

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112019\
 Data File : VD064317.D
 Acq On : 20 Nov 2019 17:13
 Operator : VA/SY
 Sample : K5957-04
 Misc : 5.20G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MW-2-(20-22)

Manual Integrations
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 11/22/2019 12:52:20 AM

Quant Time: Nov 21 07:26:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.00	168	974373	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.88	114	1497420	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.65	117	1068688	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2566338	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	472665	58.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.96%	
35) Dibromofluoromethane	7.93	113	484535	56.37	ug/l	0.01
Spiked Amount	50.000		Recovery	=	112.74%	
50) Toluene-d8	10.36	98	4968431	153.23	ug/l	0.01
Spiked Amount	50.000		Recovery	=	306.46%	
62) 4-Bromofluorobenzene	12.64	95	43257540m	3852.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	7704.46%	
Target Compounds						
					Qvalue	
16) Acetone	4.17	43	44653	23.521	ug/l	97
17) Carbon Disulfide	4.41	76	86283	3.384	ug/l	98
31) Cyclohexane	8.00	56	2531544	160.955	ug/l	94
39) Methylcyclohexane	9.37	83	23744383	1357.821	ug/l	94
40) Benzene	8.37	78	72505	1.920	ug/l	99
44) Trichloroethene	9.13	130	107846	9.514	ug/l	98
64) Tetrachloroethene	10.89	164	717935	87.349	ug/l	98
67) Ethyl Benzene	11.75	91	44386003m	1129.150	ug/l	
68) m/p-Xylenes	11.86	106	48995469m	3251.779	ug/l	
73) Isopropylbenzene	12.50	105	39945669m	212.061	ug/l	
78) n-propylbenzene	12.83	91	44869279m	208.487	ug/l	
80) 1,3,5-Trimethylbenzene	12.93	105	58284528m	376.558	ug/l	
83) tert-Butylbenzene	13.27	119	9185111m	67.298	ug/l	
84) 1,2,4-Trimethylbenzene	13.27	105	44900843m	293.833	ug/l	
85) sec-Butylbenzene	13.41	105	25292647m	137.977	ug/l	
86) p-Isopropyltoluene	13.53	119	23240522m	133.357	ug/l	
89) n-Butylbenzene	13.85	91	16988732m	107.902	ug/l	
95) Naphthalene	15.41	128	2059395	22.650	ug/l	100

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

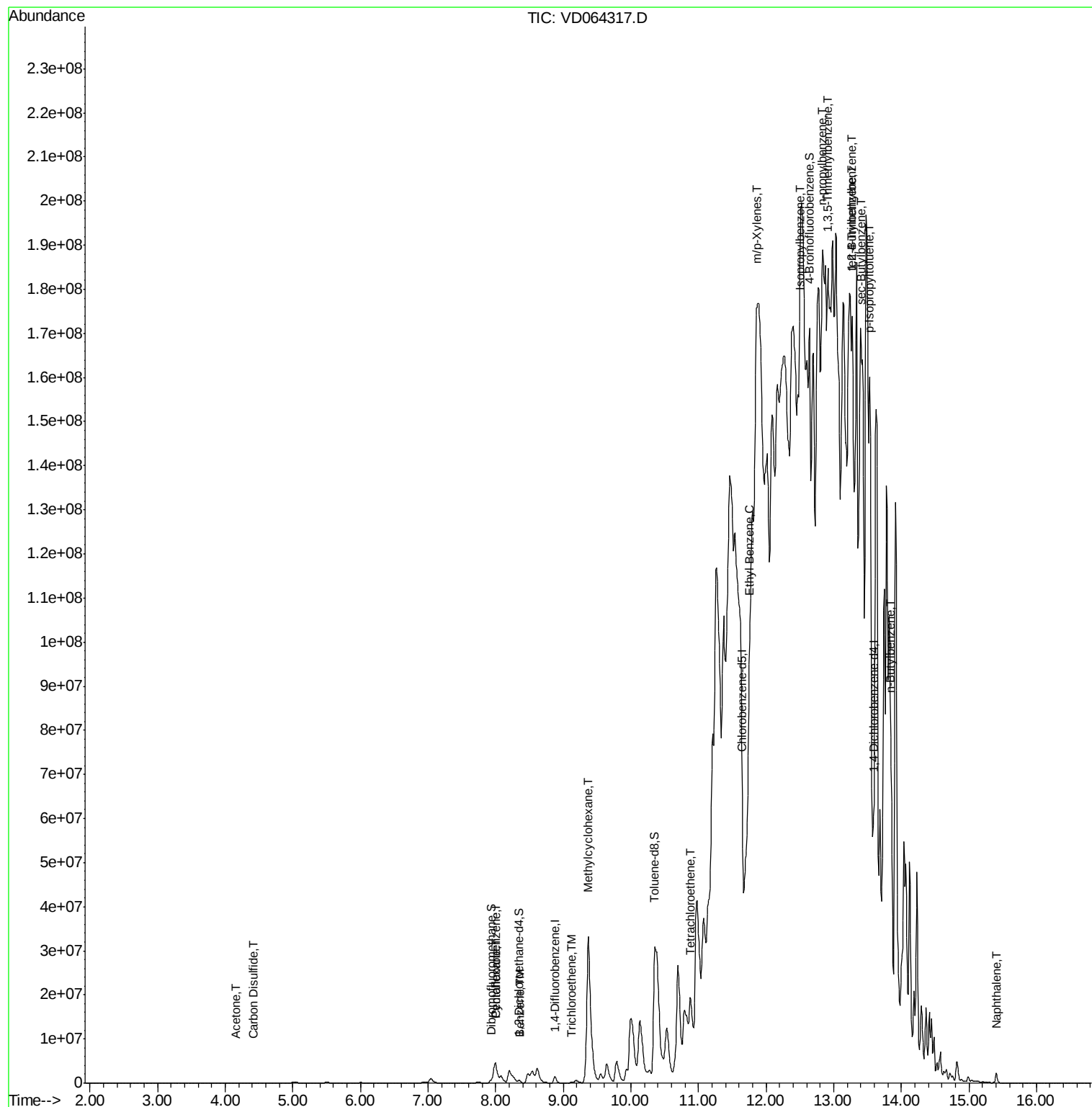
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD112019\
Data File : VD064317.D
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ALS Vial : 14 Sample Multiplier: 1

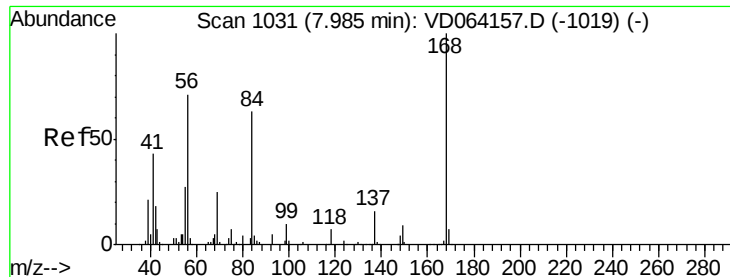
Instrument :
MSVOA_D
ClientSampleId :
MW-2-(20-22)

Manual Integrations
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Quant Time: Nov 21 07:26:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion:168 Resp: 974373

Ion Ratio Lower Upper

168 100

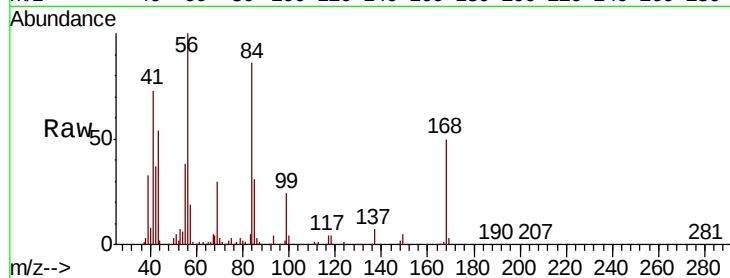
99 48.1 41.6 62.4

Manual Integrations

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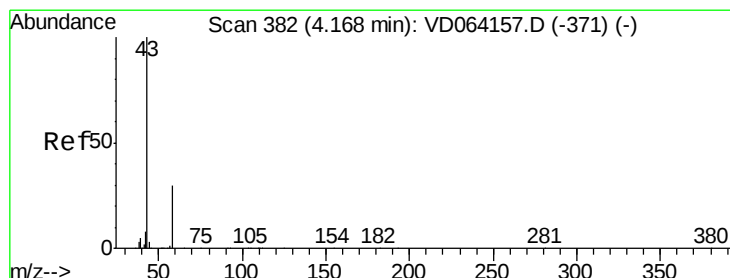
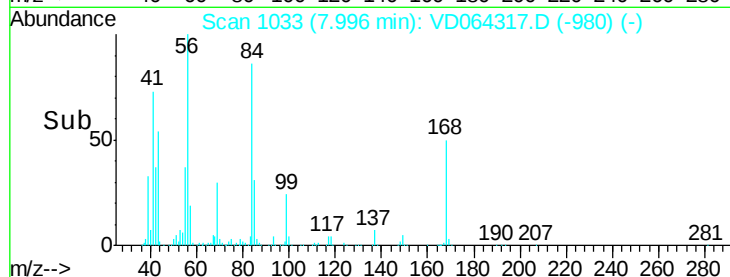
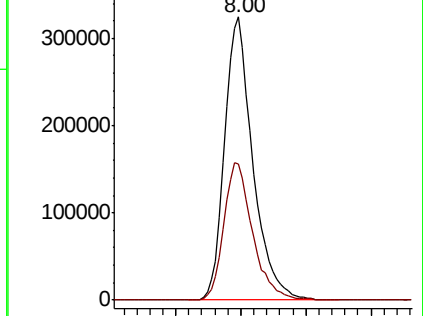
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 23.521 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD064317.D

