

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063134.D
 Acq On : 17 Jul 2019 16:30
 Operator : VA/AP
 Sample : VD0717SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS01

Manual Integrations
 APPROVED

MMDadoda
 7/18/2019 10:01:31 AM

Quant Time: Jul 18 07:51:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	943380	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1305029	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1024882	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	548394	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	386447	32.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.76%	
35) Dibromofluoromethane	6.92	113	464816	35.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	71.52%	
50) Toluene-d8	10.41	98	922740	33.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	66.10%	
62) 4-Bromofluorobenzene	13.56	95	425675	32.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.90%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.56	85	183885	15.439	ug/l	97
3) Chloromethane	1.74	50	136153	13.464	ug/l #	78
4) Vinyl Chloride	1.84	62	142413	14.144	ug/l	96
5) Bromomethane	2.14	94	58473	12.792	ug/l	93
6) Chloroethane	2.25	64	63781	13.637	ug/l	99
7) Trichlorofluoromethane	2.52	101	283279	13.898	ug/l	93
8) Diethyl Ether	2.86	74	37485	13.074	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.14	101	154978	13.187	ug/l	94
10) Methyl Iodide	3.29	142	199890	13.854	ug/l	98
11) Tert butyl alcohol	4.09	59	40566	59.814	ug/l	98
12) 1,1-Dichloroethene	3.11	96	112803	13.516	ug/l	94
13) Acrolein	3.03	56	16252m	79.398	ug/l	
14) Allyl chloride	3.61	41	185622	14.152	ug/l	91
15) Acrylonitrile	4.19	53	97736	65.194	ug/l	93
16) Acetone	3.22	43	155129	54.655	ug/l	99
17) Carbon Disulfide	3.37	76	327788	13.722	ug/l	96
18) Methyl Acetate	3.64	43	86909	18.545	ug/l	97
19) Methyl tert-butyl Ether	4.23	73	279050	13.246	ug/l	96
20) Methylene Chloride	3.81	84	139602	13.019	ug/l	96
21) trans-1,2-Dichloroethene	4.21	96	126115	13.612	ug/l	96
22) Diisopropyl ether	5.12	45	398016	13.957	ug/l	99
23) Vinyl Acetate	5.05	43	1070681	64.352	ug/l #	96
24) 1,1-Dichloroethane	4.98	63	240784	13.707	ug/l	99
25) 2-Butanone	6.07	43	168359	62.116	ug/l	99
26) 2,2-Dichloropropane	6.01	77	258747	13.309	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	140588	13.340	ug/l	98
28) Bromochloromethane	6.43	49	91142	14.301	ug/l	88
29) Tetrahydrofuran	6.47	42	80644	65.637	ug/l	96
30) Chloroform	6.66	83	306713	14.177	ug/l	98
31) Cyclohexane	6.95	56	151026	13.500	ug/l #	96
32) 1,1,1-Trichloroethane	6.87	97	311066	14.581	ug/l	98
36) 1,1-Dichloropropene	7.14	75	188785	12.862	ug/l	98
37) Ethyl Acetate	6.18	43	83183	13.242	ug/l	99
38) Carbon Tetrachloride	7.11	117	287097	12.873	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	162530	12.809	ug/l	95
40) Benzene	7.45	78	395100	12.853	ug/l	95
41) Methacrylonitrile	6.45	41	106358	12.489	ug/l #	86
42) 1,2-Dichloroethane	7.58	62	229854	14.035	ug/l	98
43) Isopropyl Acetate	9.24	43	112378	12.481	ug/l #	96
44) Trichloroethene	8.53	130	158590	13.349	ug/l	90
45) 1,2-Dichloropropane	8.94	63	98030	12.791	ug/l #	86
46) Dibromomethane	9.07	93	89468	13.584	ug/l	90
47) Bromodichloromethane	9.38	83	234291	13.632	ug/l #	95
48) Methyl methacrylate	9.13	41	71809	12.145	ug/l	97
49) 1,4-Dioxane	9.09	88	12624	247.567	ug/l #	89
51) 4-Methyl-2-Pentanone	10.31	43	397693	66.596	ug/l	95
52) Toluene	10.50	92	275762	13.434	ug/l	90
53) t-1,3-Dichloropropene	10.92	75	194825	13.231	ug/l	95
54) cis-1,3-Dichloropropene	10.04	75	192709	12.657	ug/l	99
55) 1,1,2-Trichloroethane	11.19	97	101717	14.338	ug/l	91
56) Ethyl methacrylate	11.04	69	101248	12.774	ug/l	98
57) 1,3-Dichloropropane	11.41	76	142958	13.244	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.85	63	275607	62.449	ug/l	97
59) 2-Hexanone	11.54	43	273952	59.484	ug/l	92
60) Dibromochloromethane	11.68	129	177269	13.036	ug/l	90
61) 1,2-Dibromoethane	11.80	107	120257	14.162	ug/l	92
64) Tetrachloroethene	11.26	164	145923	14.673	ug/l	94
65) Chlorobenzene	12.40	112	345330	14.334	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	162186	14.520	ug/l	99
67) Ethyl Benzene	12.52	91	590220	14.100	ug/l	97
68) m/p-Xylenes	12.67	106	451682	30.126	ug/l	98
69) o-Xylene	13.05	106	203534	14.316	ug/l	99
70) Styrene	13.07	104	369721	14.857	ug/l	98
71) Bromoform	13.24	173	109709	14.029	ug/l #	96
73) Isopropylbenzene	13.41	105	663078	15.657	ug/l	98
74) N-amyl acetate	13.27	43	166754	14.118	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	109741	14.242	ug/l	97
76) 1,2,3-Trichloropropane	13.73	75	108916	12.911	ug/l	94
77) Bromobenzene	13.67	156	189585	15.786	ug/l	94
78) n-propylbenzene	13.77	91	769001	15.779	ug/l	97
79) 2-Chlorotoluene	13.84	91	449590	15.257	ug/l	100
80) 1,3,5-Trimethylbenzene	13.94	105	525003	14.224	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.48	75	32270	14.526	ug/l	90
82) 4-Chlorotoluene	13.95	91	532974	15.489	ug/l	93
83) tert-Butylbenzene	14.20	119	610480	14.627	ug/l	95
84) 1,2,4-Trimethylbenzene	14.23	105	562140	15.276	ug/l	98
85) sec-Butylbenzene	14.37	105	650918	14.679	ug/l	99
86) p-Isopropyltoluene	14.49	119	627862	15.178	ug/l	98
87) 1,3-Dichlorobenzene	14.46	146	332185	15.488	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	303614	14.766	ug/l	97
89) n-Butylbenzene	14.80	91	568106	14.900	ug/l	97
90) Hexachloroethane	15.01	117	149315	13.502	ug/l	95
91) 1,2-Dichlorobenzene	14.81	146	284269	14.884	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.39	75	21444	14.519	ug/l	63

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ClientSampleId :
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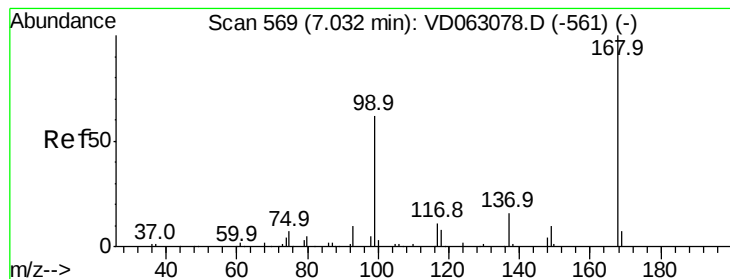
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	209886	14.628	µg/l	99
94) Hexachlorobutadiene	16.04	225	156431	14.791	µg/l	97
95) Naphthalene	16.12	128	315018	15.009	µg/l	97
96) 1,2,3-Trichlorobenzene	16.27	180	165965	14.378	µg/l	97

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



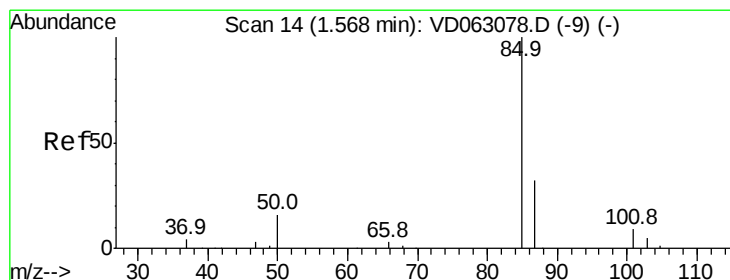
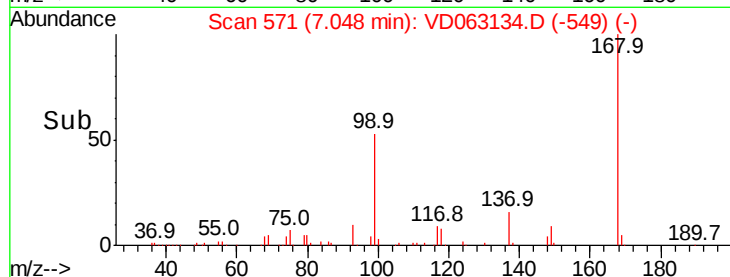
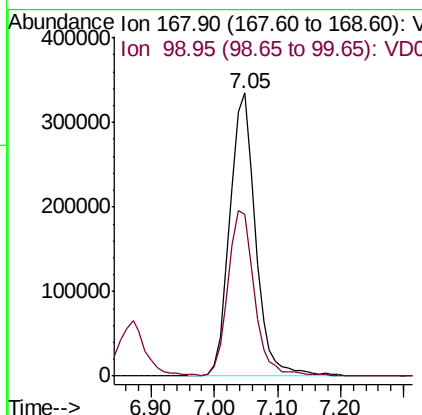
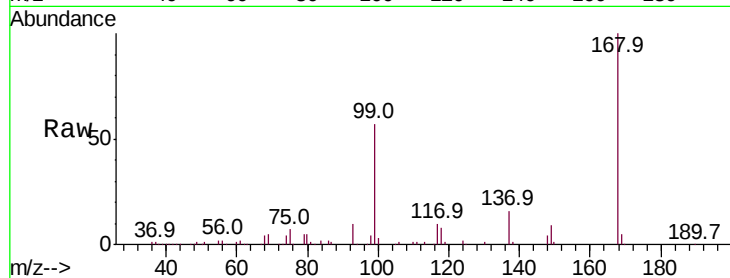
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

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MSVOA_D
ClientSampleId :
VD0717SBSD01

Tot Ion:168 Resp: 943380
Ion Ratio Lower Upper
168 100
99 57.0 50.8 76.2

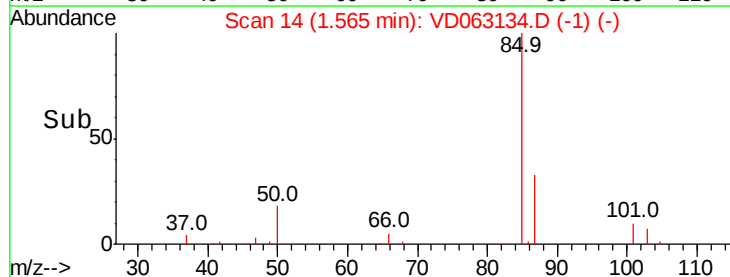
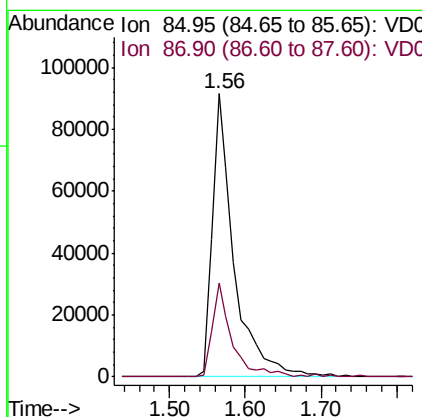
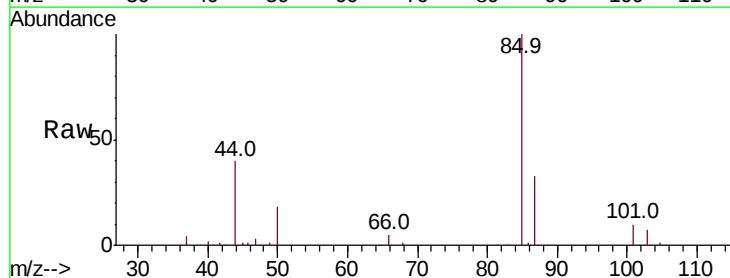
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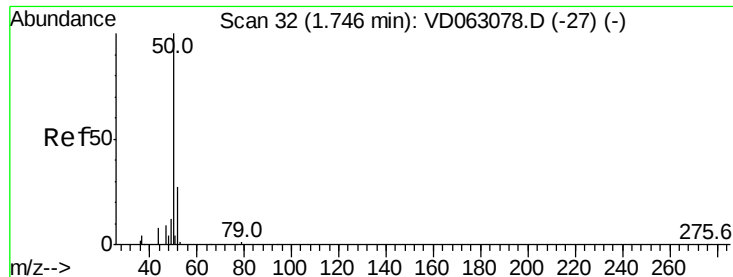
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7/18/2019 10:01:31 AM



#2
Dichlorodifluoromethane
Concen: 15.439 ug/l
RT: 1.56 min Scan# 14
Delta R.T. -0.00 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion: 85 Resp: 183885
Ion Ratio Lower Upper
85 100
87 33.3 15.9 47.7





#3

Chloromethane

Concen: 13.464 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 50 Resp: 136153

Ion Ratio Lower Upper

50 100

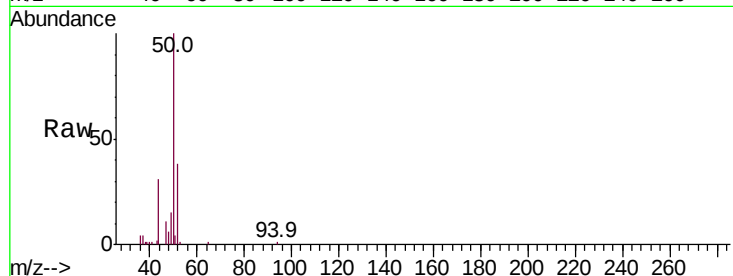
52 38.1 21.4 32.2#

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

50000

40000

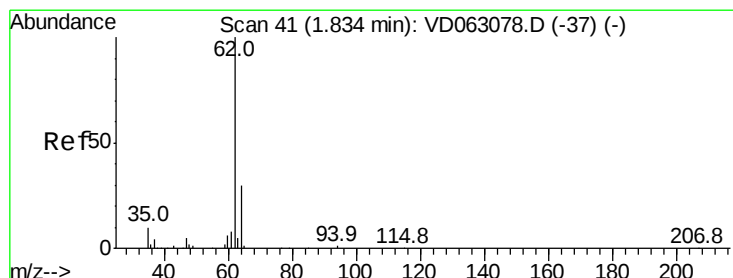
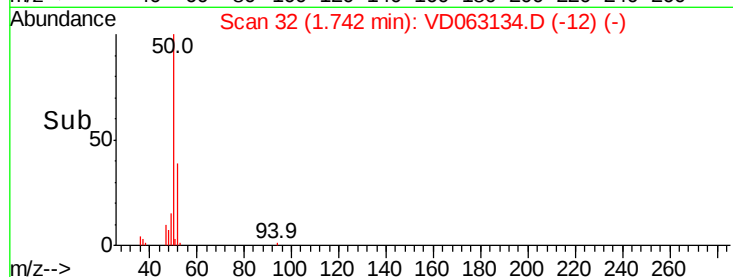
30000

20000

10000

0

Time-->



#4

Vinyl Chloride

Concen: 14.144 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.01 min

Lab File: VD063134.D

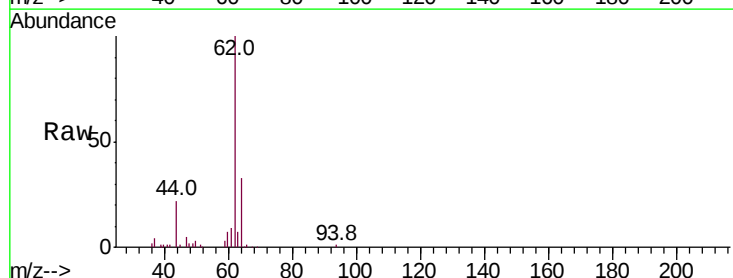
Acq: 17 Jul 2019 16:30

Tgt Ion: 62 Resp: 142413

Ion Ratio Lower Upper

62 100

64 32.7 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.84

80000

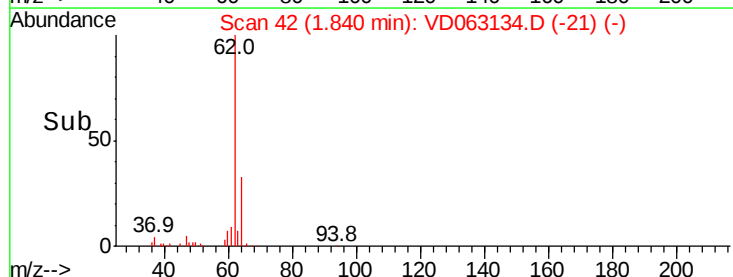
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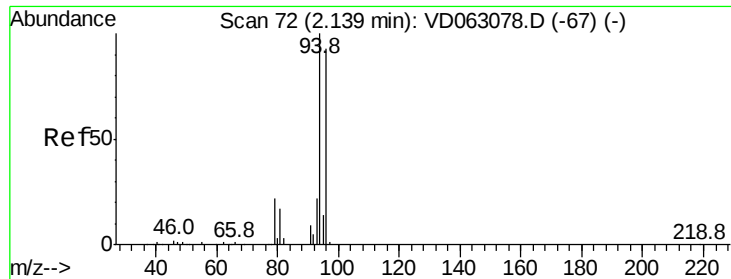
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20000

0

Time-->





#5

Bromomethane

Concen: 12.792 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 94 Resp: 58473

Ion Ratio Lower Upper

94 100

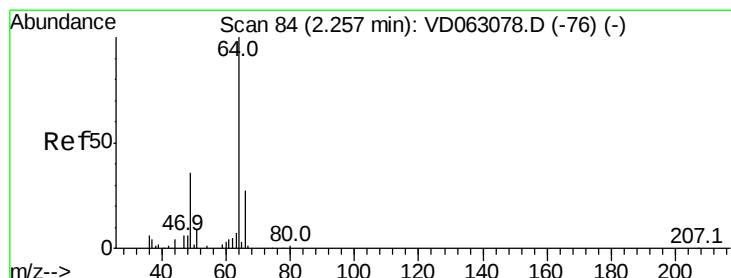
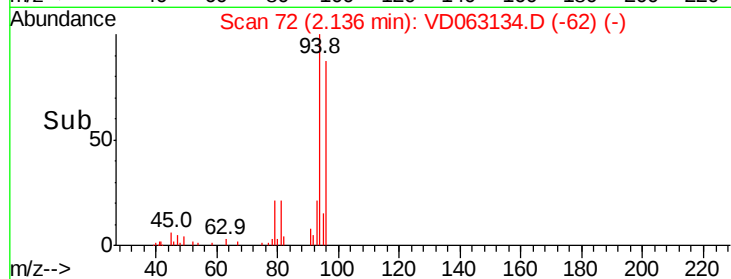
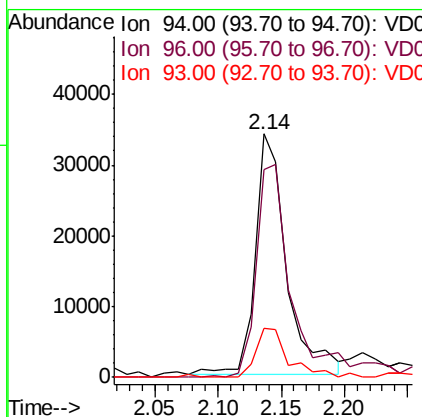
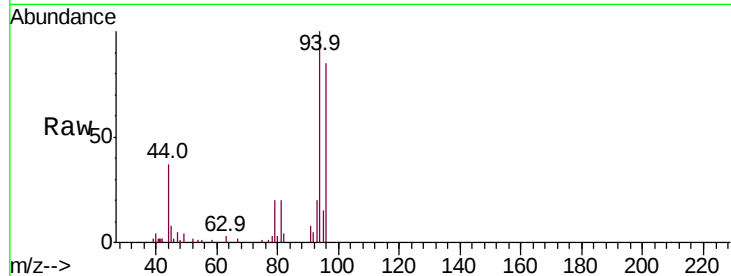
96 85.1 74.2 111.2

93 20.3 17.8 26.6

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#6

Chloroethane

Concen: 13.637 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.00 min

Lab File: VD063134.D

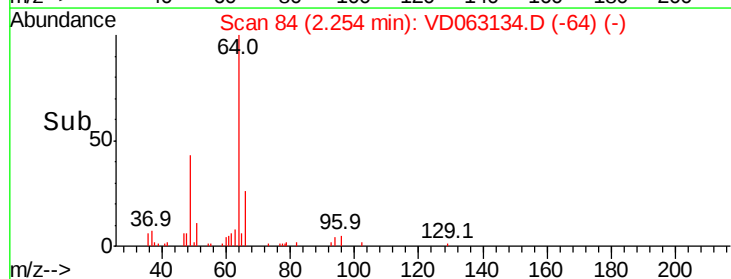
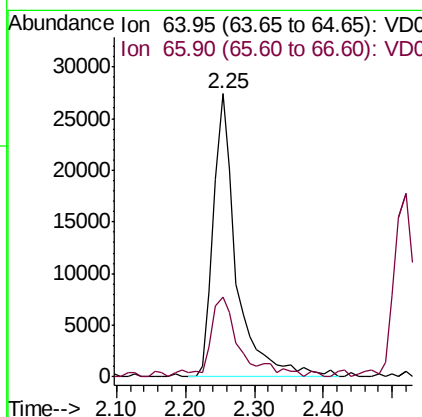
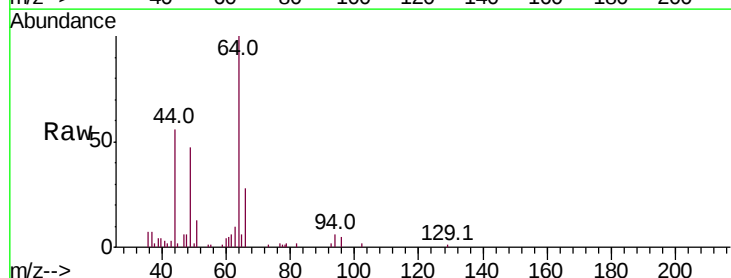
Acq: 17 Jul 2019 16:30

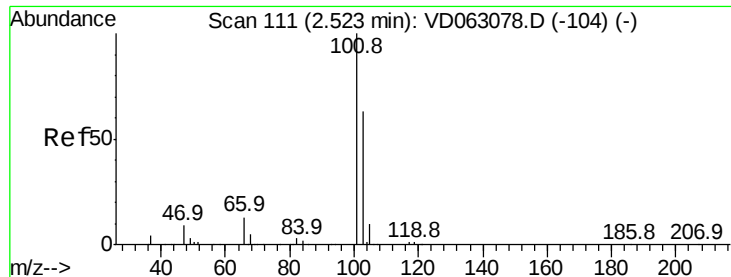
Tgt Ion: 64 Resp: 63781

Ion Ratio Lower Upper

64 100

66 28.4 22.5 33.7





#7

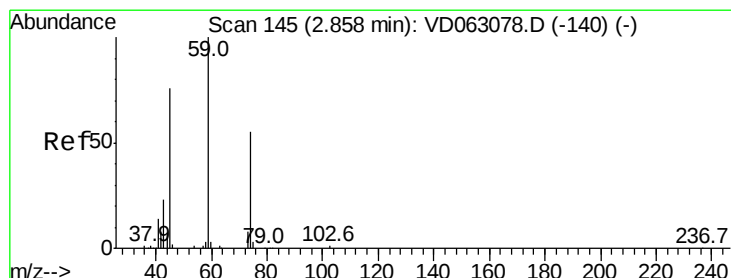
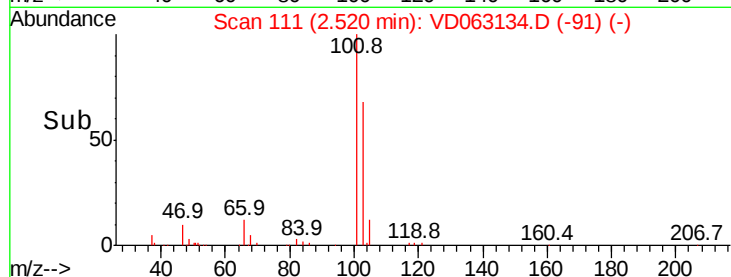
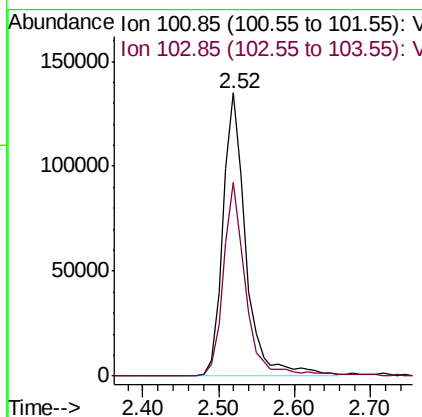
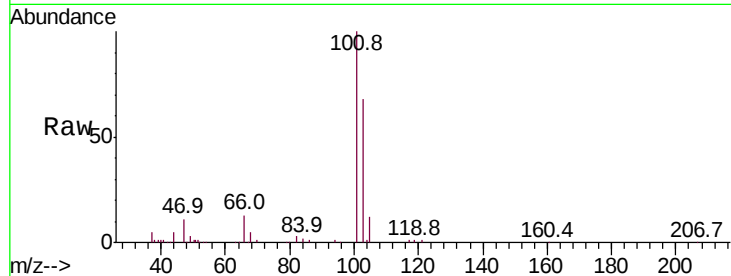
Trichlorofluoromethane
Concen: 13.898 ug/l
RT: 2.52 min Scan# 111
Delta R.T. -0.00 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

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ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.4	50.6	76.0

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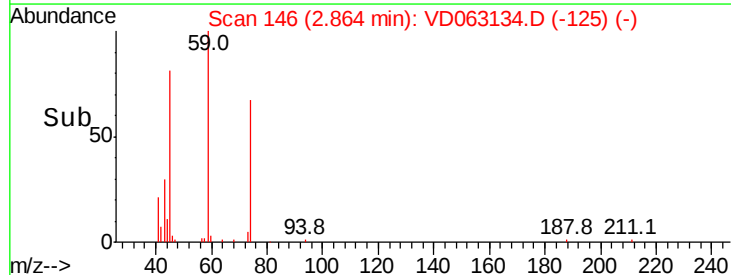
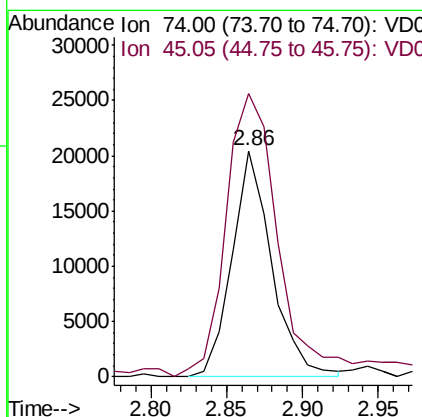
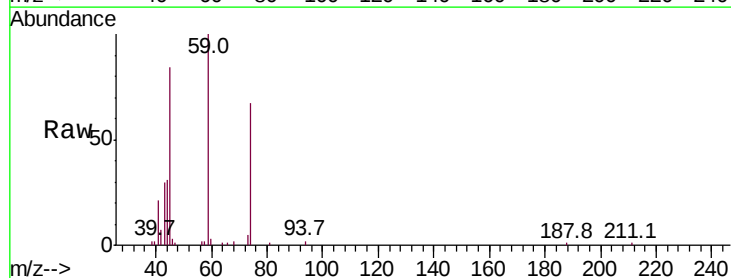
MMDadoda
7/18/2019 10:01:31 AM

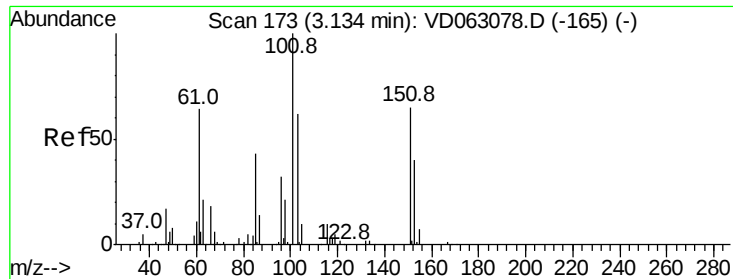


#8

Diethyl Ether
Concen: 13.074 ug/l
RT: 2.86 min Scan# 146
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	125.2	69.5	208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 13.187 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

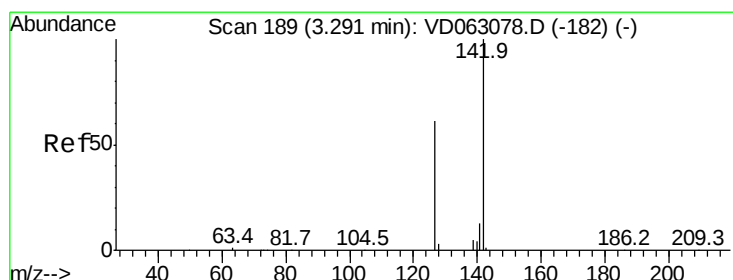
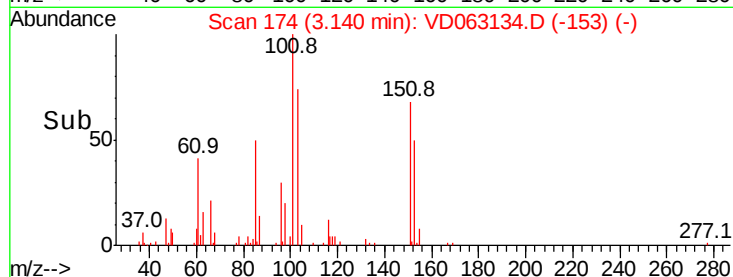
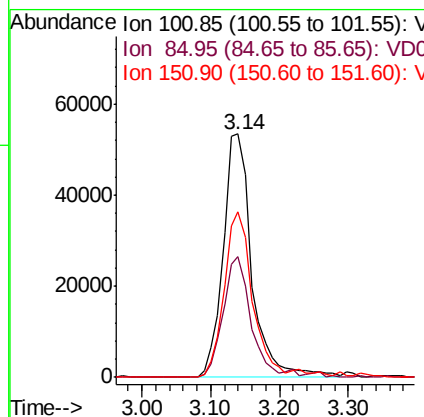
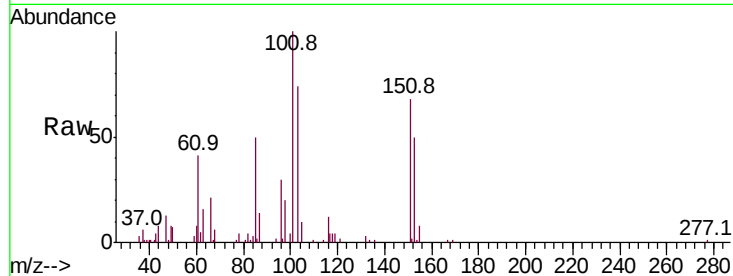
ClientSampleId :

VD0717SBS001

Tot Ion:	101	Resp:	154978
Ion Ratio	Lower	Upper	
101	100		
85	49.6	34.6	51.8
151	67.9	52.4	78.6

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#10

Methyl Iodide

Concen: 13.854 ug/l

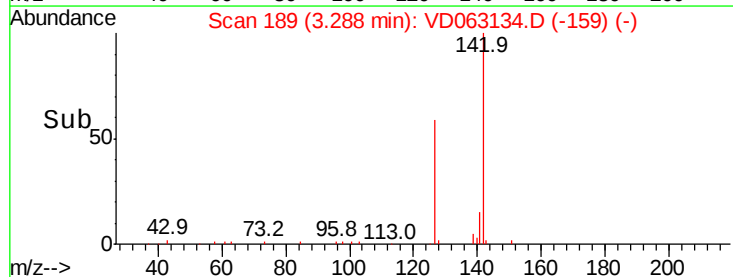
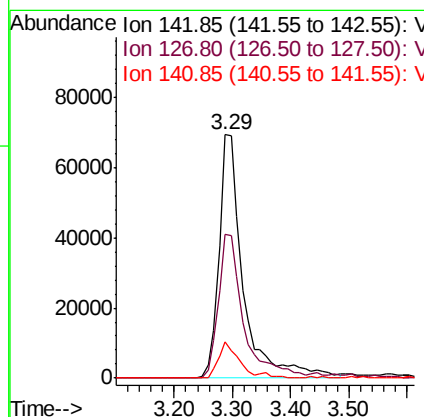
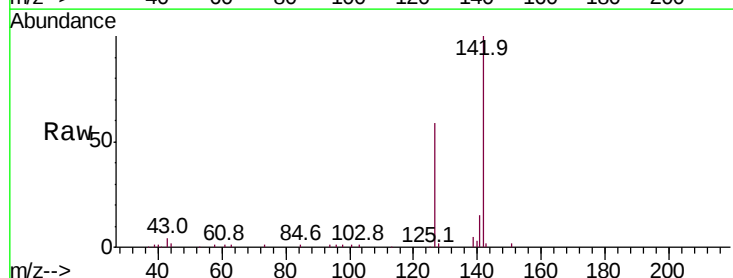
RT: 3.29 min Scan# 189

