

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081619\
 Data File : VD063640.D
 Acq On : 16 Aug 2019 16:16
 Operator : JC/SY
 Sample : K4372-01RE
 Misc : 4.23g/5ml/MSVOA D/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMPOSITE RE

Manual Integrations
 APPROVED

MMDadoda
 8/19/2019 10:56:18 AM

Quant Time: Aug 17 07:02:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	664009	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	911110	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	518523	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	139717	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	403840	56.90	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	113.80%	
35) Dibromofluoromethane	6.92	113	410363	53.48	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.96%	
50) Toluene-d8	10.40	98	636926	37.75	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	75.50%	
62) 4-Bromofluorobenzene	13.55	95	172295	22.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	45.06%	
Target Compounds						
					Qvalue	
16) Acetone	3.22	43	228655	158.477	ug/l	98
20) Methylene Chloride	3.81	84	49401	7.918	ug/l #	87
25) 2-Butanone	6.07	43	27039	18.975	ug/l #	87
31) Cyclohexane	6.95	56	38256	5.969	ug/l #	78
40) Benzene	7.46	78	23003	1.298	ug/l #	83
52) Toluene	10.51	92	113725	9.961	ug/l	97
65) Chlorobenzene	12.39	112	291520	29.997	ug/l	97
67) Ethyl Benzene	12.52	91	201925	11.950	ug/l	92
68) m/p-Xylenes	12.67	106	16495	2.778	ug/l	74
69) o-Xylene	13.04	106	16412	2.872	ug/l	99
73) Isopropylbenzene	13.40	105	633886	71.329	ug/l	93
78) n-propylbenzene	13.77	91	66189	6.366	ug/l	93
80) 1,3,5-Trimethylbenzene	13.88	105	2328020	299.820	ug/l	71
84) 1,2,4-Trimethylbenzene	14.23	105	107244	14.927	ug/l	99
85) sec-Butylbenzene	14.36	105	18255	2.102	ug/l	81
86) p-Isopropyltoluene	14.49	119	172153	20.735	ug/l	95
87) 1,3-Dichlorobenzene	14.45	146	47743	10.867	ug/l	92
88) 1,4-Dichlorobenzene	14.54	146	96482	22.890	ug/l	98
89) n-Butylbenzene	14.78	91	18584m	2.453	ug/l	
95) Naphthalene	16.12	128	95483	22.972	ug/l	98

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

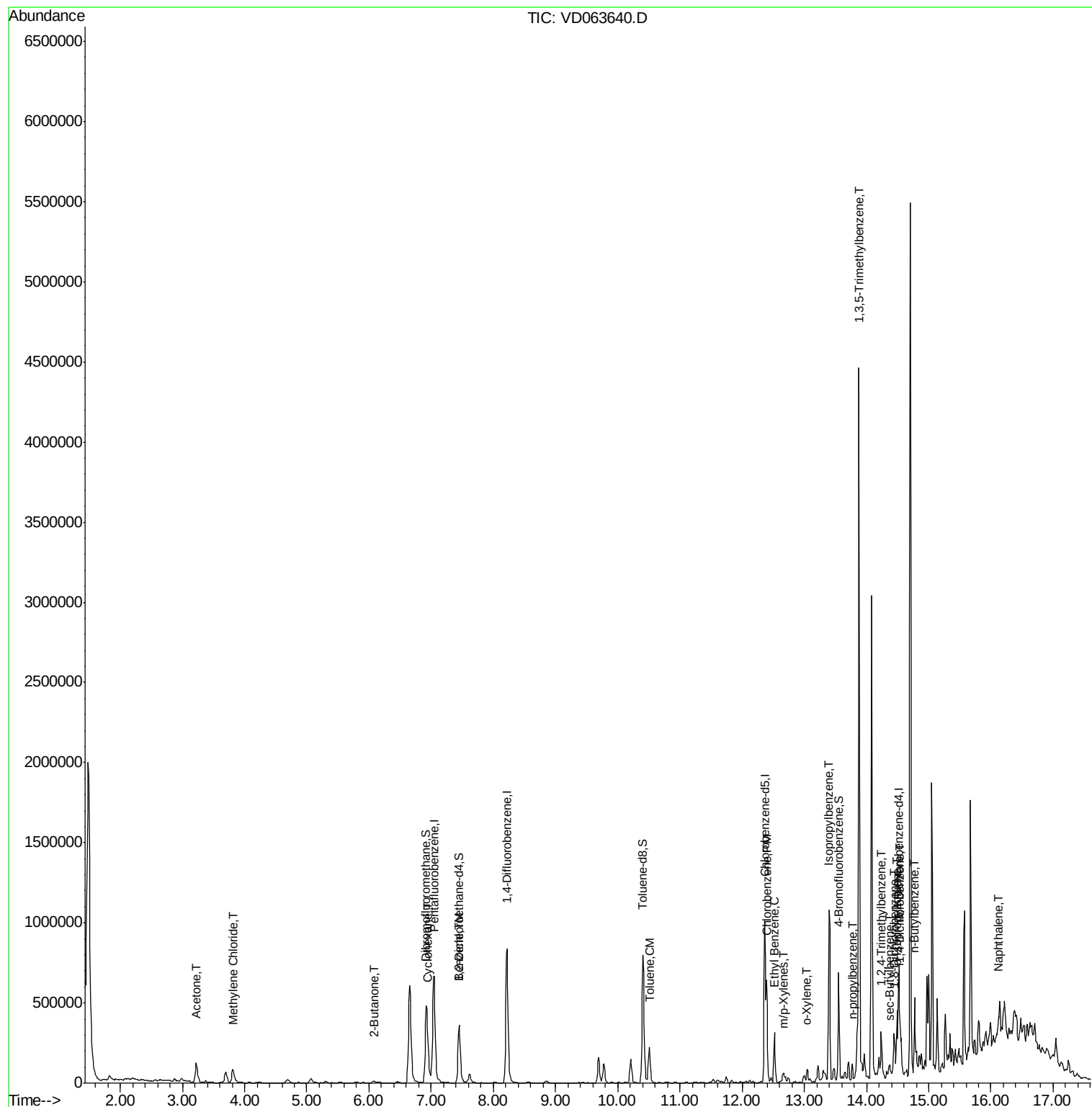
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081619\
Data File : VD063640.D
Acq On : 16 Aug 2019 16:16
Operator : JC/SY
Sample : K4372-01RE
Misc : 4.23g/5ml/MSVOA D/SOIL
ALS Vial : 25 Sample Multiplier: 1

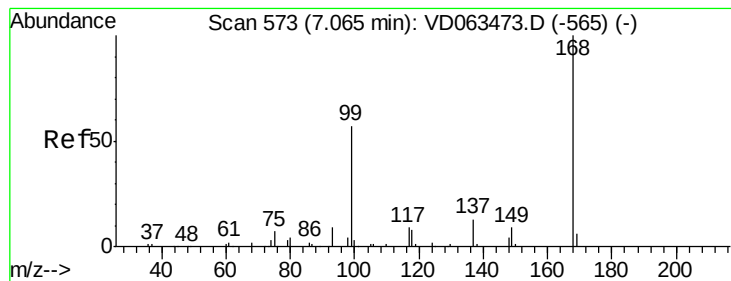
Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

Manual Integrations
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8/19/2019 10:56:18 AM

Quant Time: Aug 17 07:02:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMPOSITE RE

Tot Ion:168 Resp: 664009

Ion Ratio Lower Upper

168 100

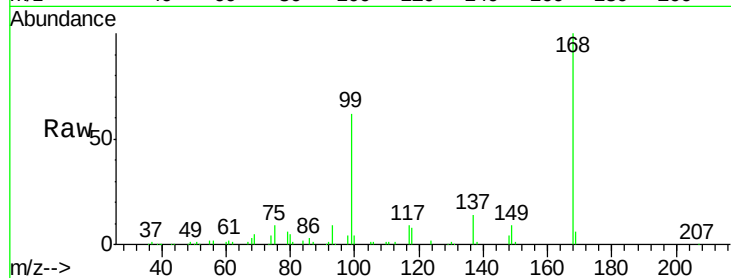
99 62.1 46.7 70.1

Manual Integrations

APPROVED

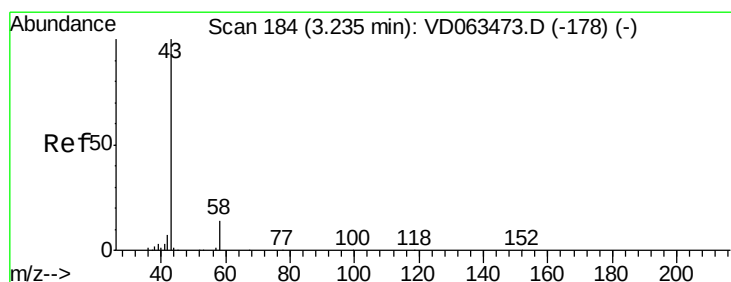
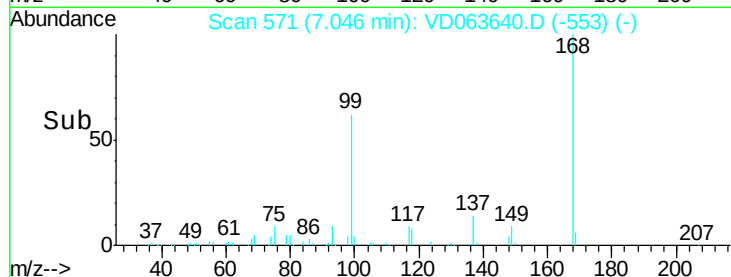
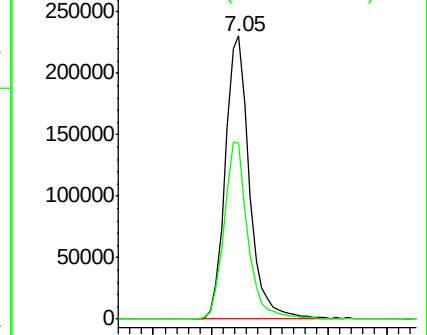
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 158.477 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063640.D

