

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062504.D
 Acq On : 22 May 2019 15:54
 Operator : VA/AP
 Sample : K2996-03
 Misc : 5.40g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-2(4.5-5.0)

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 11:21:19 AM

Quant Time: May 23 03:57:01 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	7.13	168	149534m	50.00	ug/l	0.07
34) 1,4-Difluorobenzene	8.33	114	168705m	50.00	ug/l	0.10
63) Chlorobenzene-d5	12.49	117	117018	50.00	ug/l	0.11
72) 1,4-Dichlorobenzene-d4	14.52	152	4819	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.48	65	53613	33.49	ug/l	0.01
Spiked Amount	50.000		Recovery	=	66.98%	
35) Dibromofluoromethane	6.94	113	94789	62.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.56%	
50) Toluene-d8	10.70	98	798812m	239.84	ug/l	0.27
Spiked Amount	50.000		Recovery	=	479.68%	
62) 4-Bromofluorobenzene	13.58	95	289442m	198.67	ug/l	0.01
Spiked Amount	50.000		Recovery	=	397.34%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.83	50	48075m	46.409	ug/l	
17) Carbon Disulfide	3.35	76	59637	17.782	ug/l	96
31) Cyclohexane	7.08	56	7949353m	5259.790	ug/l	
39) Methylcyclohexane	9.11	83	44296831m	33297.129	ug/l	
40) Benzene	7.60	78	2690750m	850.482	ug/l	
52) Toluene	10.75	92	2175183m	1004.293	ug/l	
67) Ethyl Benzene	12.63	91	54152423m	13971.180	ug/l	
68) m/p-Xylenes	12.80	106	30820170m	22151.504	ug/l	
69) o-Xylene	13.11	106	879552	670.001	ug/l	90
73) Isopropylbenzene	13.44	105	15632891	51464.647	ug/l	85
78) n-propylbenzene	13.80	91	13931933	39595.649	ug/l	90
80) 1,3,5-Trimethylbenzene	13.96	105	12233562	46513.614	ug/l	87
83) tert-Butylbenzene	14.21	119	132013m	452.501	ug/l	
84) 1,2,4-Trimethylbenzene	14.28	105	20270403	75214.752	ug/l	74
85) sec-Butylbenzene	14.38	105	1016307	3340.892	ug/l	99
86) p-Isopropyltoluene	14.49	119	341953m	1240.416	ug/l	
89) n-Butylbenzene	14.80	91	669873m	2517.839	ug/l	
95) Naphthalene	16.12	128	305230	2192.499	ug/l	100

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

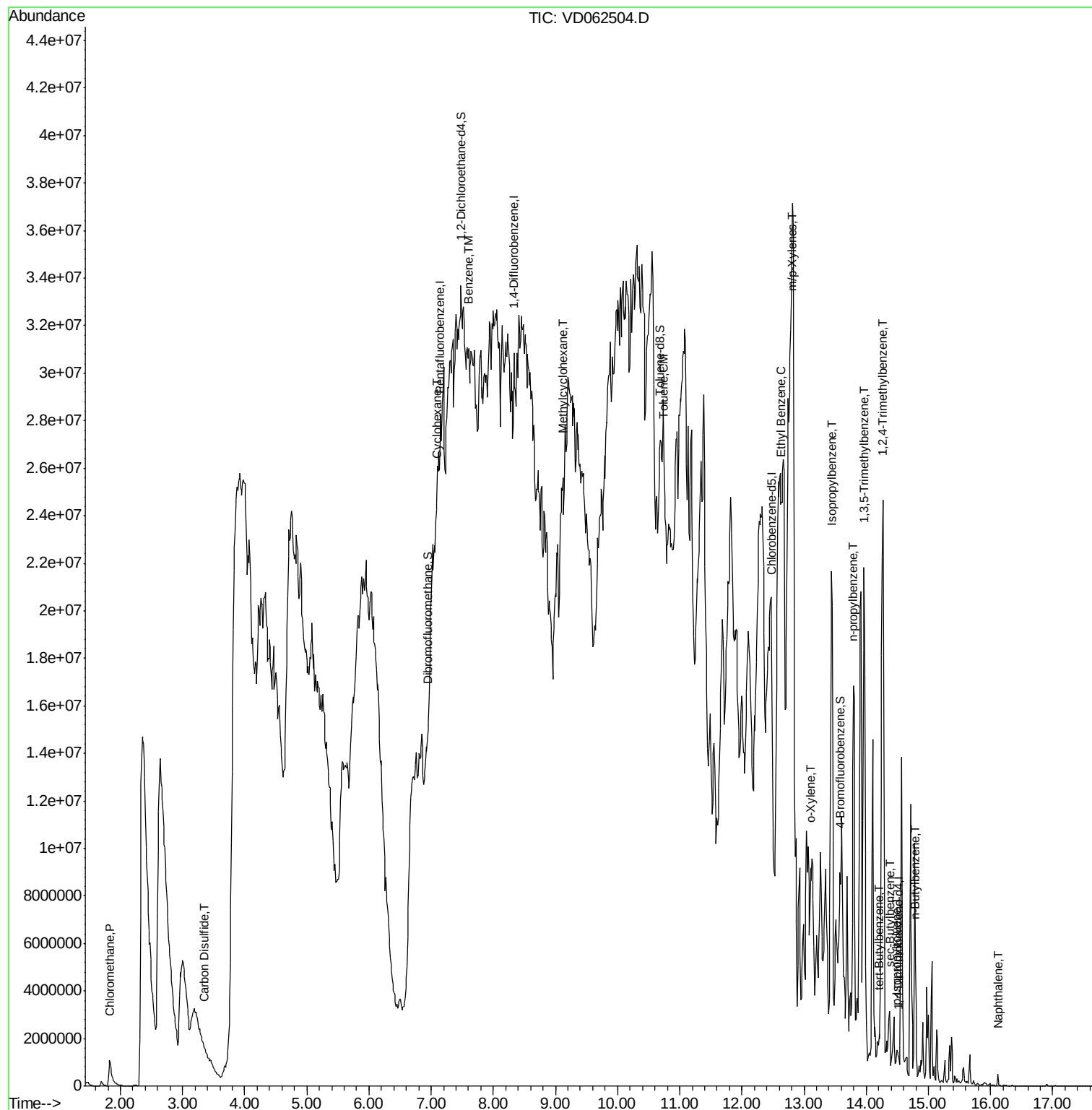
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062504.D
Acq On : 22 May 2019 15:54
Operator : VA/AP
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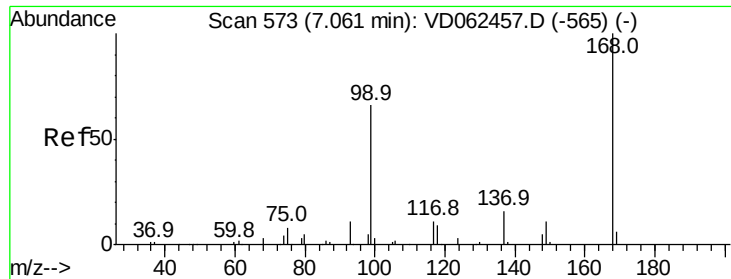
Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

Manual Integrations
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5/23/2019 11:21:19 AM

Quant Time: May 23 03:57:01 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: 7.13 min Scan# 580

Delta R.T. 0.07 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion:168 Resp: 149534

Ion Ratio Lower Upper

168 100

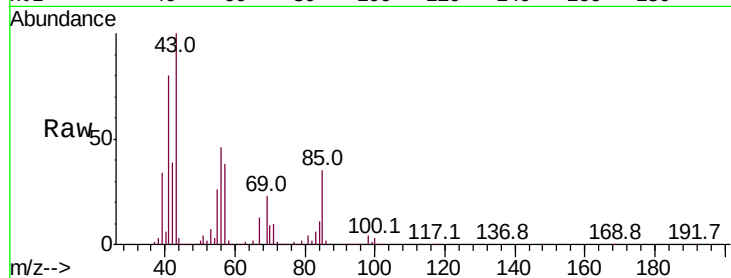
99 283.3 46.5 69.7#

Manual Integrations

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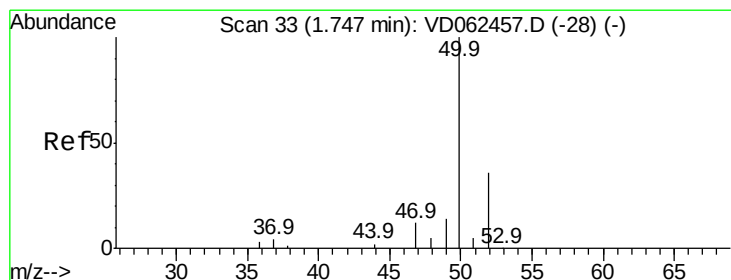
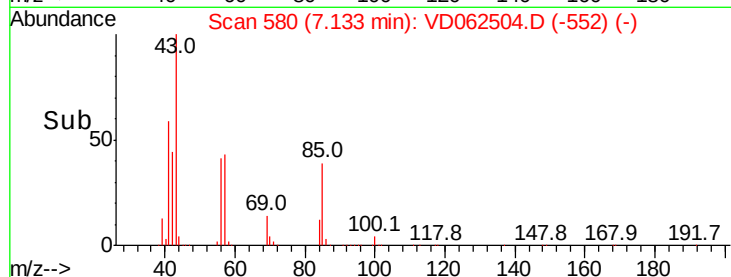
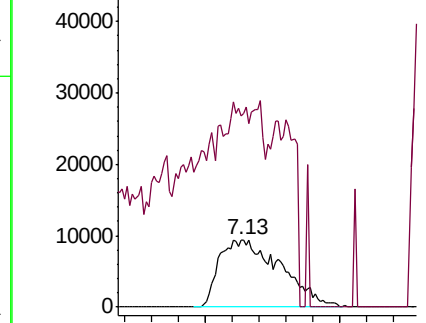
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 46.409 ug/l m

