

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112019\
 Data File : VD064318.D
 Acq On : 20 Nov 2019 17:40
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 12:52:21 AM

Quant Time: Nov 21 07:28:48 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	7.98	168	867533	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1236323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	1071264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	543740	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	355188	49.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.56%	
35) Dibromofluoromethane	7.92	113	359647	50.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.36%	
50) Toluene-d8	10.34	98	1355375	50.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.26%	
62) 4-Bromofluorobenzene	12.64	95	543088	58.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.16%	
Target Compounds						
					Qvalue	
39) Methylcyclohexane	9.36	83	198183	13.726	ug/l	96
64) Tetrachloroethene	10.88	164	8587	1.042	ug/l #	75
67) Ethyl Benzene	11.75	91	230534	5.851	ug/l	99
68) m/p-Xylenes	11.86	106	435272	28.819	ug/l	100
73) Isopropylbenzene	12.48	105	594469	14.895	ug/l	99
78) n-propylbenzene	12.83	91	1398977	30.681	ug/l	98
80) 1,3,5-Trimethylbenzene	12.97	105	1964877	59.915	ug/l	99
83) tert-Butylbenzene	13.23	119	83126	2.875	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	5893989	182.045	ug/l	98
85) sec-Butylbenzene	13.41	105	496313	12.779	ug/l #	72
86) p-Isopropyltoluene	13.53	119	468789	12.696	ug/l	99
89) n-Butylbenzene	13.85	91	345179m	10.348	ug/l	
95) Naphthalene	15.41	128	757339	39.314	ug/l	100

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

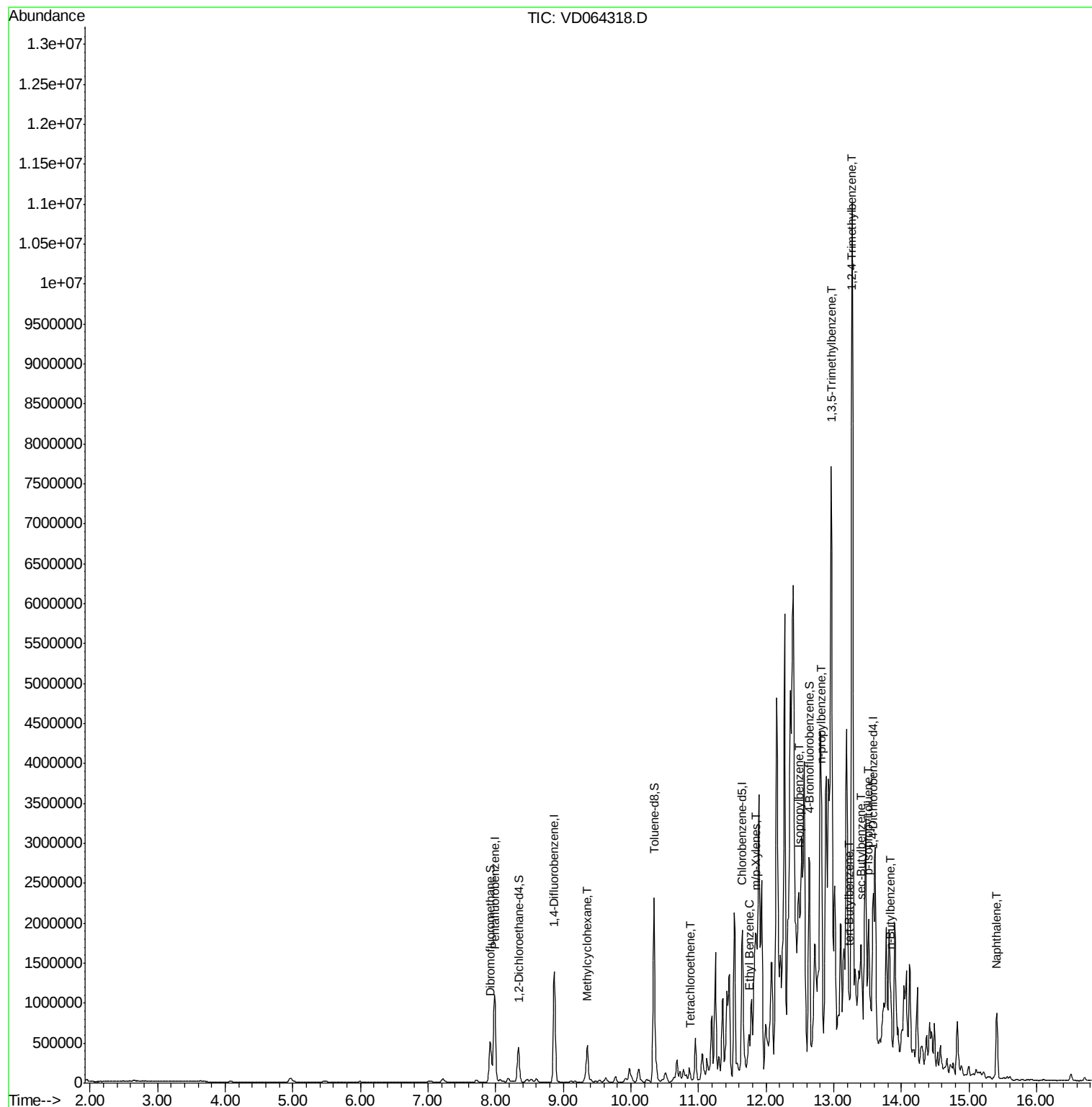
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD112019\
Data File : VD064318.D
Acq On : 20 Nov 2019 17:40
Operator : VA/SY
Sample : VIBLK
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 15 Sample Multiplier: 1

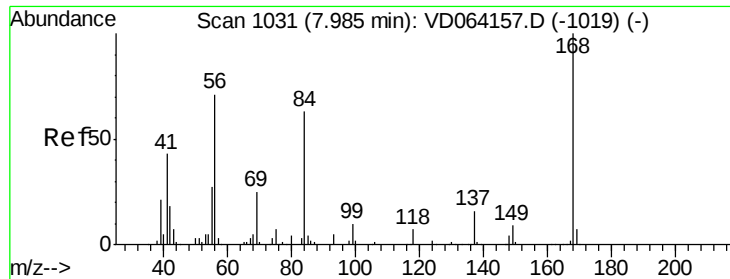
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Manual Integrations
APPROVED

MMDadoda
11/22/2019 12:52:21 AM

Quant Time: Nov 21 07:28:48 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





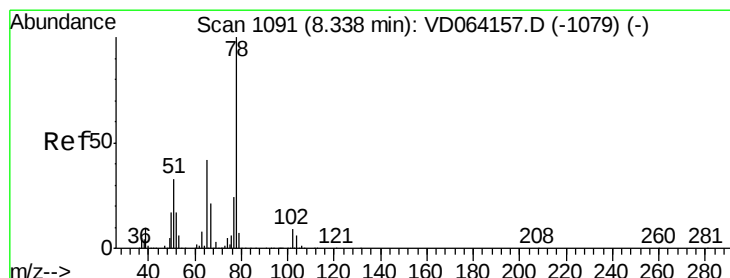
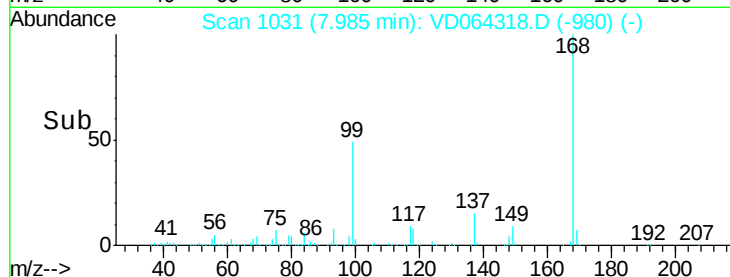
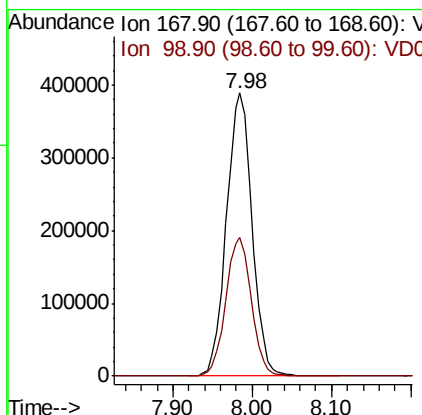
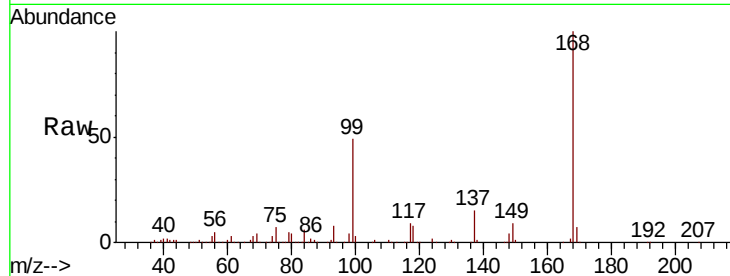
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampleID :
VIBLK

