

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058372.D
 Acq On : 24 Jun 2018 15:25
 Operator : VA/AP
 Sample : J3671-14
 Misc : 6.14g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

Manual Integrations
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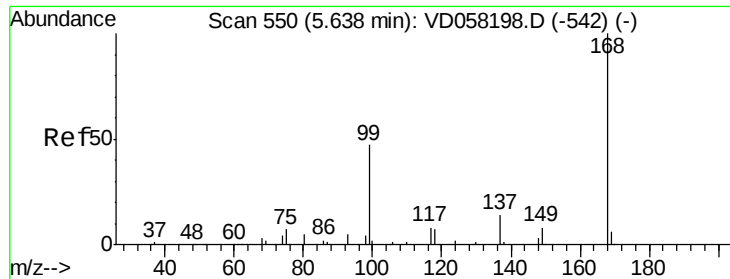
Quant Time: Jun 25 04:44:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	617476	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.71	114	828958	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.71	117	452592	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.93	152	131255m	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	369467	59.24	ug/l	0.01
Spiked Amount 50.000			Recovery =	118.48%		
35) Dibromofluoromethane	5.56	113	368949	54.68	ug/l	0.01
Spiked Amount 50.000			Recovery =	109.36%		
50) Toluene-d8	8.72	98	744380	45.60	ug/l	0.01
Spiked Amount 50.000			Recovery =	91.20%		
62) 4-Bromofluorobenzene	11.94	95	314718	47.20	ug/l	0.01
Spiked Amount 50.000			Recovery =	94.40%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.61	43	194861	228.45	ug/l	94
20) Methylene Chloride	3.08	84	15132	2.24	ug/l	91
25) 2-Butanone	4.85	43	128394	69.06	ug/l	95
27) cis-1,2-Dichloroethene	4.83	96	137976	23.81	ug/l	75
39) Methylcyclohexane	7.30	83	224048	28.05	ug/l	98
40) Benzene	6.03	78	52993	2.71	ug/l	99
44) Trichloroethene	6.99	130	30187	5.15	ug/l	91
52) Toluene	8.81	92	49925	4.49	ug/l	94
65) Chlorobenzene	10.76	112	15293903	1806.52	ug/l	97
67) Ethyl Benzene	10.87	91	693607	46.41	ug/l	98
68) m/p-Xylenes	11.02	106	111693	22.41	ug/l	100
69) o-Xylene	11.42	106	237849	49.96	ug/l	98
73) Isopropylbenzene	11.79	105	886194	112.88	ug/l	99
78) n-propylbenzene	12.17	91	2728569	269.12	ug/l	98
80) 1,3,5-Trimethylbenzene	12.34	105	2025278	330.74	ug/l	93
83) tert-Butylbenzene	12.59	119	984087	139.78	ug/l	92
84) 1,2,4-Trimethylbenzene	12.65	105	3202193	481.07	ug/l	99
85) sec-Butylbenzene	12.78	105	2304829	279.30	ug/l #	79
86) p-Isopropyltoluene	12.92	119	1326271m	198.33	ug/l	
87) 1,3-Dichlorobenzene	12.86	146	898736m	219.94	ug/l	
88) 1,4-Dichlorobenzene	12.95	146	5948930	1490.87	ug/l	94
89) n-Butylbenzene	13.21	91	1366252m	194.40	ug/l	
91) 1,2-Dichlorobenzene	13.22	146	6159471	1771.32	ug/l	89
93) 1,2,4-Trichlorobenzene	14.35	180	590006	177.40	ug/l #	94
95) Naphthalene	14.53	128	11797320	2692.92	ug/l	95
96) 1,2,3-Trichlorobenzene	14.67	180	98423	33.80	ug/l #	75

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



#1

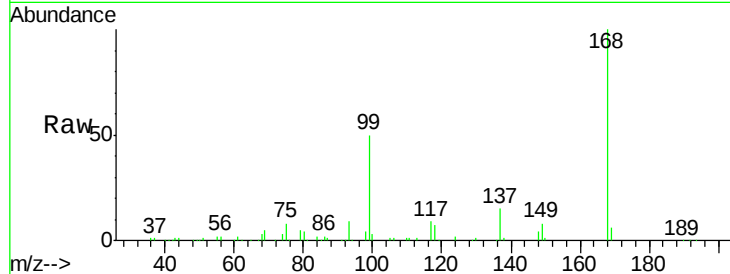
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 5.66 min Scan# 552
 Delta R.T. 0.02 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
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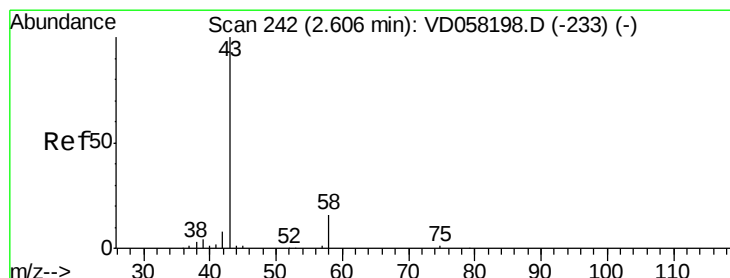
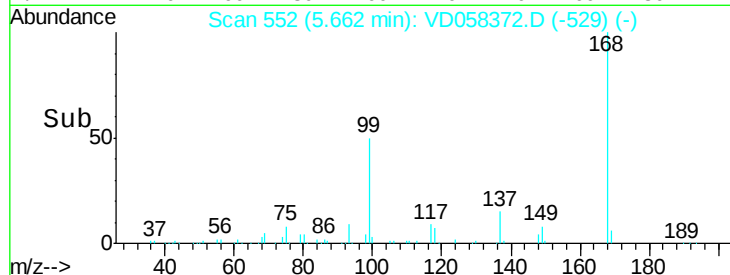
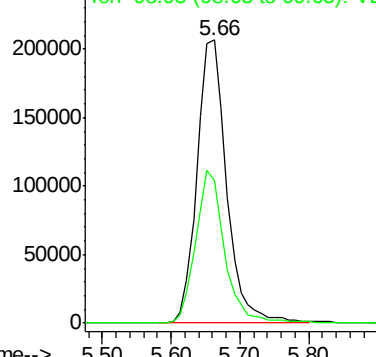
Tot Ion	Ratio	Lower	Upper
168	100		
99	50.4	41.1	61.7

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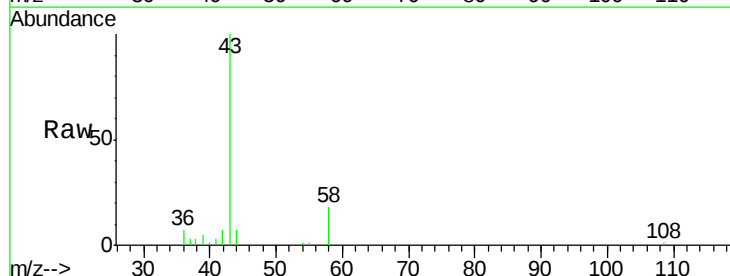
Abundance Ion 167.90 (167.60 to 168.60): V



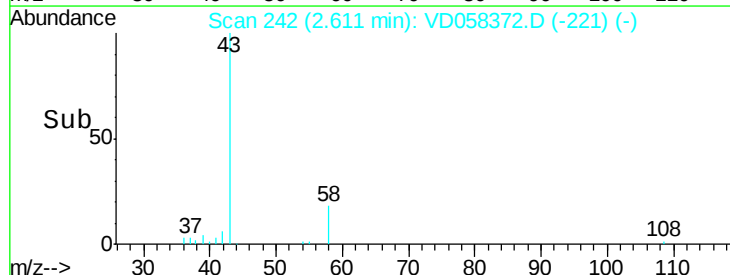
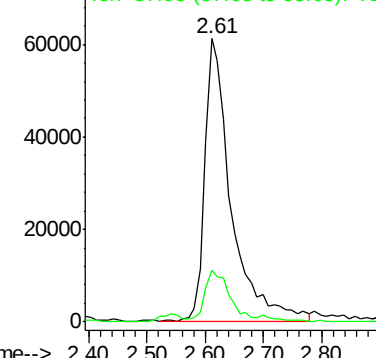
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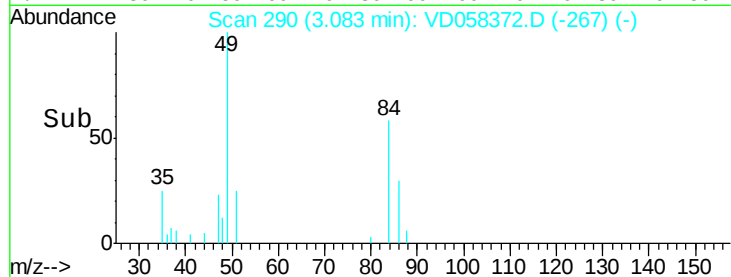
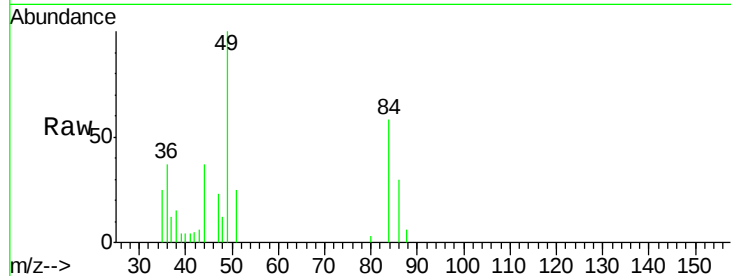
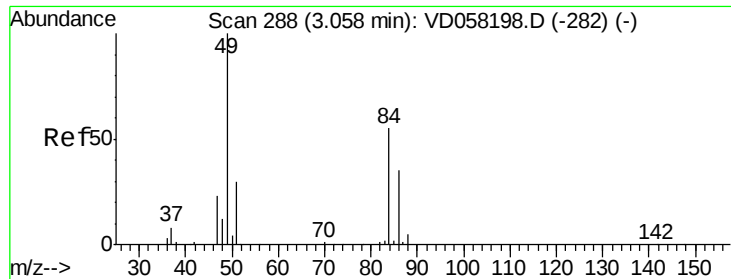
Acetone
 Concen: 228.45 ug/l
 RT: 2.61 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Lower	Upper
43	100		
58	18.3	12.7	19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC





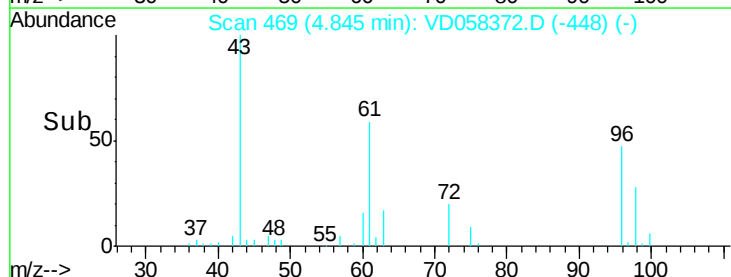
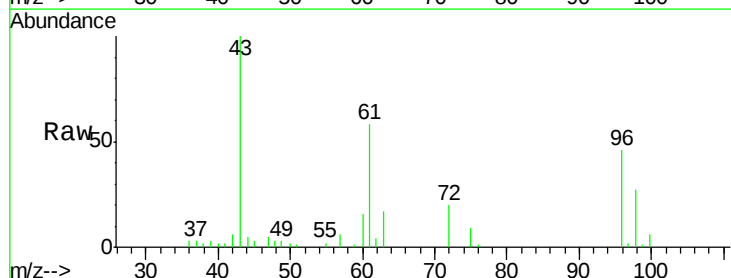
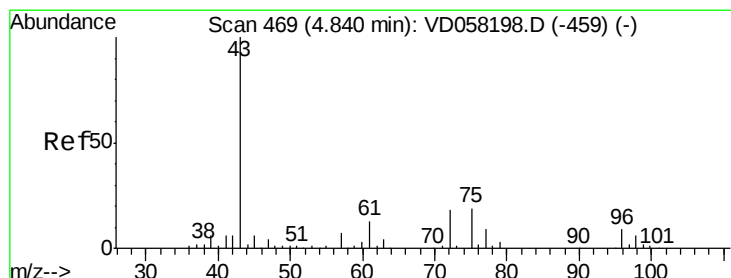
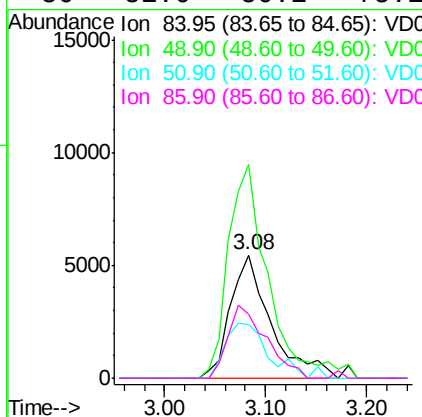
#20
Methvlene Chloride
Concen: 2.24 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.03 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tot Ion	Ratio	Lower	Upper
84	100		
49	173.8	145.0	217.6
51	43.8	42.9	64.3
86	51.6	50.1	75.1

