

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\
 Data File : VD062666.D
 Acq On : 12 Jun 2019 11:12
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 6/13/2019 3:11:52 PM

Quant Time: Jun 13 07:30:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	814569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1057504	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	918437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	488116	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	602691	51.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.54%	
35) Dibromofluoromethane	6.91	113	593471	53.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.42%	
50) Toluene-d8	10.41	98	1281266	54.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.22%	
62) 4-Bromofluorobenzene	13.55	95	543190	49.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.57	85	403389	42.194	ug/l	98
3) Chloromethane	1.75	50	367087	45.545	ug/l	100
4) Vinyl Chloride	1.84	62	378590	45.552	ug/l	97
5) Bromomethane	2.15	94	183252	43.681	ug/l	99
6) Chloroethane	2.26	64	180519	43.993	ug/l	94
7) Trichlorofluoromethane	2.53	101	801478	43.084	ug/l	98
8) Diethyl Ether	2.86	74	127957	50.573	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.13	101	464909	46.341	ug/l	95
10) Methyl Iodide	3.30	142	559535	39.349	ug/l	98
11) Tert butyl alcohol	4.07	59	128579m	266.124	ug/l	
12) 1,1-Dichloroethene	3.12	96	359617	49.949	ug/l	98
13) Acrolein	3.02	56	38594	248.326	ug/l	94
14) Allyl chloride	3.61	41	522887	47.234	ug/l	92
15) Acrylonitrile	4.18	53	268001	244.097	ug/l	92
16) Acetone	3.21	43	606681	281.866	ug/l	99
17) Carbon Disulfide	3.37	76	1022654	48.201	ug/l	98
18) Methyl Acetate	3.63	43	155544	43.973	ug/l	96
19) Methyl tert-butyl Ether	4.23	73	855774	48.736	ug/l	98
20) Methylene Chloride	3.80	84	364388	44.762	ug/l	90
21) trans-1,2-Dichloroethene	4.20	96	372826	47.209	ug/l	97
22) Diisopropyl ether	5.11	45	1147985	49.943	ug/l	98
23) Vinyl Acetate	5.05	43	3585109	251.407	ug/l	97
24) 1,1-Dichloroethane	4.97	63	690366	46.686	ug/l	99
25) 2-Butanone	6.06	43	564084	268.634	ug/l	96
26) 2,2-Dichloropropane	6.01	77	888908	52.158	ug/l	99
27) cis-1,2-Dichloroethene	6.02	96	428081	50.001	ug/l	99
28) Bromochloromethane	6.43	49	286107	50.615	ug/l	94
29) Tetrahydrofuran	6.45	42	228428	241.565	ug/l	99
30) Chloroform	6.65	83	929139	48.973	ug/l	95
31) Cyclohexane	6.94	56	460555	49.650	ug/l	94
32) 1,1,1-Trichloroethane	6.86	97	939242	49.752	ug/l	97
36) 1,1-Dichloropropene	7.14	75	599895	49.565	ug/l	96
37) Ethyl Acetate	6.17	43	241784	46.928	ug/l #	93
38) Carbon Tetrachloride	7.10	117	976367m	51.038	ug/l	

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	523536	53.529	ug/l	90
40) Benzene	7.44	78	1166478	49.352	ug/l	100
41) Methacrylonitrile	6.44	41	317988	50.190	ug/l	93
42) 1,2-Dichloroethane	7.57	62	708873	50.317	ug/l	96
43) Isopropyl Acetate	9.23	43	333784	52.267	ug/l	97
44) Trichloroethene	8.53	130	488800	50.940	ug/l	98
45) 1,2-Dichloropropane	8.93	63	296271	52.185	ug/l	99
46) Dibromomethane	9.06	93	267543	53.089	ug/l	93
47) Bromodichloromethane	9.36	83	696064	50.775	ug/l	99
48) Methyl methacrylate	9.12	41	229056	49.648	ug/l #	82
49) 1,4-Dioxane	9.08	88	41375	1002.738	ug/l #	89
51) 4-Methyl-2-Pentanone	10.30	43	1160966	259.811	ug/l	98
52) Toluene	10.50	92	828529	52.148	ug/l	99
53) t-1,3-Dichloropropene	10.91	75	586680	52.197	ug/l	100
54) cis-1,3-Dichloropropene	10.03	75	617287	53.138	ug/l	96
55) 1,1,2-Trichloroethane	11.18	97	279308	51.262	ug/l	96
56) Ethyl methacrylate	11.04	69	287694	44.309	ug/l	90
57) 1,3-Dichloropropane	11.40	76	417559	49.445	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.84	63	590176	202.660	ug/l	97
59) 2-Hexanone	11.53	43	907673	273.071	ug/l	99
60) Dibromochloromethane	11.68	129	558213	51.899	ug/l	97
61) 1,2-Dibromoethane	11.79	107	331674	50.862	ug/l	92
64) Tetrachloroethene	11.25	164	429560	49.963	ug/l	96
65) Chlorobenzene	12.39	112	1034739	50.934	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	491561	50.733	ug/l	99
67) Ethyl Benzene	12.52	91	1829293	50.786	ug/l	99
68) m/p-Xylenes	12.66	106	1280669	101.136	ug/l	98
69) o-Xylene	13.04	106	626672	53.886	ug/l	92
70) Styrene	13.06	104	1053537	50.772	ug/l	99
71) Bromoform	13.23	173	358161	48.289	ug/l	96
73) Isopropylbenzene	13.40	105	1679914	48.828	ug/l	98
74) N-amyl acetate	13.26	43	506291	54.451	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.69	83	312661	53.111	ug/l	96
76) 1,2,3-Trichloropropane	13.72	75	341373	51.580	ug/l	96
77) Bromobenzene	13.66	156	529201	53.816	ug/l	94
78) n-propylbenzene	13.77	91	2134702	50.689	ug/l	94
79) 2-Chlorotoluene	13.83	91	1247011	50.572	ug/l	98
80) 1,3,5-Trimethylbenzene	13.93	105	1533260	50.425	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	91595	46.927	ug/l	94
82) 4-Chlorotoluene	13.94	91	1497913	50.796	ug/l	95
83) tert-Butylbenzene	14.19	119	1903321	56.753	ug/l	97
84) 1,2,4-Trimethylbenzene	14.23	105	1694781	56.294	ug/l	98
85) sec-Butylbenzene	14.36	105	1864927	53.031	ug/l	98
86) p-Isopropyltoluene	14.48	119	1752884	51.195	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	891922	50.068	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	898982	53.398	ug/l	97
89) n-Butylbenzene	14.80	91	1614868	52.426	ug/l	96
90) Hexachloroethane	15.00	117	493177	54.560	ug/l	94
91) 1,2-Dichlorobenzene	14.81	146	769826	51.986	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	62282	49.530	ug/l #	46