Tot Ion	Ratio	Lower	Upper
168	100		
99	48.8	41.6	62.4

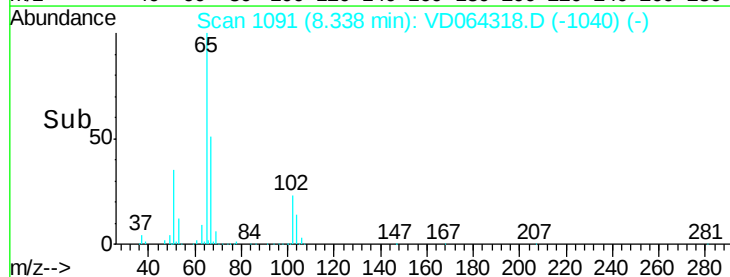
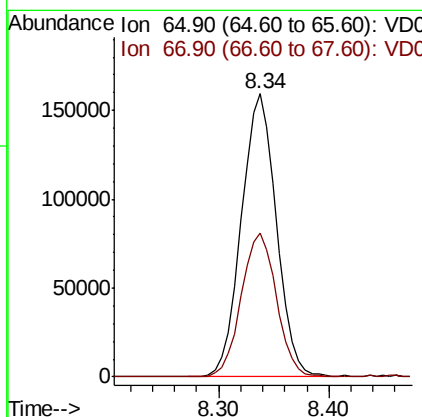
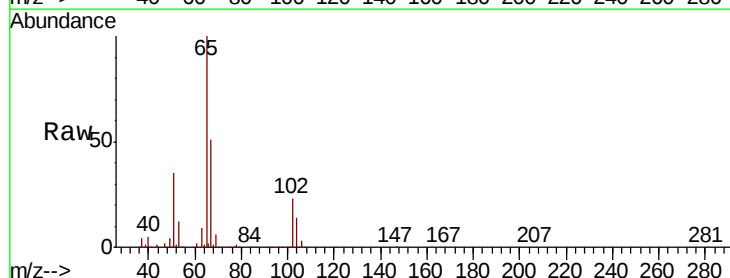
Manual Integrations
APPROVED

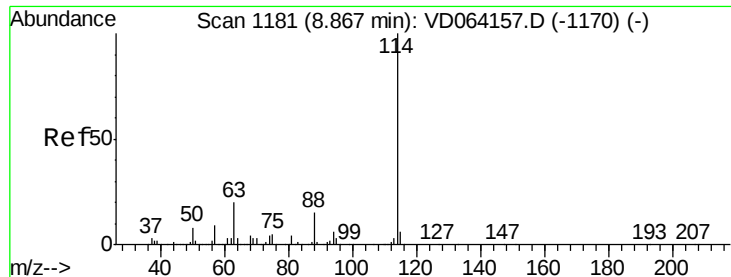
MMDadoda
11/22/2019 12:52:21 AM



#33
1,2-Dichloroethane-d4
Concen: 49.781 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	104.4





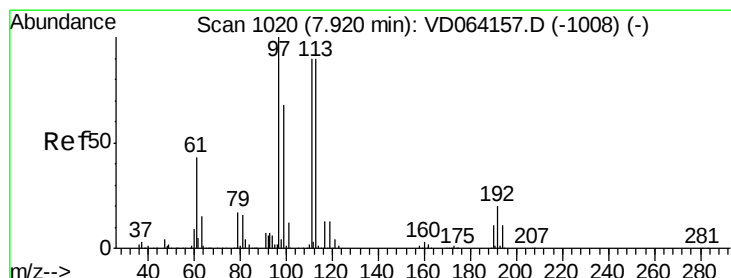
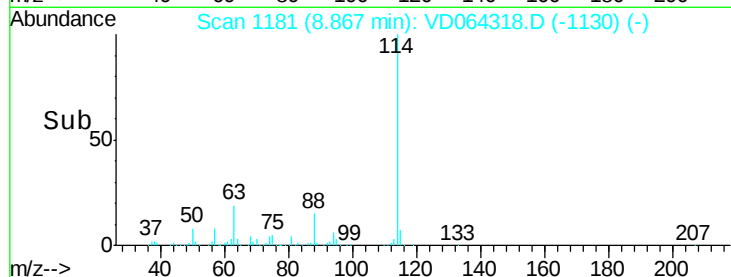
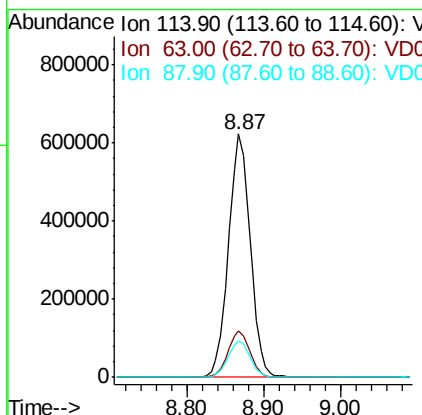
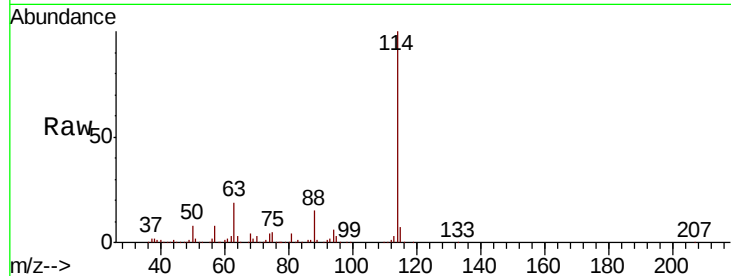
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064318.D
 Acq: 20 Nov 2019 17:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
114	100	1236323		
63	19.3		0.0	40.0
88	15.1		0.0	30.2

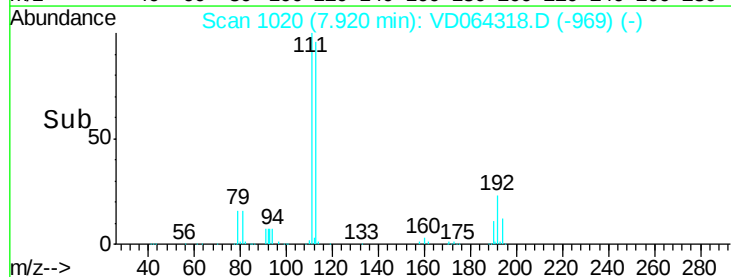
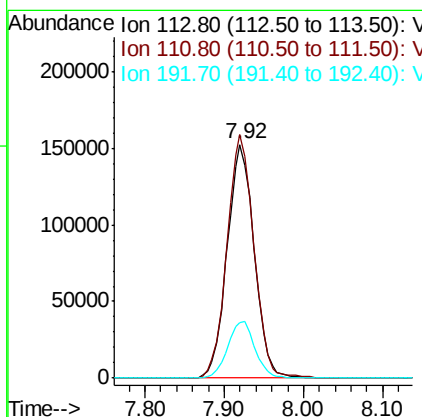
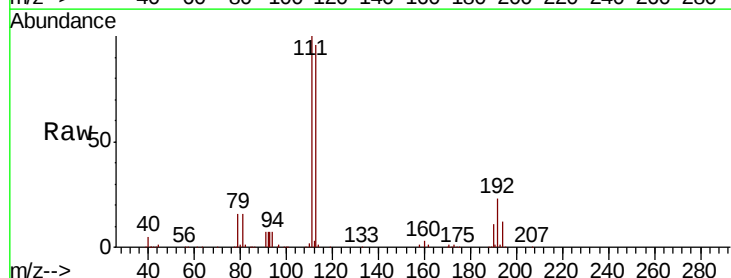
Manual Integrations
 APPROVED

