

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062513.D
 Acq On : 22 May 2019 19:56
 Operator : VA/AP
 Sample : K2996-12
 Misc : 5.76g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(4.5-5.0)

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 11:21:54 AM

Quant Time: May 23 04:53:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.10	168	153598m	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.32	114	138872m	50.00	ug/l	0.09
63) Chlorobenzene-d5	12.48	117	89783	50.00	ug/l	0.10
72) 1,4-Dichlorobenzene-d4	14.52	152	5508	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.55	65	43869m	26.68	ug/l	0.08
Spiked Amount	50.000		Recovery	=	53.36%	
35) Dibromofluoromethane	6.92	113	124678	99.52	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	199.04%	
50) Toluene-d8	10.72	98	1105327m	403.17	ug/l	0.29
Spiked Amount	50.000		Recovery	=	806.34%	
62) 4-Bromofluorobenzene	13.57	95	318091m	265.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	530.48%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.83	50	11007m	10.344	ug/l	
17) Carbon Disulfide	3.37	76	48786m	14.161	ug/l	
31) Cyclohexane	7.03	56	2831952m	1824.219	ug/l	
39) Methylcyclohexane	9.12	83	75385590m	68839.187	ug/l	
67) Ethyl Benzene	12.62	91	41390165	13917.810	ug/l #	76
68) m/p-Xylenes	12.76	106	10369647m	9713.835	ug/l	
69) o-Xylene	13.10	106	145870	144.823	ug/l	70
73) Isopropylbenzene	13.44	105	13615767	39217.039	ug/l	92
78) n-propylbenzene	13.80	91	13560892	33719.983	ug/l	90
80) 1,3,5-Trimethylbenzene	13.95	105	8922529	29680.972	ug/l	92
83) tert-Butylbenzene	14.20	119	119304m	357.784	ug/l	
84) 1,2,4-Trimethylbenzene	14.27	105	17157128	55699.107	ug/l	84
85) sec-Butylbenzene	14.38	105	789015	2269.268	ug/l	99
86) p-Isopropyltoluene	14.49	119	293515	931.524	ug/l	89
89) n-Butylbenzene	14.80	91	401706m	1321.012	ug/l	
95) Naphthalene	16.12	128	244409	1536.004	ug/l	99

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

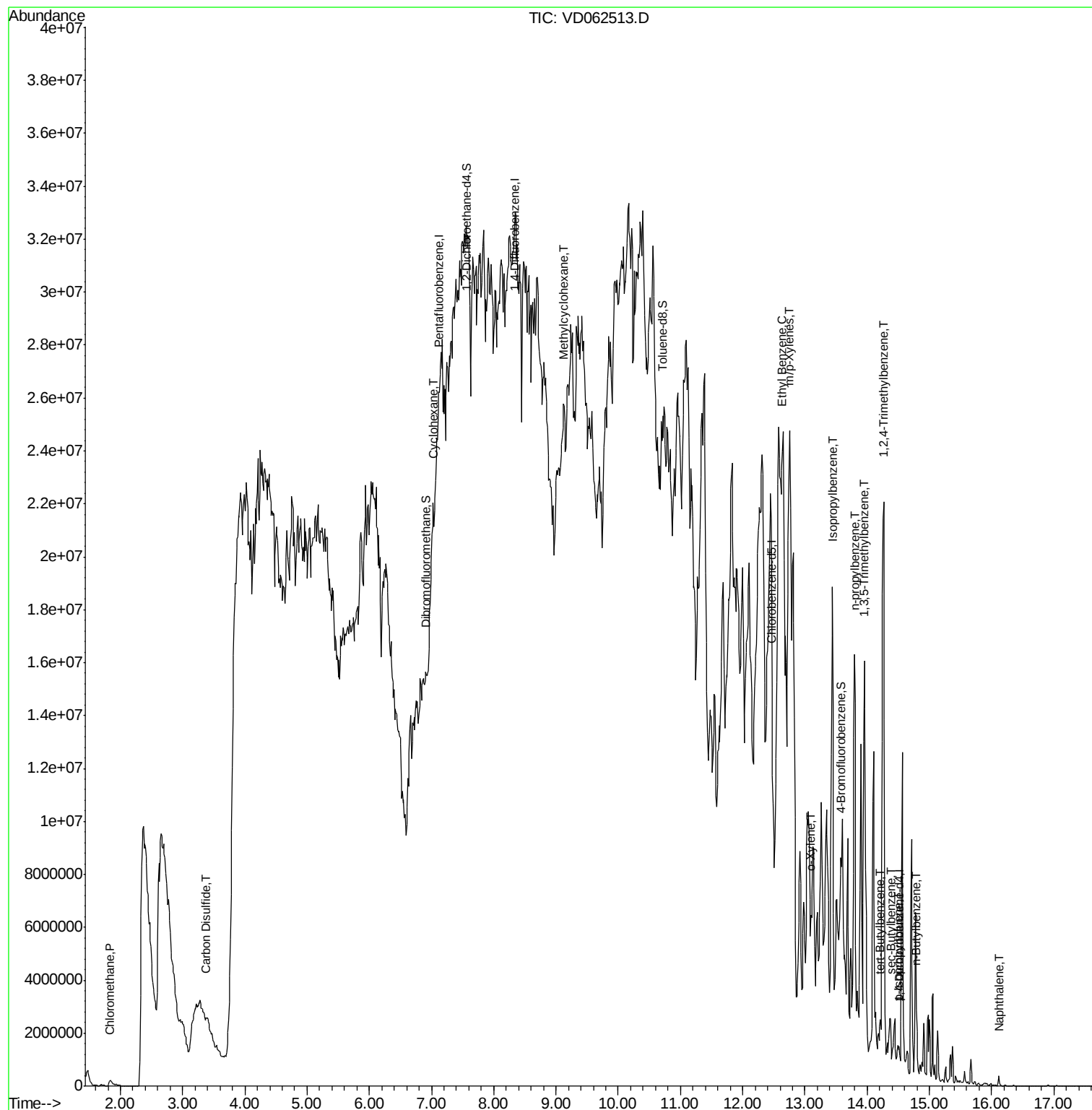
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

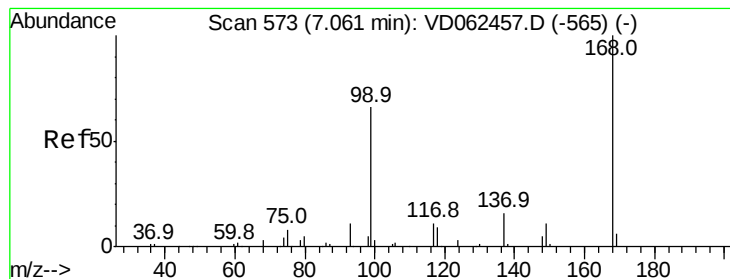
Instrument :
MSVOA_D
ClientSampleId :
P-10(4.5-5.0)

Manual Integrations
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5/23/2019 11:21:54 AM

Quant Time: May 23 04:53:58 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l m

RT: 7.10 min Scan# 577

Delta R.T. 0.04 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P-10(4.5-5.0)

Tot Ion:168 Resp: 153598

Ion Ratio Lower Upper

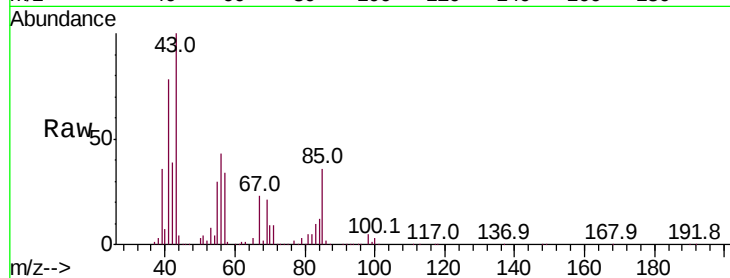
168 100

99 314.8 46.5 69.7#

Manual Integrations
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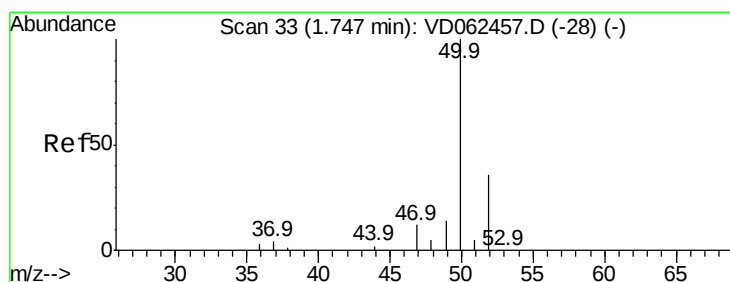
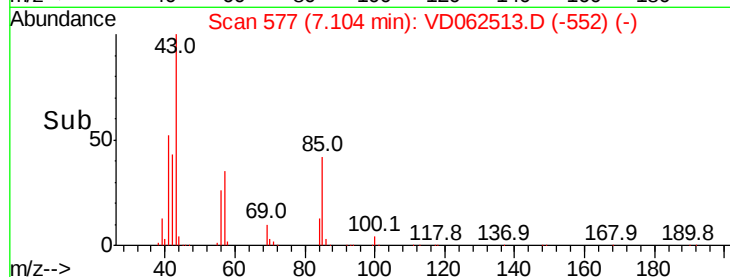
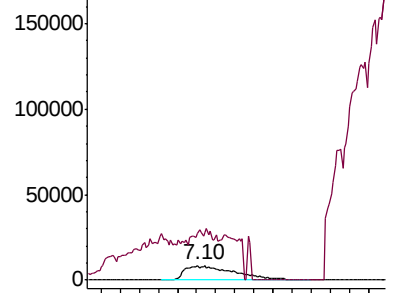
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 10.344 ug/l m