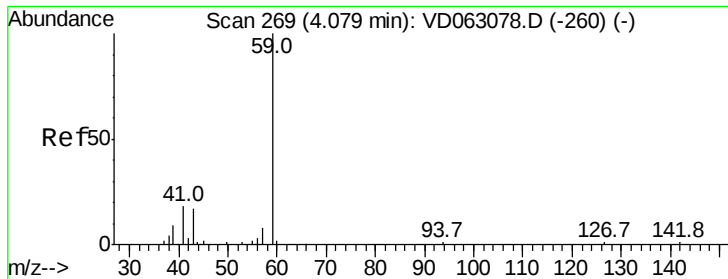
Delta R.T. -0.00 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion:	142	Resp:	199890
Ion Ratio	Lower	Upper	
142	100		
127	59.1	48.6	73.0
141	14.6	10.6	16.0





#11

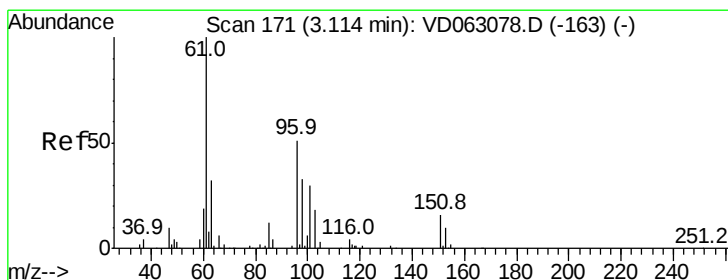
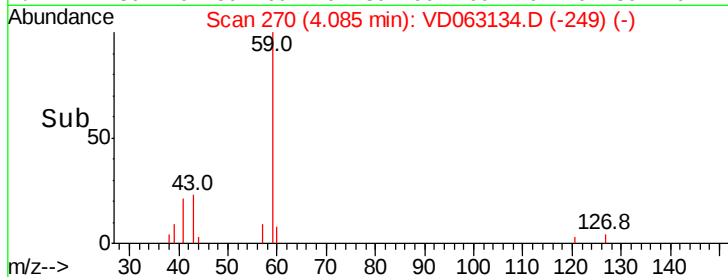
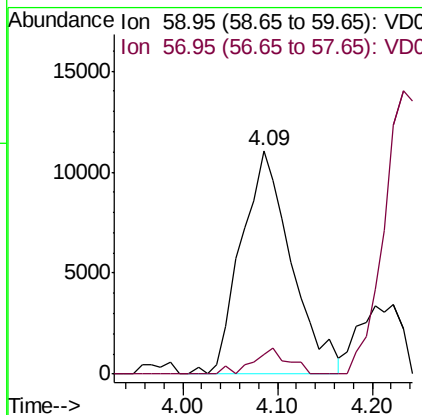
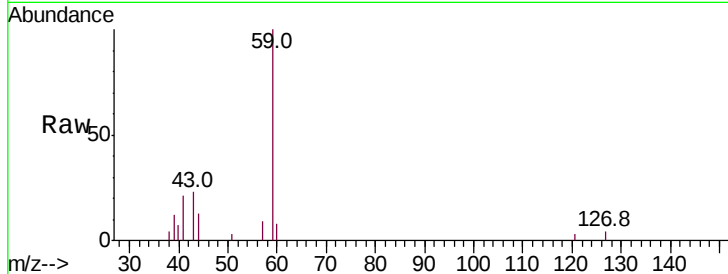
Tert butyl alcohol
Concen: 59.814 ug/l
RT: 4.09 min Scan# 270
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.7	6.4	9.6

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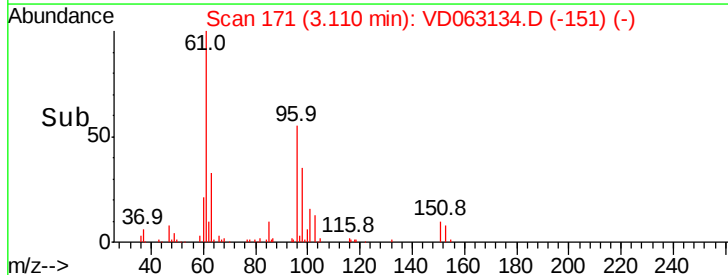
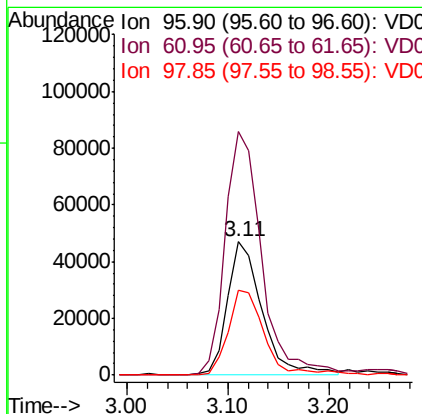
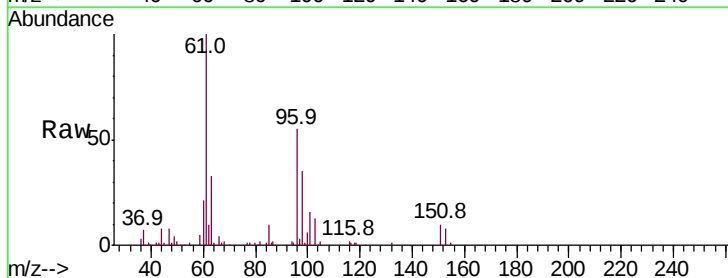
MMDadoda
7/18/2019 10:01:31 AM

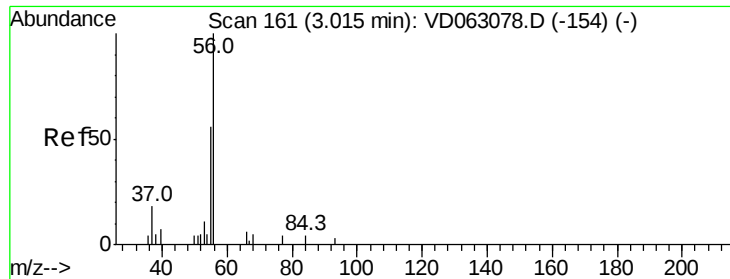


#12

1,1-Dichloroethene
Concen: 13.516 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.00 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	182.8	155.5	233.3
98	63.5	51.5	77.3





#13

Acrolein

Concen: 79.398 ug/l m

RT: 3.03 min Scan# 163

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 56 Resp: 16252

Ion Ratio Lower Upper

56 100

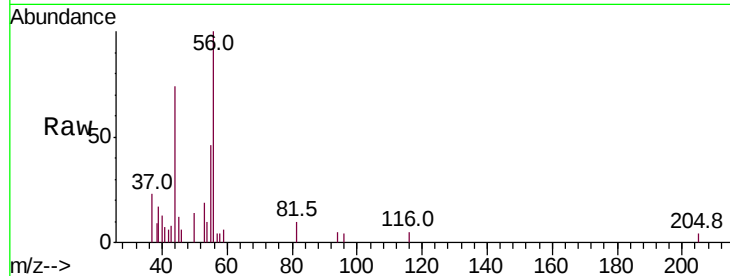
55 46.5 53.0 79.4#

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.03

8000

6000

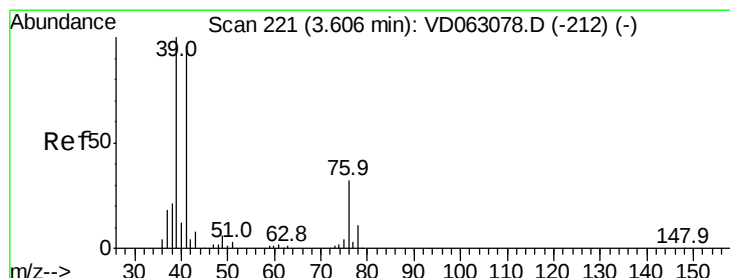
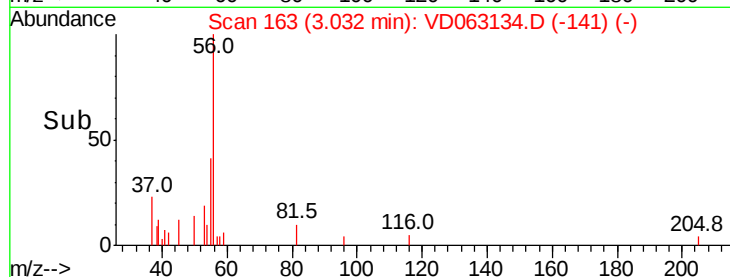
4000

2000

0

Time-->

2.95 3.00 3.05 3.10



#14

Allyl chloride

Concen: 14.152 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

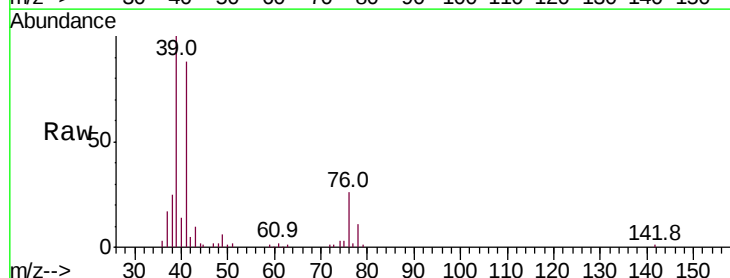
Tgt Ion: 41 Resp: 185622

Ion Ratio Lower Upper

41 100

39 113.8 83.5 125.3

76 29.9 27.8 41.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

100000

80000

60000

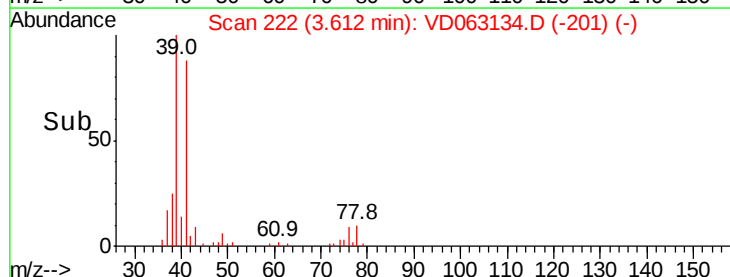
40000

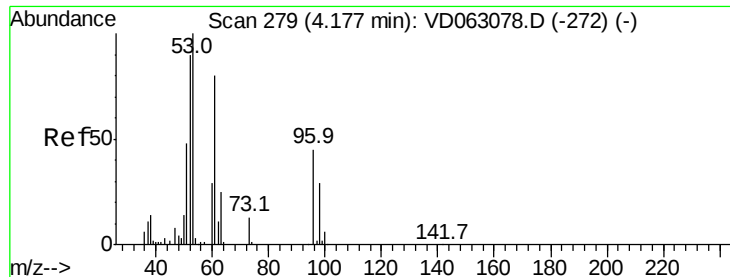
20000

0

Time-->

3.50 3.60 3.70





#15

Acrylonitrile

Concen: 65.194 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 53 Resp: 97736

Ion Ratio Lower Upper

53 100

52 81.2 72.3 108.5

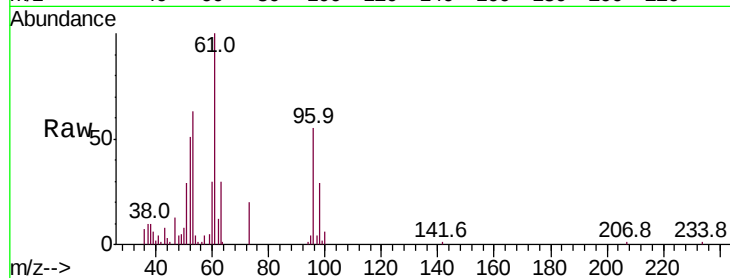
51 46.0 38.0 57.0

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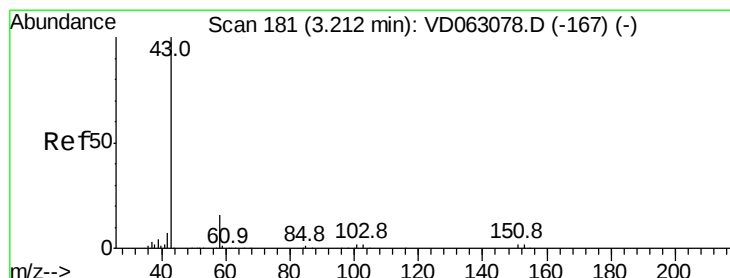
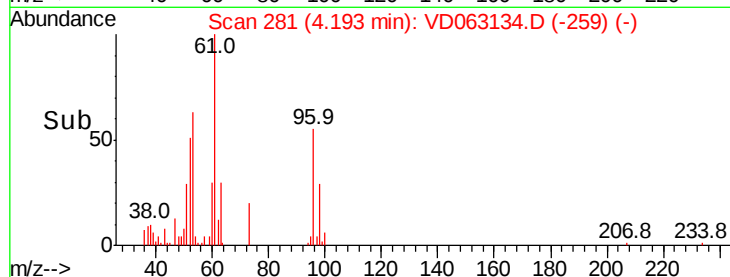
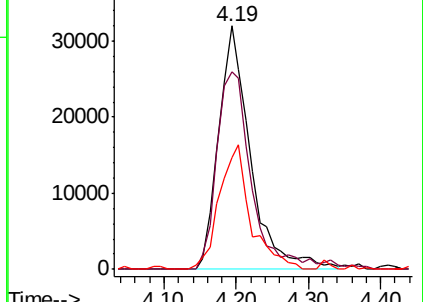
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Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 54.655 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD063134.D

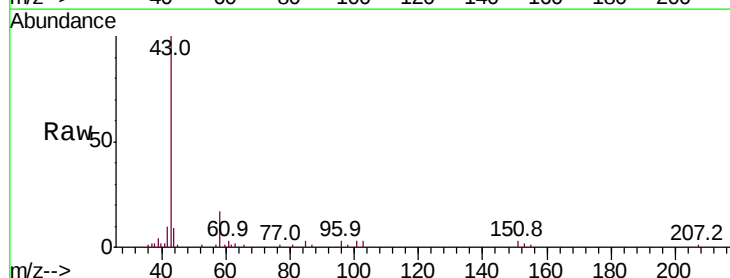
Acq: 17 Jul 2019 16:30

Tgt Ion: 43 Resp: 155129

Ion Ratio Lower Upper

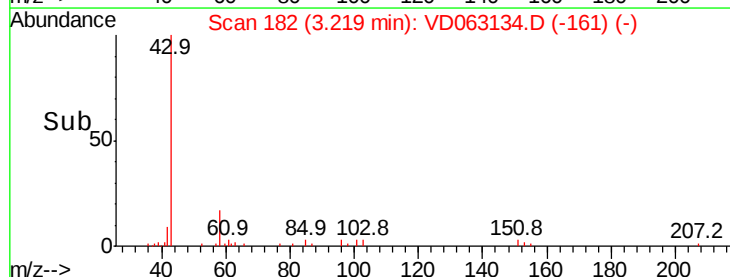
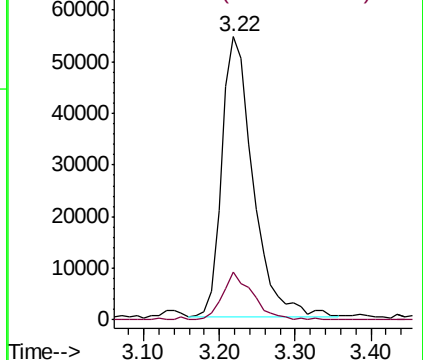
43 100

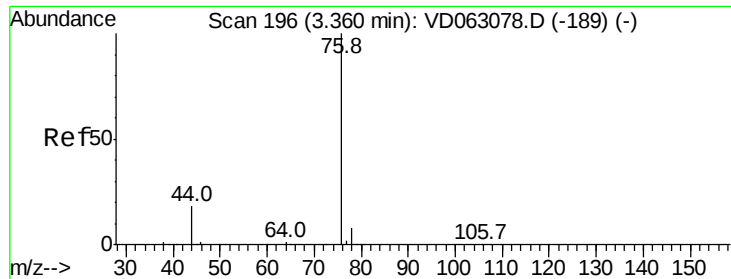
58 16.8 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





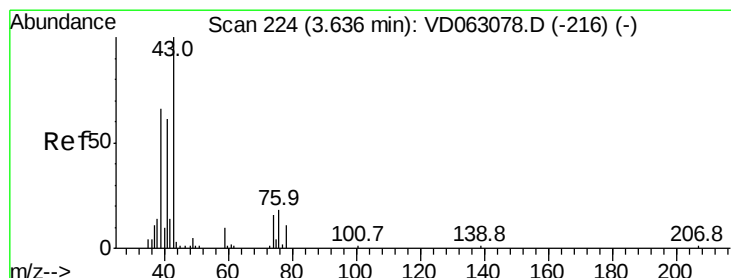
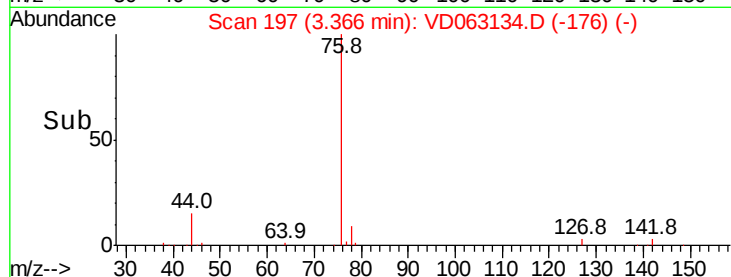
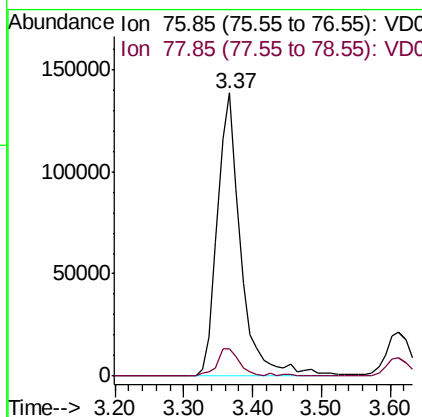
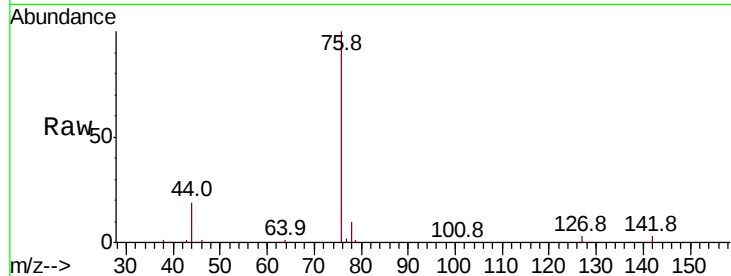
#17
Carbon Disulfide
Concen: 13.722 ug/l
RT: 3.37 min Scan# 197
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion: 76 Resp: 327788
Ion Ratio Lower Upper
76 100
78 9.7 6.7 10.1

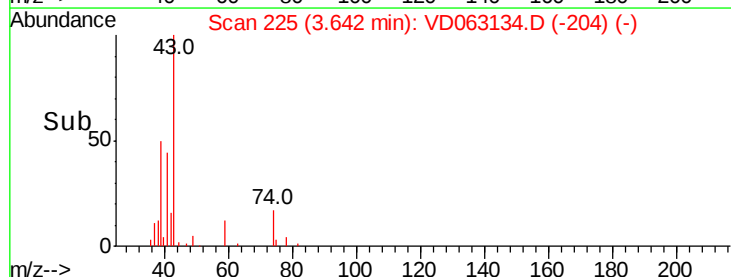
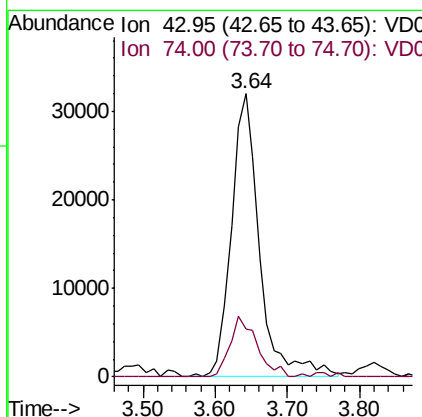
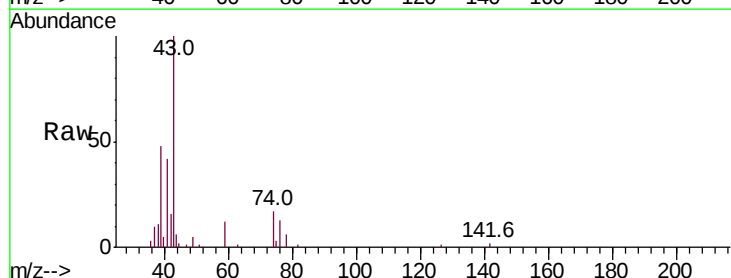
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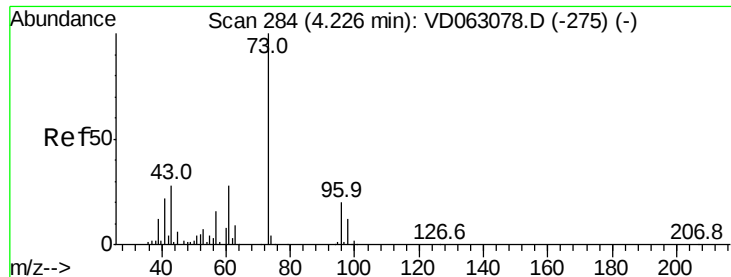
MMDadoda
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#18
Methyl Acetate
Concen: 18.545 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion: 43 Resp: 86909
Ion Ratio Lower Upper
43 100
74 16.8 12.5 18.7





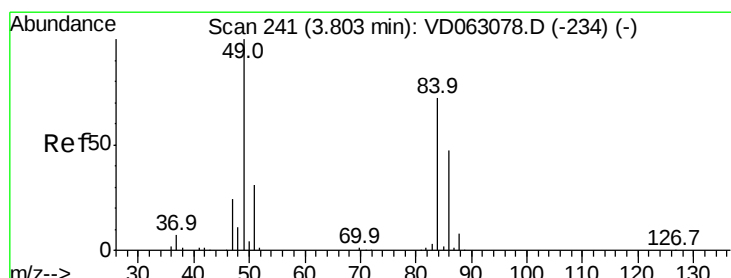
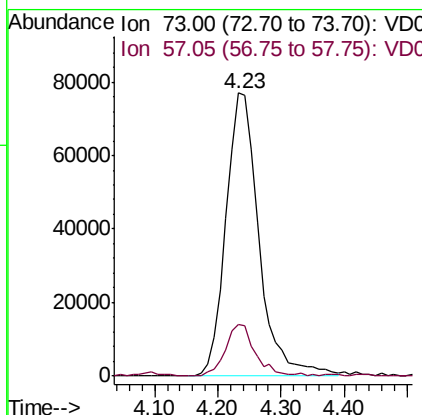
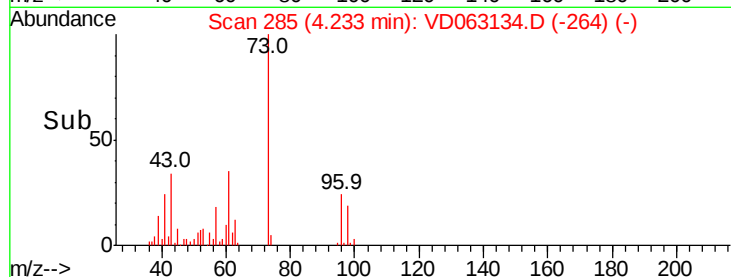
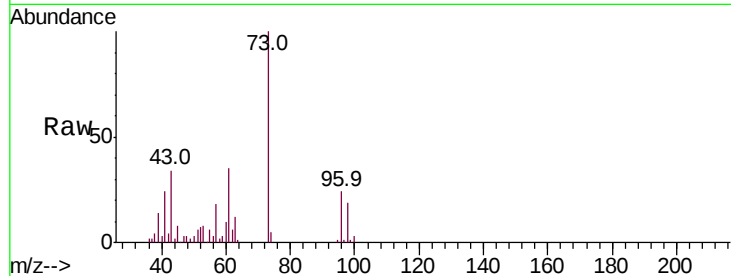
#19
Methvl tert-butvl Ether
Concen: 13.246 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion: 73 Resp: 279050
Ion Ratio Lower Upper
73 100
57 18.2 13.1 19.7

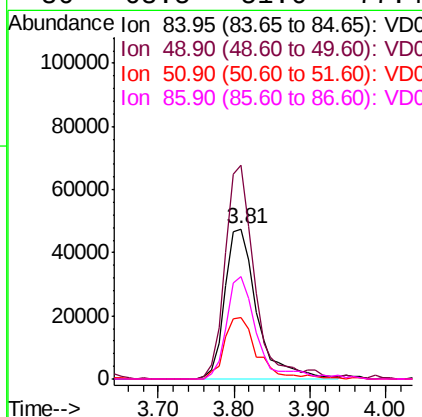
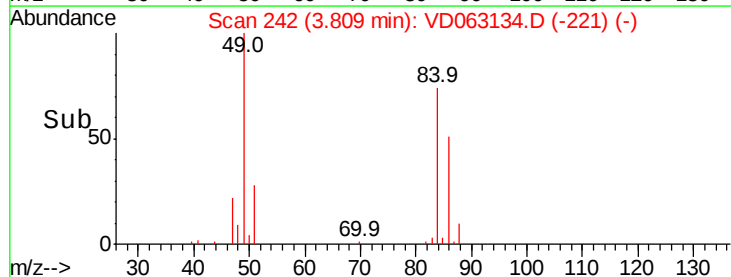
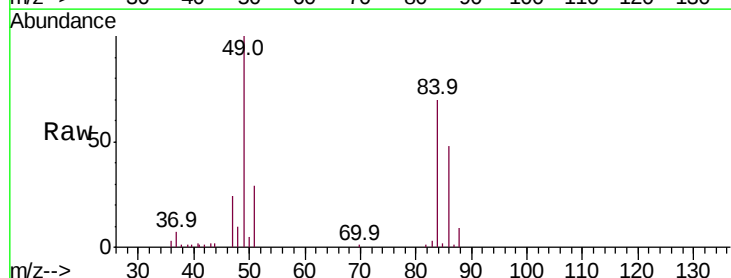
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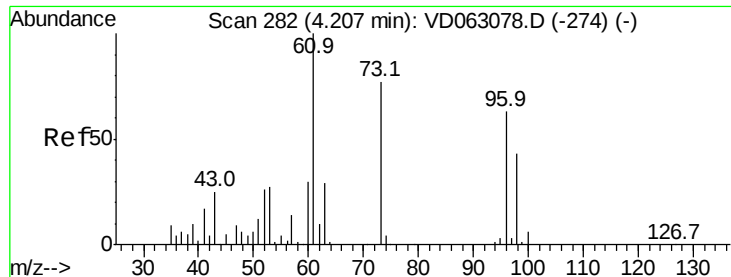
MMDadoda
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#20
Methylene Chloride
Concen: 13.019 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion: 84 Resp: 139602
Ion Ratio Lower Upper
84 100
49 142.3 110.5 165.7
51 40.9 34.6 51.8
86 68.5 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 13.612 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleID :

VD0717SBS01

Tot Ion: 96 Resp: 126115

Ion Ratio Lower Upper

96 100

61 164.6 128.0 192.0

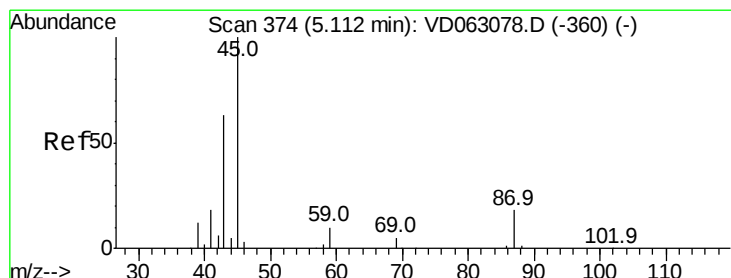
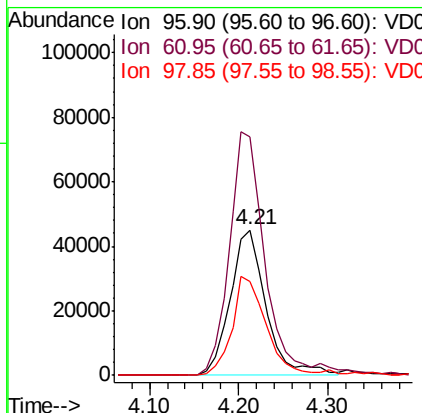
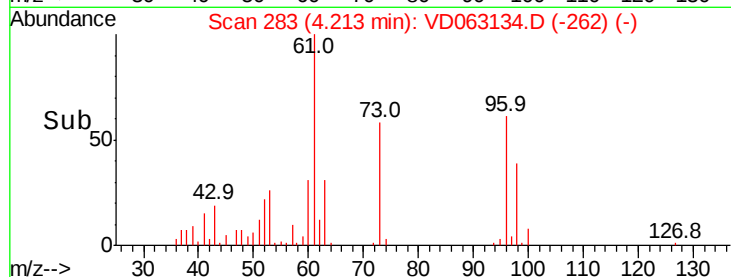
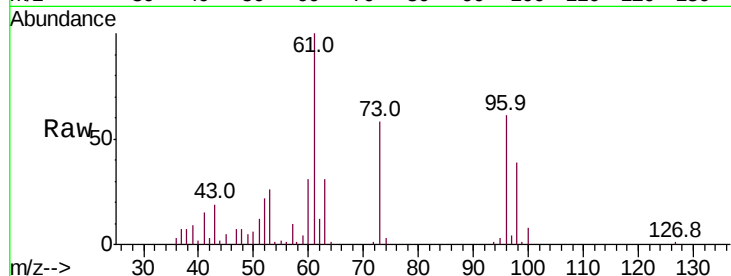
98 64.4 55.2 82.8

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#22

Diisopropyl ether

Concen: 13.957 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion: 45 Resp: 398016

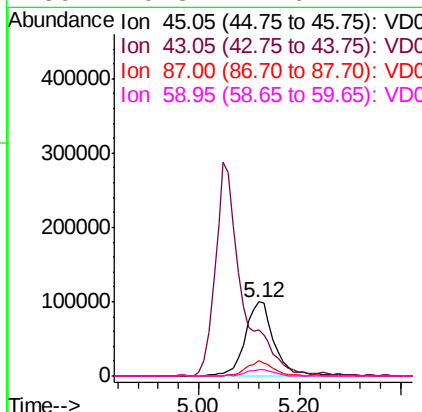
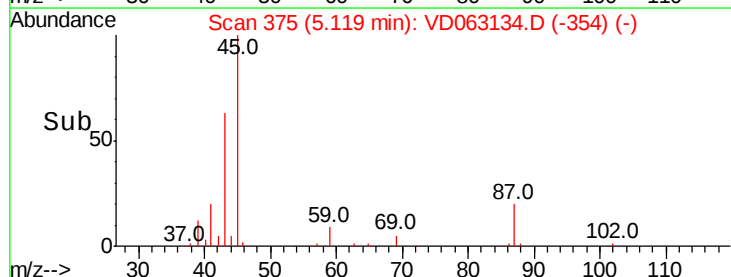
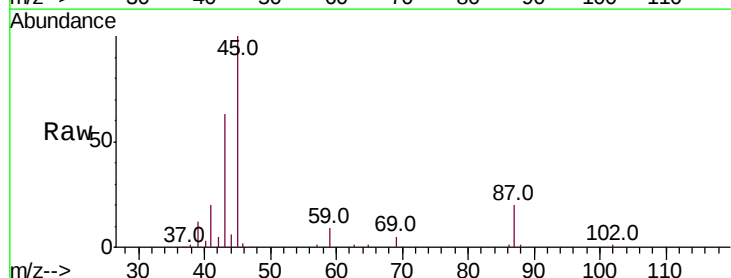
Ion Ratio Lower Upper