Instrument :
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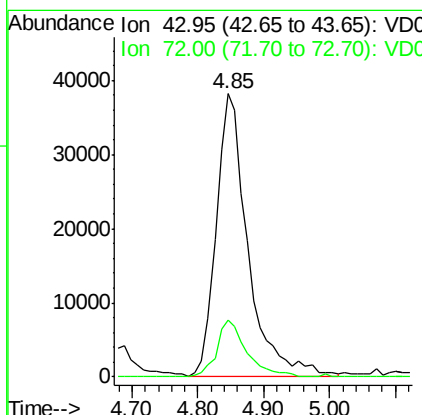
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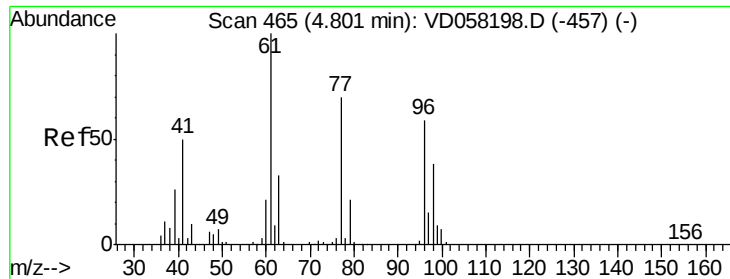
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#25
2-Butanone
Concen: 69.06 ug/l
RT: 4.85 min Scan# 469
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.9	14.1	21.1





#27

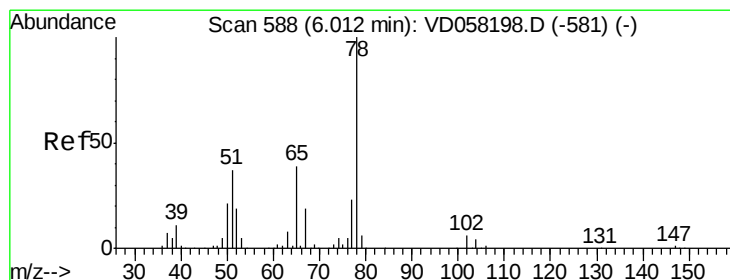
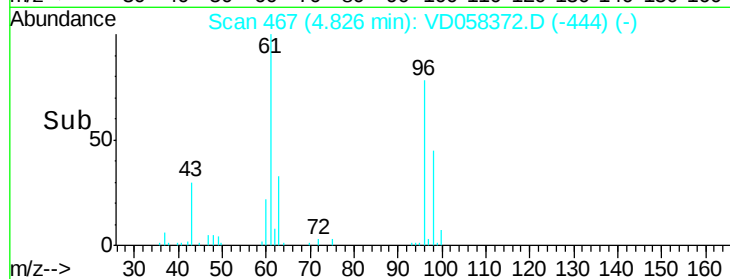
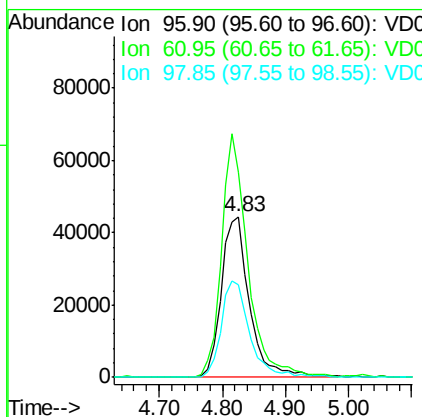
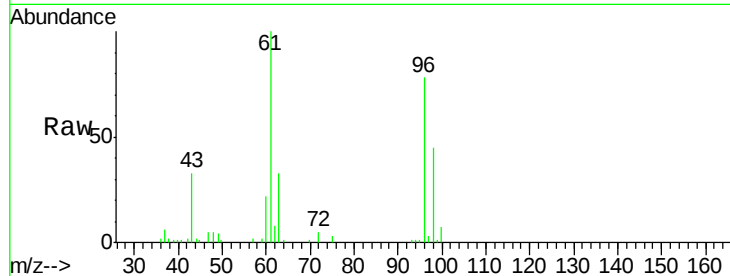
cis-1,2-Dichloroethene
 Concen: 23.81 ug/l
 RT: 4.83 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

Tot Ion	Ratio	Resp	Lower	Upper
96	100	137976		
61	127.9	0.0	338.6	
98	57.6	0.0	130.2	

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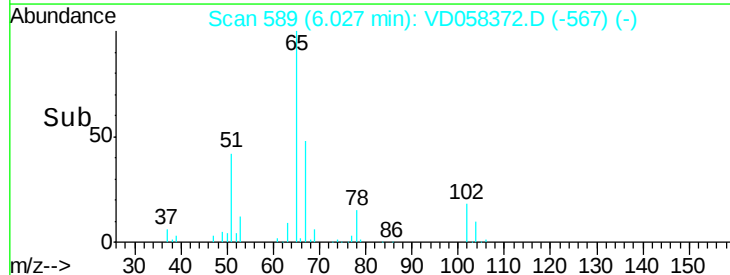
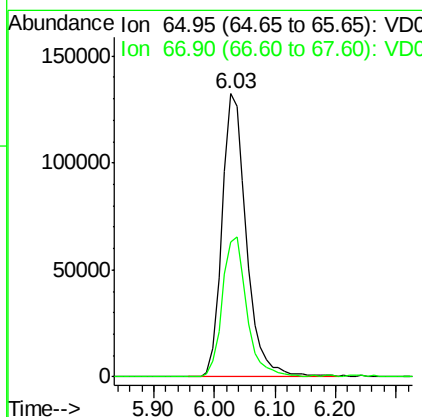
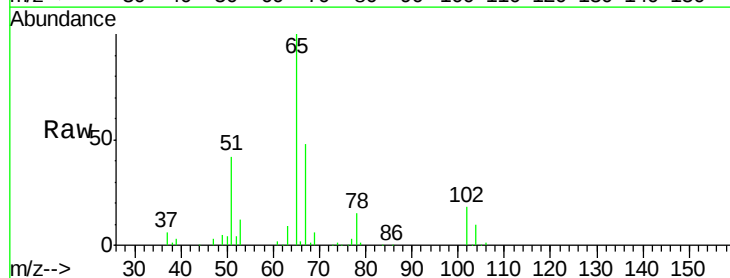
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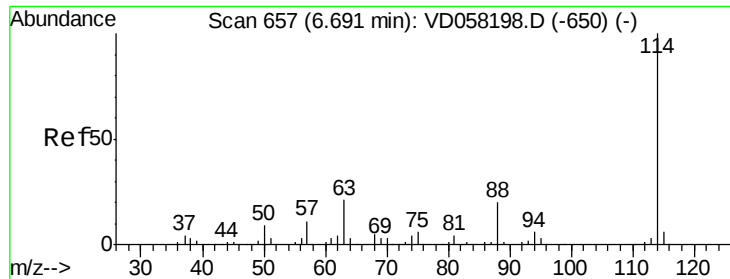


#33

1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 589
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	369467		
67	47.8	0.0	97.8	





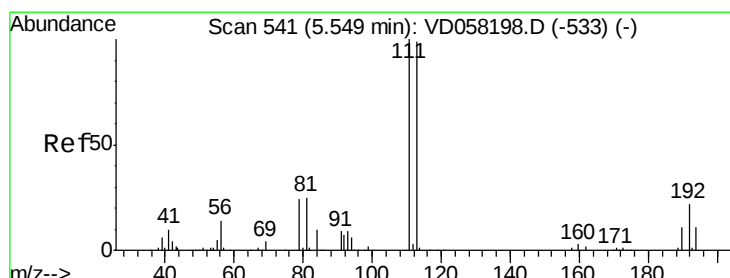
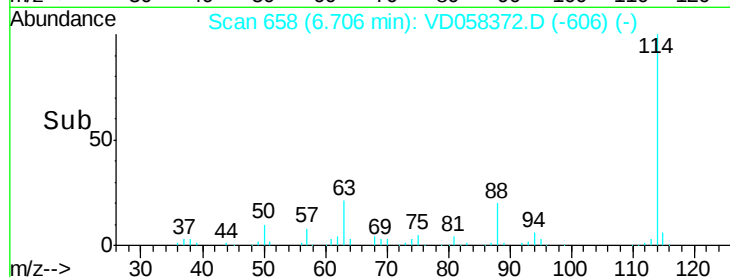
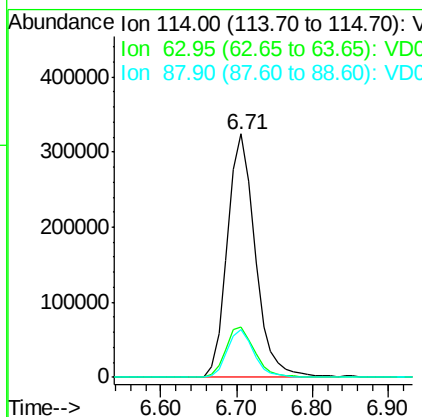
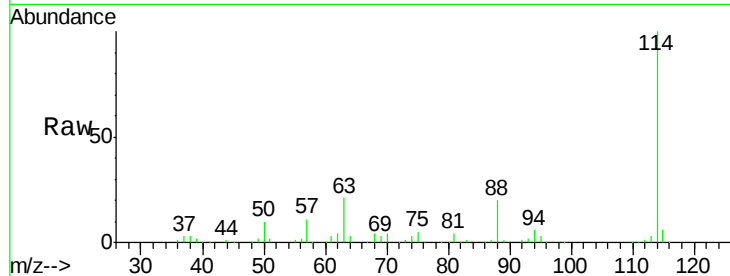
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
114	100	828958		
63	20.7		0.0	42.6
88	19.5		0.0	40.6

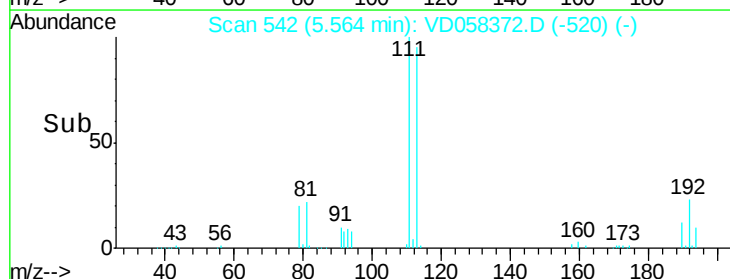
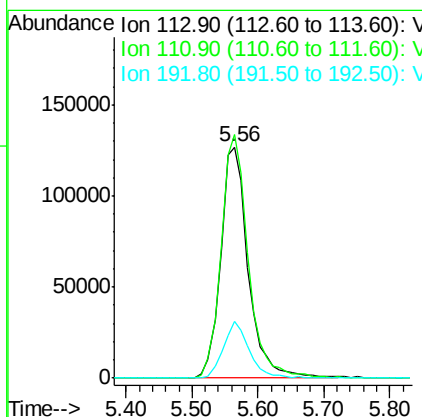
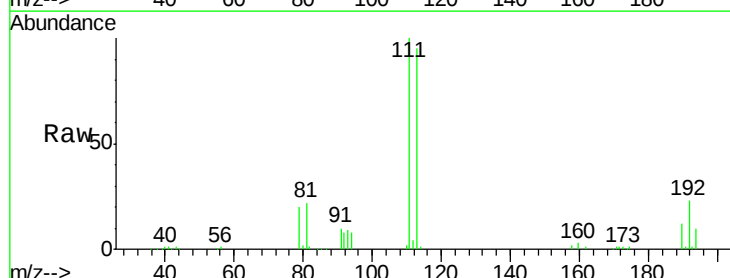
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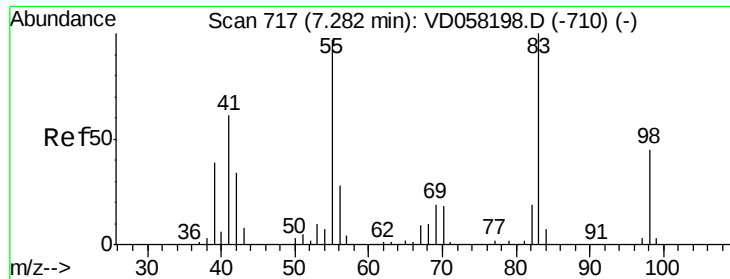
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#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	368949		
111	105.4		80.6	121.0
192	24.8		17.8	26.6