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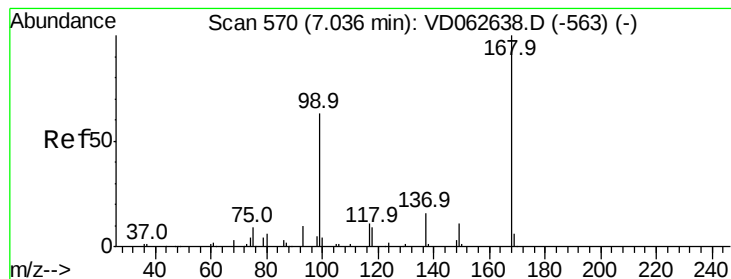
Manual Integrations
APPROVED

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	584090	46.746	ug/l	99
94) Hexachlorobutadiene	16.04	225	451872	51.684	ug/l	99
95) Naphthalene	16.12	128	814474	46.263	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	449153	52.659	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 814569

Ion Ratio Lower Upper

168 100

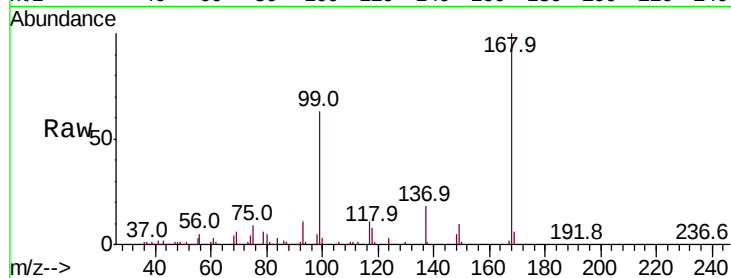
99 62.6 51.4 77.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

250000

200000

150000

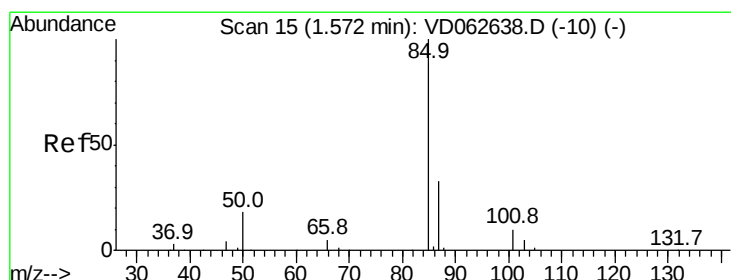
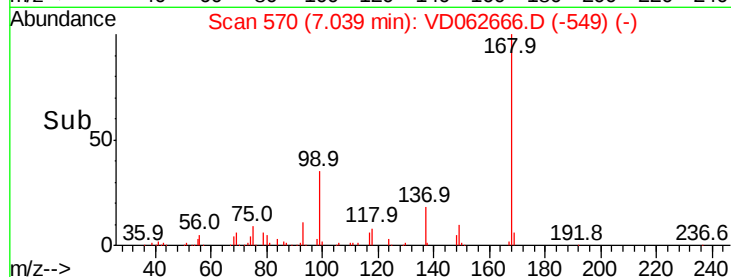
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50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 42.194 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062666.D

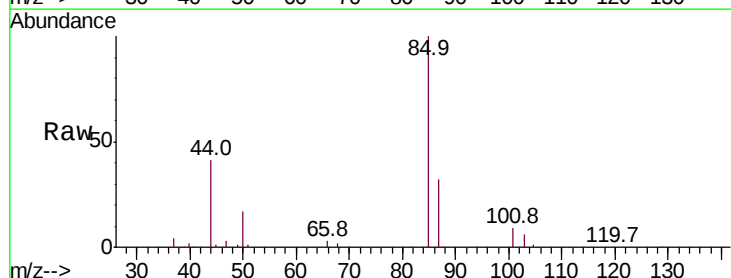
Acq: 12 Jun 2019 11:12

Tgt Ion: 85 Resp: 403389

Ion Ratio Lower Upper

85 100

87 31.9 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

150000

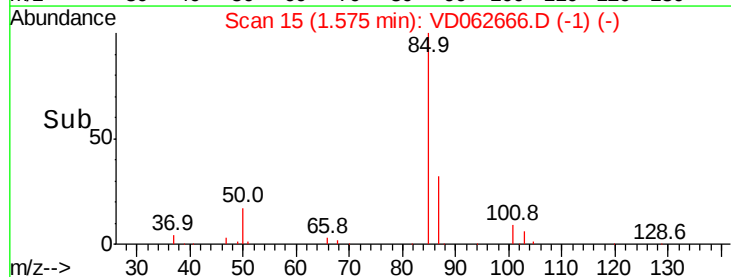
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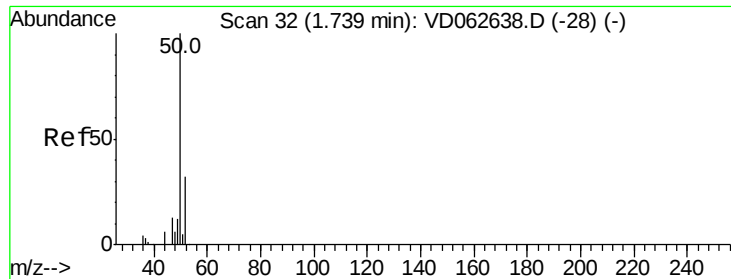
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 45.545 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 367087