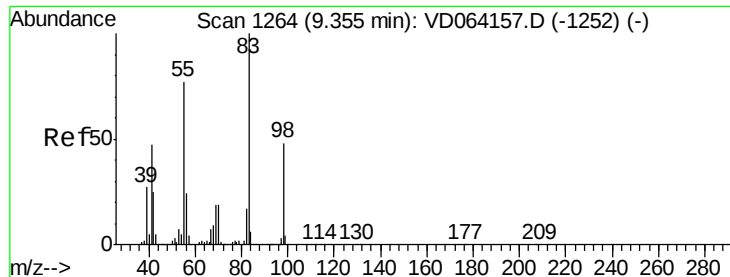
MMDadoda
 11/22/2019 12:52:21 AM



#35
 Dibromofluoromethane
 Concen: 50.678 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064318.D
 Acq: 20 Nov 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	359647		
111	103.8		81.5	122.3
192	24.3		18.8	28.2





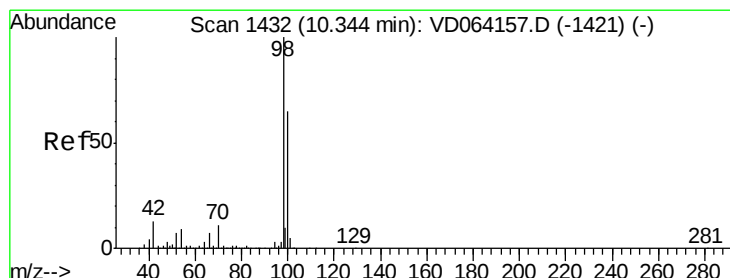
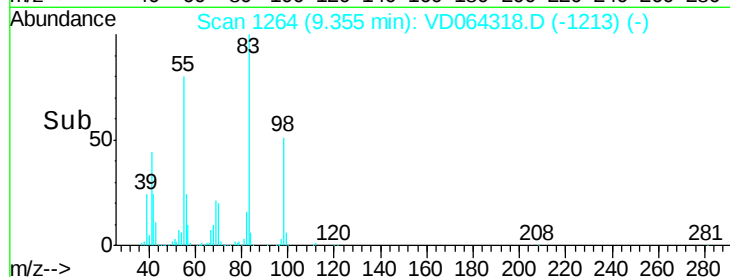
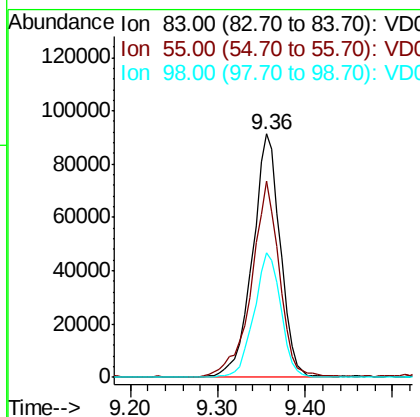
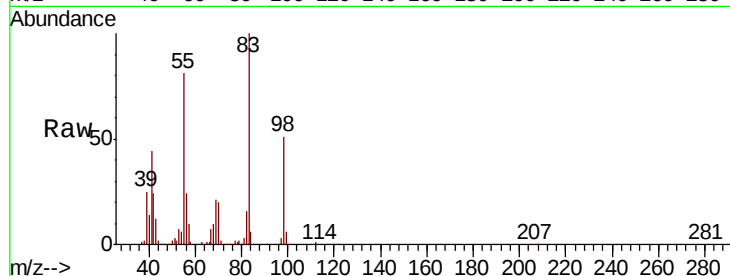
#39
Methylcyclohexane
Concen: 13.726 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tot Ion	83	Resp	198183
Ion Ratio	100	Lower	Upper
83	100		
55	80.5	61.7	92.5
98	51.0	38.6	58.0

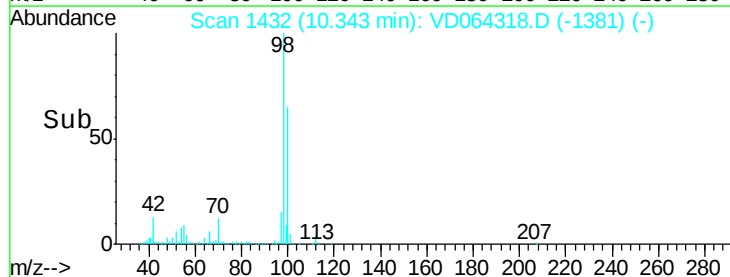
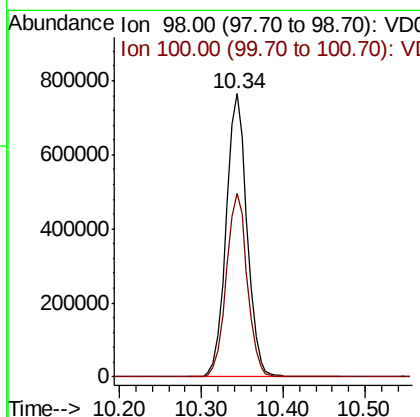
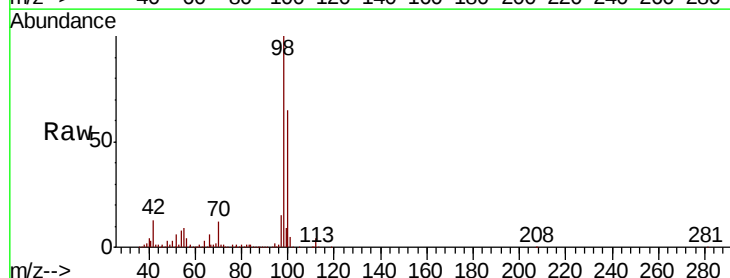
Manual Integrations
APPROVED

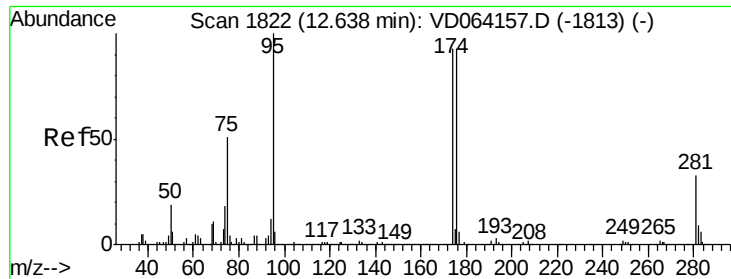
MMDadoda
11/22/2019 12:52:21 AM



#50
Toluene-d8
Concen: 50.627 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Tgt Ion	98	Resp	1355375
Ion Ratio	100	Lower	Upper
98	100		
100	65.2	52.6	78.8