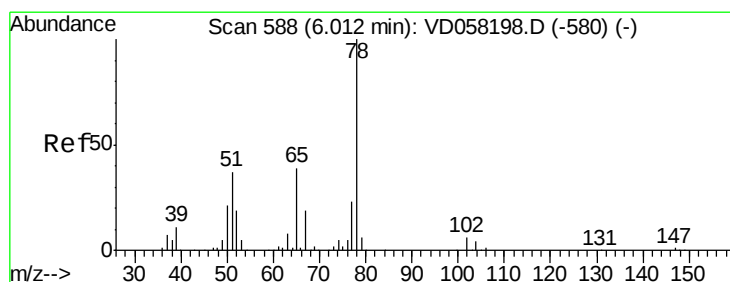
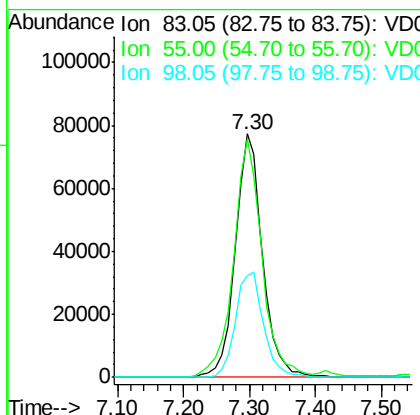
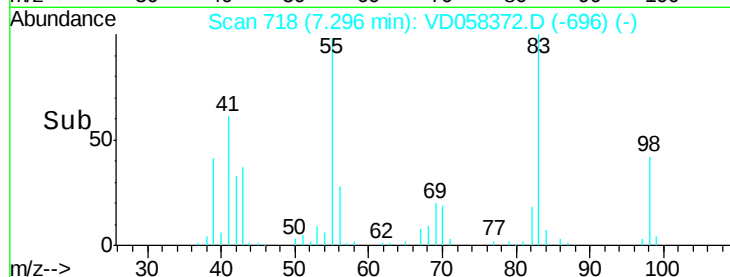
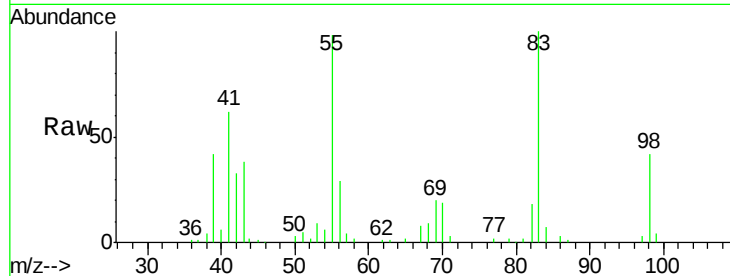
#39
Methylcyclohexane
Concen: 28.05 ug/l
RT: 7.30 min Scan# 718
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Instrument :
MSVOA_D
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
83	100		
55	98.0	77.4	116.2
98	42.0	35.9	53.9

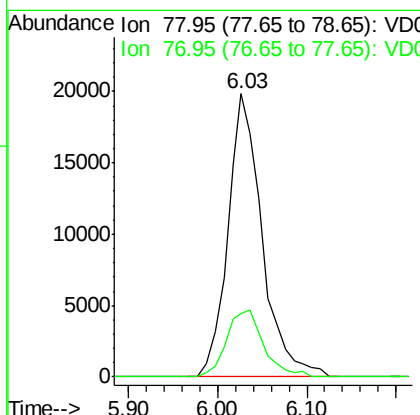
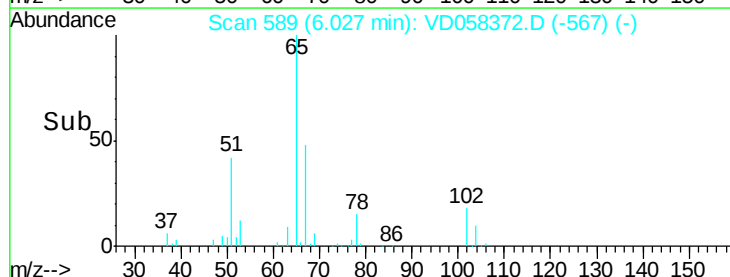
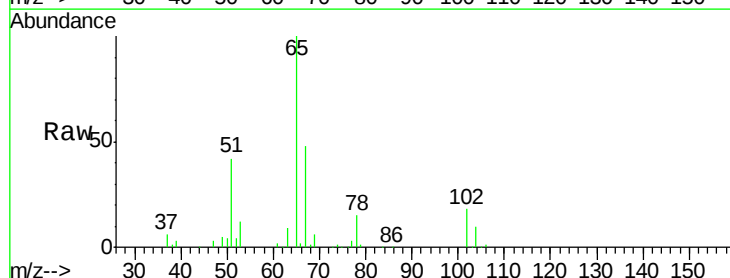
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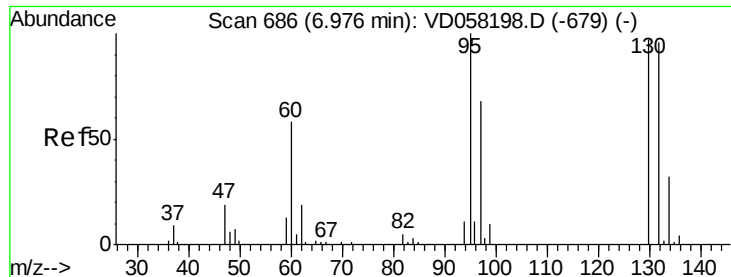
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#40
Benzene
Concen: 2.71 ug/l
RT: 6.03 min Scan# 589
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.5	27.7





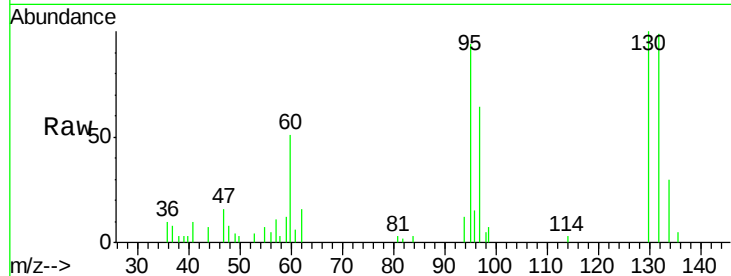
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 Trichloroethene
 Concen: 5.15 ug/l
 RT: 6.99 min Scan# 687
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

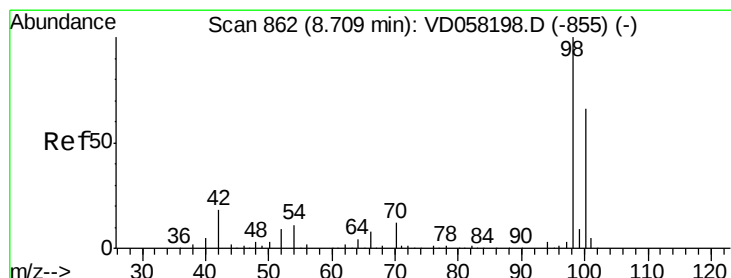
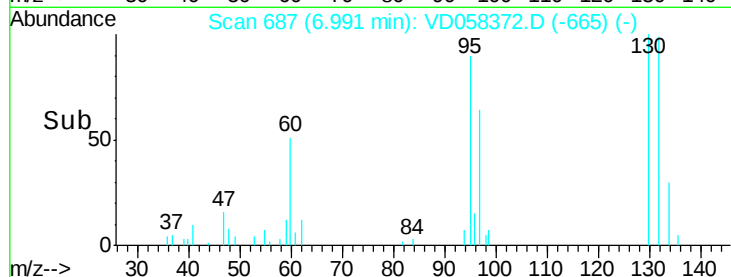
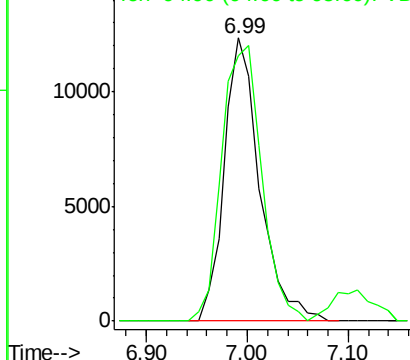
Tot Ion:130 Resp: 30187
 Ion Ratio Lower Upper
 130 100
 95 94.0 0.0 205.6

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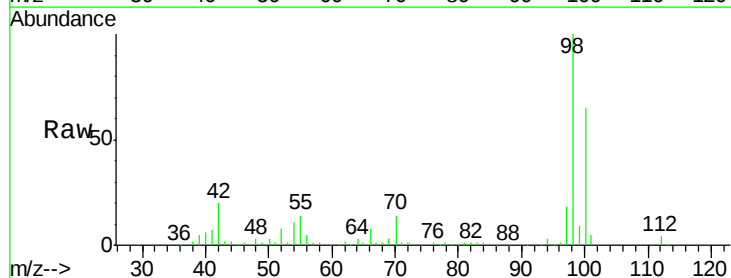


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VDC

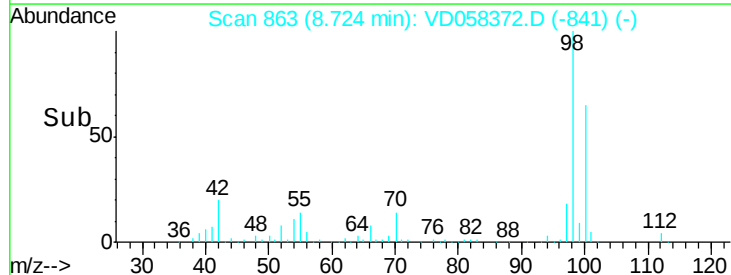
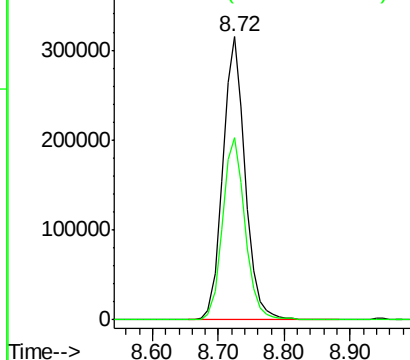


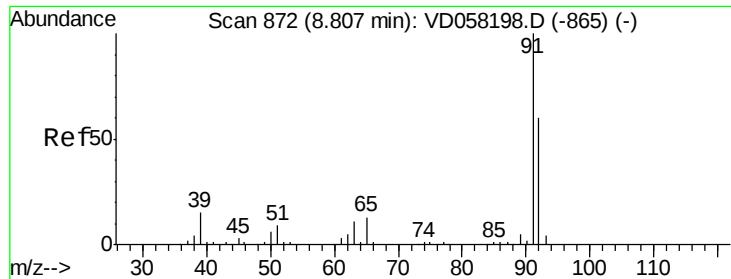
#50
 Toluene-d8
 Concen: N.D. ug/l
 RT: 8.72 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion: 98 Resp: 744380
 Ion Ratio Lower Upper
 98 100
 100 64.6 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: 4.49 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.01 min