Ion Ratio Lower Upper

50 100

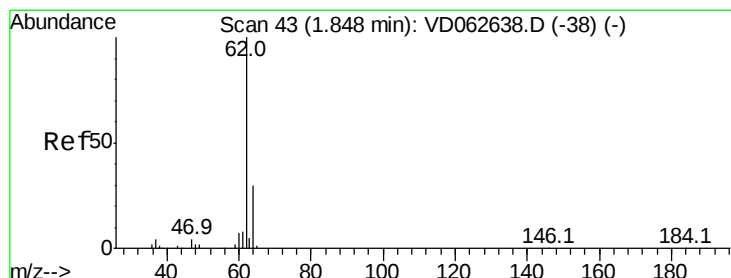
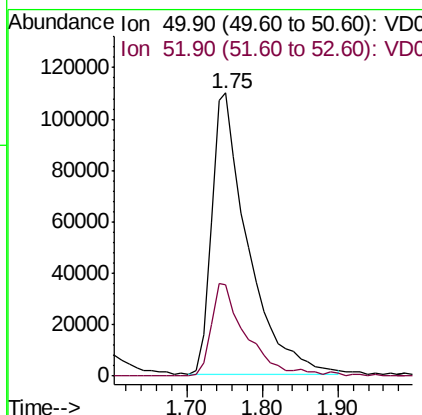
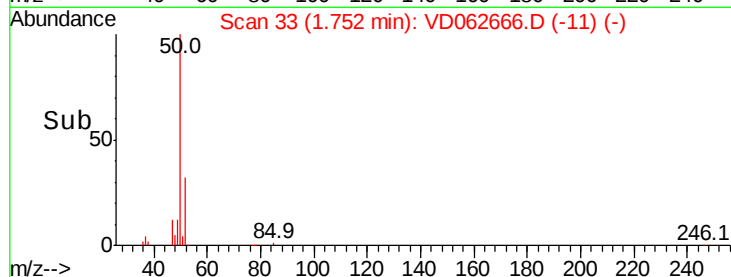
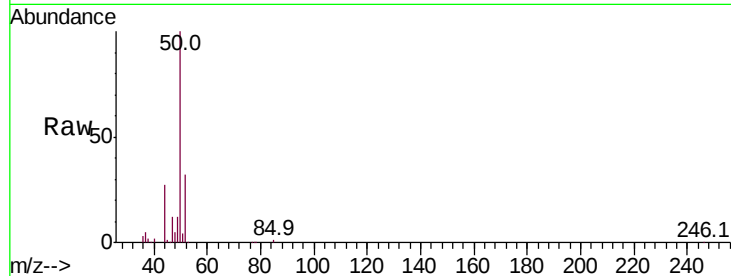
52 32.4 25.8 38.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 45.552 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.01 min

Lab File: VD062666.D

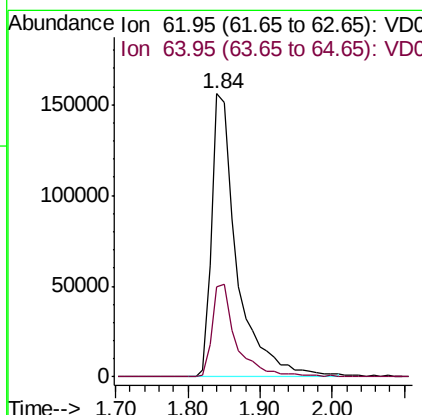
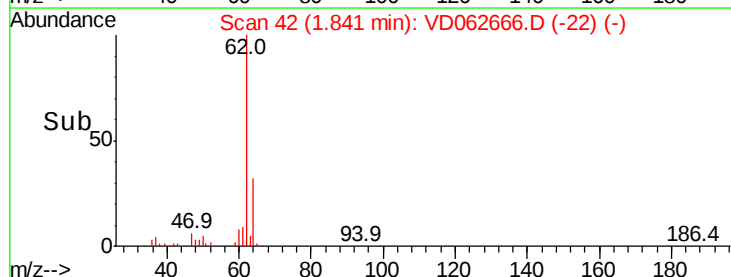
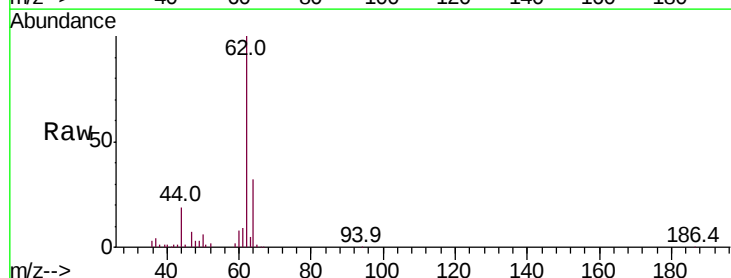
Acq: 12 Jun 2019 11:12