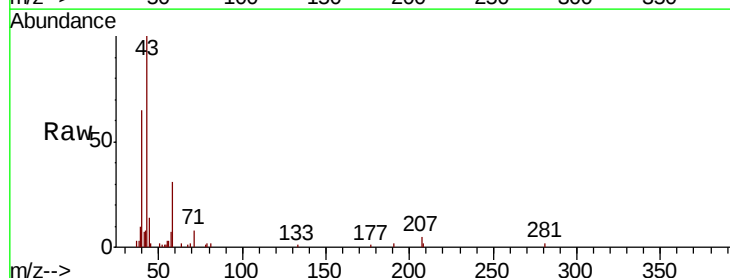
Acq: 20 Nov 2019 17:13

Tgt Ion: 43 Resp: 44653

Ion Ratio Lower Upper

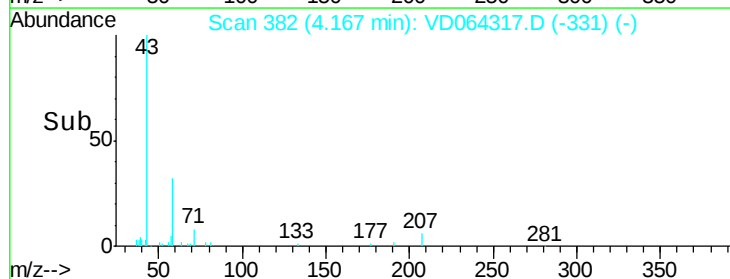
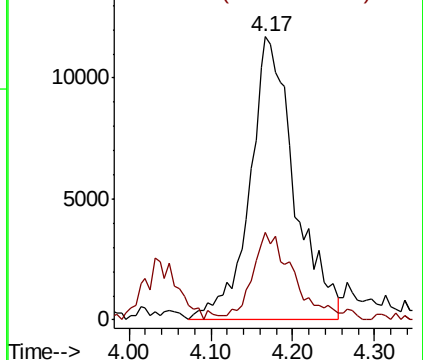
43 100

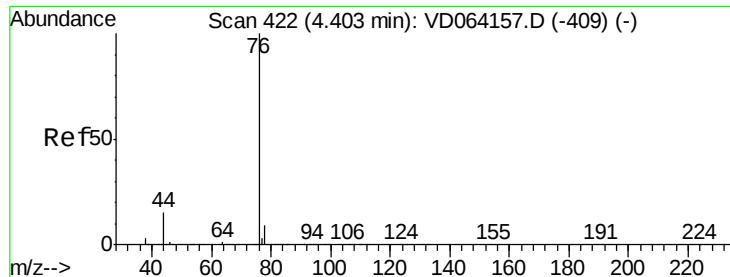
58 28.3 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#17

Carbon Disulfide

Concen: 3.384 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion: 76 Resp: 86283

Ion Ratio Lower Upper

76 100

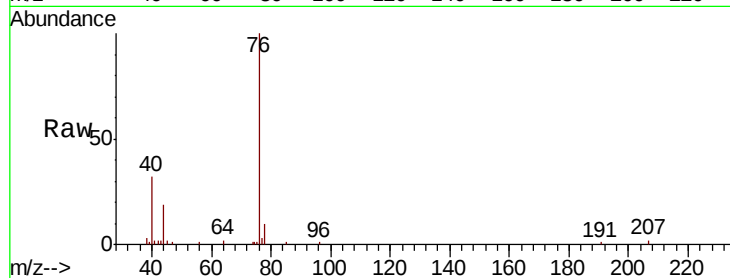
78 9.8 7.2 10.8

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

25000

20000

15000

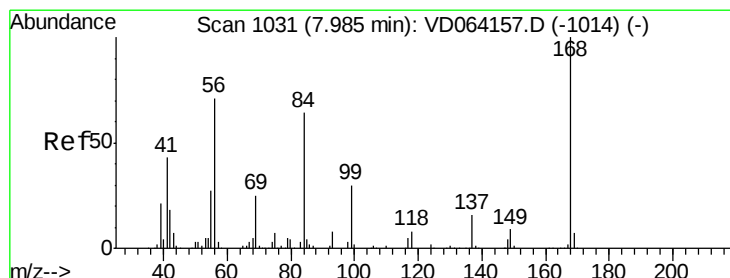
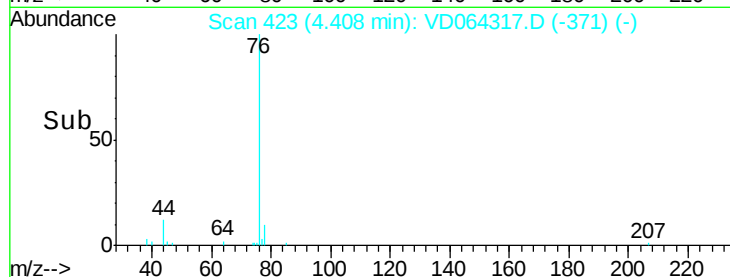
10000

5000

0

4.30 4.40 4.50 4.60

Time-->



#31

Cyclohexane

Concen: 160.955 ug/l

RT: 8.00 min Scan# 1034

Delta R.T. 0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

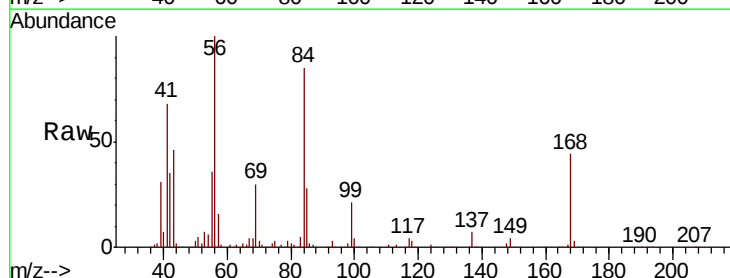
Tgt Ion: 56 Resp: 2531544

Ion Ratio Lower Upper

56 100

69 30.0 28.2 42.4

84 84.6 71.8 107.6



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

800000

600000

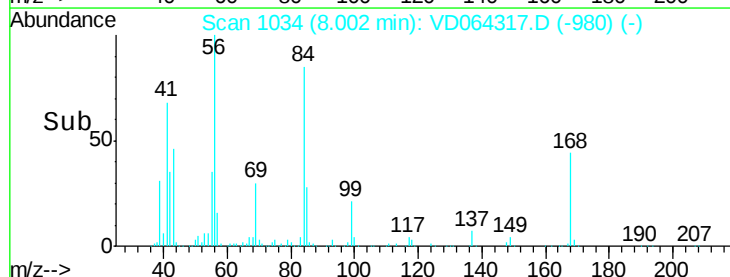
400000

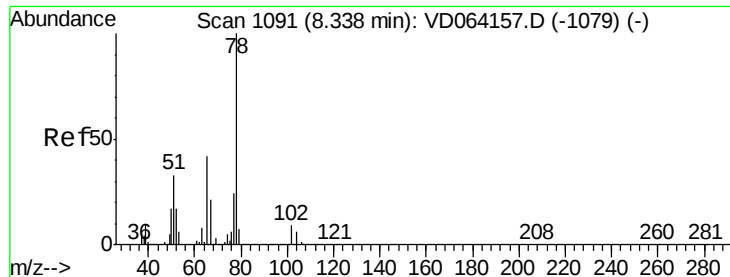
200000

0

7.90 8.00 8.10

Time-->





#33

1,2-Dichloroethane-d4

Concen: 58.983 ug/l

RT: 8.34 min Scan# 1092

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion: 65 Resp: 472665

Ion Ratio Lower Upper

65 100

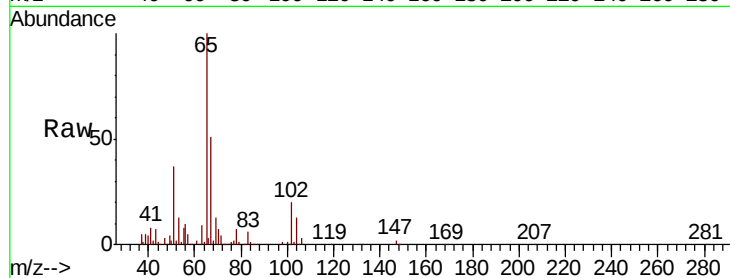
67 51.1 0.0 104.4

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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