RT: 1.83 min Scan# 41

Delta R.T. 0.08 min

Lab File: VD062504.D

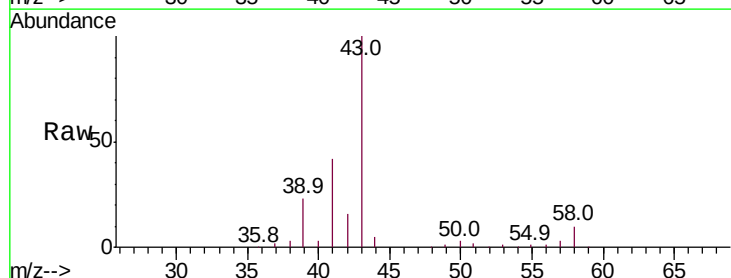
Acq: 22 May 2019 15:54

Tgt Ion: 50 Resp: 48075

Ion Ratio Lower Upper

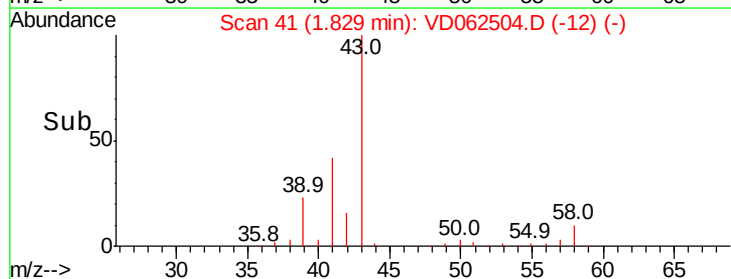
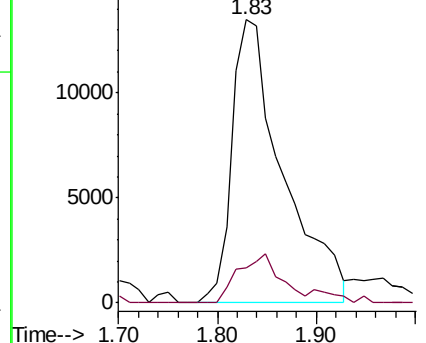
50 100

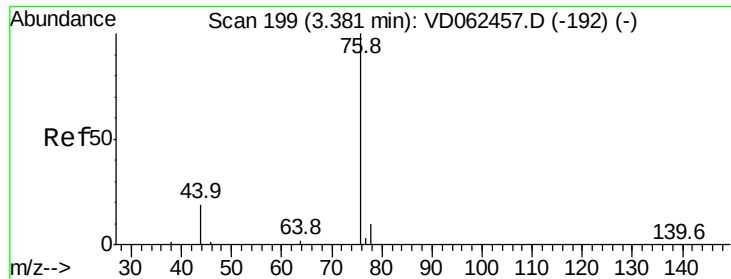
52 12.5 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#17

Carbon Disulfide

Concen: 17.782 ug/l

RT: 3.35 min Scan# 196

Delta R.T. -0.03 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion: 76 Resp: 59637

Ion Ratio Lower Upper

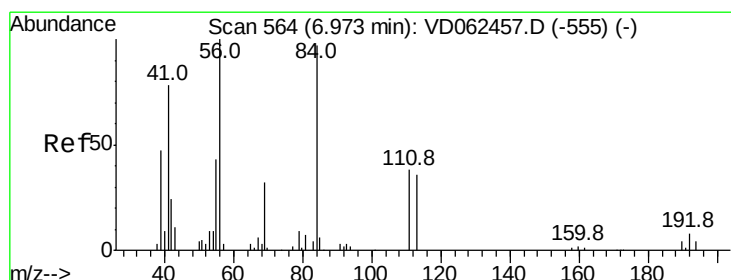
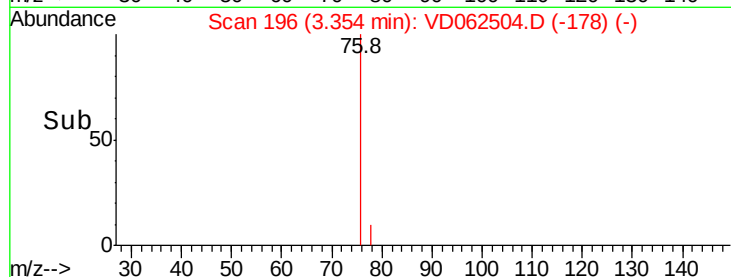
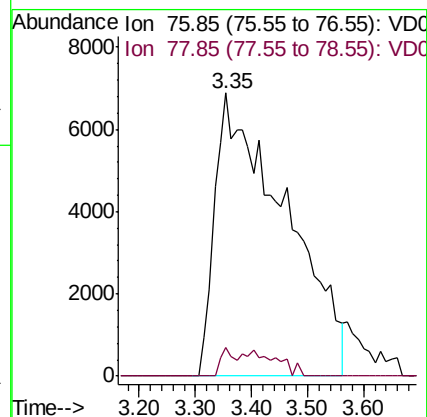
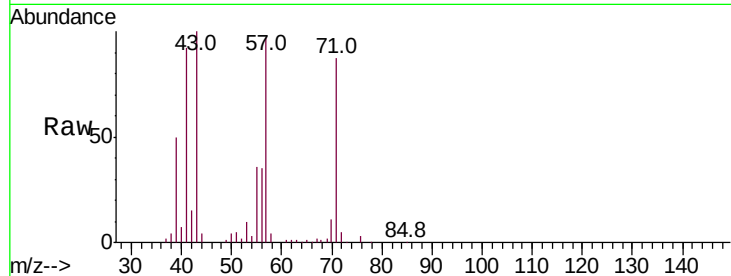
76 100

78 10.3 7.2 10.8

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#31

Cyclohexane

Concen: 5259.790 ug/l m

RT: 7.08 min Scan# 575

Delta R.T. 0.11 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

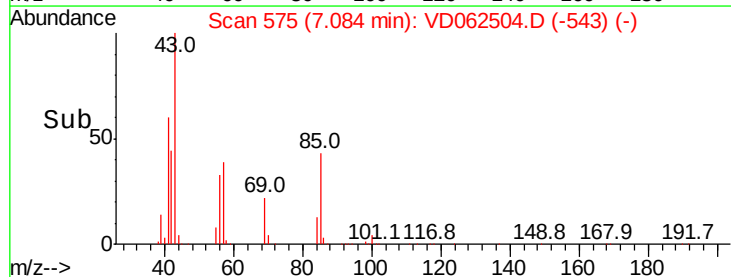
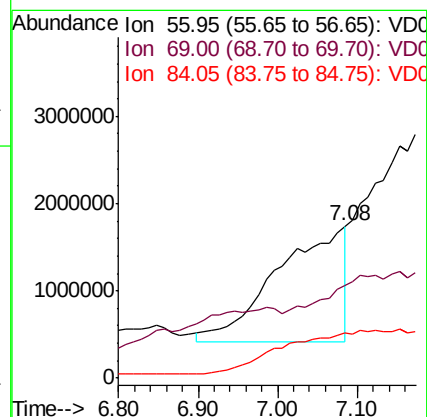
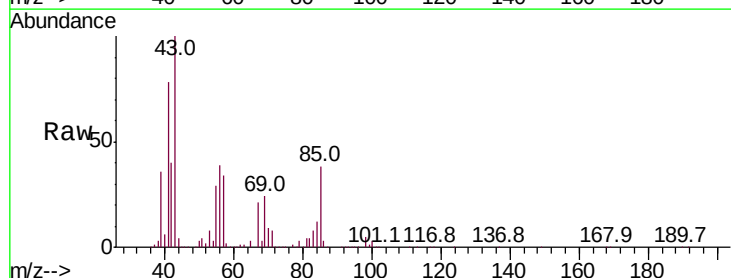
Tgt Ion: 56 Resp: 7949353

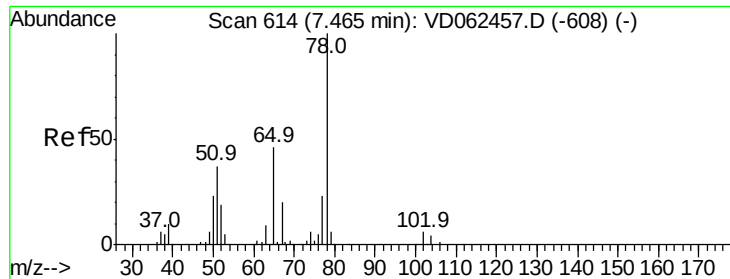
Ion Ratio Lower Upper

56 100

69 61.3 25.8 38.6#

84 29.6 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: 33.494 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