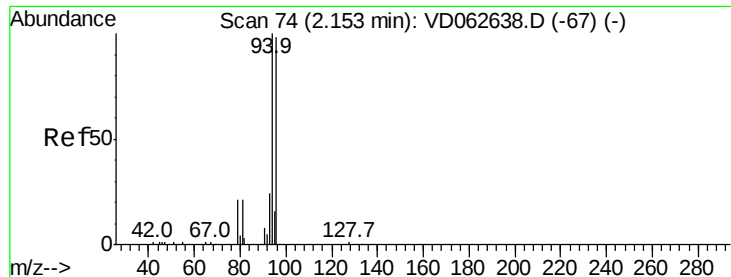
Tgt Ion: 62 Resp: 378590

Ion Ratio Lower Upper

62 100

64 31.8 24.2 36.4





#5

Bromomethane

Concen: 43.681 ug/l

RT: 2.15 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 183252

Ion Ratio Lower Upper

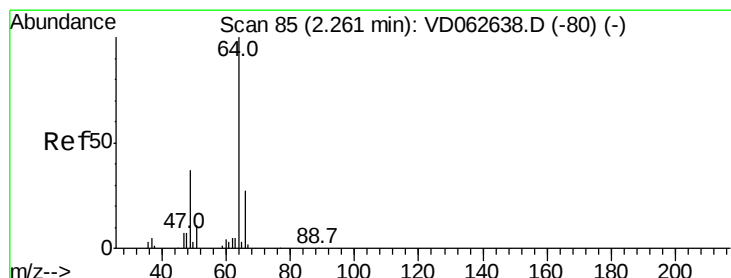
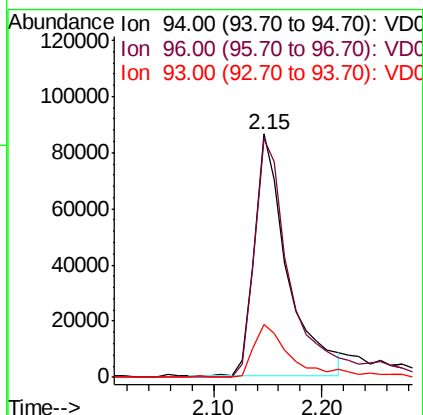
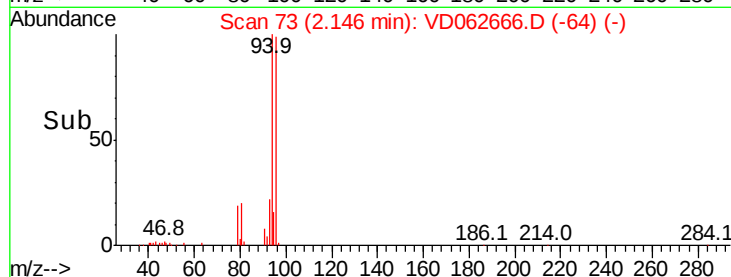
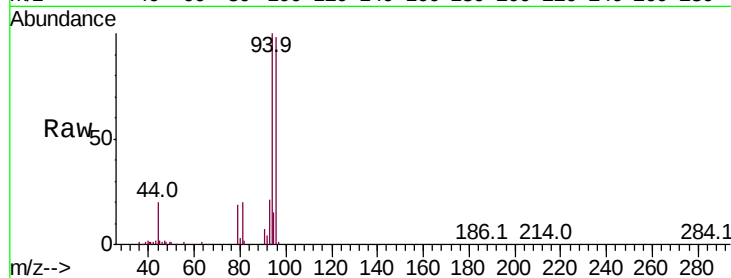
94 100

96 97.7 78.1 117.1

93 21.5 19.6 29.4

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#6

Chloroethane

Concen: 43.993 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.00 min

Lab File: VD062666.D

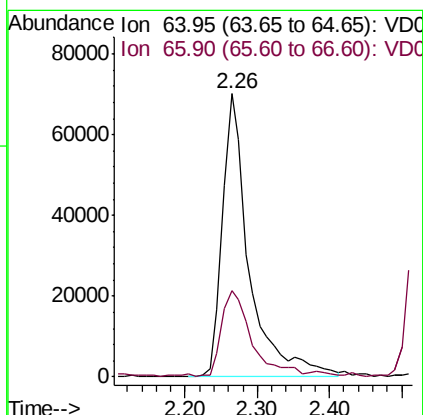
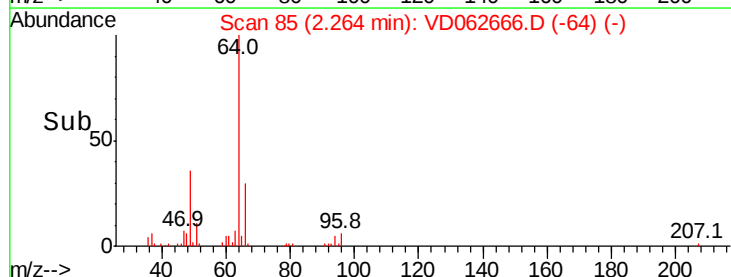
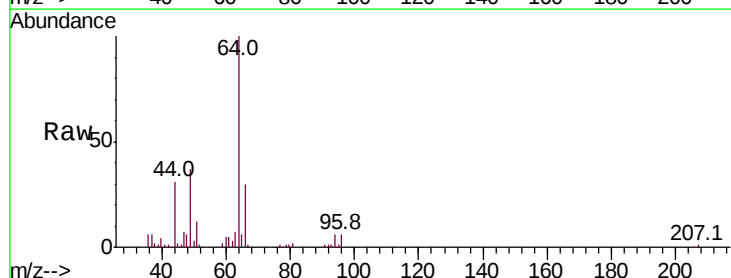
Acq: 12 Jun 2019 11:12