Lab File: VD058372.D

Acq: 24 Jun 2018 15:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB481-9-11-180621

Tot Ion: 92 Resp: 49925

Ion Ratio Lower Upper

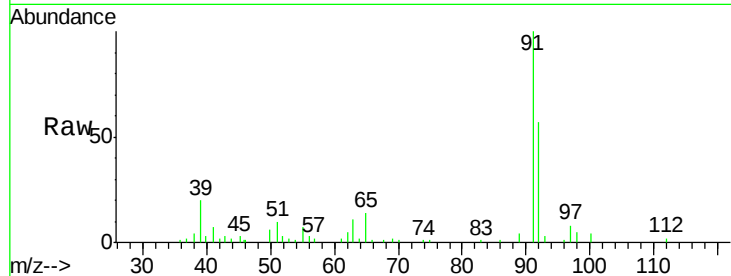
92 100

91 174.9 133.2 199.8

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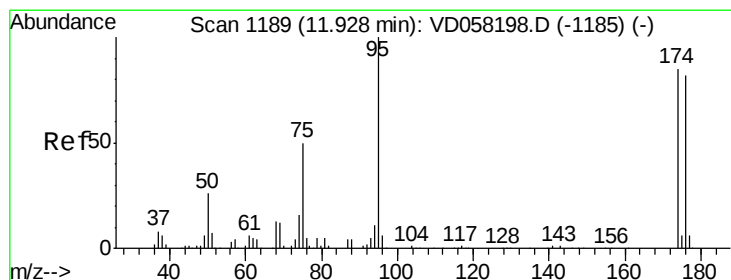
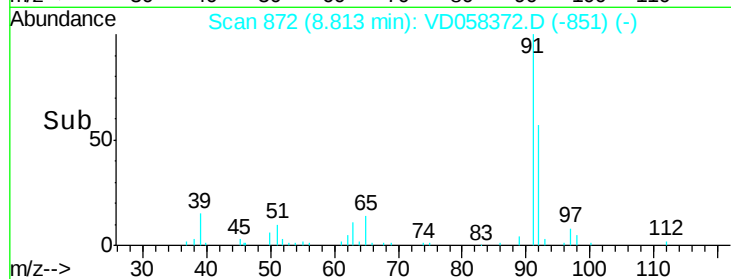
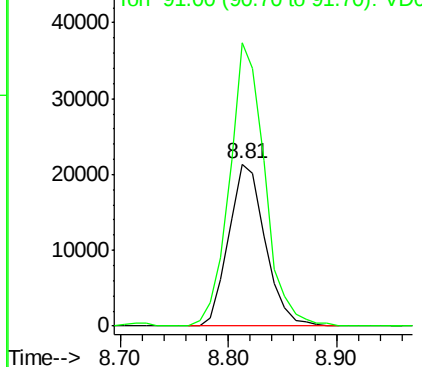
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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058372.D

Acq: 24 Jun 2018 15:25

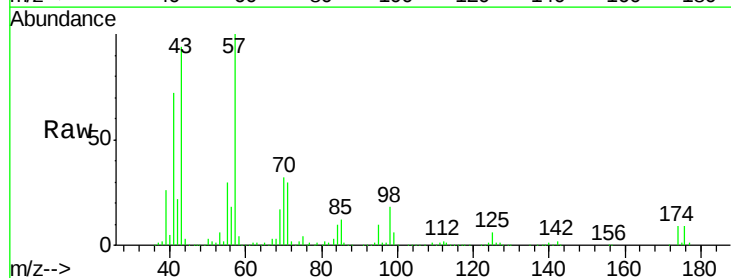
Tgt Ion: 95 Resp: 314718

Ion Ratio Lower Upper

95 100

174 93.0 0.0 170.2

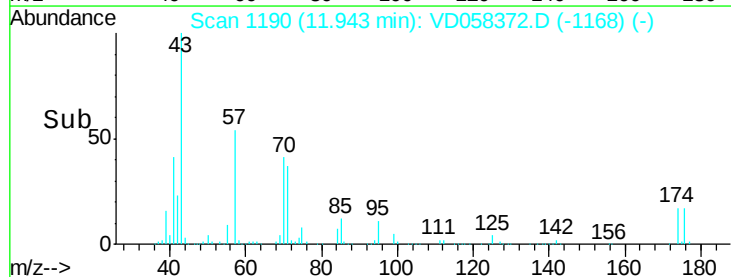
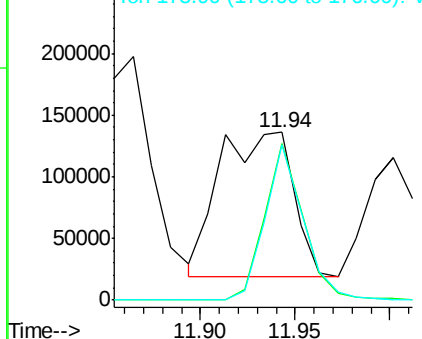
176 92.6 0.0 164.6

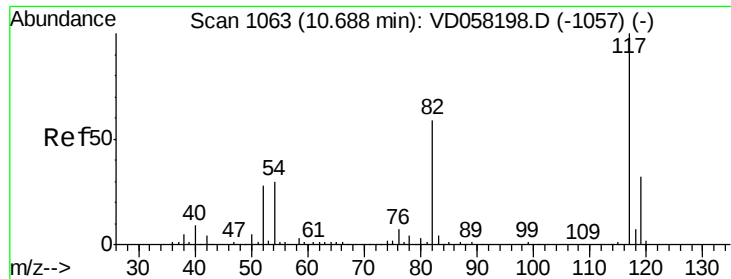


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





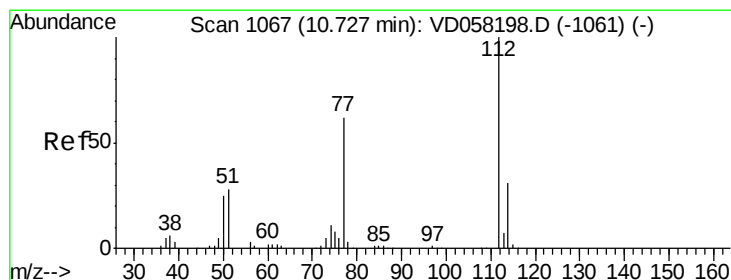
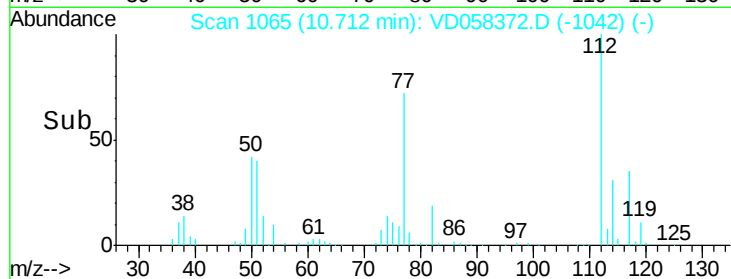
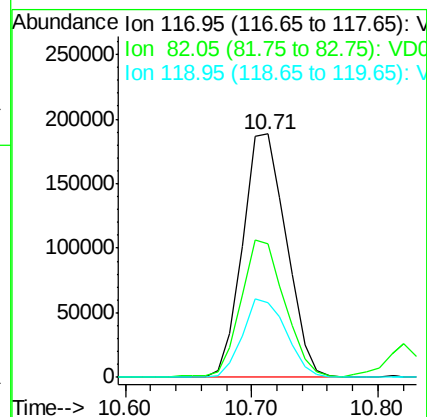
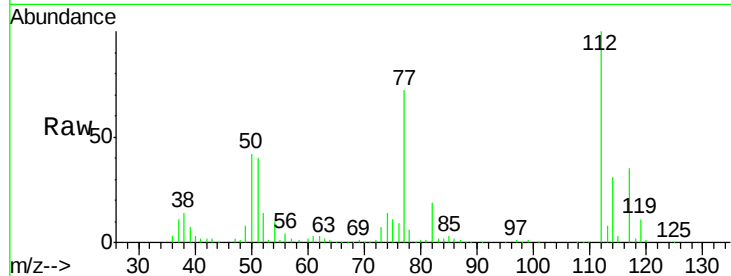
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.71 min Scan# 1065
Delta R.T. 0.02 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-9-11-180621

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	47.0	70.6
119	30.6	25.3	37.9

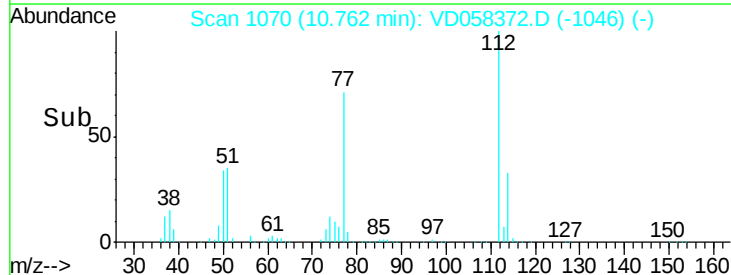
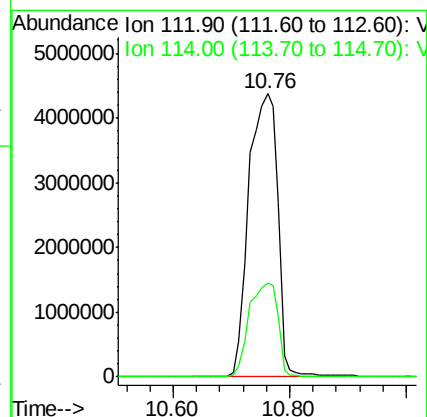
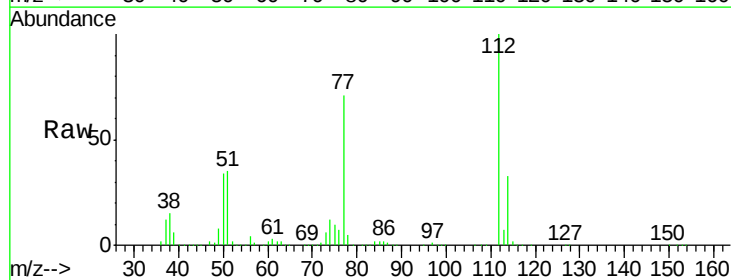
Manual Integrations
APPROVED

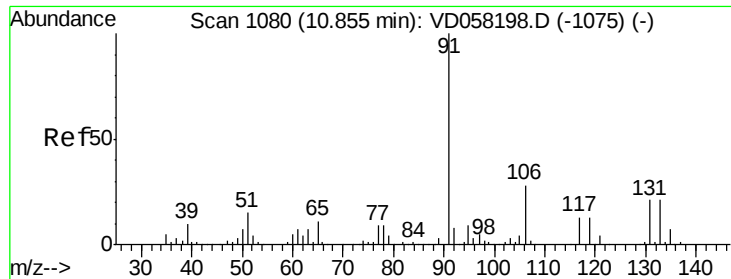
apatel
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#65
Chlorobenzene
Concen: 1806.52 ug/l
RT: 10.76 min Scan# 1070
Delta R.T. 0.03 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.0	25.0	37.4