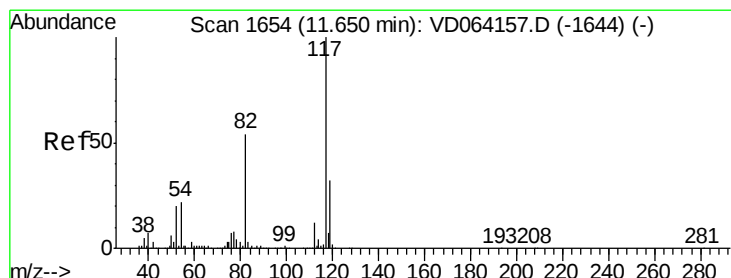
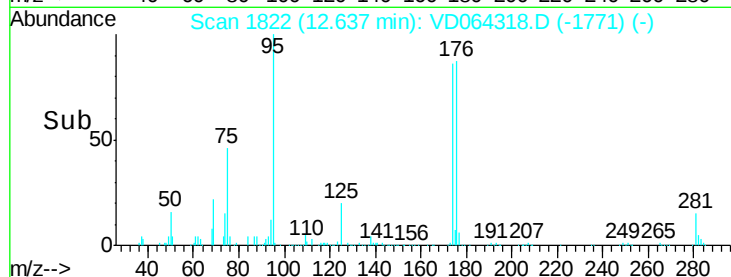
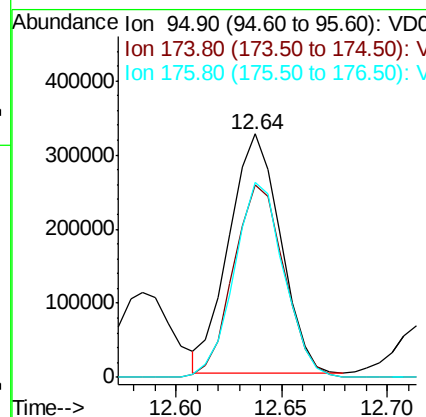
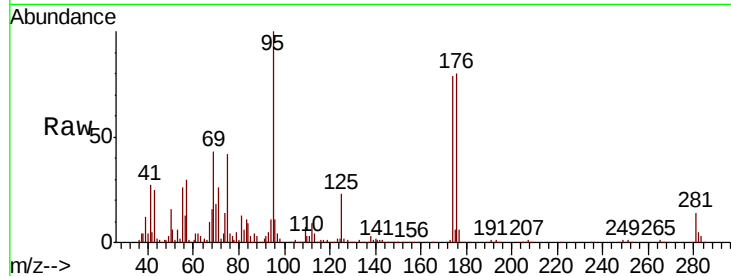
#62
4-Bromofluorobenzene
Concen: 58.578 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tot Ion	Ratio	Resp	Lower	Upper
95	100	543088		
174	80.2	0.0	183.6	
176	78.8	0.0	180.2	

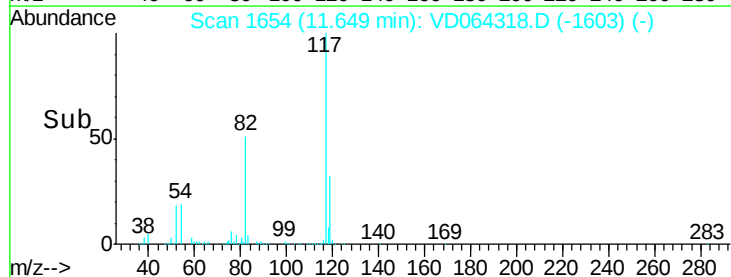
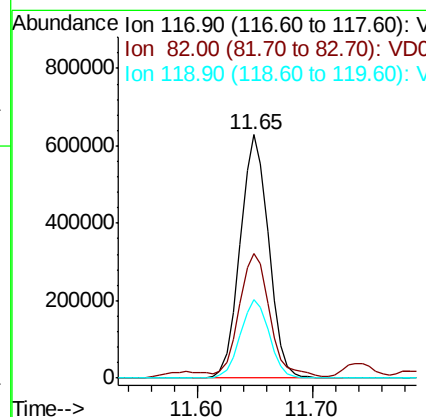
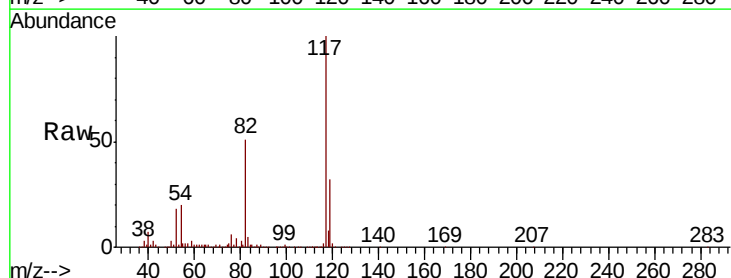
Manual Integrations
APPROVED

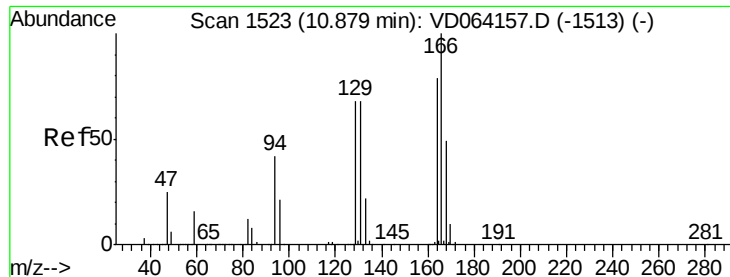
MMDadoda
11/22/2019 12:52:21 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1071264		
82	48.9	42.8	64.2	
119	32.2	25.6	38.4	





#64

Tetrachloroethene

Concen: 1.042 ug/l

RT: 10.88 min Scan# 1524

Delta R.T. 0.01 min

Lab File: VD064318.D

Acq: 20 Nov 2019 17:40

Instrument :

MSVOA_D

ClientSampled :

VIBLK

Tot Ion:164 Resp: 8587

Ion Ratio Lower Upper

164 100

166 86.1 100.8 151.2#

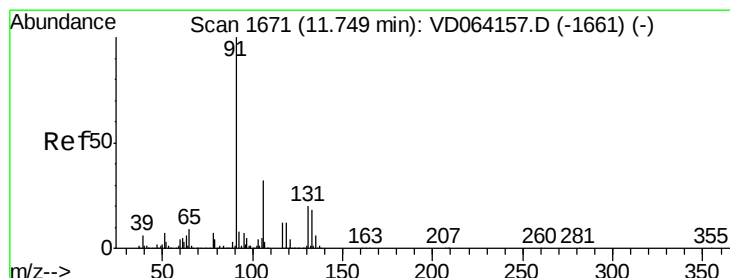
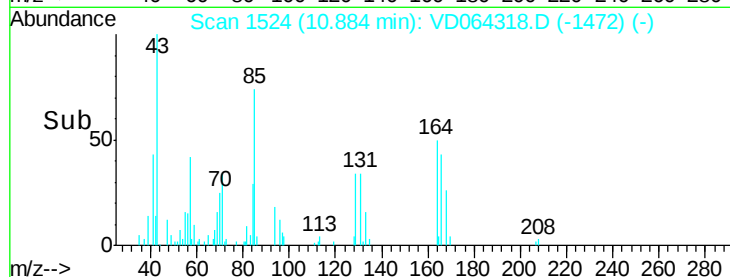
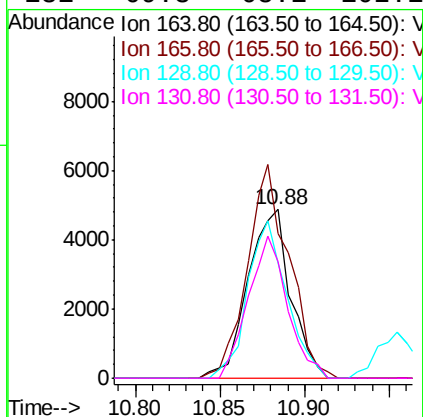
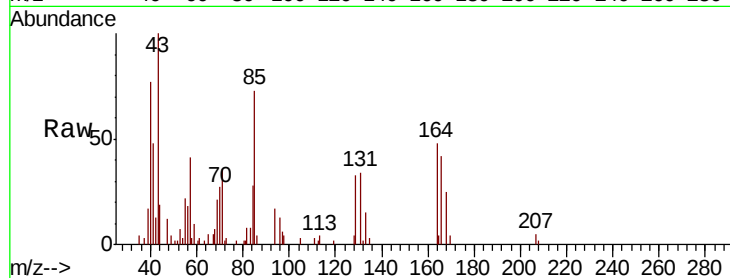
129 68.6 68.7 103.1#