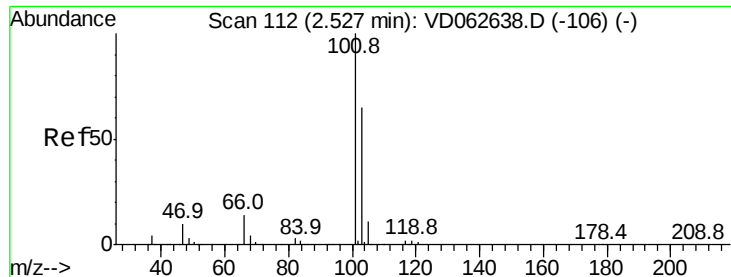
Tgt Ion: 64 Resp: 180519

Ion Ratio Lower Upper

64 100

66 30.4 21.9 32.9





#7

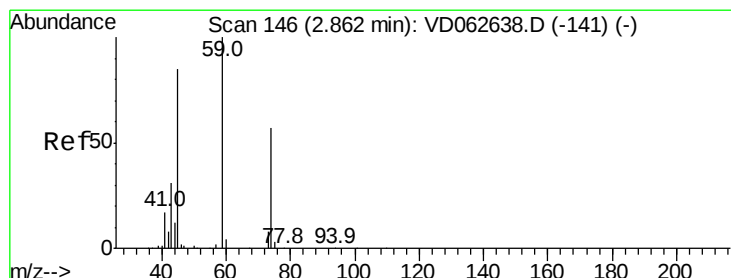
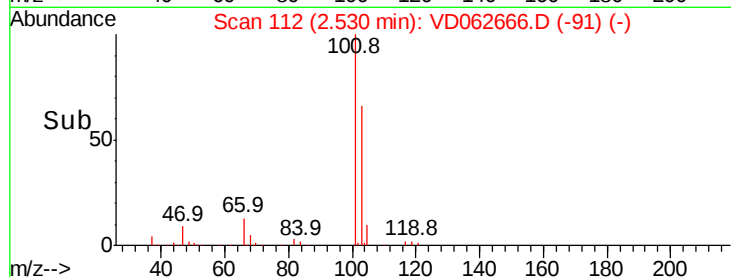
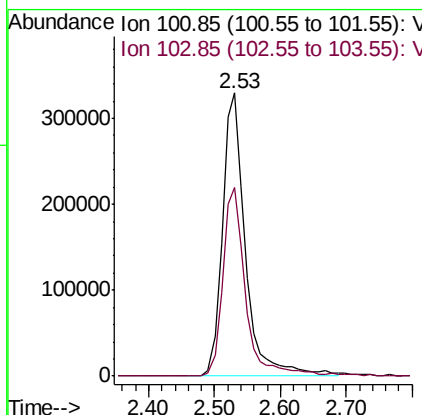
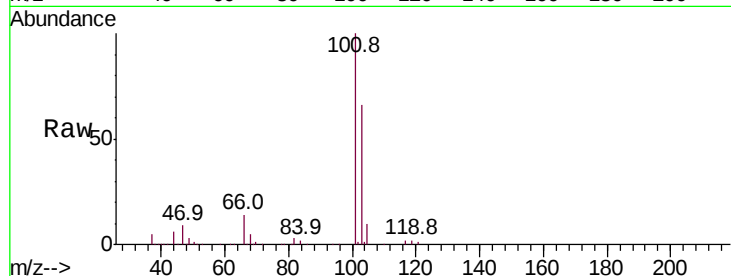
Trichlorofluoromethane
Concen: 43.084 ug/l
RT: 2.53 min Scan# 112
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

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VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	801478		
103	66.5	52.2	78.2	

Manual Integrations
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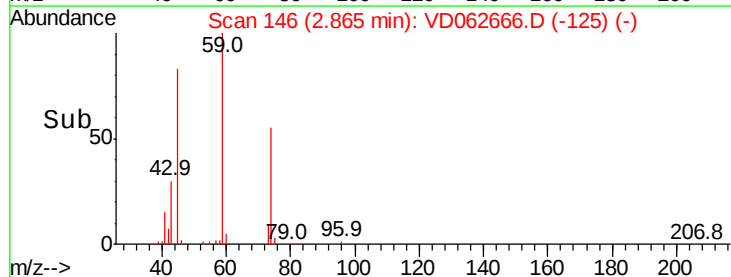
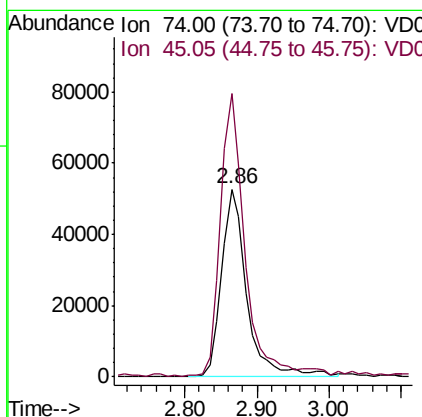
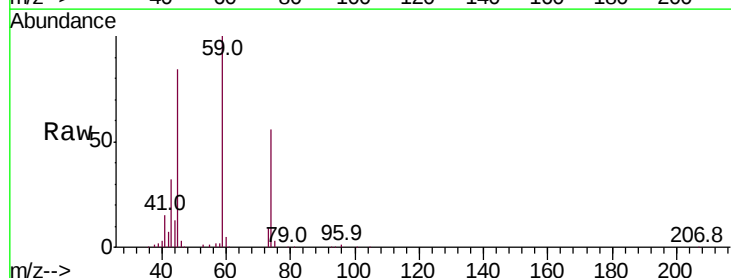
MMDadoda
6/13/2019 3:11:52 PM

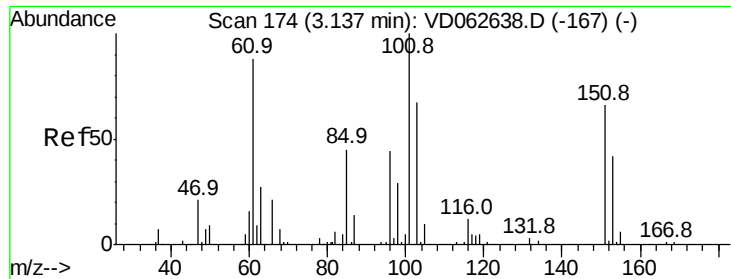


#8

Diethyl Ether
Concen: 50.573 ug/l
RT: 2.86 min Scan# 146
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	127957		
45	150.9	74.9	224.7	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.341 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

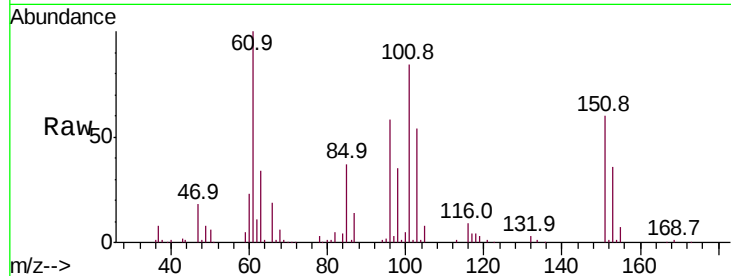
ClientSampleId :