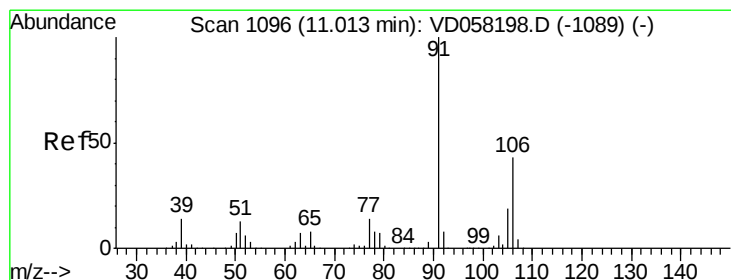
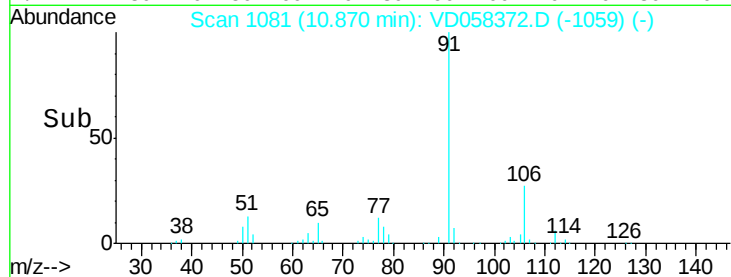
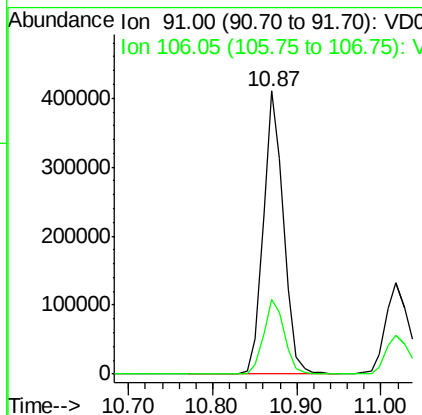
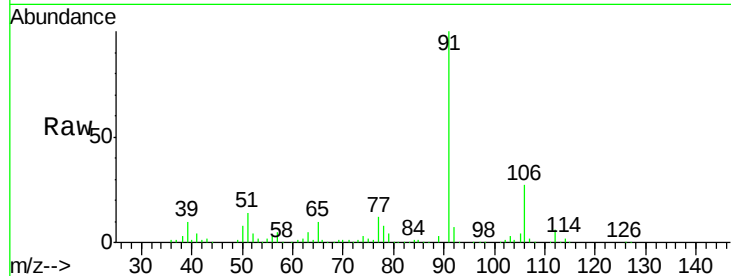
#67
Ethyl Benzene
Concen: 46.41 ug/l
RT: 10.87 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-9-11-180621

Tot Ion: 91 Resp: 693607
Ion Ratio Lower Upper
91 100
106 26.6 22.0 33.0

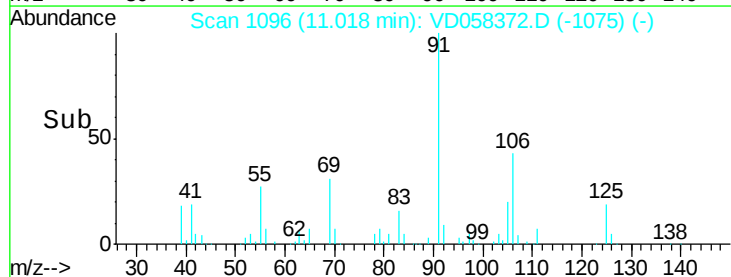
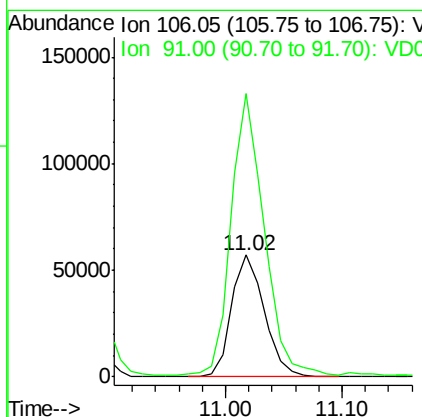
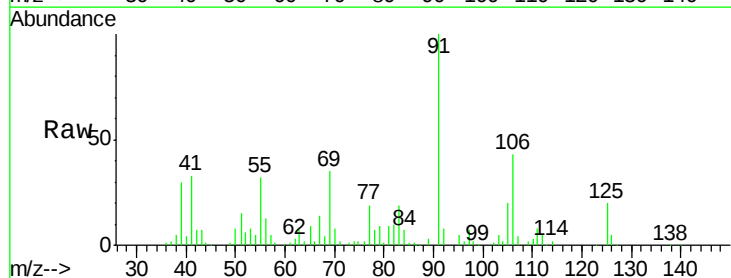
Manual Integrations
APPROVED

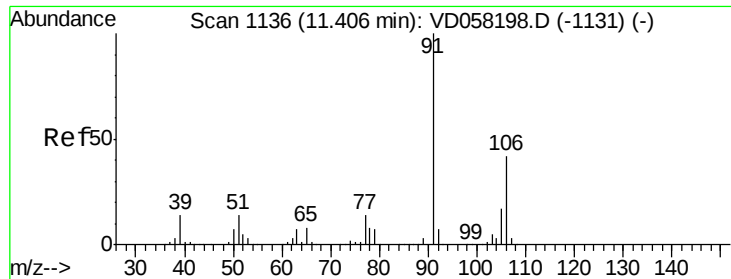
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#68
m/p-Xylenes
Concen: 22.41 ug/l
RT: 11.02 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion: 106 Resp: 111693
Ion Ratio Lower Upper
106 100
91 232.1 185.0 277.6





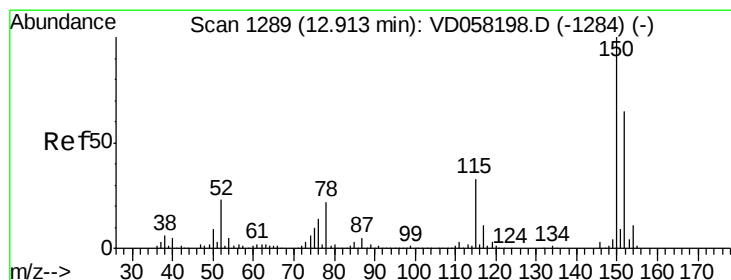
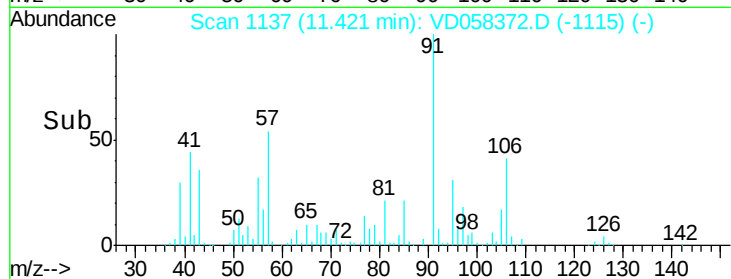
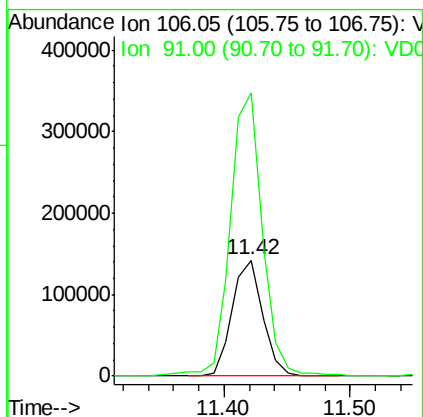
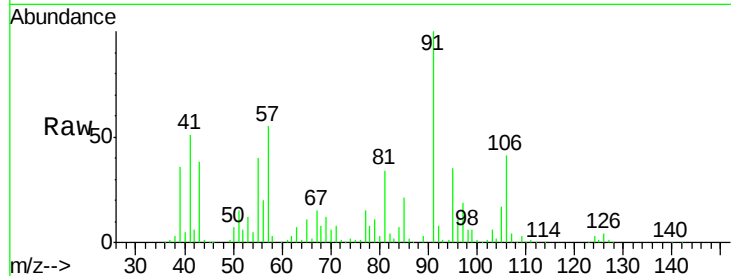
#69
o-Xylene
Concen: 49.96 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-9-11-180621

Tot Ion:106 Resp: 237849
Ion Ratio Lower Upper
106 100
91 244.0 120.2 360.6

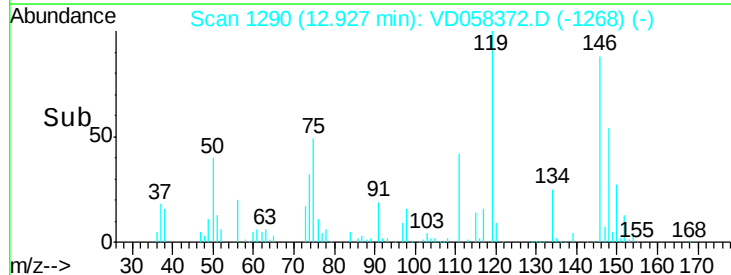
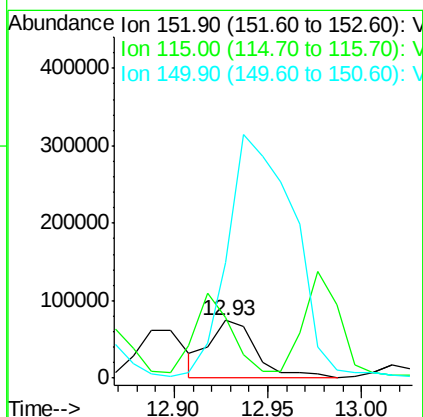
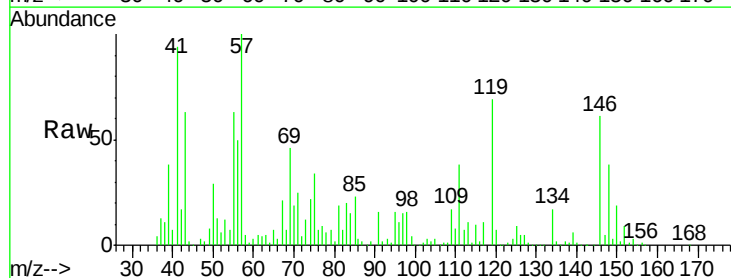
Manual Integrations
APPROVED

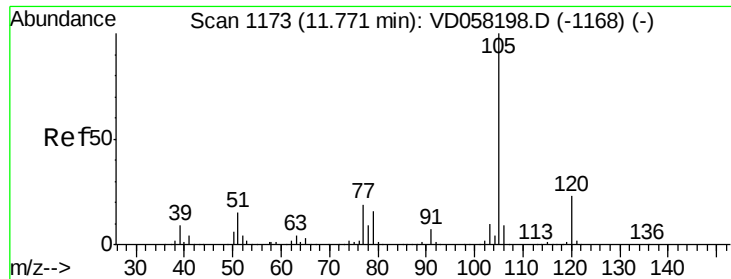
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l m
RT: 12.93 min Scan# 1290
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion:152 Resp: 131255
Ion Ratio Lower Upper
152 100
115 105.6 25.1 75.3#
150 201.6 0.0 308.8





#73

Isopropylbenzene

Concen: 112.88 ug/l

RT: 11.79 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058372.D

Acq: 24 Jun 2018 15:25

Instrument :

MSVOA_D

ClientSampleId :

WP021SB481-9-11-180621

Tot Ion:105 Resp: 886194

Ion Ratio Lower Upper

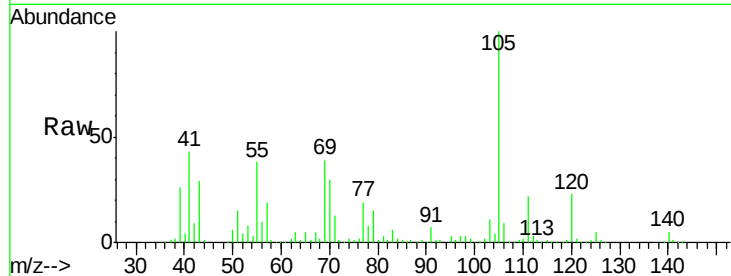
105 100

120 22.7 11.6 34.8

Manual Integrations
APPROVED

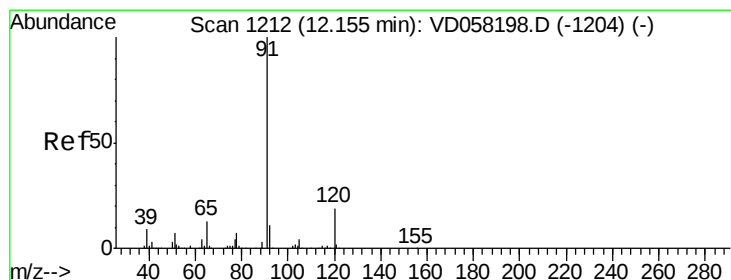
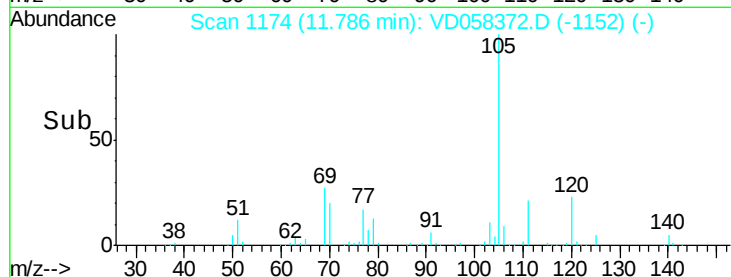
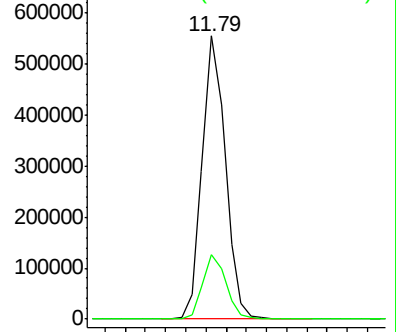
apatel

