

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058371.D
 Acq On : 24 Jun 2018 14:57
 Operator : VA/AP
 Sample : J3671-13
 Misc : 6.21g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0478-180621

Manual Integrations
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 6/25/2018 6:13:32 PM

Quant Time: Jun 25 04:40:10 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	817619	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	1014460	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	843145	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	444175	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	416629	50.45	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.90%	
35) Dibromofluoromethane	5.56	113	431189	52.22	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.44%	
50) Toluene-d8	8.72	98	1003191	50.22	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	11.94	95	439417	53.85	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.70%	

Target Compounds				Qvalue		
4) Vinyl Chloride	1.55	62	3848674	898.56	ug/l	97
12) 1,1-Dichloroethene	2.56	96	147851	52.63	ug/l	97
16) Acetone	2.62	43	99217	87.85	ug/l #	80
20) Methylene Chloride	3.08	84	38600	9.20	ug/l	99
21) trans-1,2-Dichloroethene	3.40	96	384490	125.24	ug/l	96
24) 1,1-Dichloroethane	3.99	63	815777	58.32	ug/l	99
27) cis-1,2-Dichloroethene	4.81	96	30739489m	4006.93	ug/l	
30) Chloroform	5.33	83	48458	3.28	ug/l	93
39) Methylcyclohexane	7.28	83	47375	4.85	ug/l	93
40) Benzene	6.03	78	384522	16.08	ug/l	98
44) Trichloroethene	6.99	130	156055	21.74	ug/l	100
52) Toluene	8.81	92	120491	8.85	ug/l	99
55) 1,1,2-Trichloroethane	9.47	97	96693	20.08	ug/l	92
65) Chlorobenzene	10.73	112	1054848	66.88	ug/l	100
68) m/p-Xylenes	11.02	106	40772	4.39	ug/l	97
73) Isopropylbenzene	11.78	105	44780	1.69	ug/l	96
78) n-propylbenzene	12.16	91	62079	1.81	ug/l	99
80) 1,3,5-Trimethylbenzene	12.32	105	141955	6.85	ug/l	99
84) 1,2,4-Trimethylbenzene	12.63	105	95034	4.22	ug/l	99
85) sec-Butylbenzene	12.76	105	52824	1.89	ug/l	91
86) p-Isopropyltoluene	12.89	119	34108	1.51	ug/l	94
87) 1,3-Dichlorobenzene	12.85	146	144341	10.44	ug/l	93
88) 1,4-Dichlorobenzene	12.93	146	273848	20.28	ug/l	98
89) n-Butylbenzene	13.20	91	46358m	1.95	ug/l	
91) 1,2-Dichlorobenzene	13.20	146	507521	43.13	ug/l	98

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

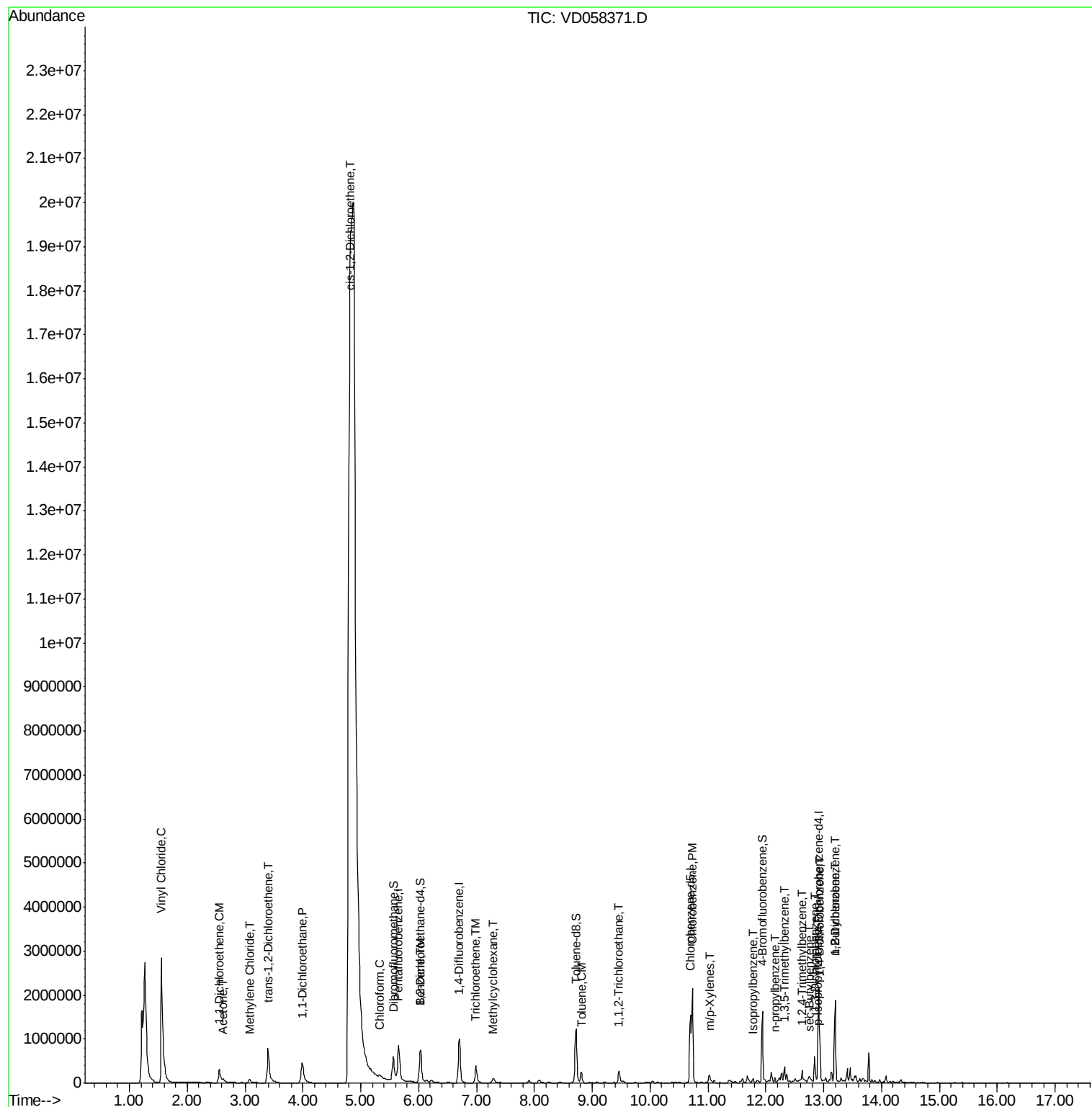
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062418\
Data File : VD058371.D
Acq On : 24 Jun 2018 14:57
Operator : VA/AP
Sample : J3671-13
Misc : 6.21g/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

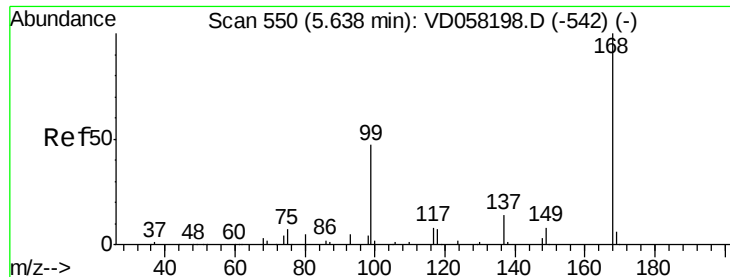
Instrument :
MSVOA_D
ClientSampleId :
DUP-0478-180621

Manual Integrations
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Quant Time: Jun 25 04:40:10 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

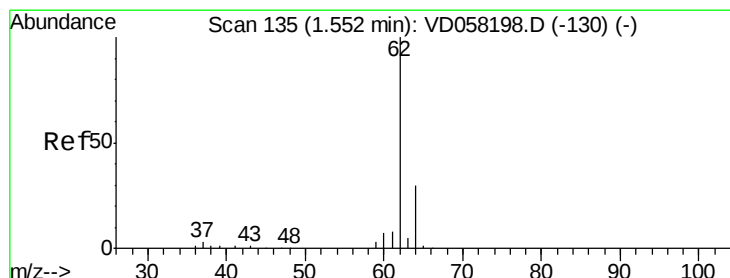
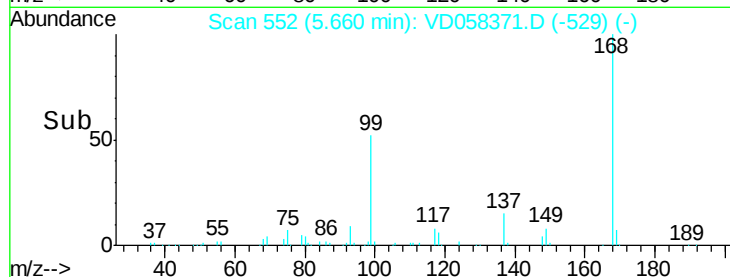
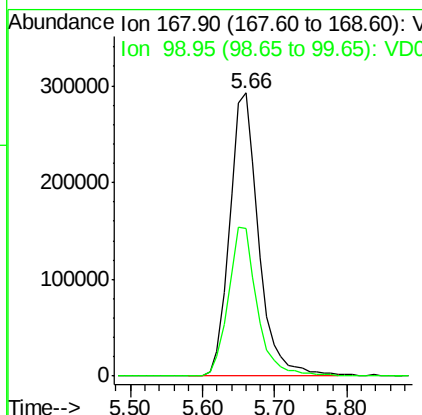
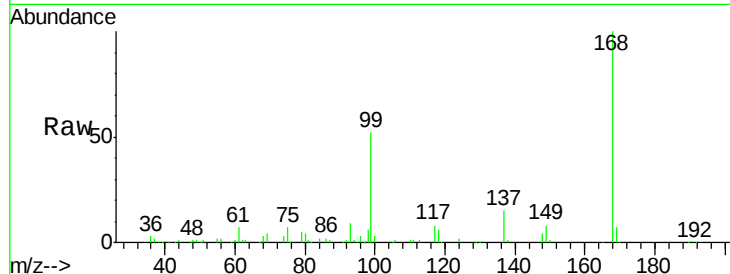
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 5.66 min Scan# 552
 Delta R.T. 0.02 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0478-180621

Tot Ion	Ratio	Lower	Upper
168	100		
99	52.0	41.1	61.7

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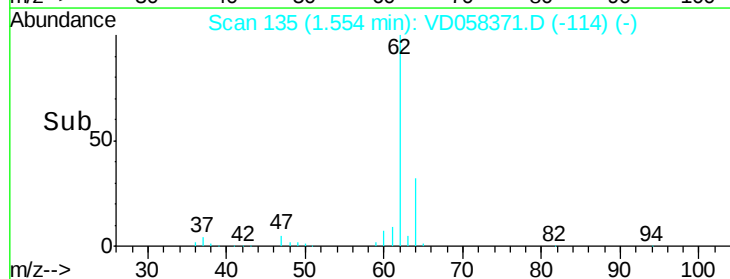
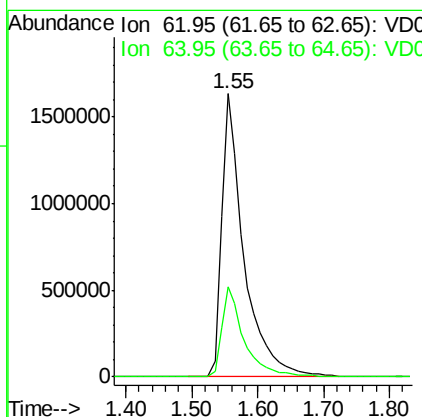
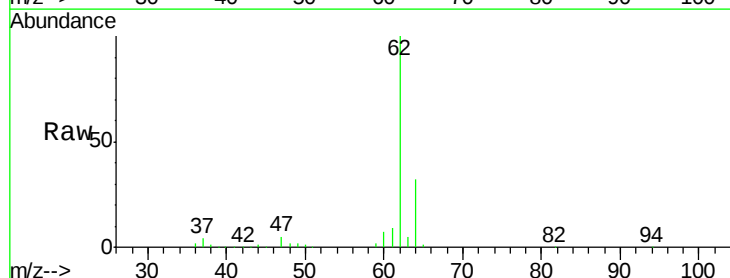
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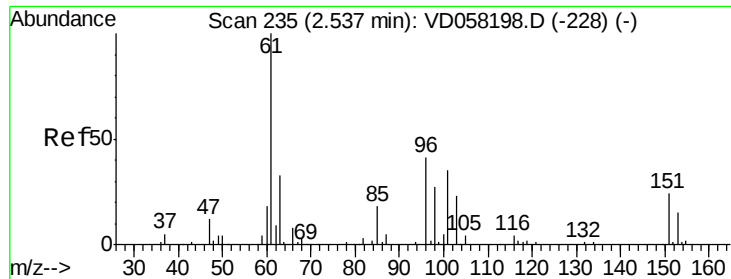