VSTDCCC050

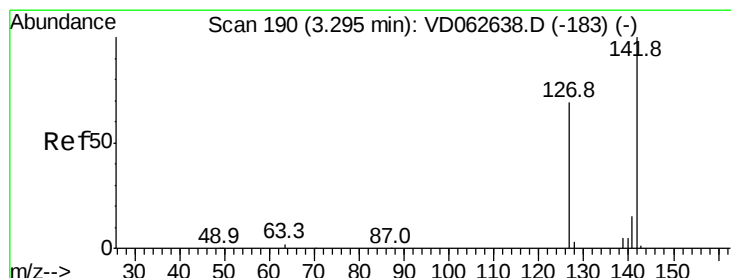
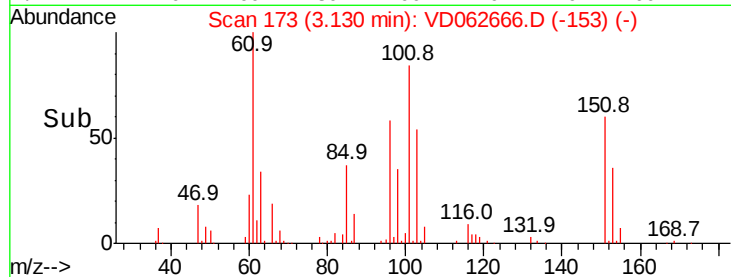
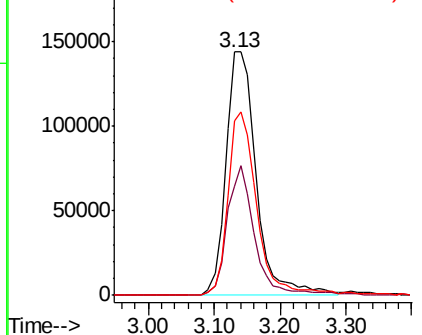
Tot Ion:	101	Resp:	464909
Ion Ratio	Lower	Upper	
101	100		
85	44.7	36.0	54.0
151	71.9	52.6	79.0

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Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 39.349 ug/l

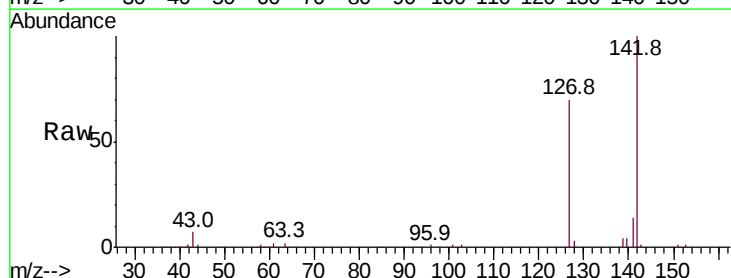
RT: 3.30 min Scan# 190

Delta R.T. 0.00 min

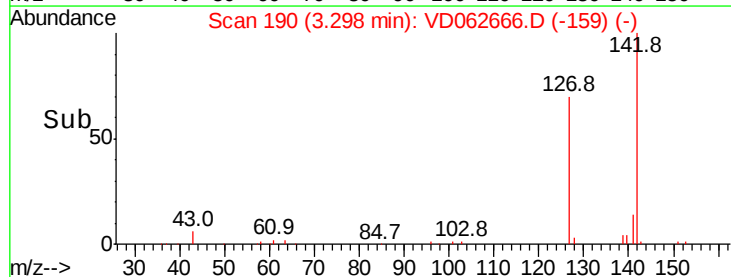
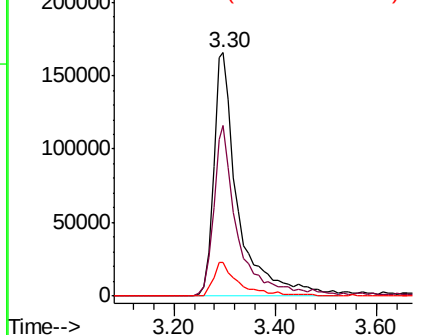
Lab File: VD062666.D

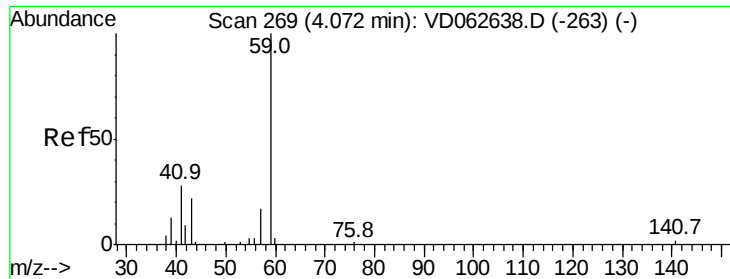
Acq: 12 Jun 2019 11:12

Tgt Ion:	142	Resp:	559535
Ion Ratio	Lower	Upper	
142	100		
127	70.0	55.2	82.8
141	13.8	12.1	18.1