131 69.3 68.1 102.1

Manual Integrations
APPROVED

MMDadoda

11/22/2019 12:52:21 AM



#67

Ethyl Benzene

Concen: 5.851 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064318.D

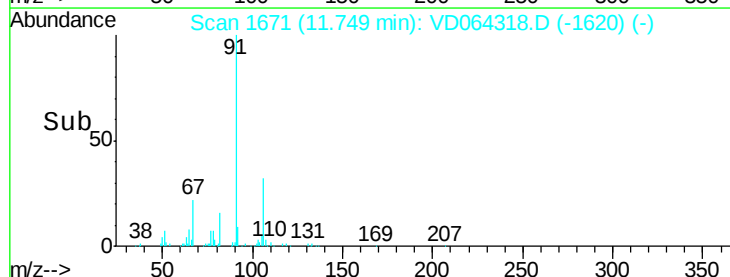
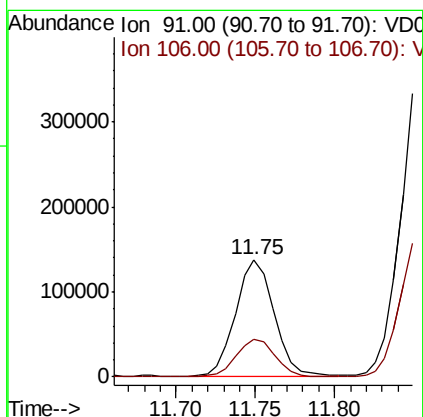
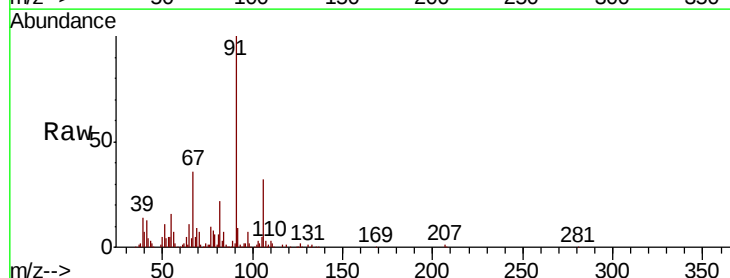
Acq: 20 Nov 2019 17:40

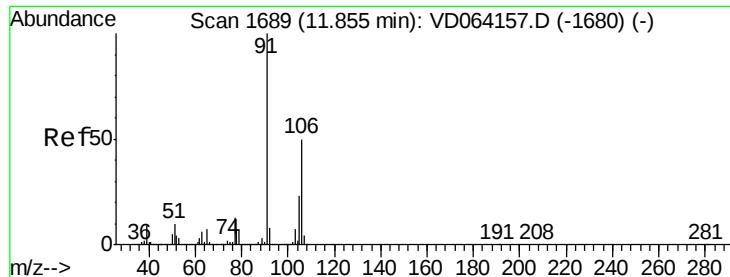
Tgt Ion: 91 Resp: 230534

Ion Ratio Lower Upper

91 100

106 31.5 25.5 38.3





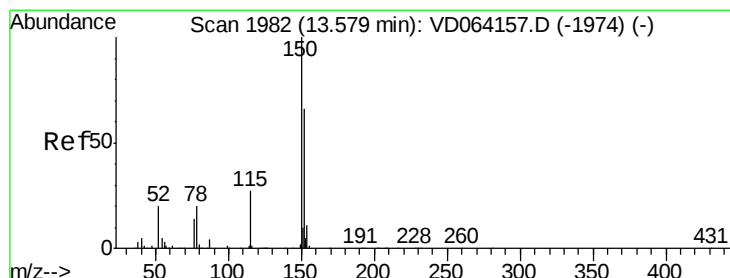
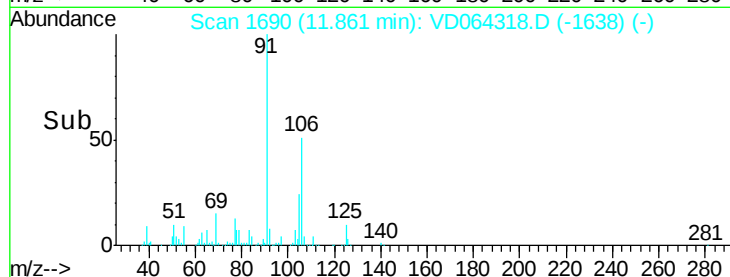
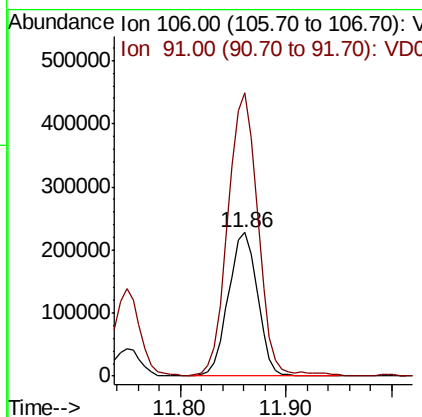
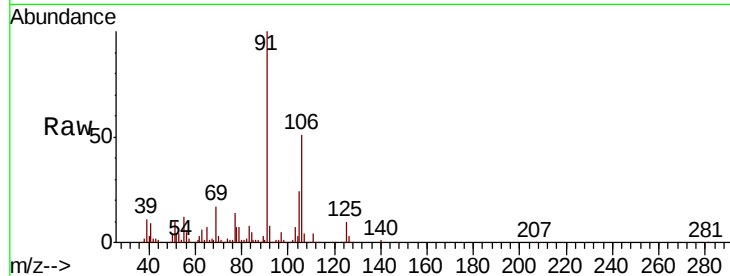
#68
m/p-Xvlenes
Concen: 28.819 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampled :
VIBLK

Tot Ion:106 Resp: 435272
Ion Ratio Lower Upper
106 100
91 199.7 160.3 240.5

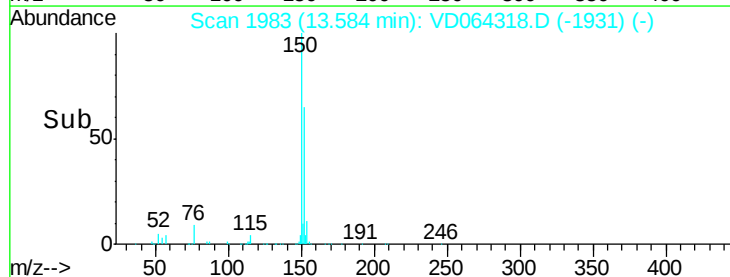
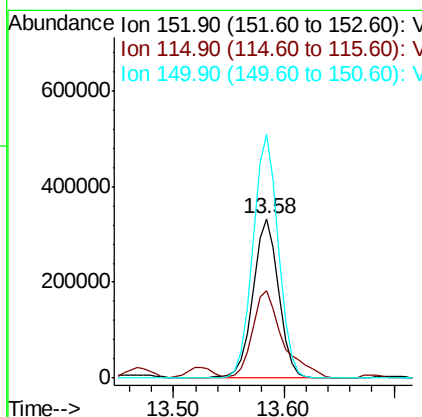
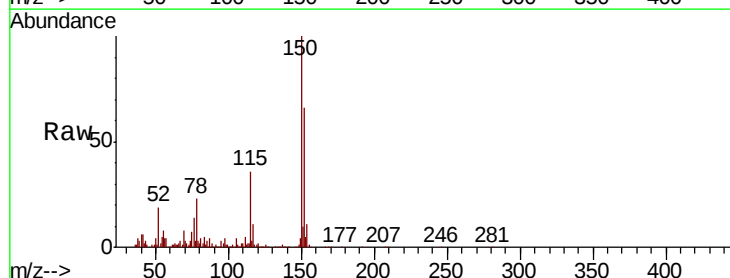
Manual Integrations
APPROVED