200000

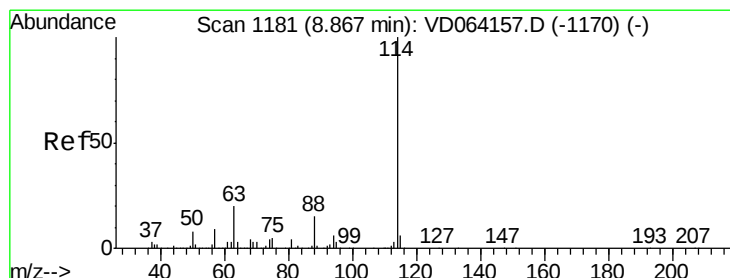
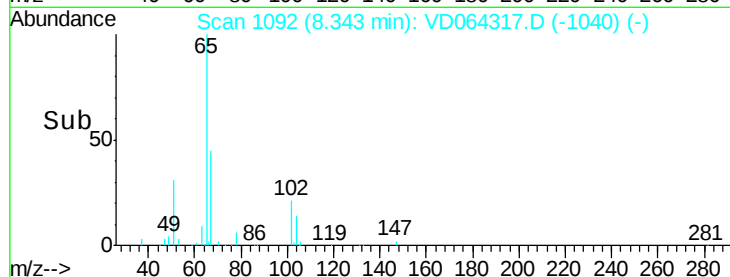
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.88 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

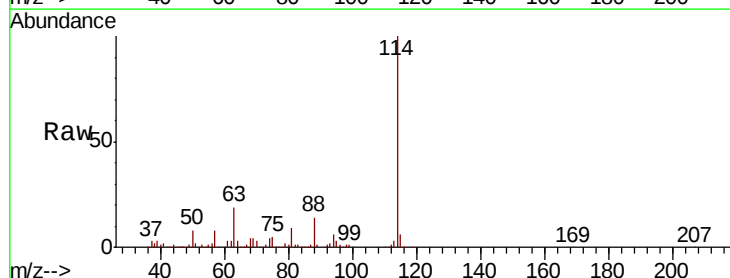
Tgt Ion: 114 Resp: 1497420

Ion Ratio Lower Upper

114 100

63 18.9 0.0 40.0

88 13.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.88

800000

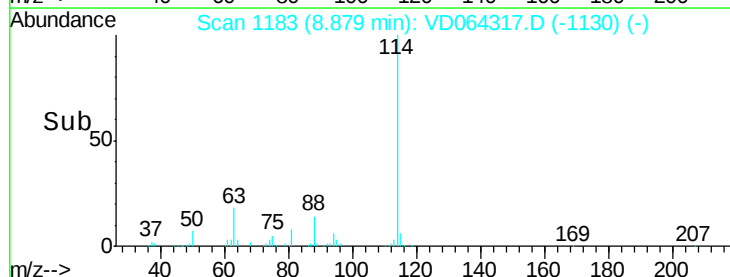
600000

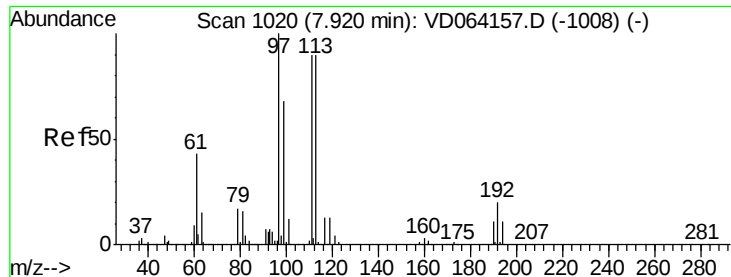
400000

200000

0

Time-->





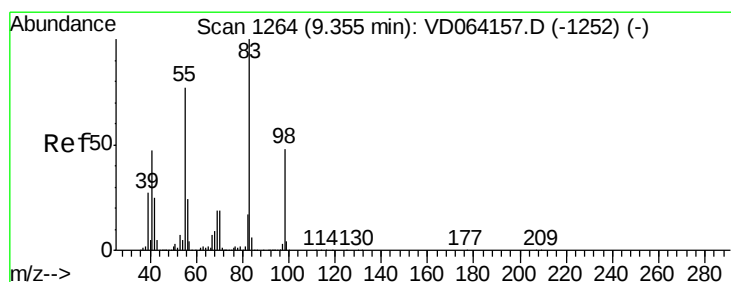
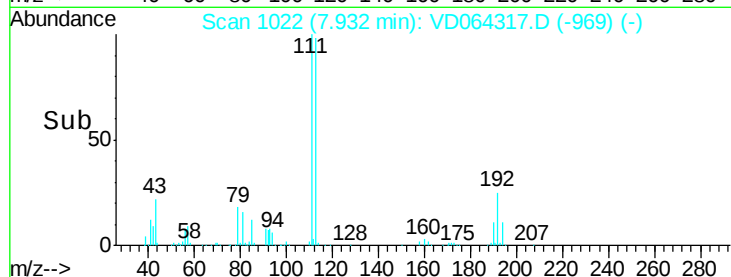
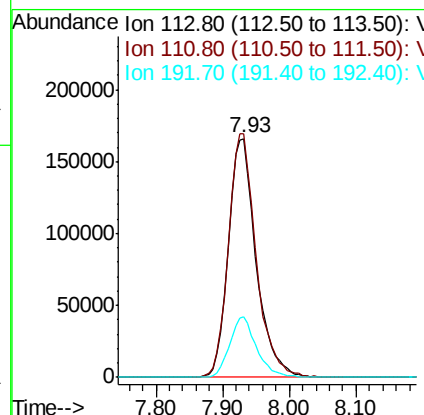
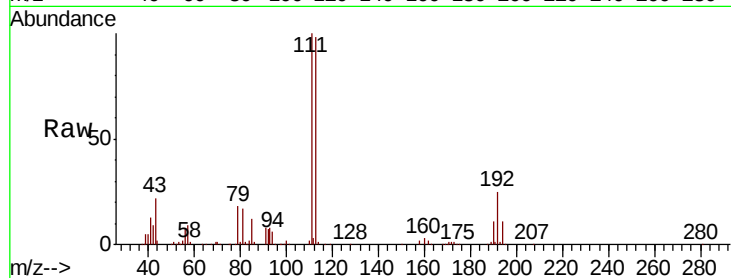
#35
Dibromofluoromethane
Concen: 56.371 ug/l
RT: 7.93 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampleId :
MW-2-(20-22)

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.5	122.3
192	24.6	18.8	28.2

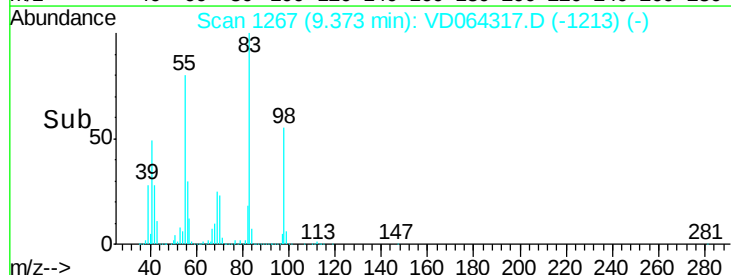
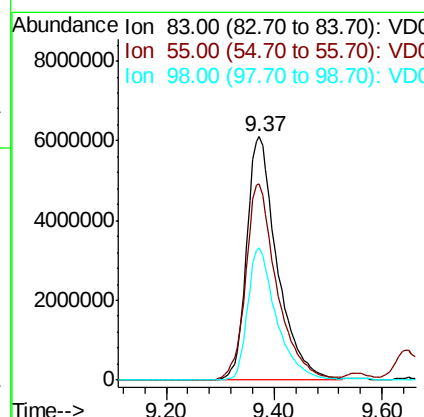
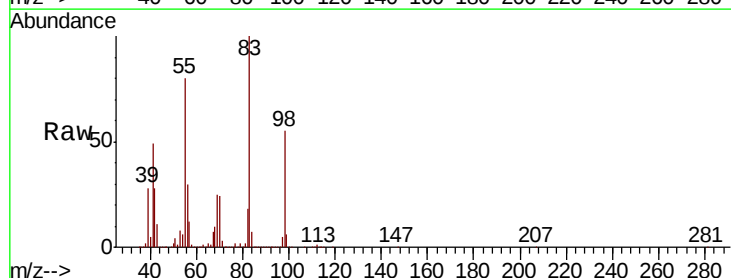
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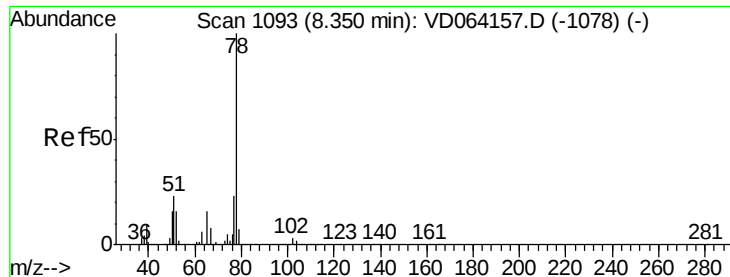
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#39
Methylcyclohexane
Concen: 1357.821 ug/l
RT: 9.37 min Scan# 1267
Delta R.T. 0.02 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion	Ratio	Lower	Upper
83	100		
55	80.4	61.7	92.5
98	54.5	38.6	58.0





#40

Benzene

Concen: 1.920 ug/l

RT: 8.37 min Scan# 1096

Delta R.T. 0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion: 78 Resp: 72505