#4

Vinyl Chloride
 Concen: 898.56 ug/l
 RT: 1.55 min Scan# 135
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.4	36.6





#12

1,1-Dichloroethene

Concen: 52.63 ug/l

RT: 2.56 min Scan# 237

Delta R.T. 0.02 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

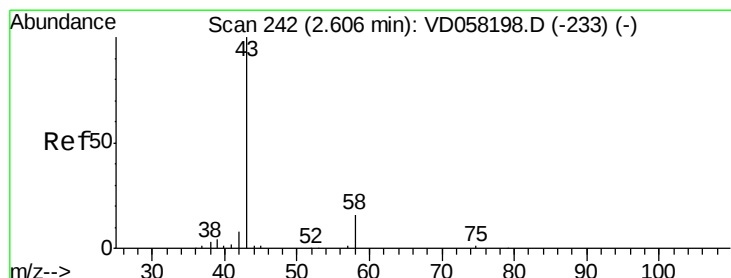
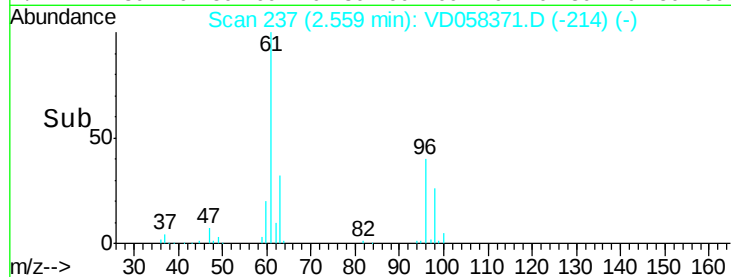
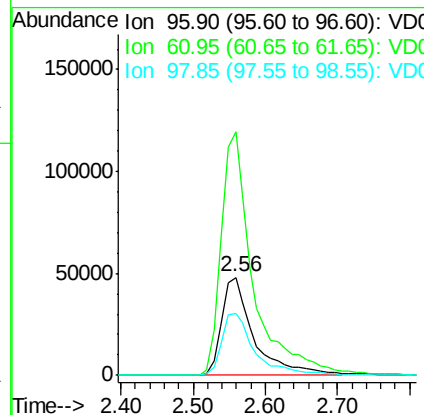
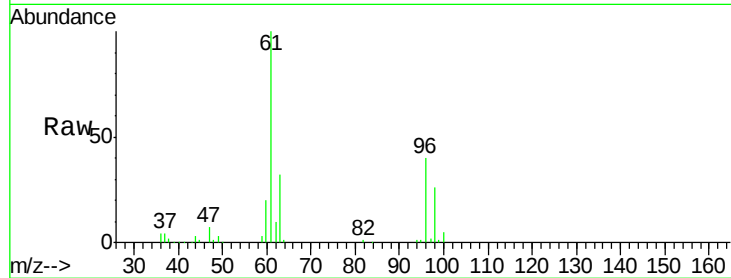
ClientSampleId :

DUP-0478-180621

Tot Ion:	96	Resp:	147851
Ion	Ratio	Lower	Upper
96	100		
61	249.2	193.9	290.9
98	63.6	51.7	77.5

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#16

Acetone

Concen: 87.85 ug/l

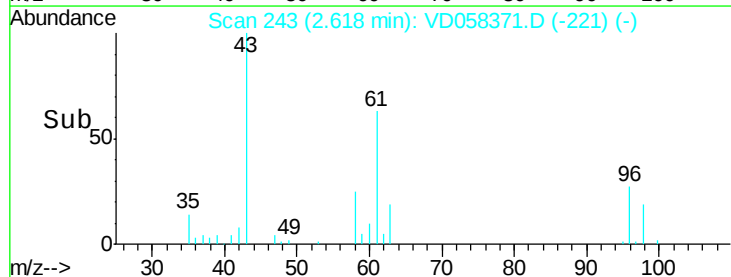
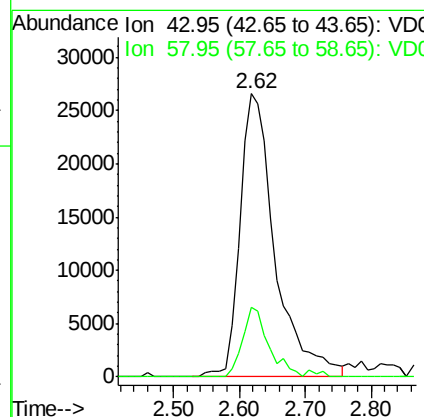
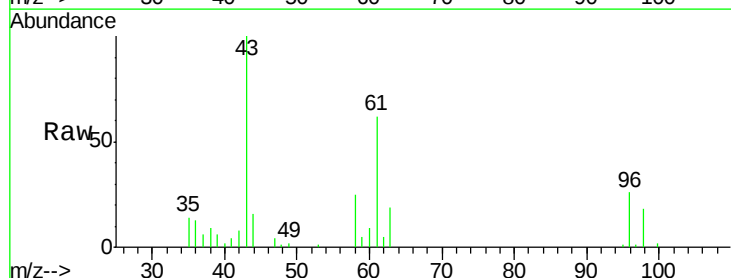
RT: 2.62 min Scan# 243

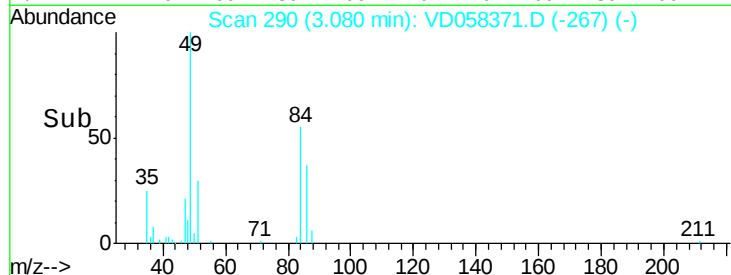
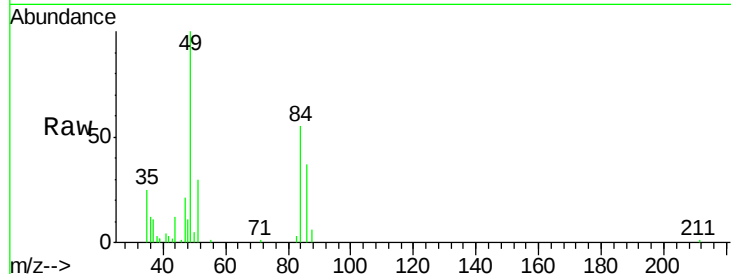
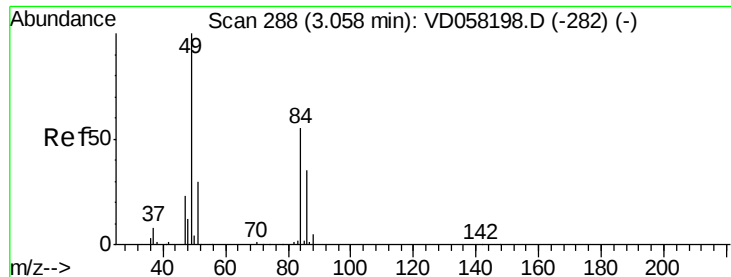
Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Tgt Ion:	43	Resp:	99217
Ion	Ratio	Lower	Upper
43	100		
58	24.5	12.7	19.1#





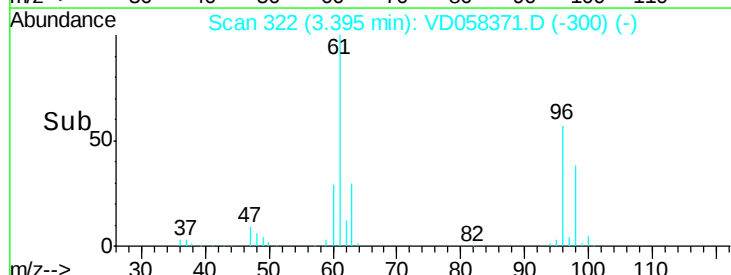
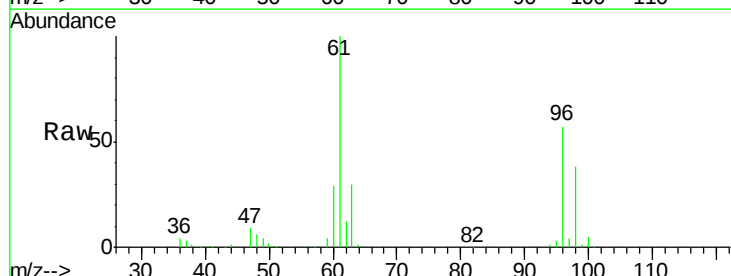
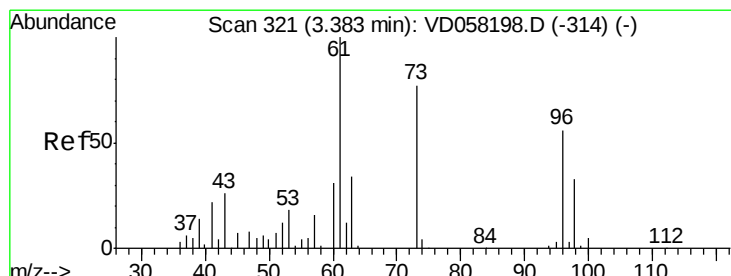
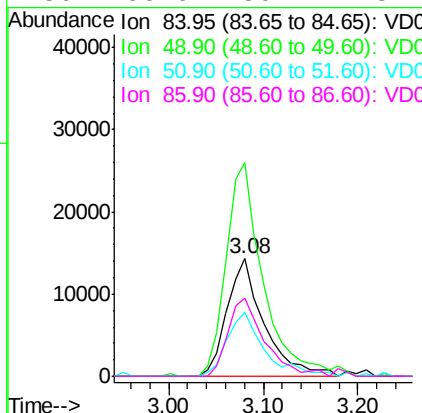
#20
Methvlene Chloride
Concen: 9.20 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.02 min
Lab File: VD058371.D
Acq: 24 Jun 2018 14:57

Tot Ion:	84	Resp:	38600
Ion	Ratio	Lower	Upper
84	100		
49	181.9	145.0	217.6
51	54.3	42.9	64.3
86	66.6	50.1	75.1

Instrument :
MSVOA_D
ClientSampleId :
DUP-0478-180621

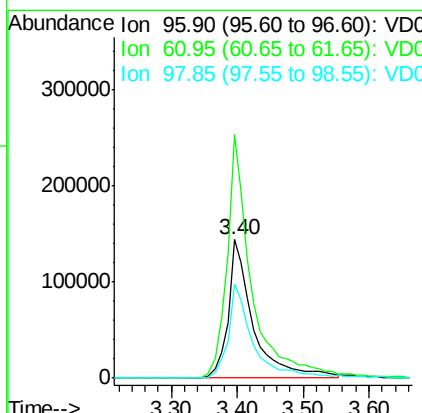
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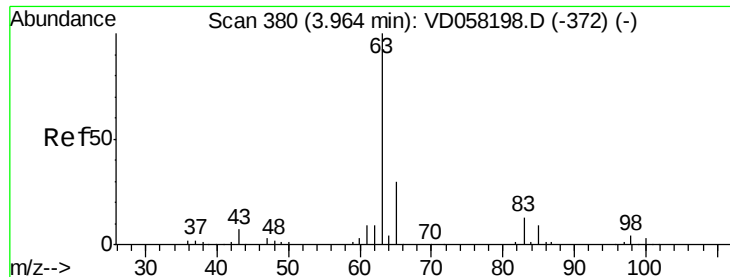
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#21
trans-1,2-Dichloroethene
Concen: 125.24 ug/l
RT: 3.40 min Scan# 322
Delta R.T. 0.01 min
Lab File: VD058371.D
Acq: 24 Jun 2018 14:57