RT: 1.83 min Scan# 41

Delta R.T. 0.08 min

Lab File: VD062513.D

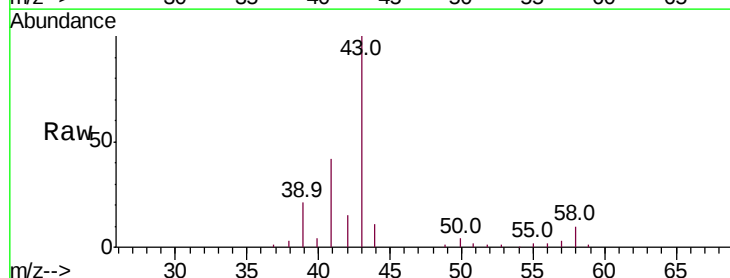
Acq: 22 May 2019 19:56

Tgt Ion: 50 Resp: 11007

Ion Ratio Lower Upper

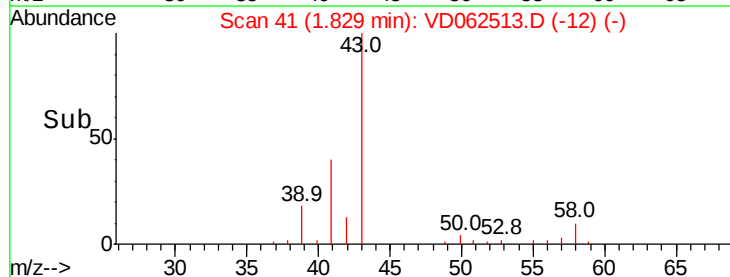
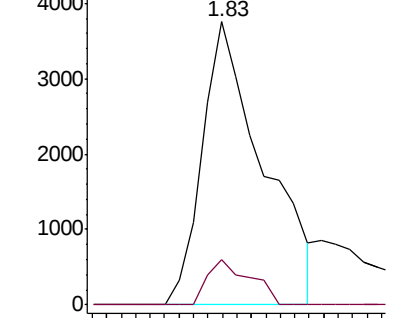
50 100

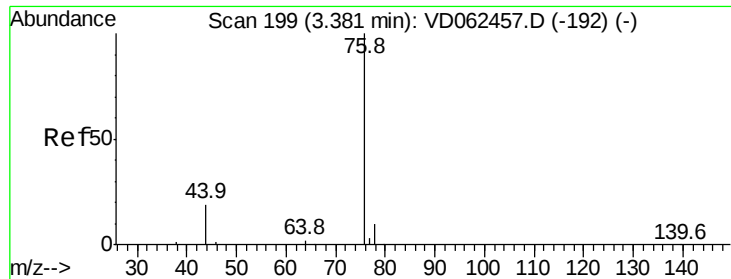
52 15.8 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





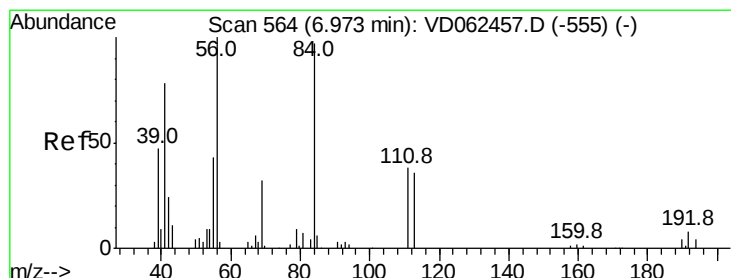
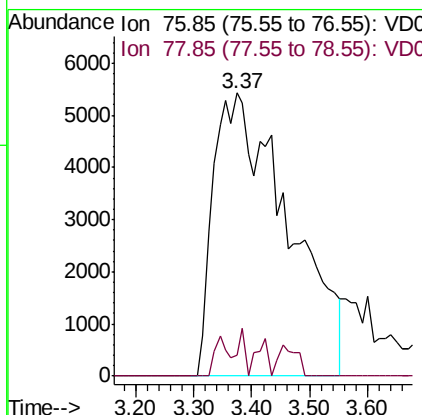
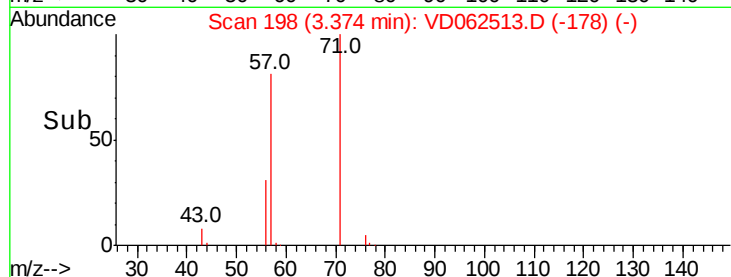
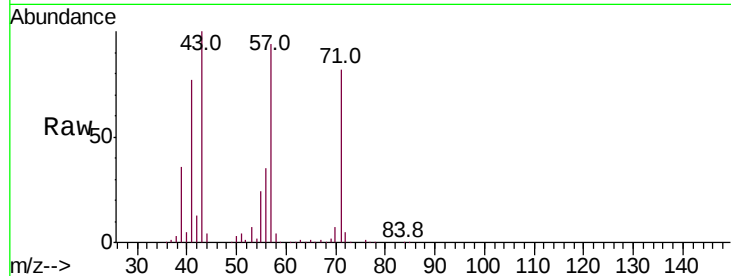
#17
Carbon Disulfide
Concen: 14.161 ug/l m
RT: 3.37 min Scan# 198
Delta R.T. -0.01 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :
P-10(4.5-5.0)

Tot Ion: 76 Resp: 48786
Ion Ratio Lower Upper
76 100
78 7.5 7.2 10.8

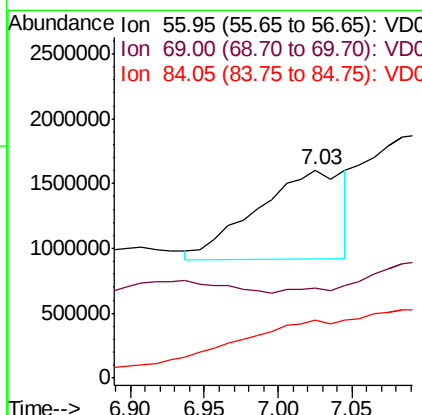
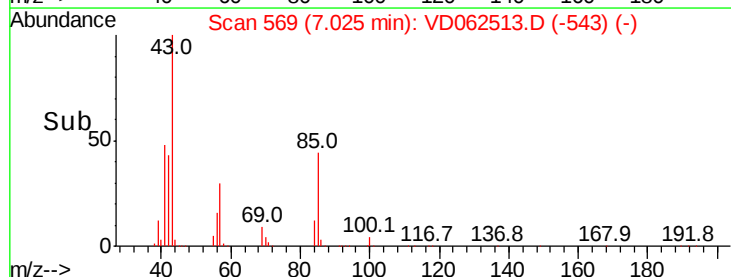
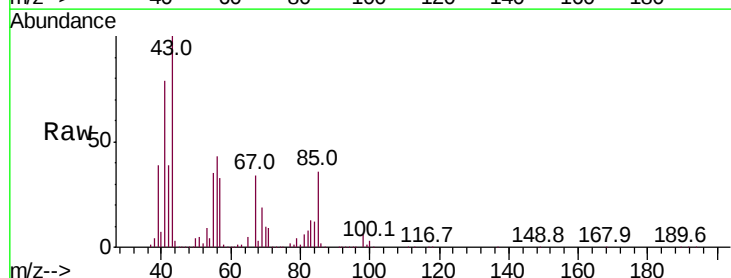
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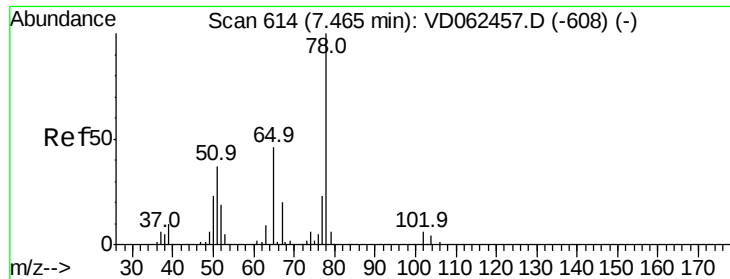
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#31
Cyclohexane
Concen: 1824.219 ug/l m
RT: 7.03 min Scan# 569
Delta R.T. 0.05 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 56 Resp: 2831952
Ion Ratio Lower Upper
56 100
69 43.5 25.8 38.6#
84 27.7 72.2 108.4#