Ion Ratio Lower Upper

78 100

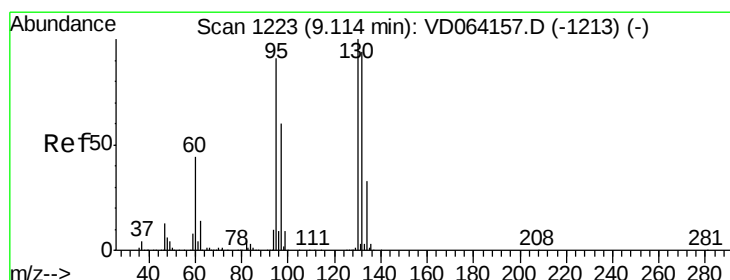
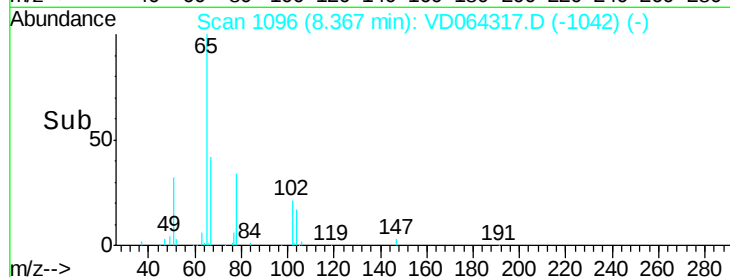
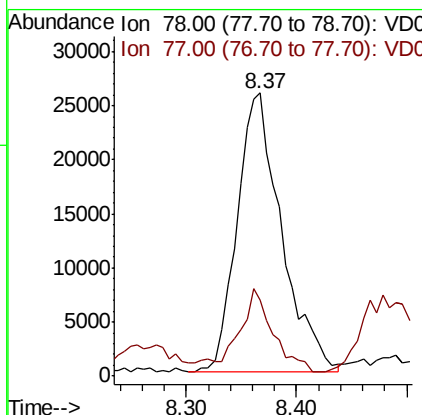
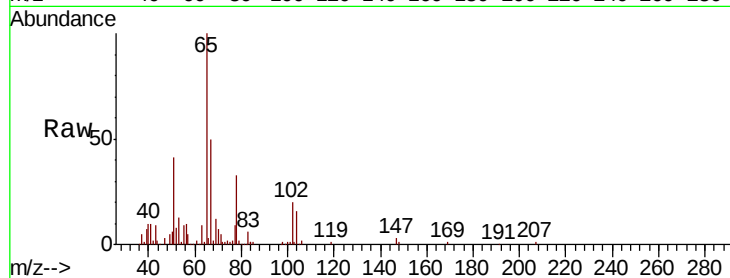
77 23.9 18.6 28.0

Manual Integrations

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#44

Trichloroethene

Concen: 9.514 ug/l

RT: 9.13 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD064317.D

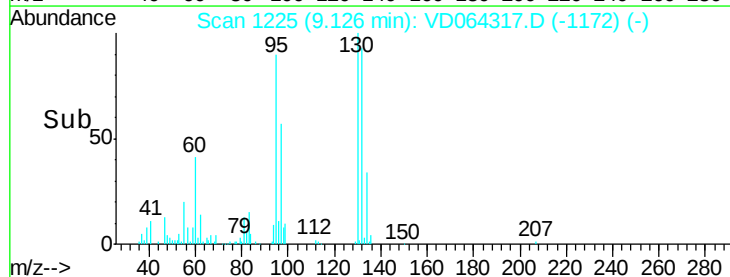
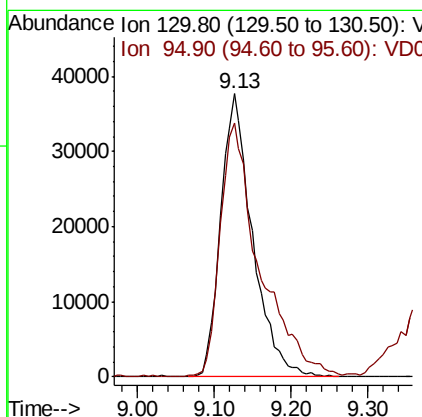
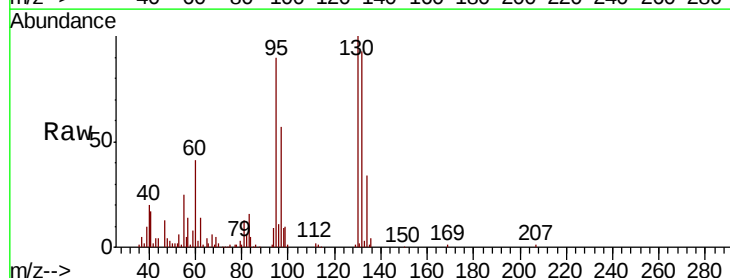
Acq: 20 Nov 2019 17:13

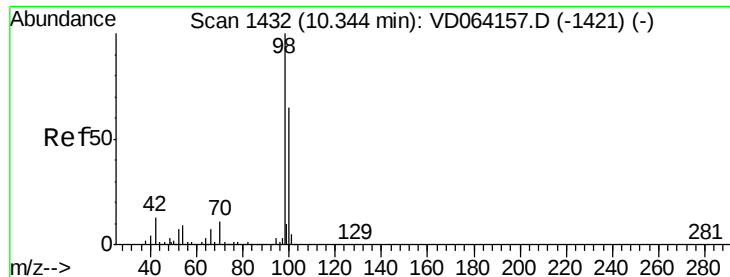
Tgt Ion: 130 Resp: 107846

Ion Ratio Lower Upper

130 100

95 89.3 0.0 181.6





#50

Toluene-d8

Concen: 153.225 ug/l

RT: 10.36 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion: 98 Resp: 4968431

Ion Ratio Lower Upper

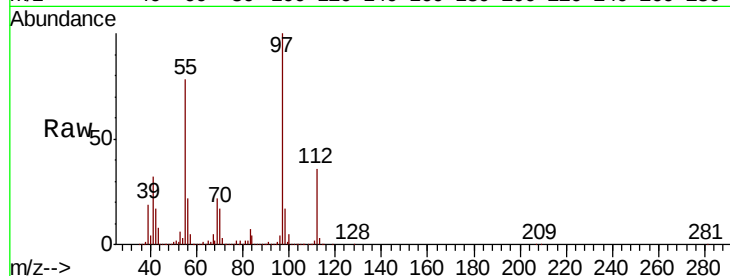
98 100

100 19.3 52.6 78.8#

Manual Integrations
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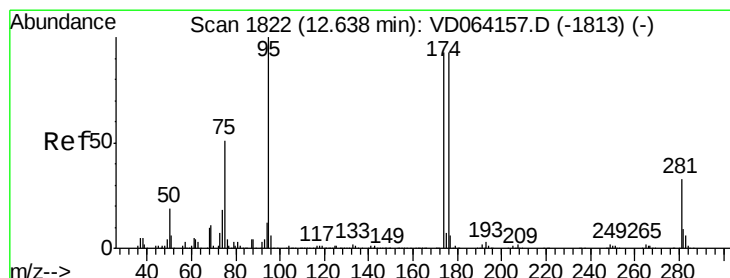
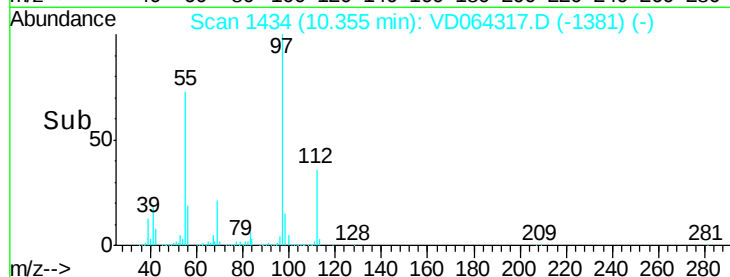
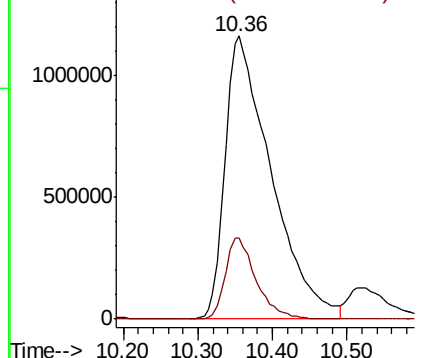
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Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 3852.229 ug/l m

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

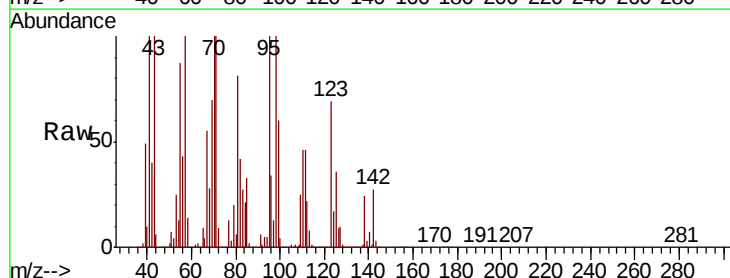
Tgt Ion: 95 Resp: 43257540

Ion Ratio Lower Upper

95 100

174 0.0 0.0 183.6

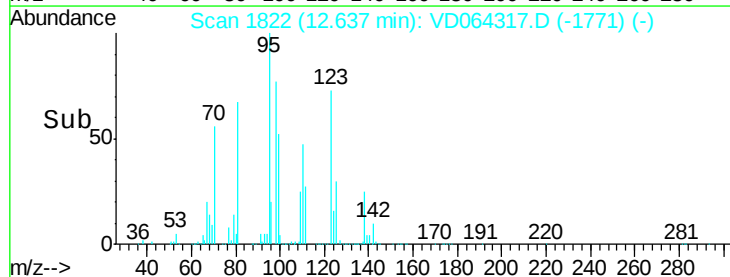
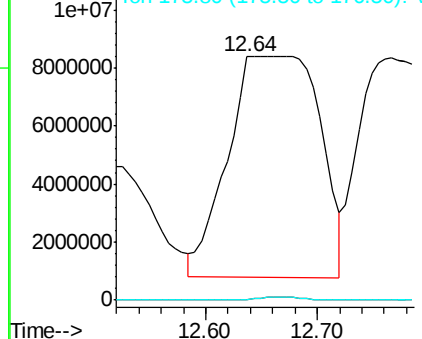
176 0.0 0.0 180.2

