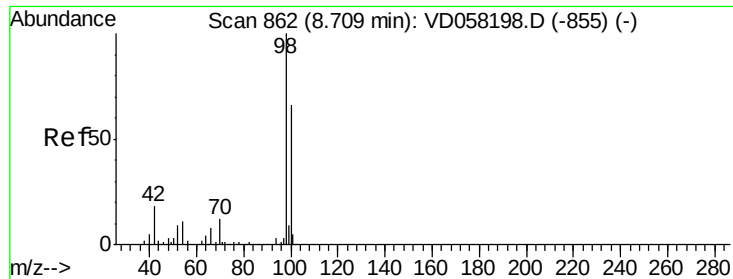
95 100.7 0.0 205.6



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. 0.01 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion: 98 Resp: 1182249

Ion Ratio Lower Upper

98 100

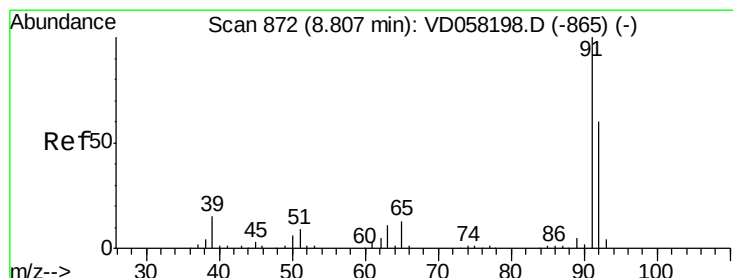
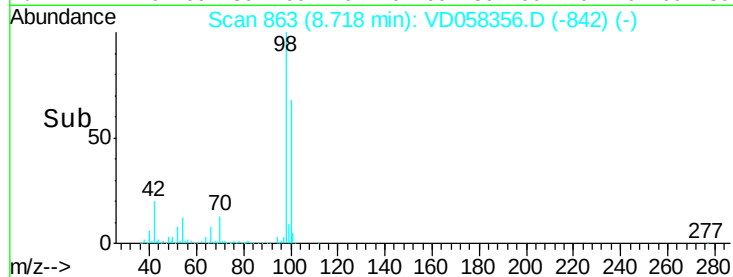
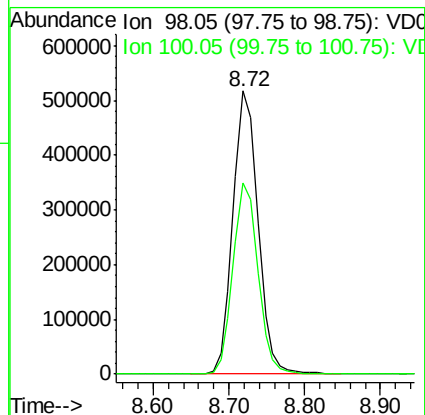
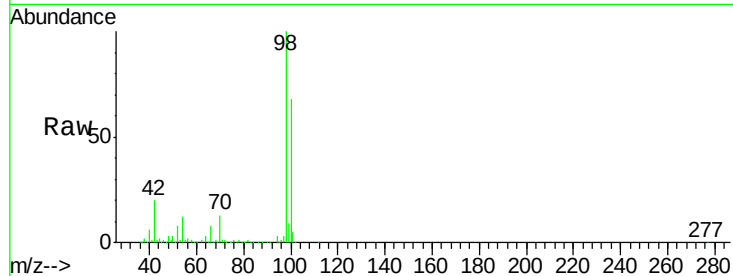
100 67.5 53.6 80.4

Manual Integrations

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#52

Toluene

Concen: 9.64 ug/l

RT: 8.82 min Scan# 873

Delta R.T. 0.01 min

Lab File: VD058356.D

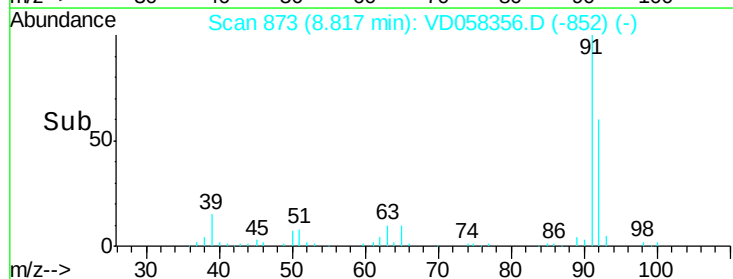
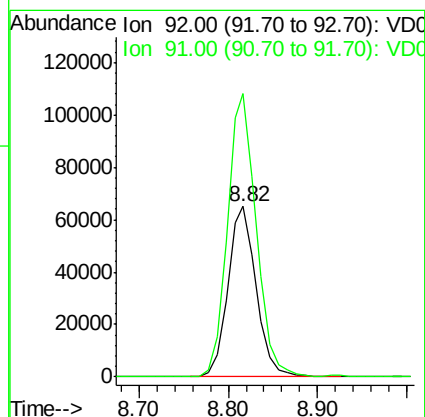
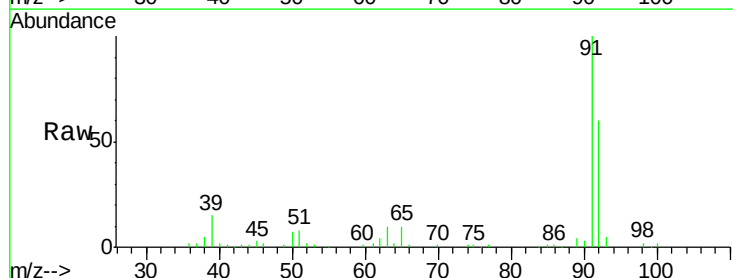
Acq: 23 Jun 2018 22:25