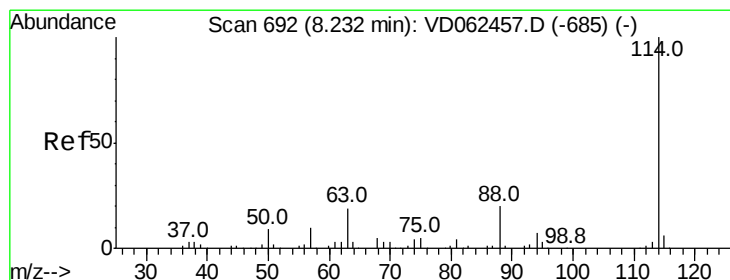
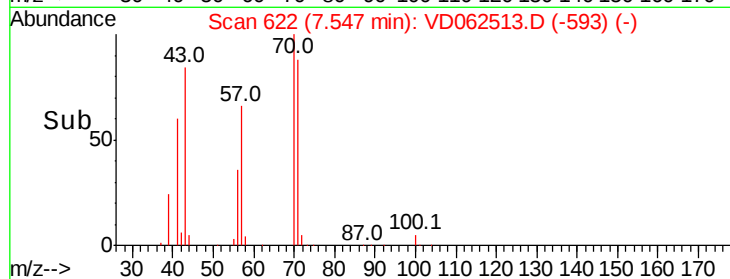
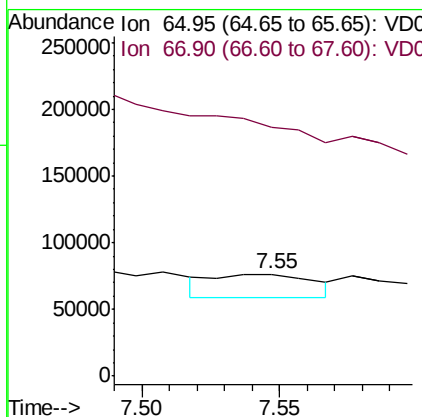
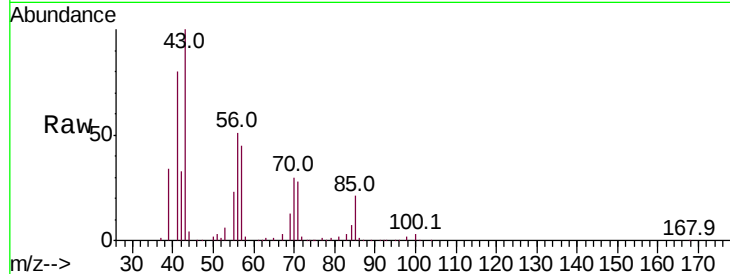
#33
 1,2-Dichloroethane-d4
 Concen: 26.682 ug/l m
 RT: 7.55 min Scan# 622
 Delta R.T. 0.08 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(4.5-5.0)

Tot Ion: 65 Resp: 43869
 Ion Ratio Lower Upper
 65 100
 67 244.5 0.0 98.0#

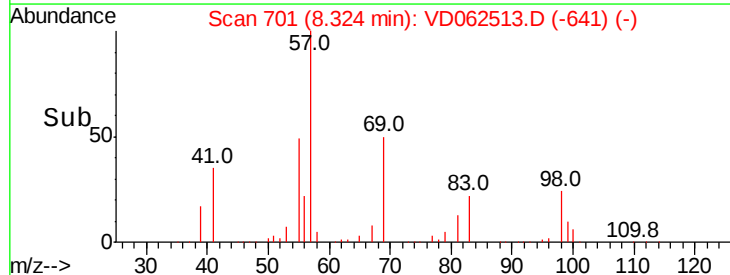
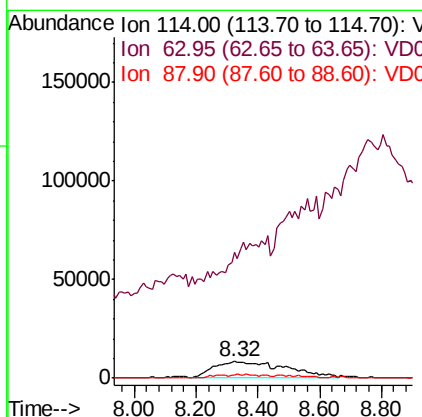
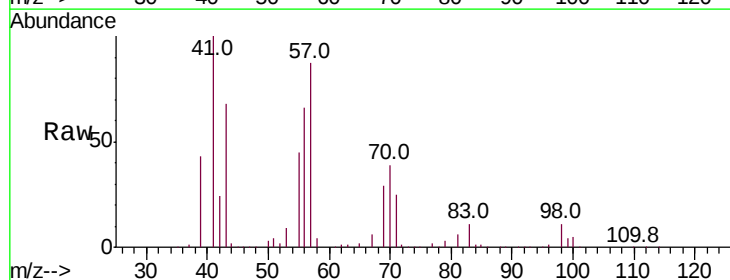
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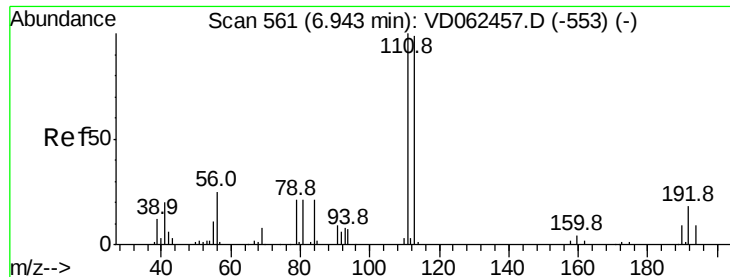
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l m
 RT: 8.32 min Scan# 701
 Delta R.T. 0.09 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion: 114 Resp: 138872
 Ion Ratio Lower Upper
 114 100
 63 745.8 0.0 32.4#
 88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 99.520 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.03 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P-10(4.5-5.0)

Tot Ion:113 Resp: 124678

Ion Ratio Lower Upper

113 100

111 97.4 78.5 117.7

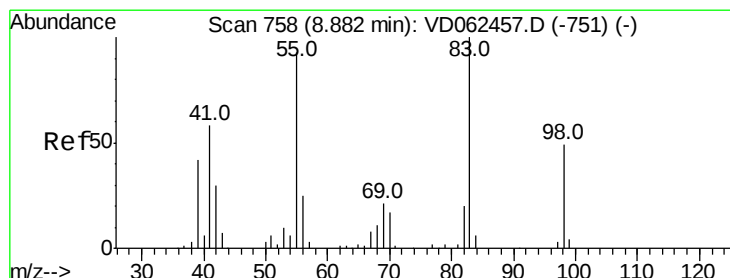
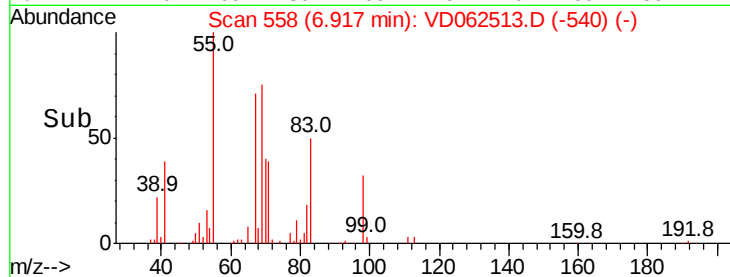
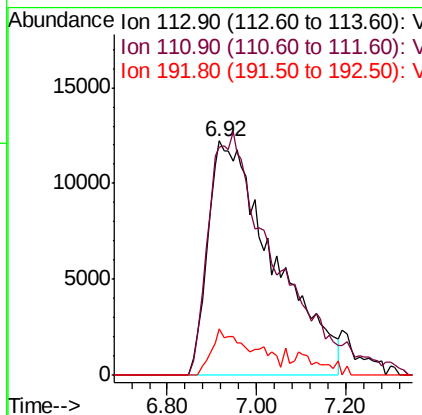
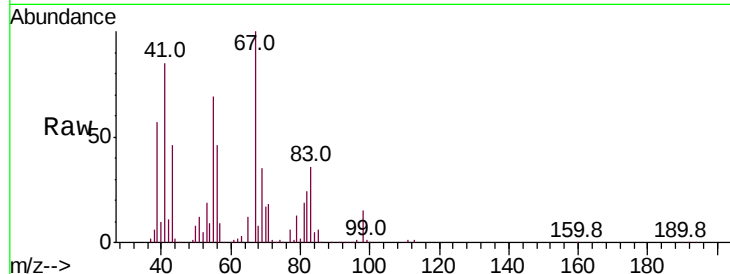
192 19.9 13.0 19.4#