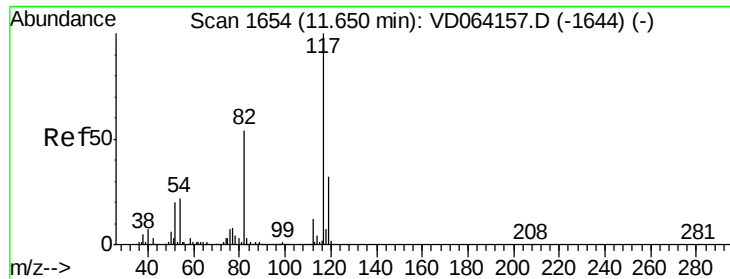


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC





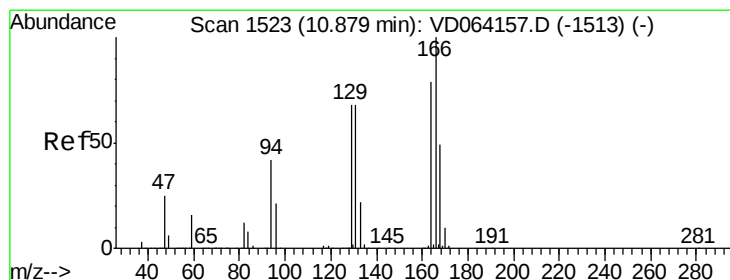
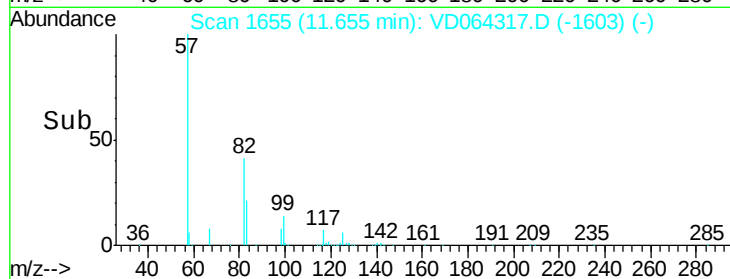
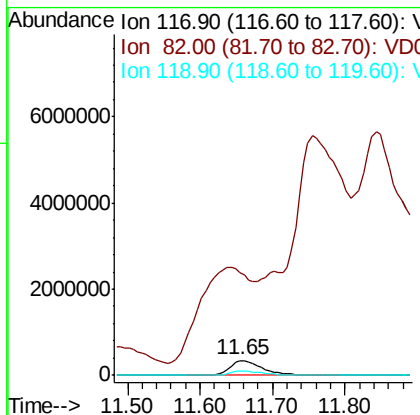
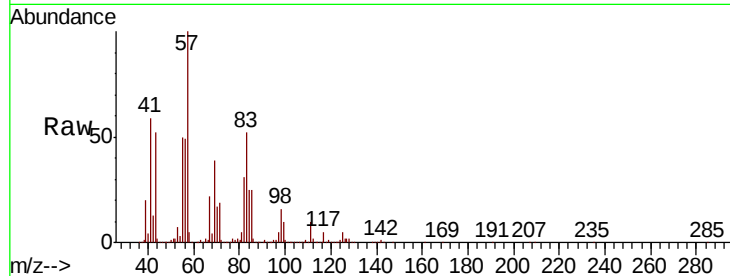
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampleId :
MW-2-(20-22)

Tot Ion:117 Resp: 1068688
Ion Ratio Lower Upper
117 100
82 395.5 42.8 64.2#
119 32.3 25.6 38.4

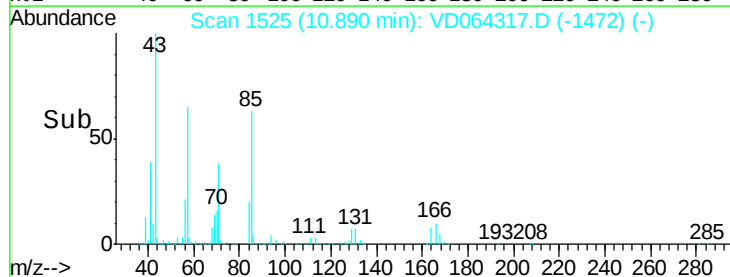
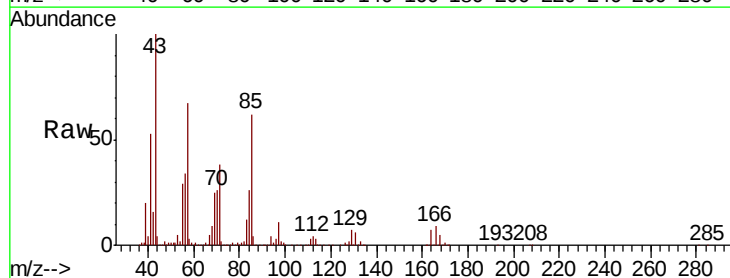
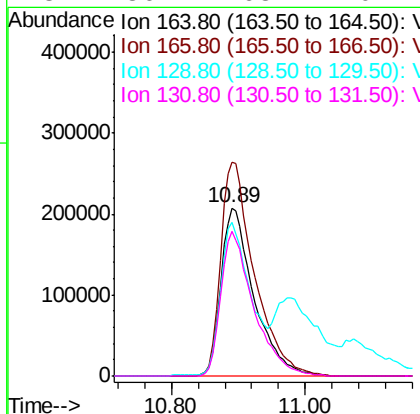
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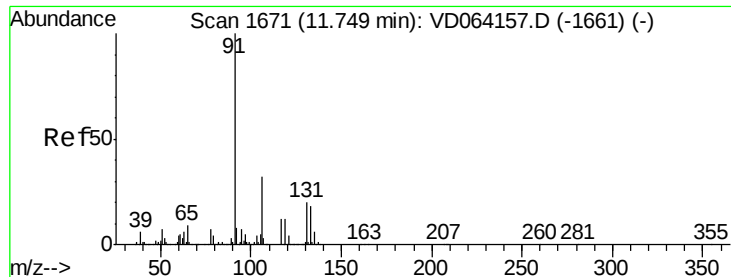
MMDadoda
11/22/2019 12:52:20 AM



#64
Tetrachloroethene
Concen: 87.349 ug/l
RT: 10.89 min Scan# 1525
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion:164 Resp: 717935
Ion Ratio Lower Upper
164 100
166 126.9 100.8 151.2
129 90.6 68.7 103.1
131 86.1 68.1 102.1





#67

Ethyl Benzene

Concen: 1129.150 ug/l m

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion: 91 Resp:44386003

Ion Ratio Lower Upper

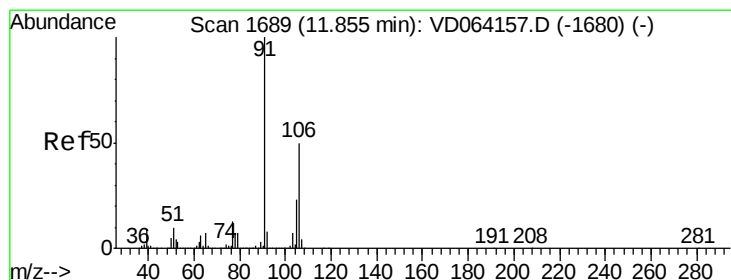
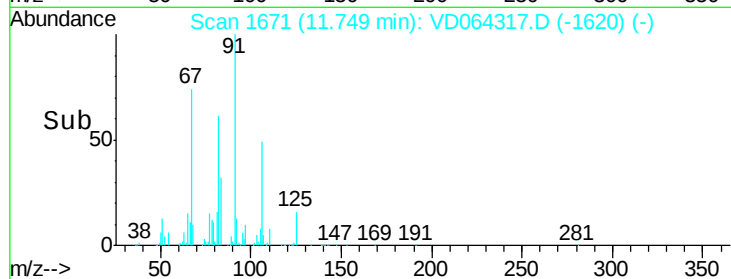
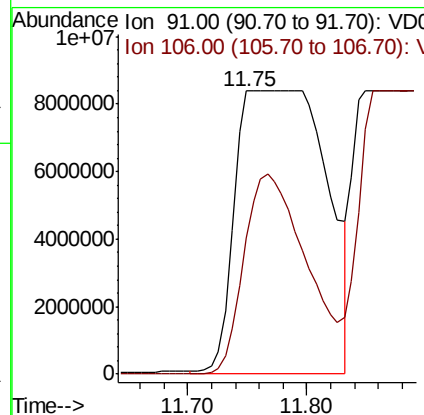
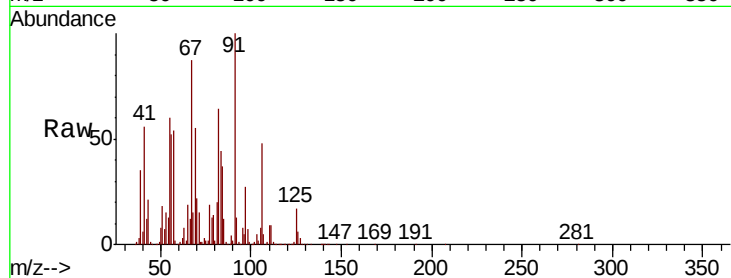
91 100