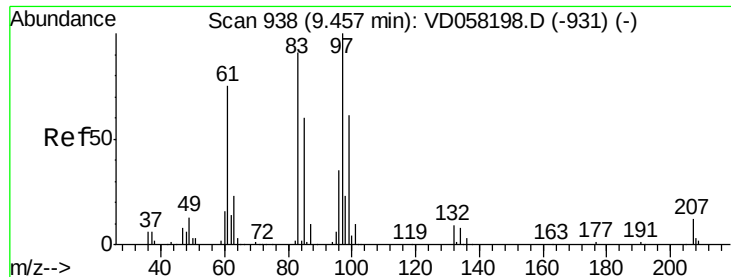
Tgt Ion: 92 Resp: 144232

Ion Ratio Lower Upper

92 100

91 166.3 133.2 199.8





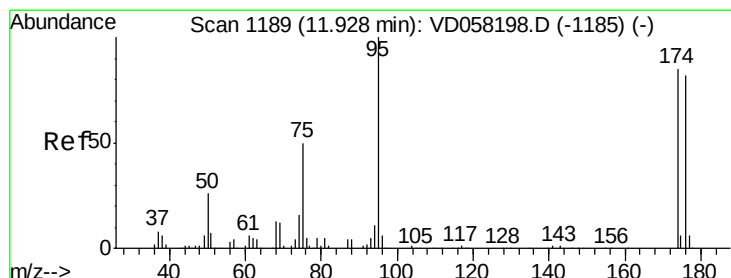
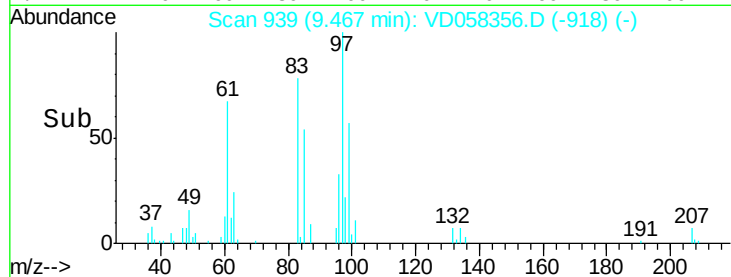
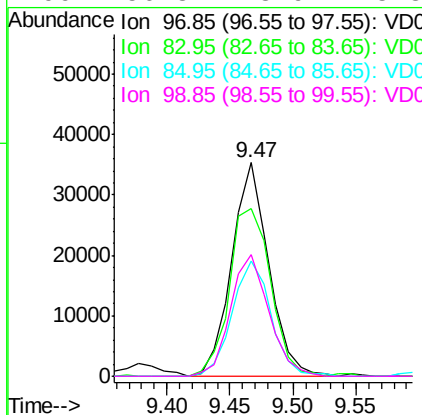
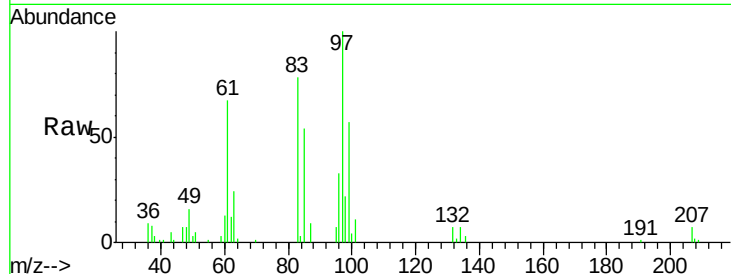
#55
 1,1,2-Trichloroethane
 Concen: 13.57 ug/l
 RT: 9.47 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-19-21-180621

Tot Ion:	97	Resp:	71822
Ion	Ratio	Lower	Upper
97	100		
83	78.3	72.9	109.3
85	53.8	48.2	72.4
99	56.8	48.9	73.3