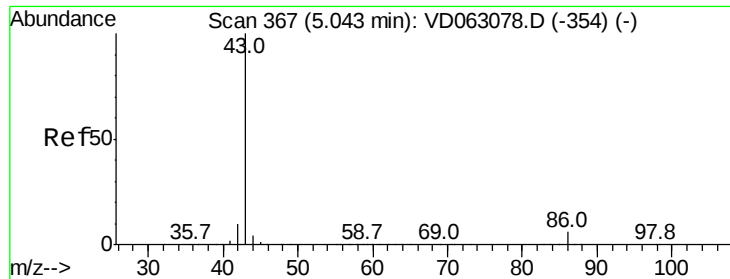
45 100

43 62.9 50.5 75.7

87 20.2 15.1 22.7

59 9.3 7.6 11.4





#23

Vinyl Acetate

Concen: 64.352 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 43 Resp: 1070681

Ion Ratio Lower Upper

43 100

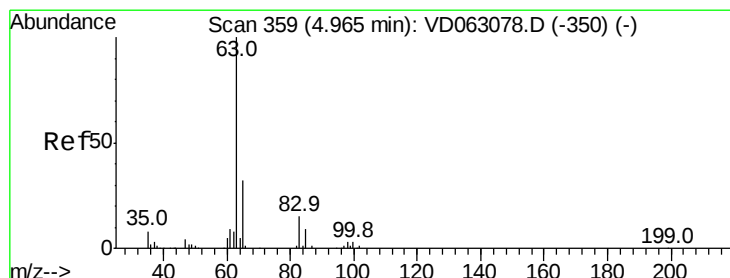
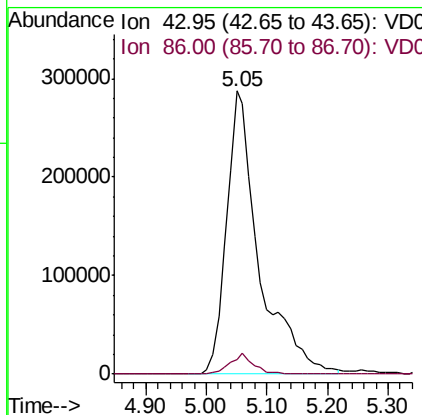
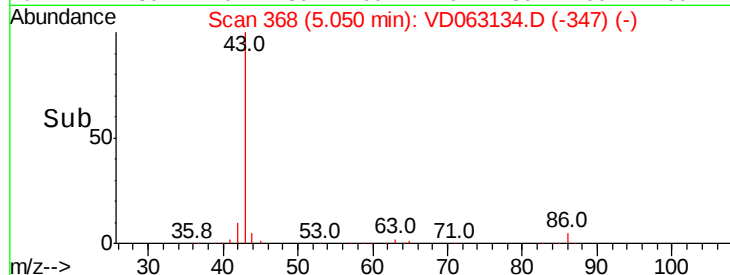
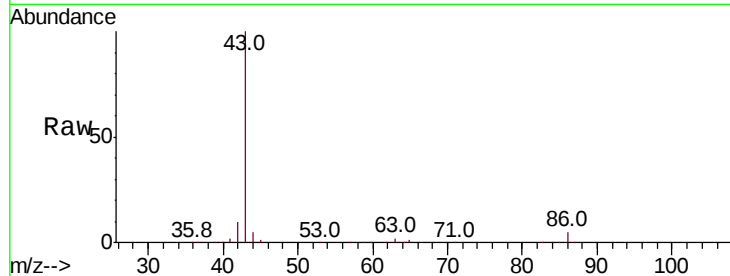
86 4.9 5.0 7.6#

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#24

1,1-Dichloroethane

Concen: 13.707 ug/l

RT: 4.98 min Scan# 361

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

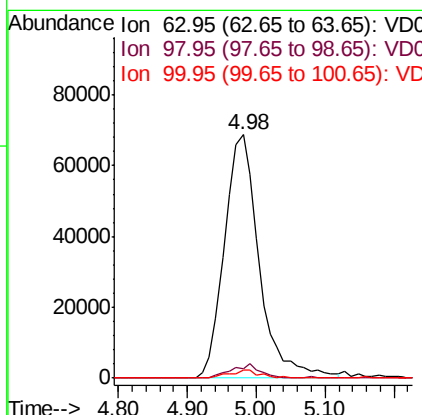
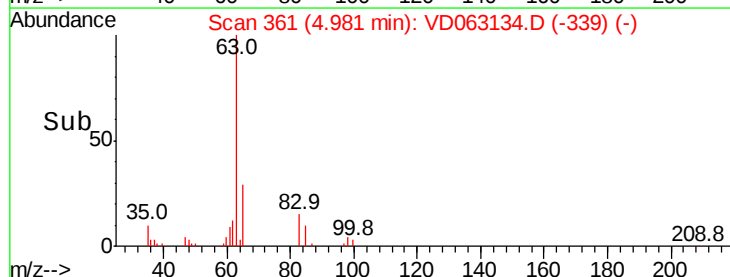
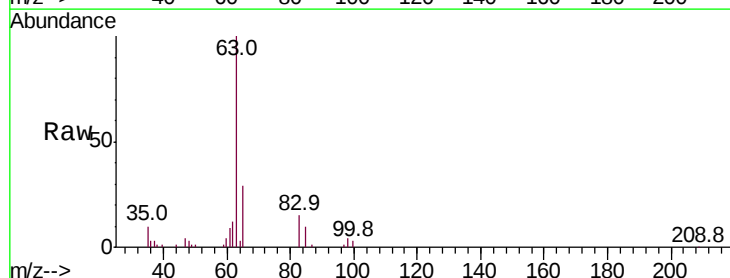
Tgt Ion: 63 Resp: 240784

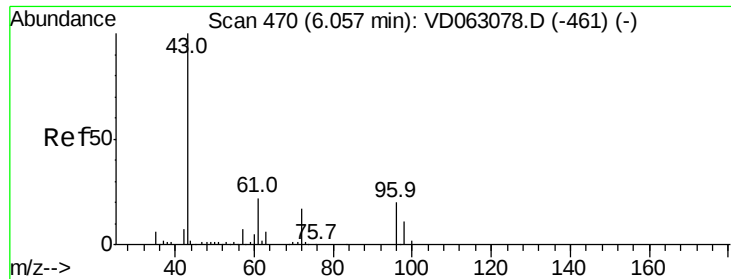
Ion Ratio Lower Upper

63 100

98 3.9 1.7 5.1

100 3.1 1.5 4.5





#25

2-Butanone

Concen: 62.116 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 43 Resp: 168359

Ion Ratio Lower Upper

43 100

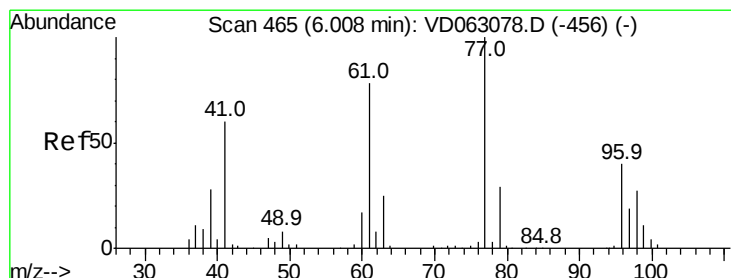
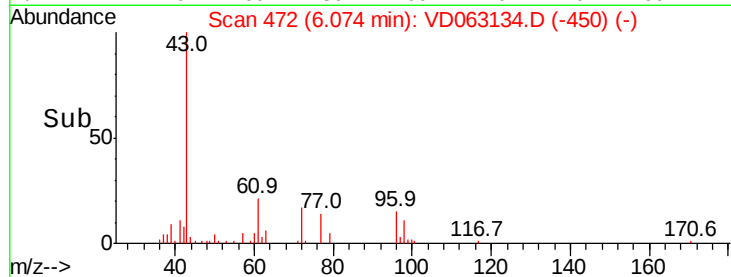
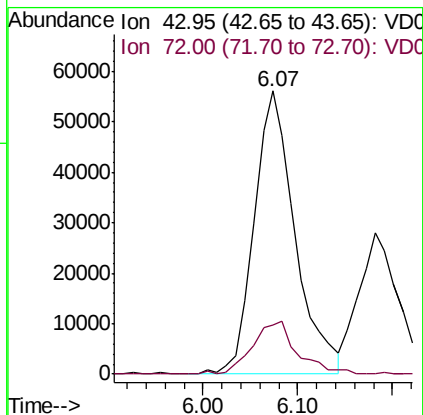
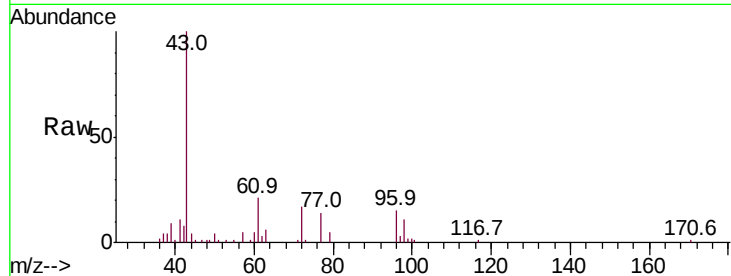
72 17.2 13.4 20.0

Manual Integrations

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7/18/2019 10:01:31 AM



#26

2,2-Dichloropropane

Concen: 13.309 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD063134.D

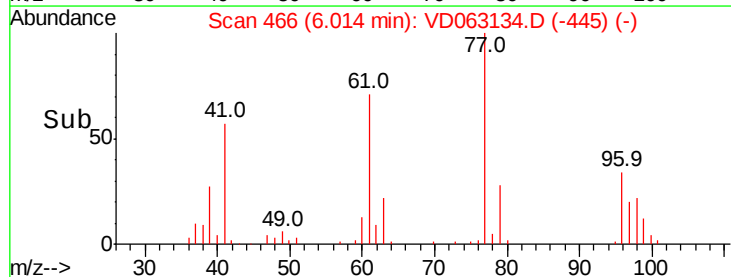
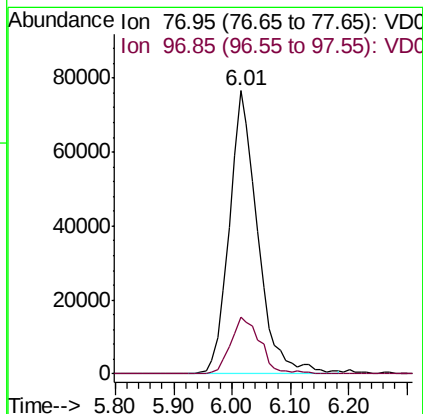
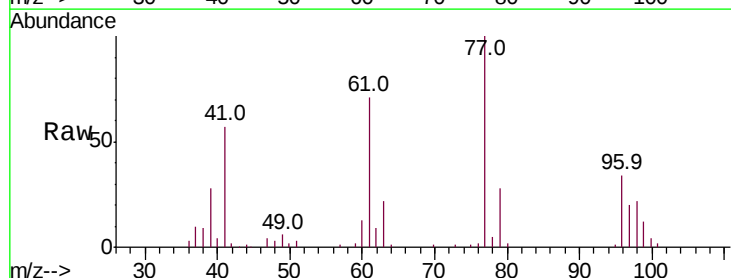
Acq: 17 Jul 2019 16:30

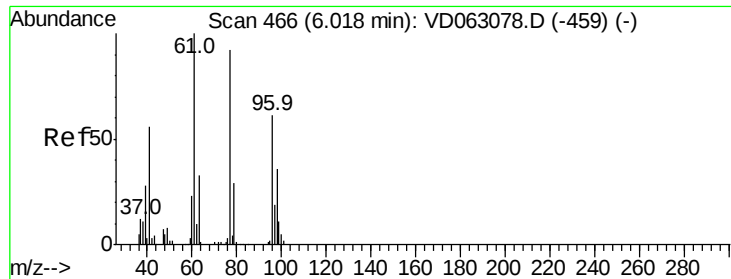
Tgt Ion: 77 Resp: 258747

Ion Ratio Lower Upper

77 100

97 19.9 9.3 27.9





#27

cis-1,2-Dichloroethene

Concen: 13.340 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 96 Resp: 140588

Ion Ratio Lower Upper

96 100

61 162.6 0.0 329.6

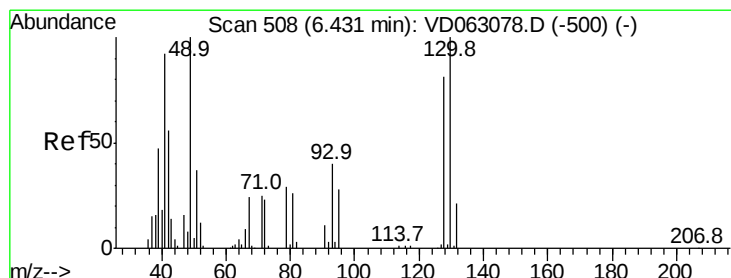
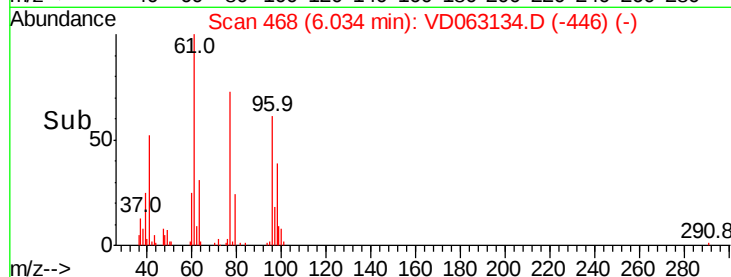
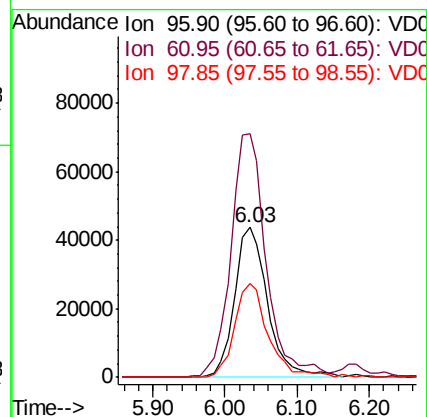
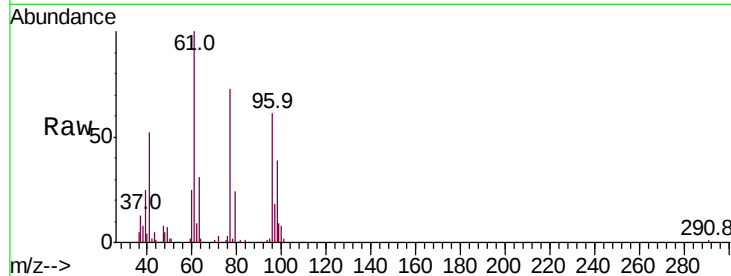
98 62.8 0.0 118.4

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#28

Bromochloromethane

Concen: 14.301 ug/l

RT: 6.43 min Scan# 508

Delta R.T. -0.00 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

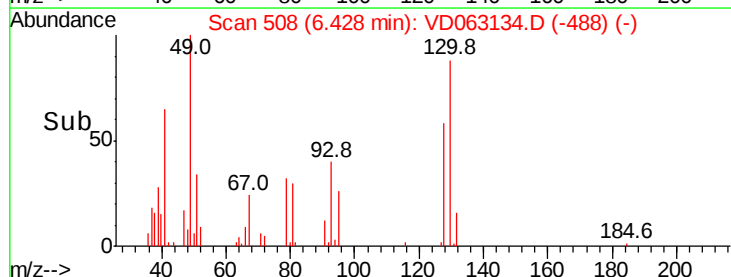
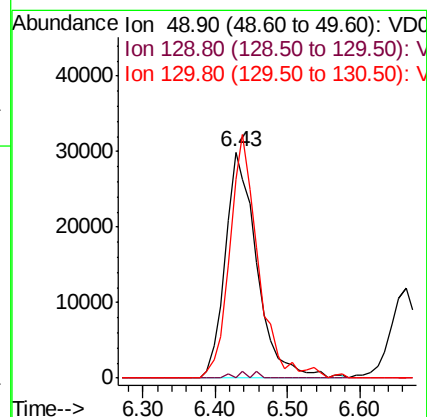
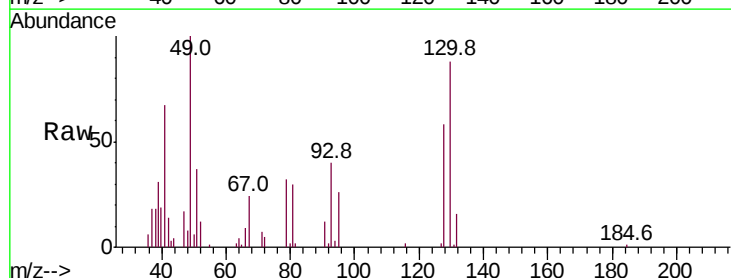
Tgt Ion: 49 Resp: 91142

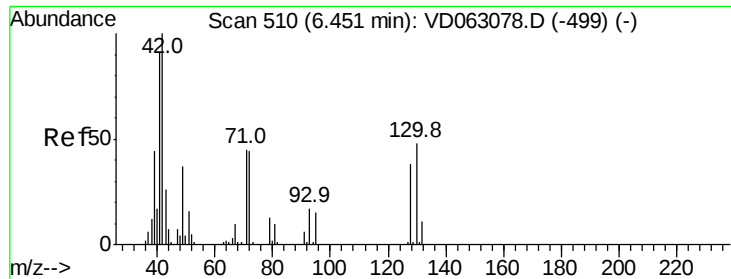
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 88.3 80.3 120.5





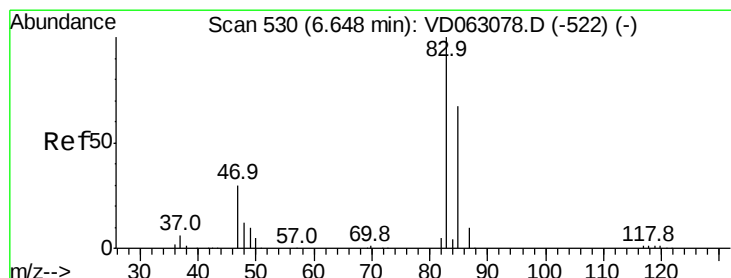
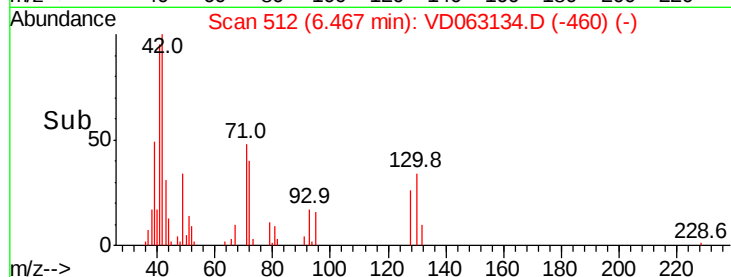
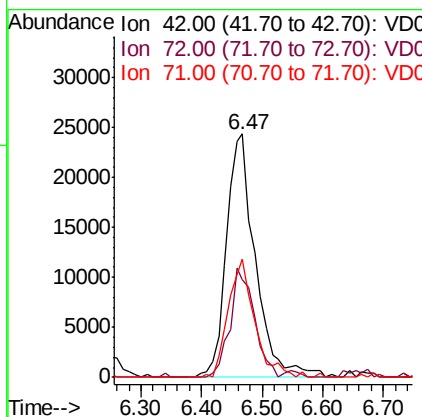
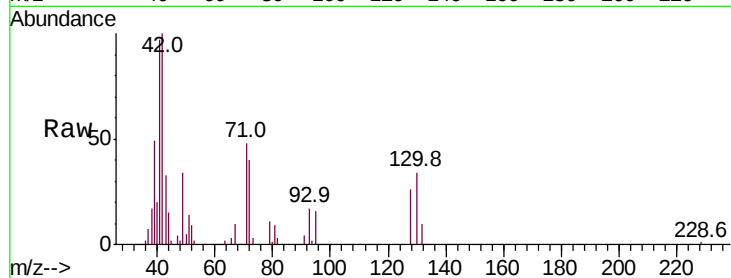
#29
Tetrahydrofuran
Concen: 65.637 ug/l
RT: 6.47 min Scan# 512
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	33.7	50.5
71	43.8	34.2	51.2

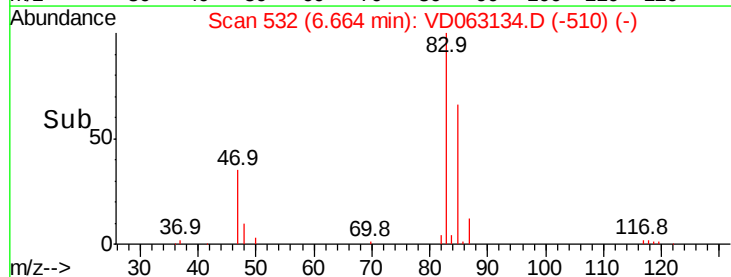
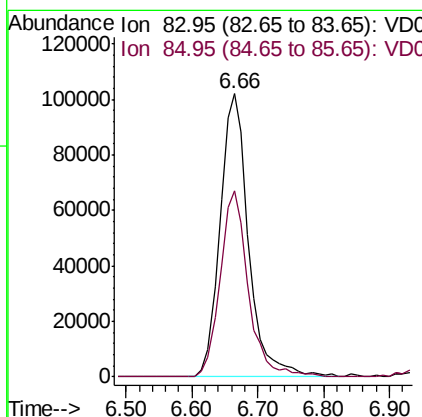
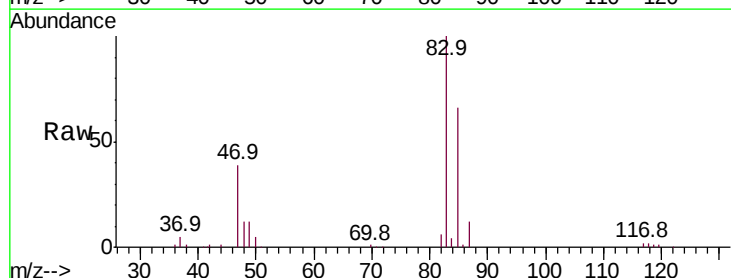
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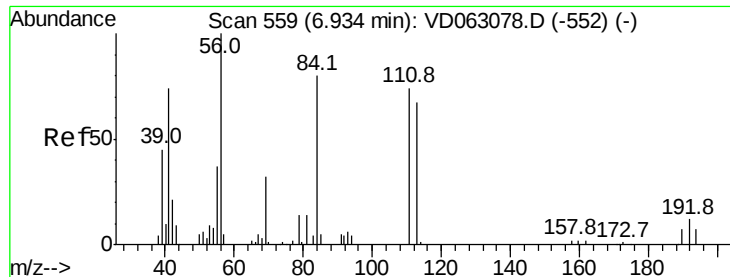
MMDadoda
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#30
Chloroform
Concen: 14.177 ug/l
RT: 6.66 min Scan# 532
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	53.8	80.8





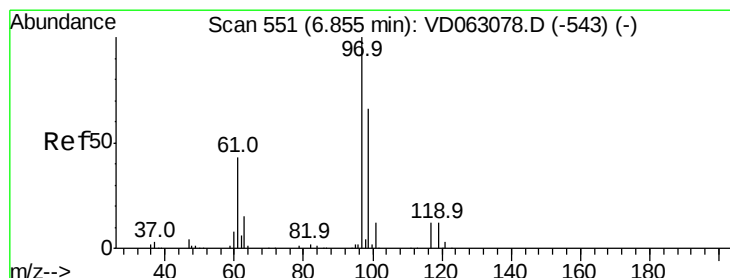
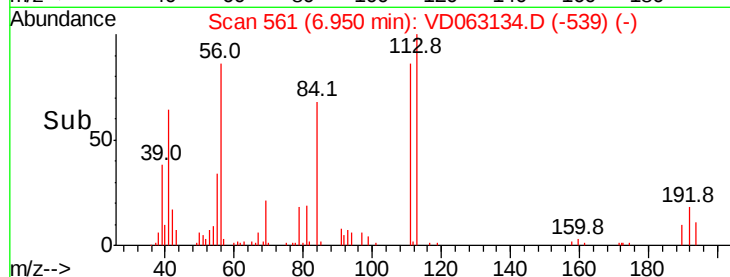
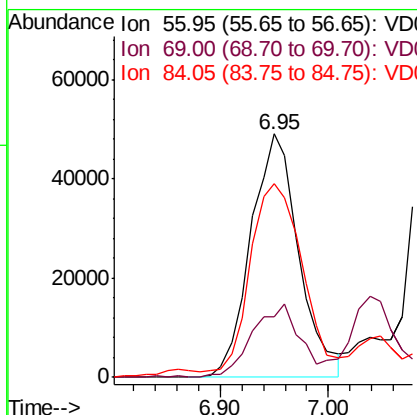
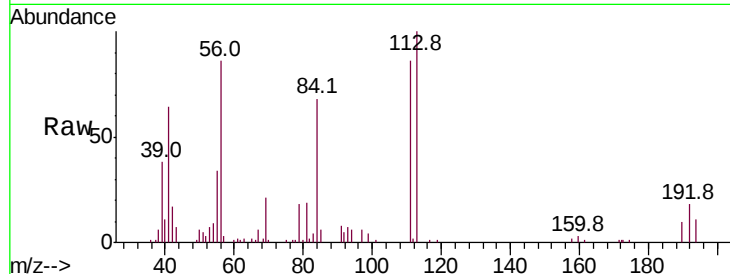
#31
Cyclohexane
Concen: 13.500 ug/l
RT: 6.95 min Scan# 561
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion: 56 Resp: 151026
Ion Ratio Lower Upper
56 100
69 24.9 25.3 37.9#
84 79.5 64.2 96.4

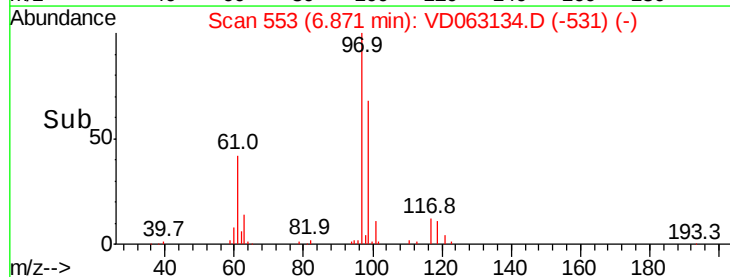
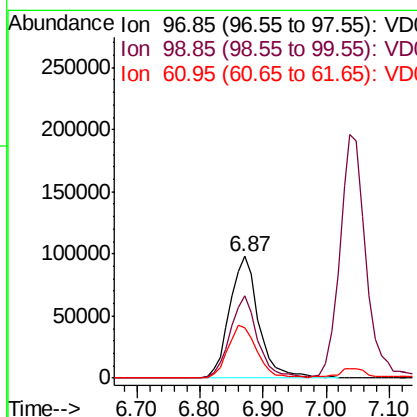
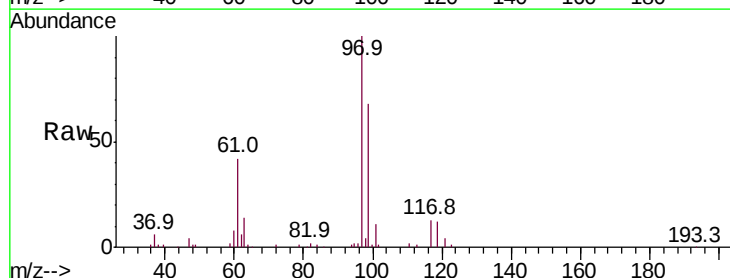
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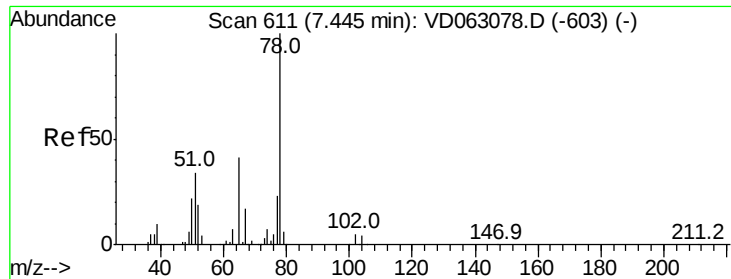
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#32
1,1,1-Trichloroethane
Concen: 14.581 ug/l
RT: 6.87 min Scan# 553
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion: 97 Resp: 311066
Ion Ratio Lower Upper
97 100
99 67.7 52.9 79.3
61 41.9 34.4 51.6





#33

1,2-Dichloroethane-d4

Concen: 32.885 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 65 Resp: 386447

Ion Ratio Lower Upper

65 100

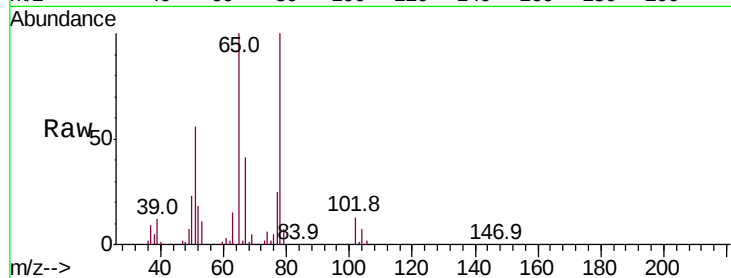
67 41.4 0.0 86.0

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

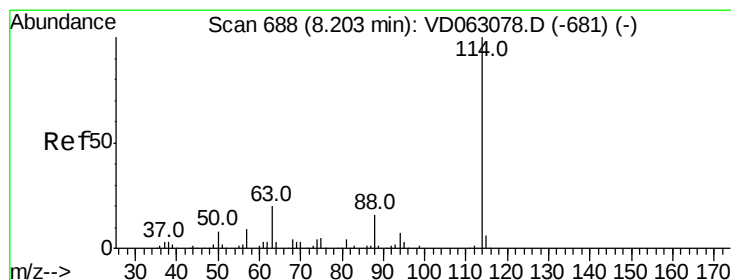
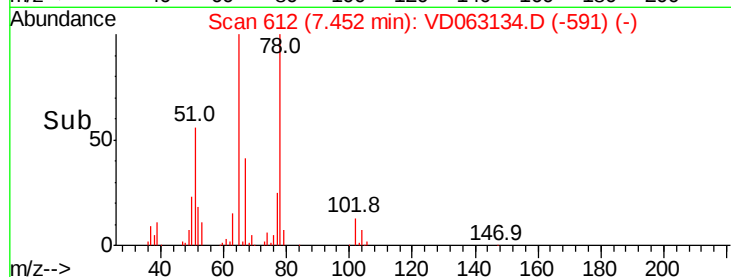
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

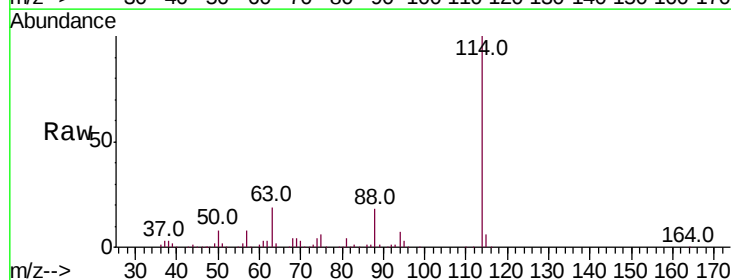
Tgt Ion: 114 Resp: 1305029

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.6

88 17.8 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

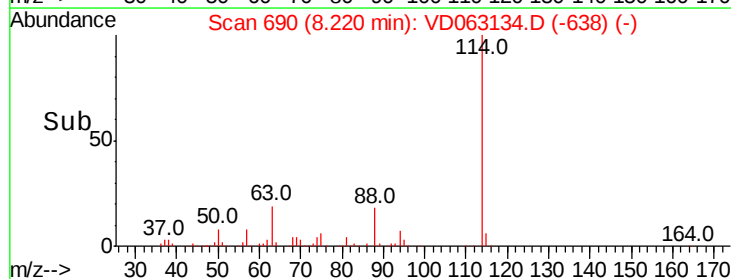
600000

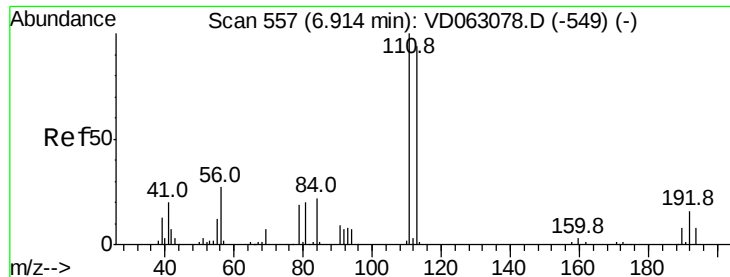
400000

200000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 35.759 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