106 48.3 25.5 38.3#

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#68

m/p-Xylenes

Concen: 3251.779 ug/l m

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064317.D

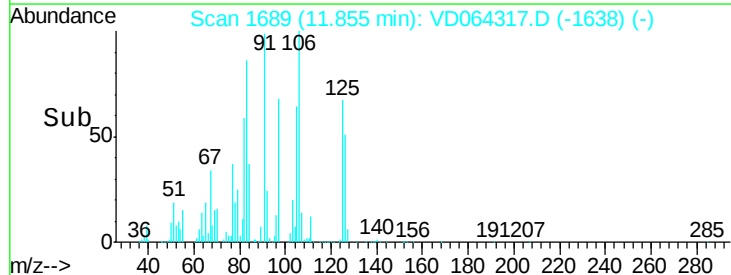
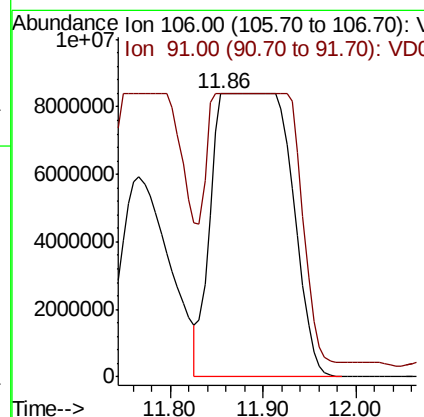
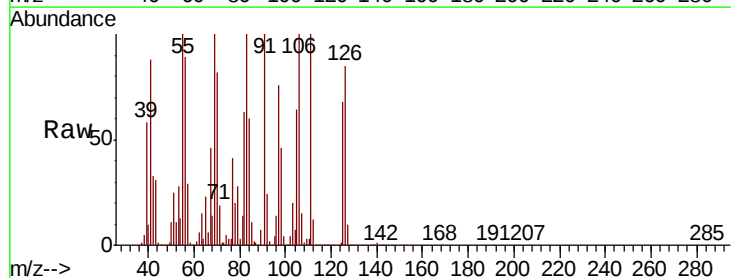
Acq: 20 Nov 2019 17:13

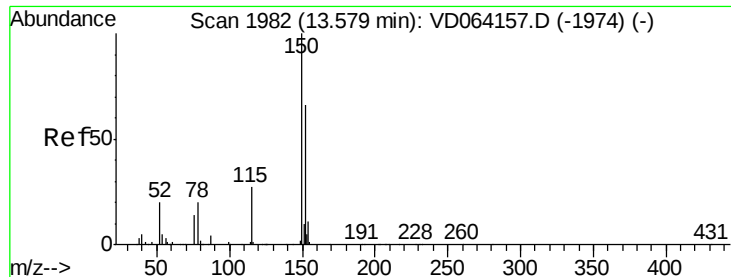
Tgt Ion:106 Resp:48995469

Ion Ratio Lower Upper

106 100

91 3.5 160.3 240.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion:152 Resp: 2566338

Ion Ratio Lower Upper

152 100

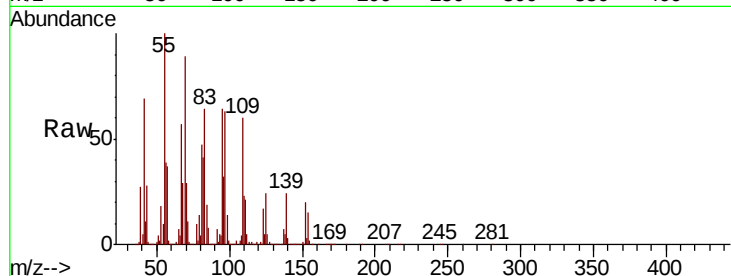
115 0.0 27.4 82.2#

150 7.2 0.0 351.6

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Abundance Ion 151.90 (151.60 to 152.60): V

5000000 Ion 114.90 (114.60 to 115.60): V

4000000 Ion 149.90 (149.60 to 150.60): V

3000000

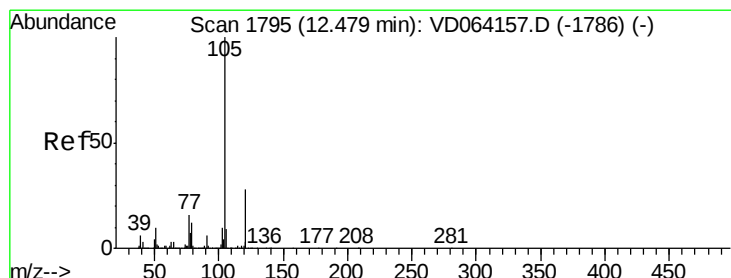
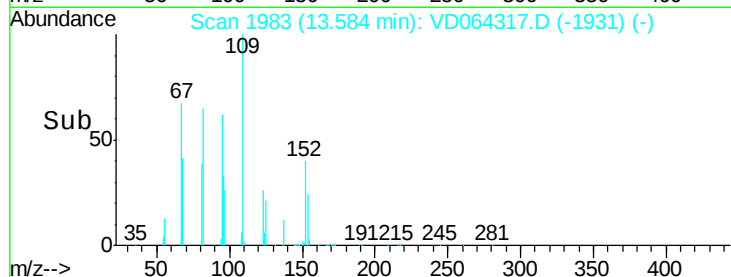
2000000

1000000

0

13.50 13.55 13.60 13.65 13.70

Time-->



#73

Isopropylbenzene

Concen: 212.061 ug/l m

RT: 12.50 min Scan# 1799

Delta R.T. 0.02 min

Lab File: VD064317.D

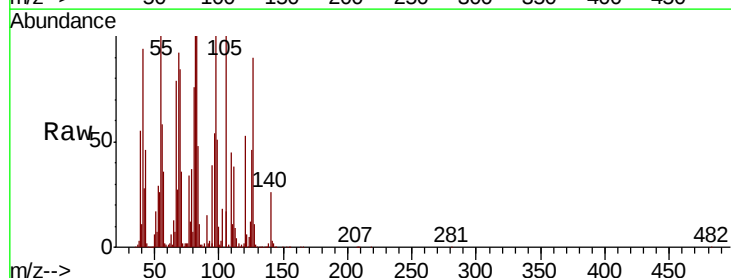
Acq: 20 Nov 2019 17:13

Tgt Ion:105 Resp:39945669

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.8#



Abundance Ion 105.00 (104.70 to 105.70): V

1e+07 Ion 120.00 (119.70 to 120.70): V

8000000

6000000

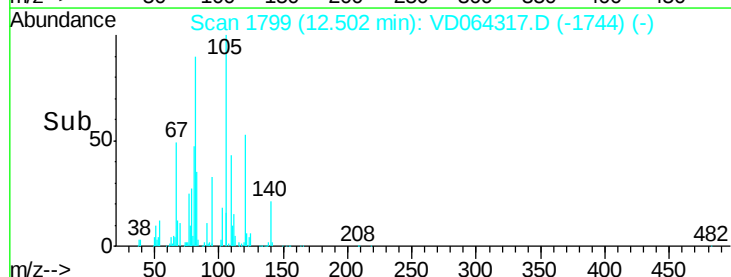
4000000

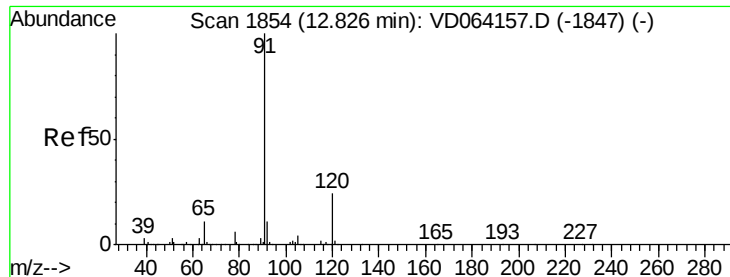
2000000

0

12.40 12.45 12.50 12.55 12.60

Time-->





#78

n-propylbenzene

Concen: 208.487 ug/l m

RT: 12.83 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion: 91 Resp:44869279