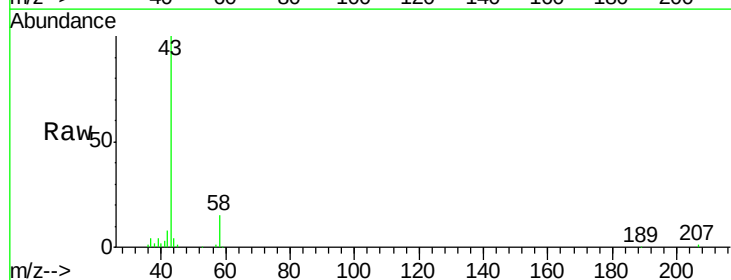
Acq: 16 Aug 2019 16:16

Tgt Ion: 43 Resp: 228655

Ion Ratio Lower Upper

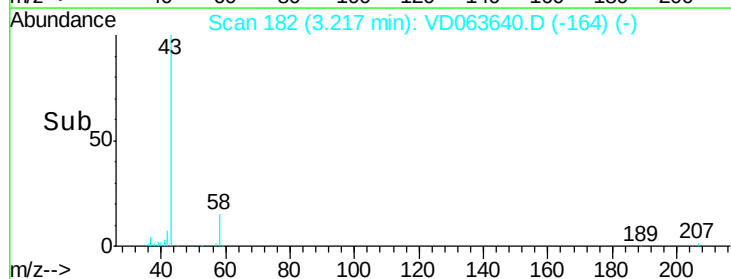
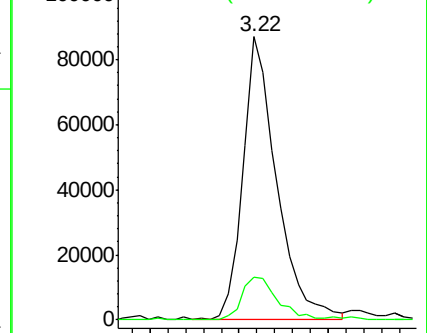
43 100

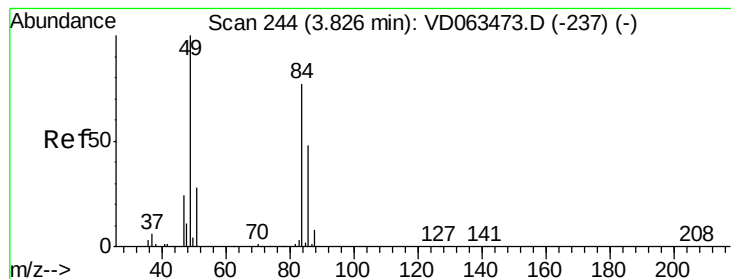
58 15.2 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





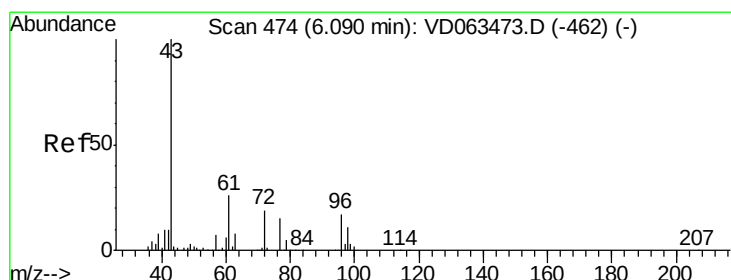
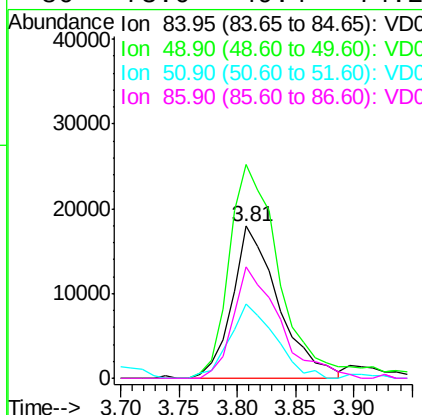
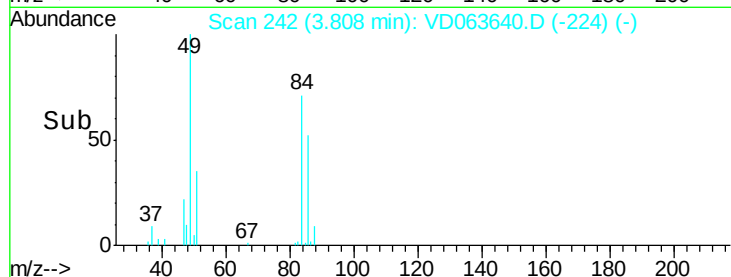
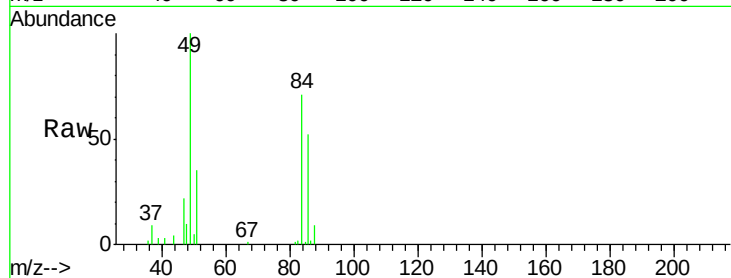
#20
Methvlene Chloride
Concen: 7.918 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

Tot Ion	Ratio	Lower	Upper
84	100		
49	140.5	103.4	155.2
51	48.6	28.5	42.7#
86	73.0	49.4	74.2

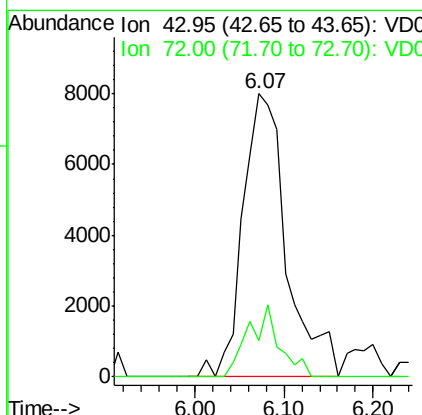
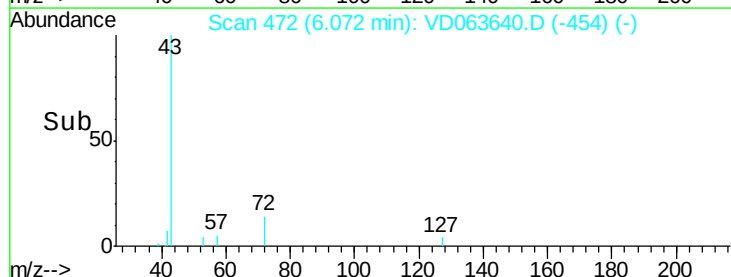
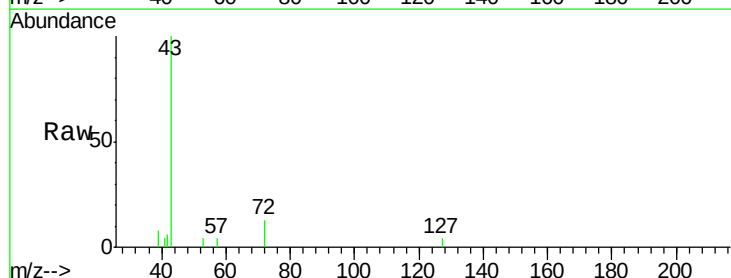
Manual Integrations
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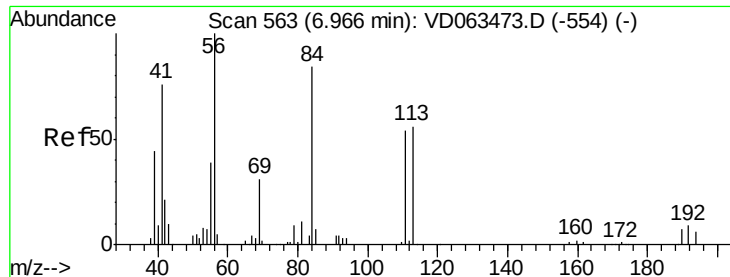
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#25
2-Butanone
Concen: 18.975 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	13.1	15.1	22.7#





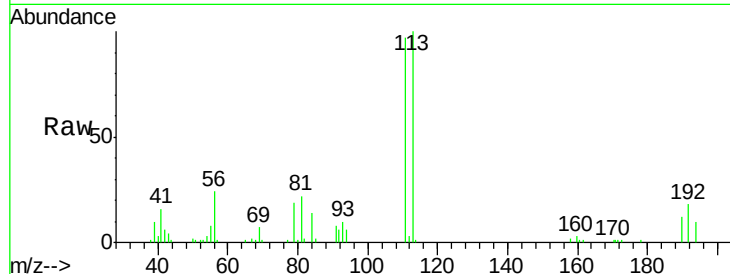
#31
Cyclohexane
Concen: 5.969 ug/l
RT: 6.95 min Scan# 561
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

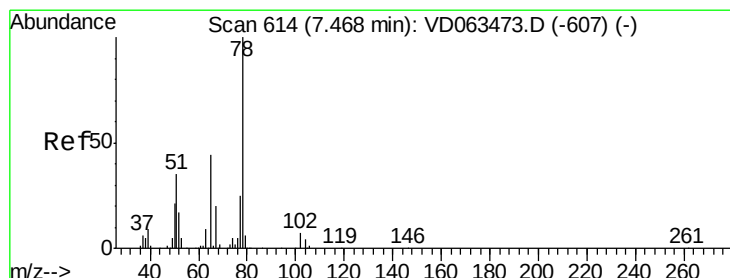
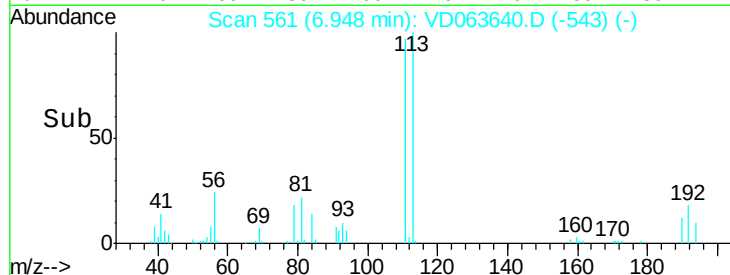
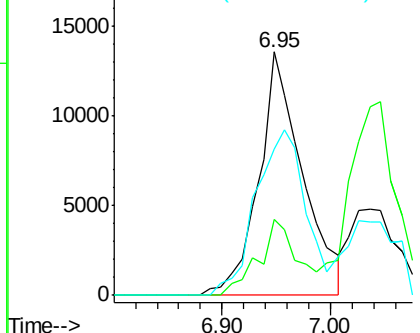
Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.0	37.6
84	60.1	69.7	104.5