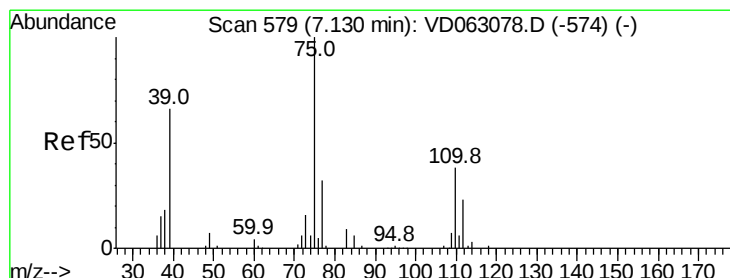
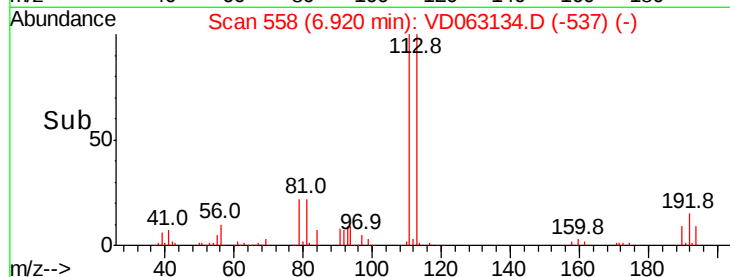
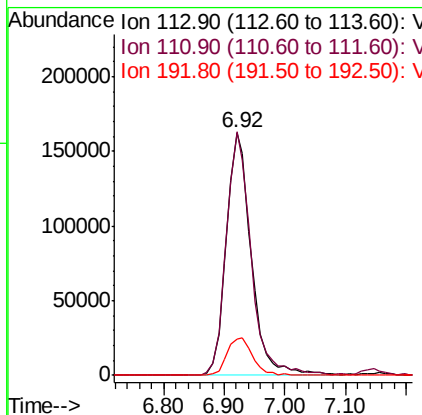
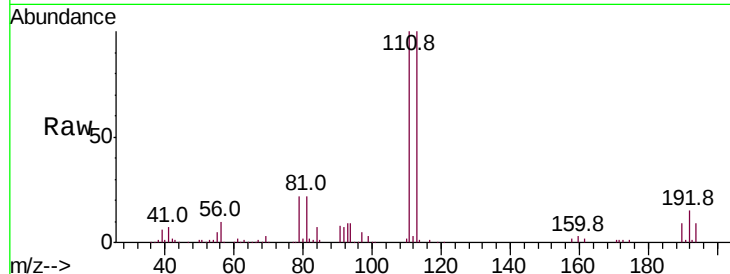
ClientSampleId :

VD0717SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	464816		
111	100.4	84.8	127.2	
192	15.2	13.4	20.0	

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#36

1,1-Dichloropropene

Concen: 12.862 ug/l

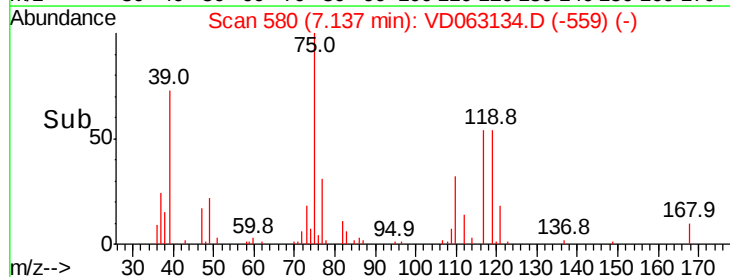
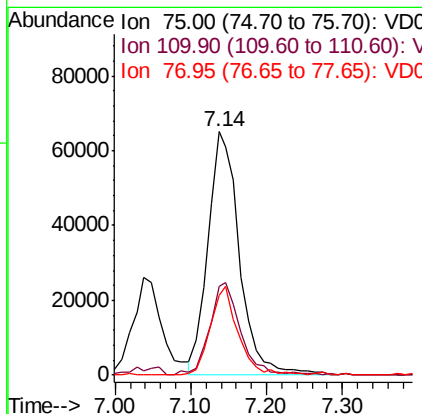
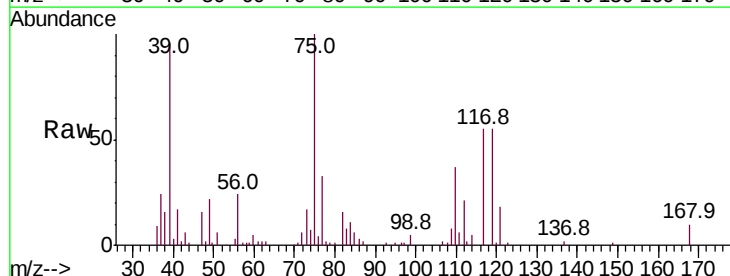
RT: 7.14 min Scan# 580

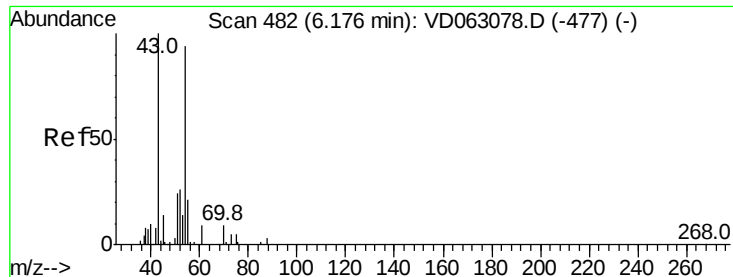
Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	188785		
110	36.5	18.9	56.5	
77	32.9	25.2	37.8	





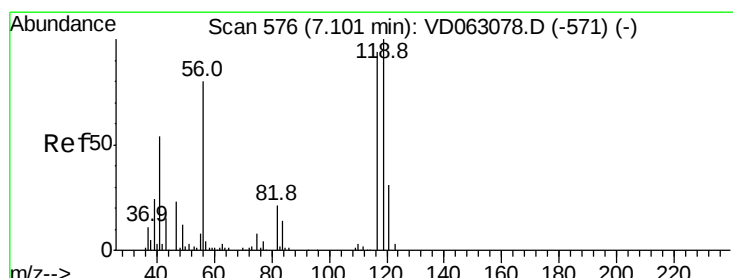
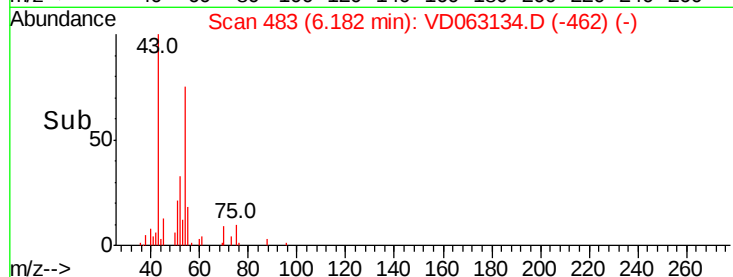
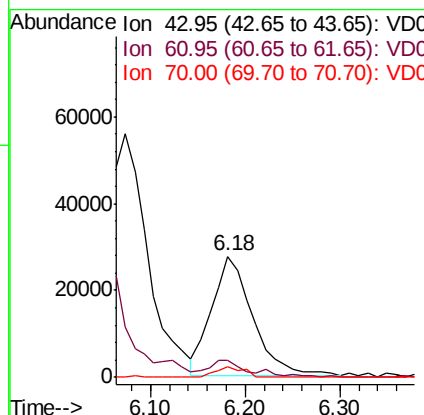
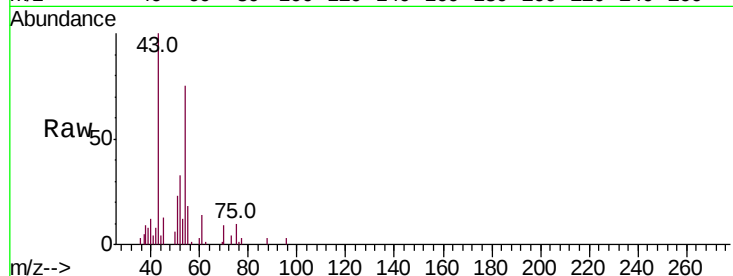
#37
Ethyl Acetate
Concen: 13.242 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleID :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.6	16.0
70	8.6	6.6	9.8

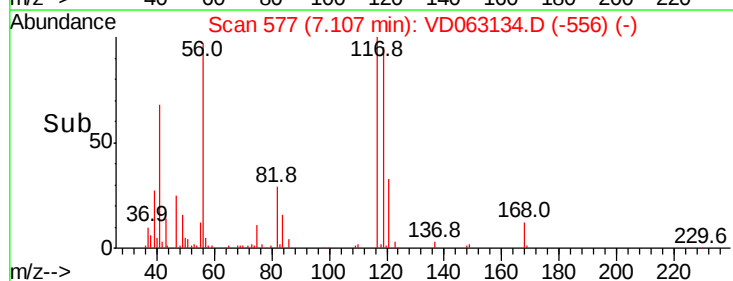
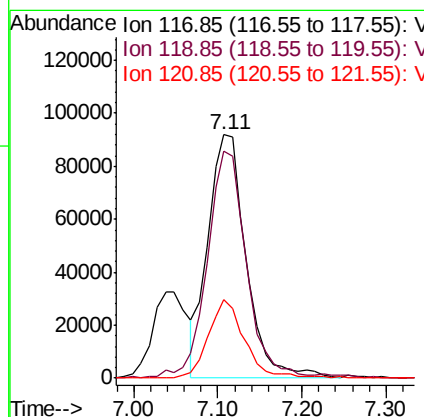
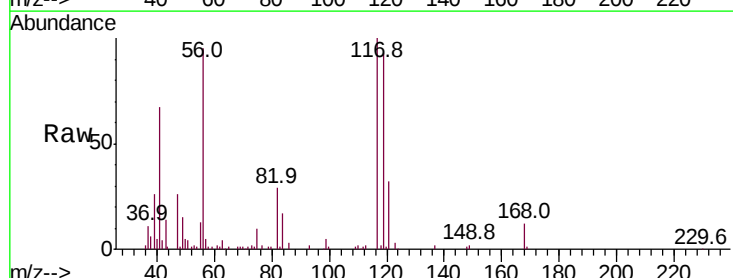
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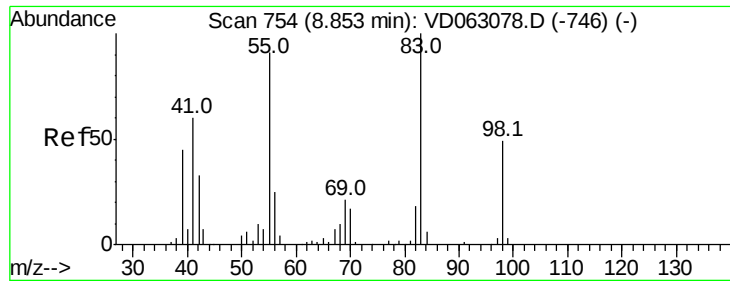
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#38
Carbon Tetrachloride
Concen: 12.873 ug/l
RT: 7.11 min Scan# 577
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	80.0	120.0
121	32.4	25.0	37.4





#39

Methvlcvclohexane

Concen: 12.809 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

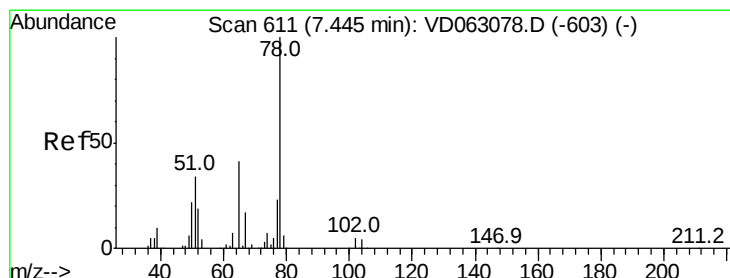
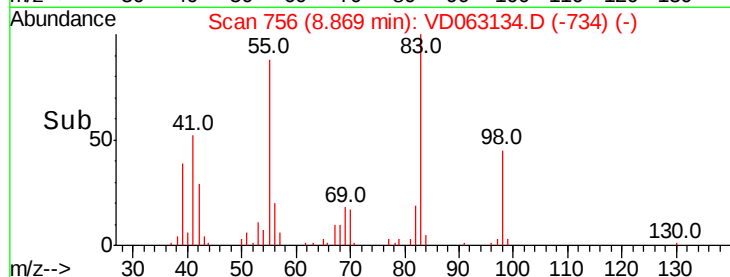
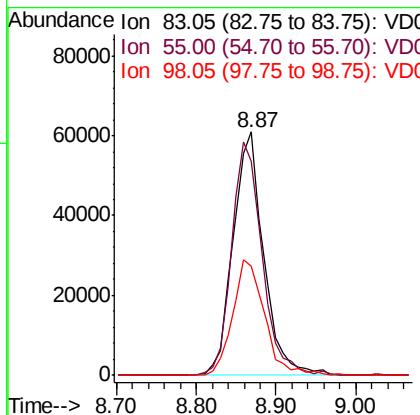
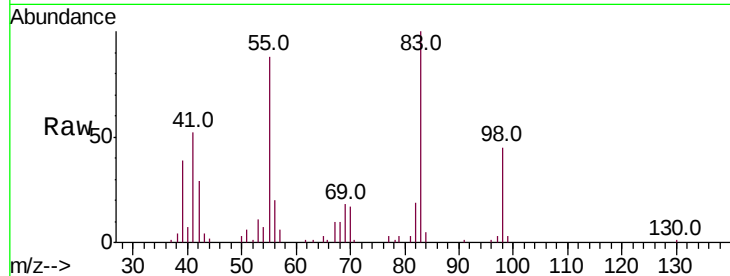
ClientSampleId :

VD0717SBS01

Tot Ion:	83	Resp:	162530
Ion	Ratio	Lower	Upper
83	100		
55	88.0	73.0	109.4
98	44.6	39.4	59.0

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#40

Benzene

Concen: 12.853 ug/l

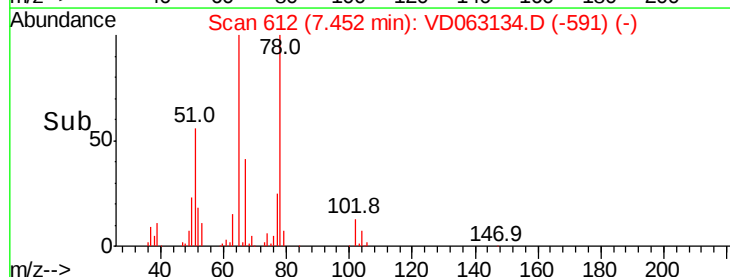
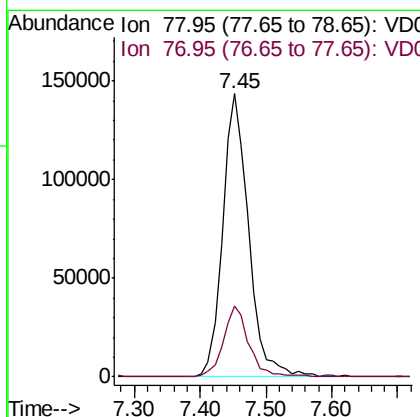
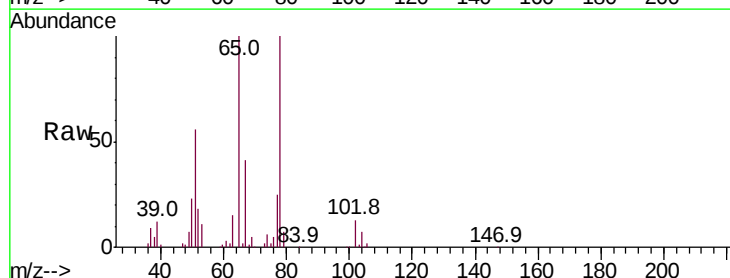
RT: 7.45 min Scan# 612

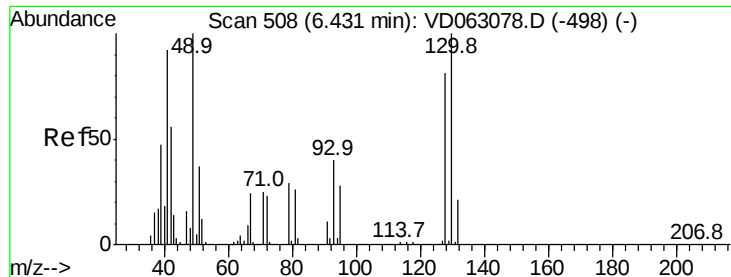
Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion:	78	Resp:	395100
Ion	Ratio	Lower	Upper
78	100		
77	25.1	18.1	27.1





#41

Methacrylonitrile

Concen: 12.489 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 41 Resp: 106358

Ion Ratio Lower Upper

41 100

39 64.9 41.0 61.6#

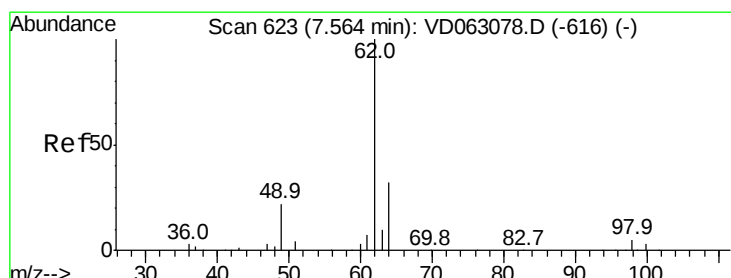
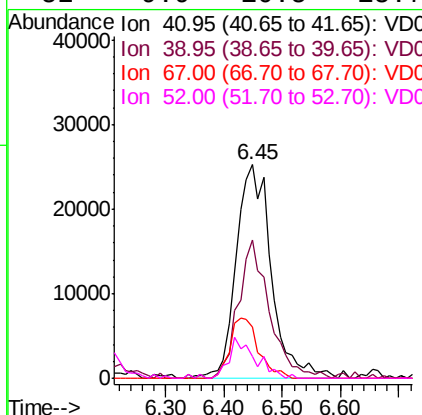
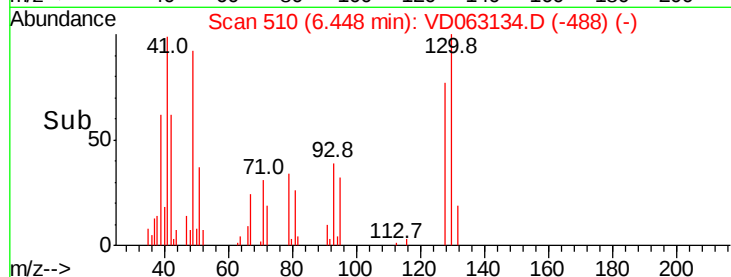
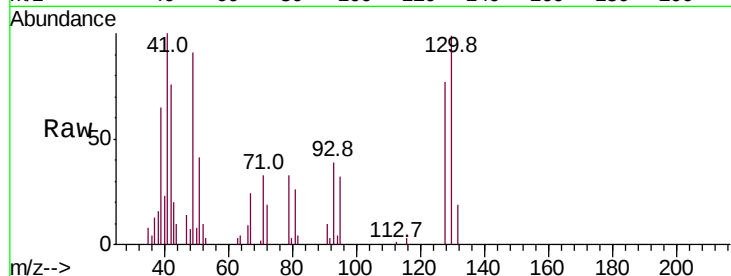
67 23.8 21.3 31.9

52 9.9 10.5 15.7#

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#42

1,2-Dichloroethane

Concen: 14.035 ug/l

RT: 7.58 min Scan# 625

Delta R.T. 0.02 min

Lab File: VD063134.D

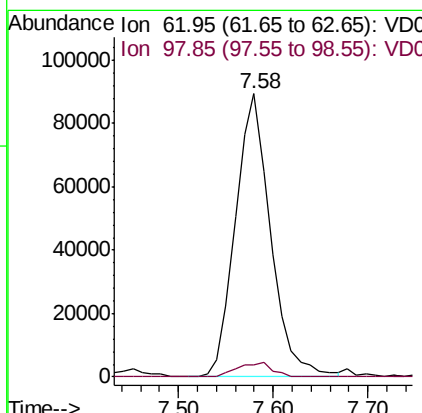
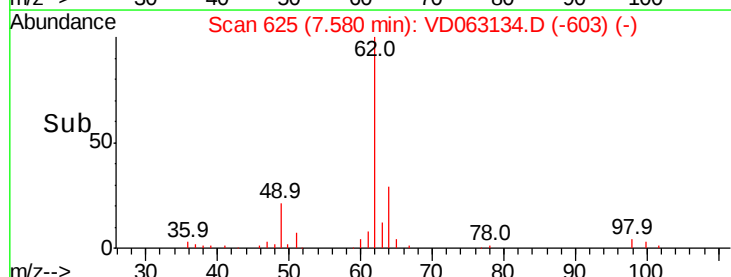
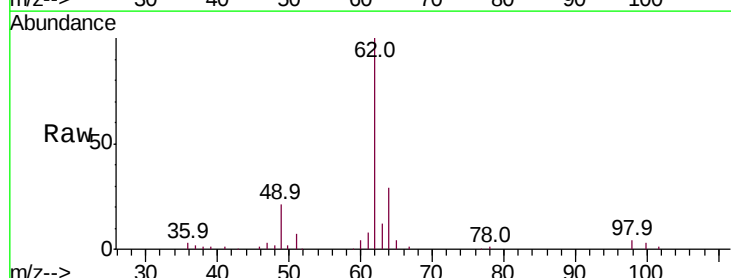
Acq: 17 Jul 2019 16:30

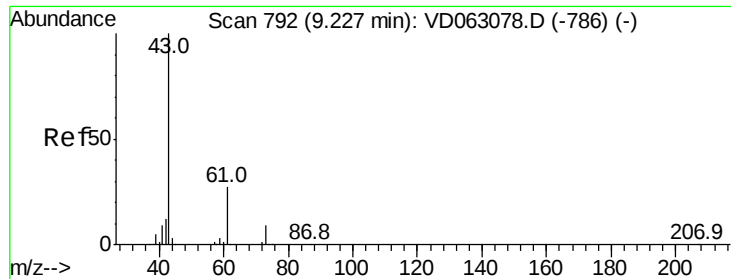
Tgt Ion: 62 Resp: 229854

Ion Ratio Lower Upper

62 100

98 4.2 0.0 9.6





#43

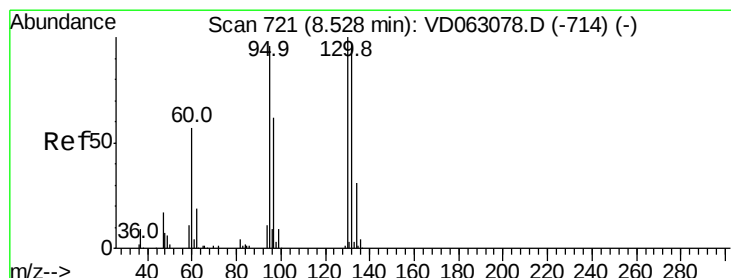
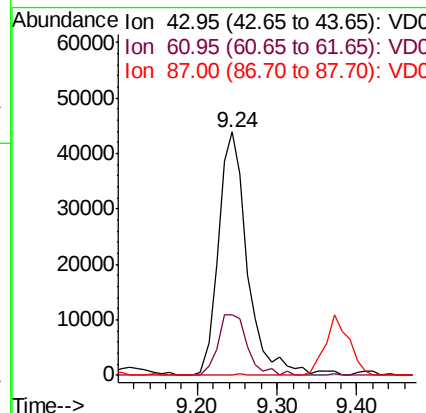
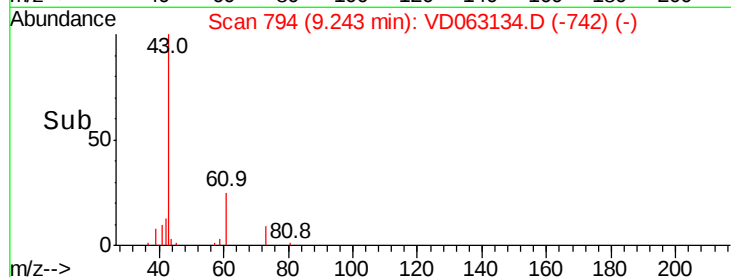
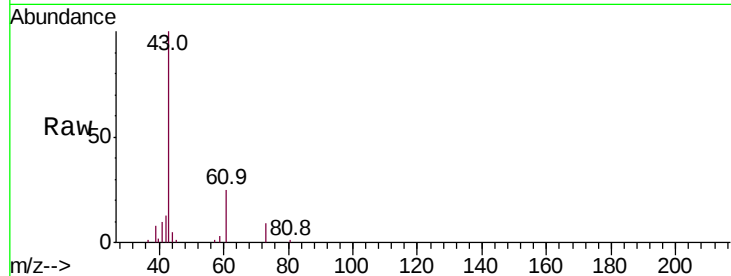
Isopropyl Acetate
 Concen: 12.481 ug/l
 RT: 9.24 min Scan# 794
 Delta R.T. 0.02 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	24.9	21.7	32.5
87	0.0	0.2	0.4

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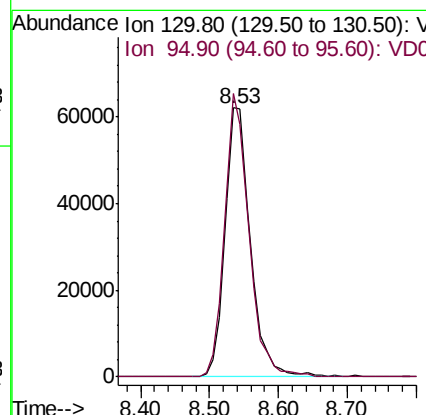
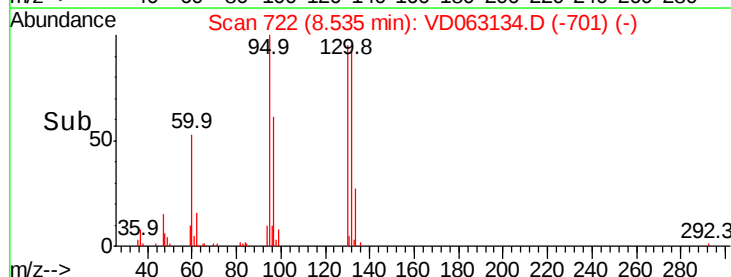
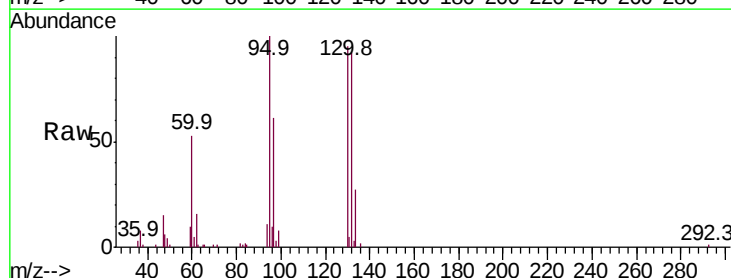
MMDadoda
 7/18/2019 10:01:31 AM

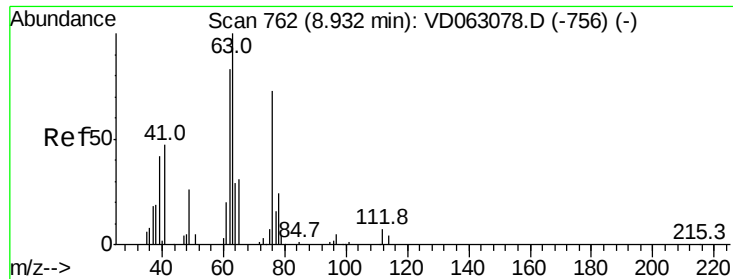


#44

Trichloroethene
 Concen: 13.349 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	191.4





#45

1,2-Dichloropropane

Concen: 12.791 ug/l

RT: 8.94 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 63 Resp: 98030

Ion Ratio Lower Upper

63 100

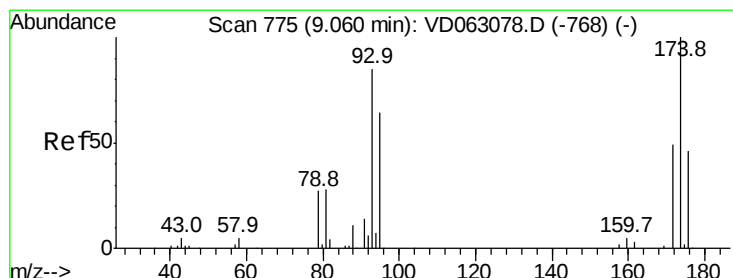
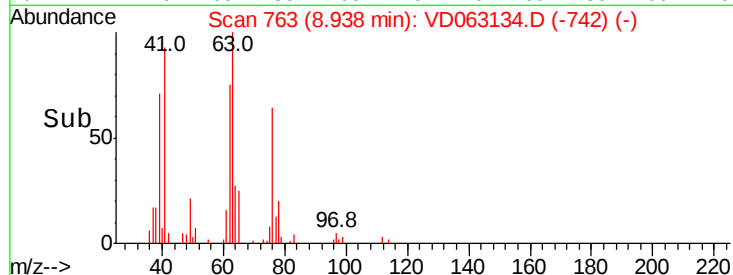
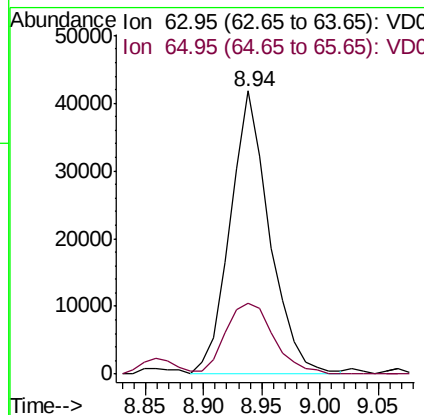
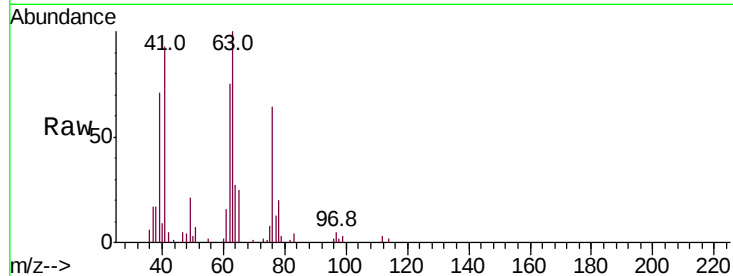
65 25.2 26.3 39.5#

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#46

Dibromomethane

Concen: 13.584 ug/l

RT: 9.07 min Scan# 776

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

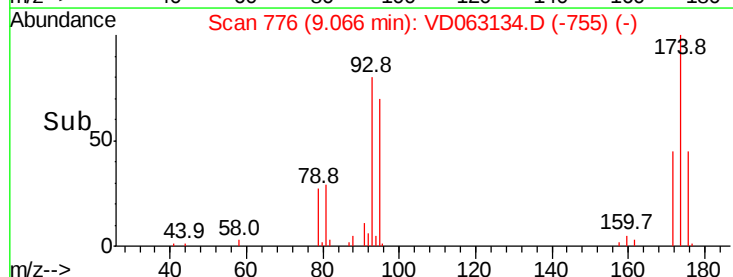
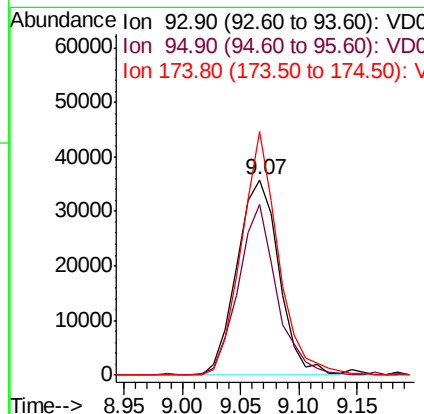
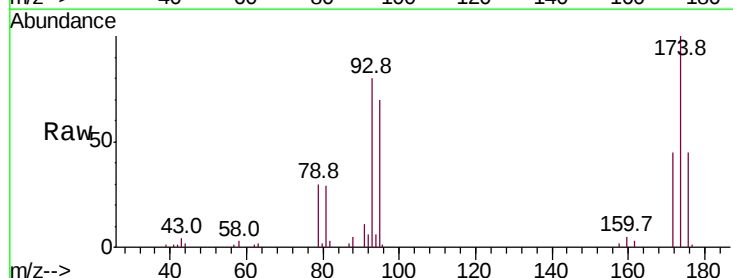
Tgt Ion: 93 Resp: 89468