Ion Ratio Lower Upper

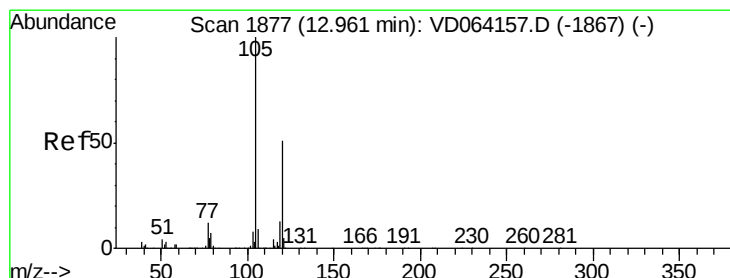
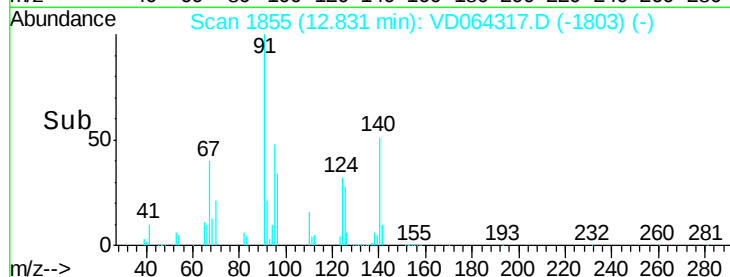
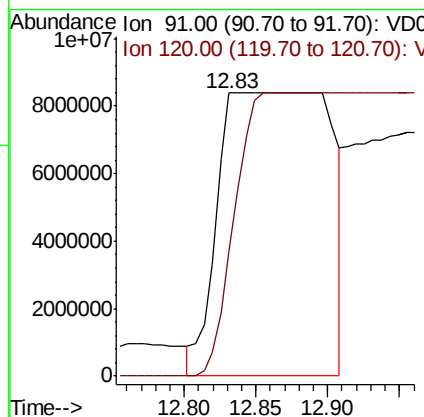
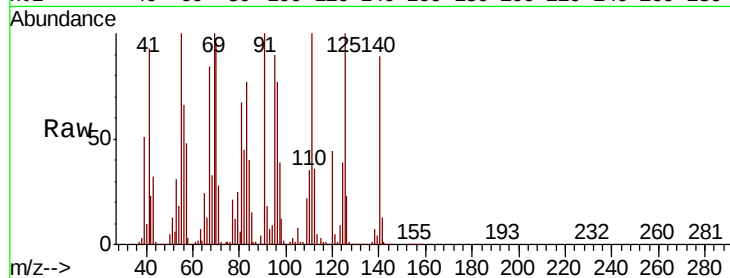
91 100

120 0.0 11.8 35.4#

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#80

1,3,5-Trimethylbenzene

Concen: 376.558 ug/l m

RT: 12.93 min Scan# 1871

Delta R.T. -0.04 min

Lab File: VD064317.D

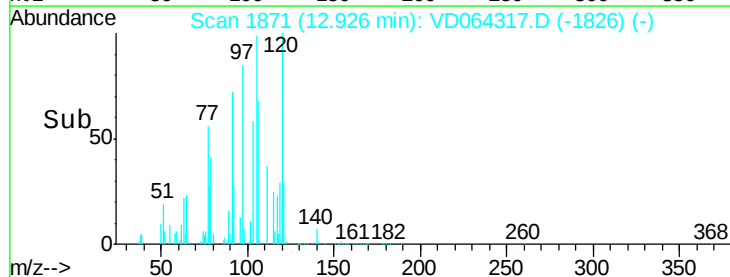
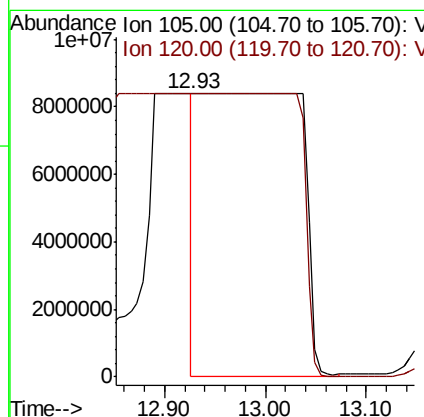
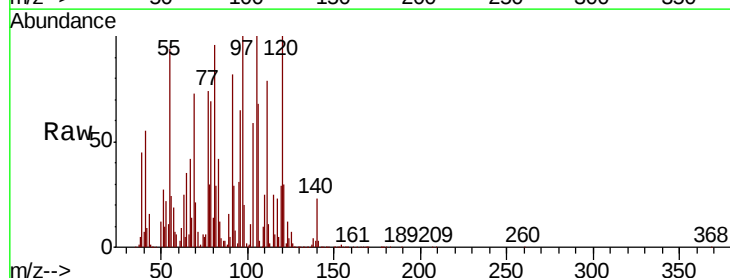
Acq: 20 Nov 2019 17:13

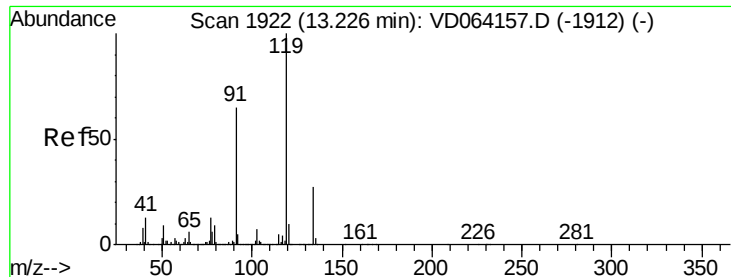
Tgt Ion:105 Resp:58284528

Ion Ratio Lower Upper

105 100

120 0.9 25.4 76.4#





#83

tert-Butylbenzene

Concen: 67.298 ug/l m

RT: 13.27 min Scan# 1929

Delta R.T. 0.04 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion:119 Resp: 9185111

Ion Ratio Lower Upper

119 100

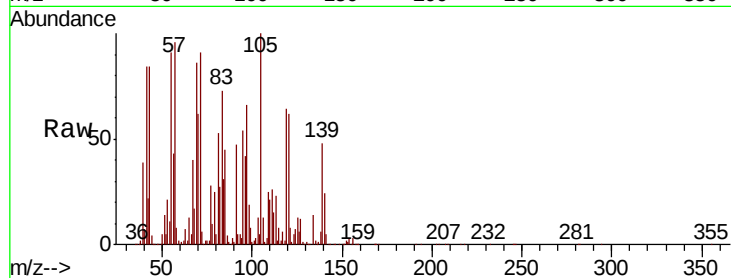
91 388.4 31.8 95.4#

134 0.0 13.7 41.0#

Manual Integrations
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

1e+07

8000000

6000000

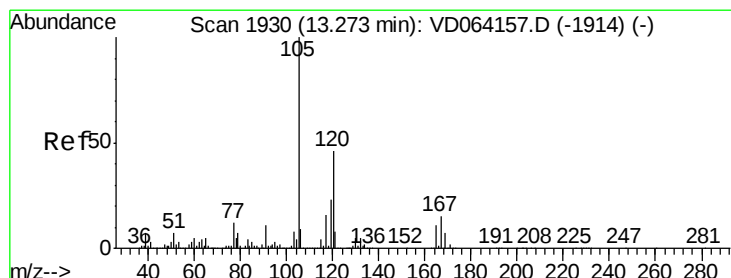
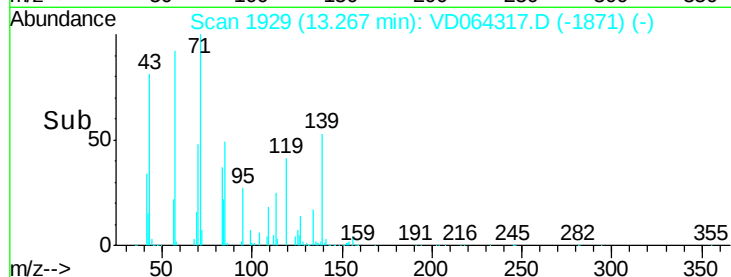
4000000

2000000

0

13.20 13.25

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 293.833 ug/l m

RT: 13.27 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VD064317.D

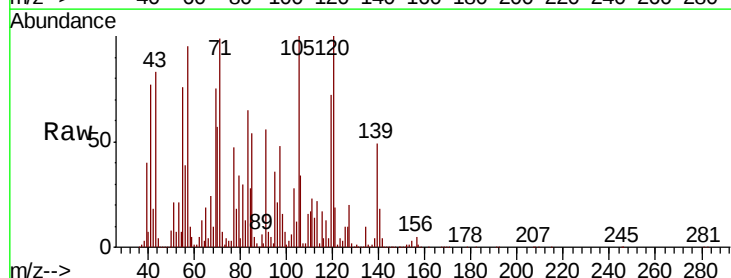
Acq: 20 Nov 2019 17:13

Tgt Ion:105 Resp:44900843

Ion Ratio Lower Upper

105 100

120 1.2 23.3 69.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1e+07

8000000

6000000

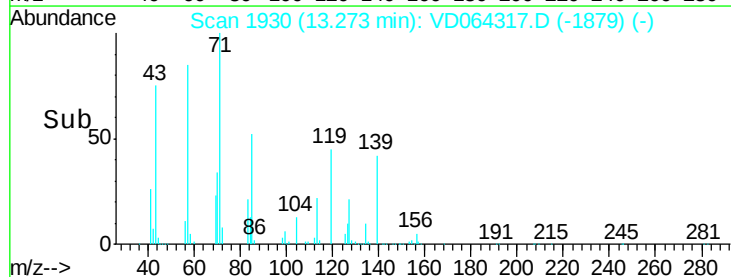
4000000

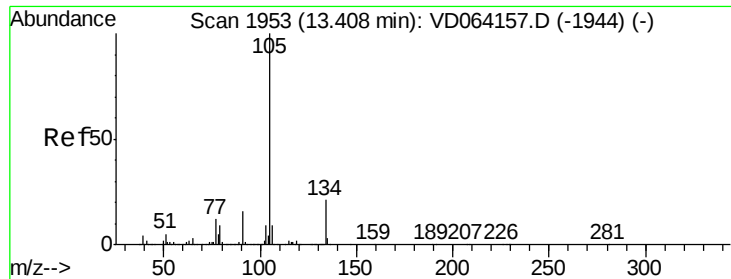
2000000

0

13.20 13.30 13.40

Time-->





#85

sec-Butylbenzene

Concen: 137.977 ug/l m

RT: 13.41 min Scan# 1954

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

MW-2-(20-22)