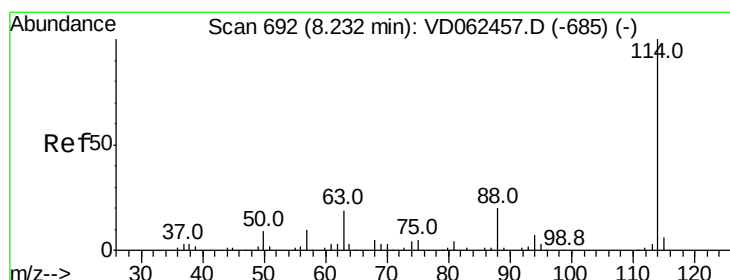
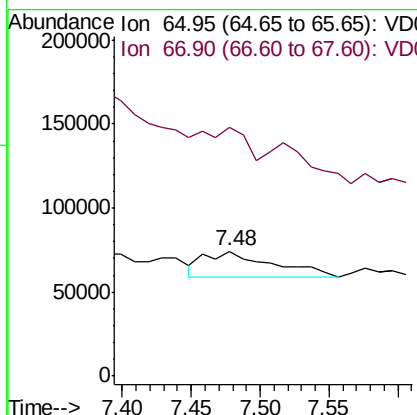
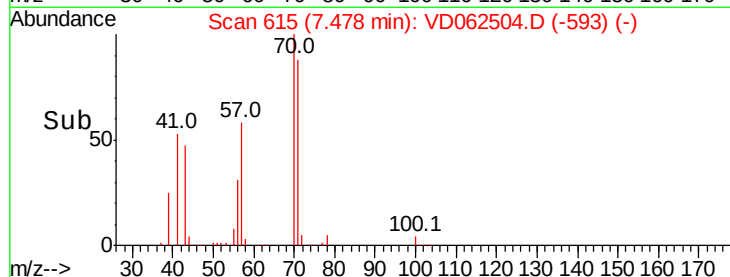
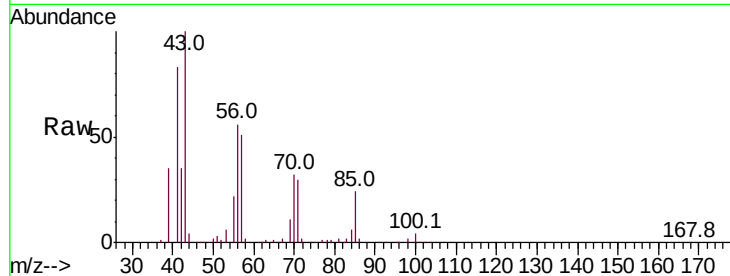
Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

Tot Ion: 65 Resp: 53613

Ion	Ratio	Lower	Upper
65	100		
67	198.5	0.0	98.0#

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l m

RT: 8.33 min Scan# 702

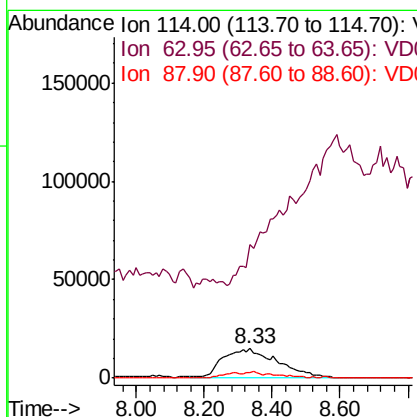
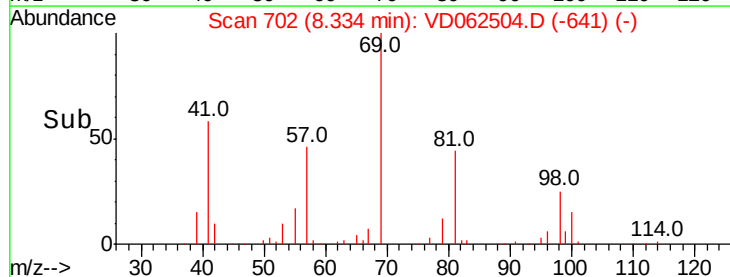
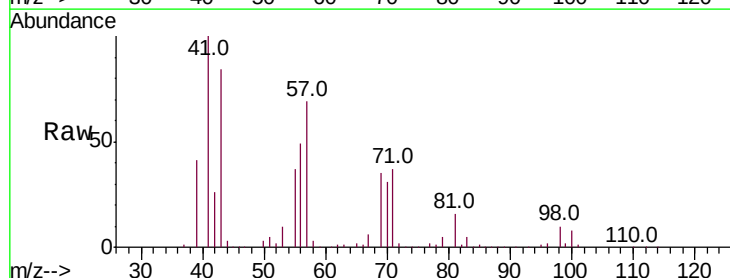
Delta R.T. 0.10 min

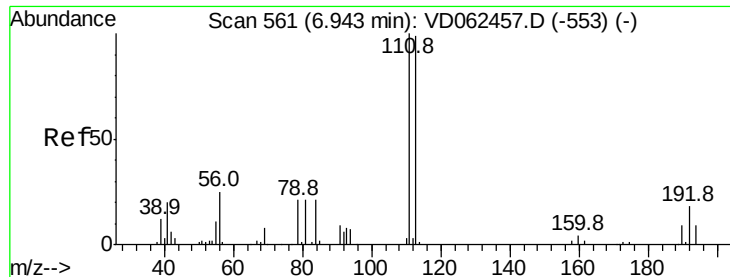
Lab File: VD062504.D

Acq: 22 May 2019 15:54

Tgt Ion: 114 Resp: 168705

Ion	Ratio	Lower	Upper
114	100		
63	447.2	0.0	32.4#
88	17.5	0.0	33.6





#35

Dibromofluoromethane

Concen: 62.282 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

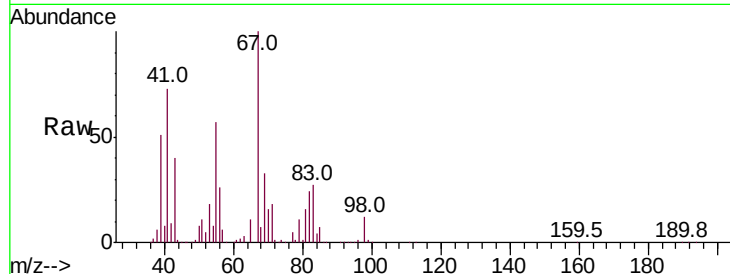
ClientSampled :

P-2(4.5-5.0)

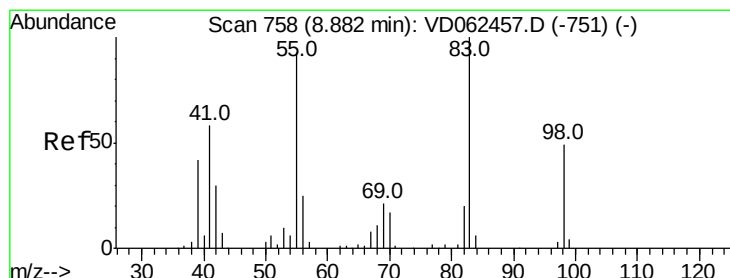
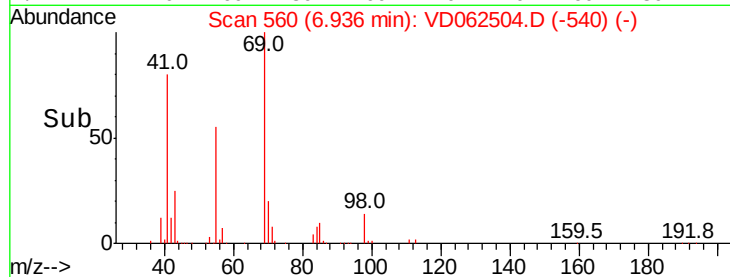
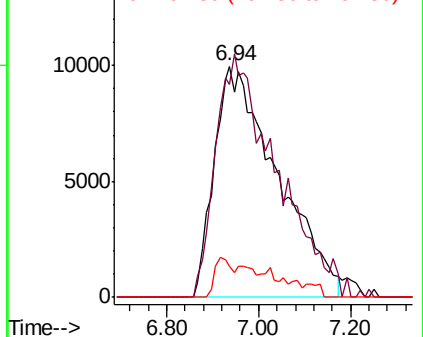
Tot Ion:	113	Resp:	94789
Ion	Ratio	Lower	Upper
113	100		
111	91.8	78.5	117.7
192	13.3	13.0	19.4

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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



#39

Methylcyclohexane

Concen: 33297.129 ug/l m

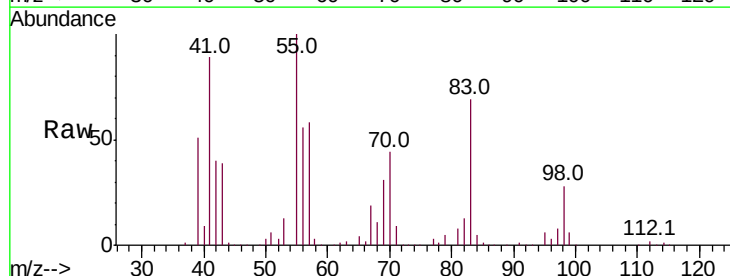
RT: 9.11 min Scan# 781

Delta R.T. 0.23 min

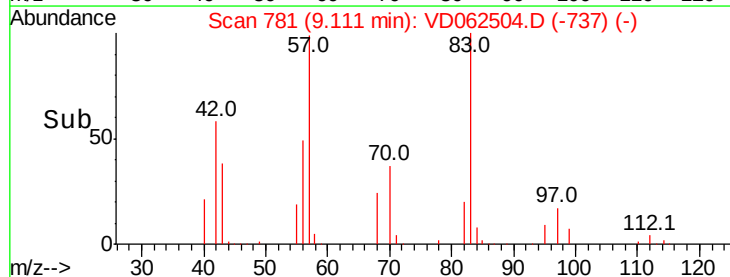
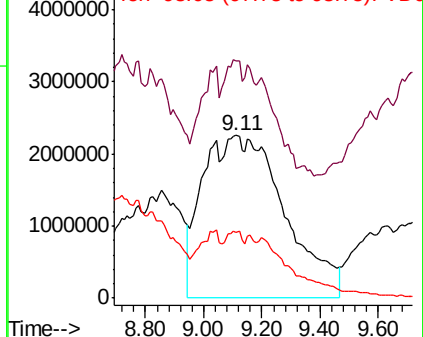
Lab File: VD062504.D