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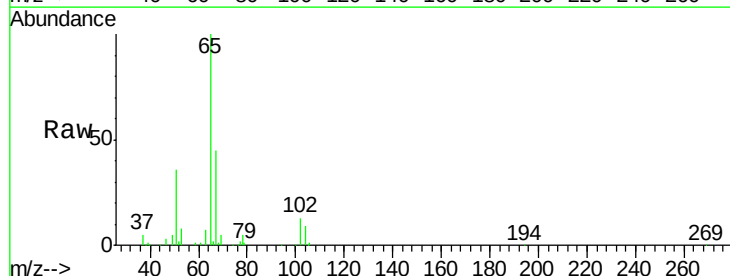


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

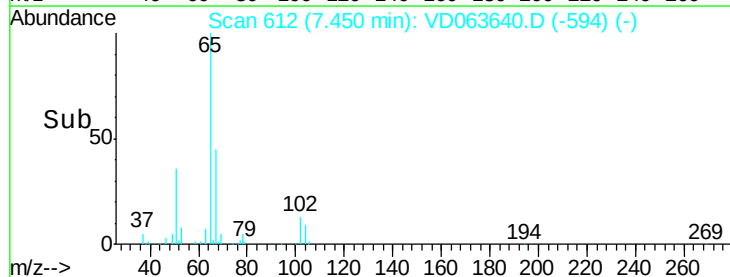
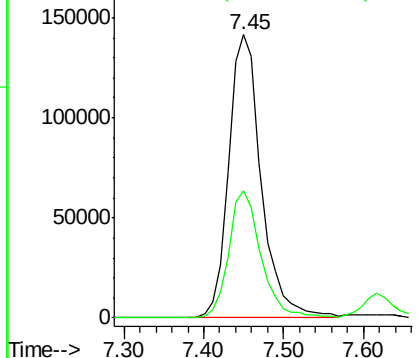


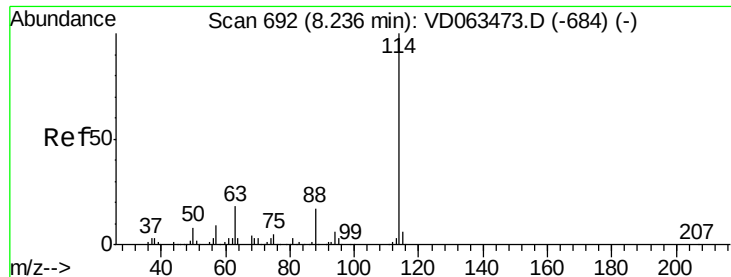
#33
1,2-Dichloroethane-d4
Concen: 56.897 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
65	100		
67	45.2	0.0	89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

Instrument :

MSVOA_D

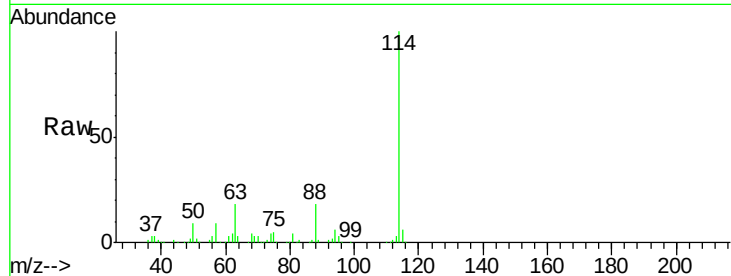
ClientSampleId :

SOIL-COMPOSITE RE

Tot Ion:	114	Resp:	911110
Ion Ratio		Lower	Upper
114	100		
63	17.9	0.0	36.2
88	18.2	0.0	35.0

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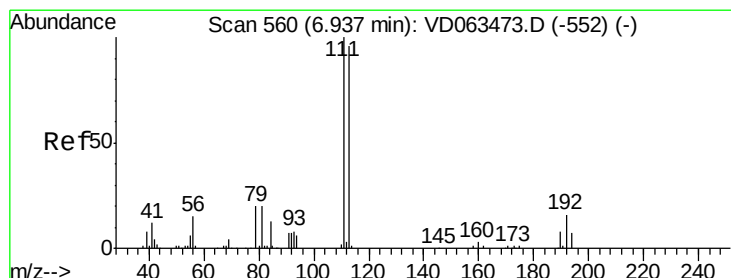
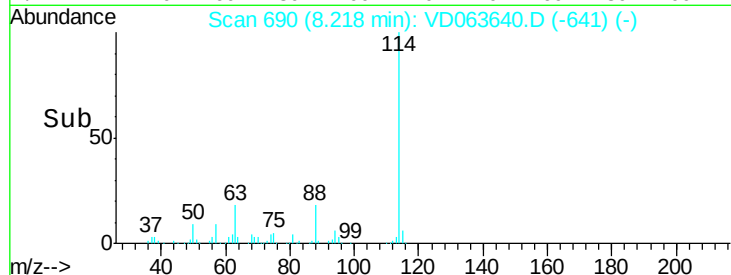
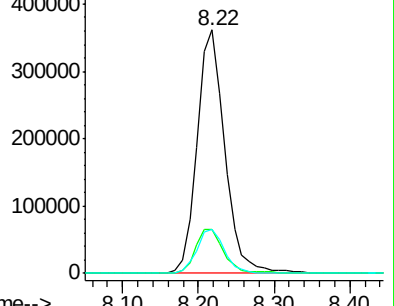
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Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 53.478 ug/l

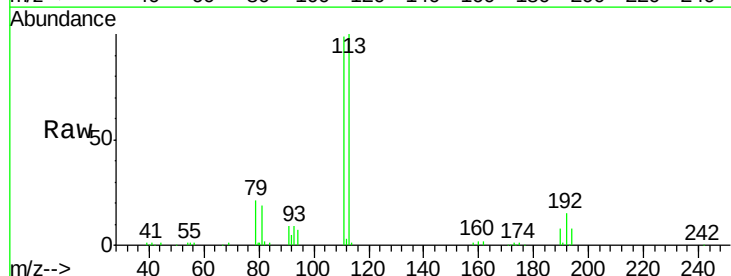
RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

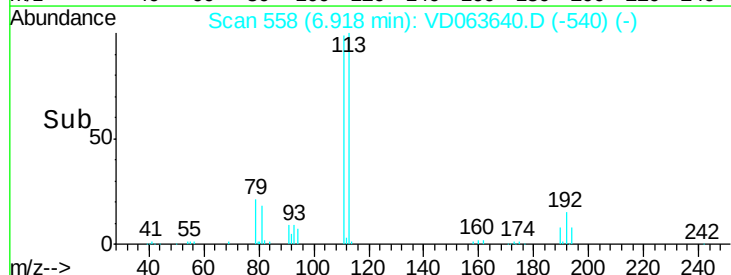
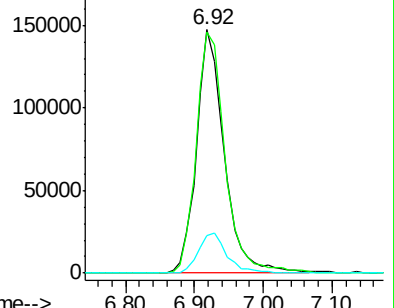
Tgt Ion:	113	Resp:	410363
Ion Ratio		Lower	Upper
113	100		
111	98.9	83.1	124.7
192	15.2	13.1	19.7

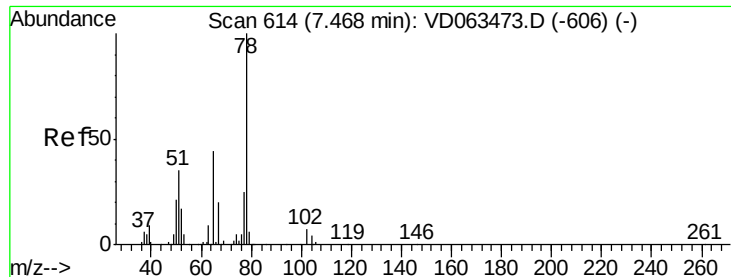


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





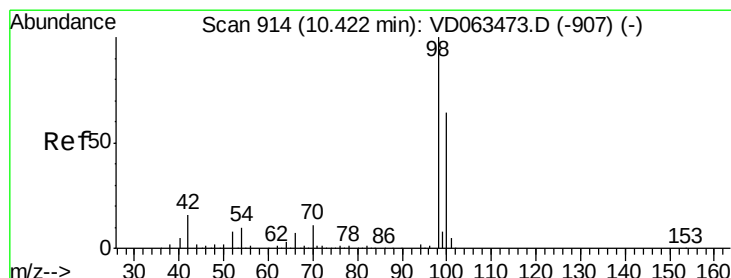
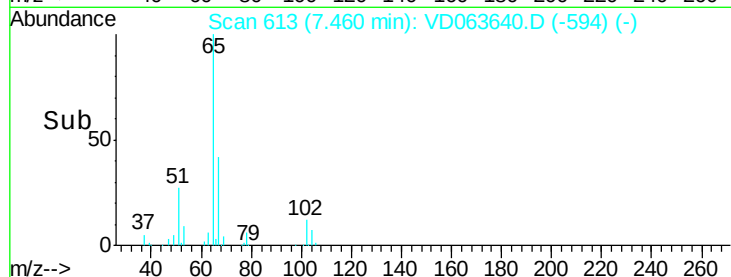
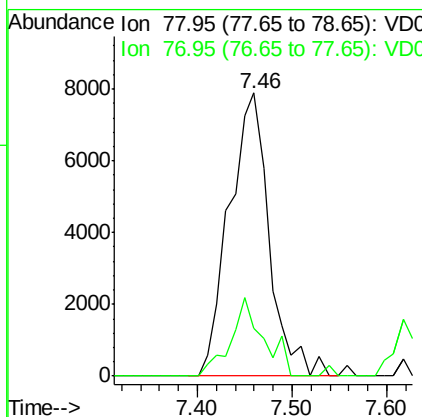
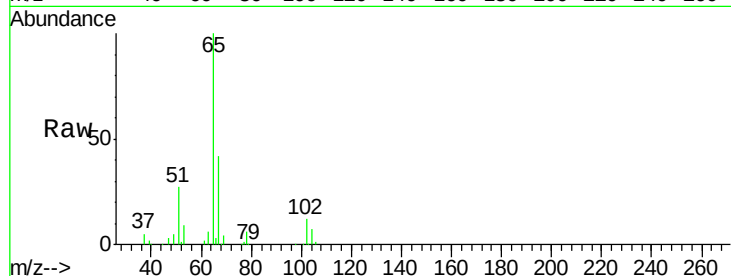
#40
Benzene
Concen: 1.298 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.01 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