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#78

n-propylbenzene

Concen: 269.12 ug/l

RT: 12.17 min Scan# 1213

Delta R.T. 0.01 min

Lab File: VD058372.D

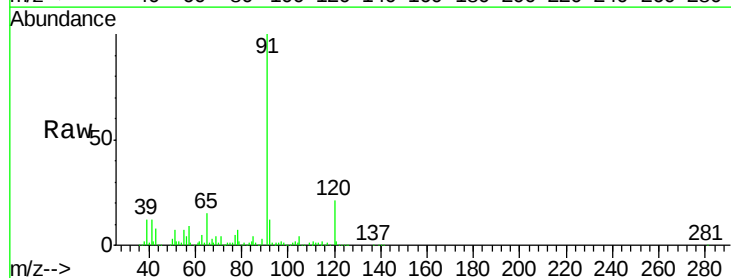
Acq: 24 Jun 2018 15:25

Tgt Ion: 91 Resp: 2728569

Ion Ratio Lower Upper

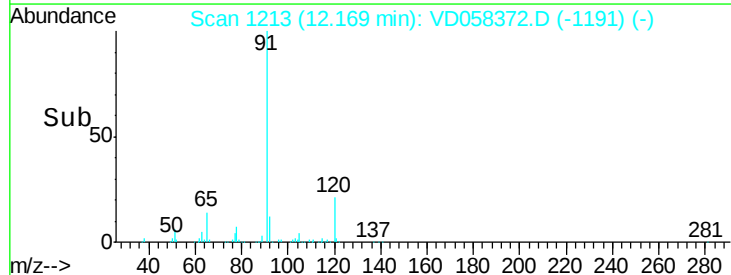
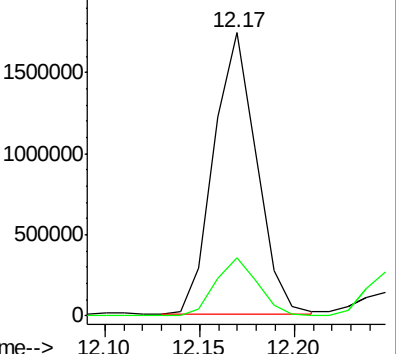
91 100

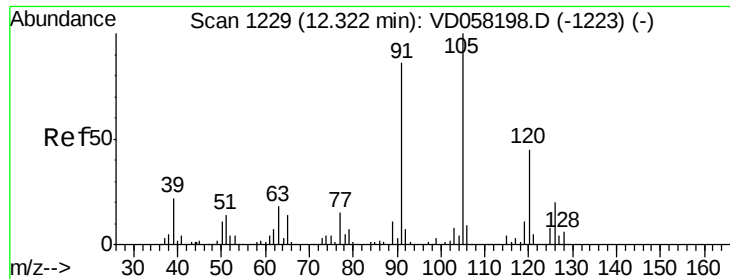
120 20.5 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





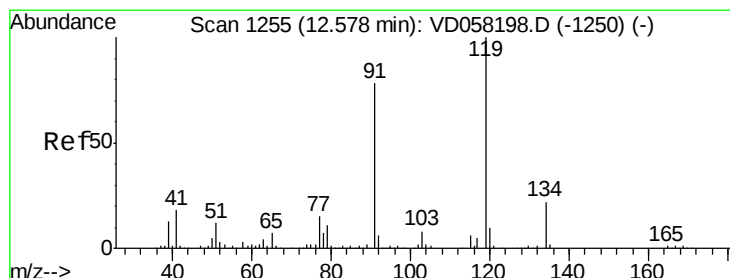
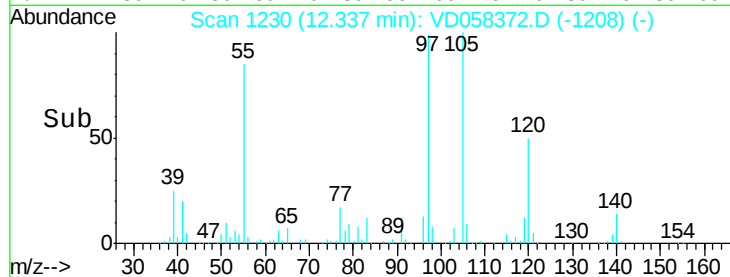
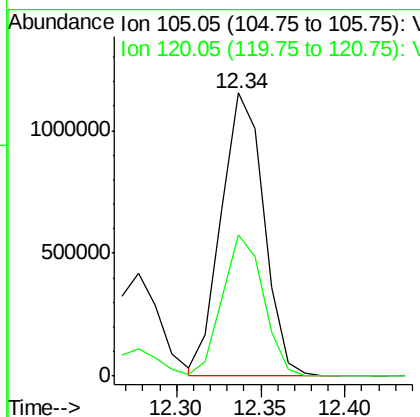
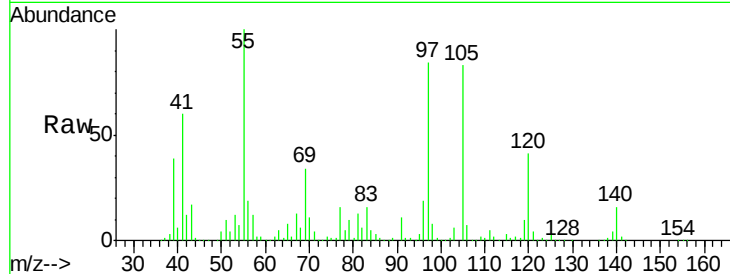
#80
 1,3,5-Trimethylbenzene
 Concen: 330.74 ug/l
 RT: 12.34 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

Tot Ion:105 Resp: 2025278
 Ion Ratio Lower Upper
 105 100
 120 49.8 22.5 67.5

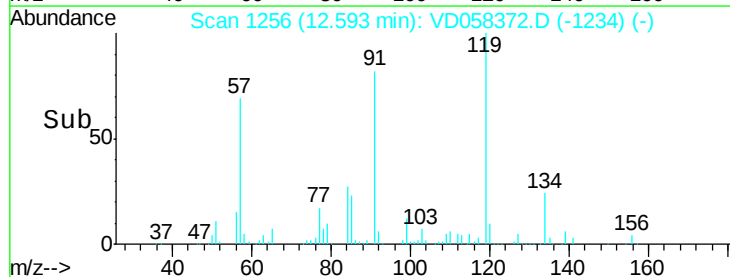
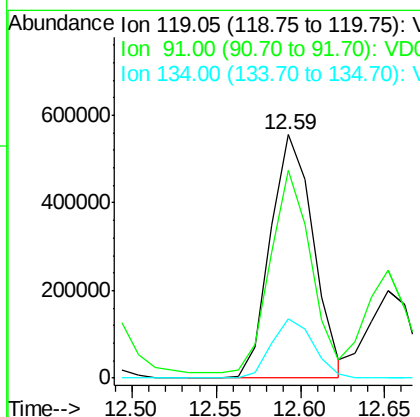
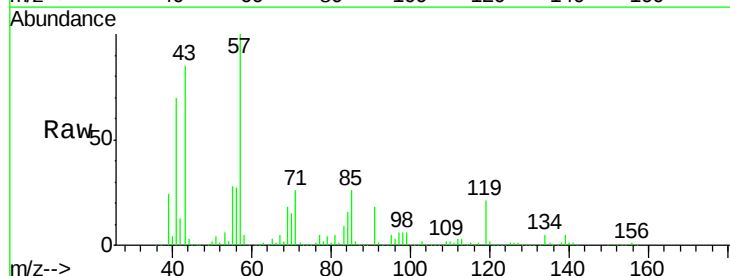
Manual Integrations
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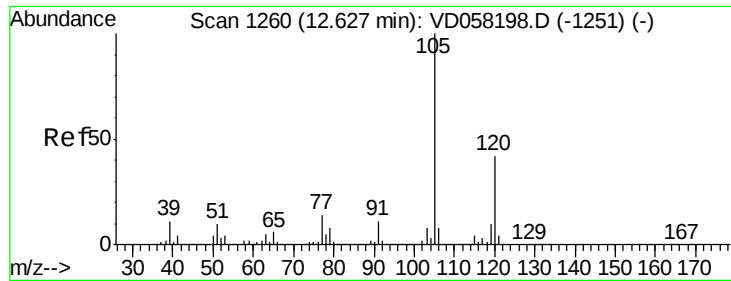
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#83
 tert-Butylbenzene
 Concen: 139.78 ug/l
 RT: 12.59 min Scan# 1256
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion:119 Resp: 984087
 Ion Ratio Lower Upper
 119 100
 91 85.2 38.9 116.6
 134 24.1 11.2 33.5





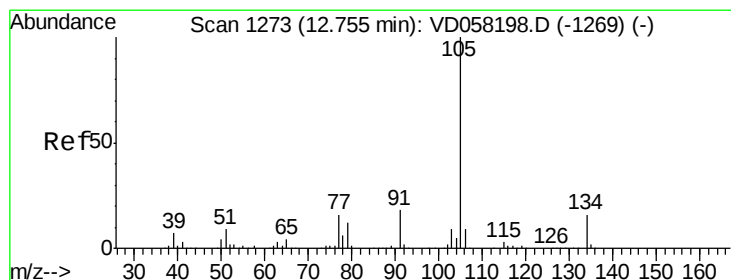
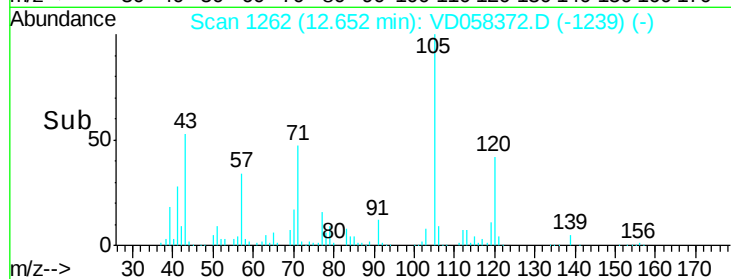
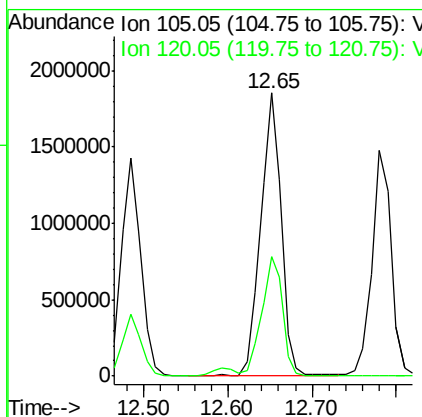
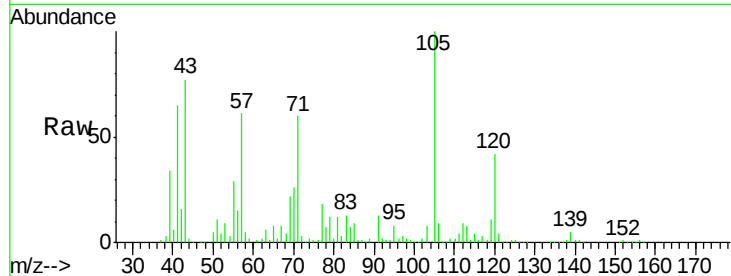
#84
 1,2,4-Trimethylbenzene
 Concen: 481.07 ug/l
 RT: 12.65 min Scan# 1262
 Delta R.T. 0.02 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