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

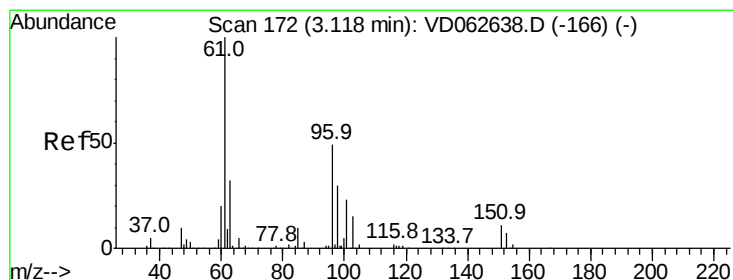
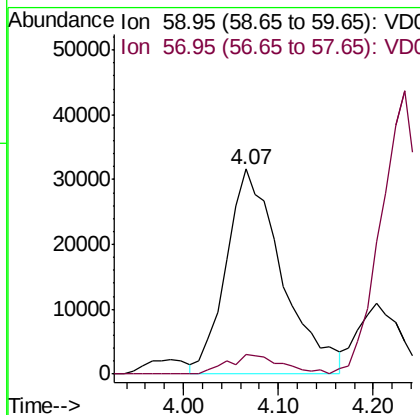
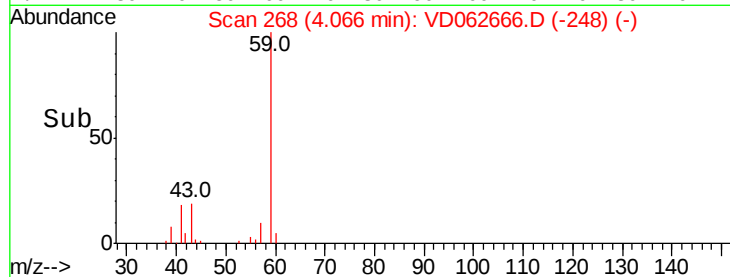
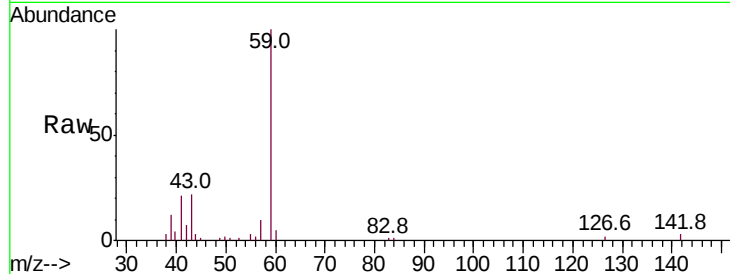
Tert butyl alcohol
 Concen: 266.124 ug/l m
 RT: 4.07 min Scan# 268
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 59 Resp: 128579
 Ion Ratio Lower Upper
 59 100
 57 9.6 13.7 20.5#

Manual Integrations
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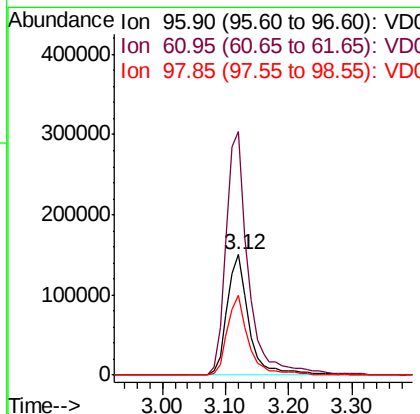
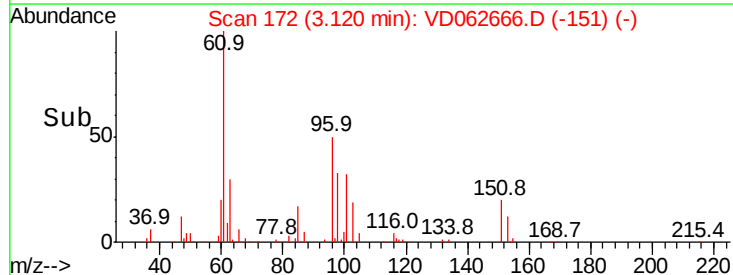
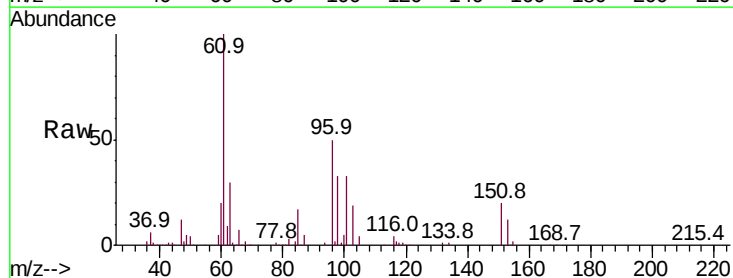
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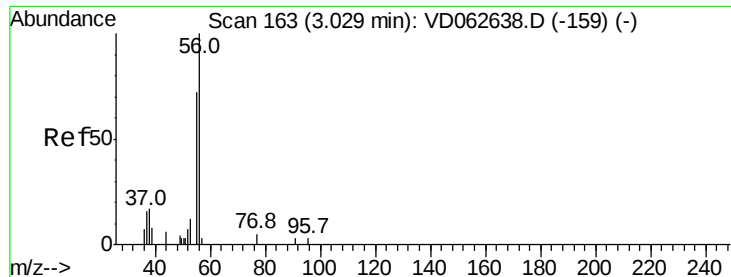


#12

1,1-Dichloroethene
 Concen: 49.949 ug/l
 RT: 3.12 min Scan# 172
 Delta R.T. 0.00 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion: 96 Resp: 359617
 Ion Ratio Lower Upper
 96 100
 61 201.9 161.8 242.8
 98 65.9 48.2 72.4