Tot Ion: 78 Resp: 23003
Ion Ratio Lower Upper
78 100
77 16.7 20.1 30.1#

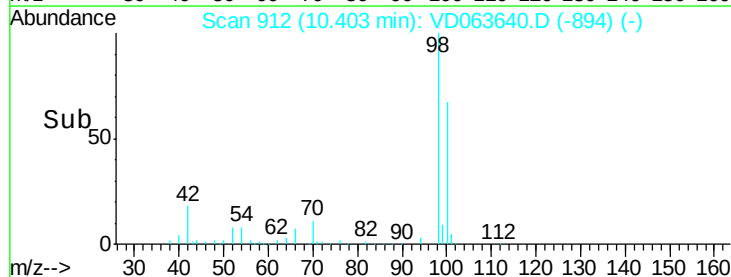
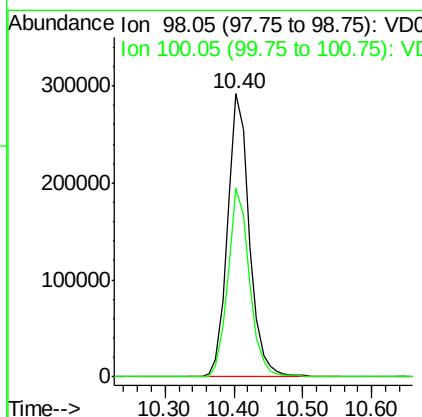
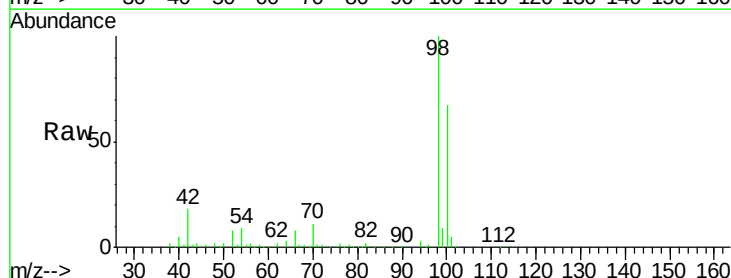
Manual Integrations
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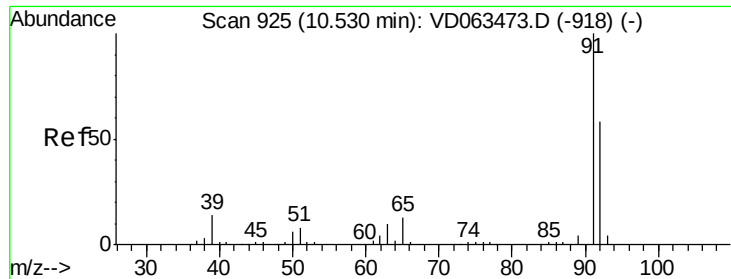
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#50
Toluene-d8
Concen: 37.754 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion: 98 Resp: 636926
Ion Ratio Lower Upper
98 100
100 66.5 51.7 77.5





#52

Toluene

Concen: 9.961 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.02 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMPOSITE RE

Tot Ion: 92 Resp: 113725

Ion Ratio Lower Upper

92 100

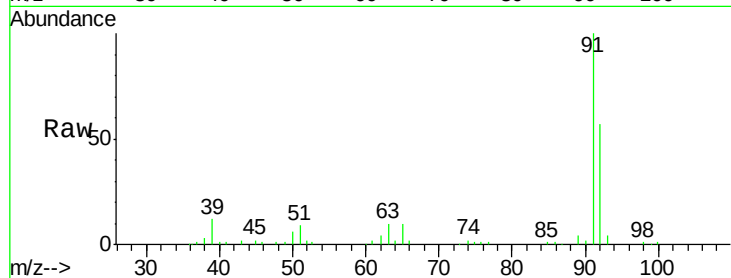
91 176.2 137.9 206.9

Manual Integrations

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8/19/2019 10:56:18 AM



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

100000

80000

60000

40000

20000

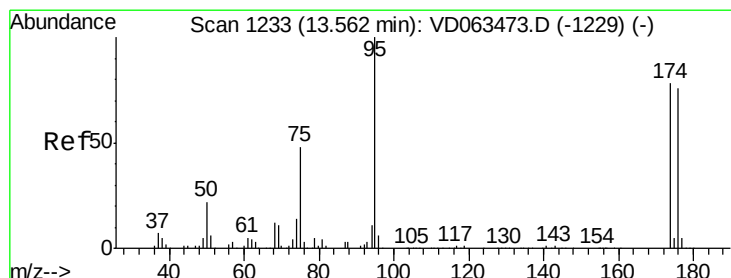
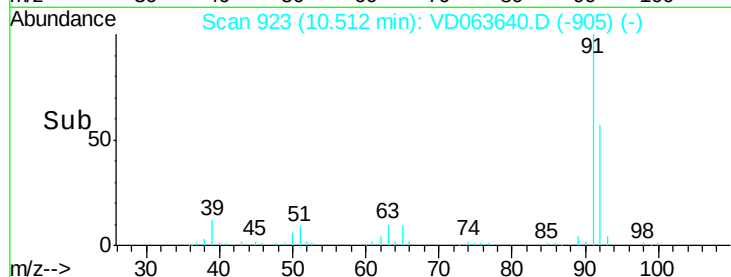
0

10.40

10.50

10.60

Time-->



#62

4-Bromofluorobenzene

Concen: 22.533 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

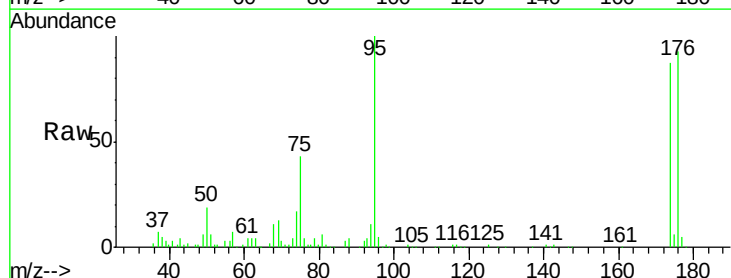
Tgt Ion: 95 Resp: 172295

Ion Ratio Lower Upper

95 100

174 86.8 0.0 155.4

176 92.7 0.0 152.4



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

150000

100000

50000

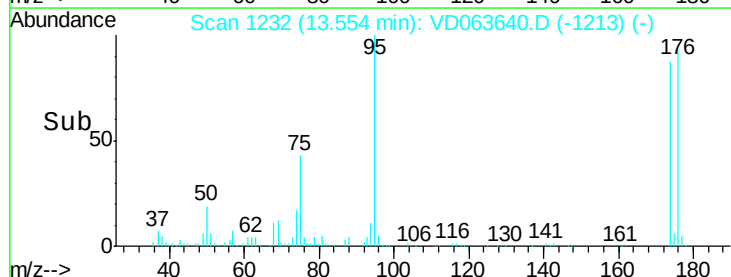
0

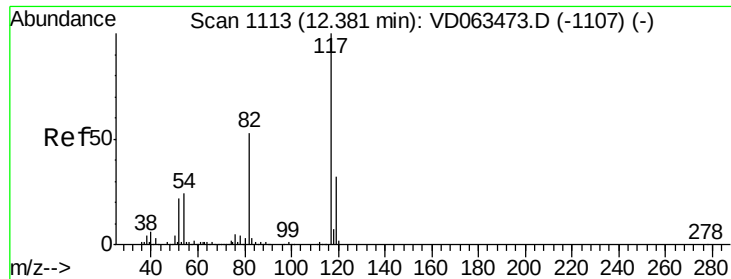
13.50

13.55

13.60

Time-->





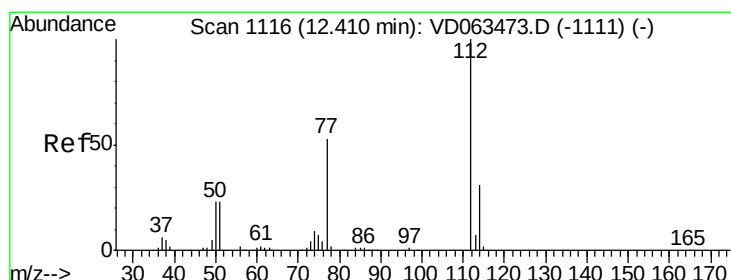
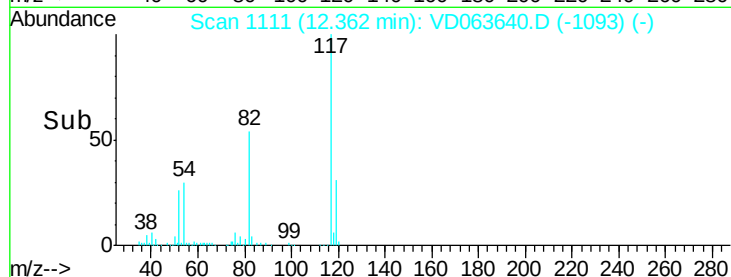
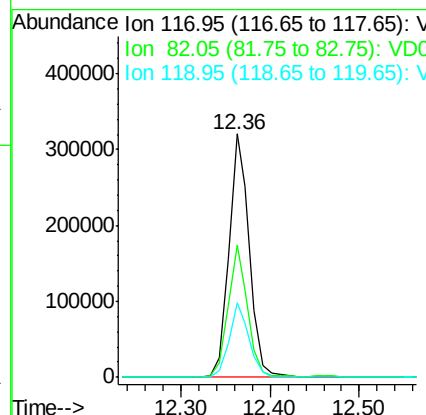
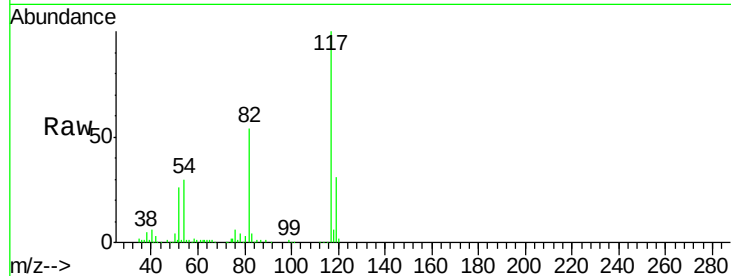
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