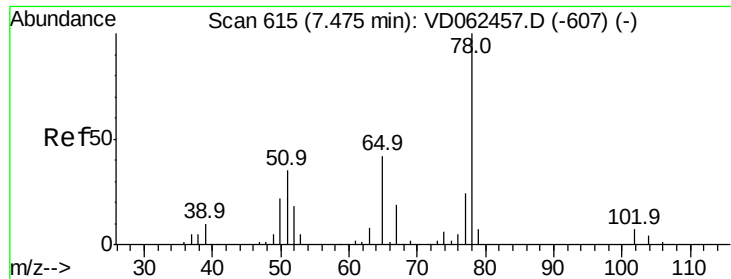
Acq: 22 May 2019 15:54

Tgt Ion:	83	Resp:	44296831
Ion	Ratio	Lower	Upper
83	100		
55	145.9	68.2	102.4#
98	40.4	38.2	57.4



Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC





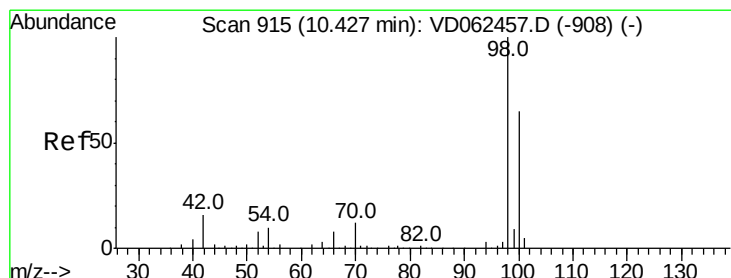
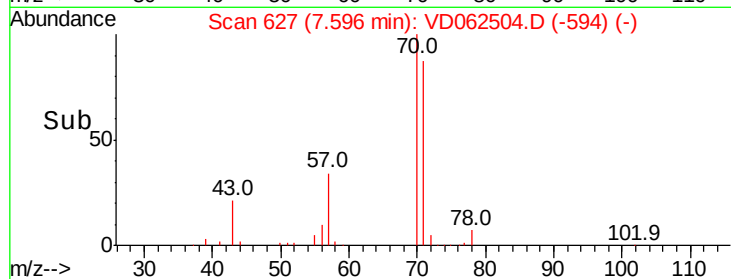
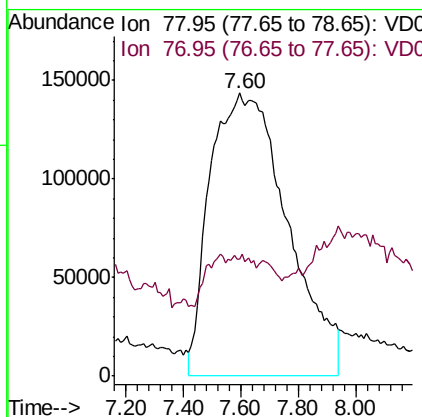
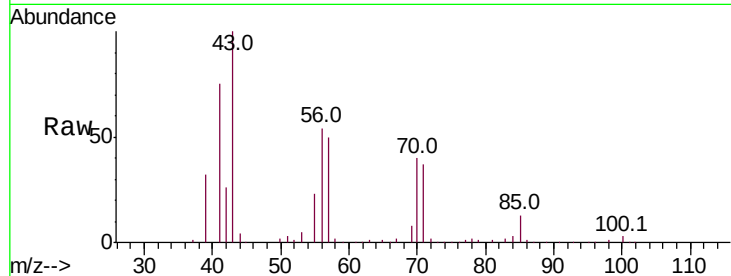
#40
Benzene
Concen: 850.482 ug/l m
RT: 7.60 min Scan# 627
Delta R.T. 0.12 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

Tot Ion: 78 Resp: 2690750
Ion Ratio Lower Upper
78 100
77 41.2 19.7 29.5#

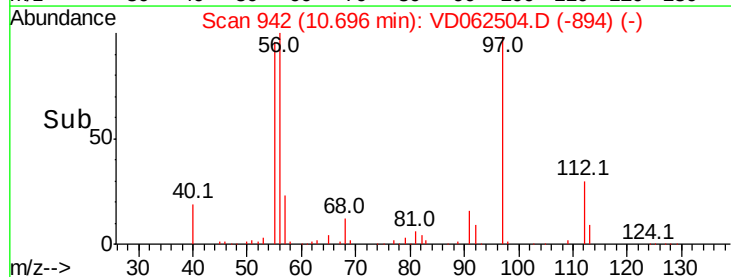
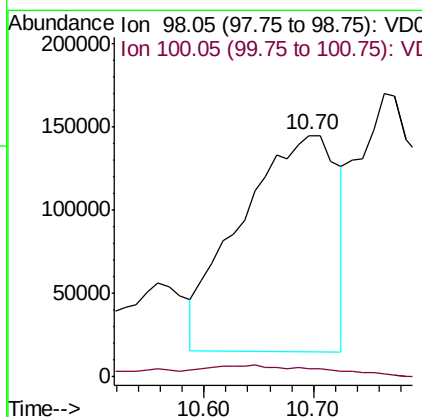
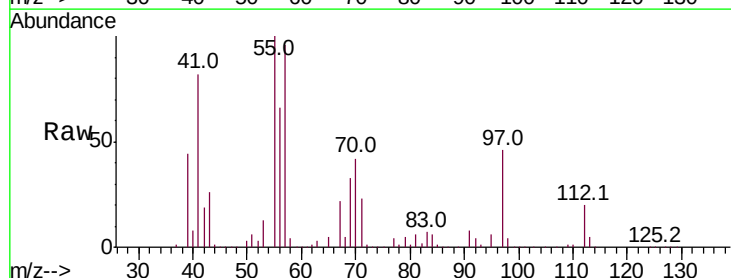
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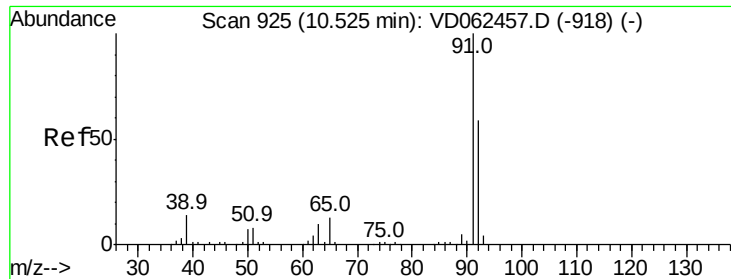
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#50
Toluene-d8
Concen: 239.843 ug/l m
RT: 10.70 min Scan# 942
Delta R.T. 0.27 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion: 98 Resp: 798812
Ion Ratio Lower Upper
98 100
100 3.3 53.8 80.8#





#52

Toluene

Concen: 1004.293 ug/l m

RT: 10.75 min Scan# 948

Delta R.T. 0.23 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion: 92 Resp: 2175183

Ion Ratio Lower Upper

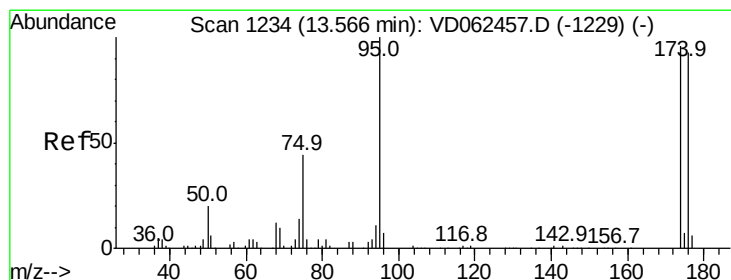
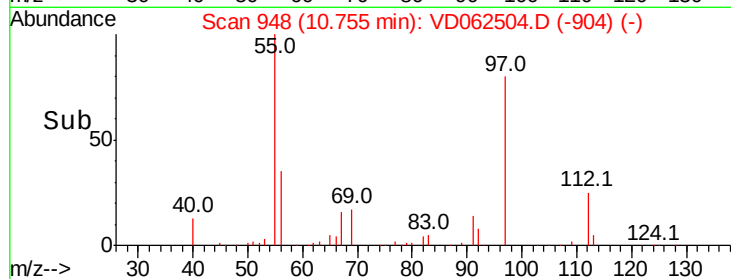
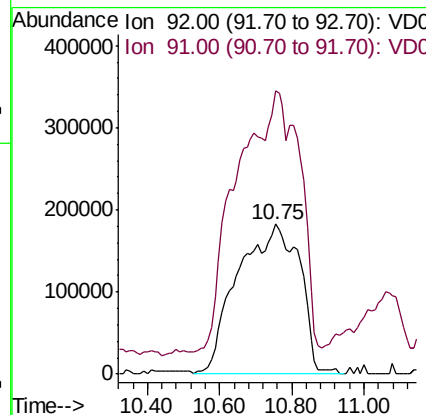
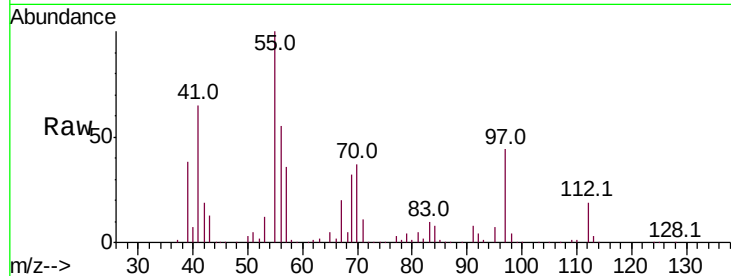
92 100