Tgt Ion:	96	Resp:	384490
Ion	Ratio	Lower	Upper
96	100		
61	176.3	143.8	215.6
98	67.7	48.0	72.0





#24

1,1-Dichloroethane

Concen: 58.32 ug/l

RT: 3.99 min Scan# 382

Delta R.T. 0.02 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

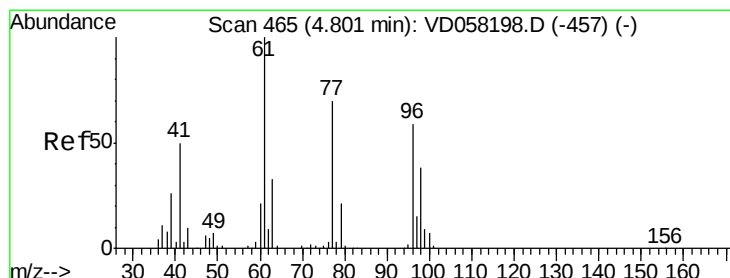
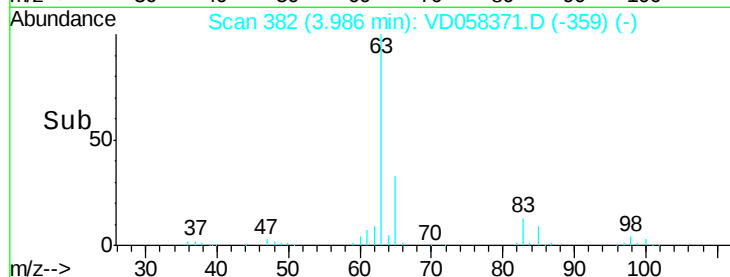
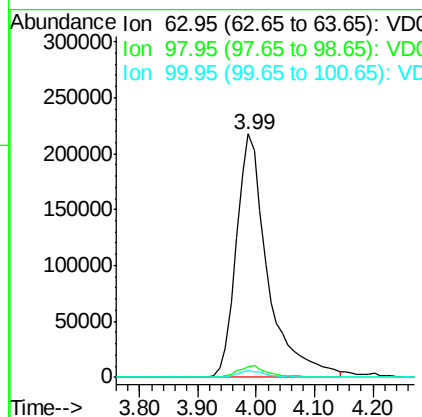
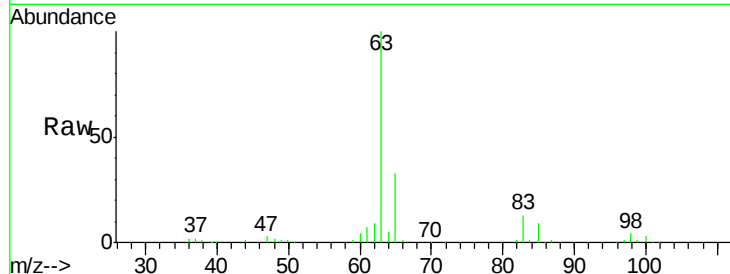
ClientSampleId :

DUP-0478-180621

Tot Ion:	63	Resp:	815777
Ion	Ratio	Lower	Upper
63	100		
98	4.2	1.9	5.7
100	2.8	1.3	3.9

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#27

cis-1,2-Dichloroethene

Concen: 4006.93 ug/l m

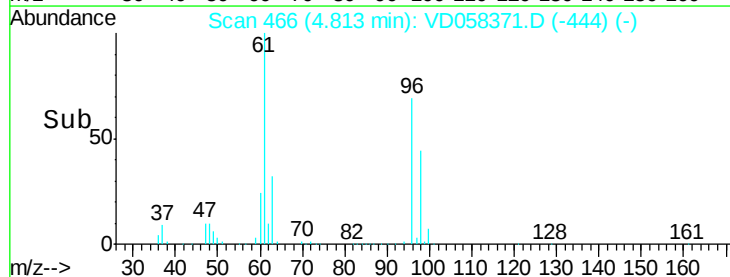
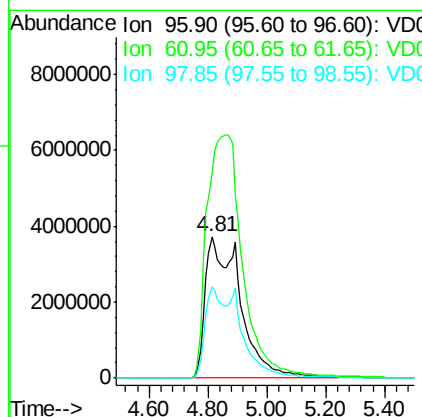
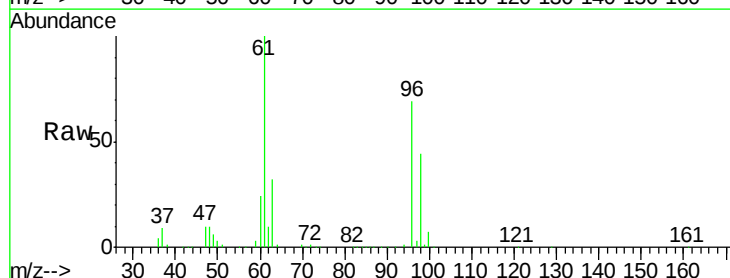
RT: 4.81 min Scan# 466

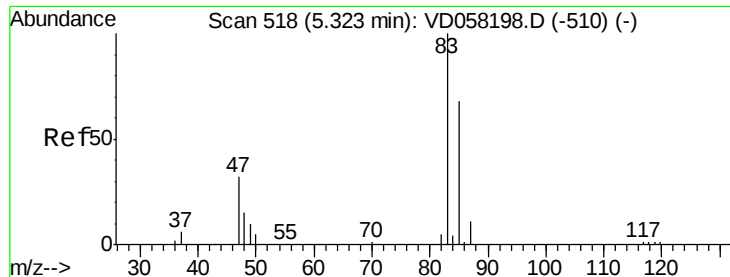
Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Tgt Ion:	96	Resp:	30739489
Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	338.6
98	64.5	0.0	130.2





#30

Chloroform

Concen: 3.28 ug/l

RT: 5.33 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

DUP-0478-180621

Tot Ion: 83 Resp: 48458

Ion Ratio Lower Upper

83 100

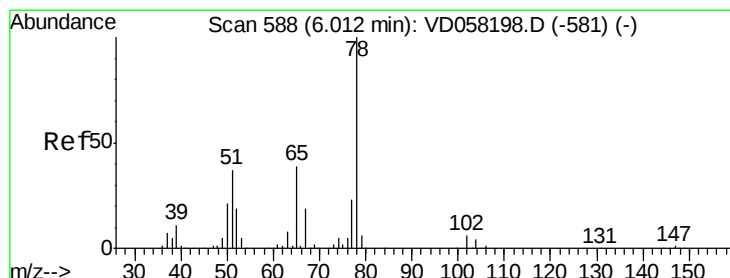
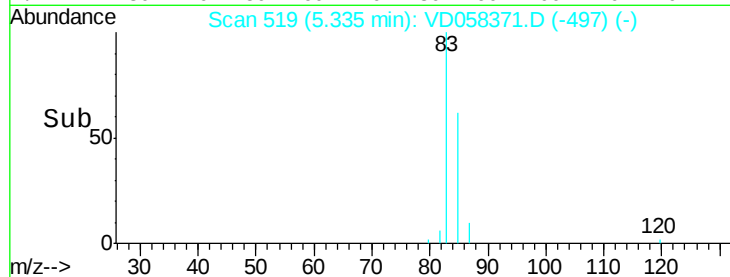
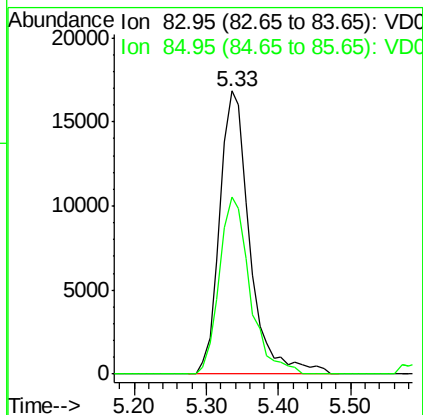
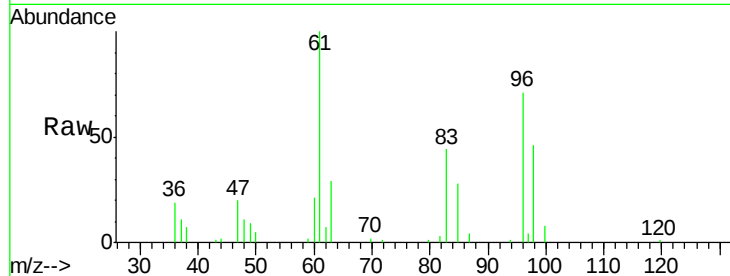
85 62.5 54.8 82.2

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#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058371.D

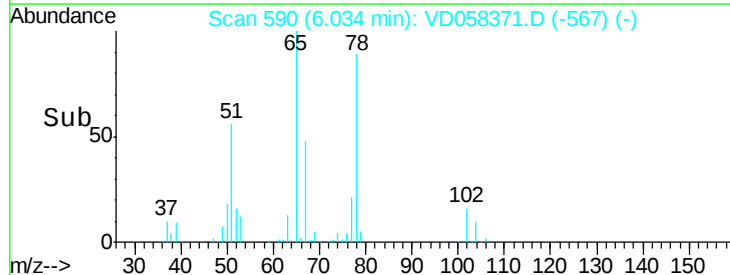
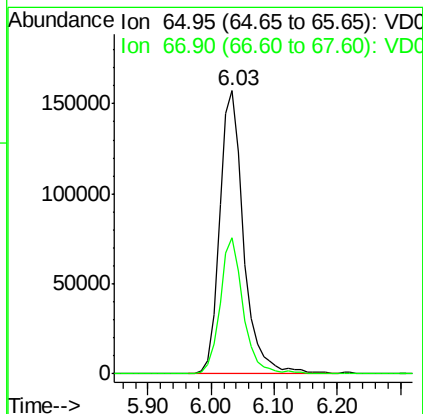
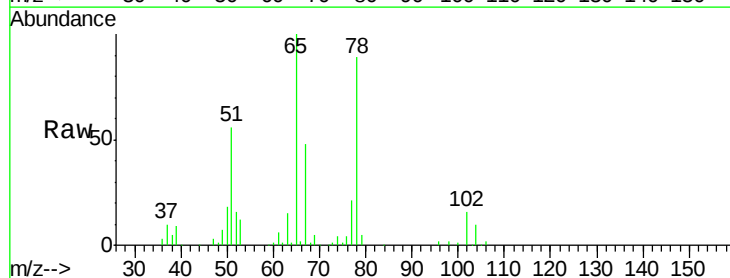
Acq: 24 Jun 2018 14:57