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#39

Methylcyclohexane

Concen: 68839.187 ug/l m

RT: 9.12 min Scan# 782

Delta R.T. 0.24 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

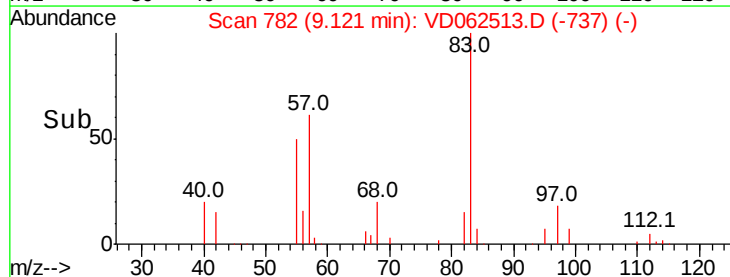
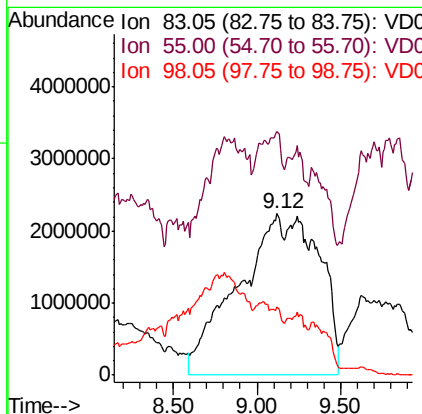
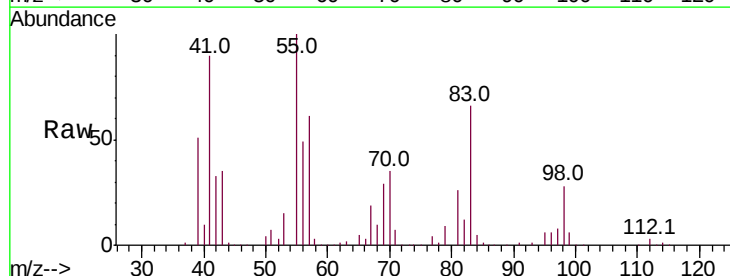
Tgt Ion: 83 Resp:75385590

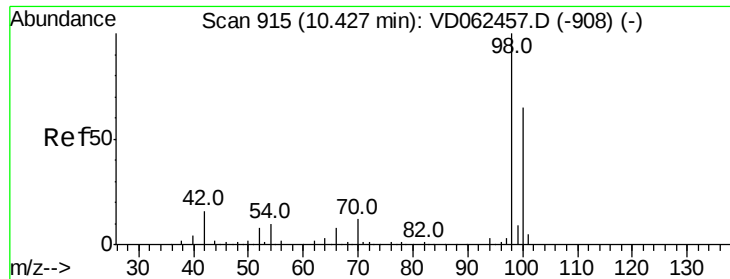
Ion Ratio Lower Upper

83 100

55 151.1 68.2 102.4#

98 42.5 38.2 57.4





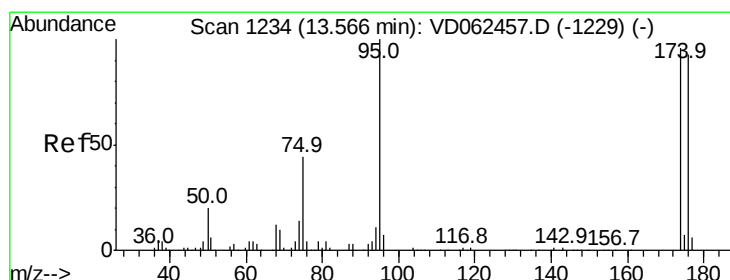
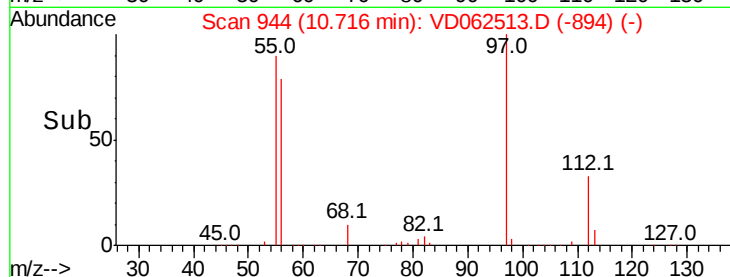
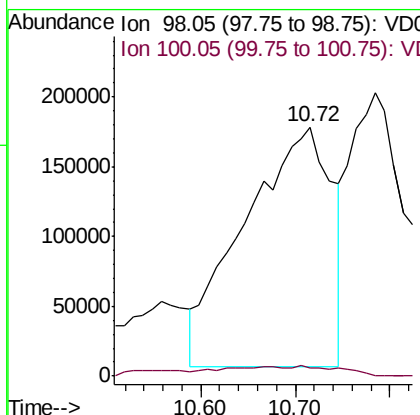
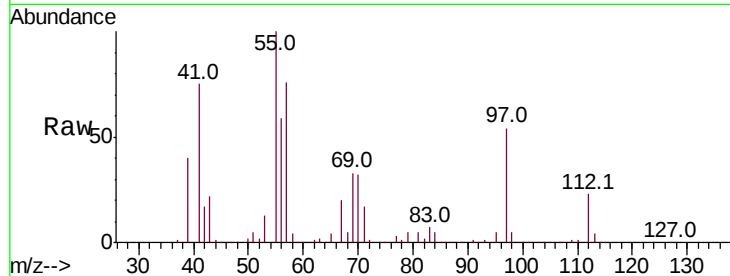
#50
Toluene-d8
Concen: 403.168 ug/l m
RT: 10.72 min Scan# 944
Delta R.T. 0.29 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :
P-10(4.5-5.0)

Tot Ion: 98 Resp: 1105327
Ion Ratio Lower Upper
98 100
100 3.2 53.8 80.8#

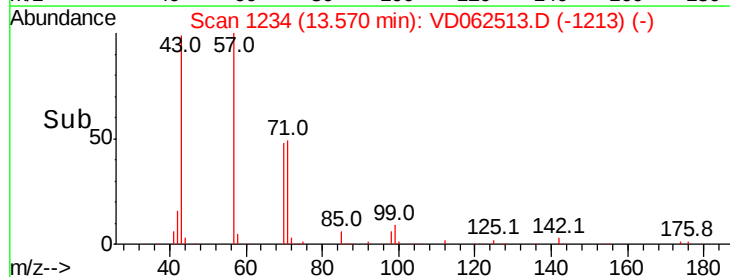
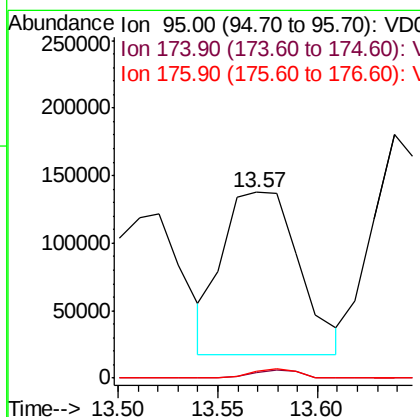
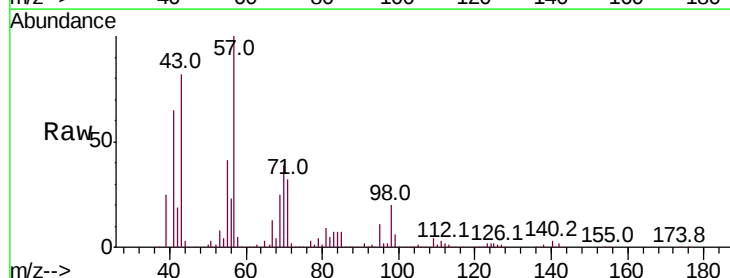
Manual Integrations
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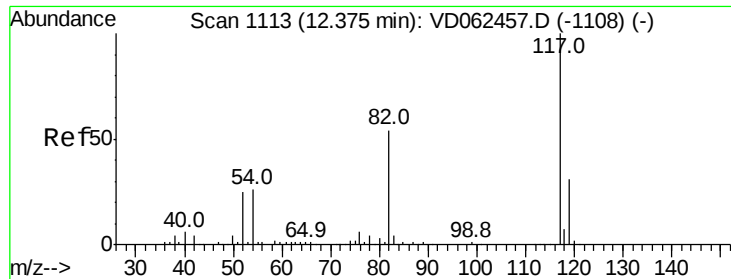
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#62
4-Bromofluorobenzene
Concen: 265.236 ug/l m
RT: 13.57 min Scan# 1234
Delta R.T. 0.00 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion: 95 Resp: 318091
Ion Ratio Lower Upper
95 100
174 2.9 0.0 181.8
176 3.4 0.0 174.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.48 min Scan# 1123

Delta R.T. 0.10 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P-10(4.5-5.0)