Tot Ion	Ratio	Resp	Lower	Upper
117	100	518523		
82	54.1	42.0	63.0	
119	30.8	25.4	38.0	

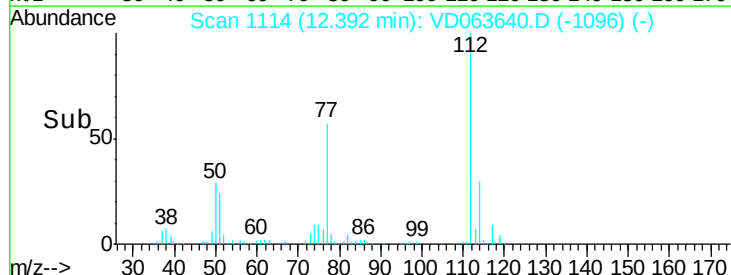
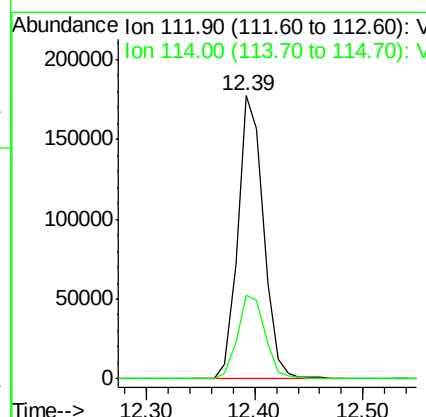
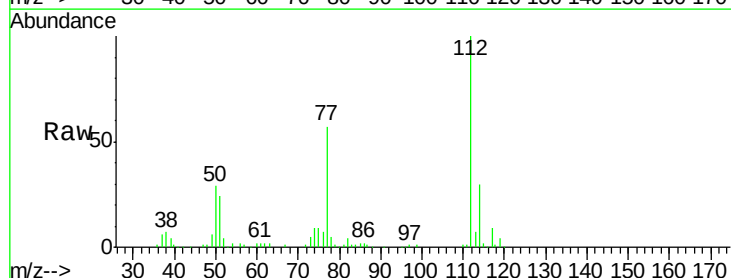
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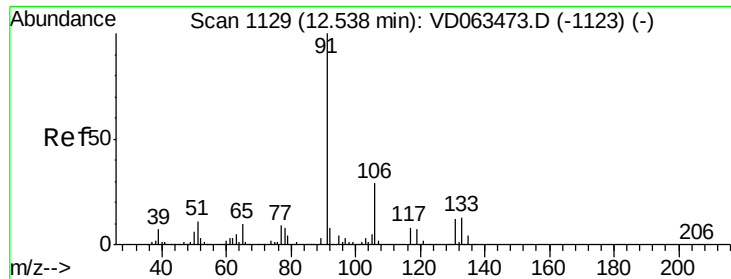
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#65
Chlorobenzene
Concen: 29.997 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	291520		
114	29.6	25.1	37.7	





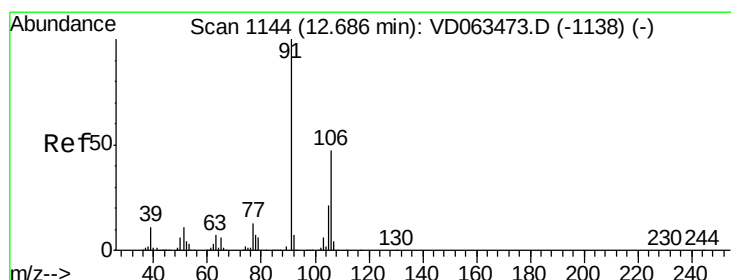
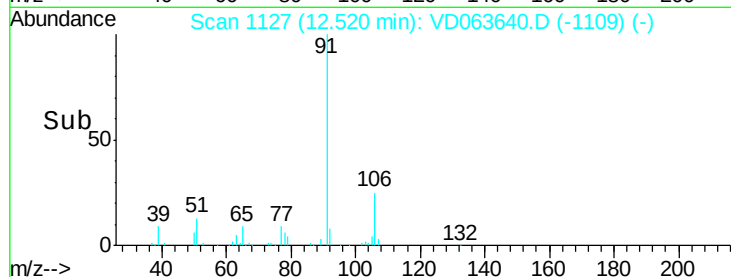
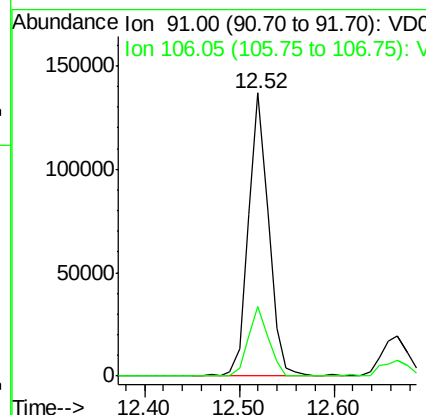
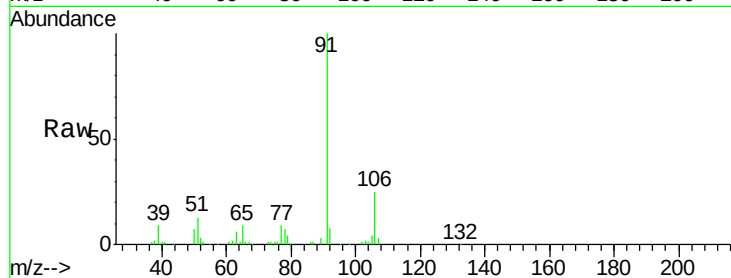
#67
Ethyl Benzene
Concen: 11.950 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

Tot Ion	Ratio	Resp	Lower	Upper
91	100	201925		
106	24.6	23.1	34.7	

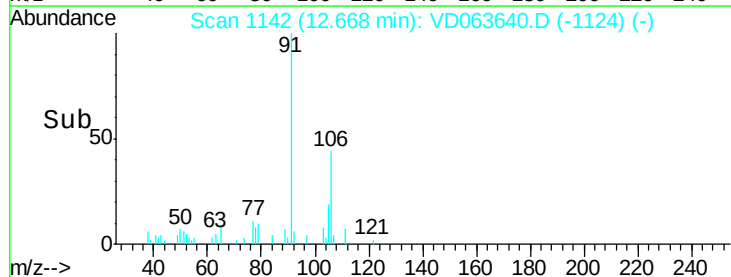
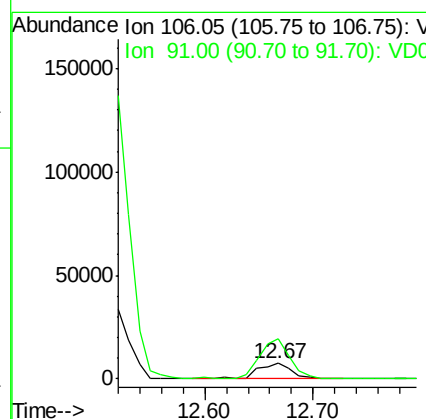
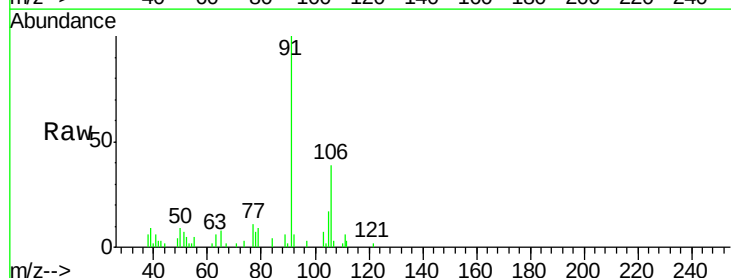
Manual Integrations
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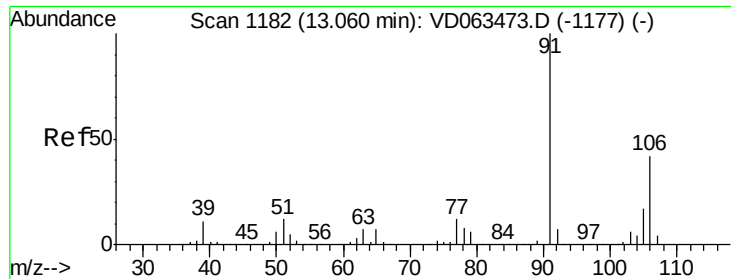
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#68
m/p-Xylenes
Concen: 2.778 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	16495		
91	256.2	171.8	257.8	