91 189.0 136.6 204.8

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5/23/2019 11:21:19 AM



#62

4-Bromofluorobenzene

Concen: 198.668 ug/l m

RT: 13.58 min Scan# 1235

Delta R.T. 0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

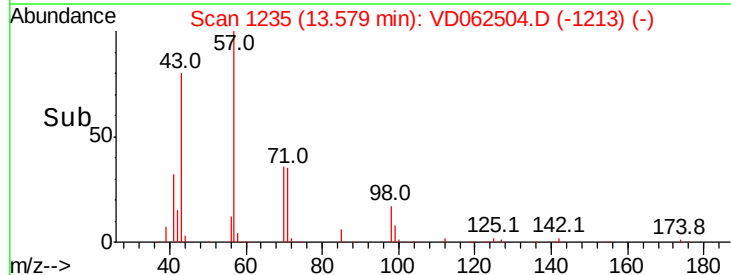
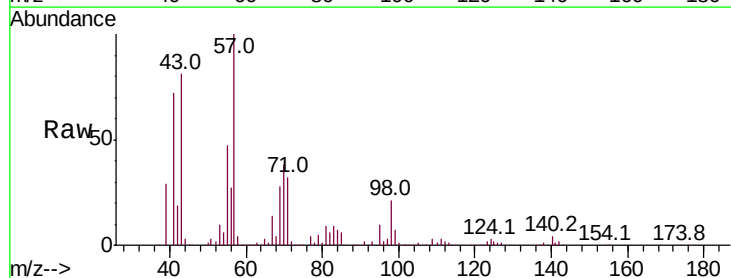
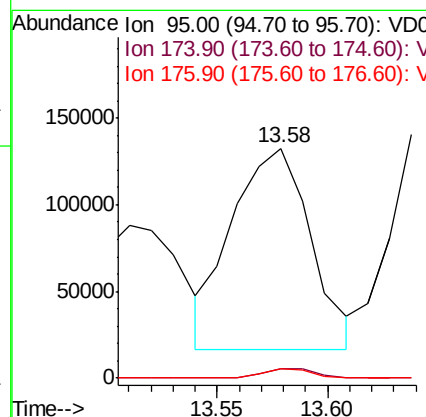
Tgt Ion: 95 Resp: 289442

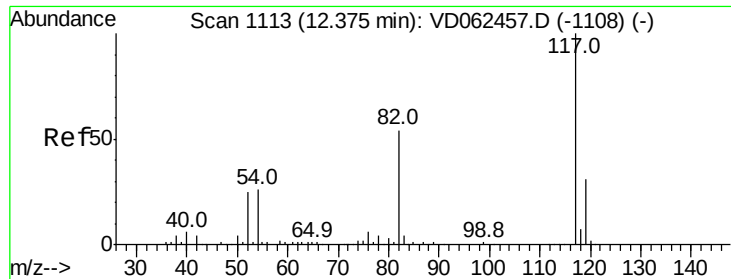
Ion Ratio Lower Upper

95 100

174 4.0 0.0 181.8

176 3.9 0.0 174.4





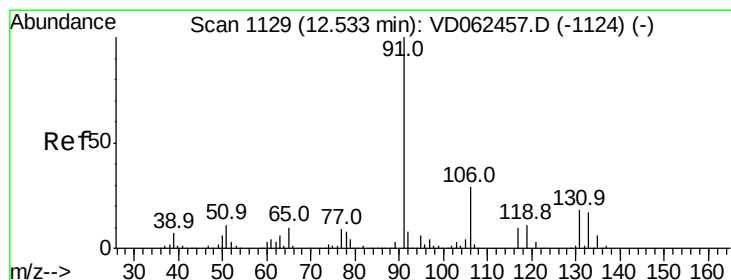
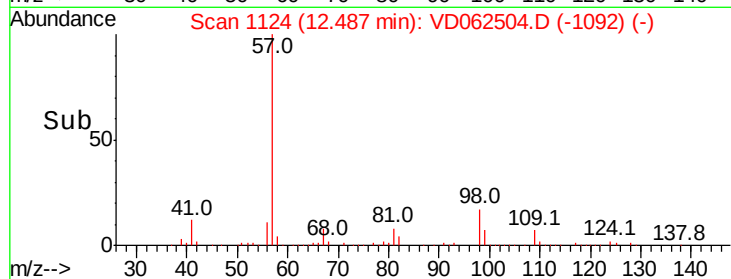
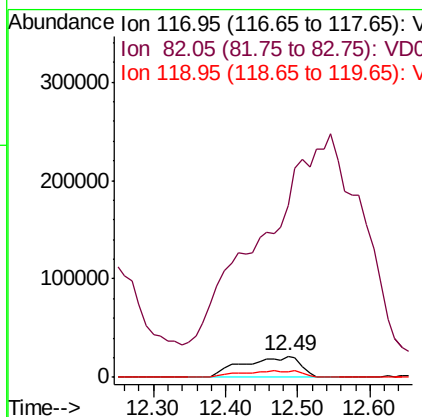
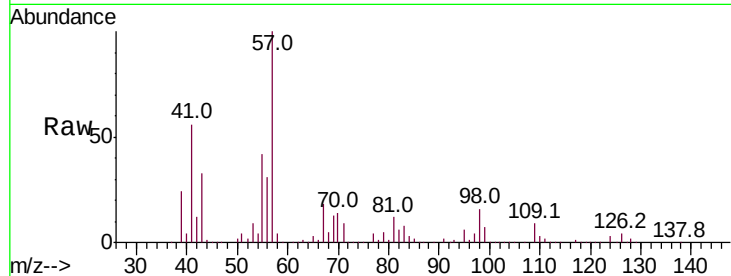
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.49 min Scan# 1124
Delta R.T. 0.11 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Instrument :
MSVOA_D
ClientSampleId :
P-2(4.5-5.0)

Tot Ion	Ratio	Lower	Upper
117	100		
82	807.4	36.2	54.2#
119	28.3	26.2	39.4

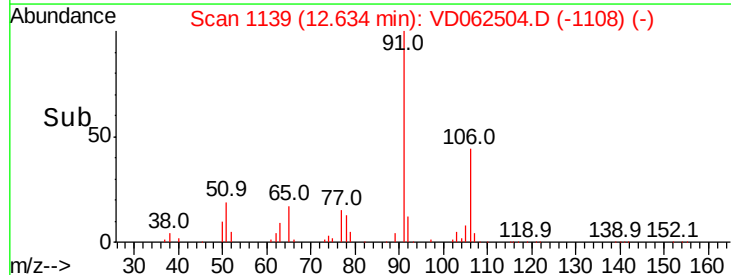
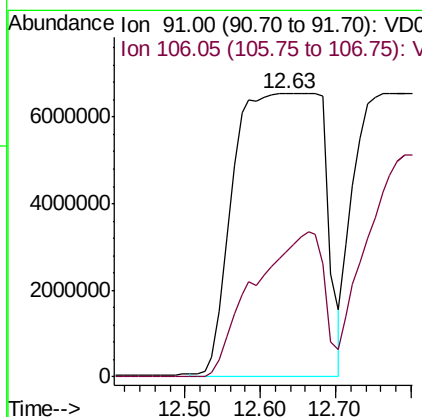
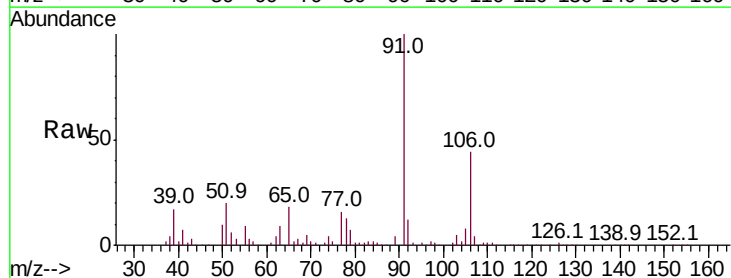
Manual Integrations
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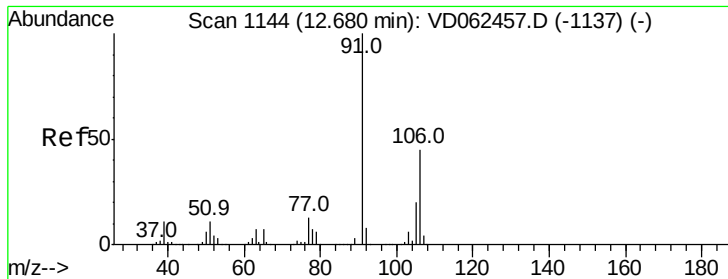
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5/23/2019 11:21:19 AM



#67
Ethyl Benzene
Concen: 13971.180 ug/l m
RT: 12.63 min Scan# 1139
Delta R.T. 0.10 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.1	24.7	37.1#





#68

m/p-Xylenes

Concen: 22151.504 ug/l m

RT: 12.80 min Scan# 1156

Delta R.T. 0.12 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion:106 Resp:30820170

Ion Ratio Lower Upper

106 100

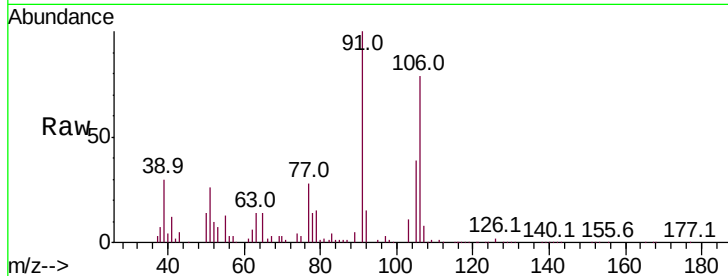
91 127.2 164.0 246.0#

Manual Integrations

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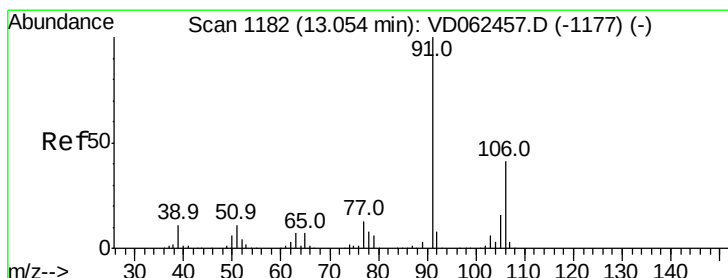
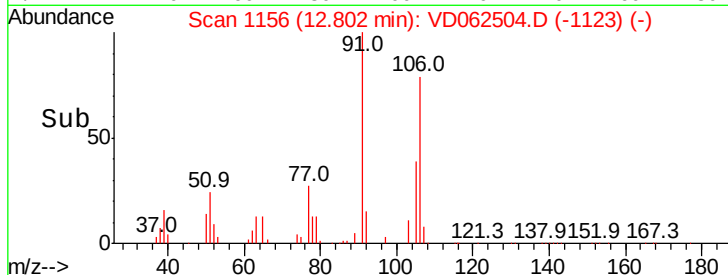
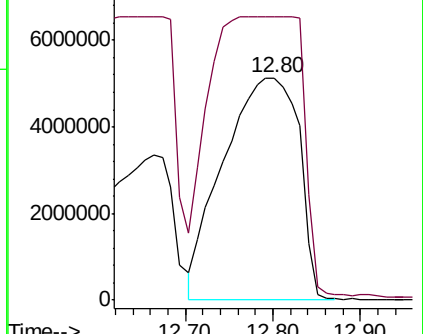
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Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 670.001 ug/l