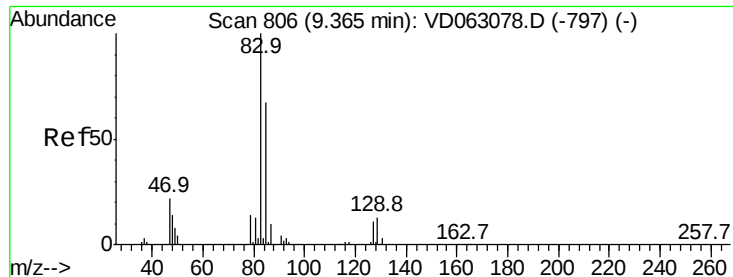
Ion Ratio Lower Upper

93 100

95 87.2 59.7 89.5

174 124.6 93.9 140.9





#47

Bromodichloromethane

Concen: 13.632 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

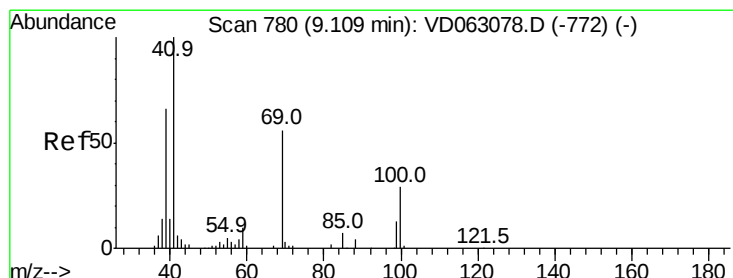
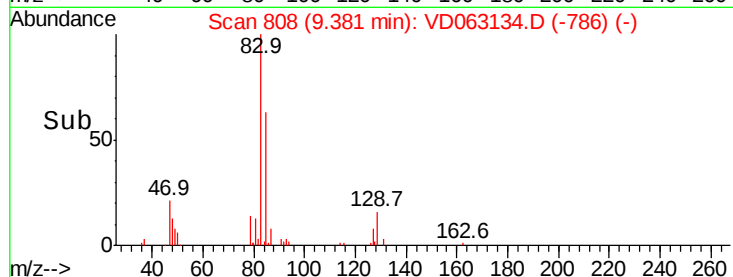
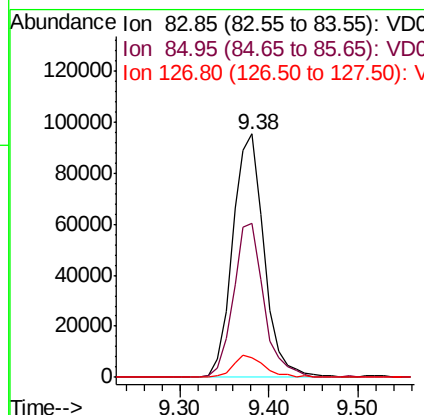
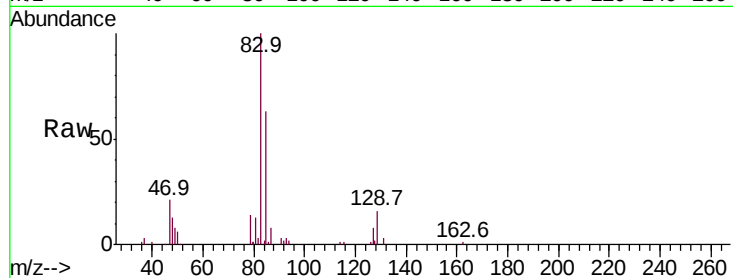
ClientSampleId :

VD0717SBS01

Tot Ion:	83	Resp:	234291
Ion Ratio	Lower	Upper	
83	100		
85	63.1	53.7	80.5
127	8.3	9.0	13.6#

Manual Integrations
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#48

Methyl methacrylate

Concen: 12.145 ug/l

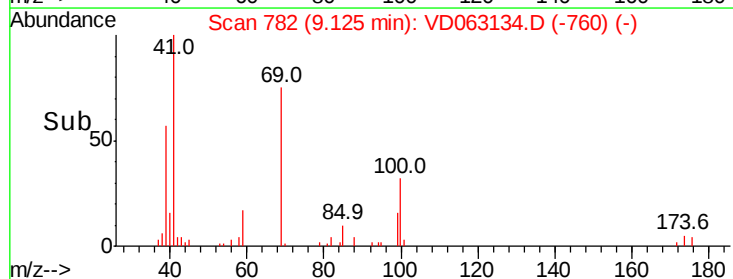
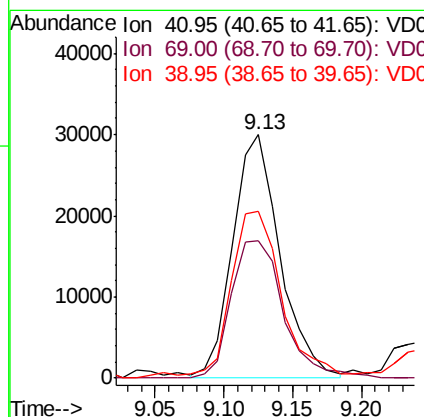
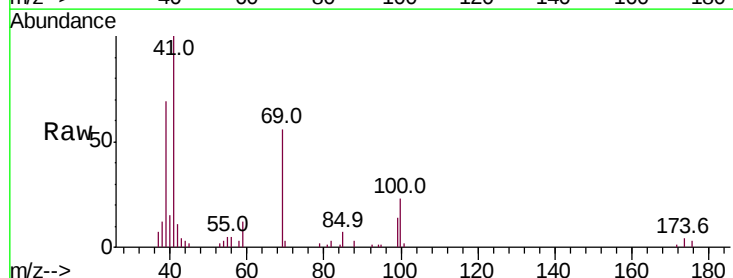
RT: 9.13 min Scan# 782

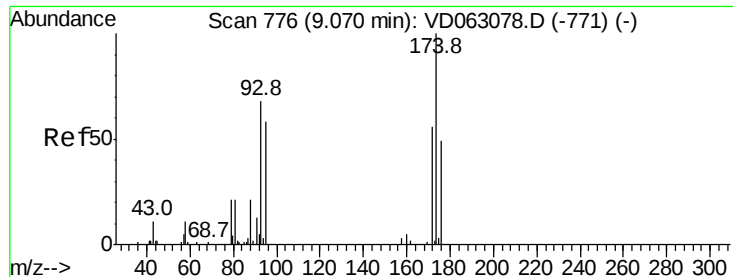
Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion:	41	Resp:	71809
Ion Ratio	Lower	Upper	
41	100		
69	56.4	44.3	66.5
39	68.6	52.6	78.8





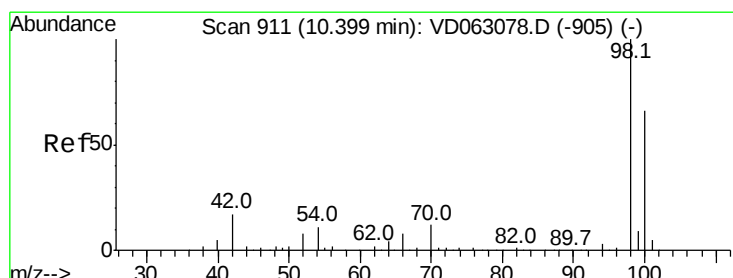
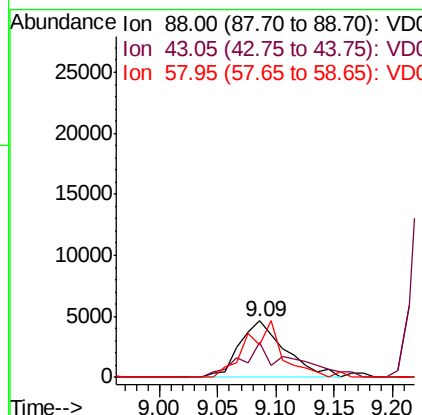
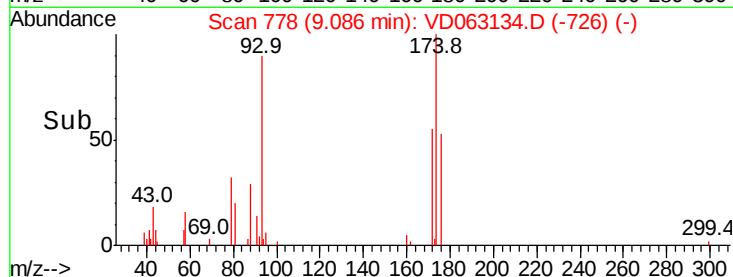
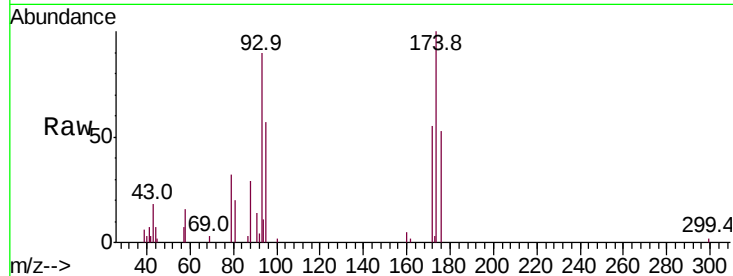
#49
1,4-Dioxane
Concen: 247.567 ug/l
RT: 9.09 min Scan# 778
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	61.8	40.2	60.4#
58	56.4	41.6	62.4

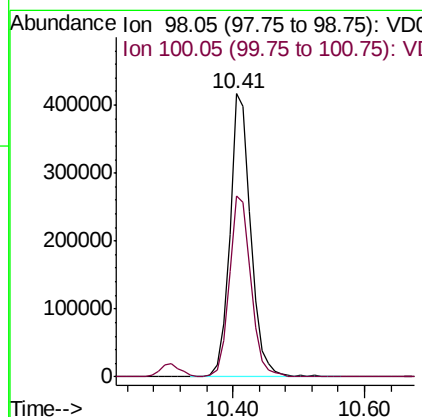
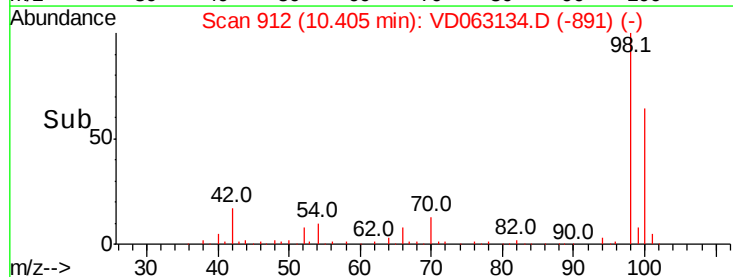
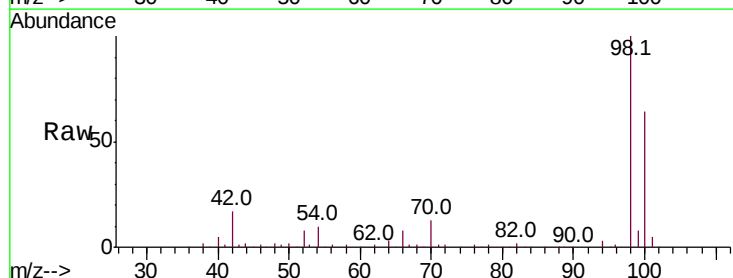
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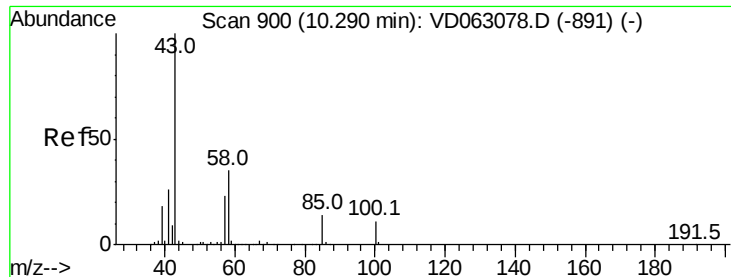
MMDadoda
7/18/2019 10:01:31 AM



#50
Toluene-d8
Concen: 33.049 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	53.5	80.3





#51

4-Methyl-2-Pentanone

Concen: 66.596 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 43 Resp: 397693

Ion Ratio Lower Upper

43 100

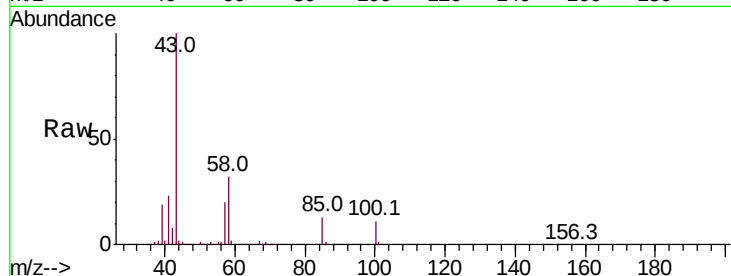
58 31.8 27.8 41.6

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

200000

150000

100000

50000

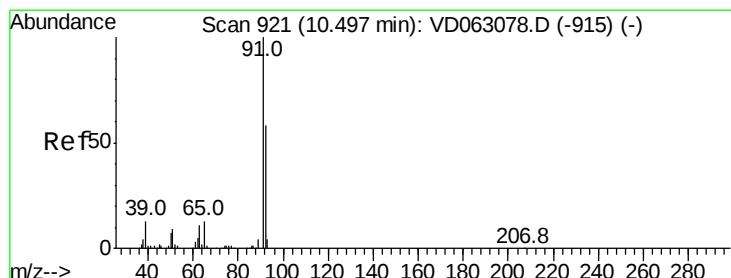
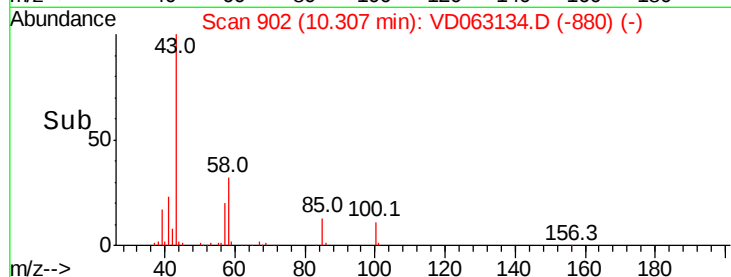
0

10.20

10.30

10.40

Time-->



#52

Toluene

Concen: 13.434 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD063134.D

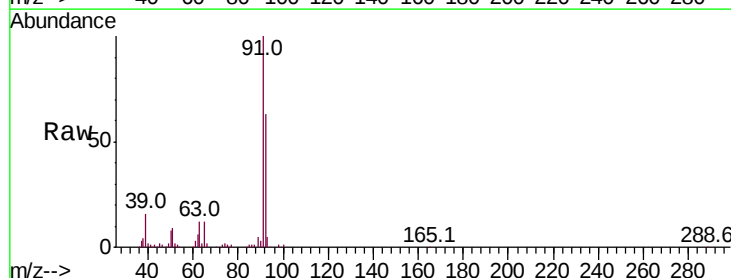
Acq: 17 Jul 2019 16:30

Tgt Ion: 92 Resp: 275762

Ion Ratio Lower Upper

92 100

91 159.3 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

250000

200000

150000

100000

50000

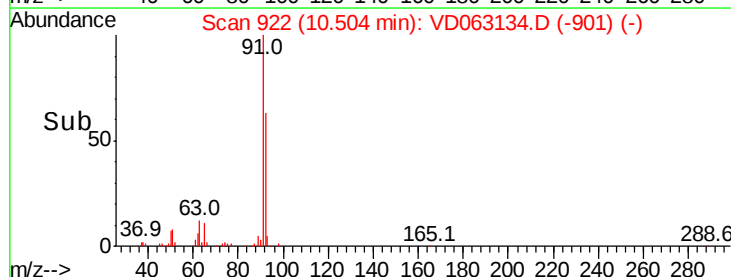
0

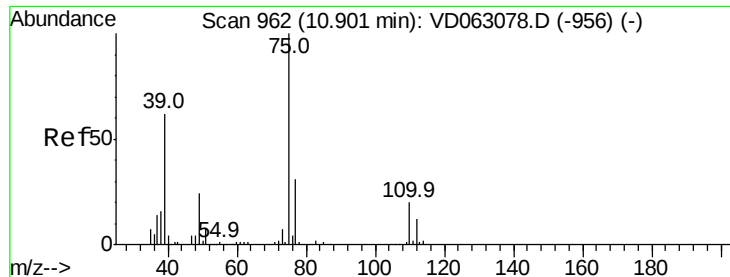
10.40

10.50

10.60

Time-->





#53

t-1,3-Dichloropropene

Concen: 13.231 ug/l

RT: 10.92 min Scan# 964

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 75 Resp: 194825

Ion Ratio Lower Upper

75 100

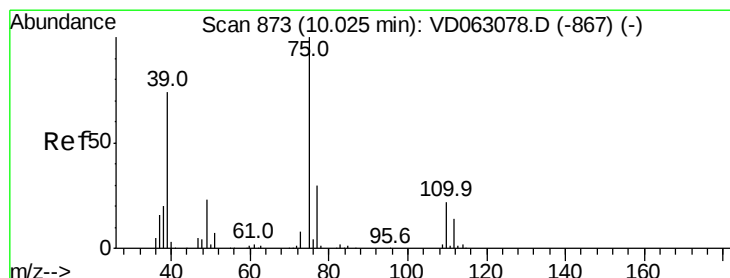
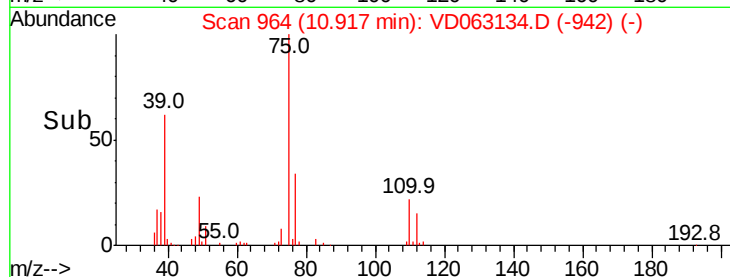
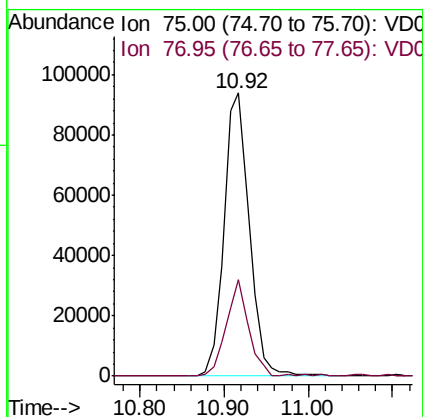
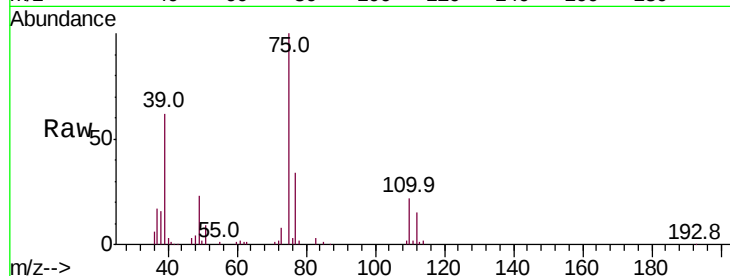
77 34.0 24.9 37.3

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#54

cis-1,3-Dichloropropene

Concen: 12.657 ug/l

RT: 10.04 min Scan# 875

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

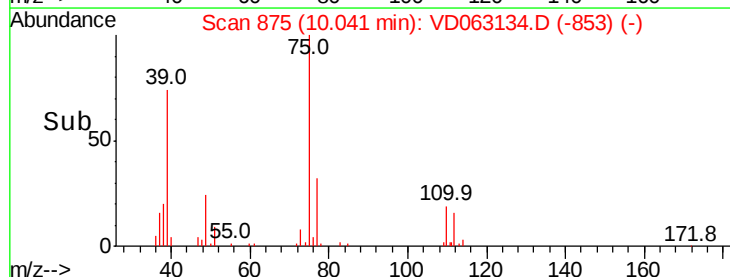
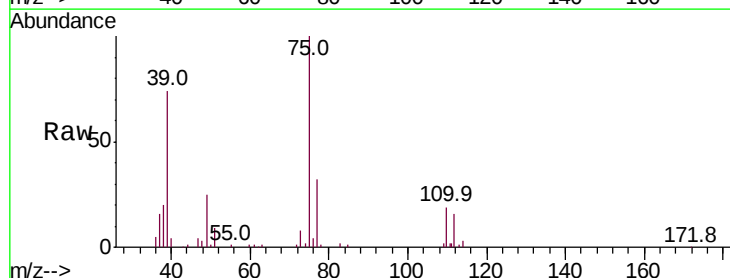
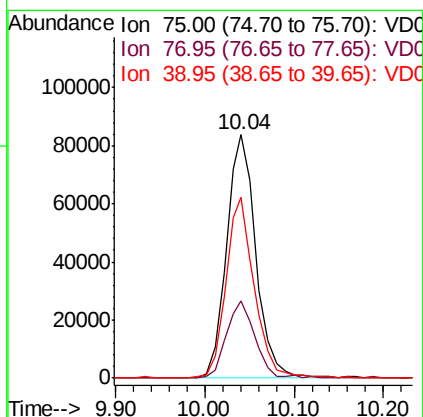
Tgt Ion: 75 Resp: 192709

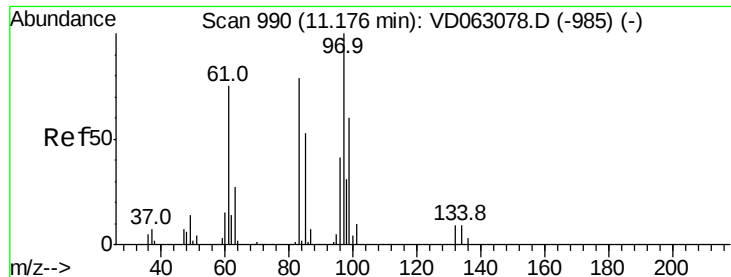
Ion Ratio Lower Upper

75 100

77 31.6 23.9 35.9

39 74.2 59.4 89.0





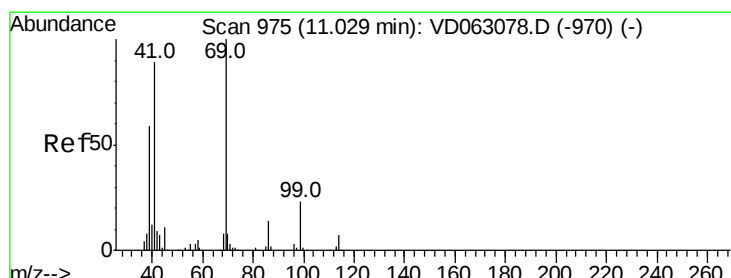
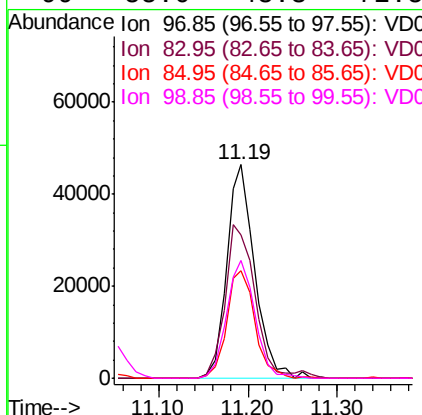
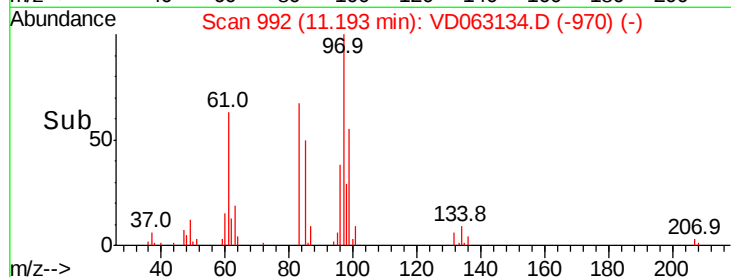
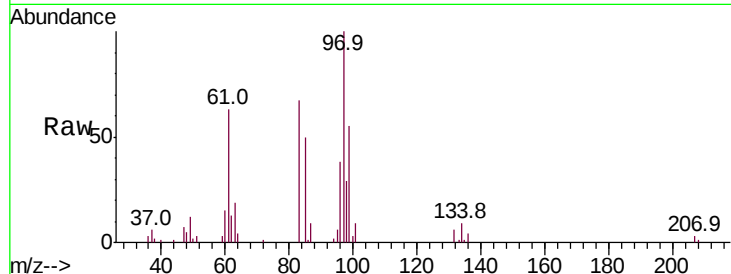
#55
1,1,2-Trichloroethane
Concen: 14.338 ug/l
RT: 11.19 min Scan# 992
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Resp	Lower	Upper
97	100	101717		
83	66.9	63.2	94.8	
85	50.3	42.0	63.0	
99	55.0	48.3	72.5	

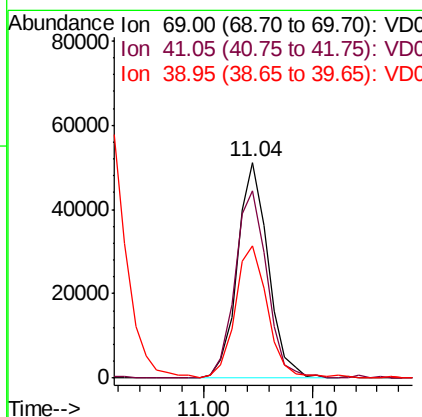
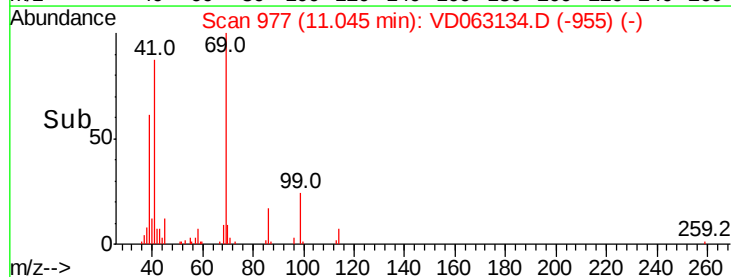
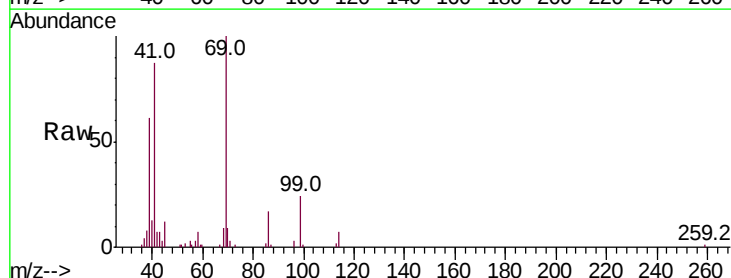
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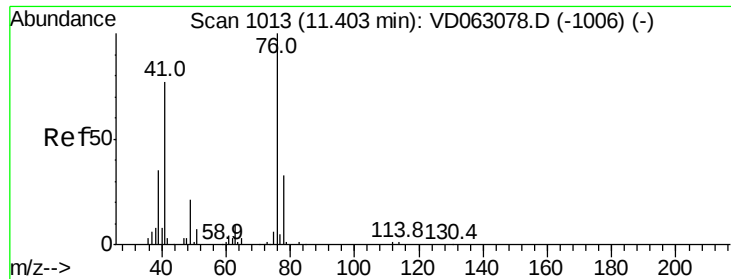
MMDadoda
7/18/2019 10:01:31 AM



#56
Ethyl methacrylate
Concen: 12.774 ug/l
RT: 11.04 min Scan# 977
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	101248		
41	86.5	71.0	106.4	
39	61.2	47.7	71.5	





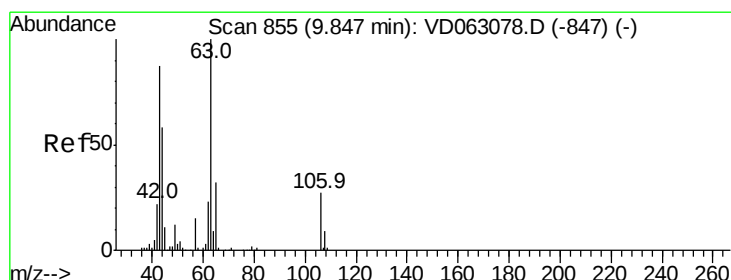
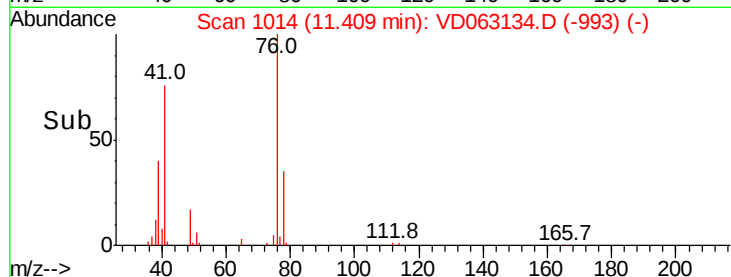
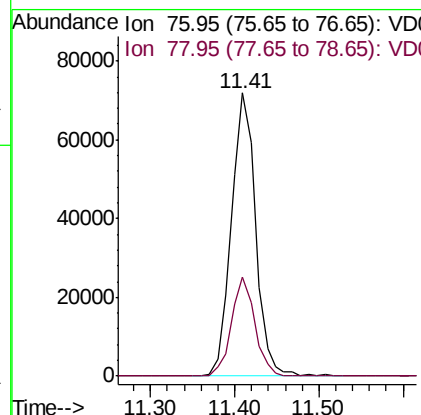
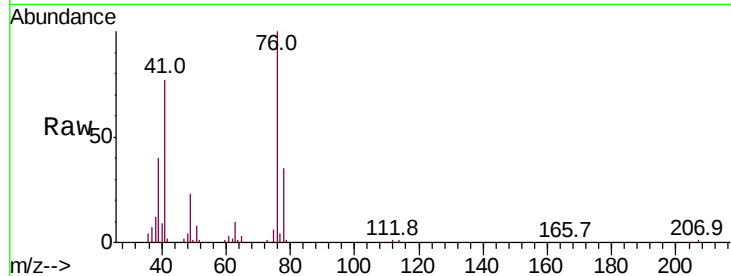
#57
 1,3-Dichloropropane
 Concen: 13.244 ug/l
 RT: 11.41 min Scan# 1014
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS01

Tot Ion: 76 Resp: 142958
 Ion Ratio Lower Upper
 76 100
 78 34.8 26.8 40.2

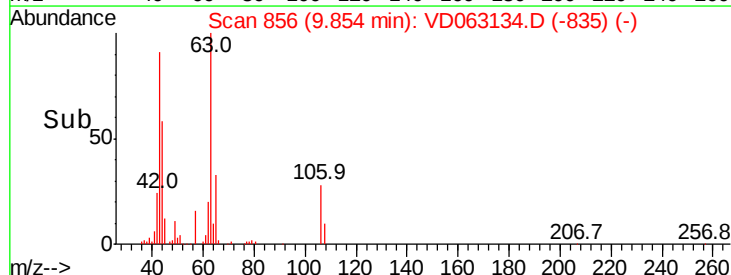
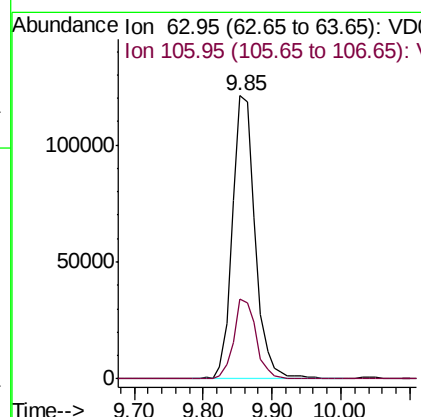
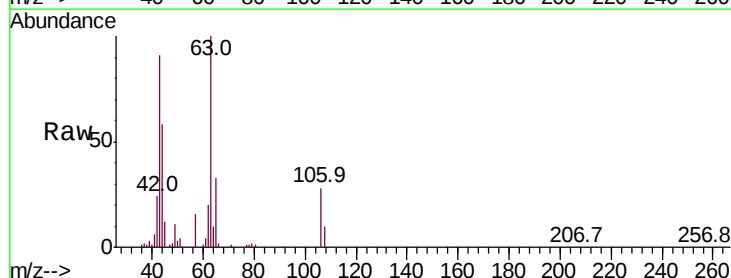
Manual Integrations
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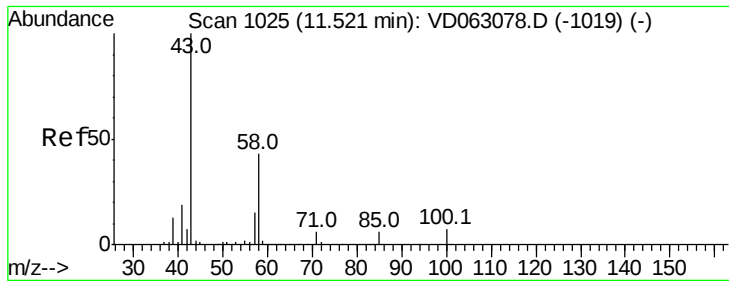
MMDadoda
 7/18/2019 10:01:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 62.449 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Tgt Ion: 63 Resp: 275607
 Ion Ratio Lower Upper
 63 100
 106 28.0 21.3 31.9





#59

2-Hexanone

Concen: 59.484 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. 0.02 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBSD01