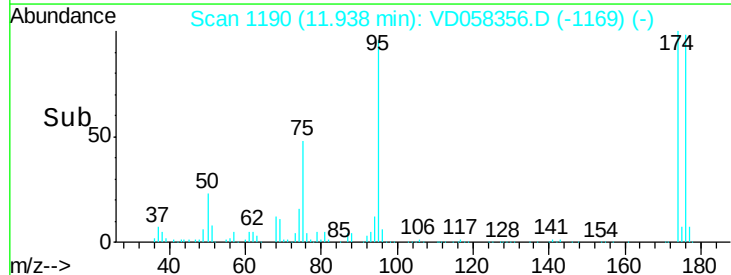
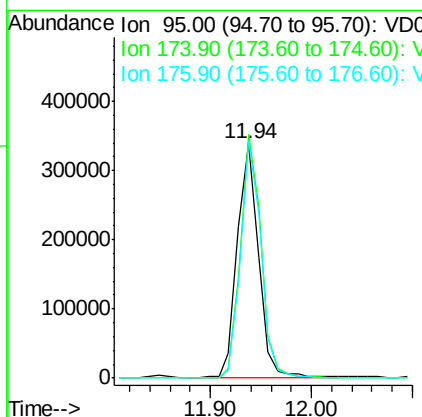
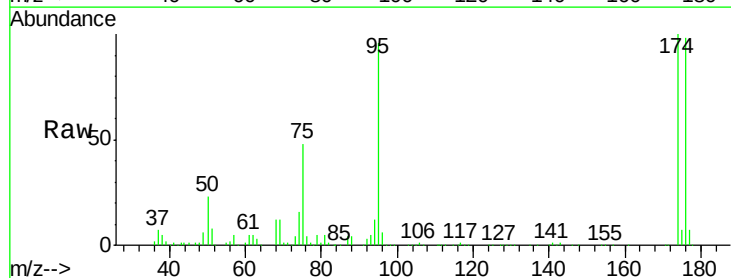
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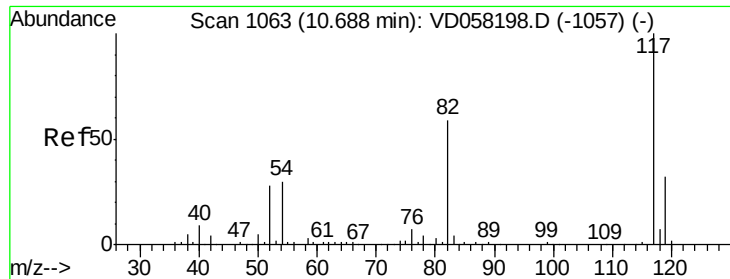
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#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 11.94 min Scan# 1190
 Delta R.T. 0.01 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Tgt Ion:	95	Resp:	497101
Ion	Ratio	Lower	Upper
95	100		
174	103.9	0.0	170.2
176	101.4	0.0	164.6





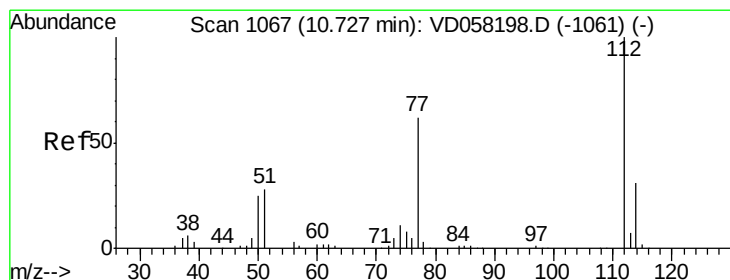
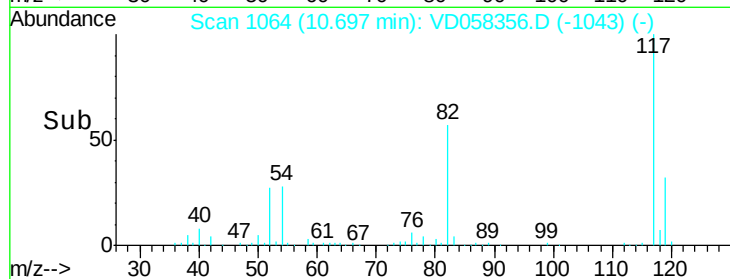
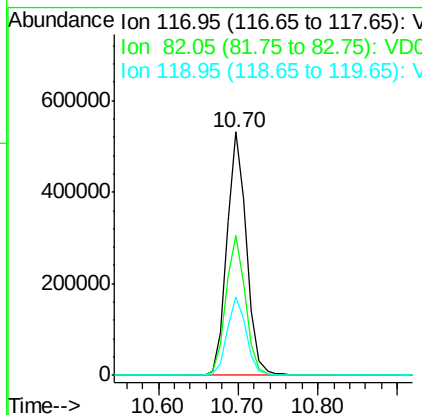
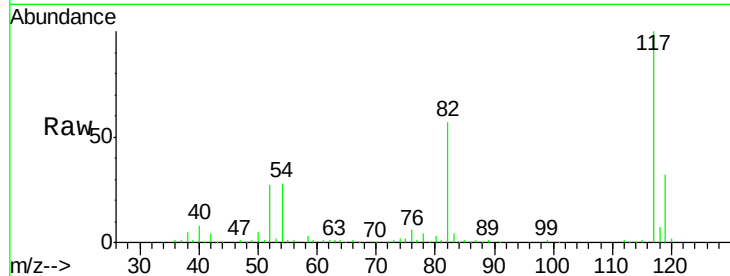
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-19-21-180621

Tot Ion:117 Resp: 918035
Ion Ratio Lower Upper
117 100
82 57.4 47.0 70.6
119 32.0 25.3 37.9