RT: 13.11 min Scan# 1187

Delta R.T. 0.05 min

Lab File: VD062504.D

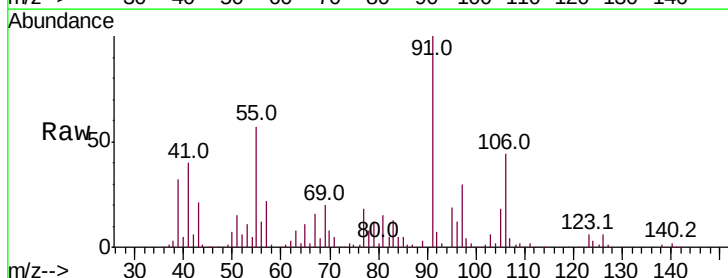
Acq: 22 May 2019 15:54

Tgt Ion:106 Resp: 879552

Ion Ratio Lower Upper

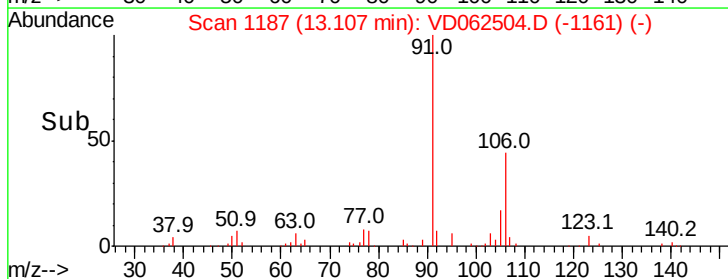
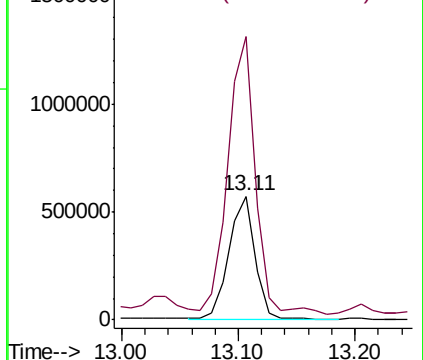
106 100

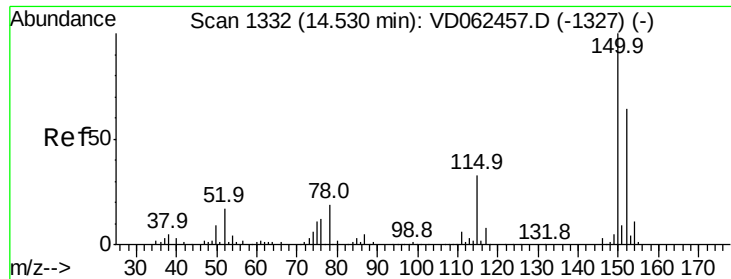
91 229.0 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion:152 Resp: 4819

Ion Ratio Lower Upper

152 100

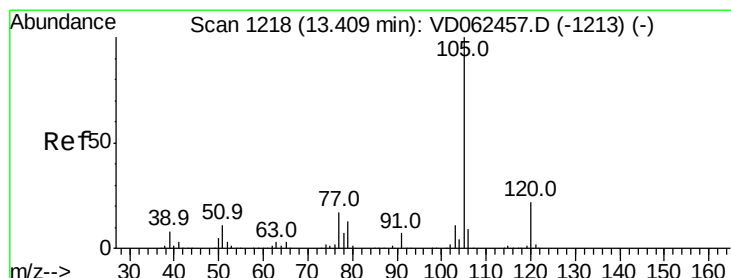
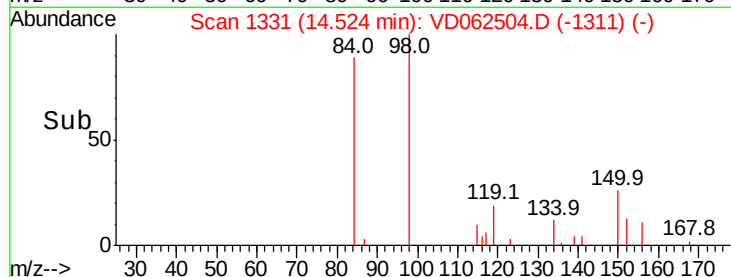
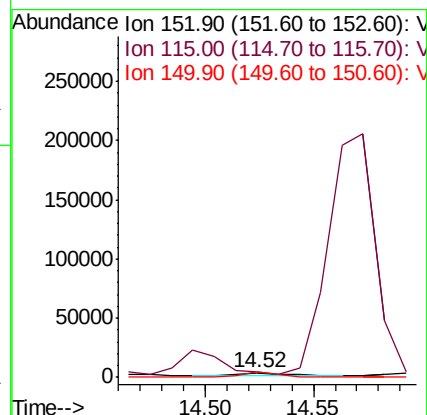
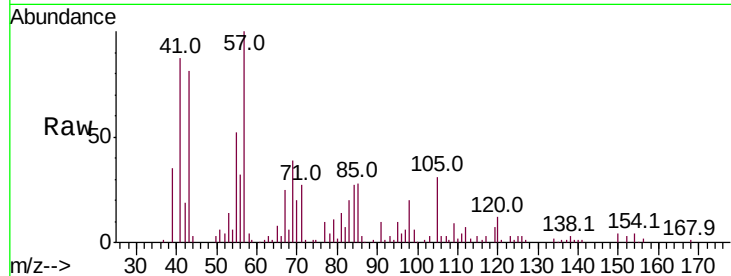
115 109.6 30.9 92.7#

150 115.0 0.0 314.8

Manual Integrations
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5/23/2019 11:21:19 AM



#73

Isopropylbenzene

Concen: 51464.647 ug/l

RT: 13.44 min Scan# 1221

Delta R.T. 0.03 min

Lab File: VD062504.D

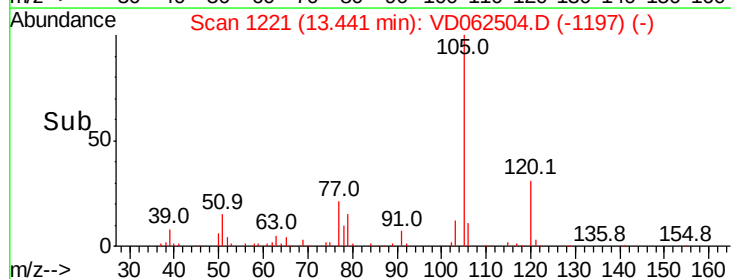
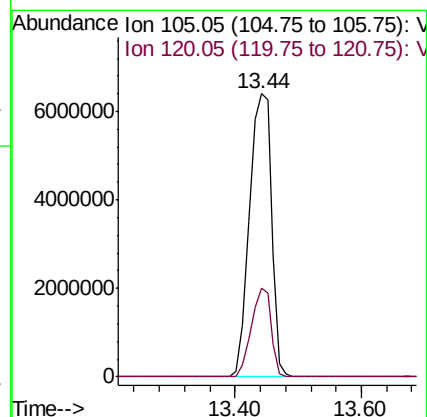
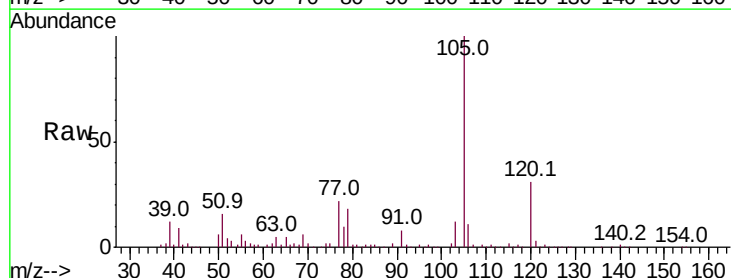
Acq: 22 May 2019 15:54

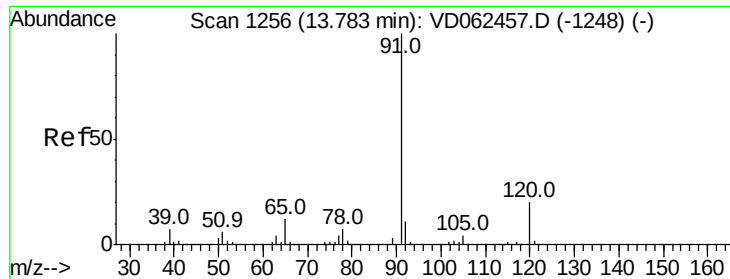
Tgt Ion:105 Resp:15632891

Ion Ratio Lower Upper

105 100

120 31.4 12.0 36.1





#78

n-propylbenzene

Concen: 39595.649 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VD062504.D