Tot Ion:105 Resp: 3202193
 Ion Ratio Lower Upper
 105 100
 120 42.4 20.8 62.4

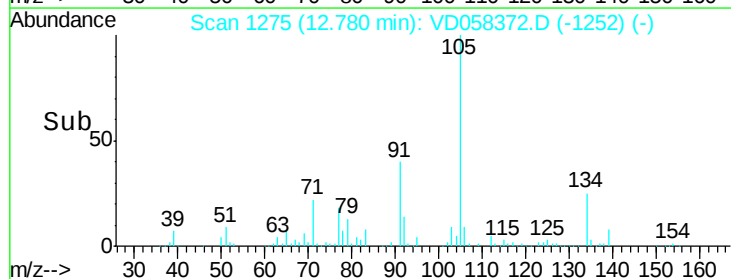
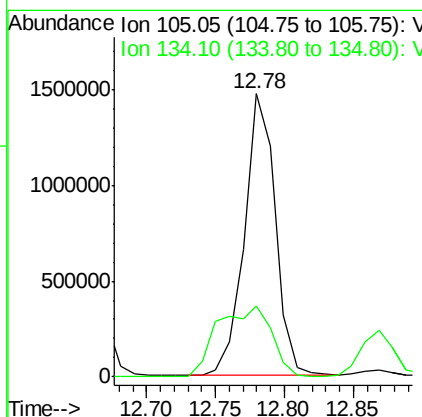
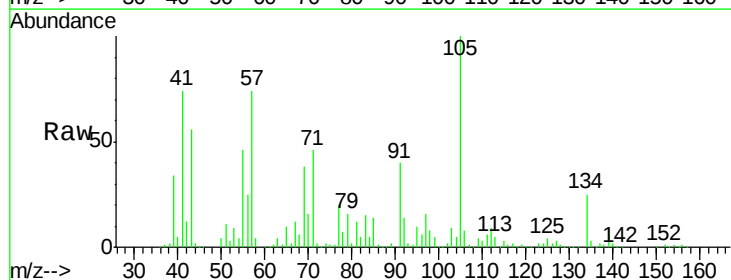
Manual Integrations
 APPROVED

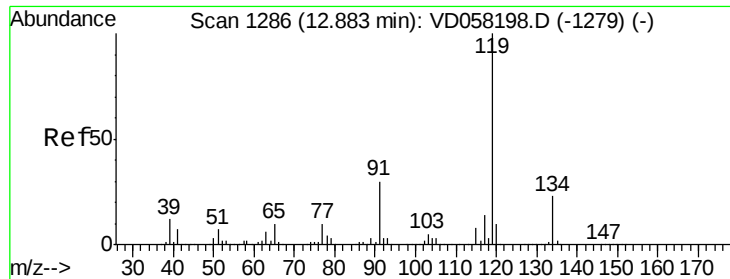
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#85
 sec-Butylbenzene
 Concen: 279.30 ug/l
 RT: 12.78 min Scan# 1275
 Delta R.T. 0.02 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion:105 Resp: 2304829
 Ion Ratio Lower Upper
 105 100
 134 25.3 8.1 24.3#





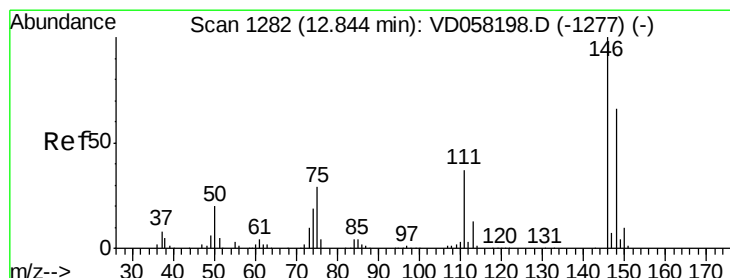
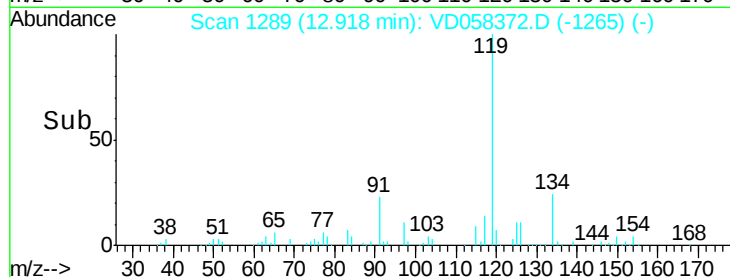
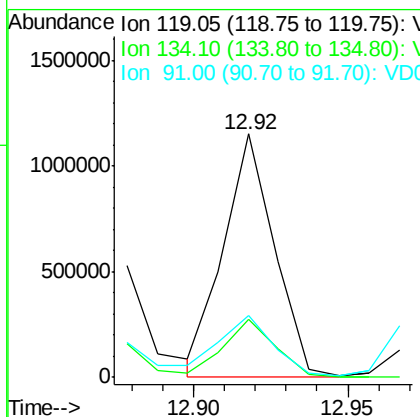
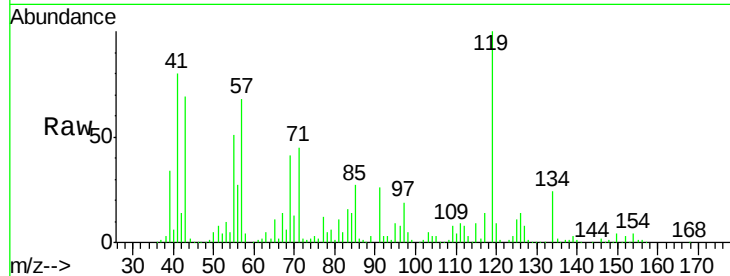
#86
p-Isopropyltoluene
Concen: 198.33 ug/l m
RT: 12.92 min Scan# 1289
Delta R.T. 0.03 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-9-11-180621

Tot Ion	Ratio	Lower	Upper
119	100		
134	23.9	11.6	34.8
91	25.6	15.0	45.1

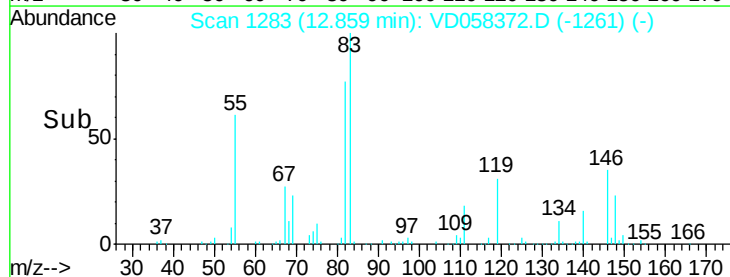
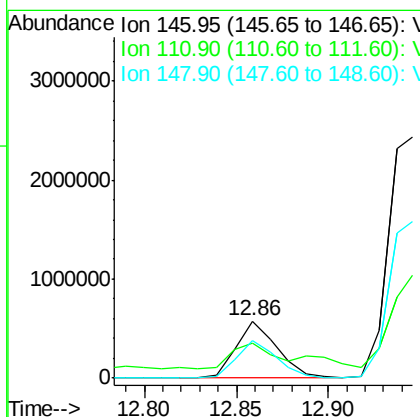
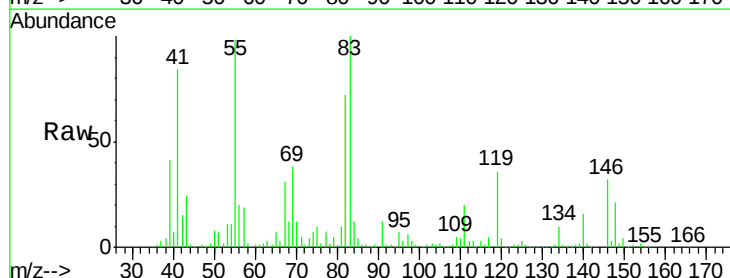
Manual Integrations
APPROVED

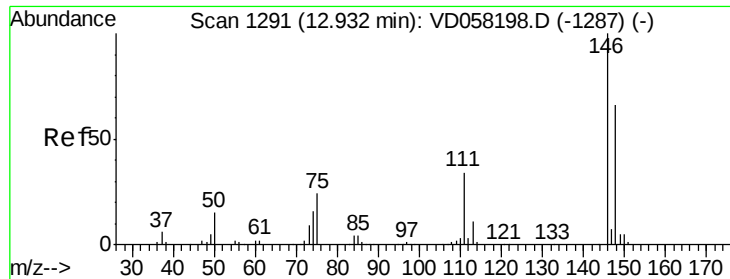
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#87
1,3-Dichlorobenzene
Concen: 219.94 ug/l m
RT: 12.86 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	61.5	18.4	55.0#
148	65.3	32.8	98.4





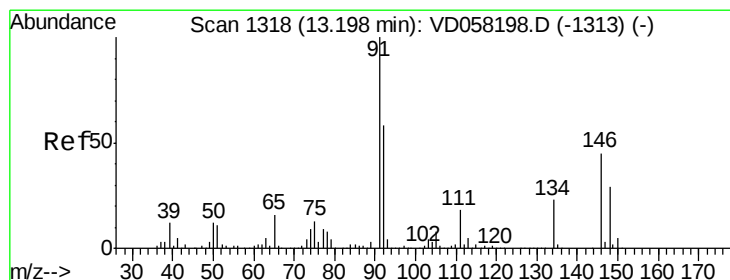
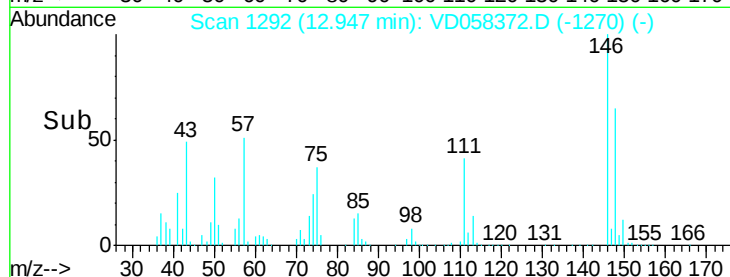
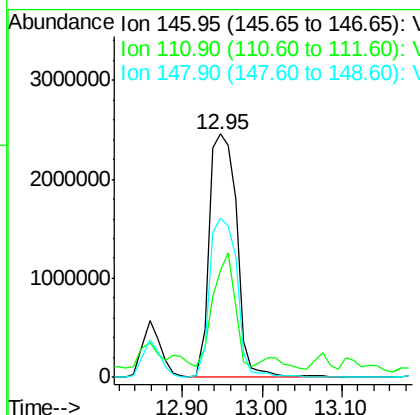
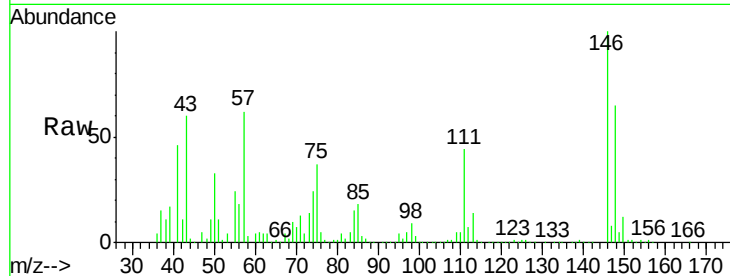
#88
 1,4-Dichlorobenzene
 Concen: 1490.87 ug/l
 RT: 12.95 min Scan# 1292
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

Tot Ion:146 Resp: 5948930
 Ion Ratio Lower Upper
 146 100
 111 43.9 17.2 51.5
 148 65.3 33.1 99.3