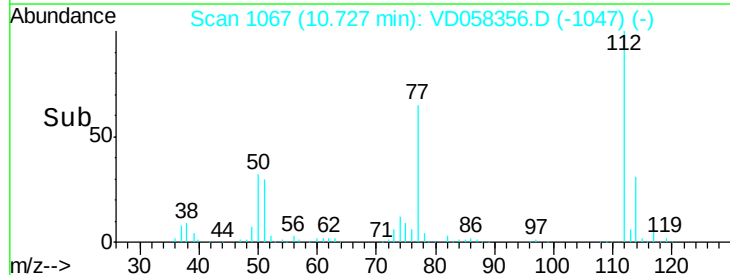
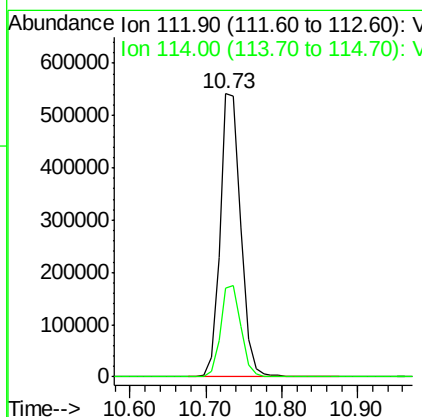
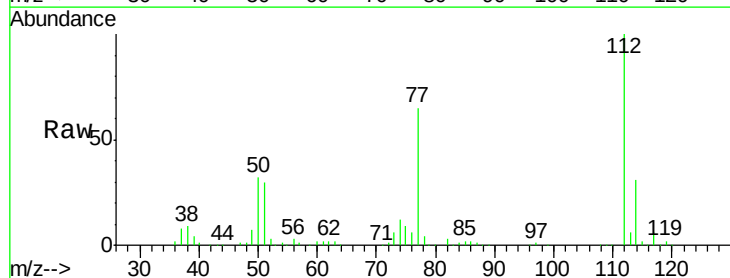
Manual Integrations
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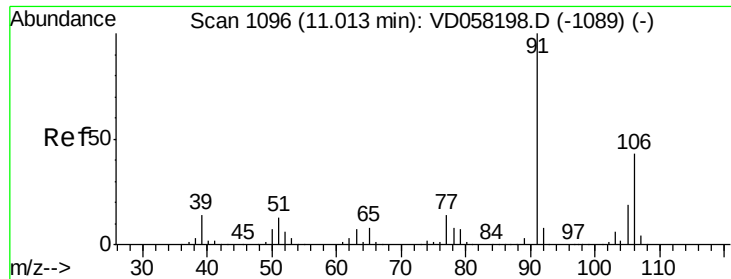
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#65
Chlorobenzene
Concen: 60.01 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Tgt Ion:112 Resp: 1030471
Ion Ratio Lower Upper
112 100
114 31.2 25.0 37.4





#68

m/p-Xvlenes

Concen: 2.94 ug/l

RT: 11.02 min Scan# 1097

Delta R.T. 0.01 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion:106 Resp: 29716

Ion Ratio Lower Upper

106 100

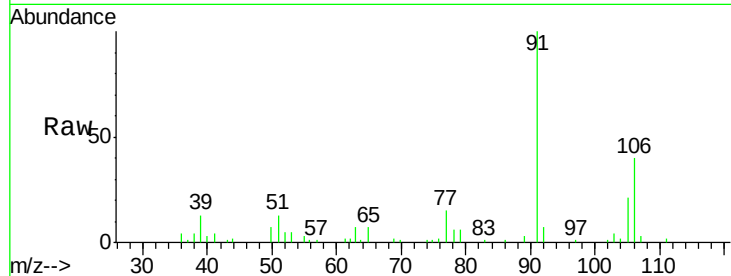
91 249.9 185.0 277.6

Manual Integrations

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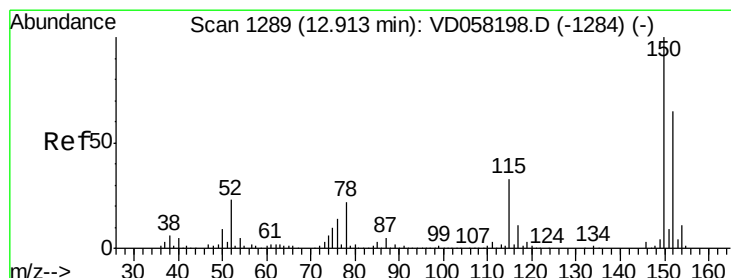
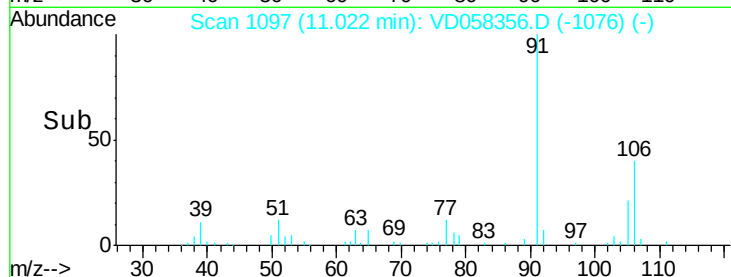
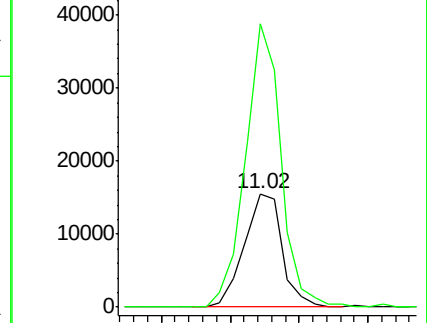
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Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