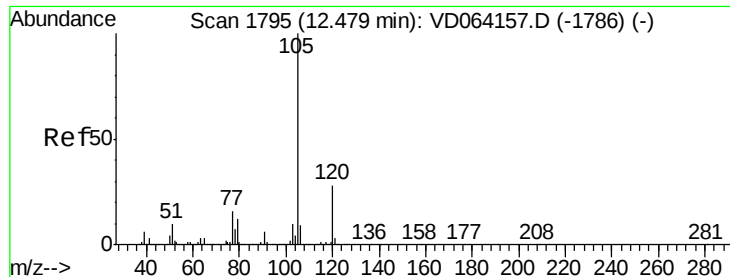
MMDadoda
11/22/2019 12:52:21 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Tgt Ion:152 Resp: 543740
Ion Ratio Lower Upper
152 100
115 63.7 27.4 82.2
150 151.0 0.0 351.6





#73

Isopropylbenzene

Concen: 14.895 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064318.D

Acq: 20 Nov 2019 17:40

Instrument :

MSVOA_D

ClientSampled :

VIBLK

Tot Ion: 105 Resp: 594469

Ion Ratio Lower Upper

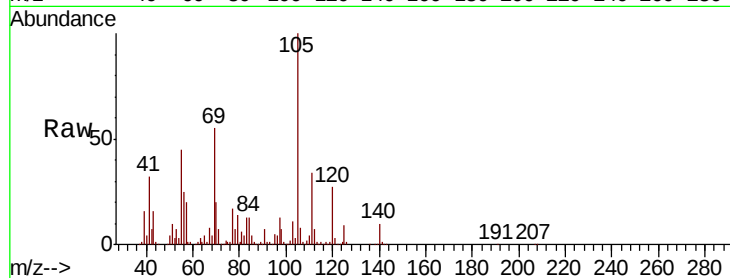
105 100

120 26.6 13.6 40.8

Manual Integrations
APPROVED

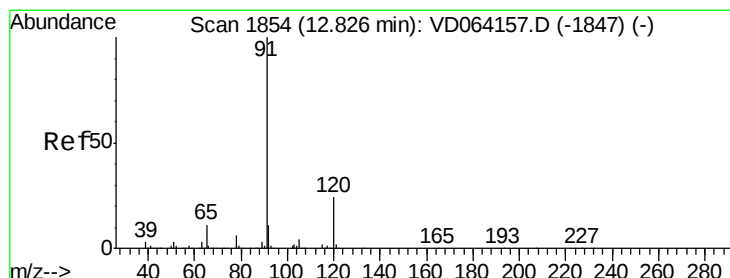
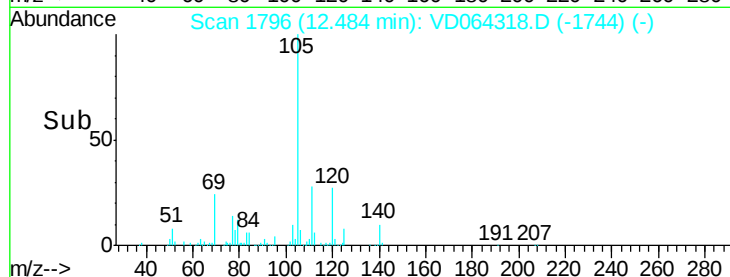
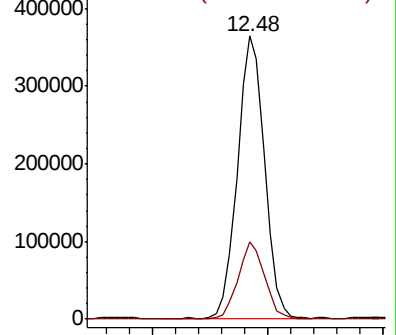
MMDadoda

11/22/2019 12:52:21 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 30.681 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064318.D

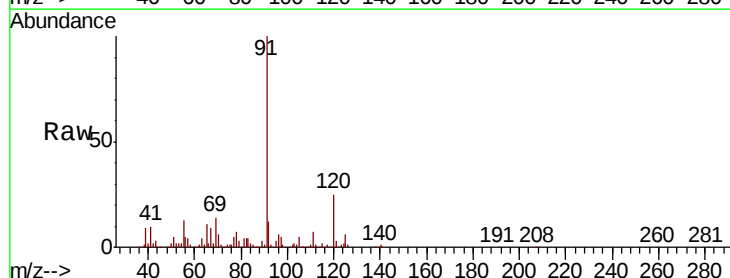
Acq: 20 Nov 2019 17:40

Tgt Ion: 91 Resp: 1398977

Ion Ratio Lower Upper

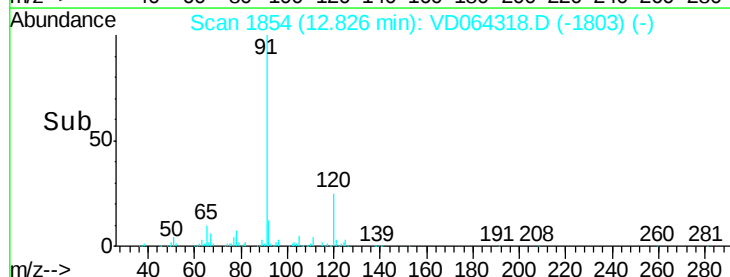
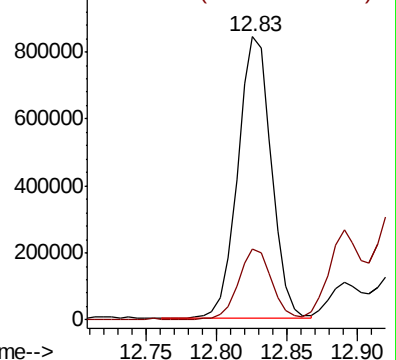
91 100

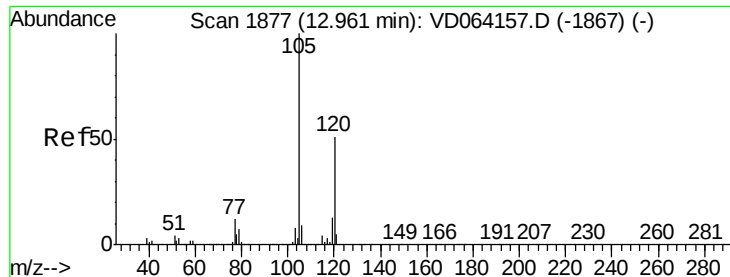
120 24.4 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





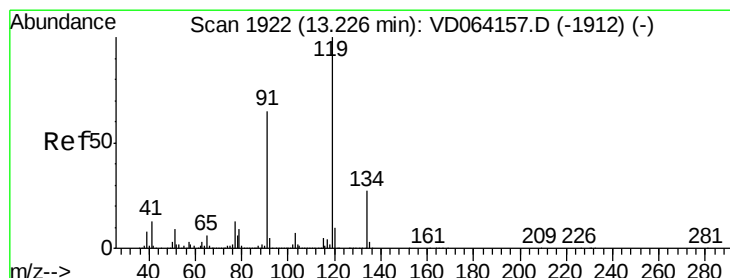
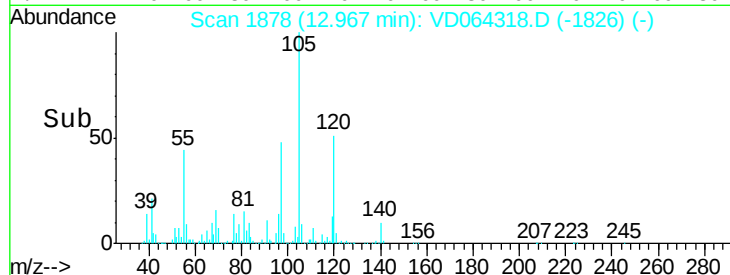
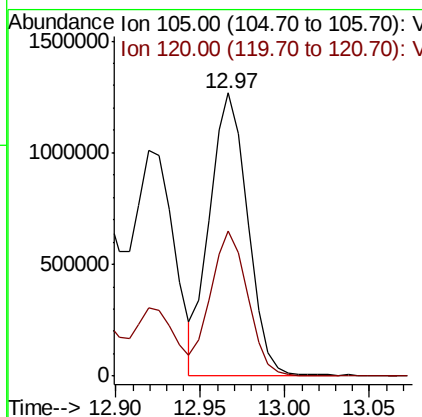
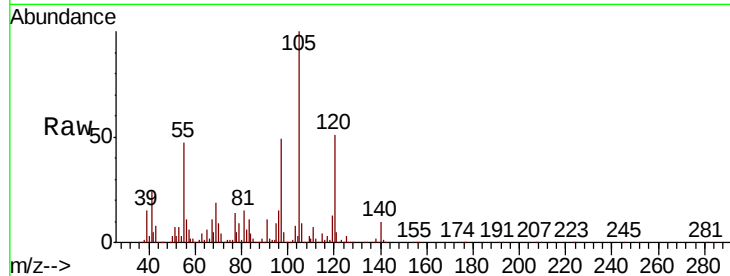
#80
1,3,5-Trimethylbenzene
Concen: 59.915 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.01 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampled :
VIBLK