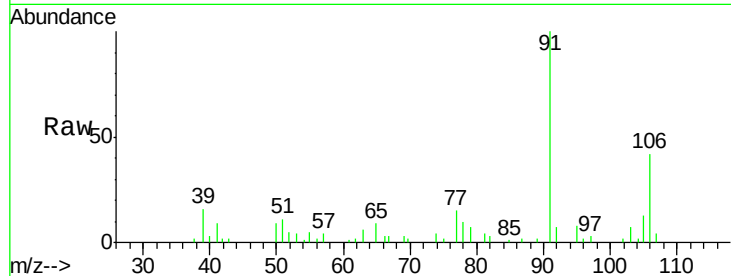
#69
o-Xylene
Concen: 2.872 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.02 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

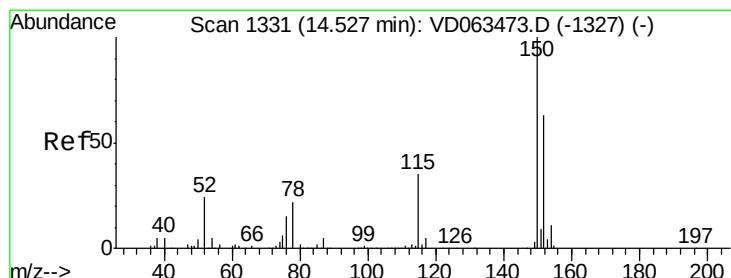
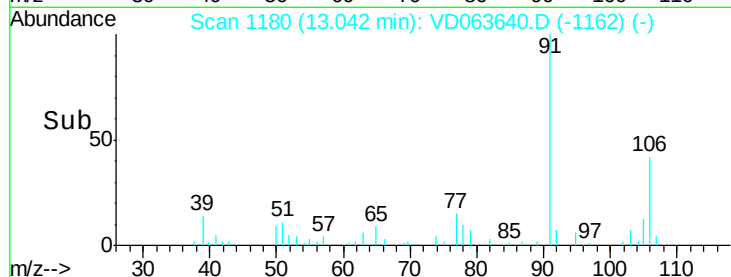
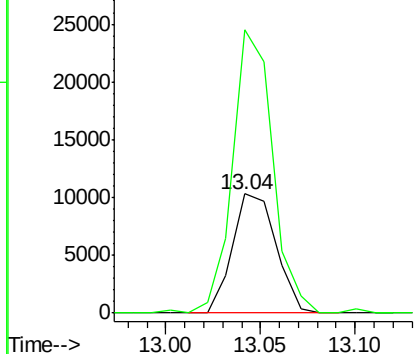
Tot Ion:106 Resp: 16412
Ion Ratio Lower Upper
106 100
91 237.7 118.1 354.2

Manual Integrations
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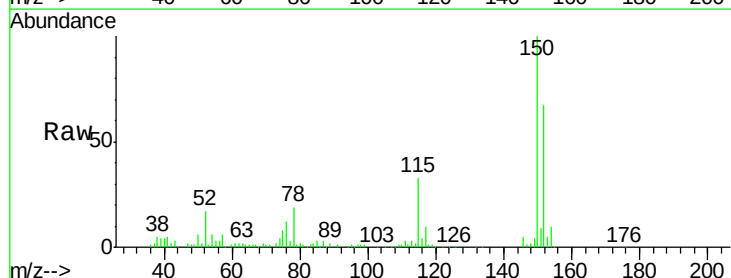


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

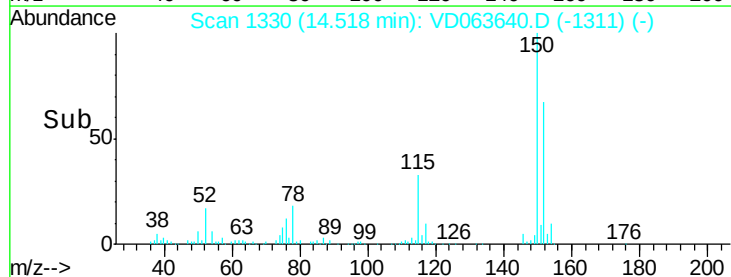
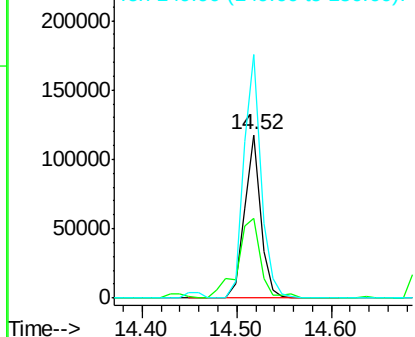


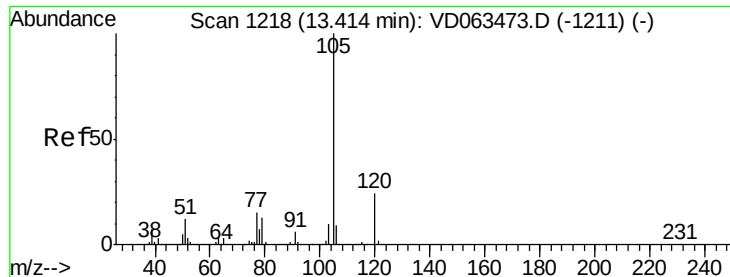
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion:152 Resp: 139717
Ion Ratio Lower Upper
152 100
115 48.6 30.9 92.7
150 149.2 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 71.329 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.02 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMPOSITE RE

Tot Ion: 105 Resp: 633886

Ion Ratio Lower Upper

105 100

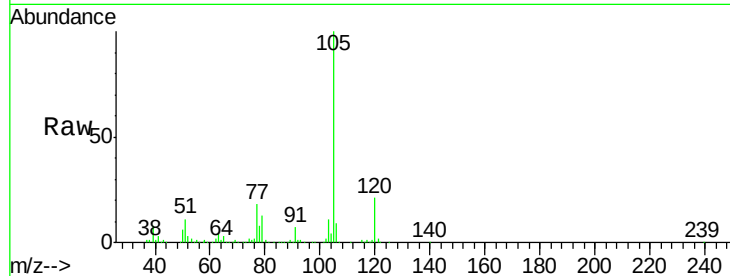
120 20.6 11.9 35.9

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

400000

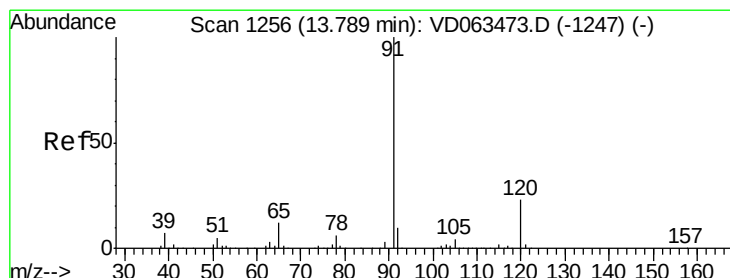
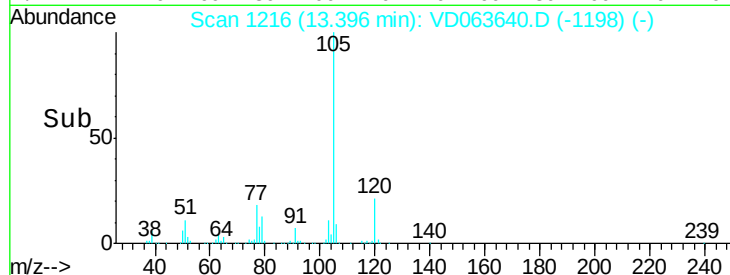
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#78

n-propylbenzene

Concen: 6.366 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.02 min

Lab File: VD063640.D

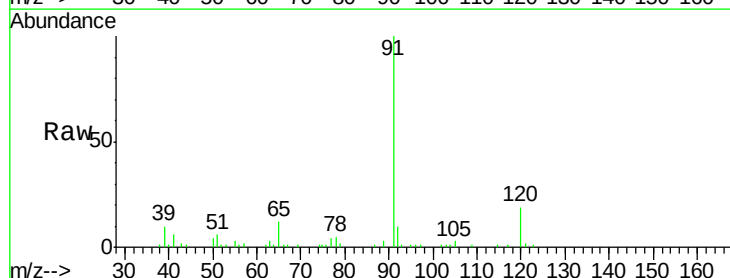
Acq: 16 Aug 2019 16:16

Tgt Ion: 91 Resp: 66189

Ion Ratio Lower Upper

91 100

120 19.3 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

13.77

60000

50000

40000

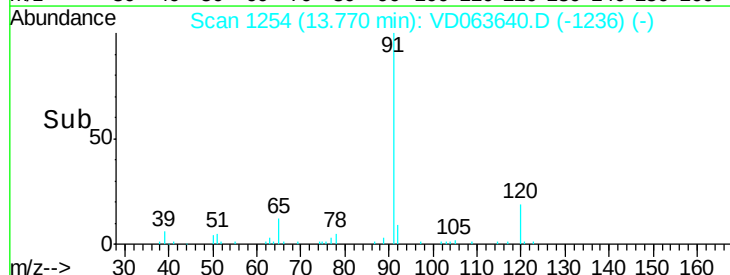
30000

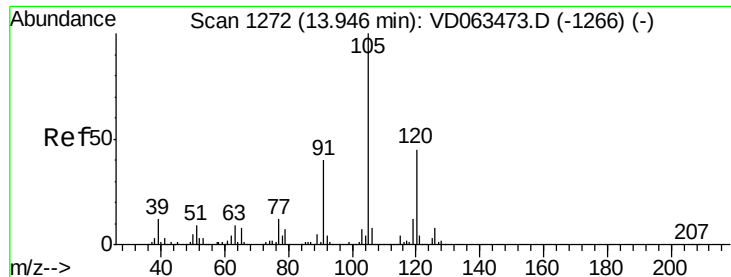
20000

10000

0

Time--> 13.70 13.75 13.80





#80

1,3,5-Trimethylbenzene

Concen: 299.820 ug/l

RT: 13.88 min Scan# 1265

Delta R.T. -0.07 min

Lab File: VD063640.D

Acq: 16 Aug 2019 16:16

Instrument :

MSVOA_D

ClientSampleId :