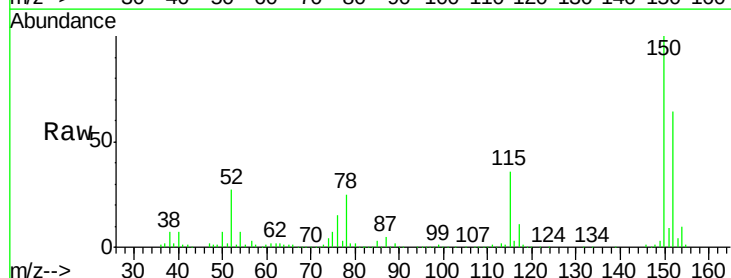
Tgt Ion:152 Resp: 460494

Ion Ratio Lower Upper

152 100

115 56.2 25.1 75.3

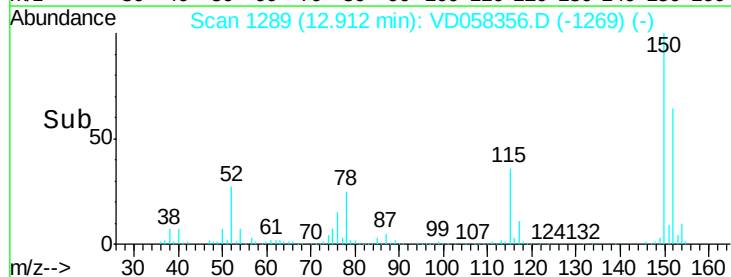
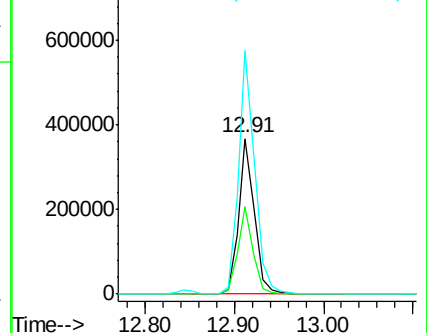
150 156.3 0.0 308.8

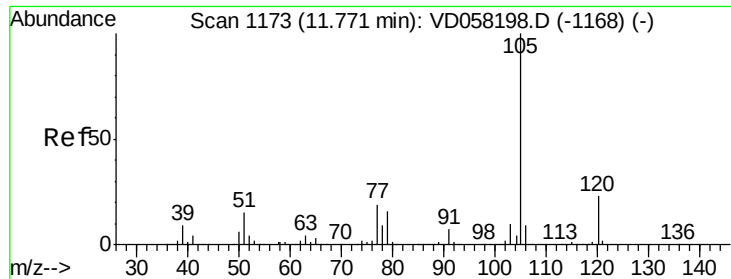


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.05 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058356.D

Acq: 23 Jun 2018 22:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB478-19-21-180621

Tot Ion:105 Resp: 28922

Ion Ratio Lower Upper

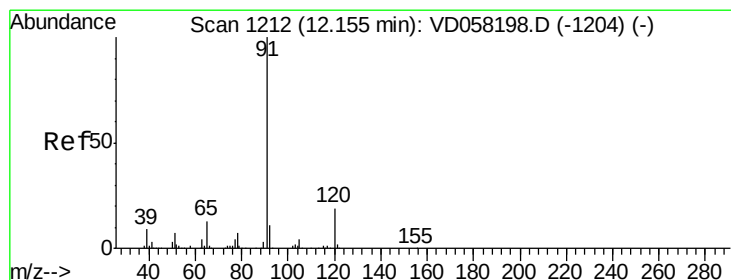
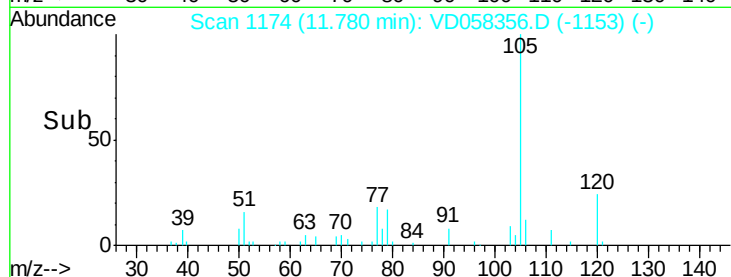
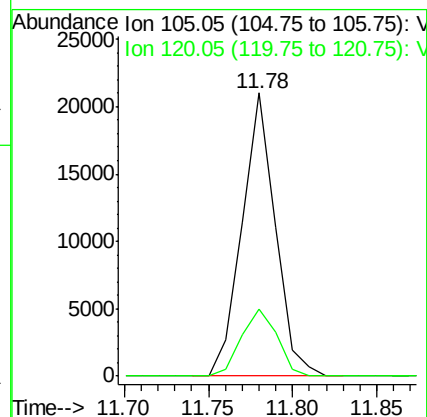
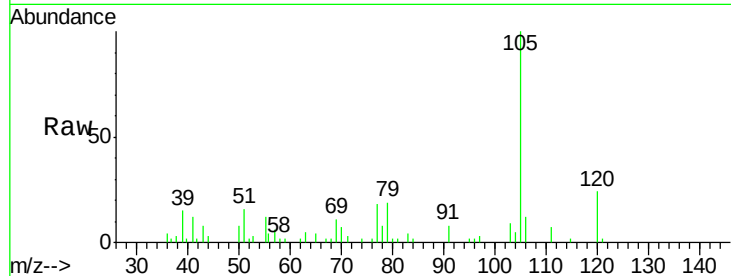
105 100