Acq: 22 May 2019 15:54

Instrument :

MSVOA_D

ClientSampleId :

P-2(4.5-5.0)

Tot Ion: 91 Resp:13931933

Ion Ratio Lower Upper

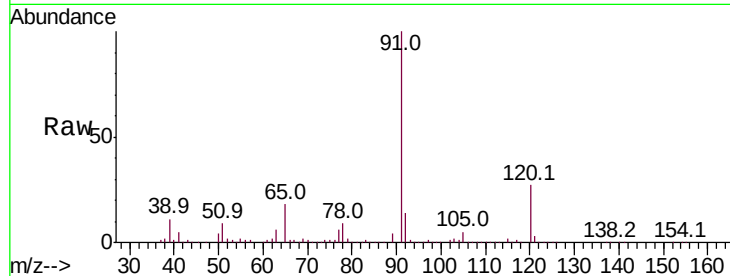
91 100

120 27.1 11.1 33.1

Manual Integrations
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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

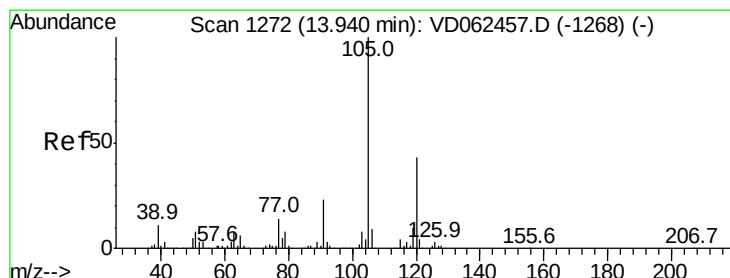
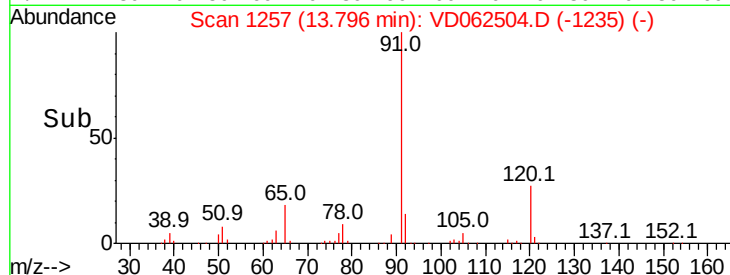
6000000

4000000

2000000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 46513.614 ug/l

RT: 13.96 min Scan# 1274

Delta R.T. 0.02 min

Lab File: VD062504.D

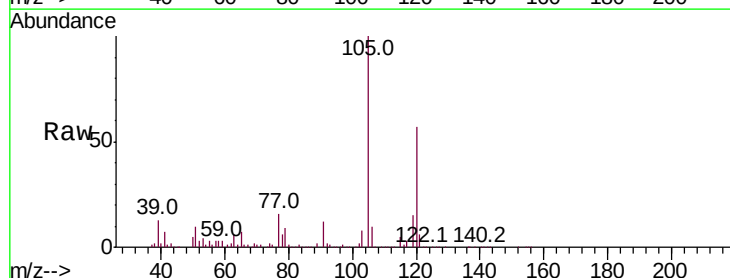
Acq: 22 May 2019 15:54

Tgt Ion:105 Resp:12233562

Ion Ratio Lower Upper

105 100

120 56.7 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.96

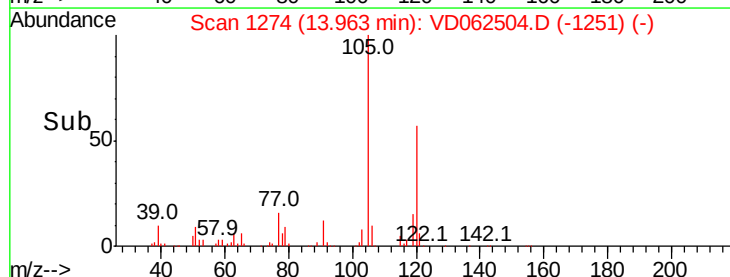
6000000

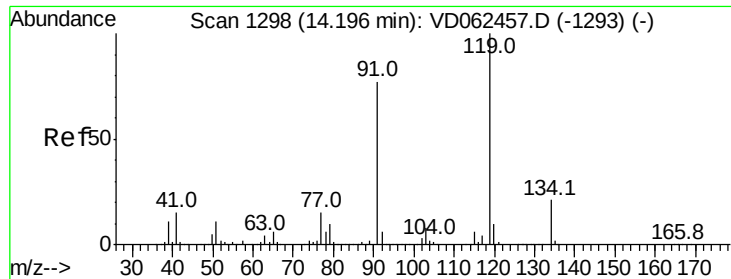
4000000

2000000

0

Time-->





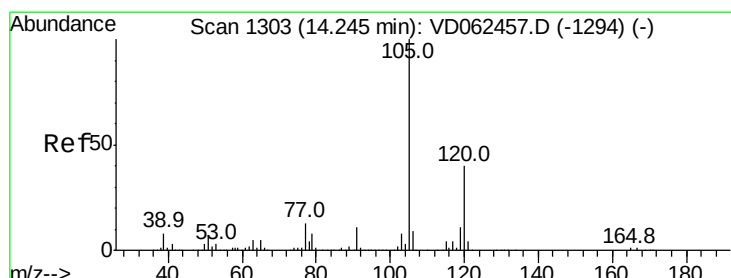
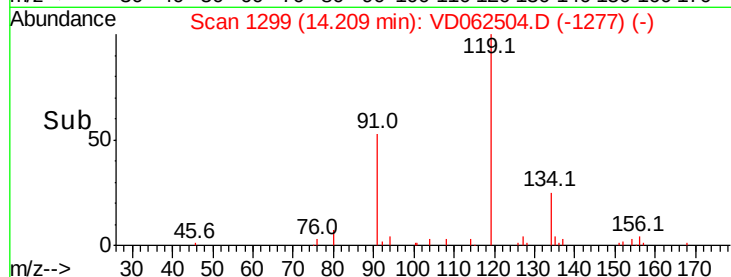
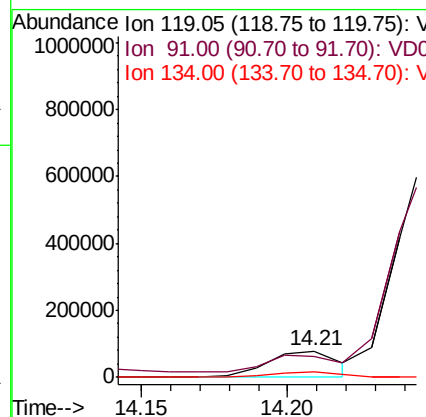
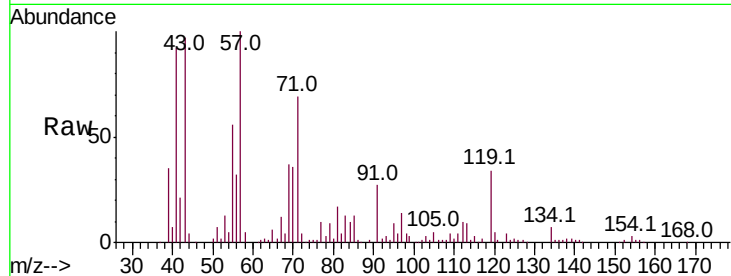
#83
tert-Butylbenzene
Concen: 452.501 ug/l m
RT: 14.21 min Scan# 1299
Delta R.T. 0.01 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Instrument :
MSVOA_D
ClientSampled :
P-2(4.5-5.0)

Tot Ion	Ratio	Lower	Upper
119	100		
91	79.9	34.2	102.6
134	20.5	12.0	36.0

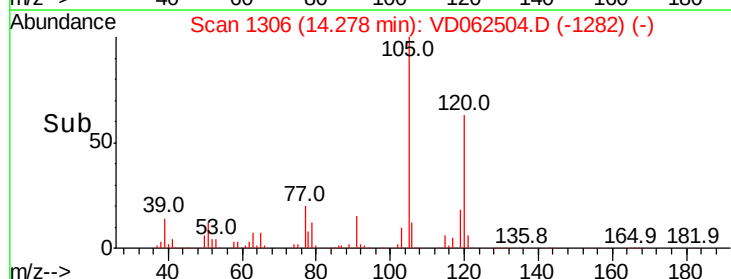
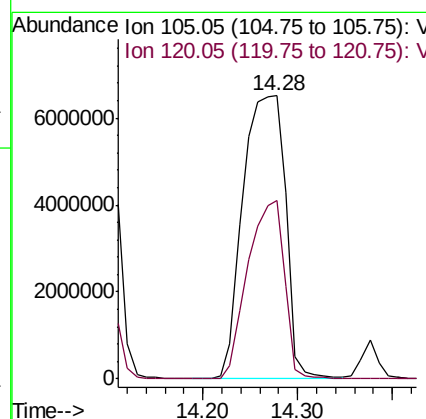
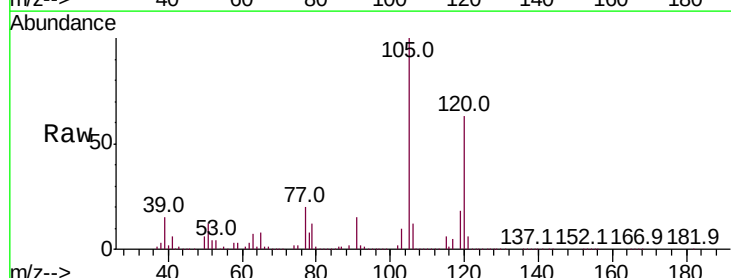
Manual Integrations
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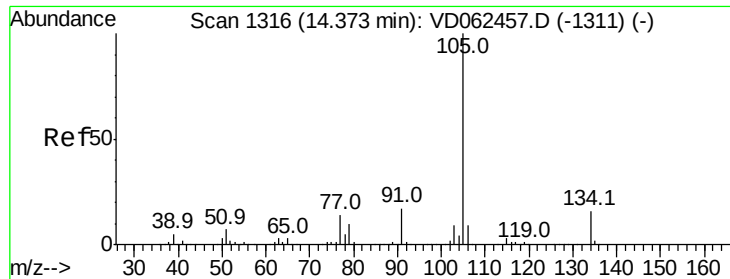
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5/23/2019 11:21:19 AM