Tot Ion:105 Resp: 1964877
Ion Ratio Lower Upper
105 100
120 50.3 25.4 76.4

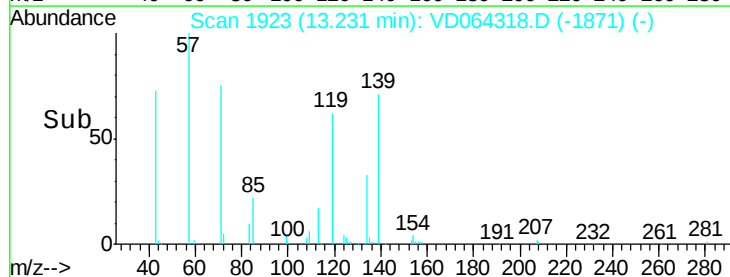
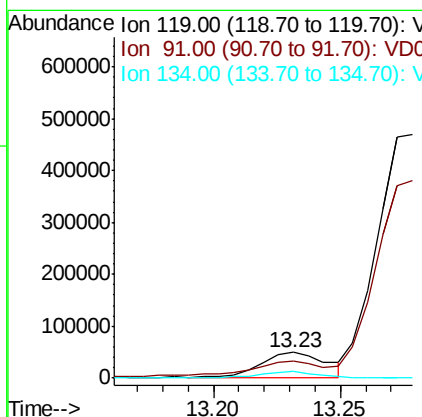
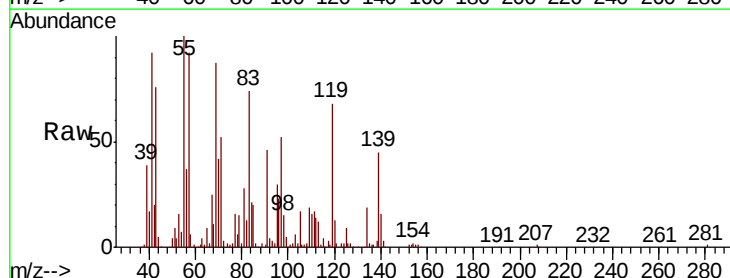
Manual Integrations
APPROVED

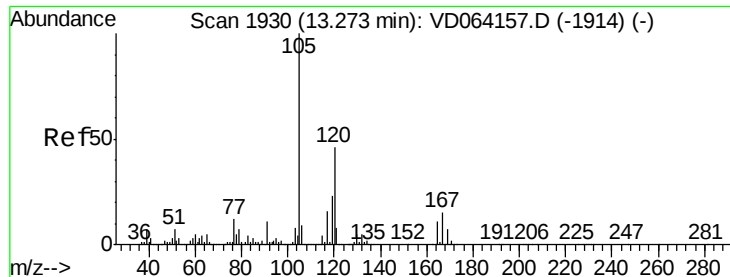
MMDadoda
11/22/2019 12:52:21 AM



#83
tert-Butylbenzene
Concen: 2.875 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Tgt Ion:119 Resp: 83126
Ion Ratio Lower Upper
119 100
91 63.8 31.8 95.4
134 27.8 13.7 41.0





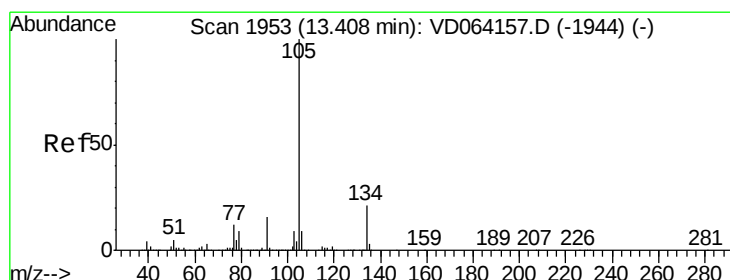
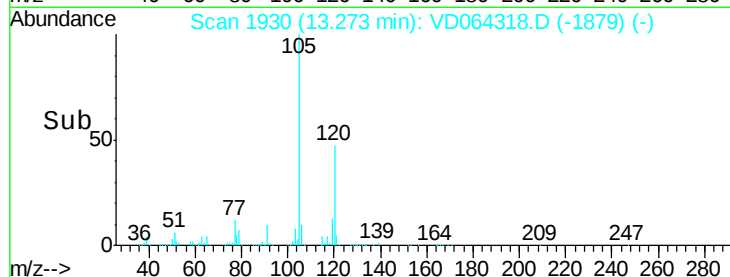
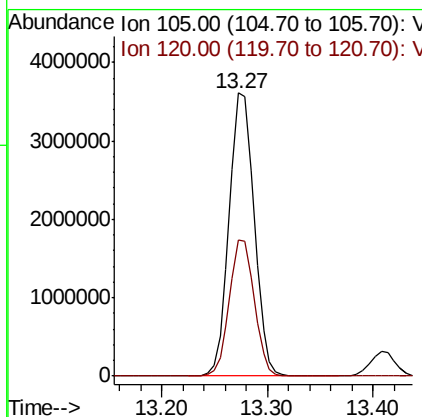
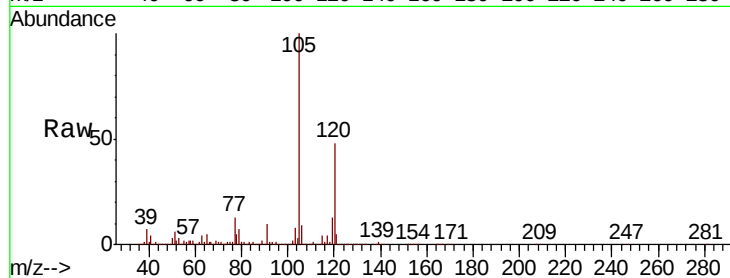
#84
1,2,4-Trimethylbenzene
Concen: 182.045 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tot Ion:105 Resp: 5893989
Ion Ratio Lower Upper
105 100
120 48.0 23.3 69.8

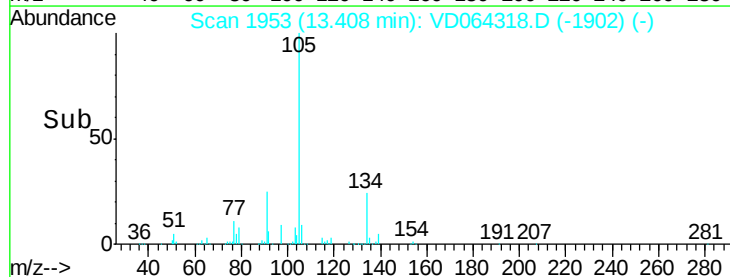
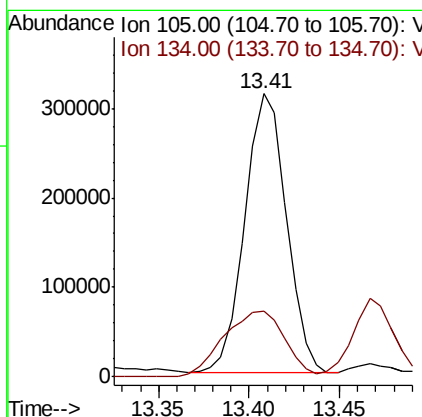
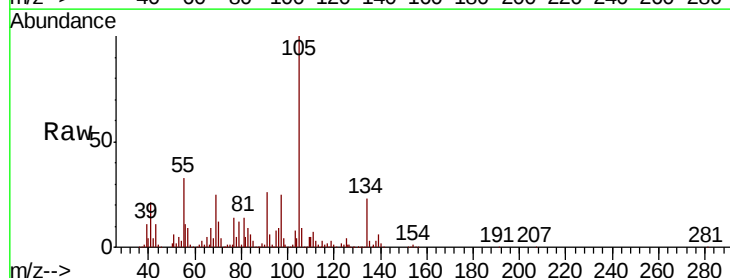
Manual Integrations
APPROVED