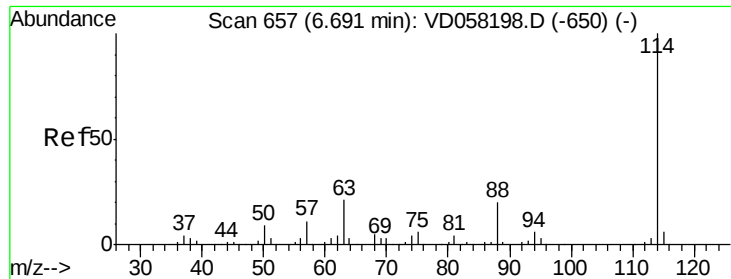
Tgt Ion: 65 Resp: 416629

Ion Ratio Lower Upper

65 100

67 48.3 0.0 97.8





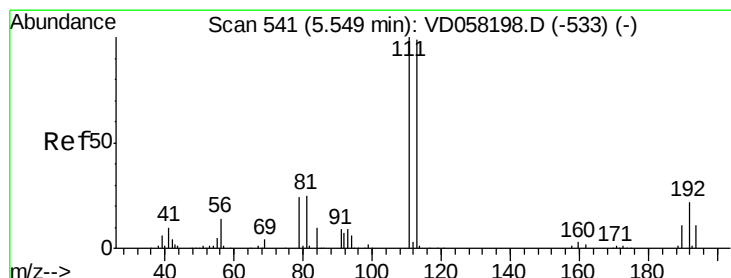
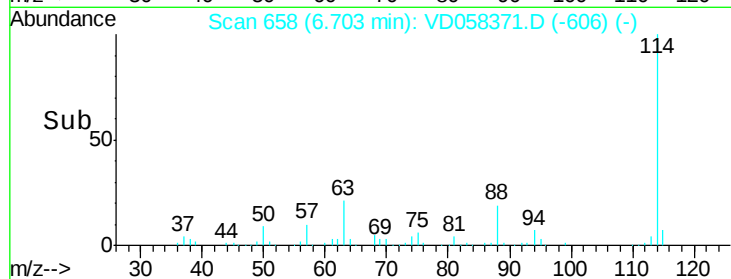
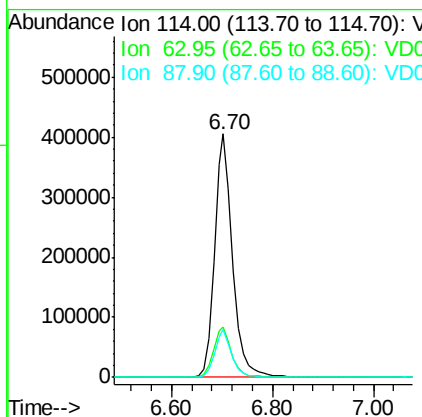
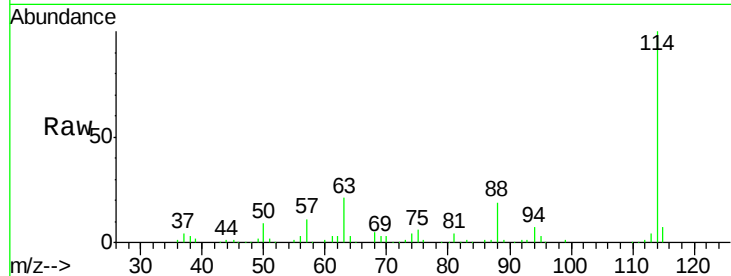
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0478-180621

Tot Ion:114 Resp: 1014460
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.6
 88 19.5 0.0 40.6

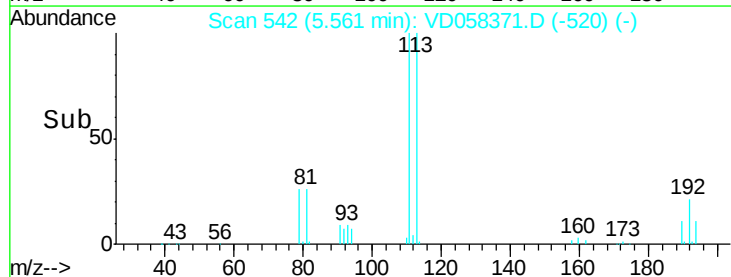
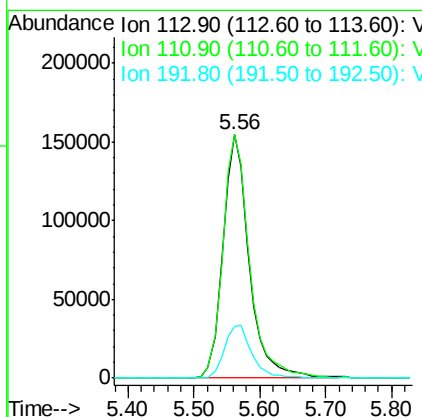
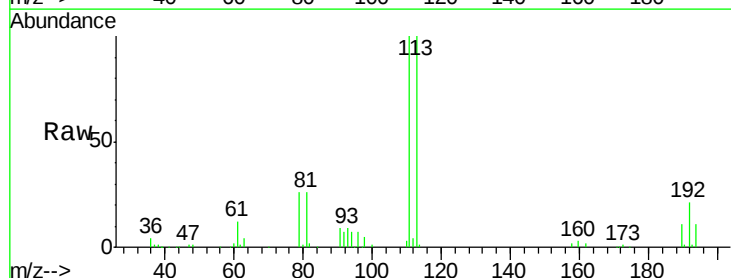
Manual Integrations
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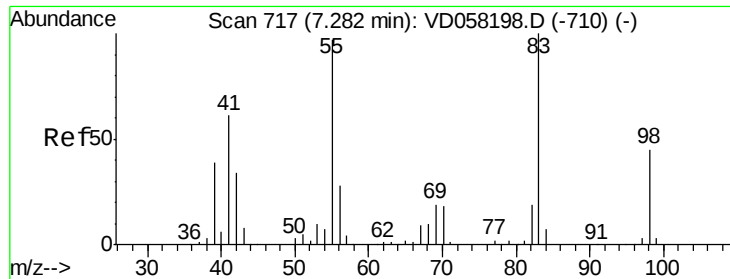
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#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Tgt Ion:113 Resp: 431189
 Ion Ratio Lower Upper
 113 100
 111 100.0 80.6 121.0
 192 21.0 17.8 26.6





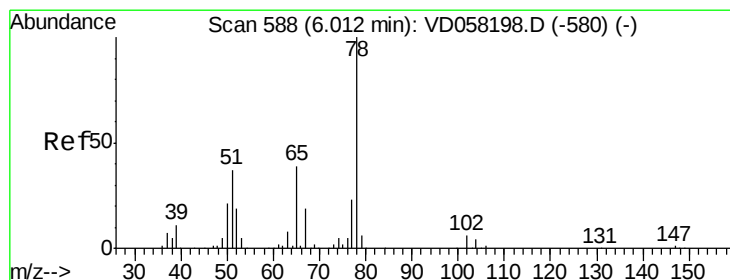
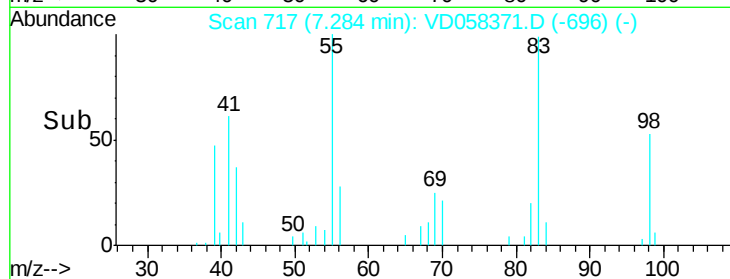
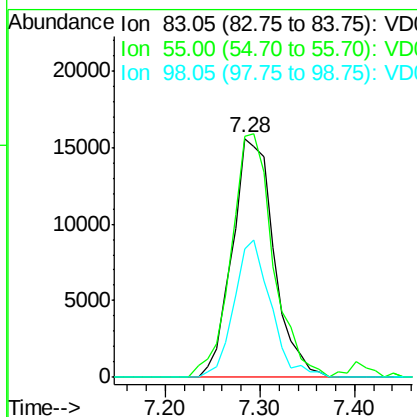
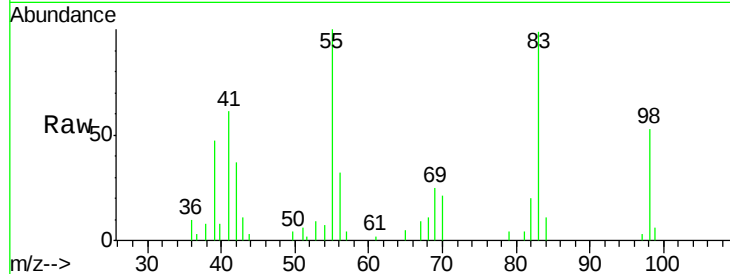
#39
Methvlcvclohexane
Concen: 4.85 ug/l
RT: 7.28 min Scan# 717
Delta R.T. 0.00 min
Lab File: VD058371.D
Acq: 24 Jun 2018 14:57

Instrument :
MSVOA_D
ClientSampleId :
DUP-0478-180621

Tot Ion	Ratio	Lower	Upper
83	100		
55	101.1	77.4	116.2
98	53.8	35.9	53.9

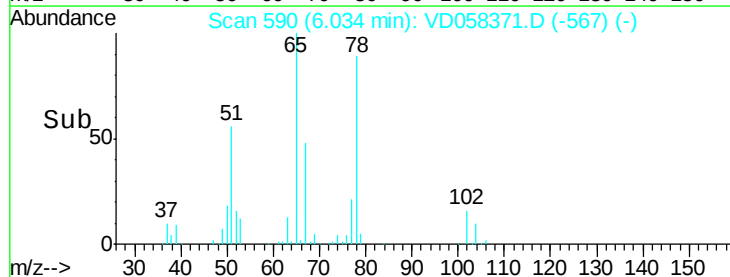
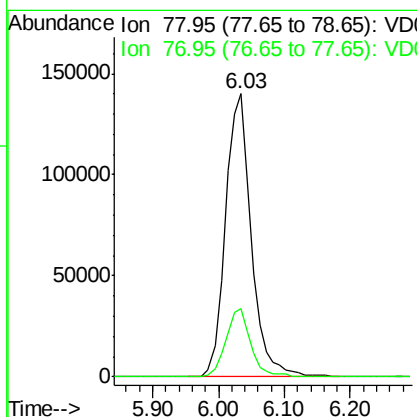
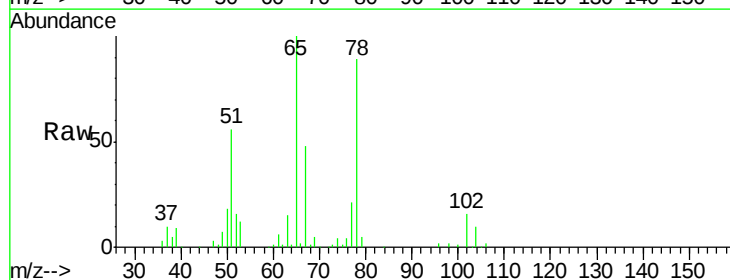
Manual Integrations
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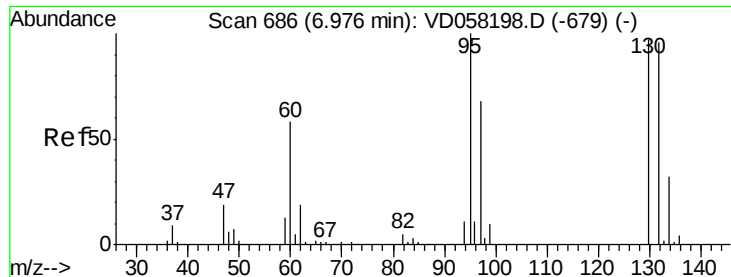
apatel
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#40
Benzene
Concen: 16.08 ug/l
RT: 6.03 min Scan# 590
Delta R.T. 0.02 min
Lab File: VD058371.D
Acq: 24 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.5	27.7





#44

Trichloroethene

Concen: 21.74 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

DUP-0478-180621

Tot Ion:130 Resp: 156055

Ion Ratio Lower Upper

130 100

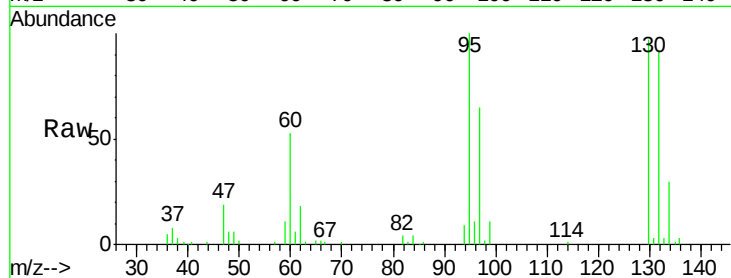
95 103.2 0.0 205.6

Manual Integrations

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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