SOIL-COMPOSITE RE

Tot Ion:105 Resp: 2328020

Ion Ratio Lower Upper

105 100

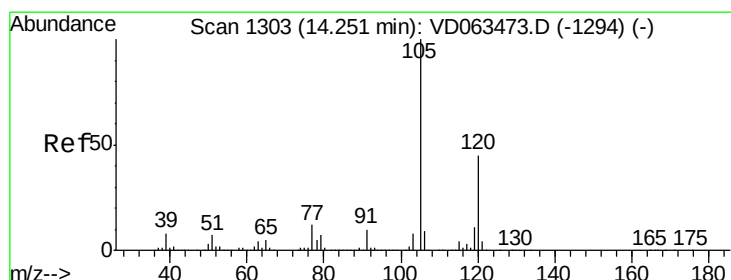
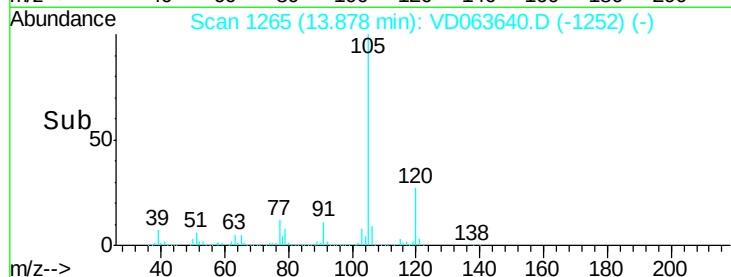
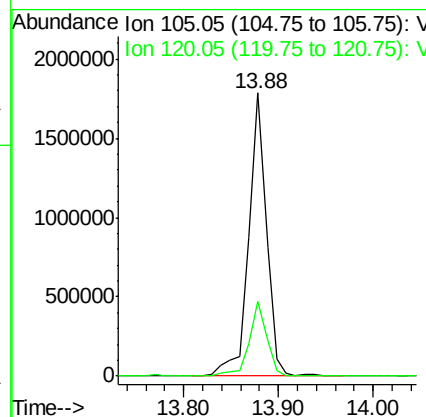
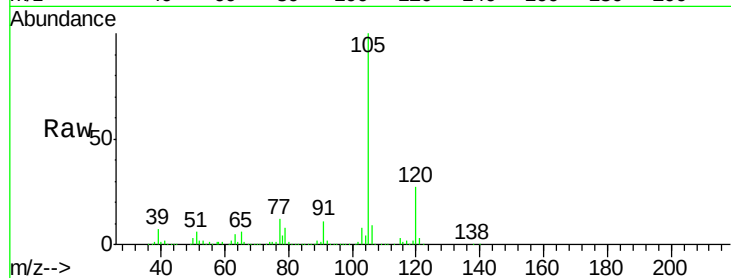
120 26.6 22.8 68.3

Manual Integrations

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#84

1,2,4-Trimethylbenzene

Concen: 14.927 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.02 min

Lab File: VD063640.D

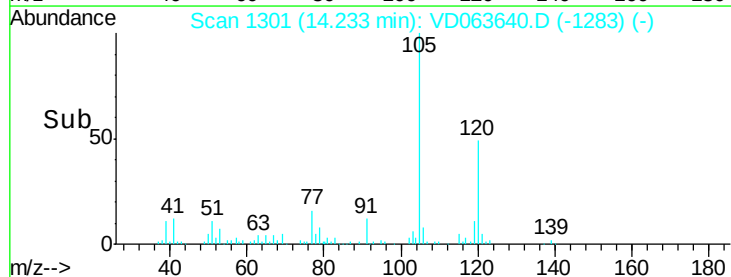
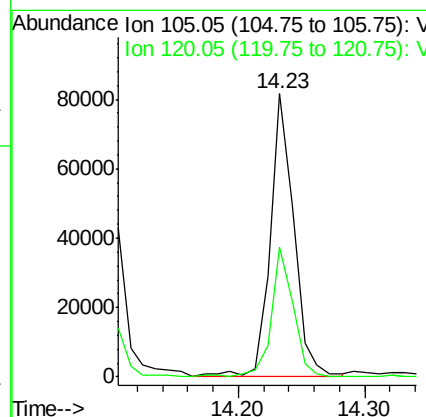
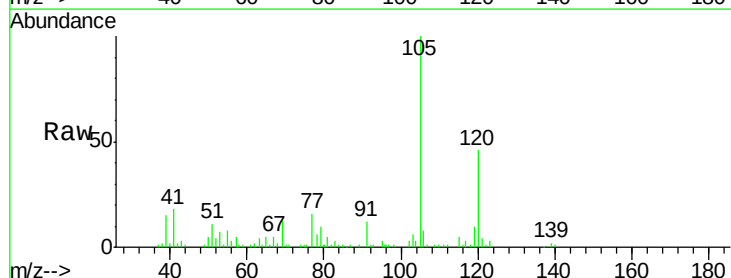
Acq: 16 Aug 2019 16:16

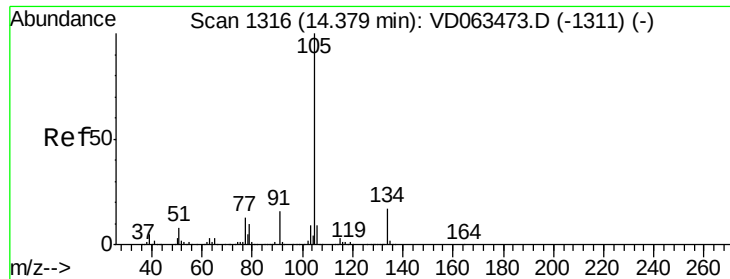
Tgt Ion:105 Resp: 107244

Ion Ratio Lower Upper

105 100

120 46.0 22.7 68.1





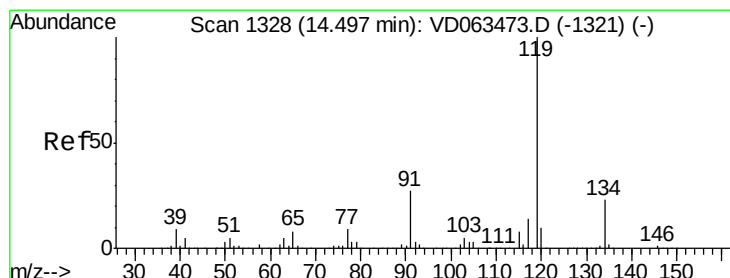
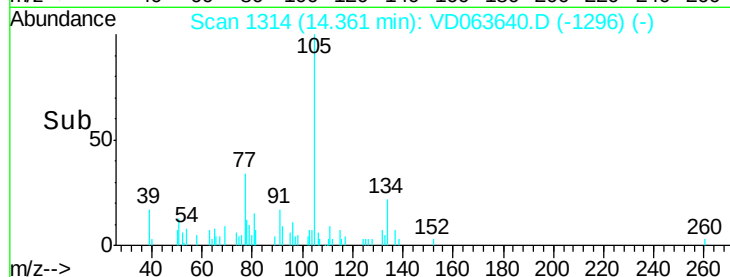
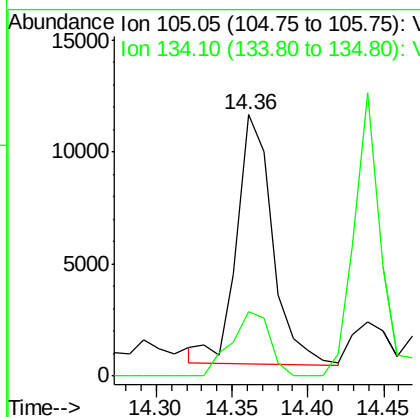
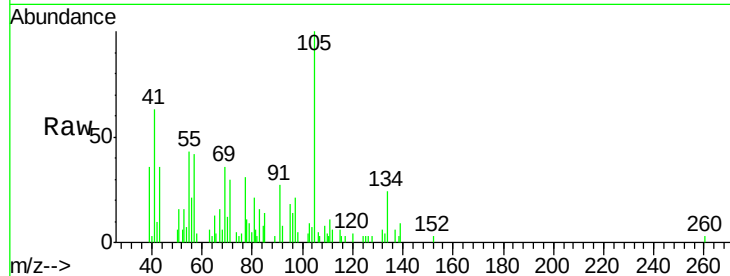
#85
 sec-Butylbenzene
 Concen: 2.102 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.02 min
 Lab File: VD063640.D
 Acq: 16 Aug 2019 16:16

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMPOSITE RE

Tot Ion	Ratio	Resp	Lower	Upper
105	100	18255		
134	24.5	8.3	24.8	

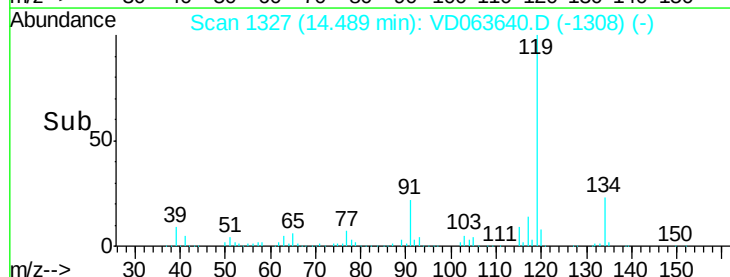
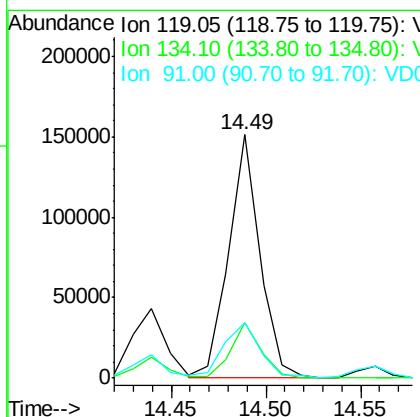
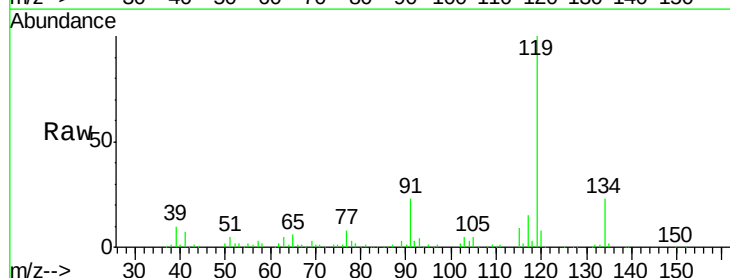
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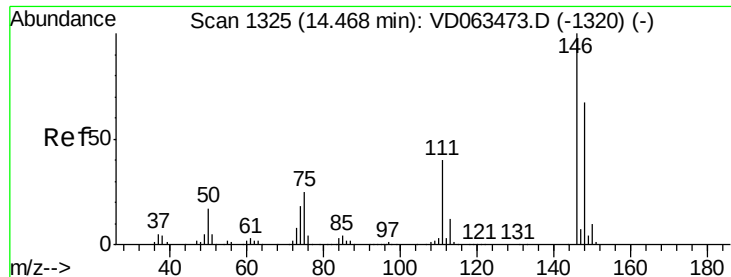
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#86
 p-Isopropyltoluene
 Concen: 20.735 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: VD063640.D
 Acq: 16 Aug 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	172153		
134	23.0	11.3	33.8	
91	22.7	13.5	40.4	