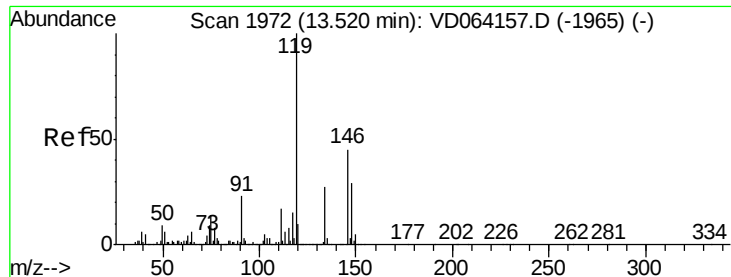
MMDadoda
11/22/2019 12:52:21 AM



#85
sec-Butylbenzene
Concen: 12.779 ug/l
RT: 13.41 min Scan# 1953
Delta R.T. -0.00 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Tgt Ion:105 Resp: 496313
Ion Ratio Lower Upper
105 100
134 34.4 10.7 31.9#





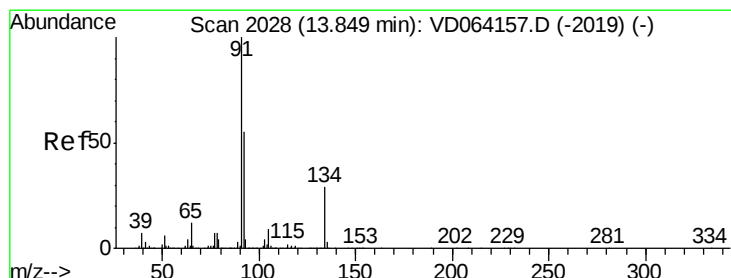
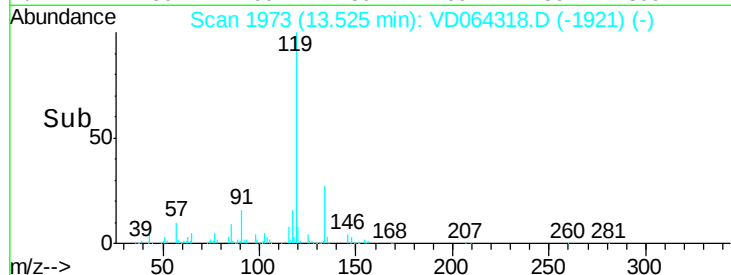
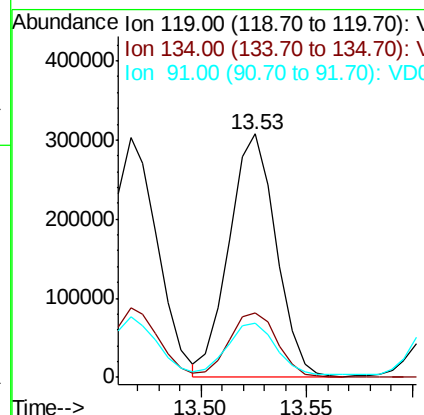
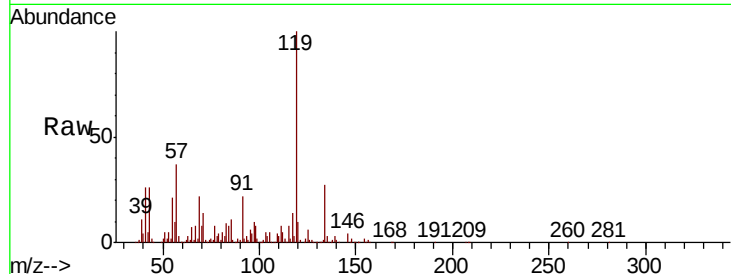
#86
 p-Isopropyltoluene
 Concen: 12.696 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VD064318.D
 Acq: 20 Nov 2019 17:40

Instrument :
 MSVOA_D
 ClientSampleID :
 VIBLK

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.4	13.5	40.5
91	21.8	11.5	34.4

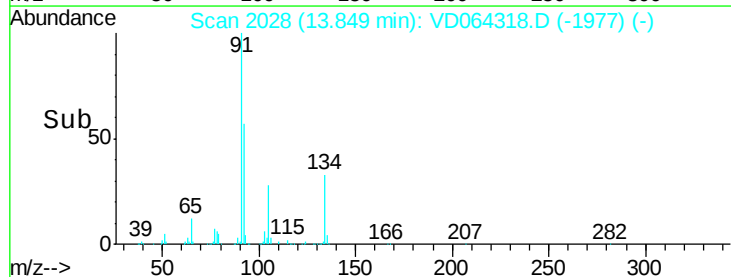
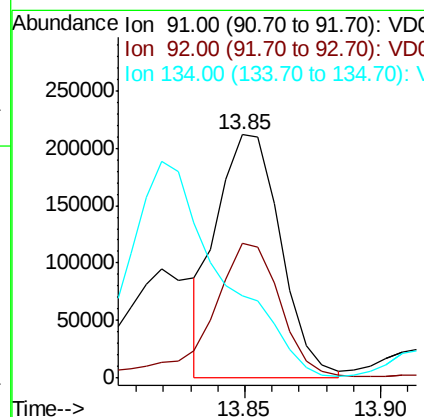
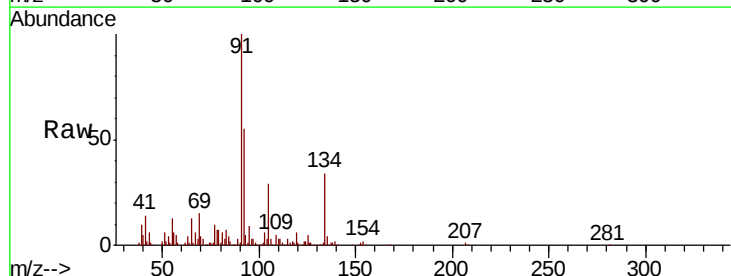
Manual Integrations
 APPROVED

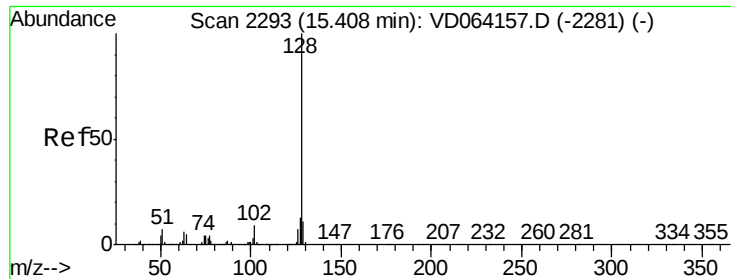
MMDadoda
 11/22/2019 12:52:21 AM



#89
 n-Butylbenzene
 Concen: 10.348 ug/l m
 RT: 13.85 min Scan# 2028
 Delta R.T. -0.00 min
 Lab File: VD064318.D
 Acq: 20 Nov 2019 17:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.3	27.3	81.8
134	0.0	14.1	42.4#





#95
Naphthalene
Concen: 39.314 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD064318.D
Acq: 20 Nov 2019 17:40

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tot Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	13.0	10.5	15.7
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
11/22/2019 12:52:21 AM