6.99

80000

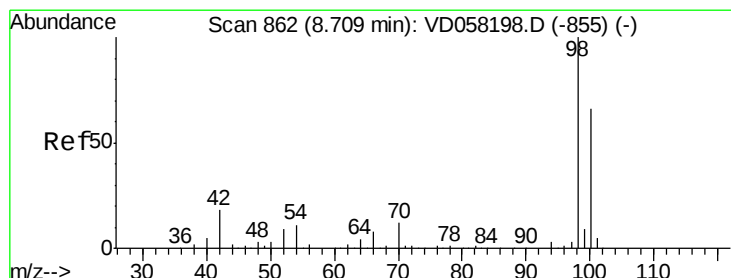
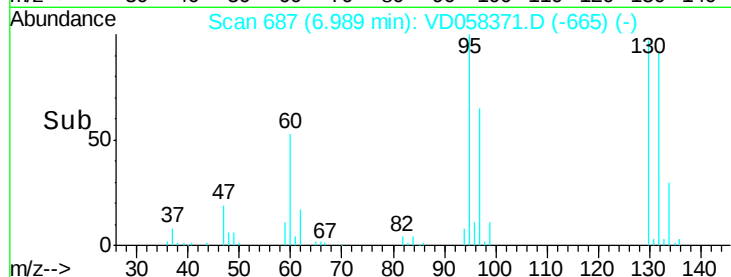
60000

40000

20000

0

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058371.D

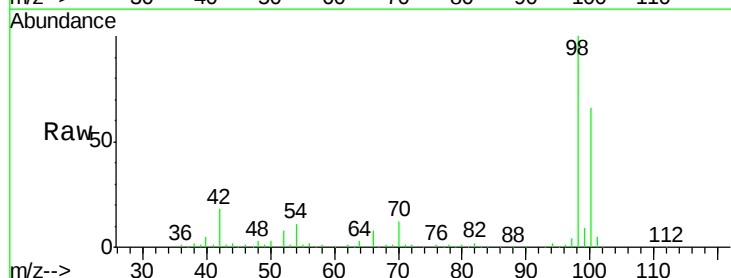
Acq: 24 Jun 2018 14:57

Tgt Ion: 98 Resp: 1003191

Ion Ratio Lower Upper

98 100

100 66.3 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

8.72

500000

400000

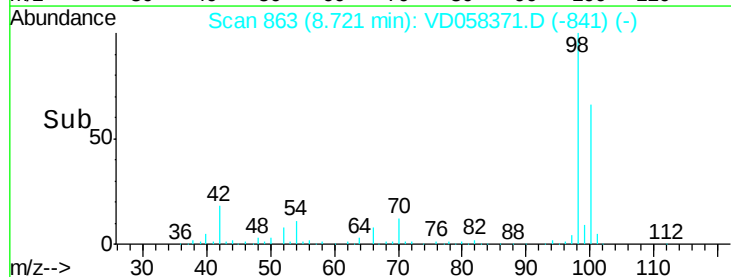
300000

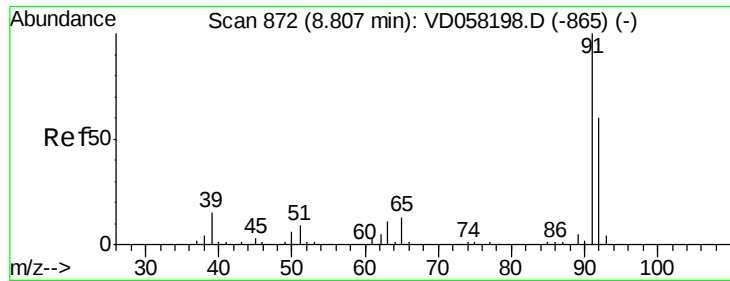
200000

100000

0

Time-->





#52

Toluene

Concen: 8.85 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

DUP-0478-180621

Tot Ion: 92 Resp: 120491

Ion Ratio Lower Upper

92 100

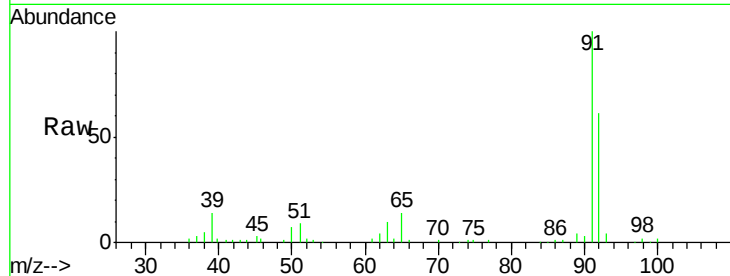
91 165.2 133.2 199.8

Manual Integrations

APPROVED

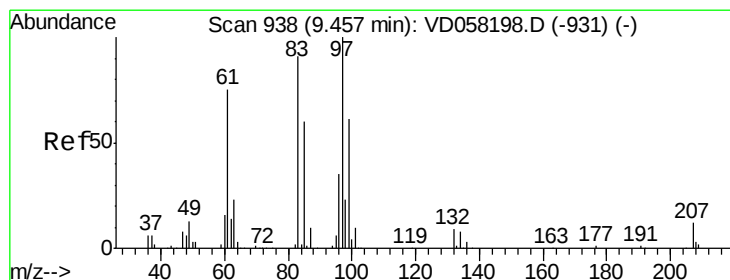
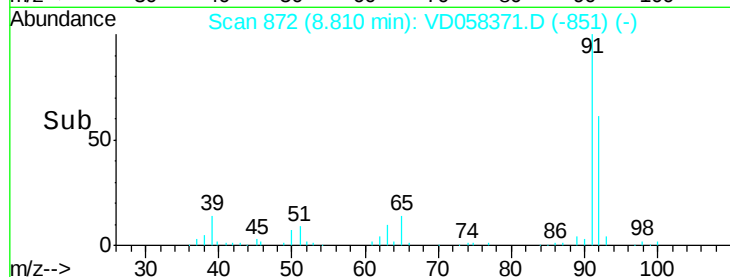
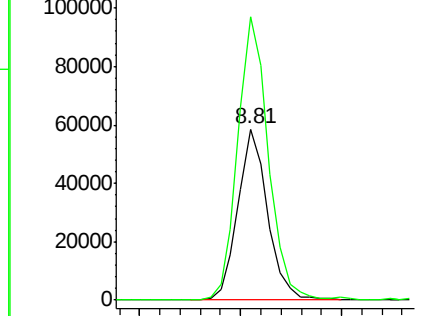
apatel

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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: 20.08 ug/l

RT: 9.47 min Scan# 939

Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Tgt Ion: 97 Resp: 96693

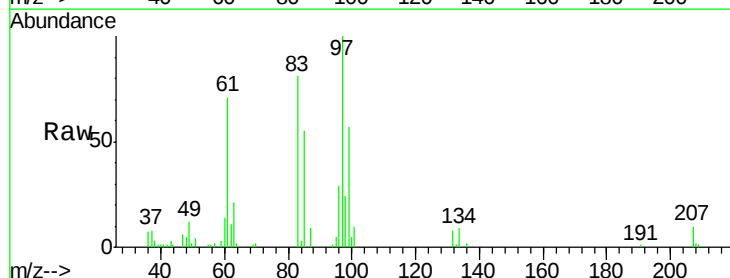
Ion Ratio Lower Upper

97 100

83 80.9 72.9 109.3

85 54.7 48.2 72.4

99 56.7 48.9 73.3

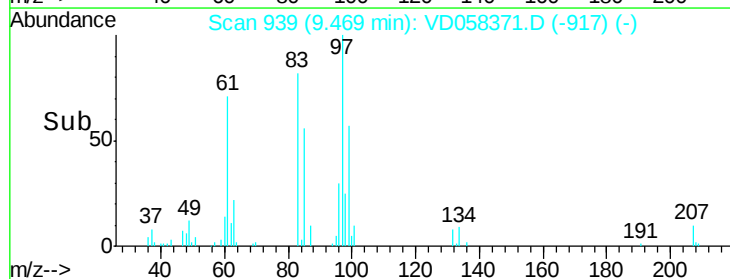
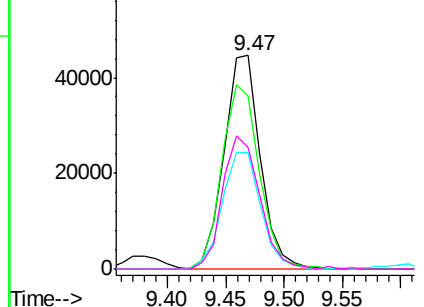


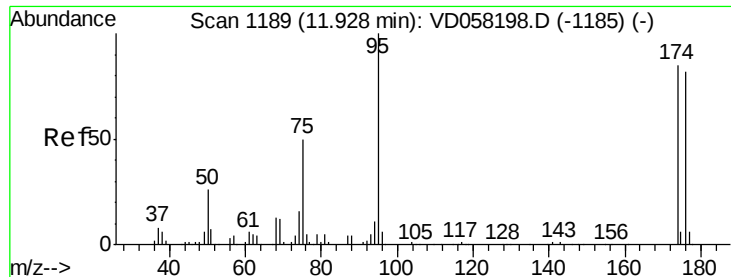
Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

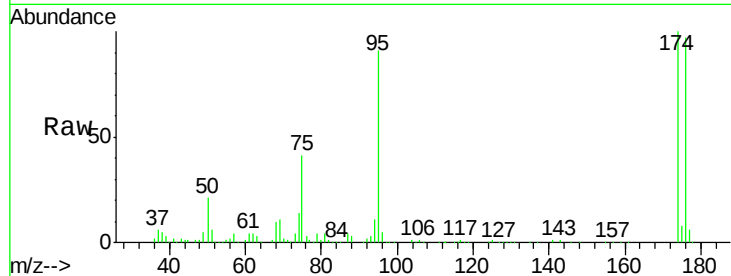
ClientSampleId :

DUP-0478-180621

Tot Ion:	95	Resp:	439417
Ion Ratio	Lower	Upper	
95	100		
174	109.4	0.0	170.2
176	106.0	0.0	164.6

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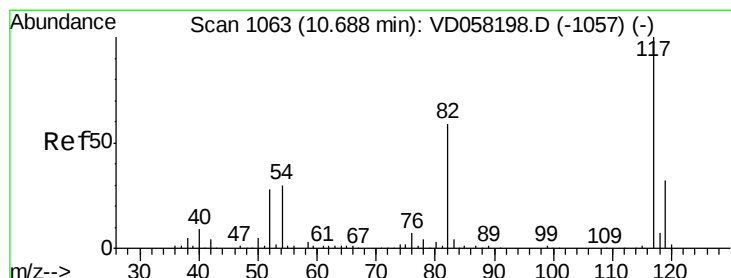
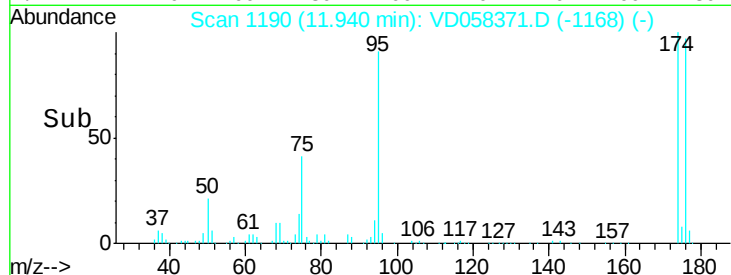
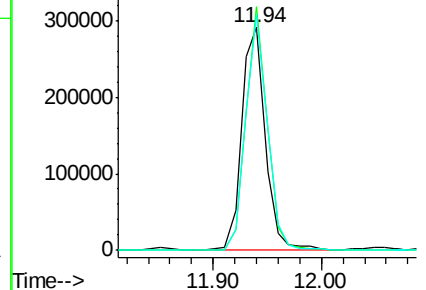
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Abundance Ion 95.00 (94.70 to 95.70): V

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

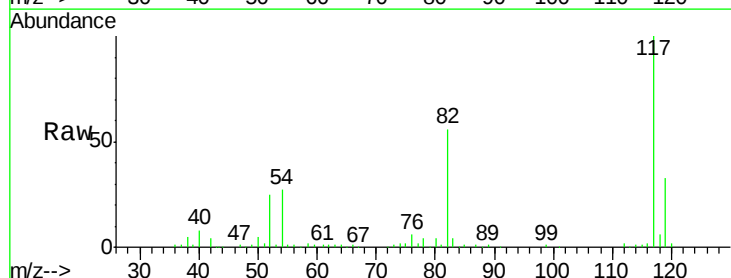
RT: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