120 23.8 11.6 34.8

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#78

n-propylbenzene

Concen: 1.24 ug/l

RT: 12.15 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VD058356.D

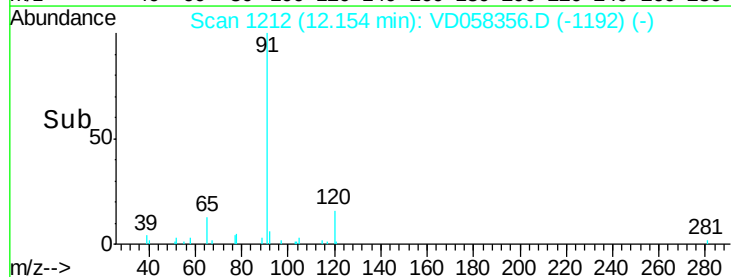
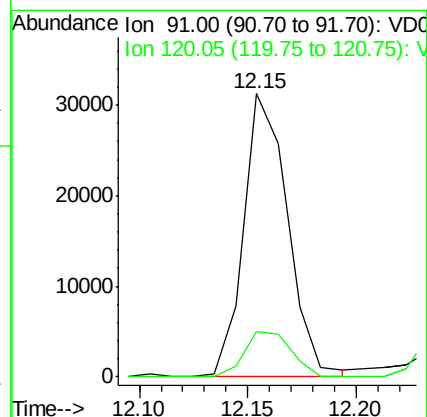
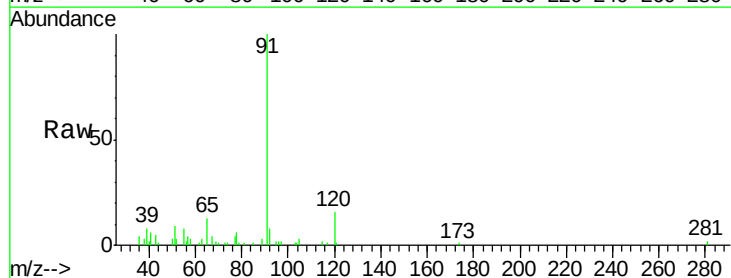
Acq: 23 Jun 2018 22:25

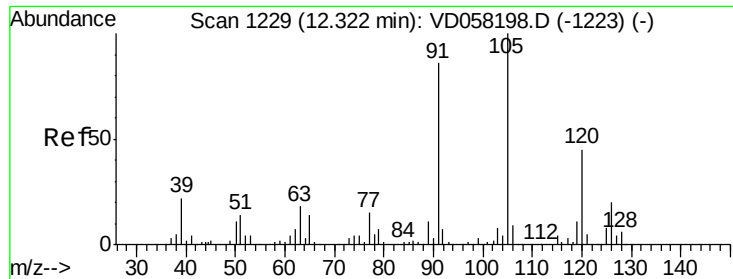
Tgt Ion: 91 Resp: 44072

Ion Ratio Lower Upper

91 100

120 15.8 9.7 29.1





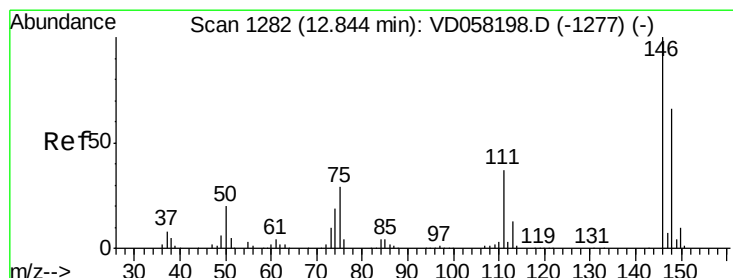
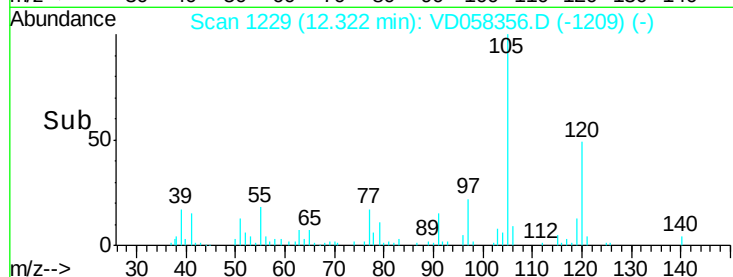
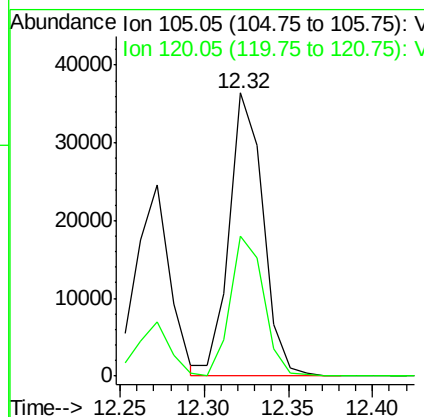
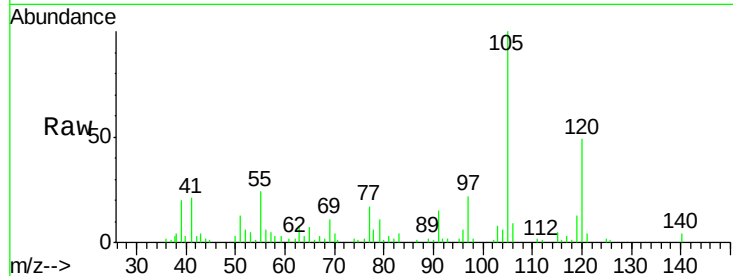
#80
 1,3,5-Trimethylbenzene
 Concen: 2.37 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-19-21-180621