#84
1,2,4-Trimethylbenzene
Concen: 75214.752 ug/l
RT: 14.28 min Scan# 1306
Delta R.T. 0.03 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	63.1	23.1	69.2





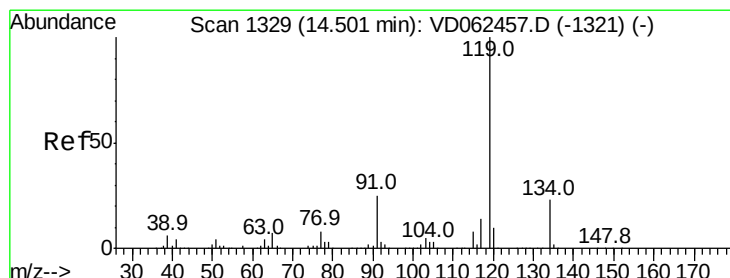
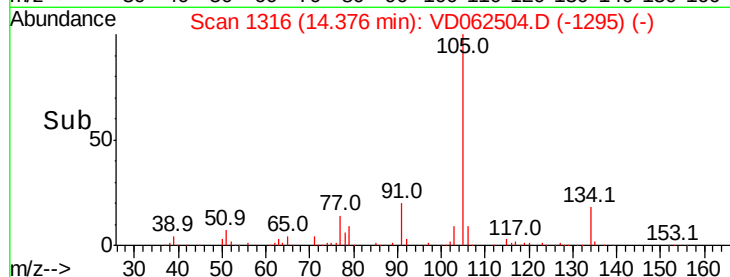
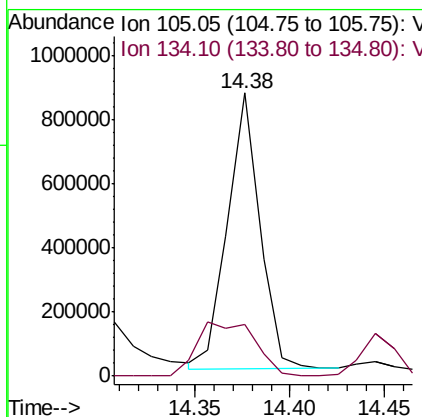
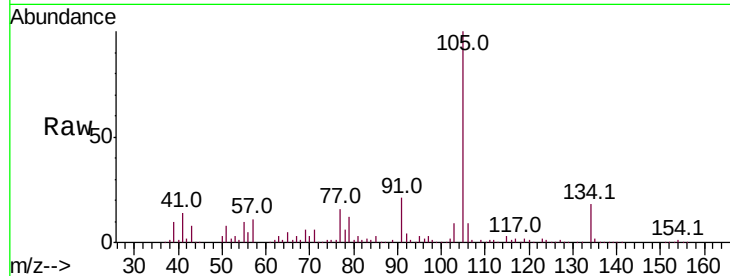
#85
 sec-Butylbenzene
 Concen: 3340.892 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Instrument :
 MSVOA_D
 ClientSampled :
 P-2(4.5-5.0)

Tot Ion:105 Resp: 1016307
 Ion Ratio Lower Upper
 105 100
 134 18.1 8.9 26.7

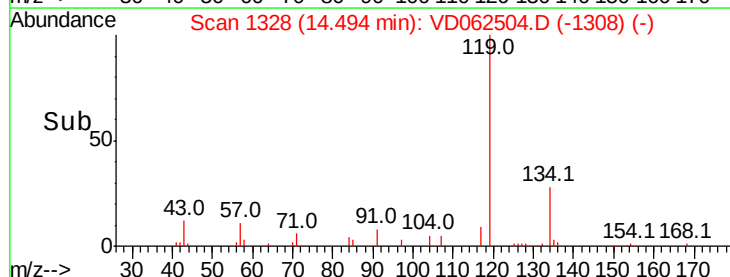
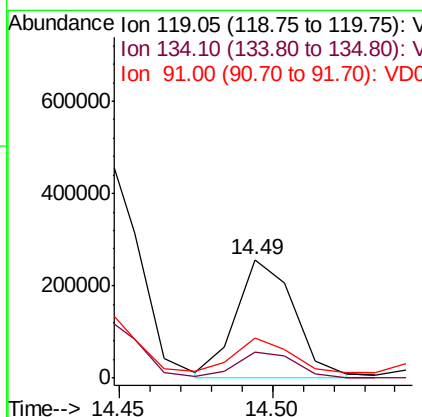
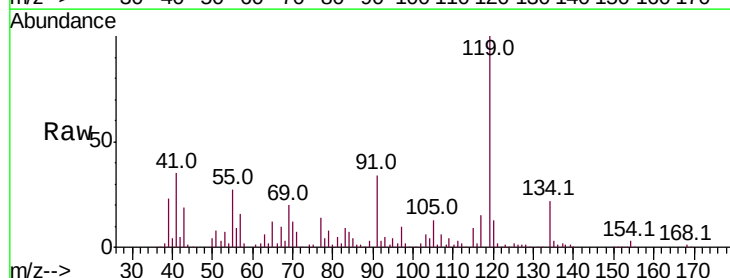
Manual Integrations
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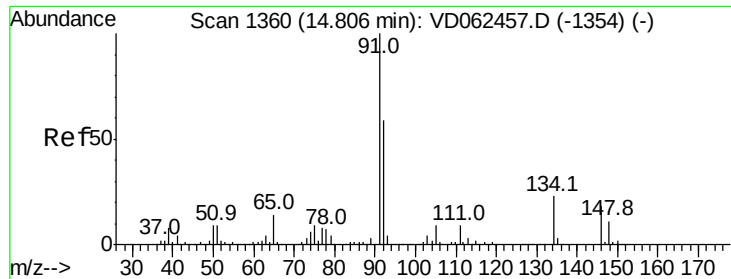
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#86
 p-Isopropyltoluene
 Concen: 1240.416 ug/l m
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062504.D
 Acq: 22 May 2019 15:54

Tgt Ion:119 Resp: 341953
 Ion Ratio Lower Upper
 119 100
 134 21.8 12.8 38.3
 91 33.7 10.7 32.1#





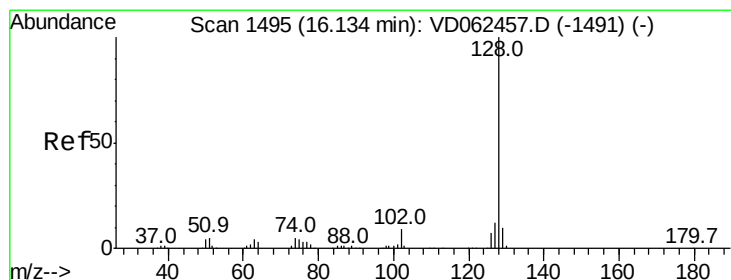
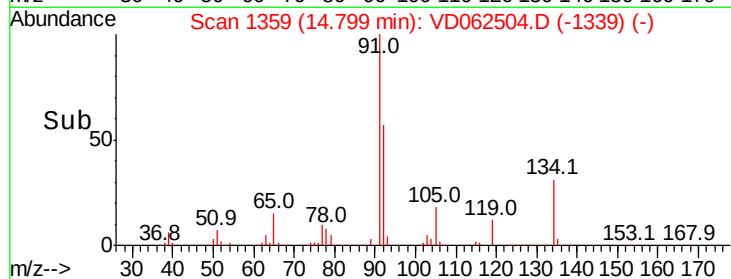
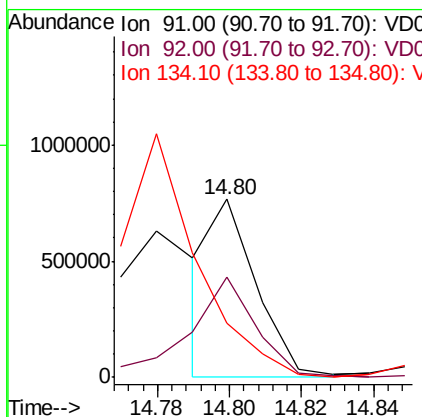
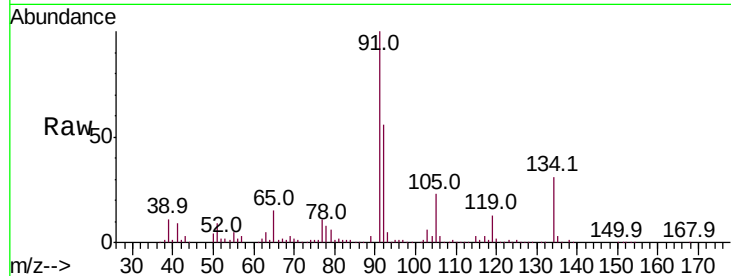
#89
n-Butylbenzene
Concen: 2517.839 ug/l m
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Instrument :
MSVOA_D
ClientSampled :
P-2(4.5-5.0)

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.3	30.3	91.0
134	30.6	14.5	43.6

Manual Integrations
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5/23/2019 11:21:19 AM



#95
Naphthalene
Concen: 2192.499 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD062504.D
Acq: 22 May 2019 15:54

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.2	9.8	14.8
129	11.3	8.8	13.2