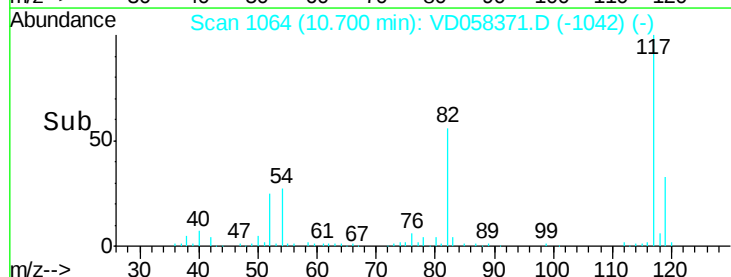
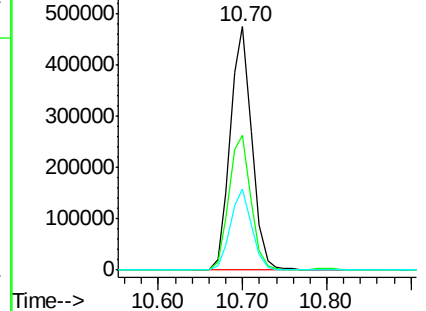
Tgt Ion:	117	Resp:	843145
Ion Ratio	Lower	Upper	
117	100		
82	55.5	47.0	70.6
119	33.4	25.3	37.9

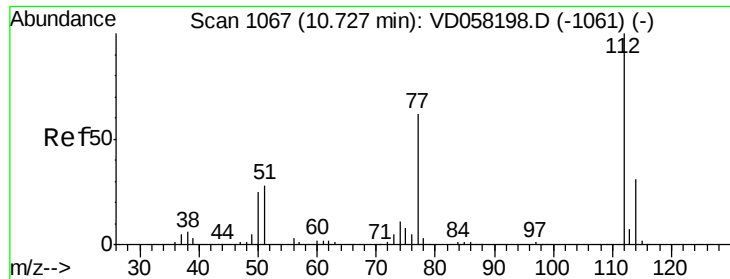


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





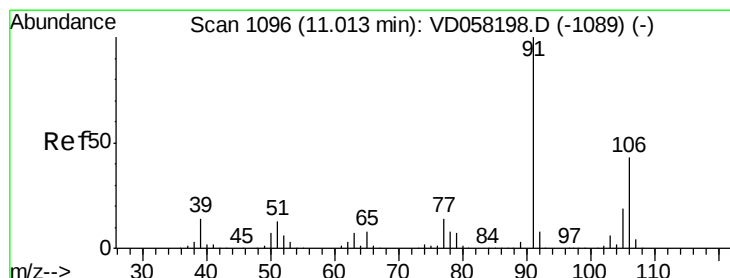
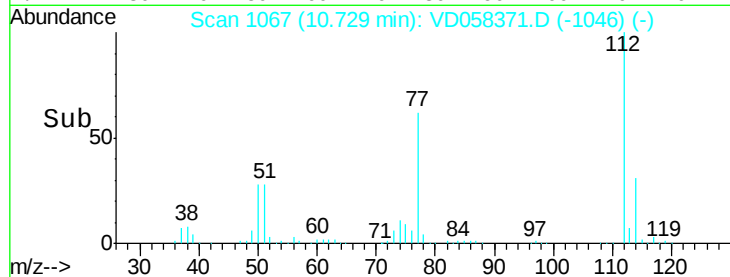
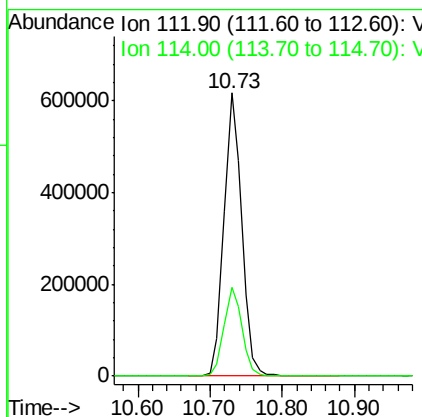
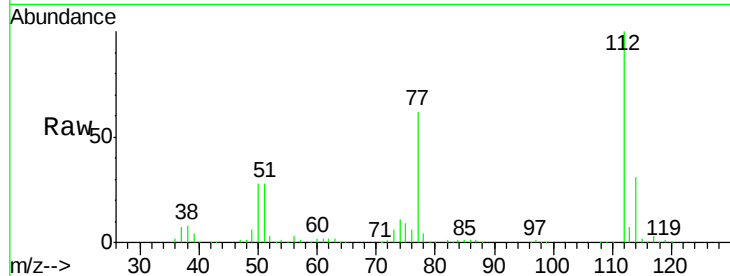
#65
Chlorobenzene
Concen: 66.88 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058371.D
Acq: 24 Jun 2018 14:57

Instrument :
MSVOA_D
ClientSampleId :
DUP-0478-180621

Tot Ion:112 Resp: 1054848
Ion Ratio Lower Upper
112 100
114 31.3 25.0 37.4

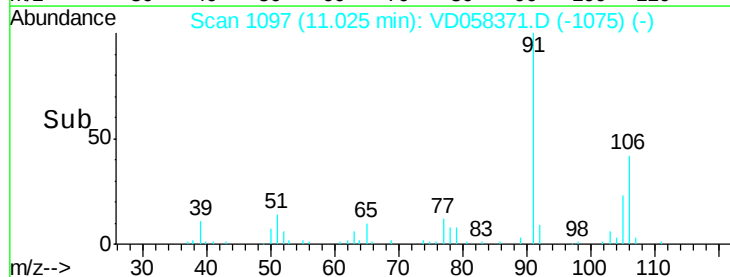
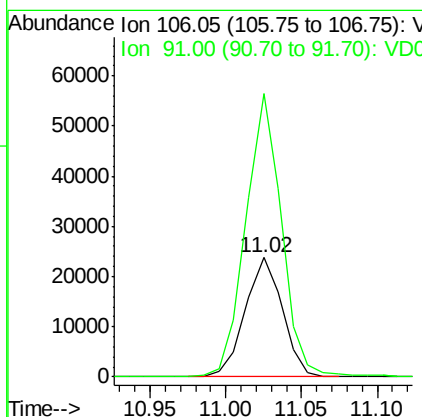
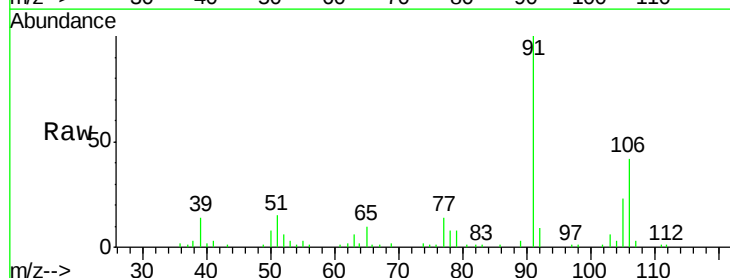
Manual Integrations
APPROVED

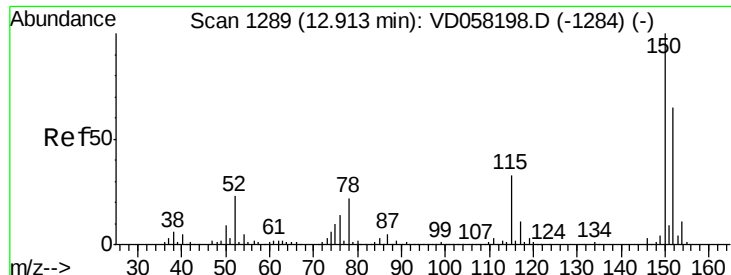
apatel
6/25/2018 6:13:32 PM



#68
m/p-Xylenes
Concen: 4.39 ug/l
RT: 11.02 min Scan# 1097
Delta R.T. 0.01 min
Lab File: VD058371.D
Acq: 24 Jun 2018 14:57

Tgt Ion:106 Resp: 40772
Ion Ratio Lower Upper
106 100
91 237.1 185.0 277.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

DUP-0478-180621

Tot Ion:152 Resp: 444175

Ion Ratio Lower Upper

152 100

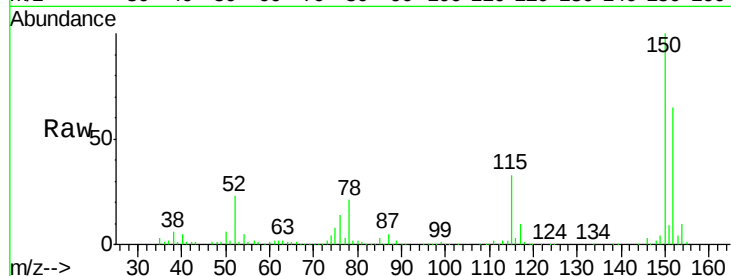
115 51.1 25.1 75.3

150 153.8 0.0 308.8

Manual Integrations
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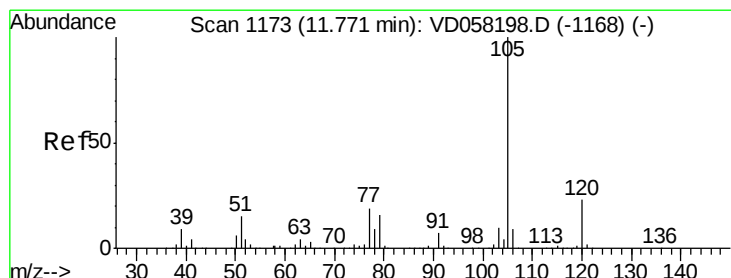
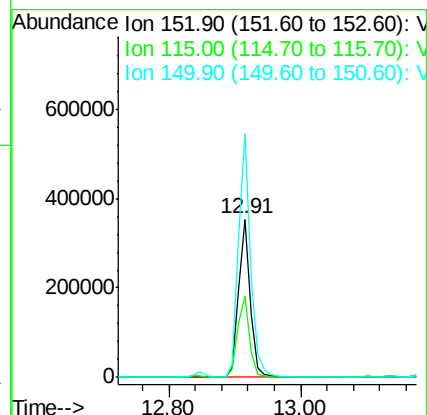
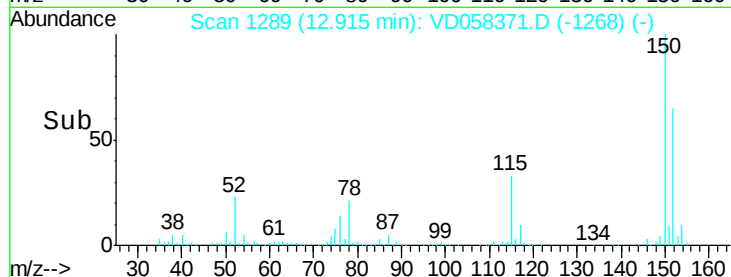
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.69 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058371.D

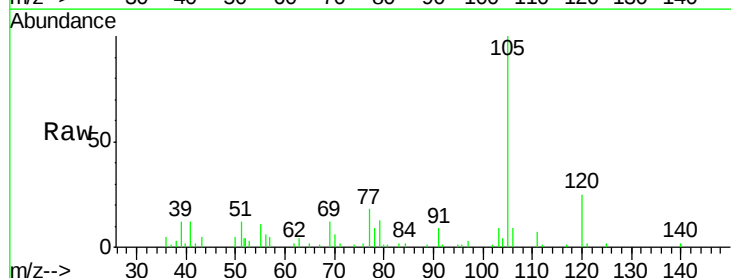
Acq: 24 Jun 2018 14:57

Tgt Ion:105 Resp: 44780

Ion Ratio Lower Upper

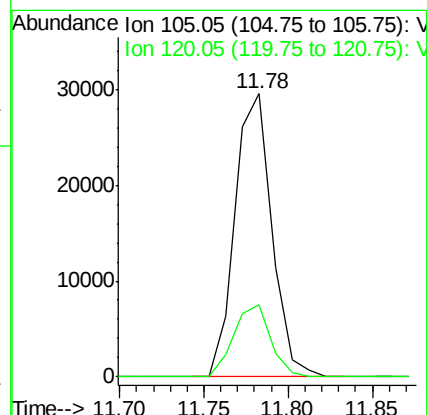
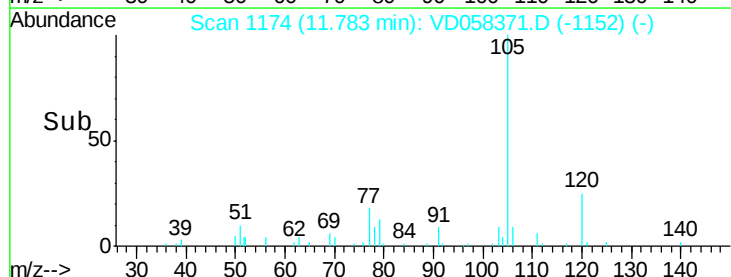
105 100