Tot Ion:105 Resp: 50986
 Ion Ratio Lower Upper
 105 100
 120 49.3 22.5 67.5

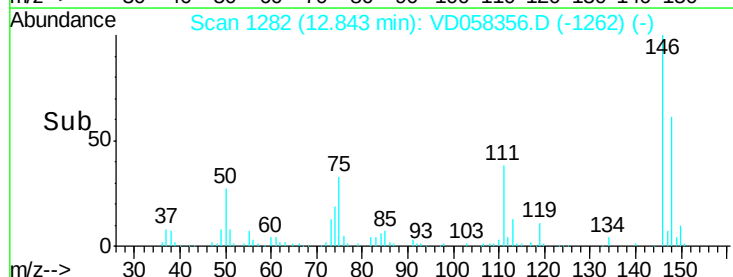
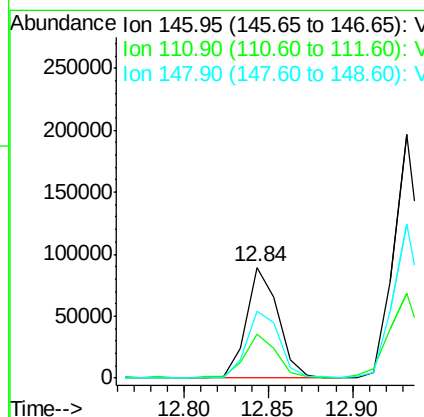
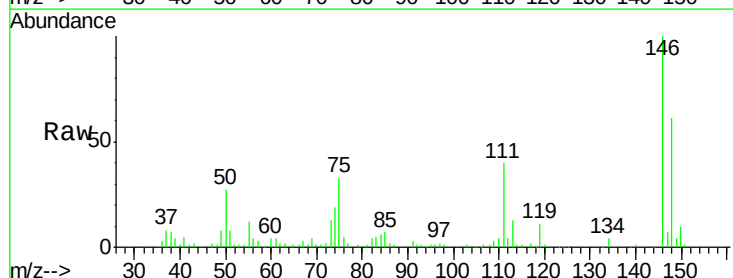
Manual Integrations
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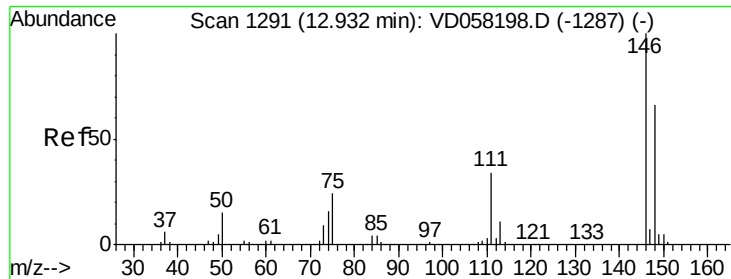
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#87
 1,3-Dichlorobenzene
 Concen: 8.20 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Tgt Ion:146 Resp: 117588
 Ion Ratio Lower Upper
 146 100
 111 39.5 18.4 55.0
 148 60.6 32.8 98.4