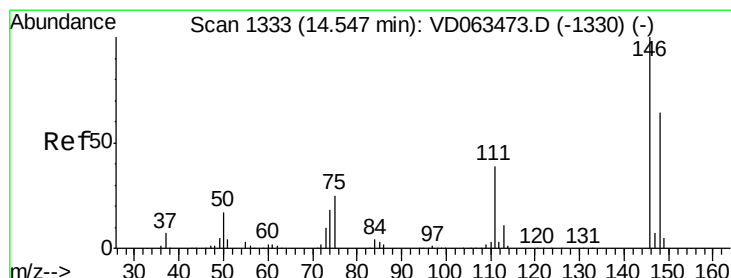
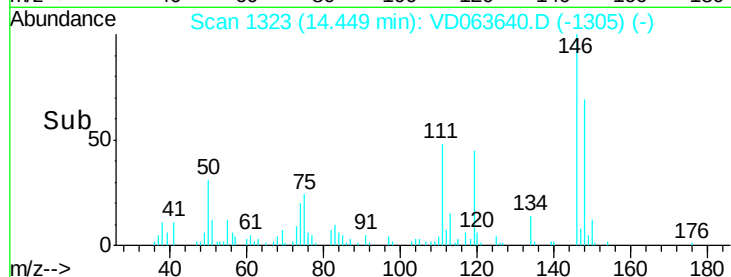
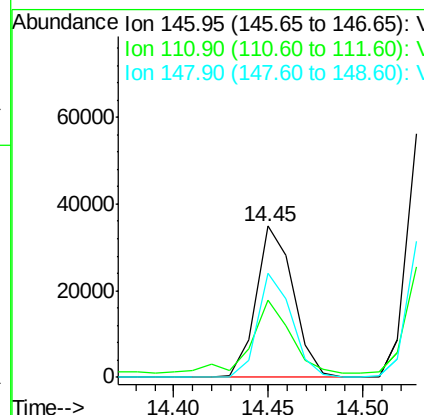
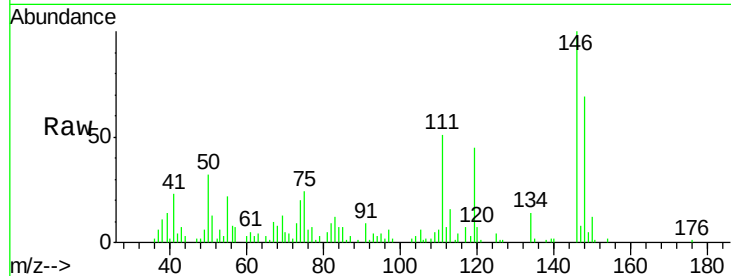
#87
 1,3-Dichlorobenzene
 Concen: 10.867 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.02 min
 Lab File: VD063640.D
 Acq: 16 Aug 2019 16:16

Instrument :
 MSVOA_D
 ClientSampleId :
 SOIL-COMPOSITE RE

Tot Ion:146 Resp: 47743
 Ion Ratio Lower Upper
 146 100
 111 51.2 20.0 60.0
 148 69.1 33.6 100.6

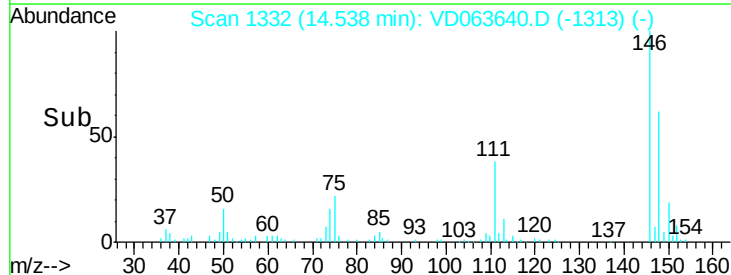
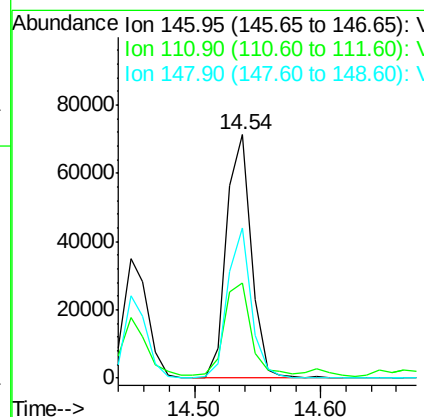
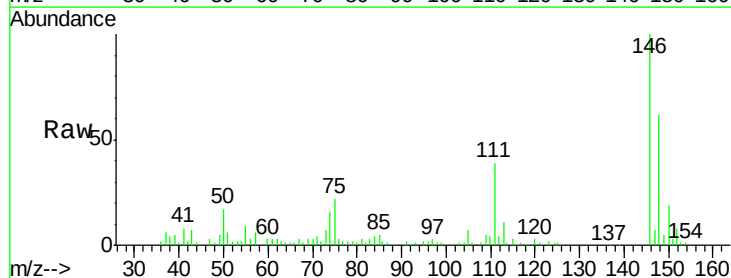
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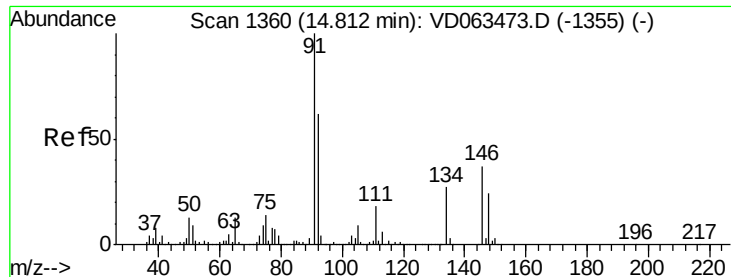
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#88
 1,4-Dichlorobenzene
 Concen: 22.890 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD063640.D
 Acq: 16 Aug 2019 16:16

Tgt Ion:146 Resp: 96482
 Ion Ratio Lower Upper
 146 100
 111 38.8 19.7 59.0
 148 61.9 32.1 96.3





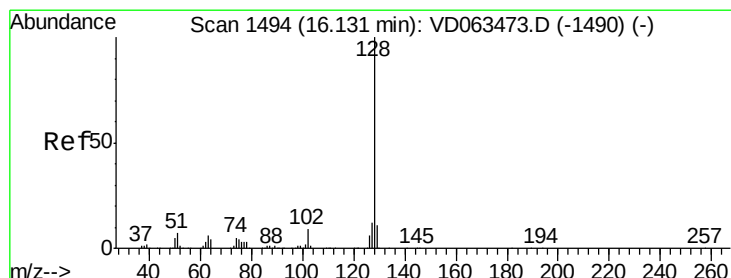
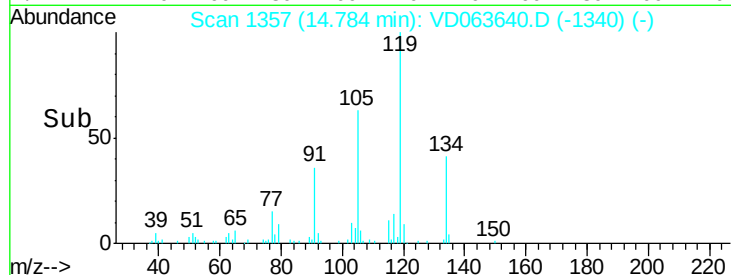
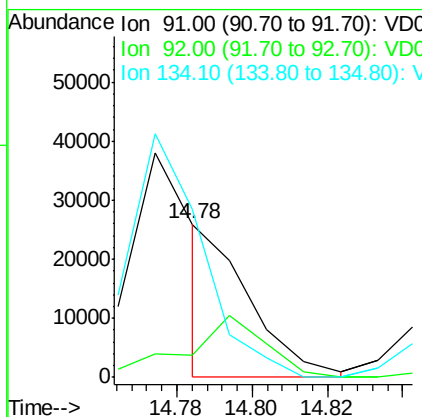
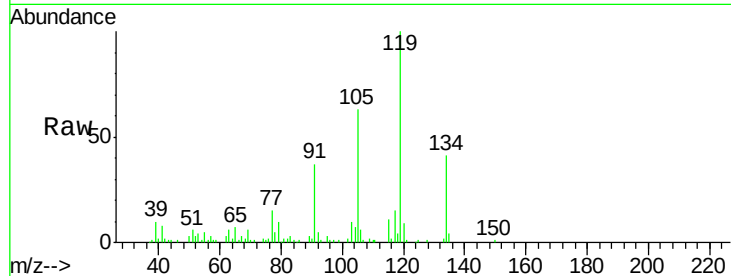
#89
n-Butylbenzene
Concen: 2.453 ug/l m
RT: 14.78 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Instrument :
MSVOA_D
ClientSampleId :
SOIL-COMPOSITE RE

Tot Ion	Ratio	Lower	Upper
91	100		
92	14.9	30.8	92.3#
134	110.3	13.4	40.2#

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#95
Naphthalene
Concen: 22.972 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD063640.D
Acq: 16 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.9	9.4	14.0
129	11.3	8.5	12.7