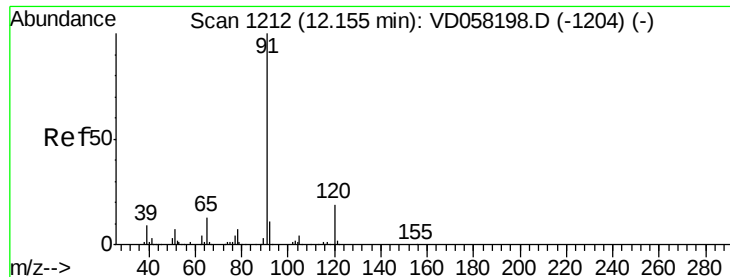
120 25.3 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 1.81 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VD058371.D

Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

DUP-0478-180621

Tot Ion: 91 Resp: 62079

Ion Ratio Lower Upper

91 100

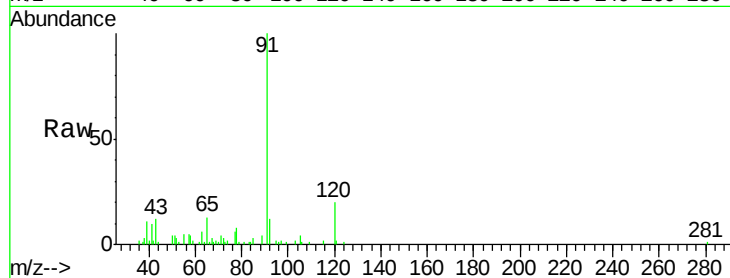
120 19.7 9.7 29.1

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Abundance Ion 91.00 (90.70 to 91.70): VD058198.D (-1204) (-)

Ion 120.05 (119.75 to 120.75): VD058198.D (-1204) (-)

12.16

50000

40000

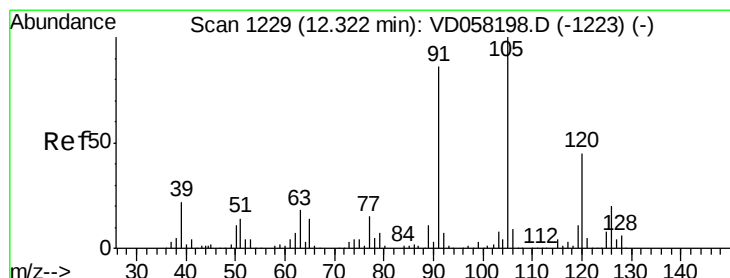
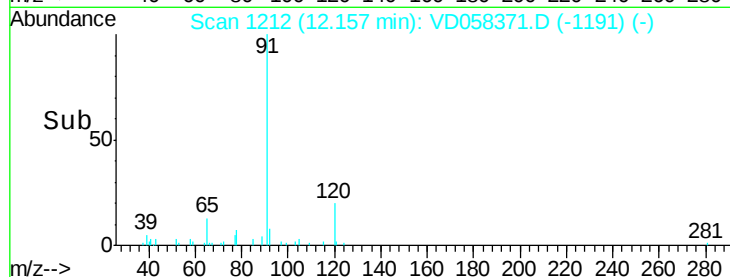
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 6.85 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058371.D

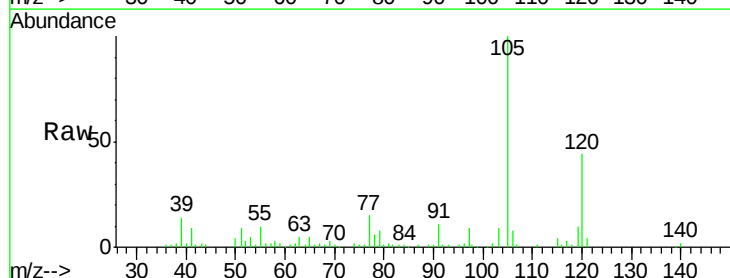
Acq: 24 Jun 2018 14:57

Tgt Ion: 105 Resp: 141955

Ion Ratio Lower Upper

105 100

120 44.1 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): VD058198.D (-1223) (-)

Ion 120.05 (119.75 to 120.75): VD058198.D (-1223) (-)

12.32

120000

100000

80000

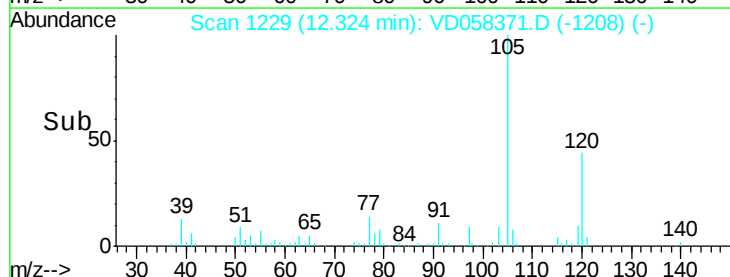
60000

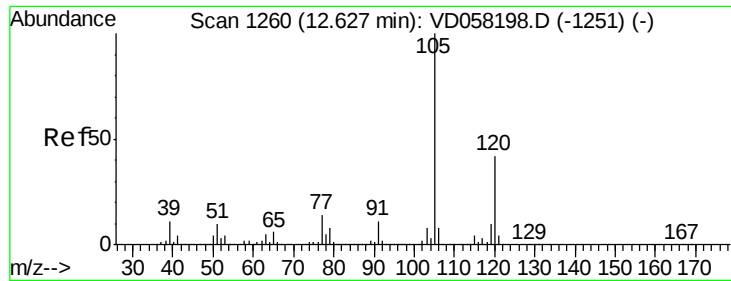
40000

20000

0

Time-->





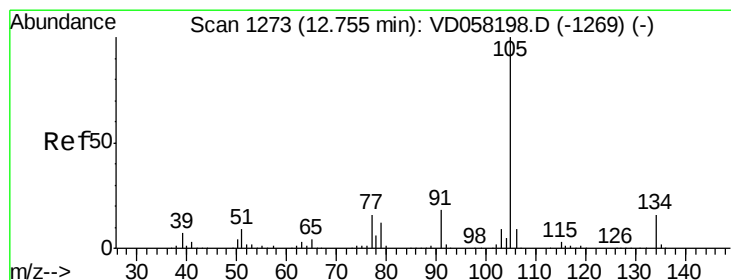
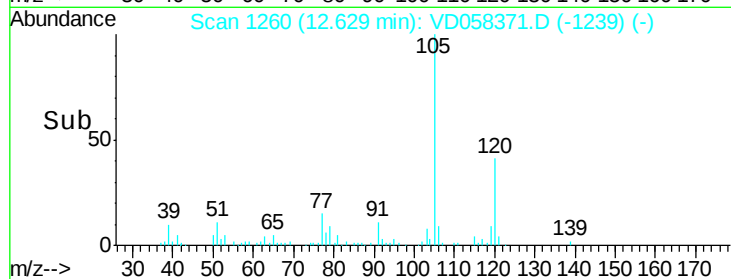
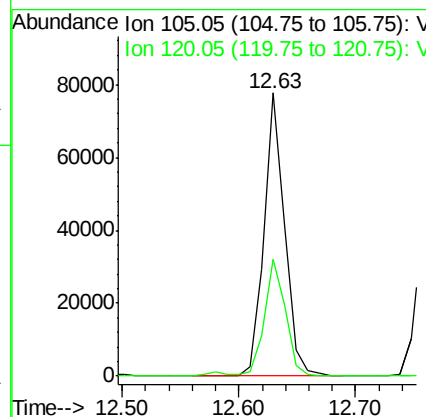
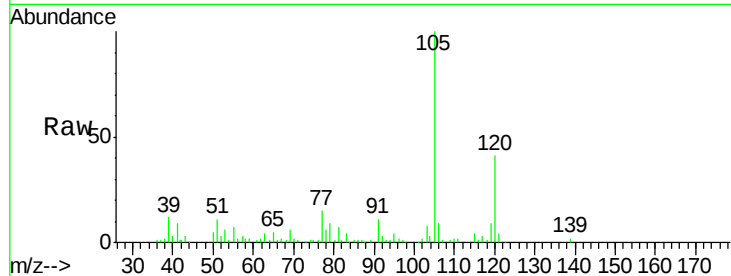
#84
 1,2,4-Trimethylbenzene
 Concen: 4.22 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0478-180621

Tot Ion	Ratio	Lower	Upper
105	100		
120	41.2	20.8	62.4

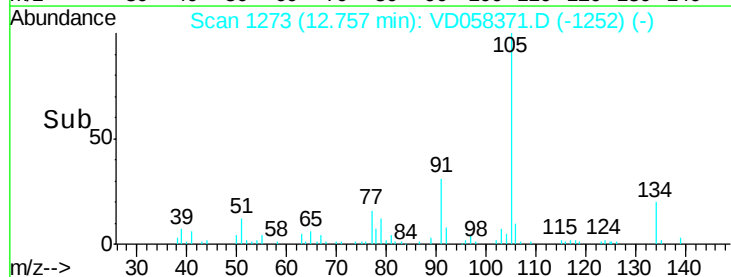
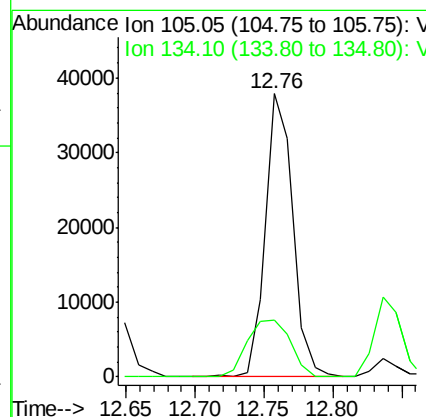
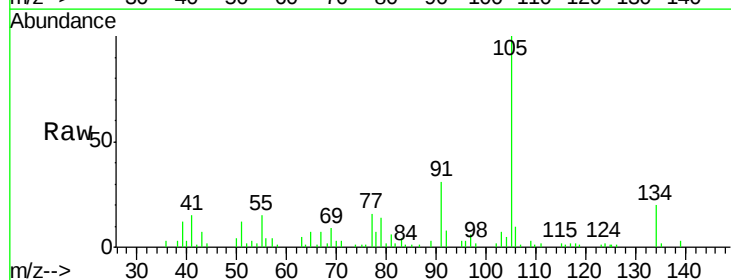
Manual Integrations
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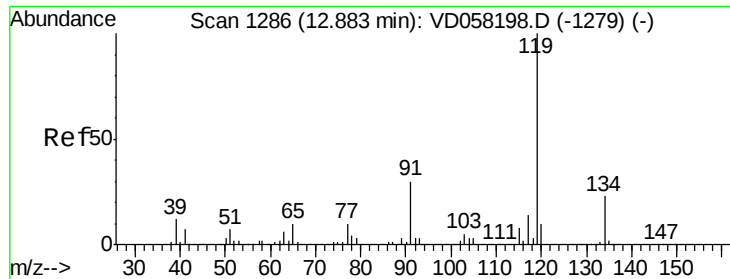
apatel
 6/25/2018 6:13:32 PM



#85
 sec-Butylbenzene
 Concen: 1.89 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.2	8.1	24.3