Tot Ion: 43 Resp: 273952

Ion Ratio Lower Upper

43 100

58 48.5

21.7

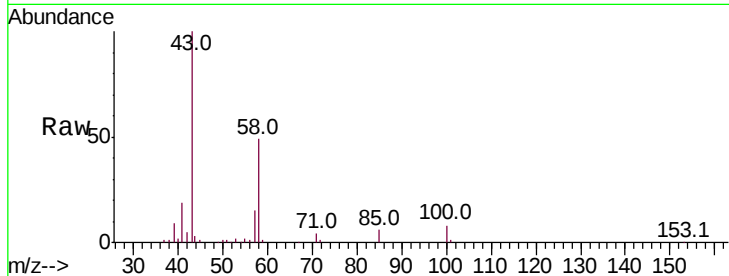
65.1

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

11.54

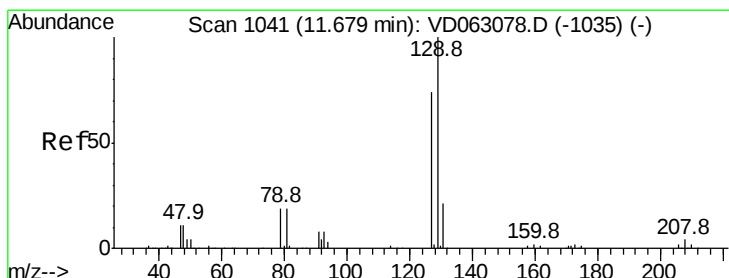
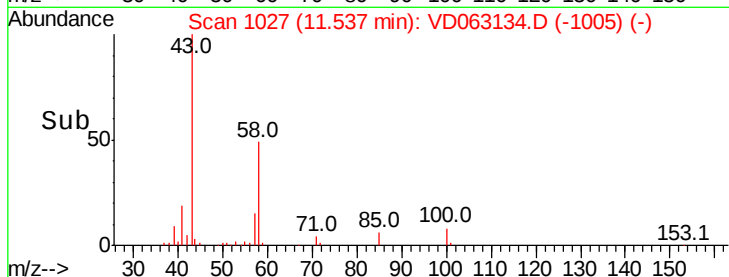
150000

100000

50000

0

Time--> 11.40 11.50 11.60 11.70



#60

Dibromochloromethane

Concen: 13.036 ug/l

RT: 11.68 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion: 129 Resp: 177269

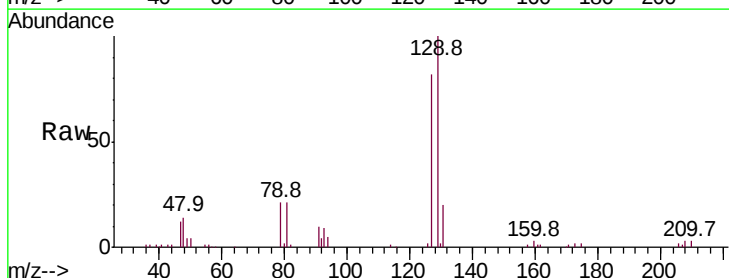
Ion Ratio Lower Upper

129 100

127 82.4

37.0

110.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.68

100000

80000

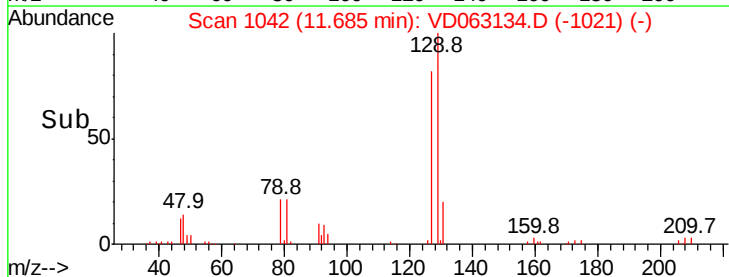
60000

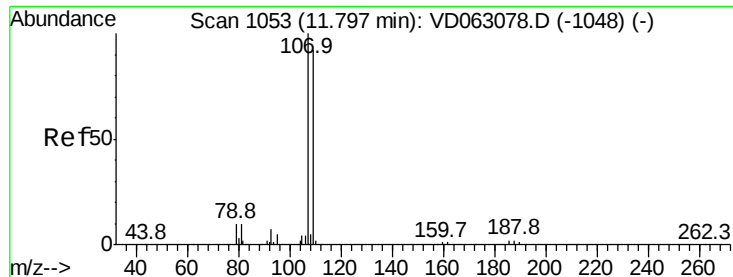
40000

20000

0

Time--> 11.60 11.70 11.80





#61

1,2-Dibromoethane

Concen: 14.162 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion:107 Resp: 120257

Ion Ratio Lower Upper

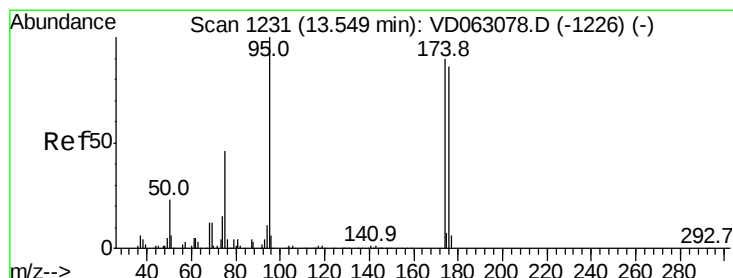
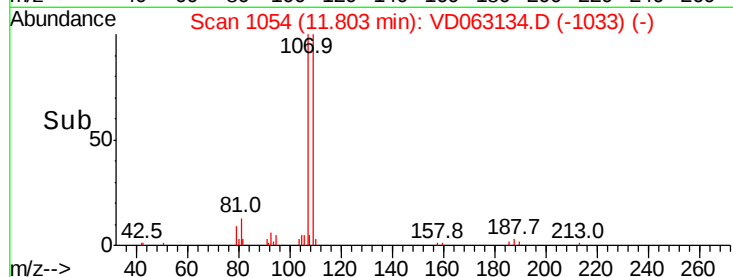
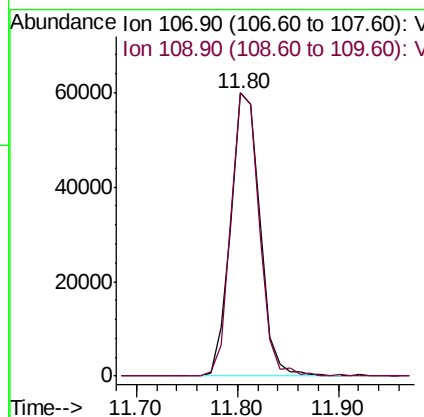
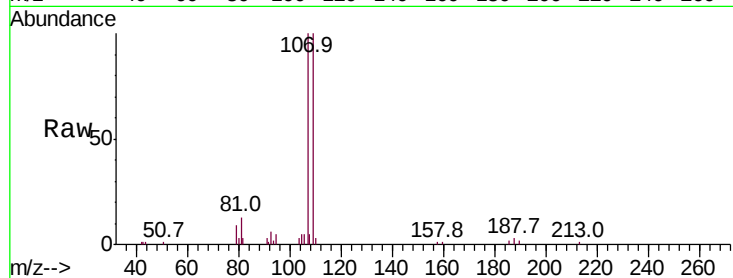
107 100

109 99.9 73.6 110.4

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#62

4-Bromofluorobenzene

Concen: 32.954 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

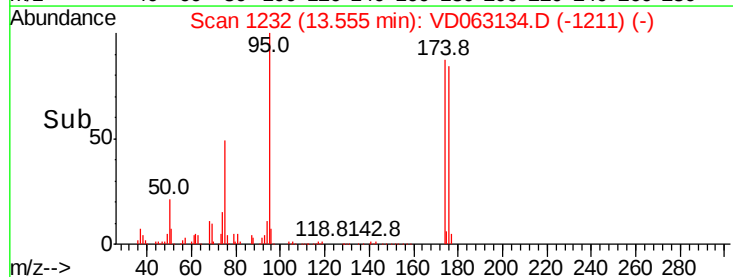
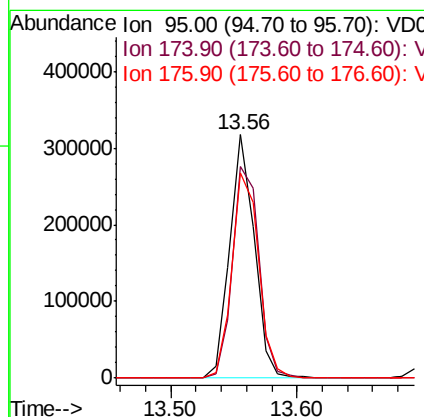
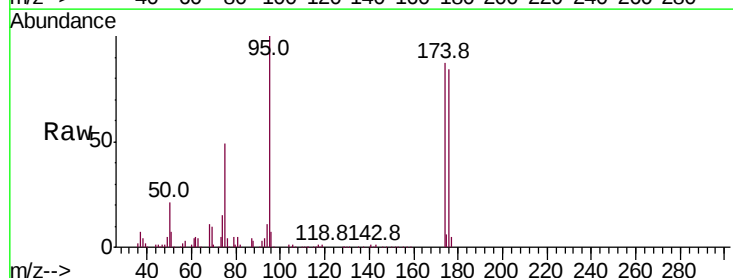
Tgt Ion: 95 Resp: 425675

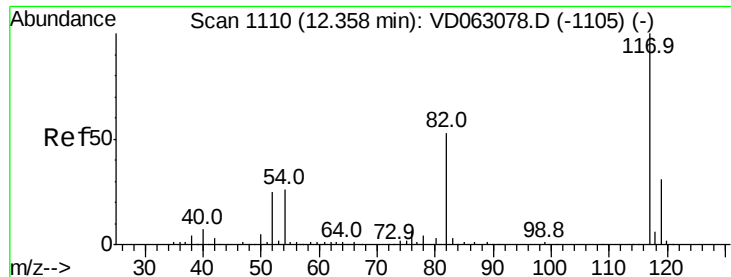
Ion Ratio Lower Upper

95 100

174 87.0 0.0 180.6

176 84.0 0.0 172.2





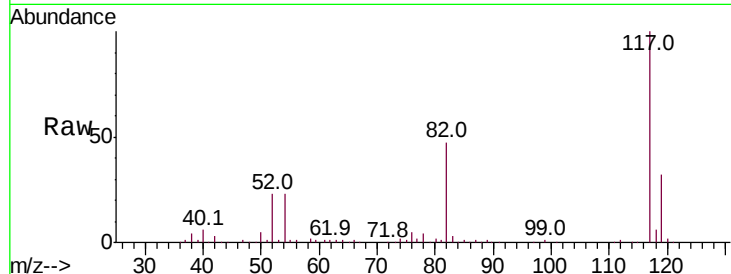
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

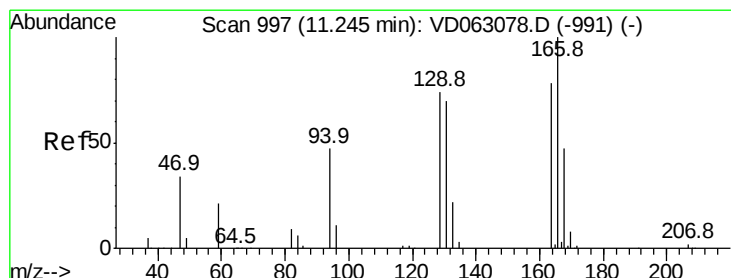
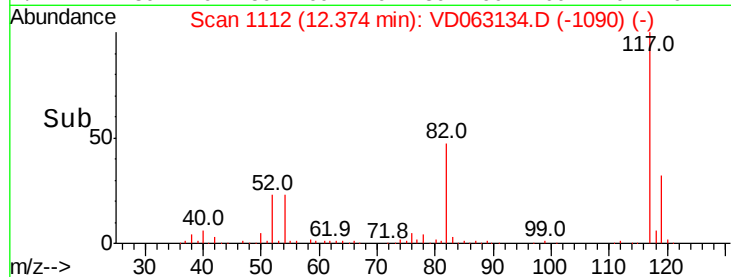
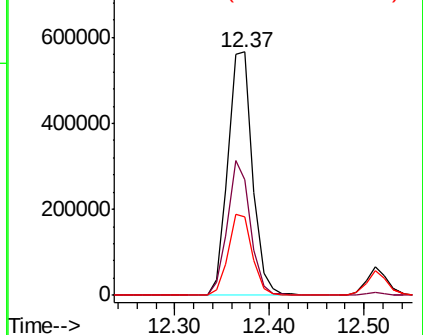
Tot Ion:117 Resp: 1024882
Ion Ratio Lower Upper
117 100
82 47.3 42.3 63.5
119 32.4 25.2 37.8

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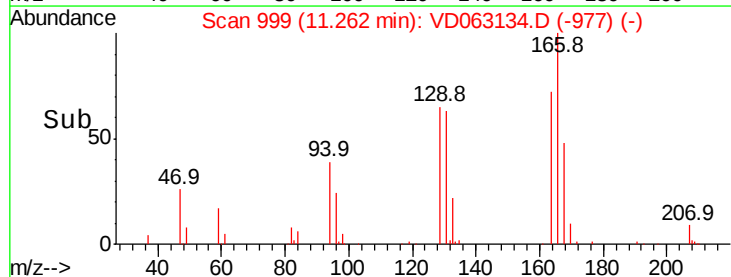
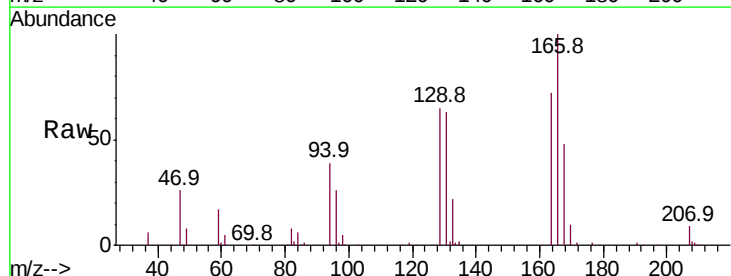
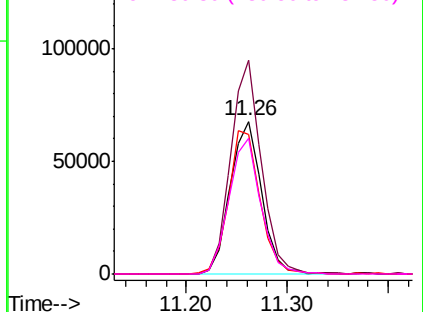
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

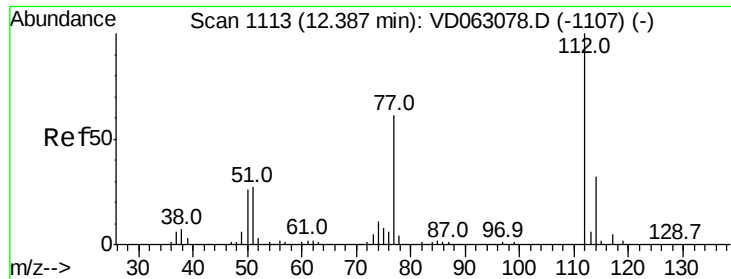


#64
Tetrachloroethene
Concen: 14.673 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion:164 Resp: 145923
Ion Ratio Lower Upper
164 100
166 139.6 102.8 154.2
129 91.4 76.4 114.6
131 88.5 71.7 107.5

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





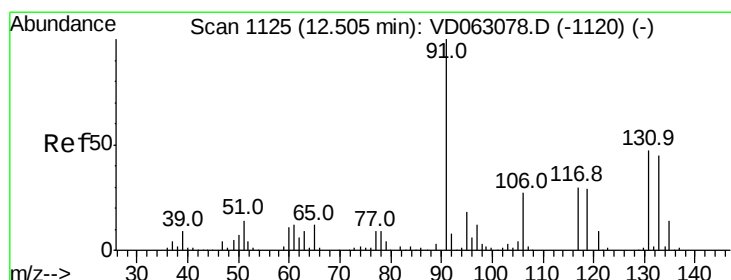
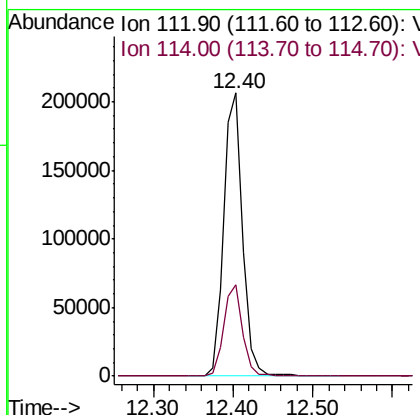
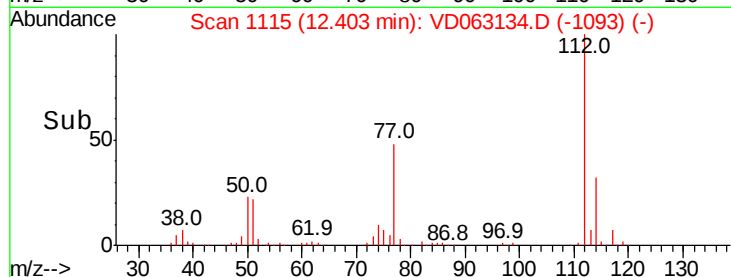
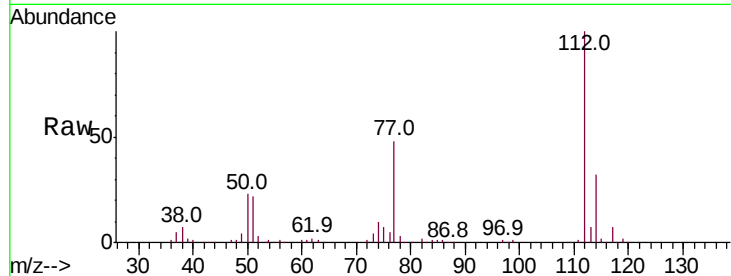
#65
Chlorobenzene
Concen: 14.334 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion:112 Resp: 345330
Ion Ratio Lower Upper
112 100
114 32.1 25.9 38.9

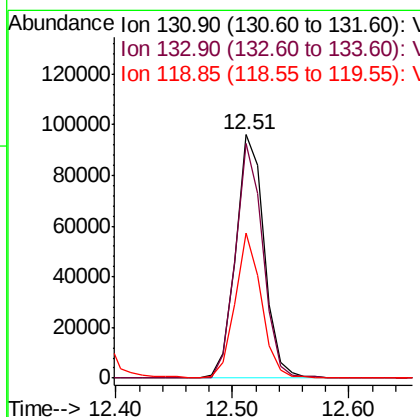
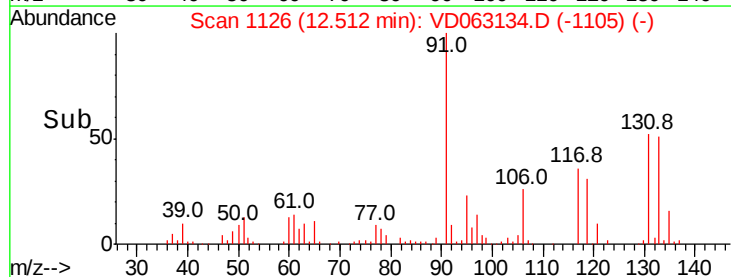
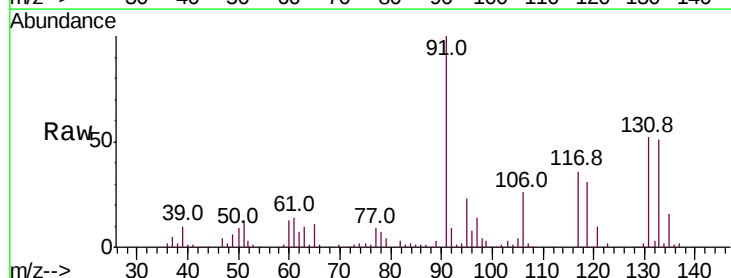
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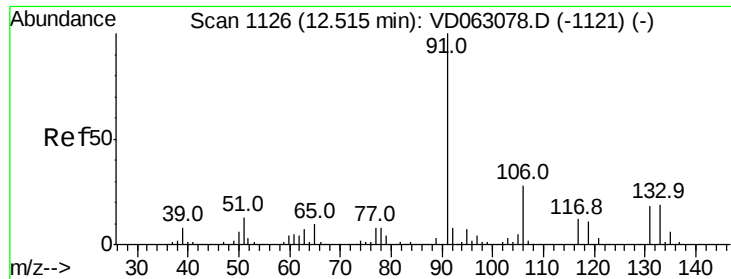
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#66
1,1,1,2-Tetrachloroethane
Concen: 14.520 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion:131 Resp: 162186
Ion Ratio Lower Upper
131 100
133 96.6 48.5 145.6
119 59.6 30.8 92.3





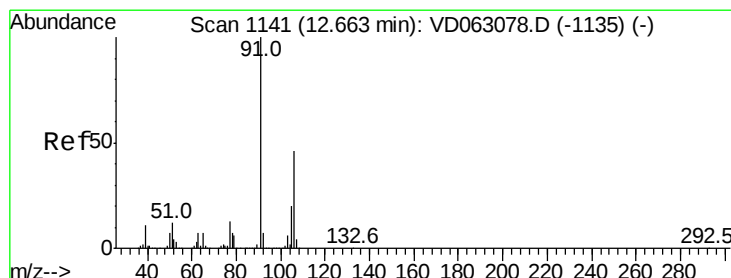
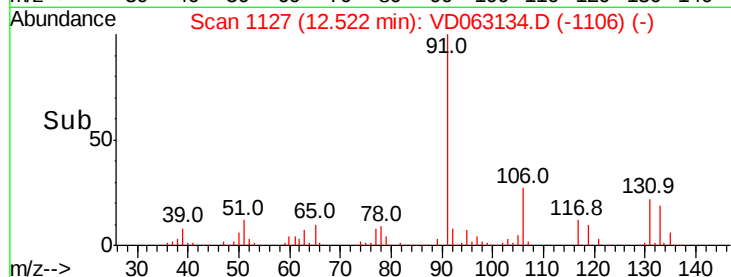
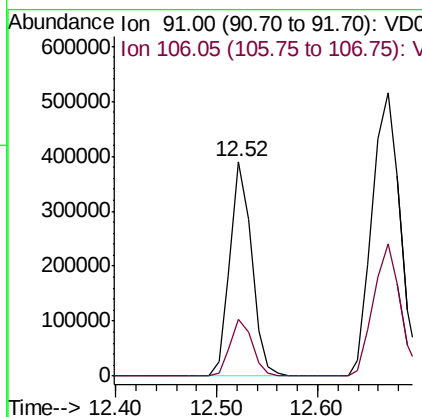
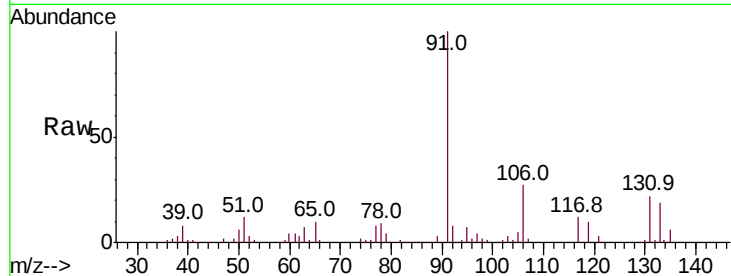
#67
Ethyl Benzene
Concen: 14.100 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion: 91 Resp: 590220
Ion Ratio Lower Upper
91 100
106 26.8 22.5 33.7

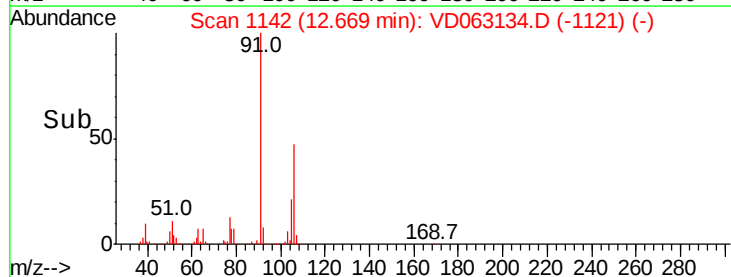
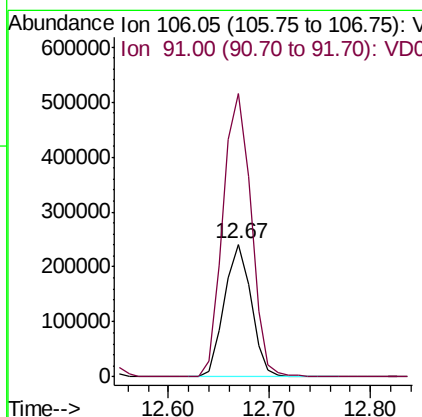
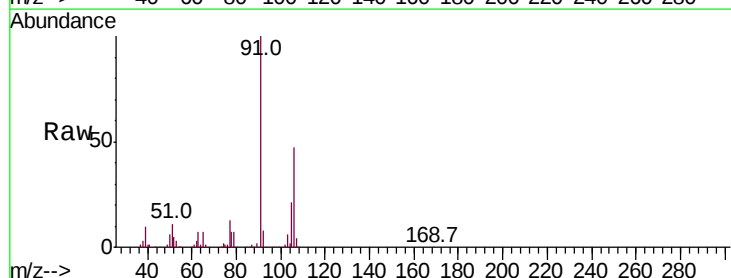
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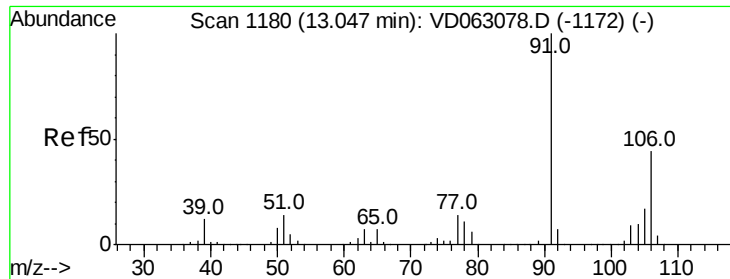
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#68
m/p-Xylenes
Concen: 30.126 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion: 106 Resp: 451682
Ion Ratio Lower Upper
106 100
91 213.3 173.0 259.6





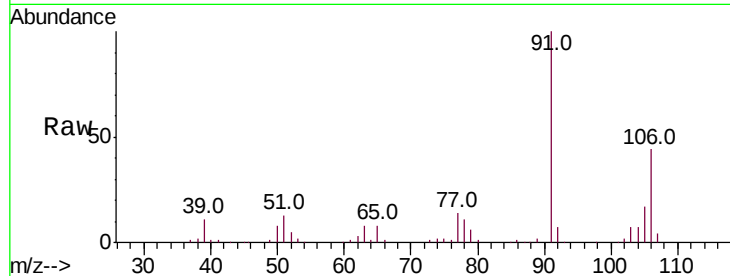
#69
o-Xylene
Concen: 14.316 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

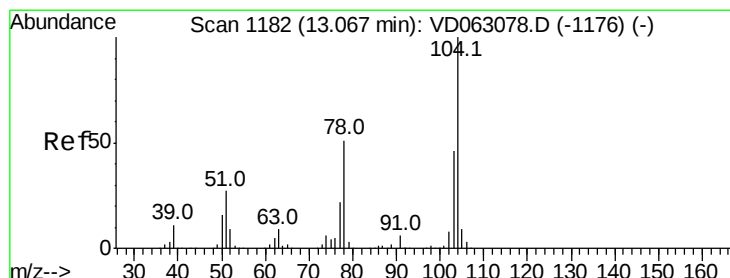
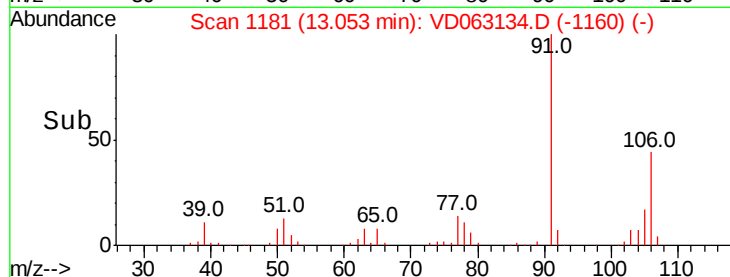
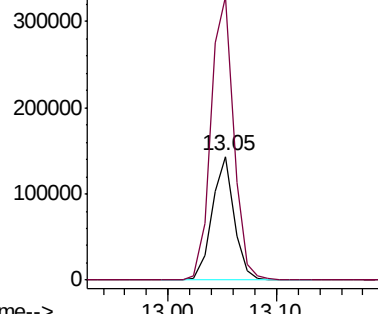
Tot Ion:106 Resp: 203534
Ion Ratio Lower Upper
106 100
91 228.5 114.9 344.7

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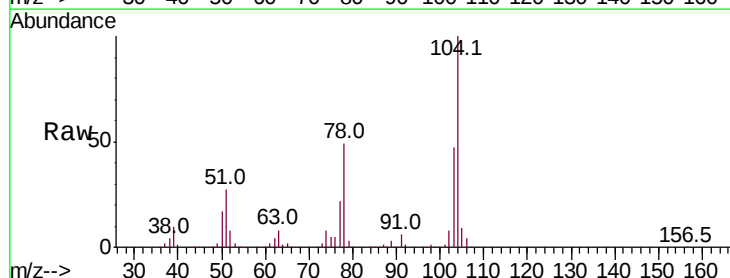


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

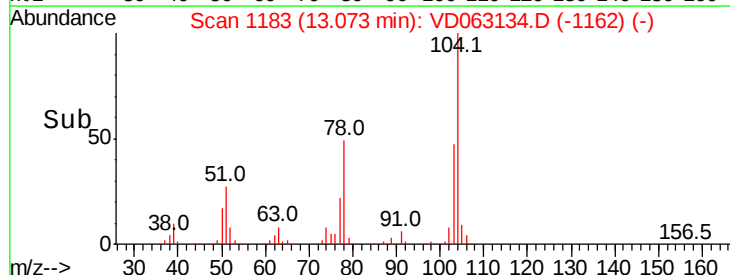
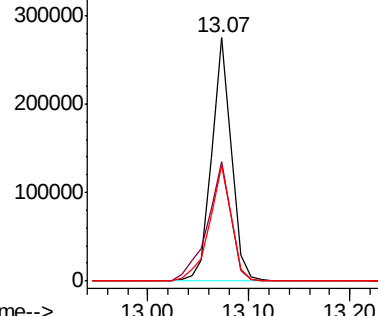


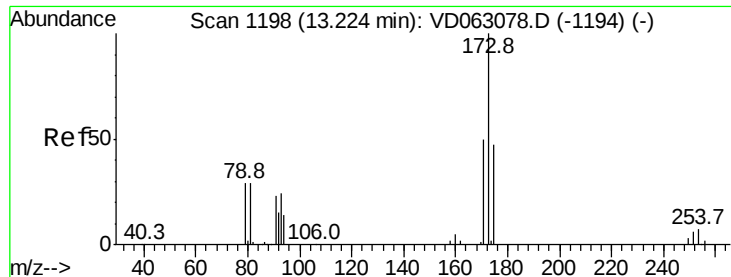
#70
Styrene
Concen: 14.857 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion:104 Resp: 369721
Ion Ratio Lower Upper
104 100
78 49.0 41.1 61.7
103 47.3 37.0 55.6



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





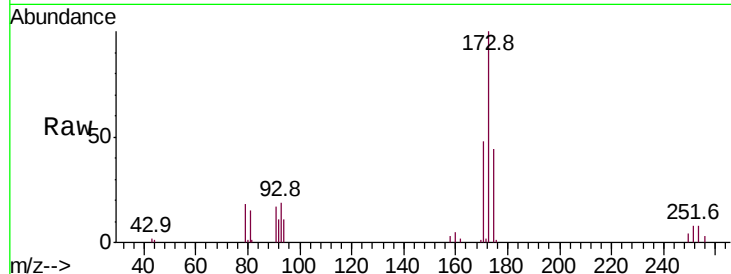
#71
Bromoform
Concen: 14.029 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.02 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.4	23.4	70.2
254	8.5	5.4	8.0#

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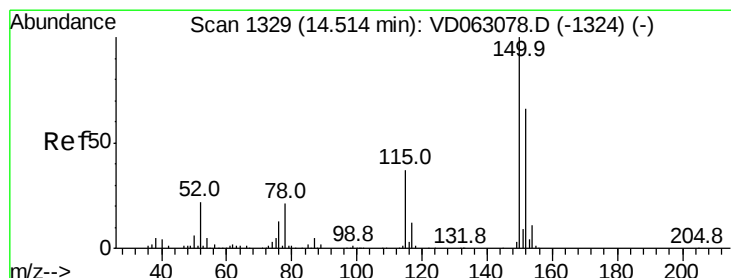
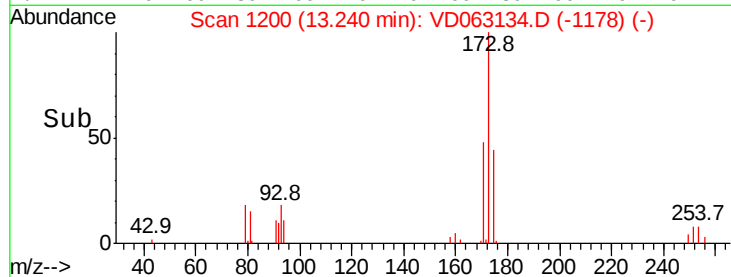
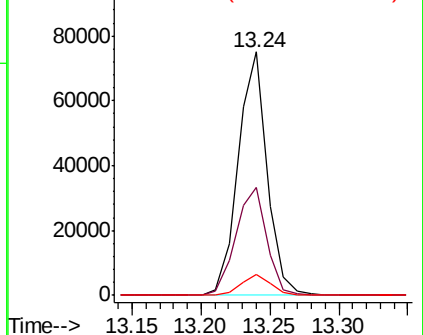