Tot Ion:117 Resp: 89783

Ion Ratio Lower Upper

117 100

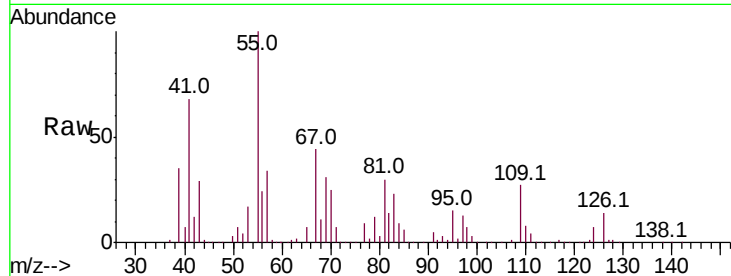
82 995.2 36.2 54.2#

119 30.6 26.2 39.4

Manual Integrations
APPROVED

MMDadoda

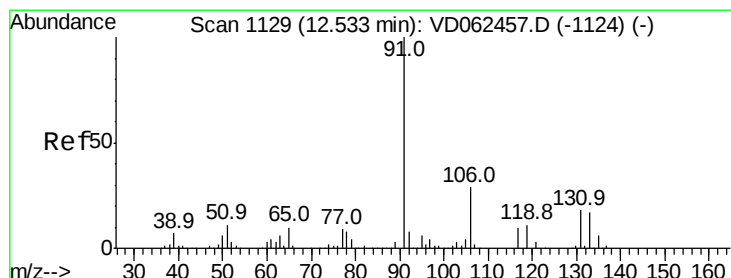
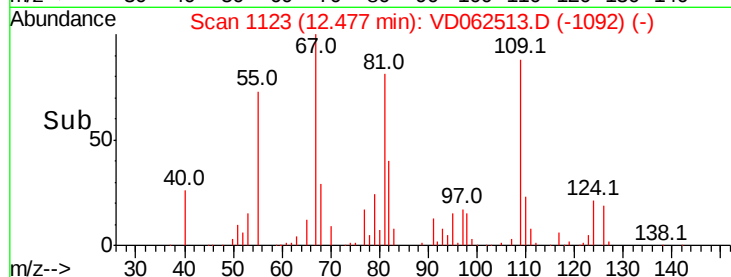
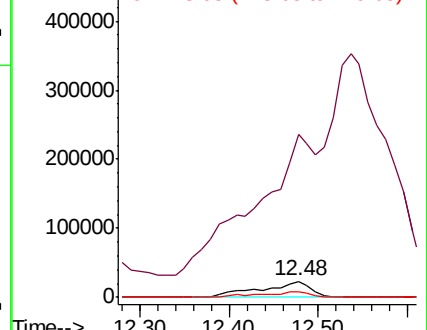
5/23/2019 11:21:54 AM



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



#67

Ethyl Benzene

Concen: 13917.810 ug/l

RT: 12.62 min Scan# 1138

Delta R.T. 0.09 min

Lab File: VD062513.D

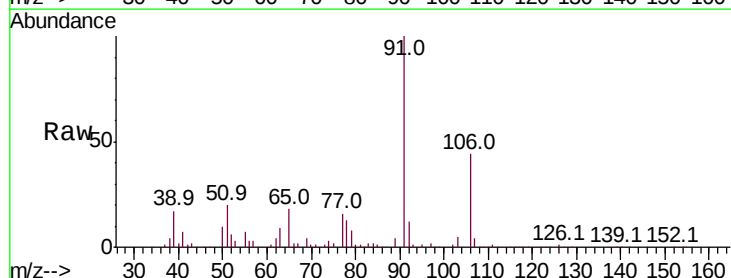
Acq: 22 May 2019 19:56

Tgt Ion: 91 Resp:41390165

Ion Ratio Lower Upper

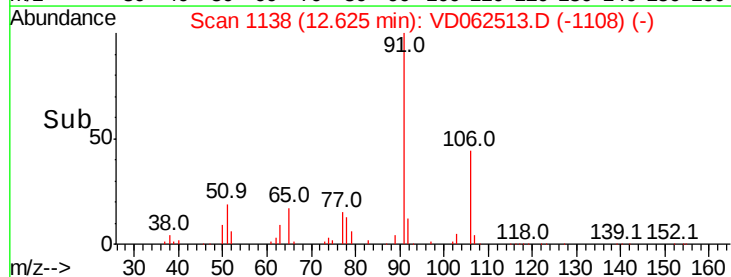
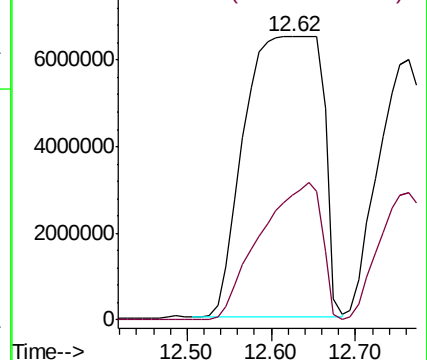
91 100

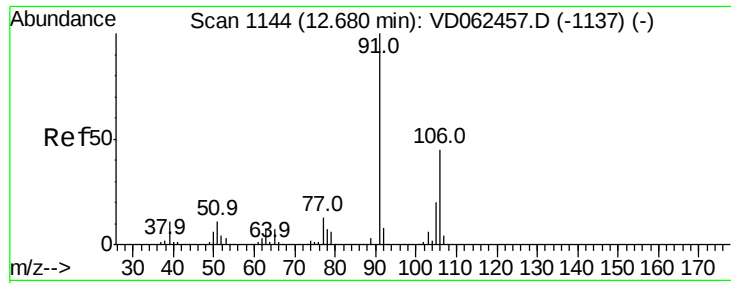
106 44.0 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V





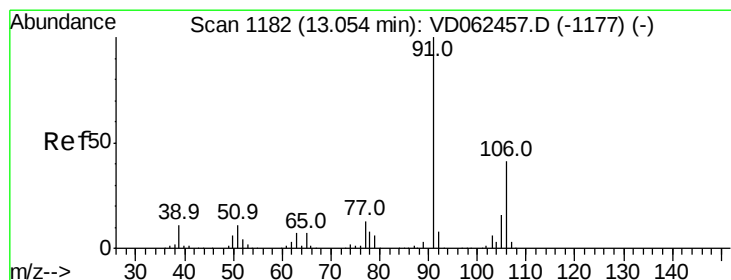
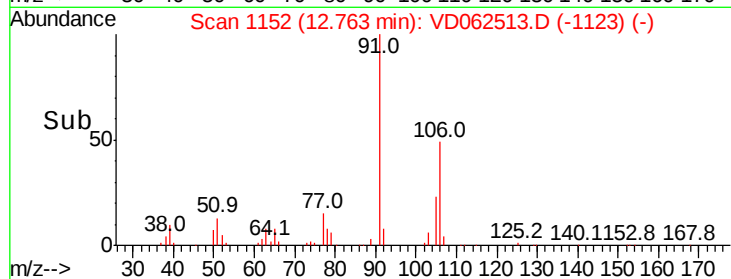
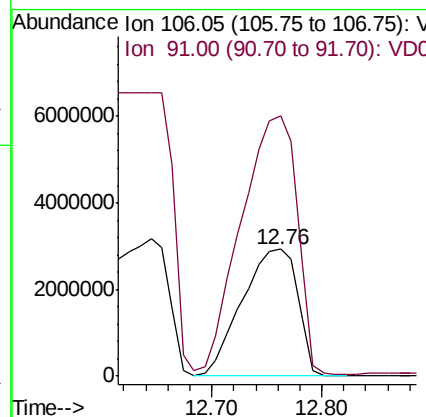
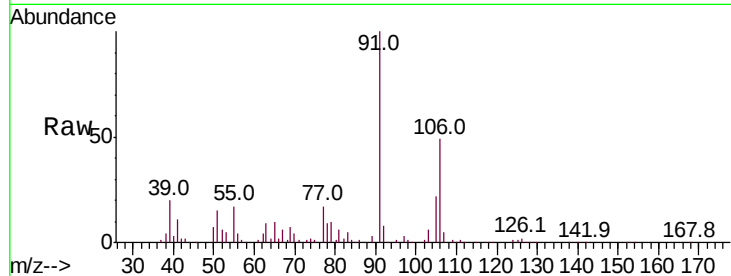
#68
m/p-Xylenes
Concen: 9713.835 ug/l m
RT: 12.76 min Scan# 1152
Delta R.T. 0.08 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :
P-10(4.5-5.0)