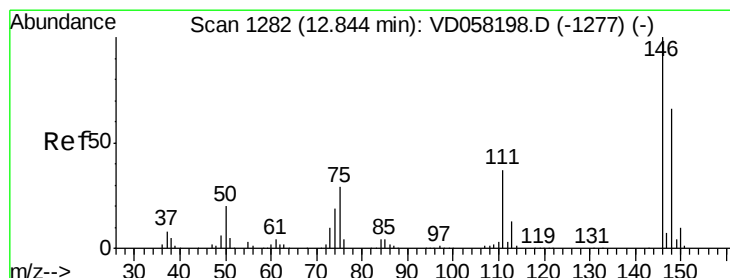
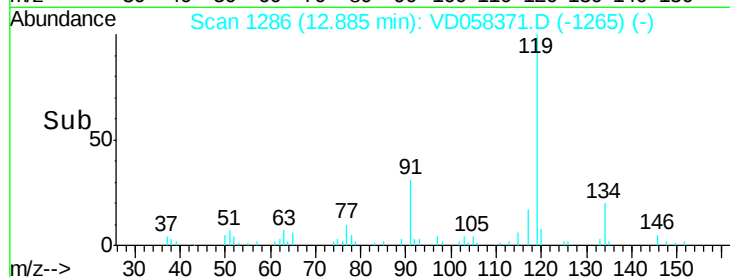
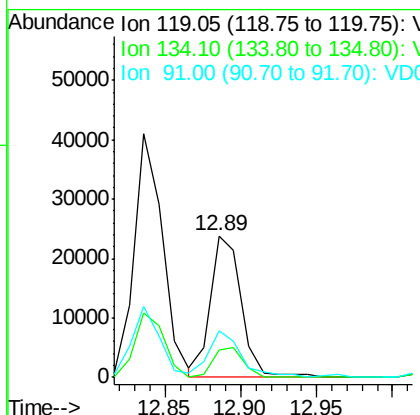
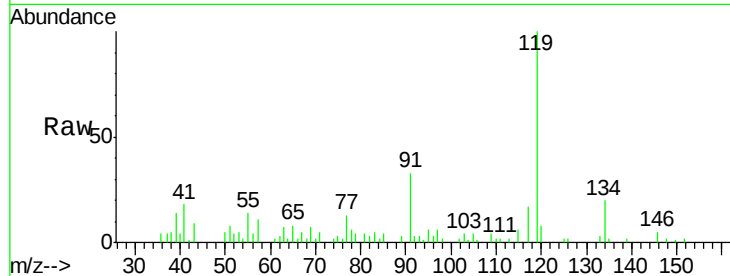
#86
 p-Isopropyltoluene
 Concen: 1.51 ug/l
 RT: 12.89 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0478-180621

Tot Ion	Ratio	Lower	Upper
119	100		
134	19.8	11.6	34.8
91	32.8	15.0	45.1

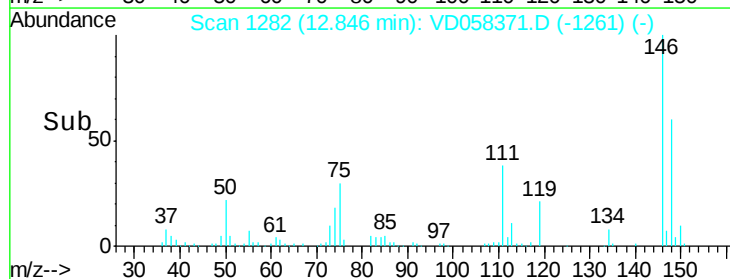
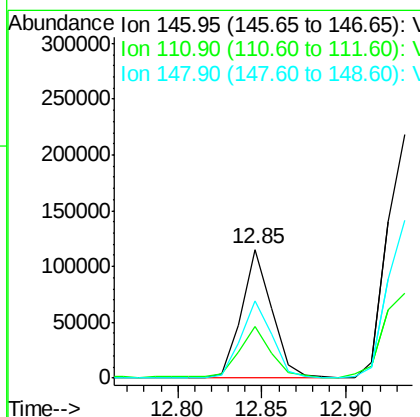
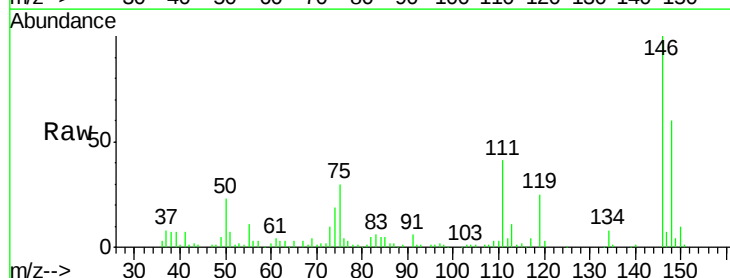
Manual Integrations
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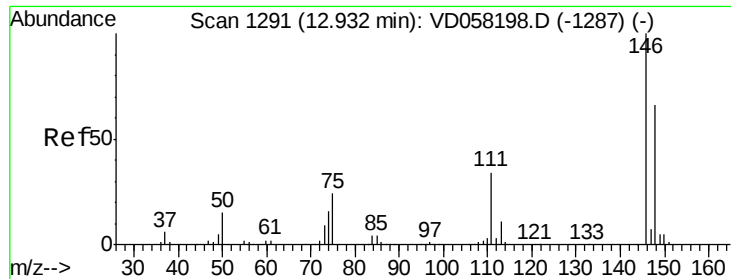
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#87
 1,3-Dichlorobenzene
 Concen: 10.44 ug/l
 RT: 12.85 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	18.4	55.0
148	60.2	32.8	98.4





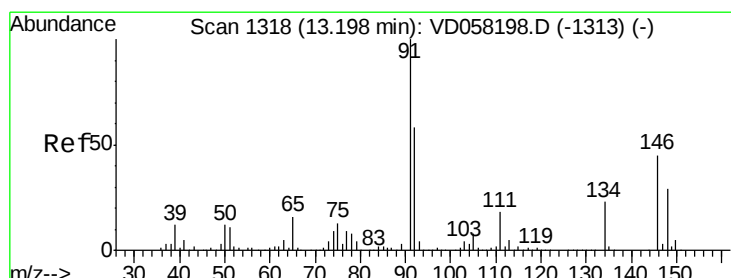
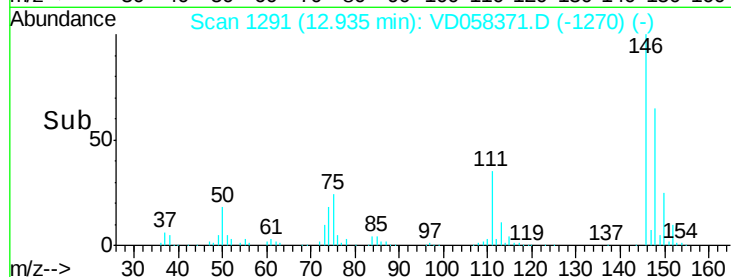
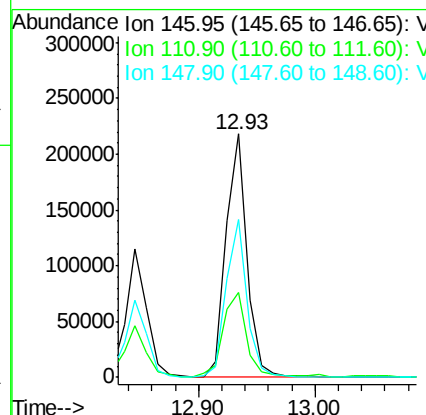
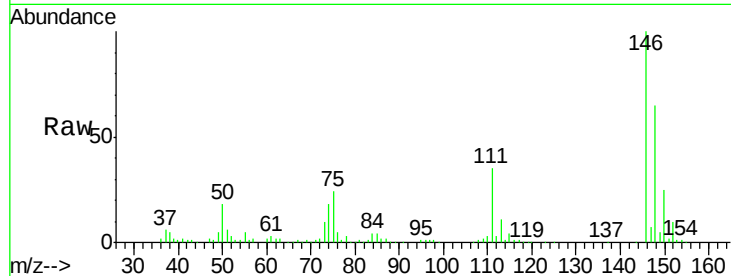
#88
 1,4-Dichlorobenzene
 Concen: 20.28 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Instrument :
 MSVOA_D
 ClientSampleId :
 DUP-0478-180621

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.9	17.2	51.5
148	64.8	33.1	99.3

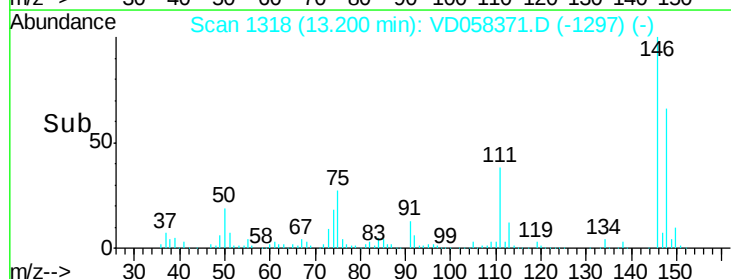
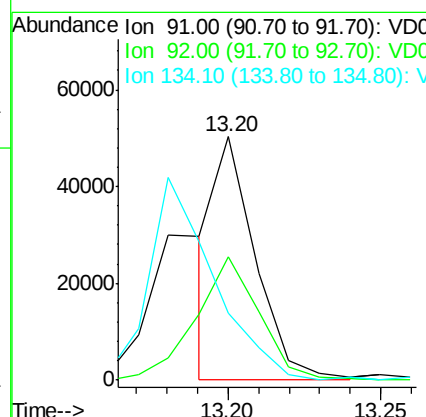
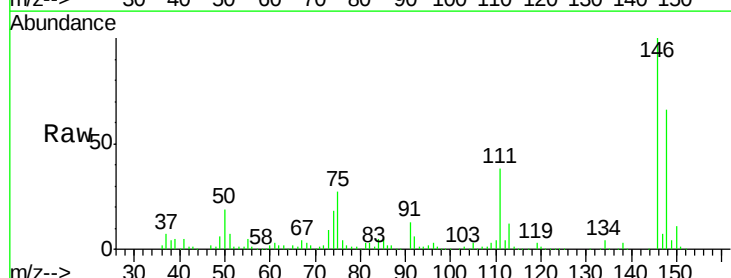
Manual Integrations
 APPROVED

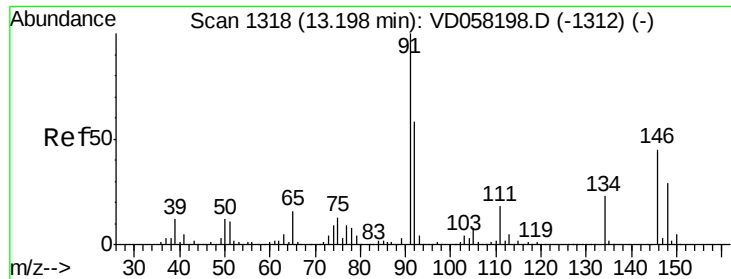
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#89
 n-Butylbenzene
 Concen: 1.95 ug/l m
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058371.D
 Acq: 24 Jun 2018 14:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.7	29.2	87.6
134	27.6	11.3	33.8





#91

1,2-Dichlorobenzene

Concen: 43.13 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VD058371.D

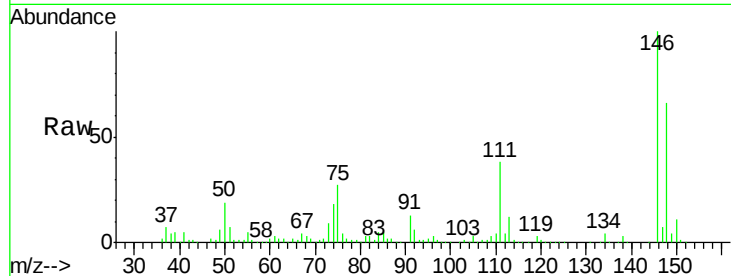
Acq: 24 Jun 2018 14:57

Instrument :

MSVOA_D

ClientSampleId :

DUP-0478-180621



Tot Ion:	146	Resp:	507521
Ion Ratio	Lower	Upper	
146	100		
111	38.5	19.6	58.7
148	65.6	32.0	96.2

Manual Integrations
APPROVED

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