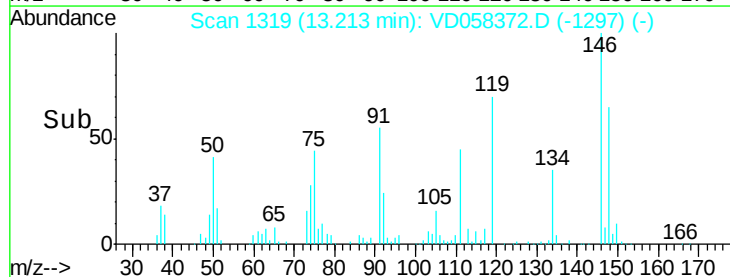
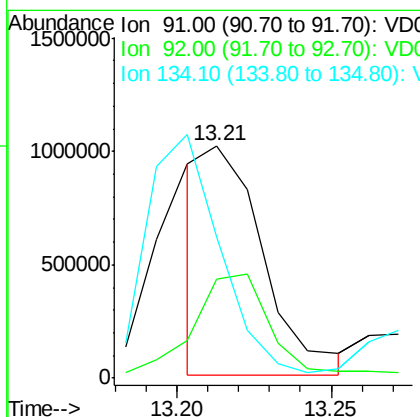
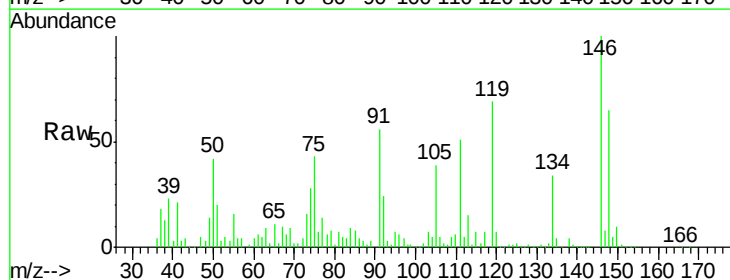
Manual Integrations
 APPROVED

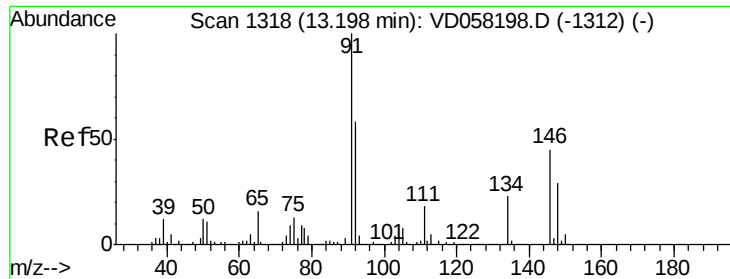
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#89
 n-Butylbenzene
 Concen: 194.40 ug/l m
 RT: 13.21 min Scan# 1319
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion: 91 Resp: 1366252
 Ion Ratio Lower Upper
 91 100
 92 42.6 29.2 87.6
 134 60.7 11.3 33.8#





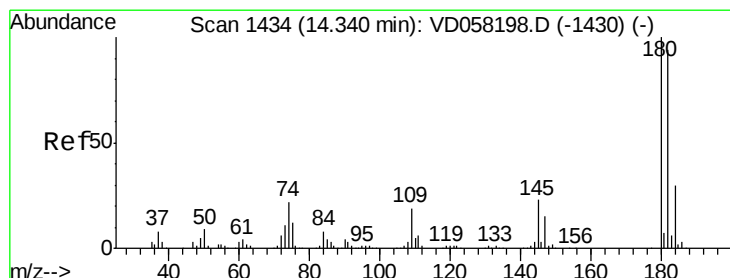
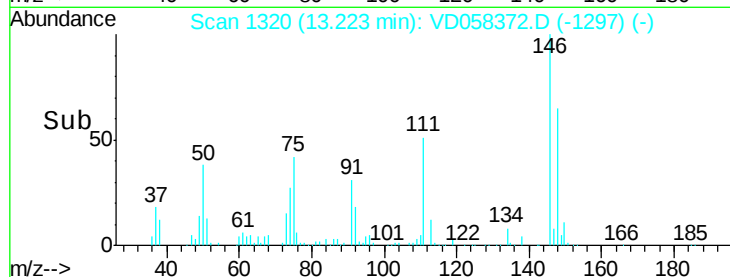
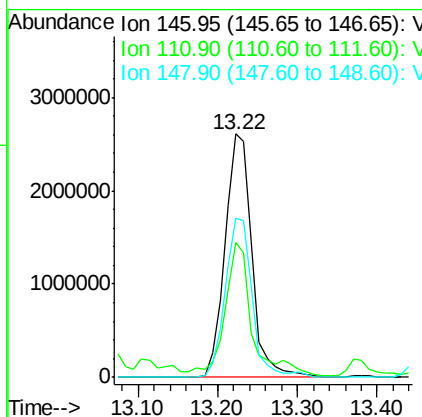
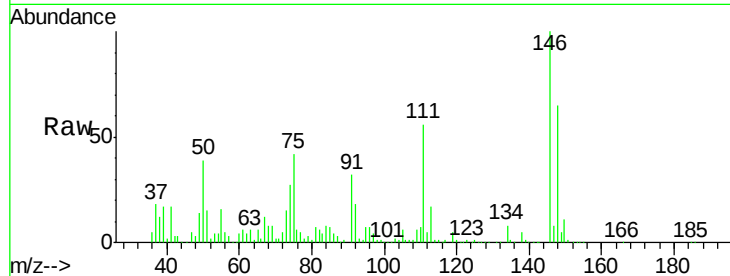
#91
 1,2-Dichlorobenzene
 Concen: 1771.32 ug/l
 RT: 13.22 min Scan# 1320
 Delta R.T. 0.02 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB481-9-11-180621

Tot Ion:146 Resp: 6159471
 Ion Ratio Lower Upper
 146 100
 111 55.5 19.6 58.7
 148 65.1 32.0 96.2

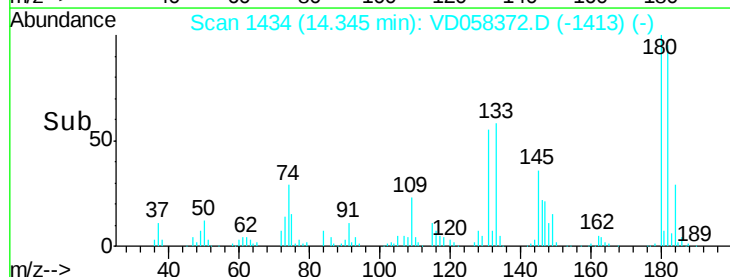
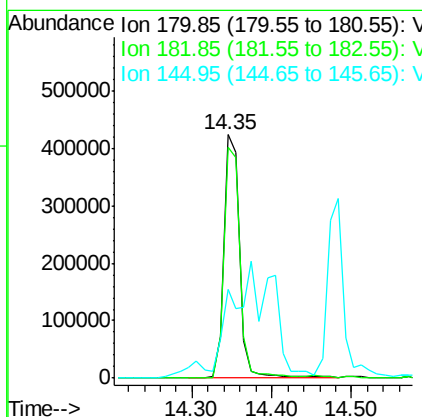
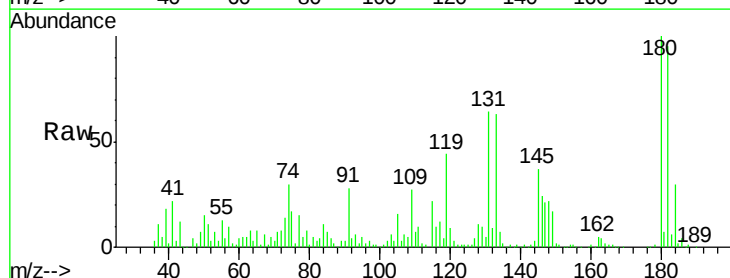
Manual Integrations
 APPROVED

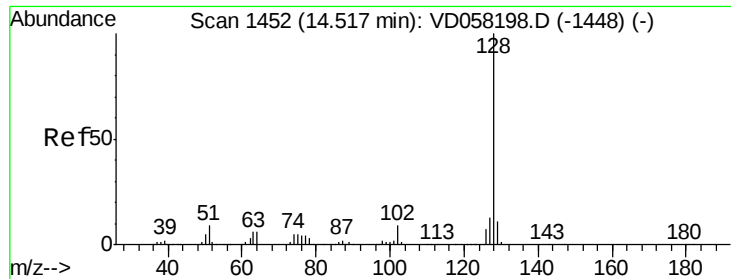
apatel
 6/25/2018 6:20:57 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 177.40 ug/l
 RT: 14.35 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VD058372.D
 Acq: 24 Jun 2018 15:25

Tgt Ion:180 Resp: 590006
 Ion Ratio Lower Upper
 180 100
 182 94.9 47.1 141.3
 145 36.5 11.7 35.0#





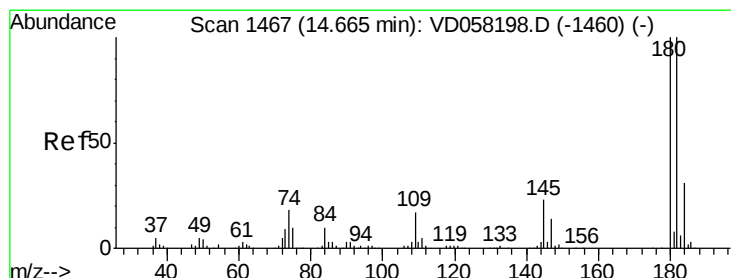
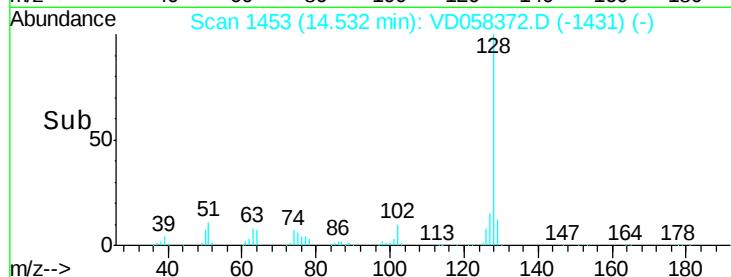
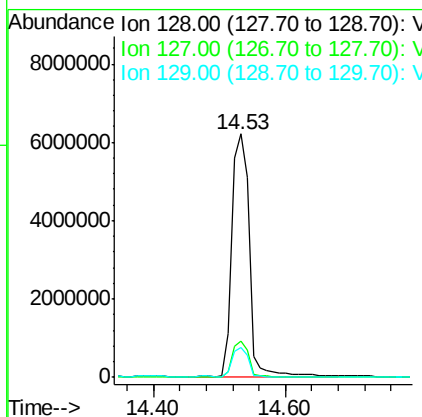
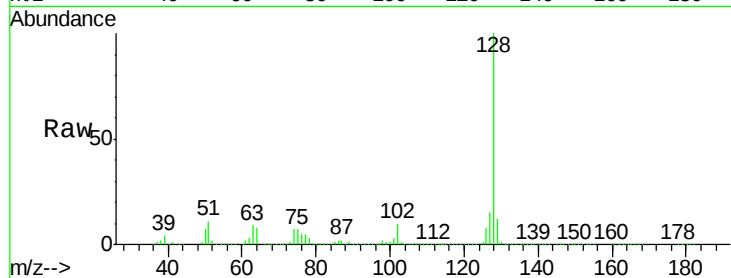
#95
Naphthalene
Concen: 2692.92 ug/l
RT: 14.53 min Scan# 1453
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Instrument :
MSVOA_D
ClientSampleId :
WP021SB481-9-11-180621

Tot Ion:128 Resp:11797320
Ion Ratio Lower Upper
128 100
127 14.7 10.0 15.0
129 12.4 8.7 13.1

Manual Integrations
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6/25/2018 6:20:57 PM



#96
1,2,3-Trichlorobenzene
Concen: 33.80 ug/l
RT: 14.67 min Scan# 1467
Delta R.T. 0.01 min
Lab File: VD058372.D
Acq: 24 Jun 2018 15:25

Tgt Ion:180 Resp: 98423
Ion Ratio Lower Upper
180 100
182 94.5 49.9 149.6
145 77.9 11.7 35.1#