Abundance

Ion 172.80 (172.50 to 173.50): V

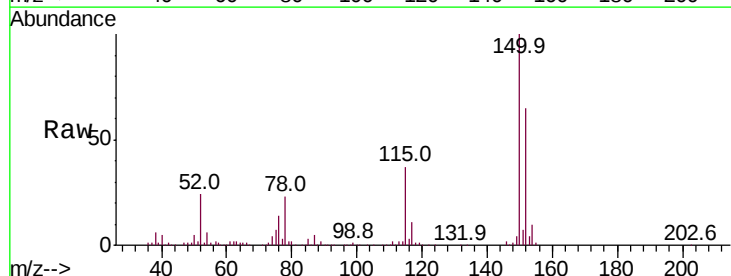
Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.9	86.8
150	154.3	0.0	313.8

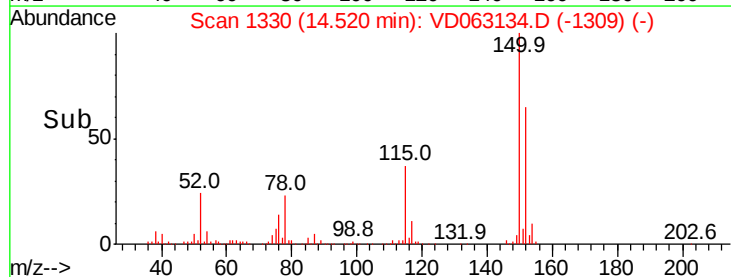
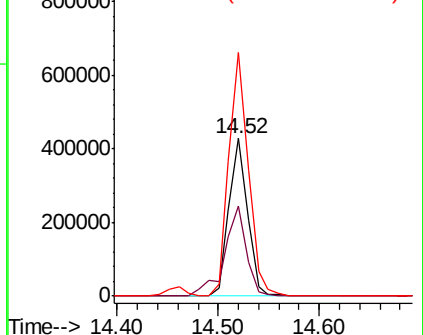


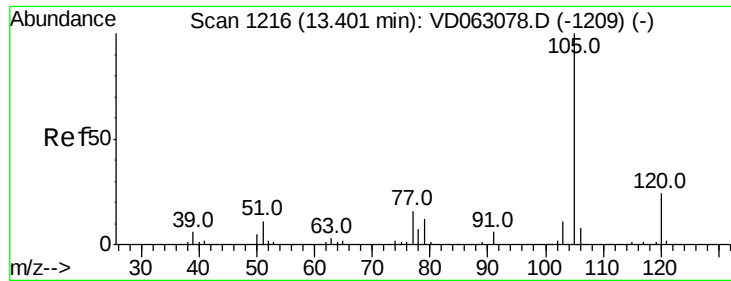
Abundance

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: 15.657 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 105 Resp: 663078

Ion Ratio Lower Upper

105 100

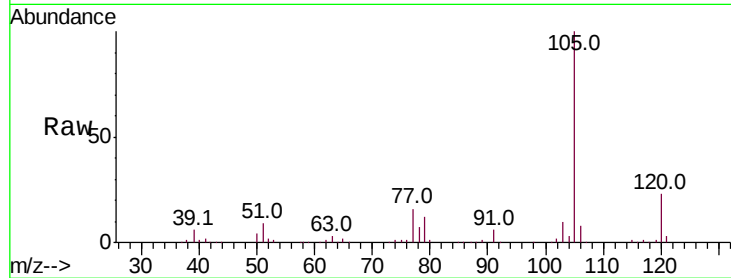
120 23.3 12.2 36.4

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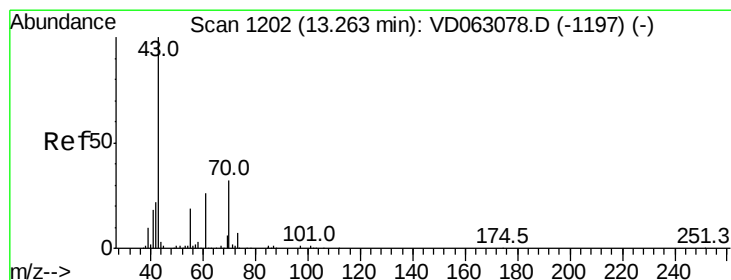
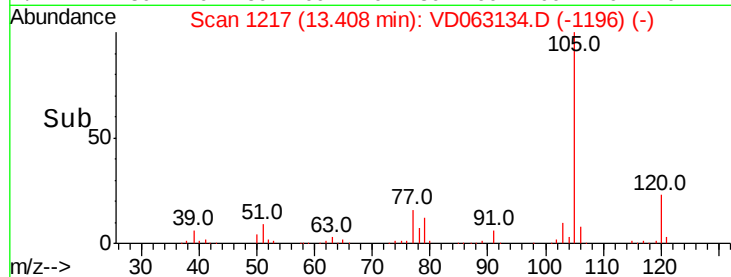
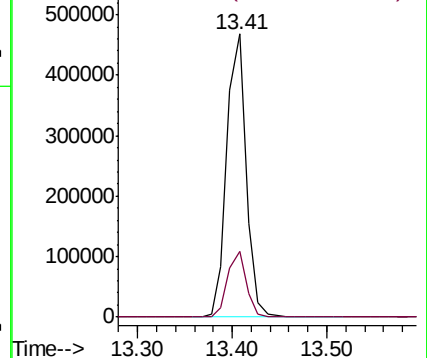
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 14.118 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion: 43 Resp: 166754

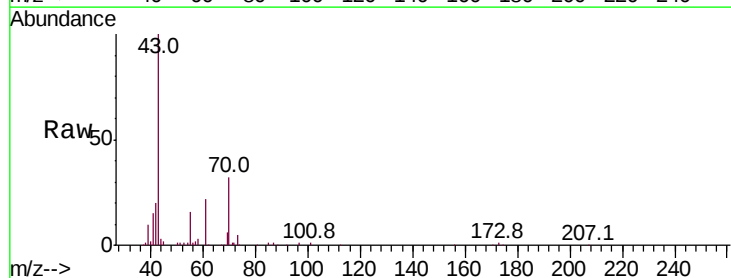
Ion Ratio Lower Upper

43 100

70 31.9 25.5 38.3

55 16.5 15.4 23.0

61 22.0 20.6 31.0

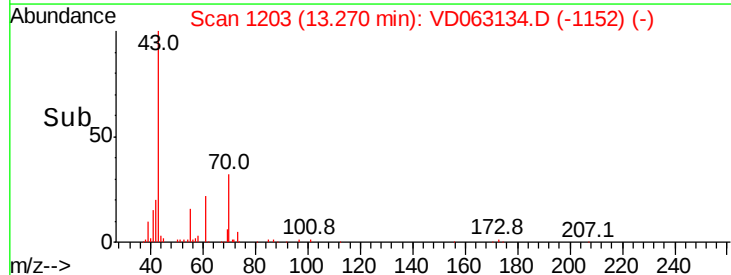
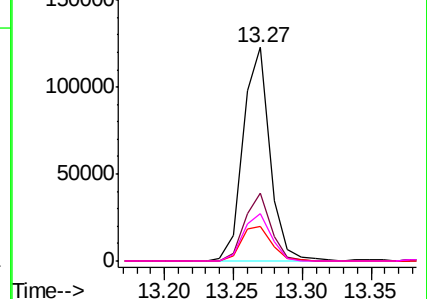


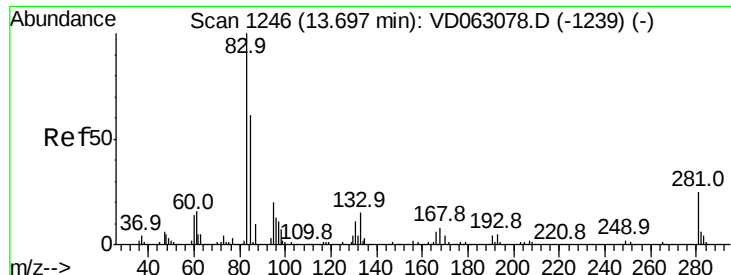
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 14.242 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 83 Resp: 109741

Ion Ratio Lower Upper

83 100

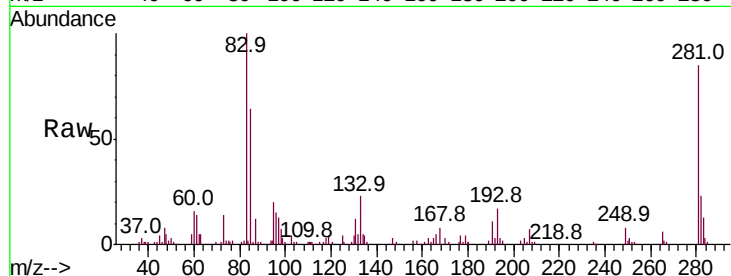
131 11.6 5.5 16.7

85 63.9 30.7 92.1

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Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC

100000

80000

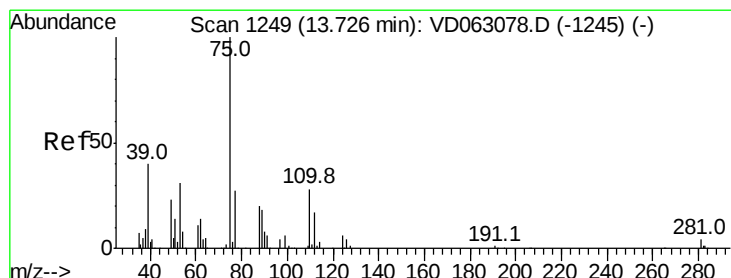
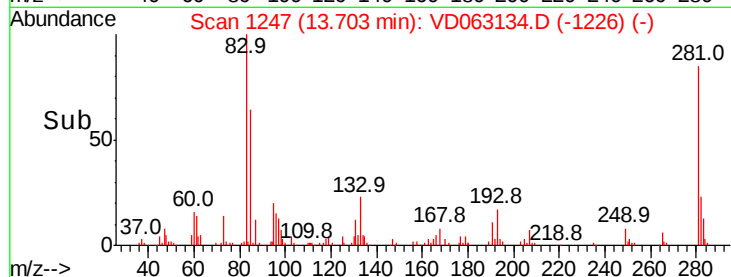
60000

40000

20000

0

Time--> 13.60 13.70 13.80



#76

1,2,3-Trichloropropane

Concen: 12.911 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.01 min

Lab File: VD063134.D

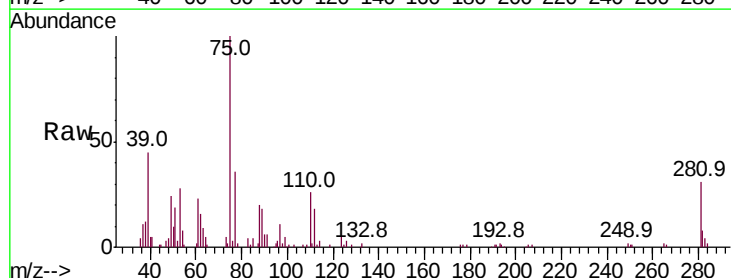
Acq: 17 Jul 2019 16:30

Tgt Ion: 75 Resp: 108916

Ion Ratio Lower Upper

75 100

77 36.0 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

200000

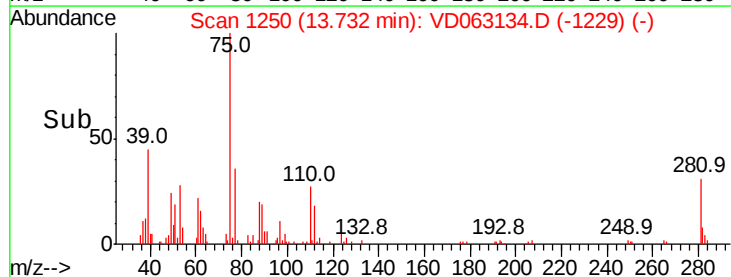
150000

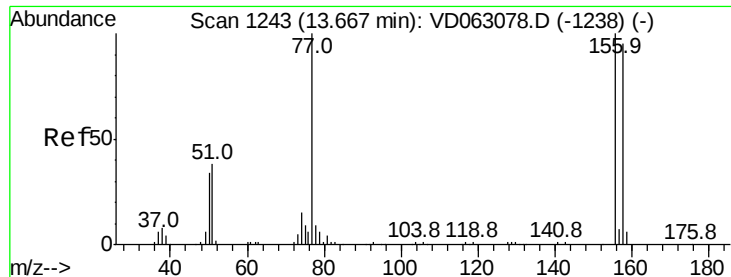
100000

50000

0

Time--> 13.70 13.80





#77

Bromobenzene

Concen: 15.786 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

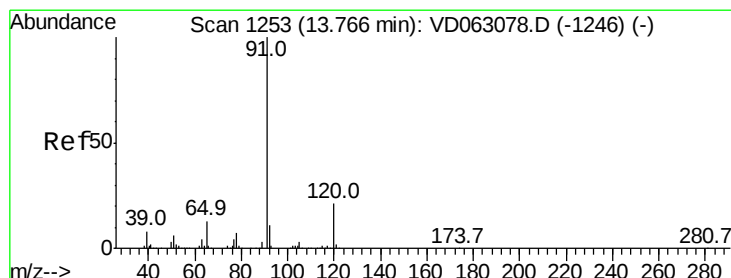
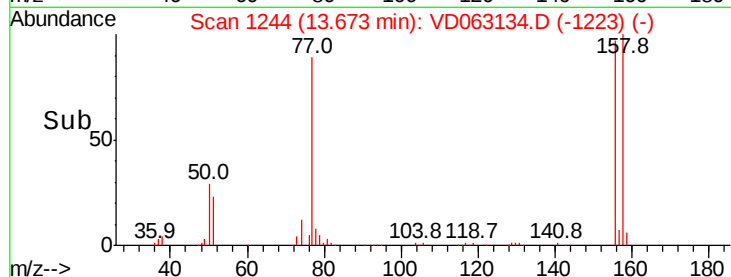
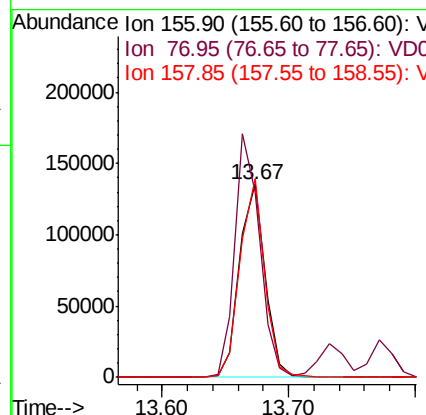
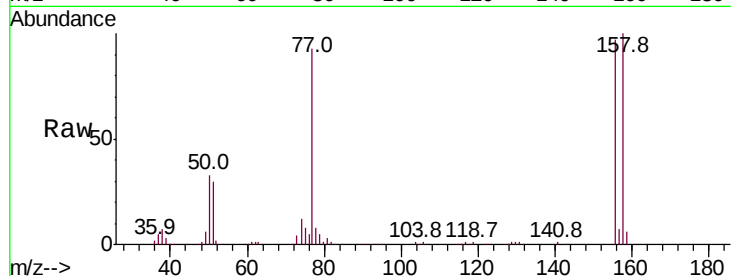
ClientSampleId :

VD0717SBS01

Tot Ion:	156	Resp:	189585
Ion Ratio	Lower	Upper	
156	100		
77	95.3	50.2	150.7
158	102.6	47.6	142.9

Manual Integrations
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#78

n-propylbenzene

Concen: 15.779 ug/l

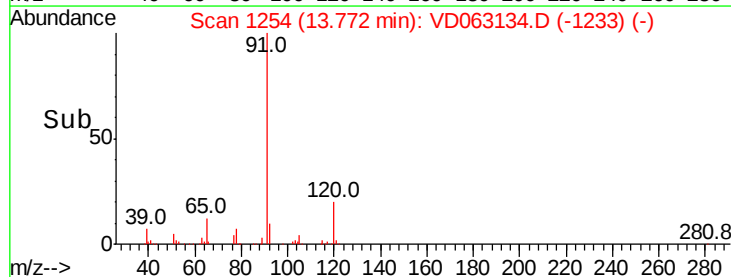
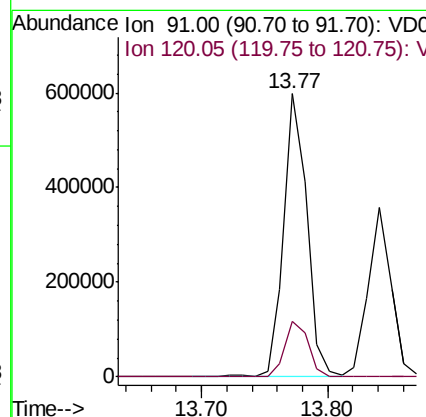
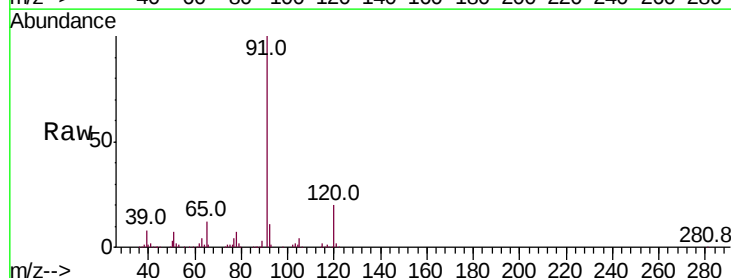
RT: 13.77 min Scan# 1254

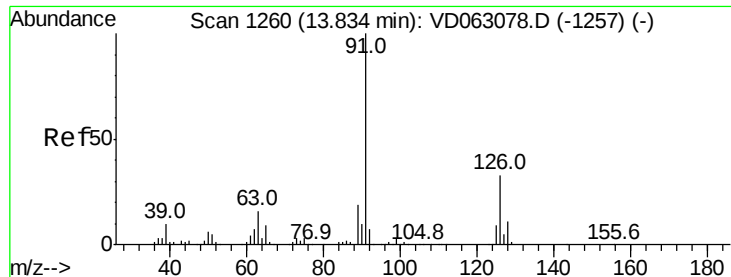
Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion:	91	Resp:	769001
Ion Ratio	Lower	Upper	
91	100		
120	19.6	10.5	31.6





#79

2-Chlorotoluene

Concen: 15.257 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS01

Tot Ion: 91 Resp: 449590

Ion Ratio Lower Upper

91 100

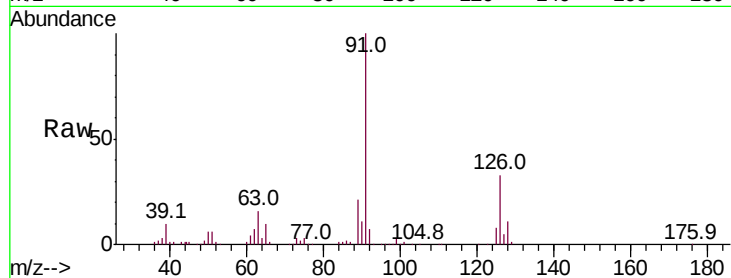
126 32.7 16.4 49.2

Manual Integrations

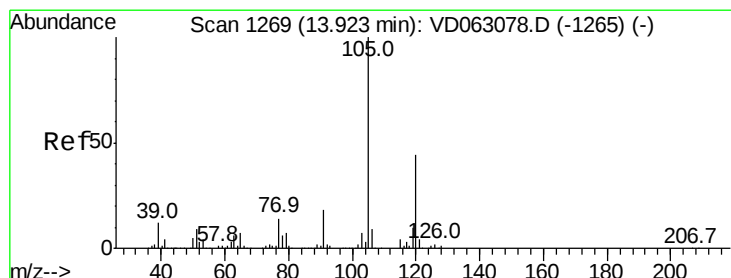
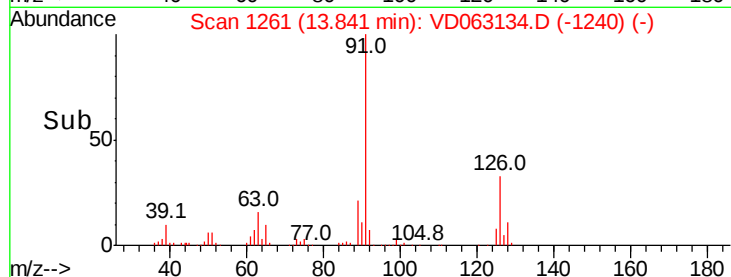
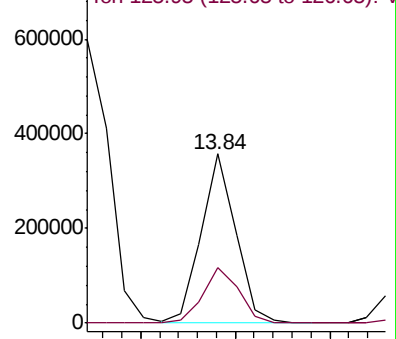
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Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 14.224 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.02 min

Lab File: VD063134.D

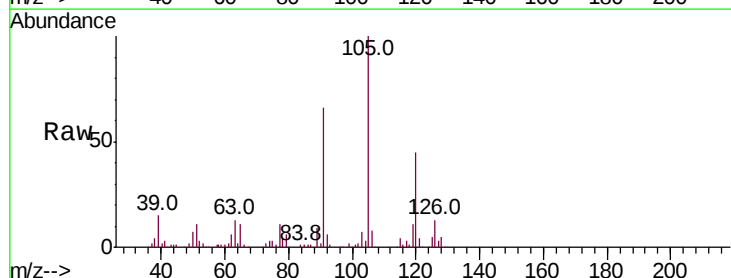
Acq: 17 Jul 2019 16:30

Tgt Ion:105 Resp: 525003

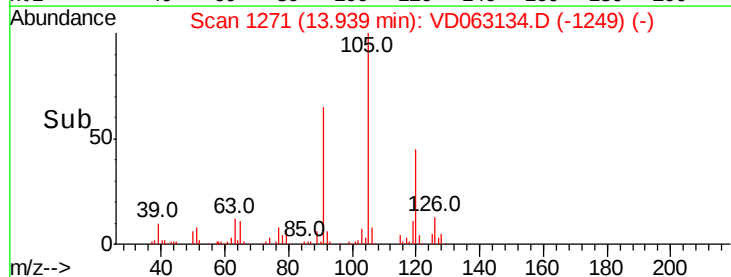
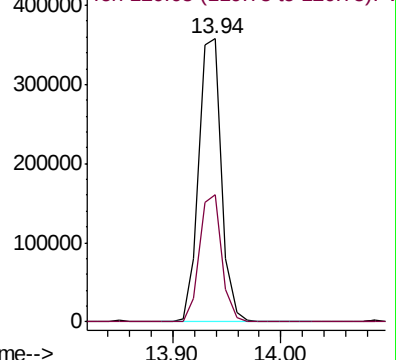
Ion Ratio Lower Upper

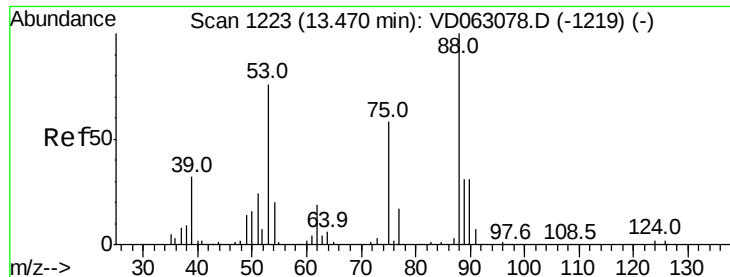
105 100

120 44.9 21.8 65.4



Abundance Ion 105.05 (104.75 to 105.75): V





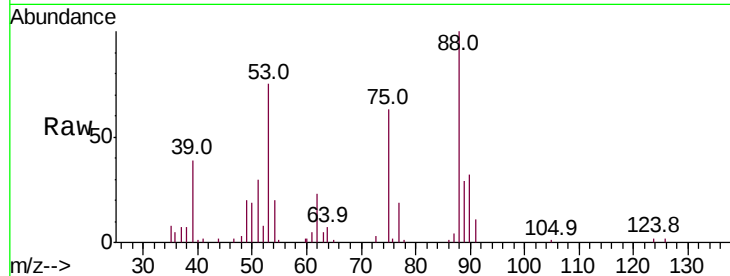
#81
trans-1,4-Dichloro-2-butene
Concen: 14.526 ug/l
RT: 13.48 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

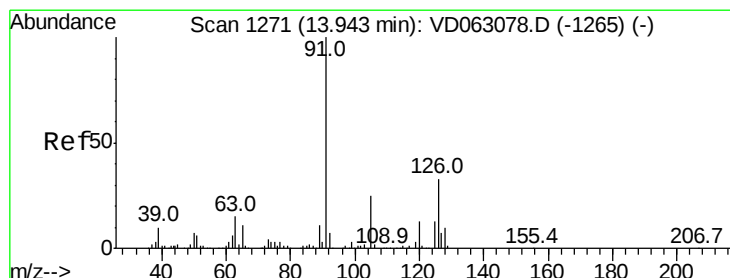
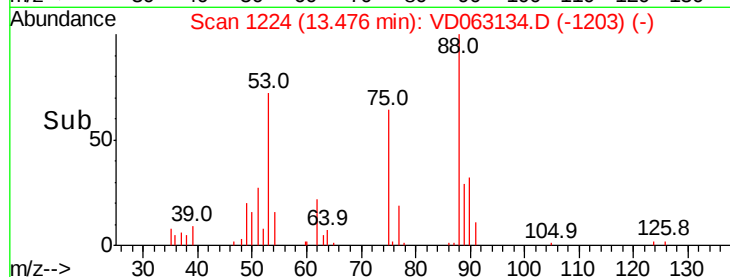
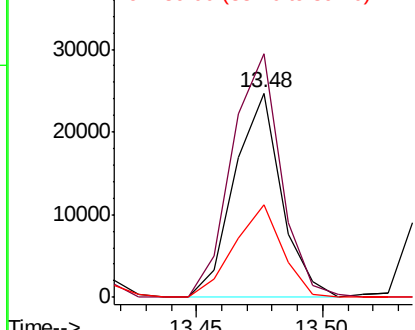
Tot Ion: 75 Resp: 32270
Ion Ratio Lower Upper
75 100
53 119.1 104.4 156.6
89 45.5 43.1 64.7

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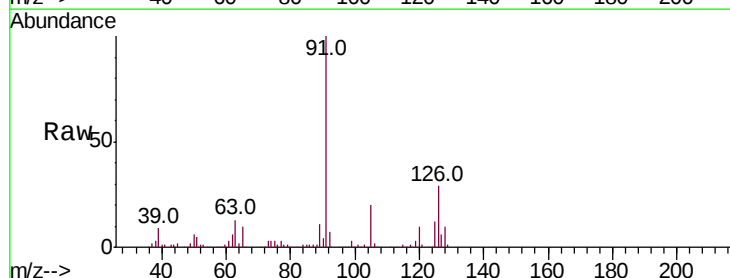


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

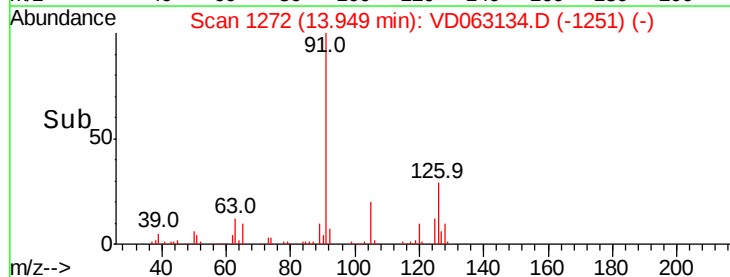
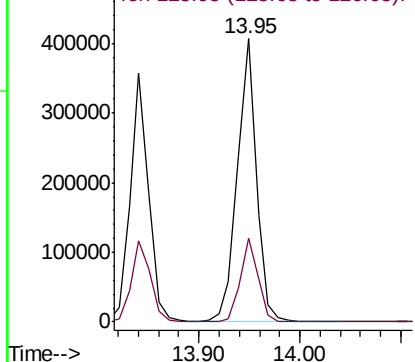


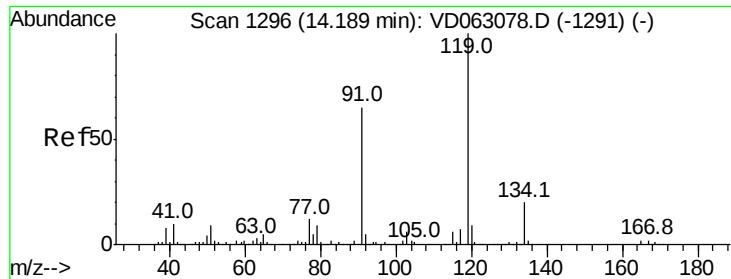
#82
4-Chlorotoluene
Concen: 15.489 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion: 91 Resp: 532974
Ion Ratio Lower Upper
91 100
126 29.5 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





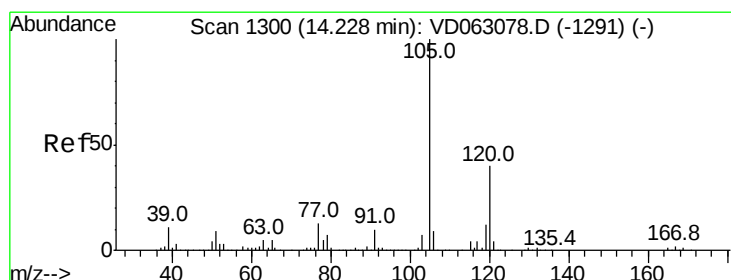
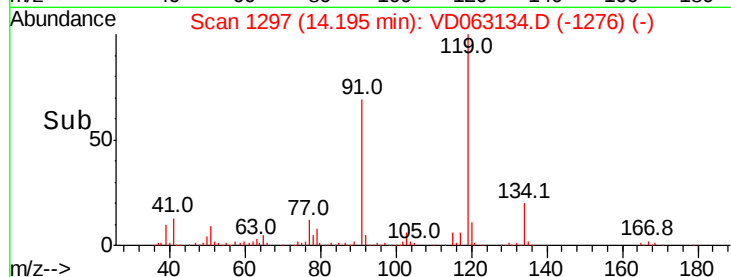
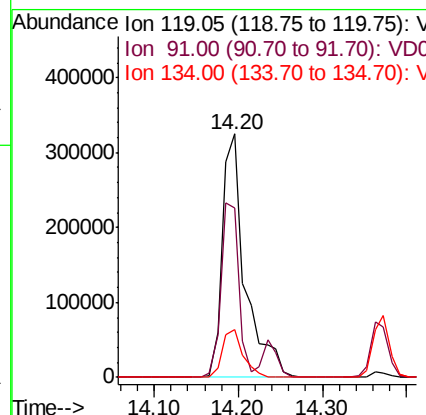
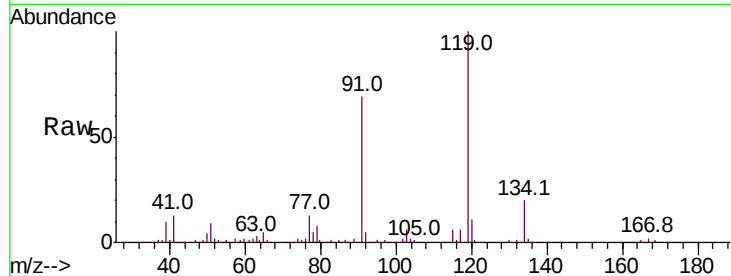
#83
tert-Butylbenzene
Concen: 14.627 ug/l
RT: 14.20 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	610480		
91	69.3	32.4	97.2	
134	19.8	10.2	30.6	