Tot Ion:106 Resp:10369647
Ion Ratio Lower Upper
106 100
91 205.0 164.0 246.0

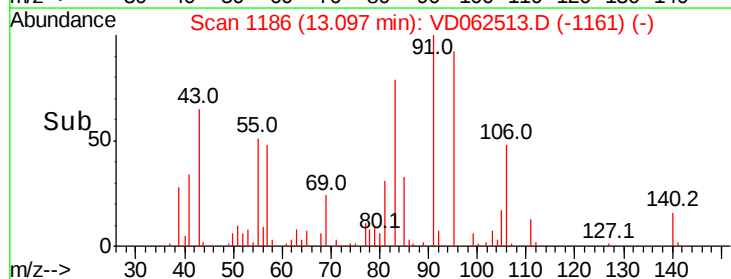
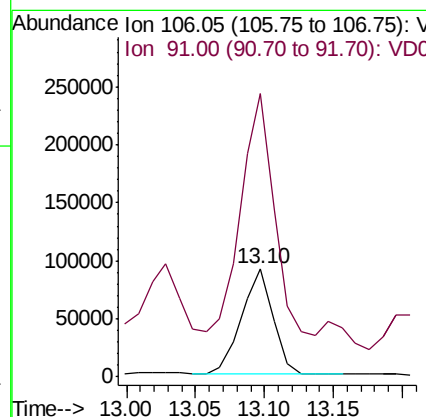
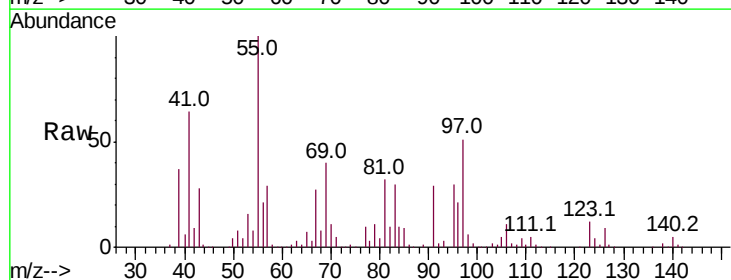
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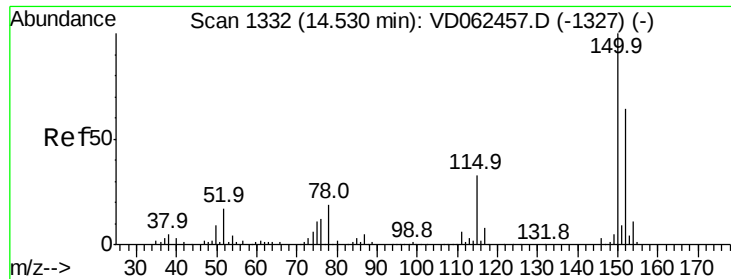
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#69
o-Xylene
Concen: 144.823 ug/l
RT: 13.10 min Scan# 1186
Delta R.T. 0.04 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion:106 Resp: 145870
Ion Ratio Lower Upper
106 100
91 260.6 106.7 319.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P-10(4.5-5.0)

Tot Ion:152 Resp: 5508

Ion Ratio Lower Upper

152 100

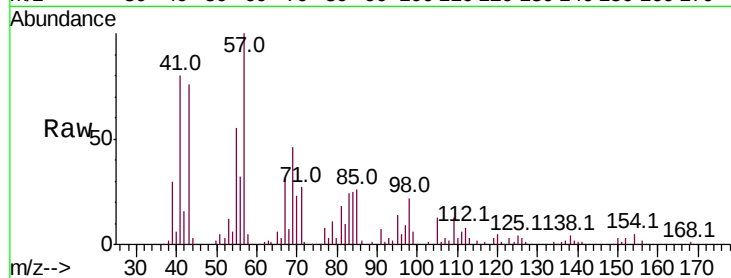
115 56.2 30.9 92.7

150 85.9 0.0 314.8

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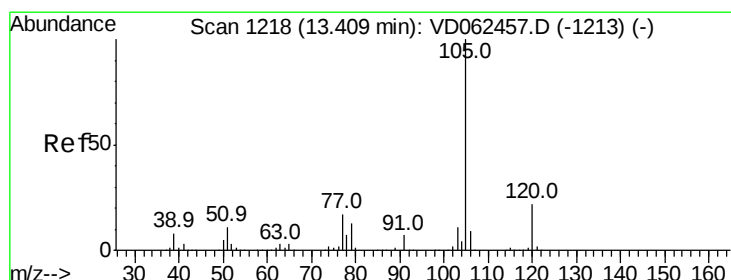
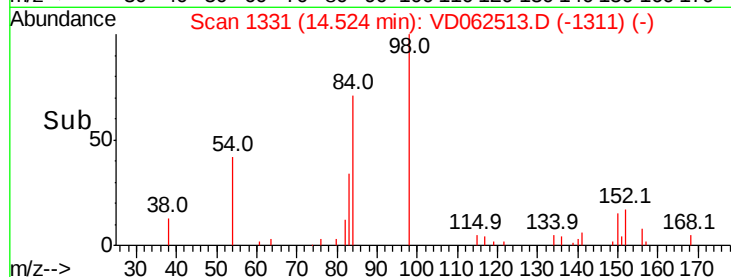
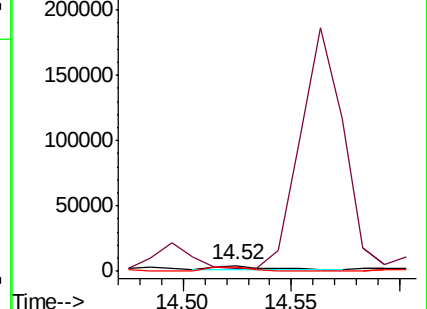
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 39217.039 ug/l

RT: 13.44 min Scan# 1221

Delta R.T. 0.03 min

Lab File: VD062513.D

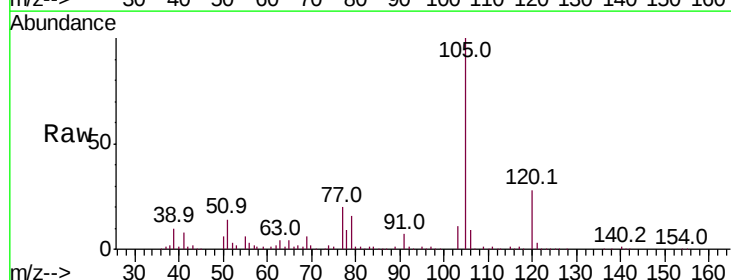
Acq: 22 May 2019 19:56

Tgt Ion:105 Resp:13615767

Ion Ratio Lower Upper

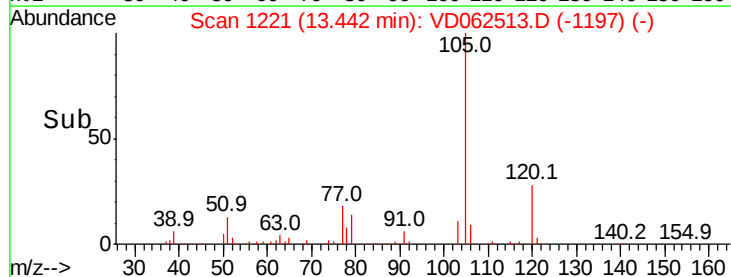
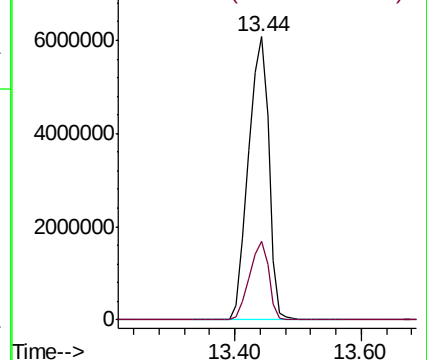
105 100

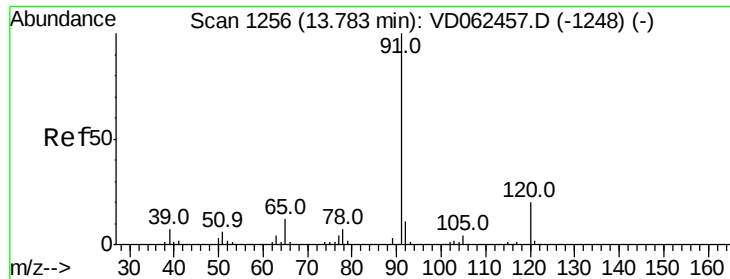
120 27.9 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 33719.983 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

P-10(4.5-5.0)

Tot Ion: 91 Resp:13560892

Ion Ratio Lower Upper

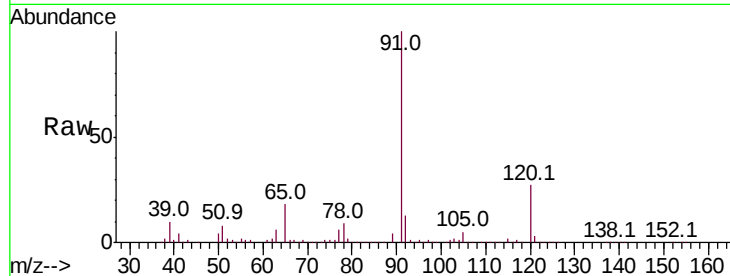
91 100

120 26.7 11.1 33.1

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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