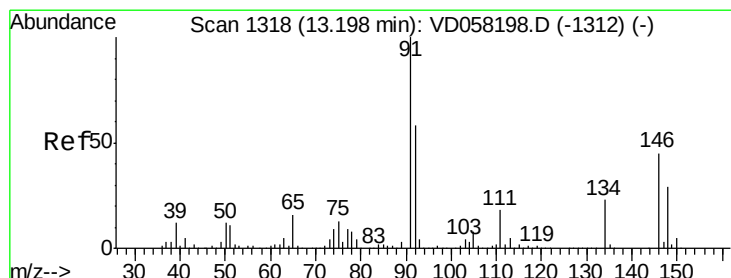
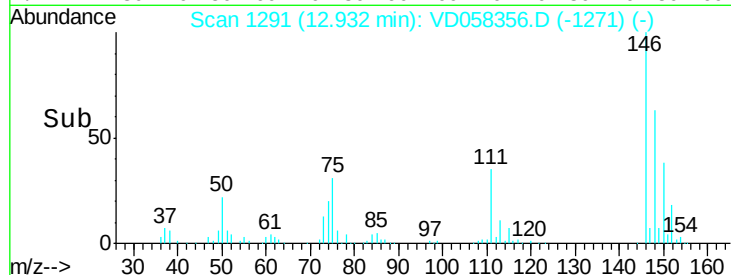
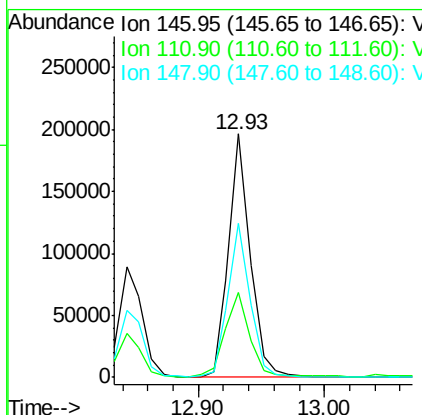
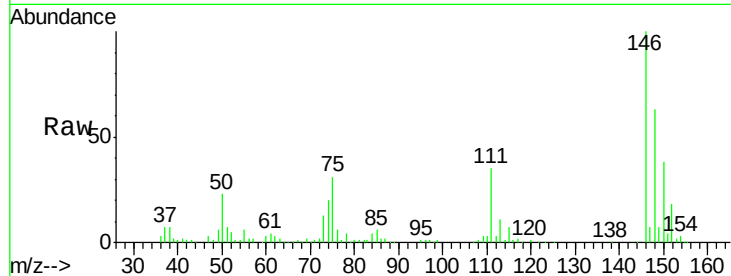
#88
 1,4-Dichlorobenzene
 Concen: 16.71 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. -0.00 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB478-19-21-180621

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.1	17.2	51.5
148	63.4	33.1	99.3

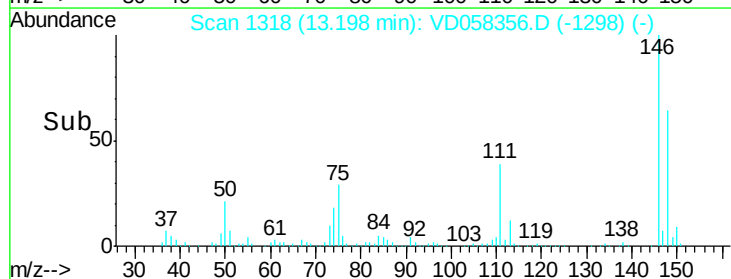
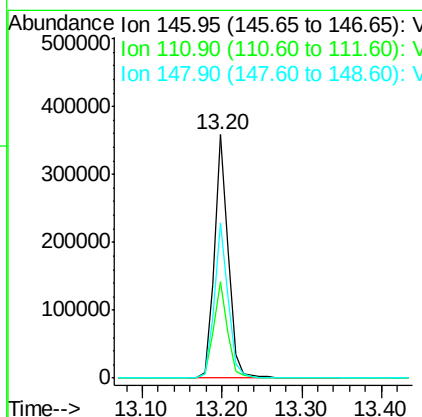
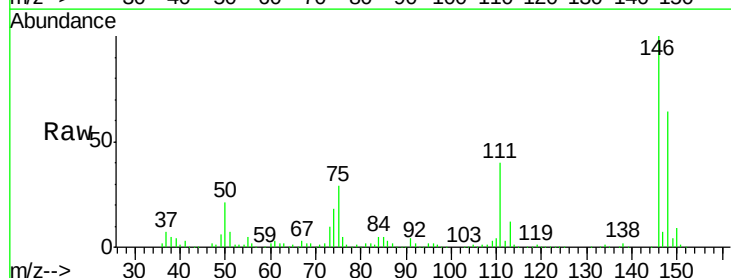
Manual Integrations
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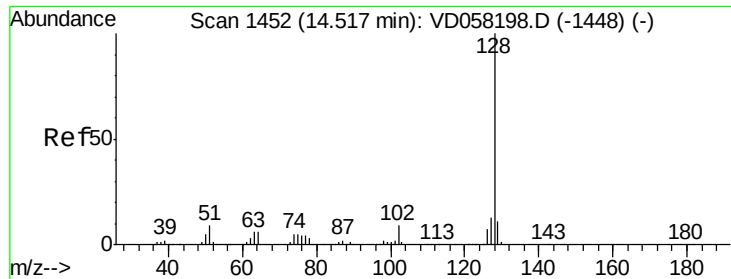
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#91
 1,2-Dichlorobenzene
 Concen: 36.30 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VD058356.D
 Acq: 23 Jun 2018 22:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.7
148	63.8	32.0	96.2





#95
Naphthalene
Concen: 1.05 ug/l
RT: 14.52 min Scan# 1452
Delta R.T. -0.00 min
Lab File: VD058356.D
Acq: 23 Jun 2018 22:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB478-19-21-180621

Tot Ion	Ratio	Resp	Lower	Upper
128	100	16096		
127	8.9	10.0	15.0#	
129	12.5	8.7	13.1	

Manual Integrations
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