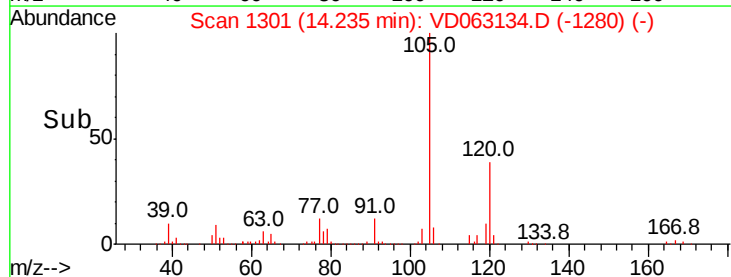
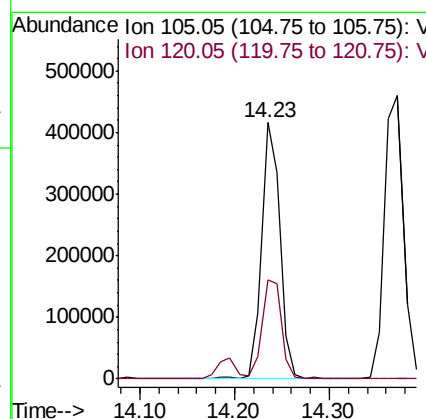
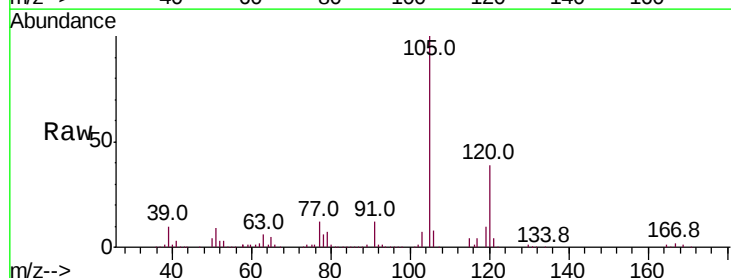
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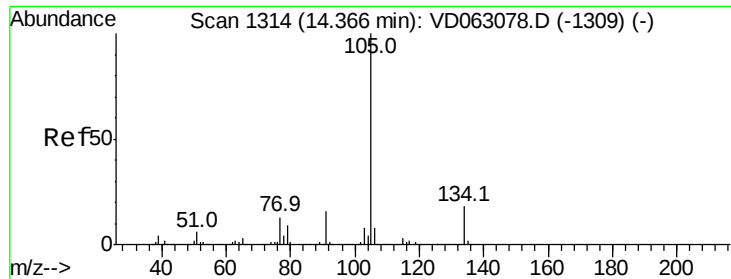
MMDadoda
7/18/2019 10:01:31 AM



#84
1,2,4-Trimethylbenzene
Concen: 15.276 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	562140		
120	38.9	20.2	60.6	





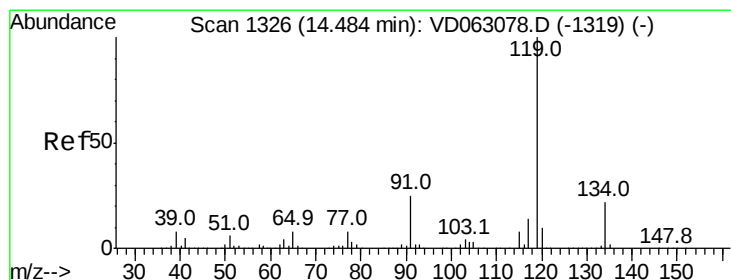
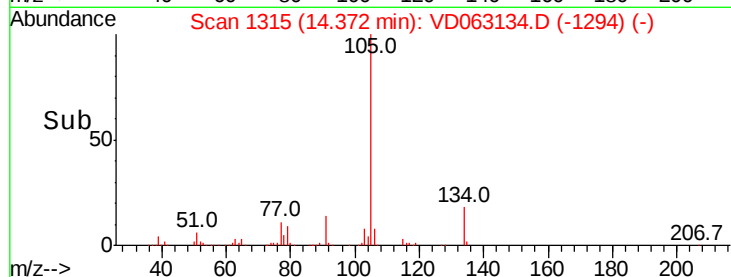
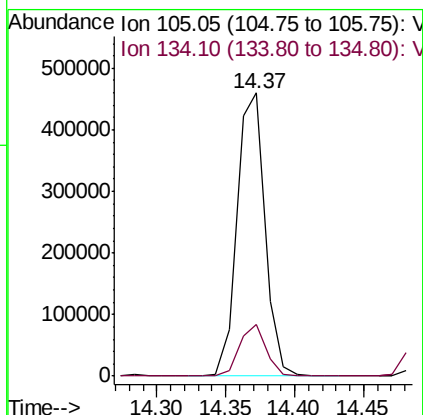
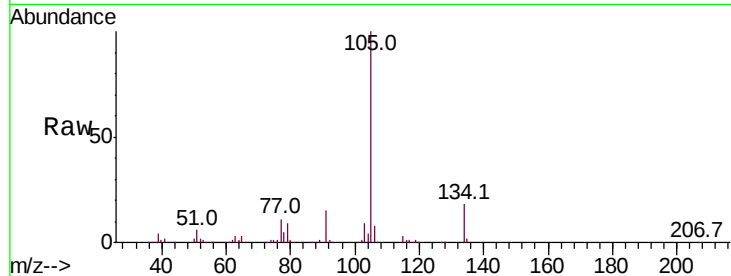
#85
 sec-Butylbenzene
 Concen: 14.679 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0717SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	650918		
134	18.1	8.9	26.8	

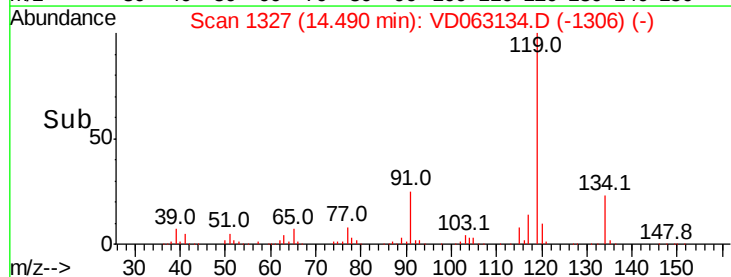
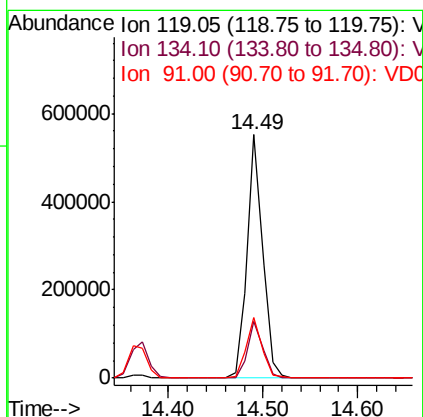
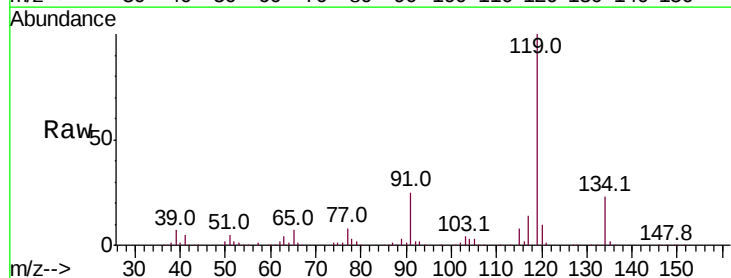
Manual Integrations
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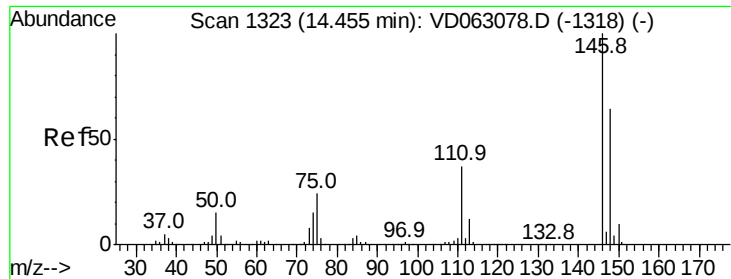
MMDadoda
 7/18/2019 10:01:31 AM



#86
 p-Isopropyltoluene
 Concen: 15.178 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	627862		
134	23.2	10.8	32.4	
91	24.8	12.5	37.5	





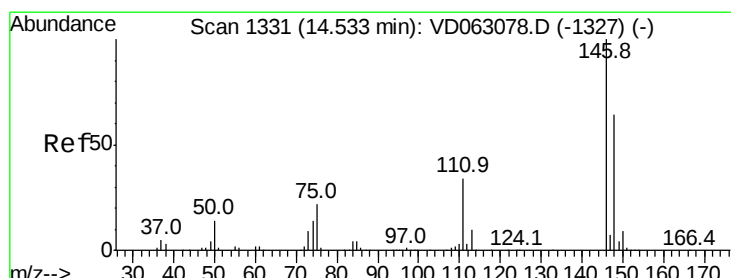
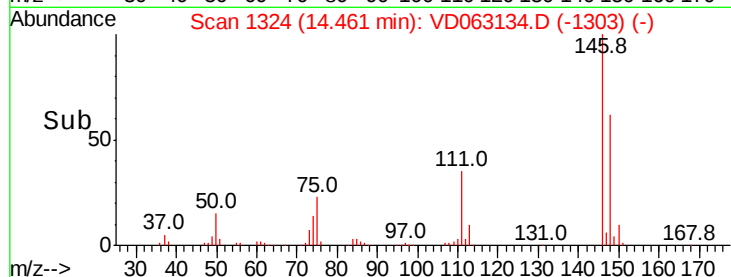
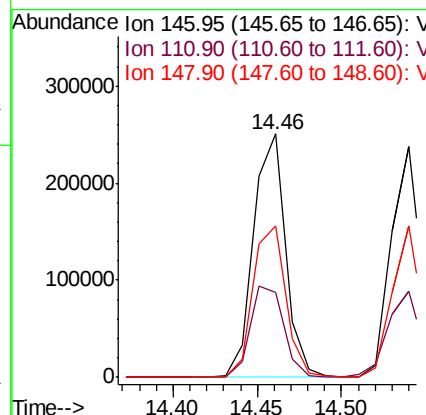
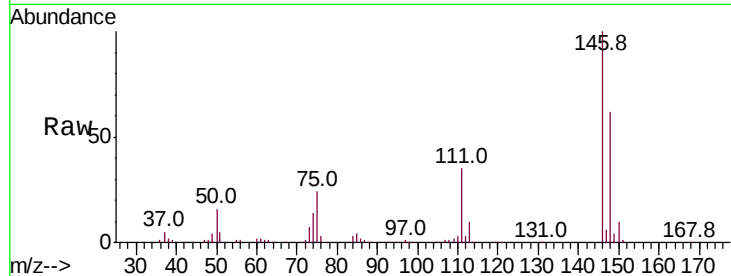
#87
 1,3-Dichlorobenzene
 Concen: 15.488 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.7	18.6	55.6
148	62.1	32.0	96.0

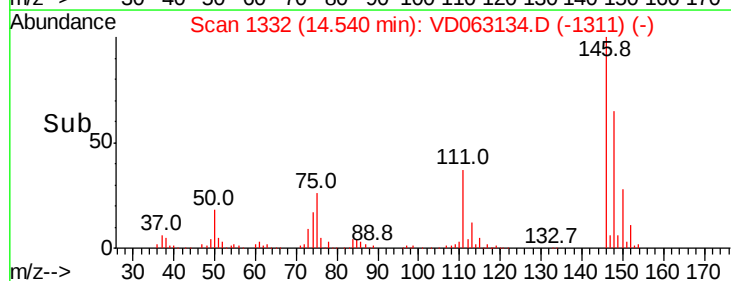
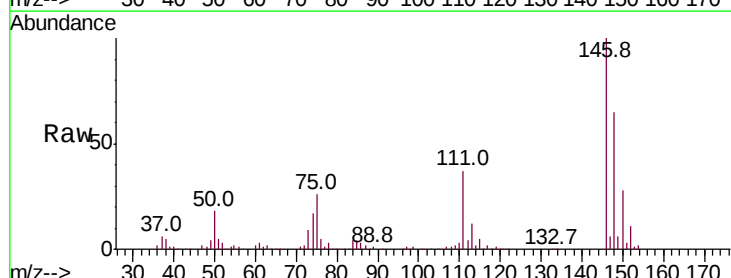
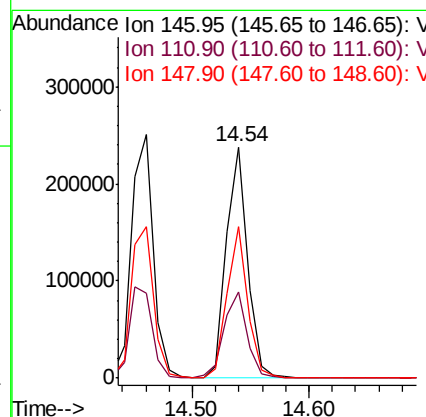
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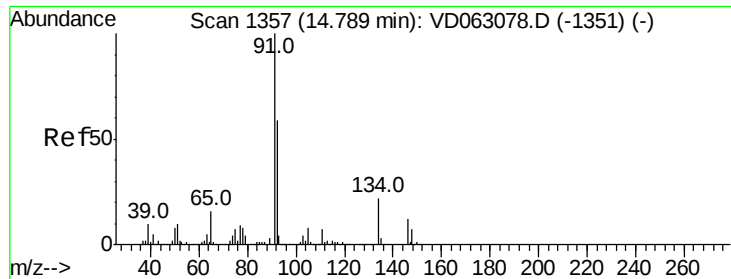
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 14.766 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	17.0	51.0
148	65.3	32.0	96.2





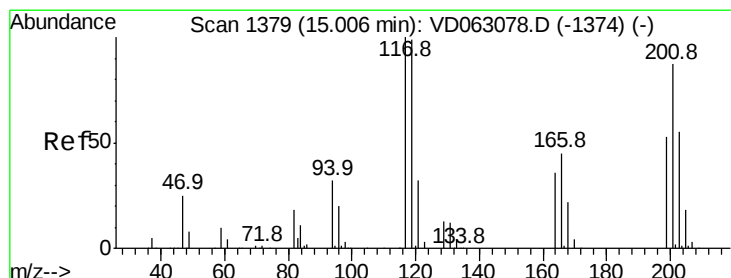
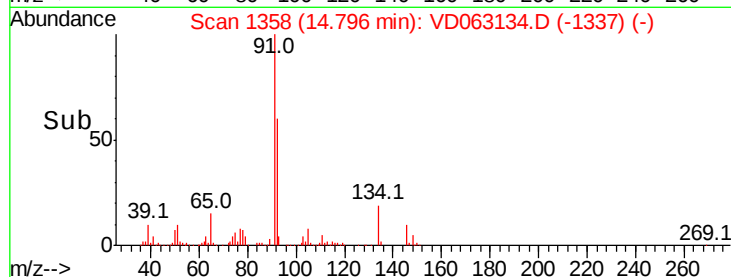
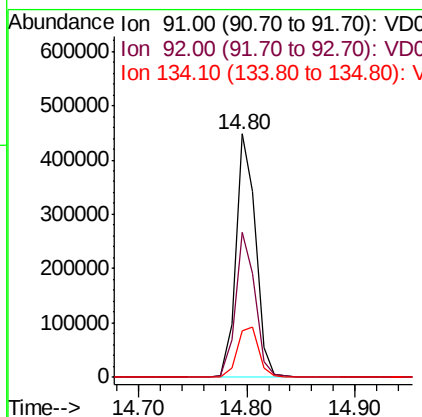
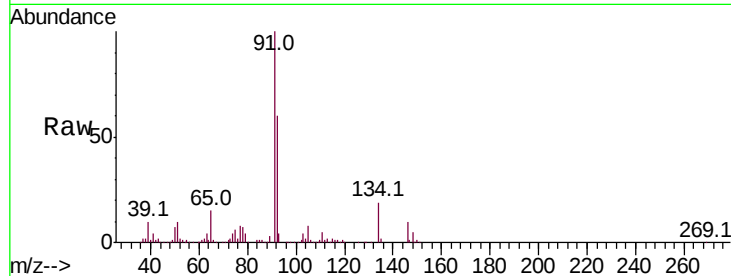
#89
n-Butylbenzene
Concen: 14.900 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.4	88.3
134	19.2	11.3	33.8

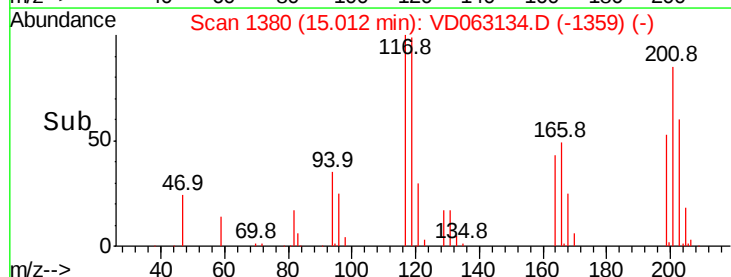
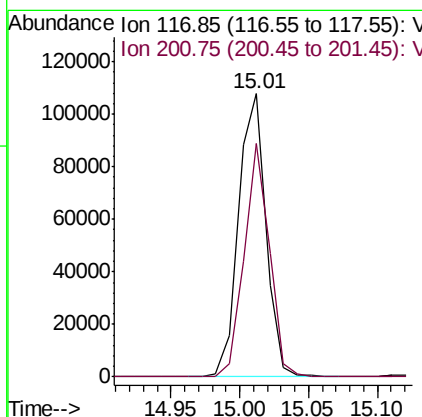
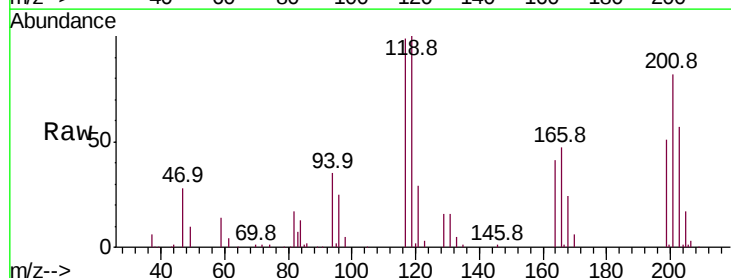
Manual Integrations
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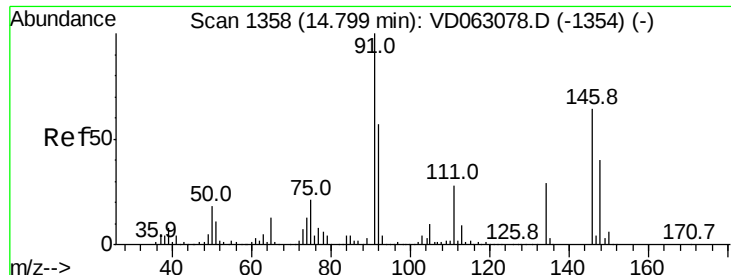
MMDadoda
7/18/2019 10:01:31 AM



#90
Hexachloroethane
Concen: 13.502 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.5	43.4	130.1





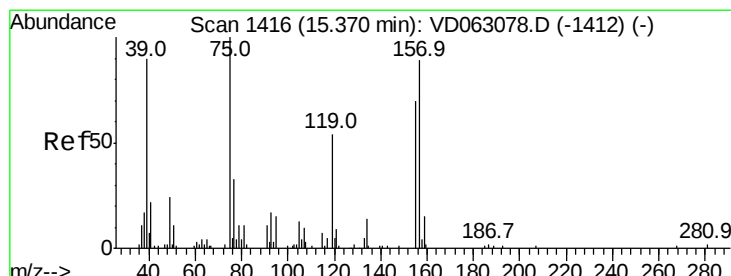
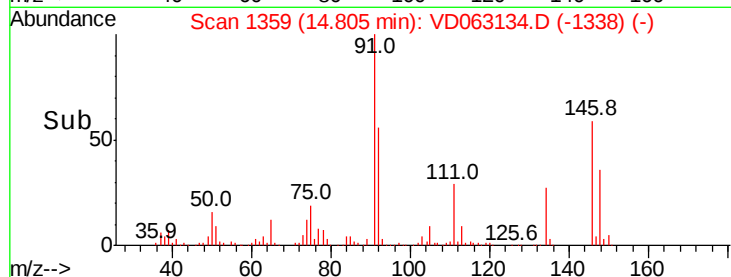
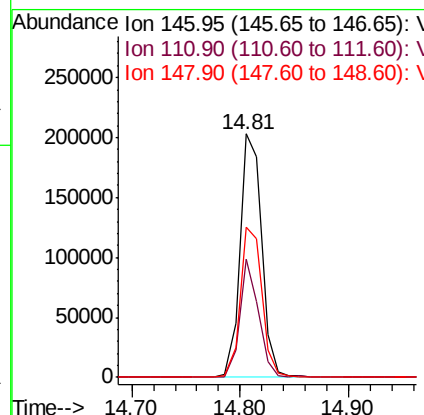
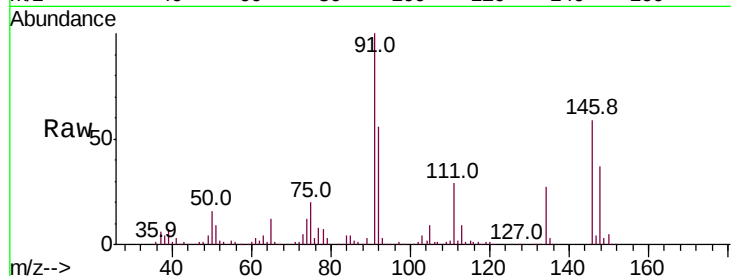
#91
 1,2-Dichlorobenzene
 Concen: 14.884 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0717SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	21.9	65.5
148	61.9	31.5	94.5

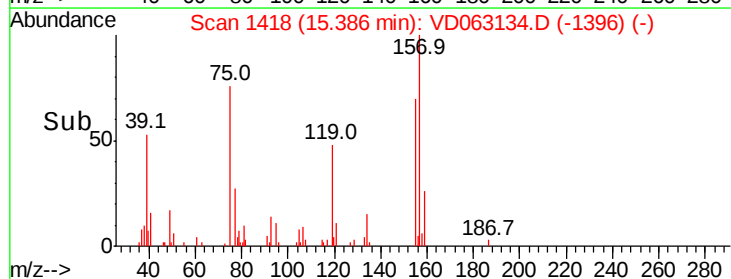
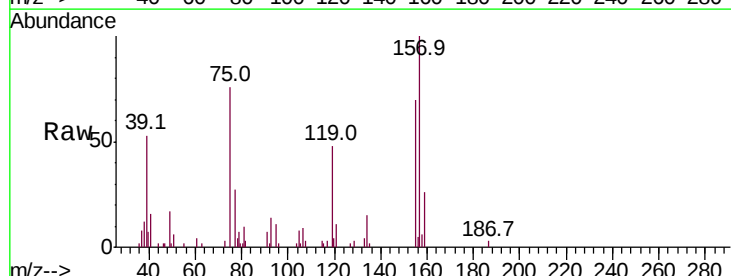
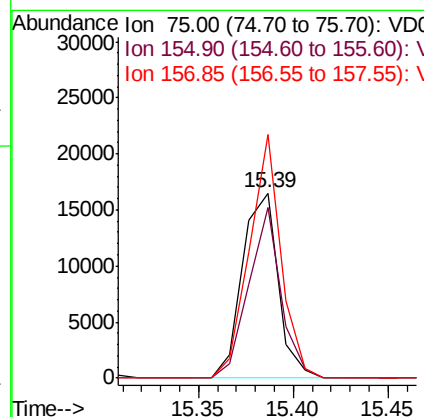
Manual Integrations
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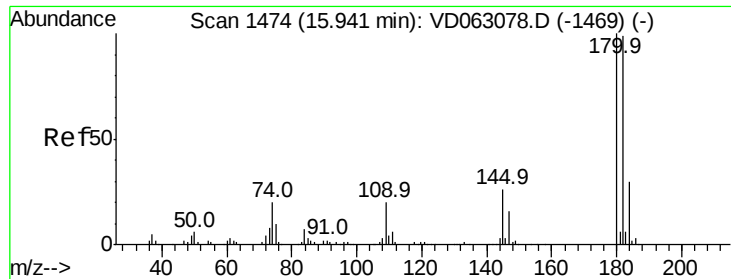
MMDadoda
 7/18/2019 10:01:31 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.519 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.02 min
 Lab File: VD063134.D
 Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.1	34.8	104.3
157	131.4	44.7	134.1





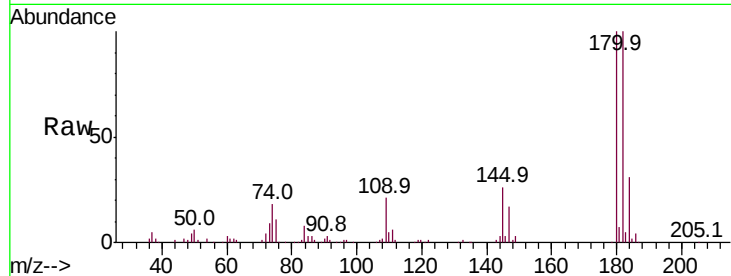
#93
1,2,4-Trichlorobenzene
Concen: 14.628 ug/l
RT: 15.95 min Scan# 1475
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS01

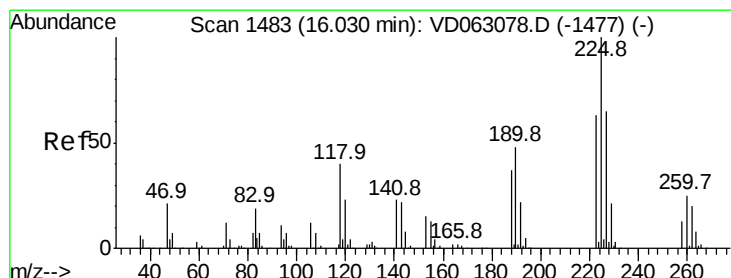
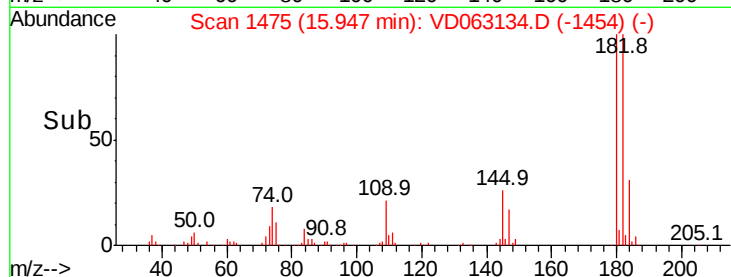
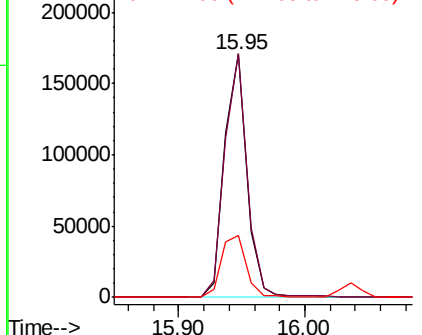
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	100.1	49.5	148.3	
145	25.5	12.8	38.4	

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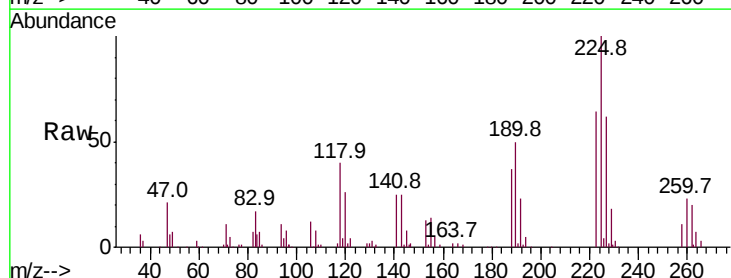


Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

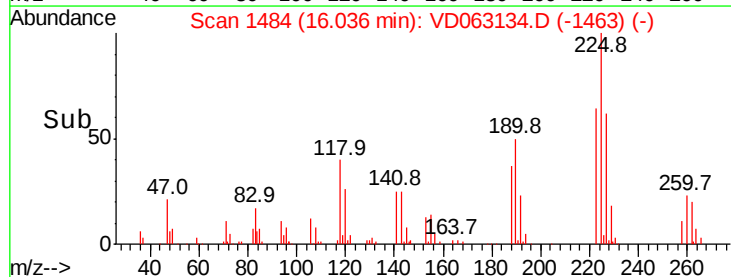
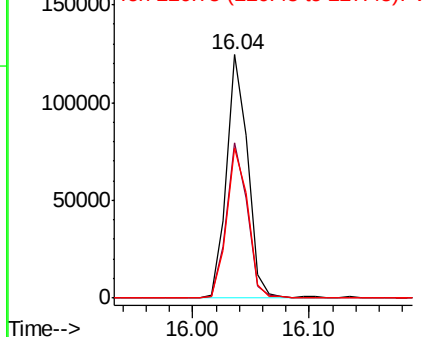


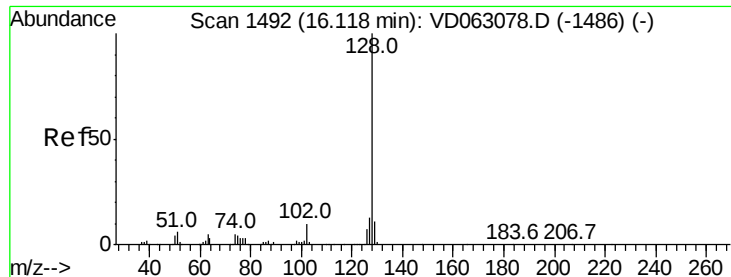
#94
Hexachlorobutadiene
Concen: 14.791 ug/l
RT: 16.04 min Scan# 1484
Delta R.T. 0.01 min
Lab File: VD063134.D
Acq: 17 Jul 2019 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.8	31.4	94.2	
227	61.7	32.6	97.8	



Abundance Ion 224.75 (224.45 to 225.45): V
Ion 222.75 (222.45 to 223.45): V
Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 15.009 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Instrument :

MSVOA_D

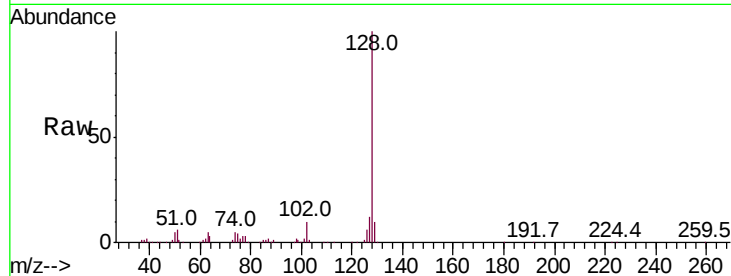
ClientSampleId :

VD0717SBS01

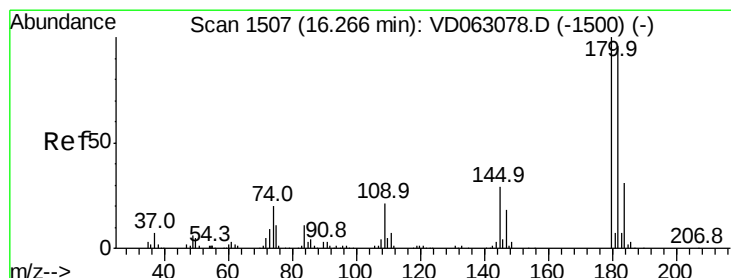
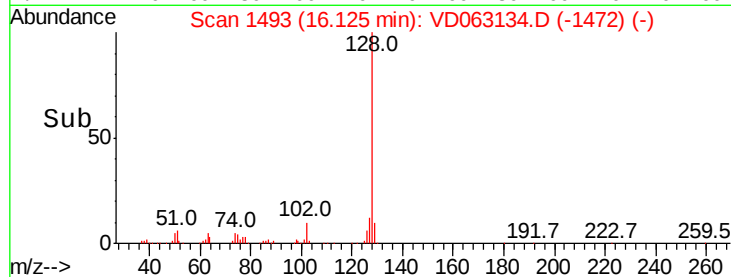
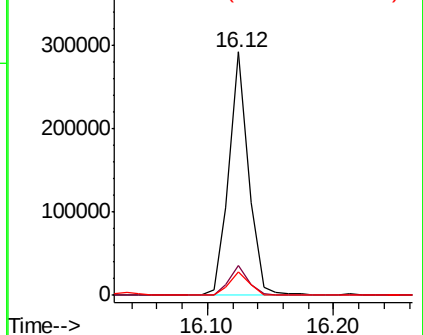
Tot Ion:	128	Resp:	315018
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.7	16.1
129	9.7	8.7	13.1

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 14.378 ug/l

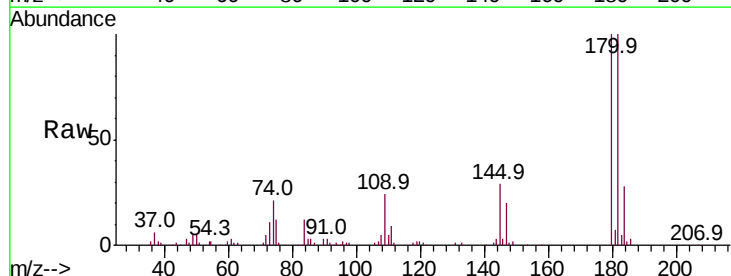
RT: 16.27 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VD063134.D

Acq: 17 Jul 2019 16:30

Tgt Ion:	180	Resp:	165965
Ion Ratio	Lower	Upper	
180	100		
182	99.7	47.9	143.6
145	29.4	14.4	43.4



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V