13.80

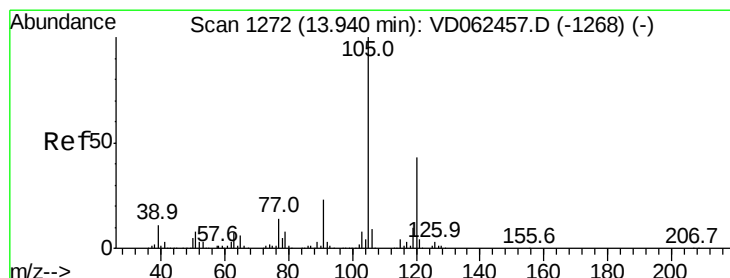
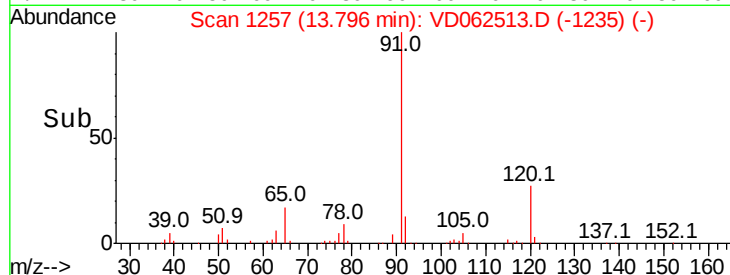
6000000

4000000

2000000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 29680.972 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062513.D

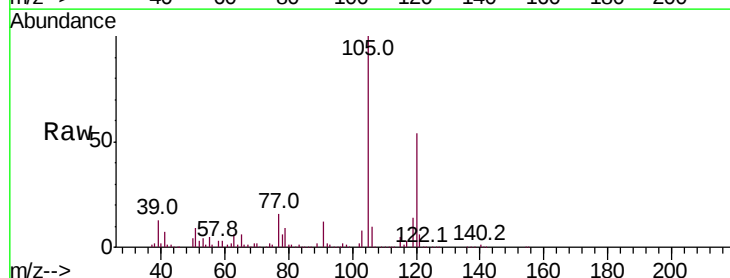
Acq: 22 May 2019 19:56

Tgt Ion:105 Resp: 8922529

Ion Ratio Lower Upper

105 100

120 53.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.95

5000000

4000000

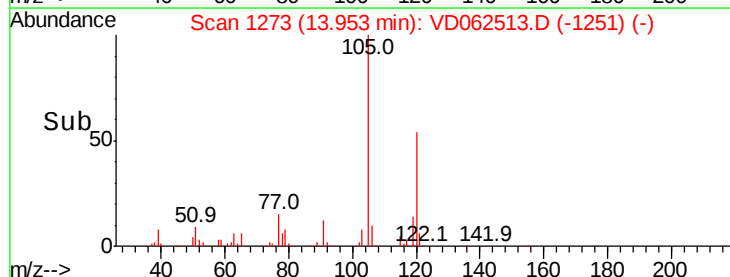
3000000

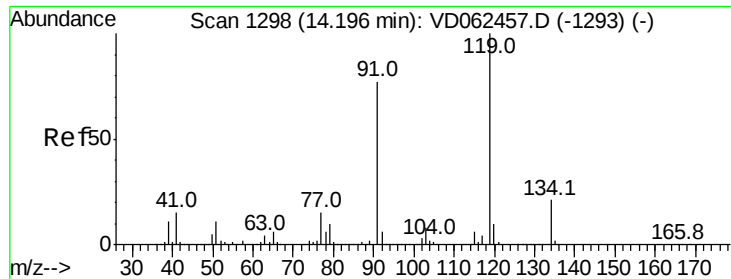
2000000

1000000

0

Time-->





#83

tert-Butylbenzene

Concen: 357.784 ug/l m

RT: 14.20 min Scan# 1298

Delta R.T. 0.00 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Instrument :

MSVOA_D

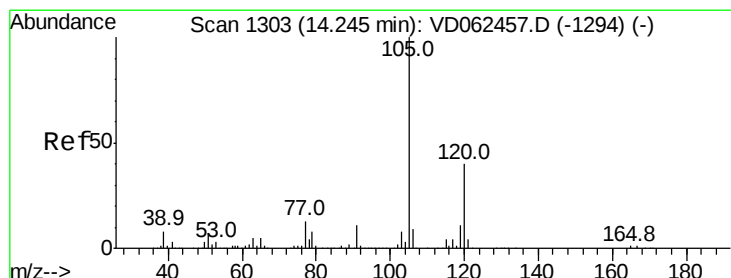
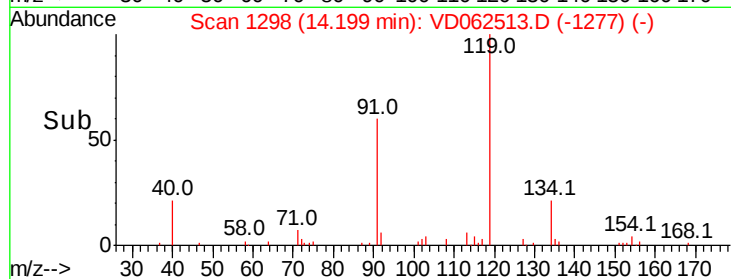
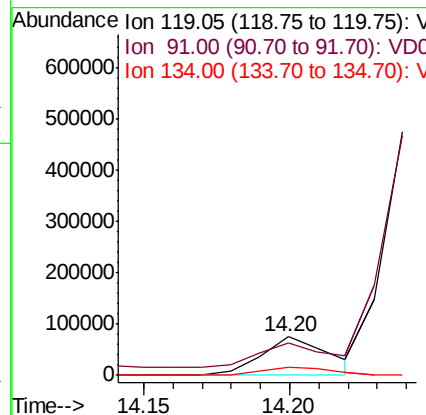
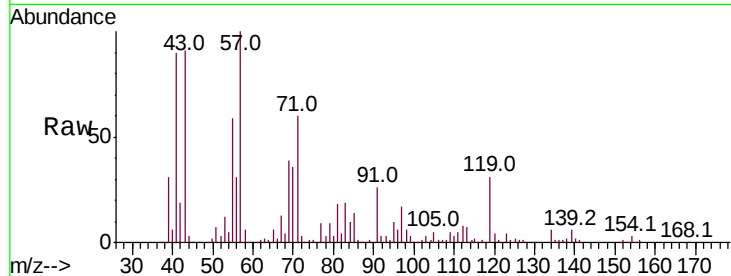
ClientSampleId :

P-10(4.5-5.0)

Tot Ion:	119	Resp:	119304
Ion Ratio	Lower	Upper	
119	100		
91	85.2	34.2	102.6
134	19.4	12.0	36.0

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 55699.107 ug/l

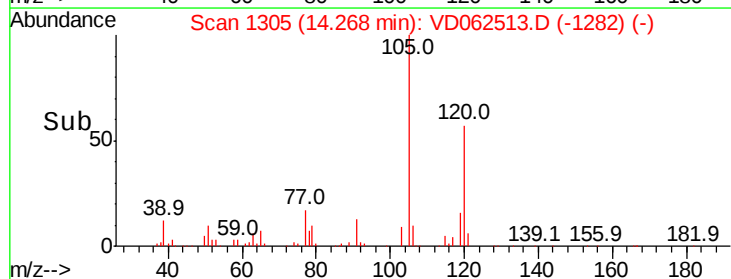
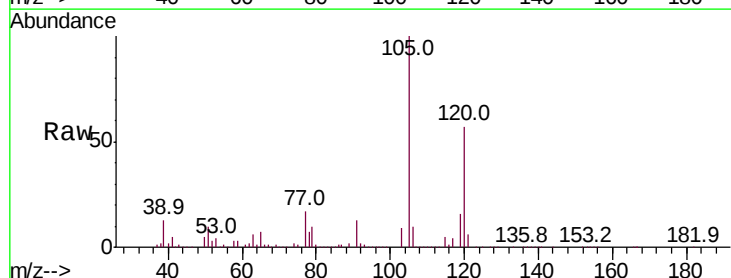
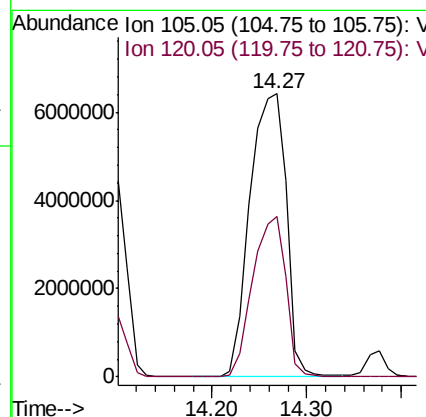
RT: 14.27 min Scan# 1305