Tot Ion:105 Resp:25292647

Ion Ratio Lower Upper

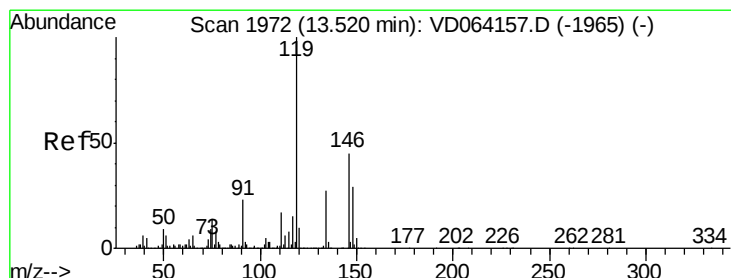
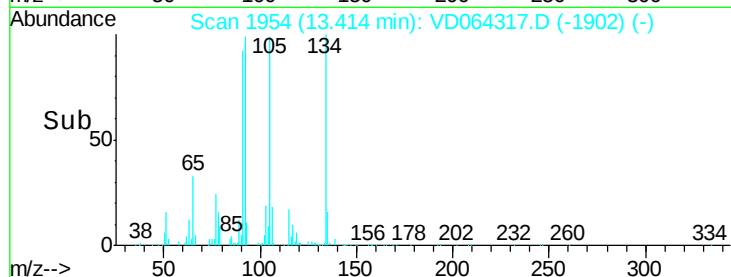
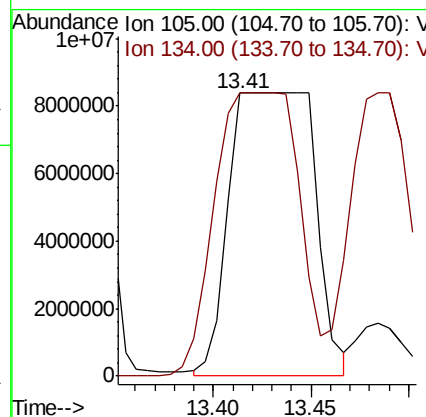
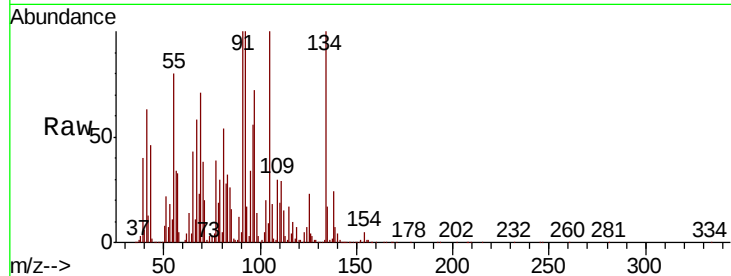
105 100

134 69.7 10.7 31.9#

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 133.357 ug/l m

RT: 13.53 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

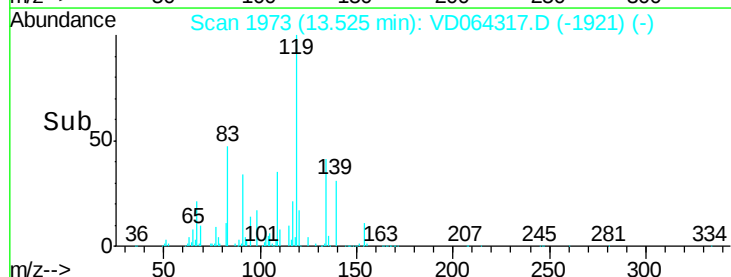
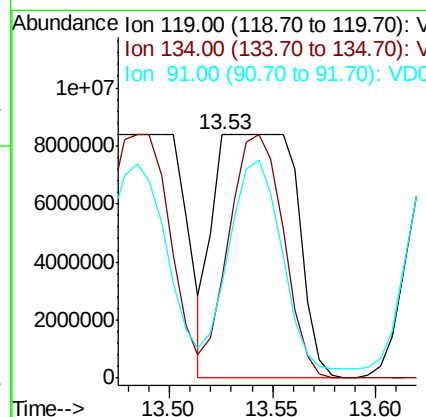
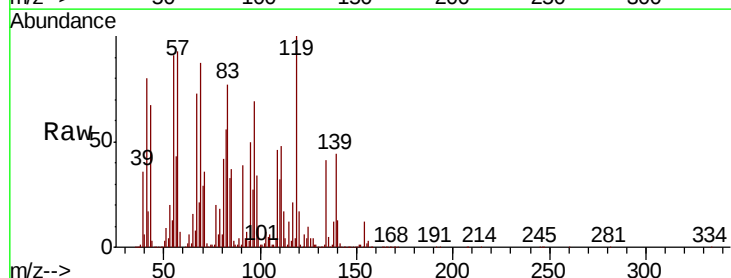
Tgt Ion:119 Resp:23240522

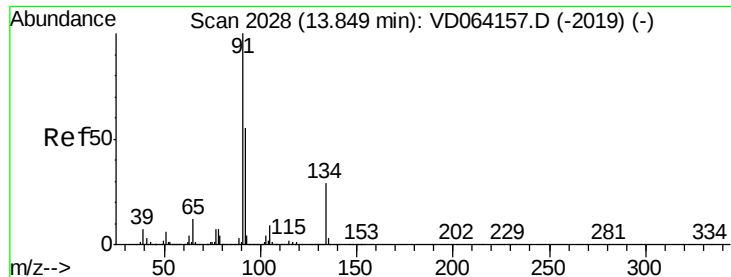
Ion Ratio Lower Upper

119 100

134 16.1 13.5 40.5

91 11.1 11.5 34.4#





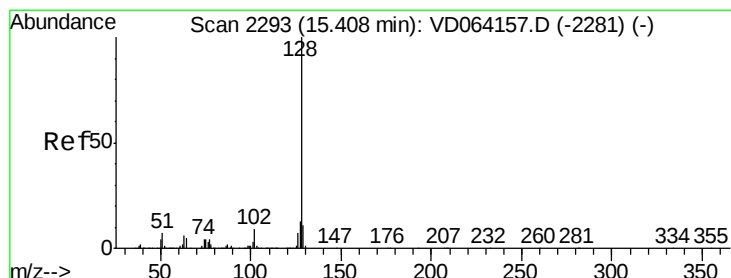
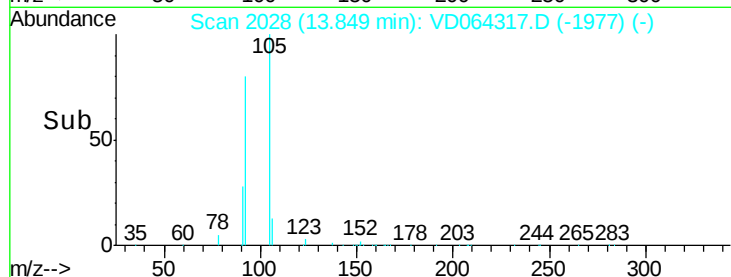
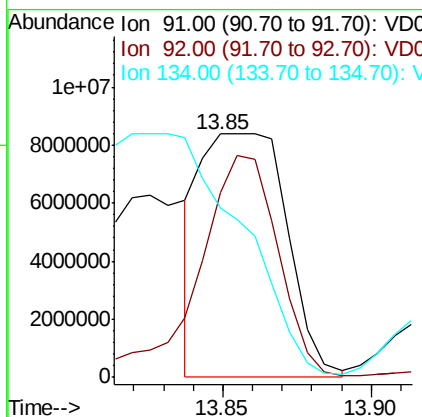
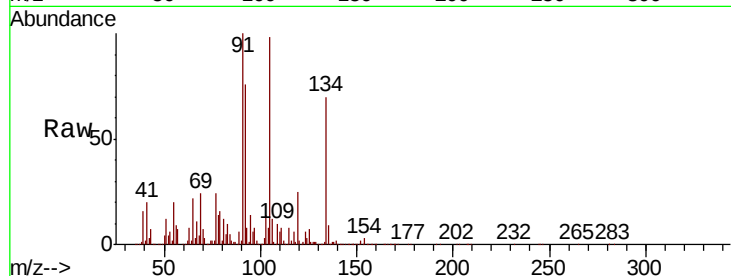
#89
n-Butylbenzene
Concen: 107.902 ug/l m
RT: 13.85 min Scan# 2028
Delta R.T. -0.00 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampleId :
MW-2-(20-22)

Tot Ion: 91 Resp:16988732
Ion Ratio Lower Upper
91 100
92 81.4 27.3 81.8
134 0.0 14.1 42.4#

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#95
Naphthalene
Concen: 22.650 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion:128 Resp: 2059395
Ion Ratio Lower Upper
128 100
127 13.2 10.5 15.7
129 11.1 8.6 13.0