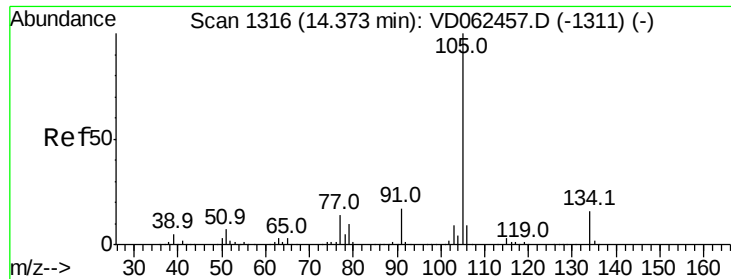
Delta R.T. 0.02 min

Lab File: VD062513.D

Acq: 22 May 2019 19:56

Tgt Ion:	105	Resp:	17157128
Ion Ratio	Lower	Upper	
105	100		
120	56.8	23.1	69.2





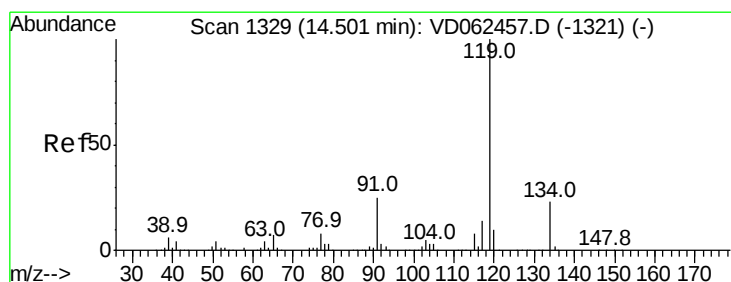
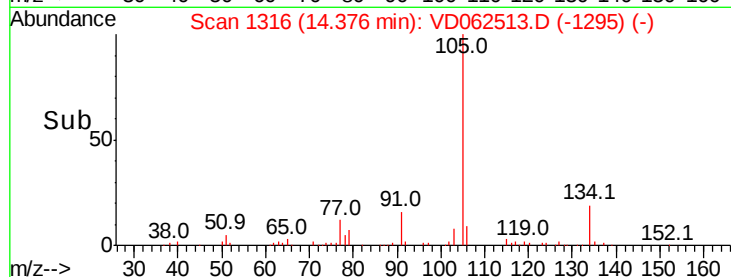
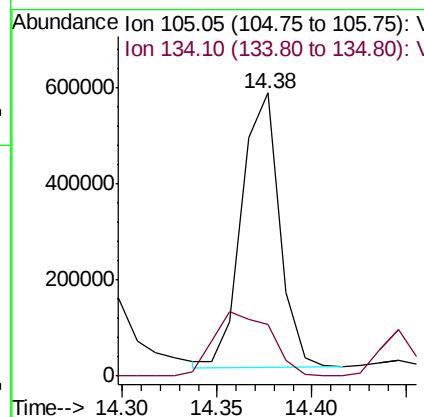
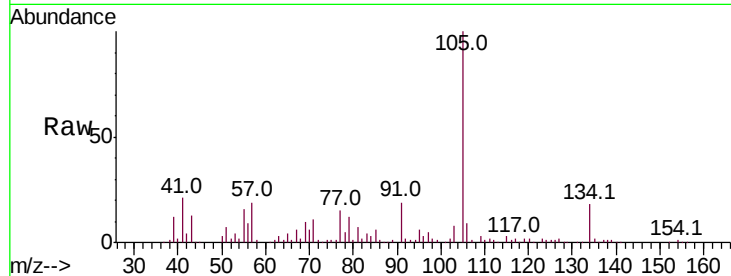
#85
 sec-Butylbenzene
 Concen: 2269.268 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(4.5-5.0)

Tot Ion	Ratio	Resp	Lower	Upper
105	100	789015		
134	18.4	8.9	26.7	

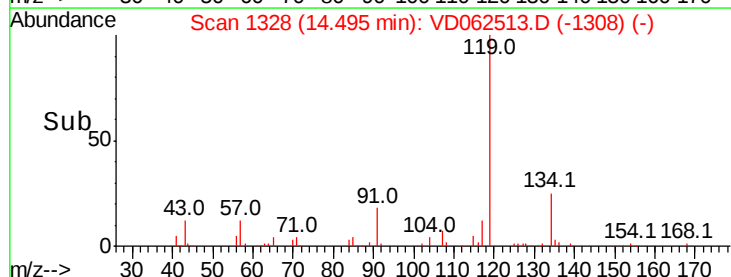
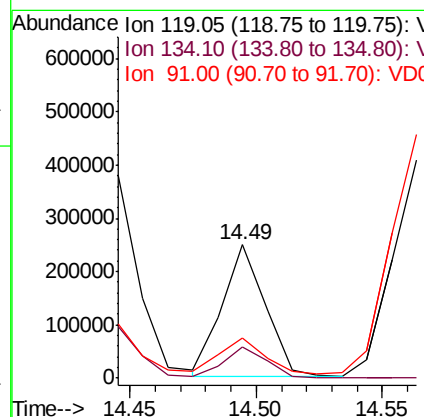
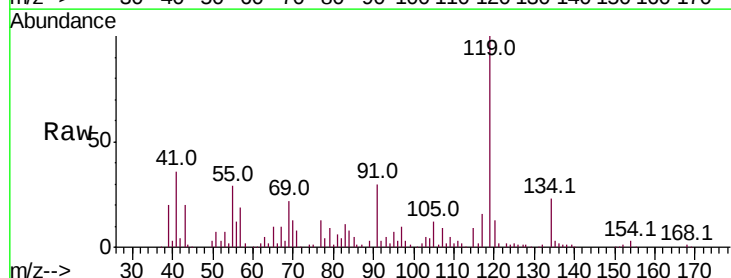
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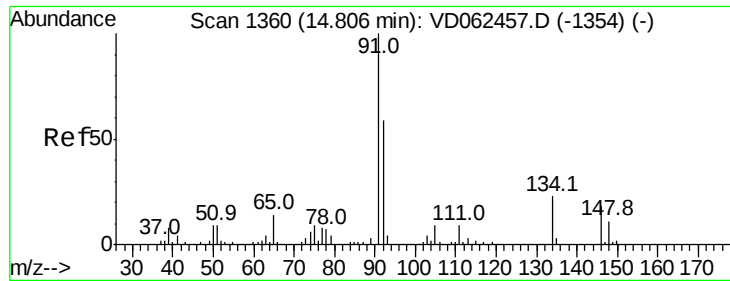
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#86
 p-Isopropyltoluene
 Concen: 931.524 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062513.D
 Acq: 22 May 2019 19:56

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	293515		
134	22.9	12.8	38.3	
91	29.8	10.7	32.1	





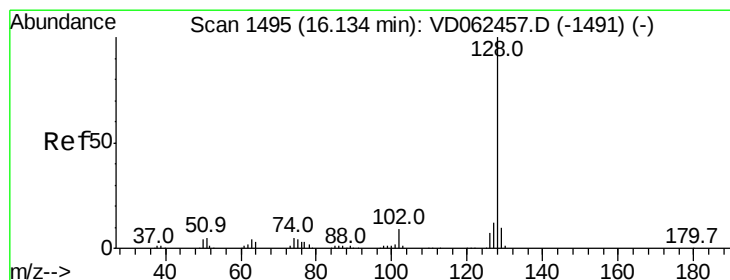
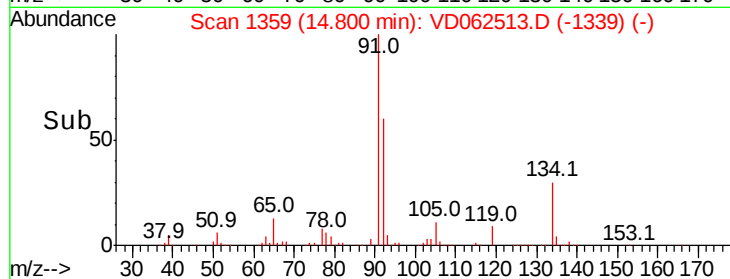
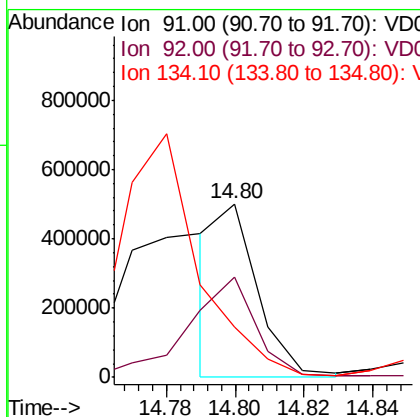
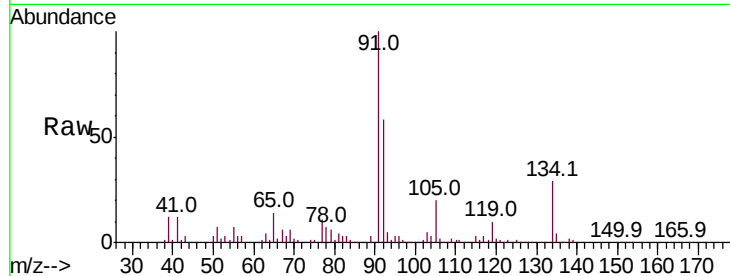
#89
n-Butylbenzene
Concen: 1321.012 ug/l m
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :
P-10(4.5-5.0)

Tot Ion	Ratio	Resp	Lower	Upper
91	100	401706		
92	58.0		30.3	91.0
134	29.0		14.5	43.6

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#95
Naphthalene
Concen: 1536.004 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD062513.D
Acq: 22 May 2019 19:56

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	244409		
127	12.3		9.8	14.8
129	10.4		8.8	13.2