#13

Acrolein

Concen: 248.326 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 38594

Ion Ratio Lower Upper

56 100

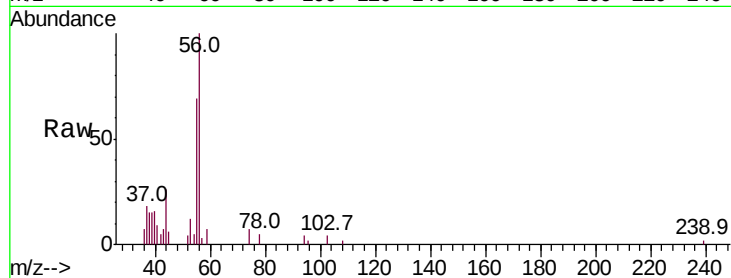
55 69.3 59.4 89.0

Manual Integrations

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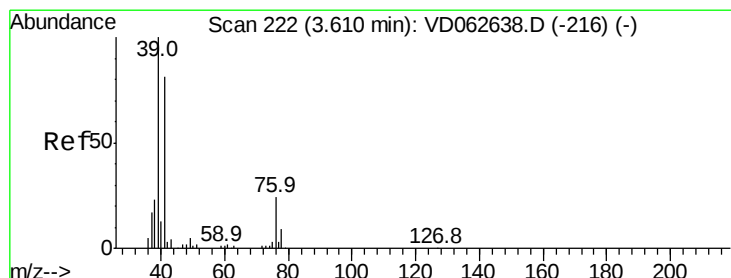
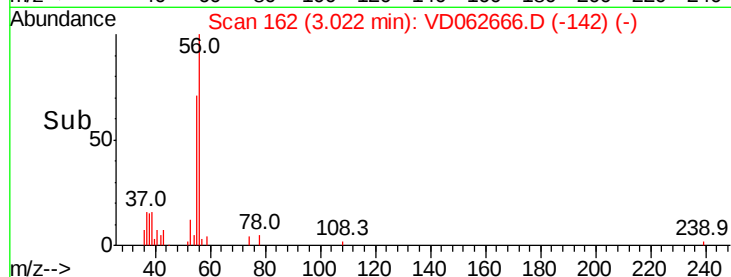
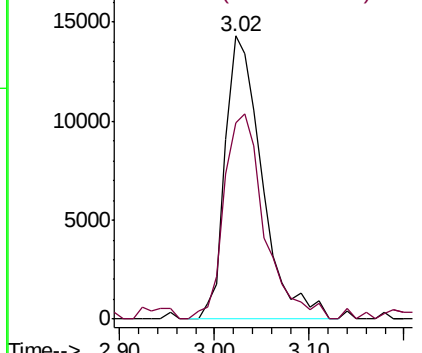
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 47.234 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.00 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

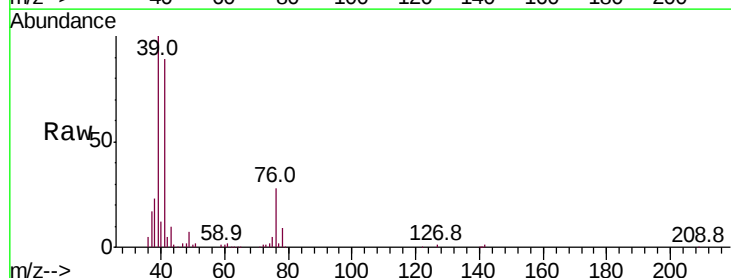
Tgt Ion: 41 Resp: 522887

Ion Ratio Lower Upper

41 100

39 112.9 99.1 148.7

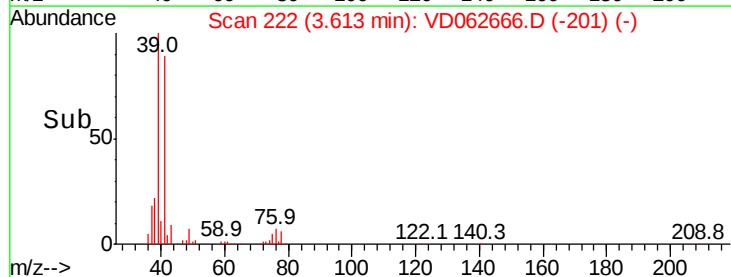
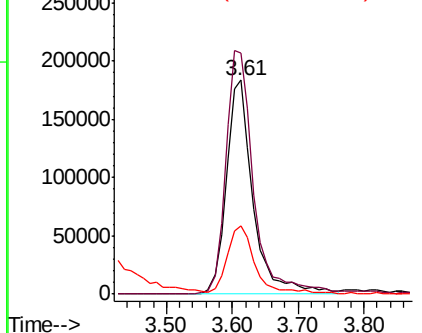
76 31.7 25.0 37.6

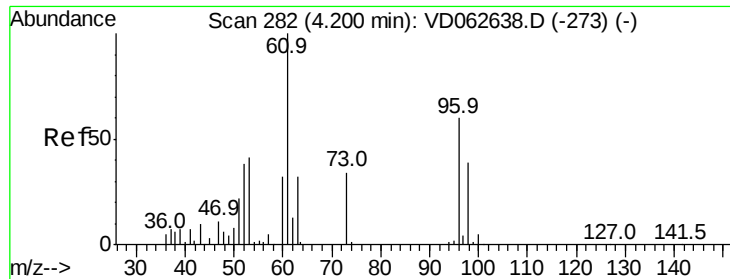


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 244.097 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.02 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

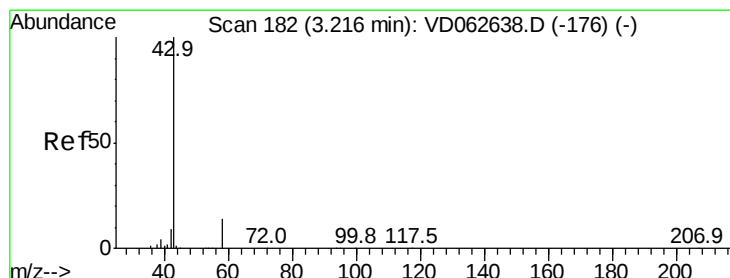
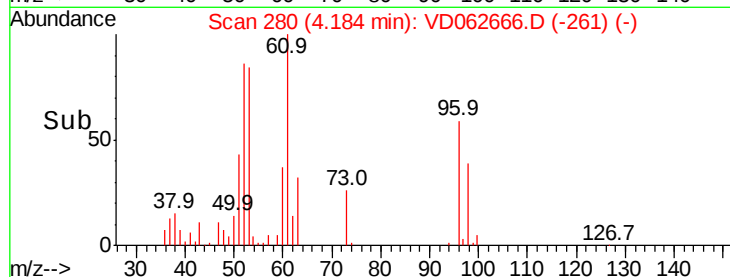
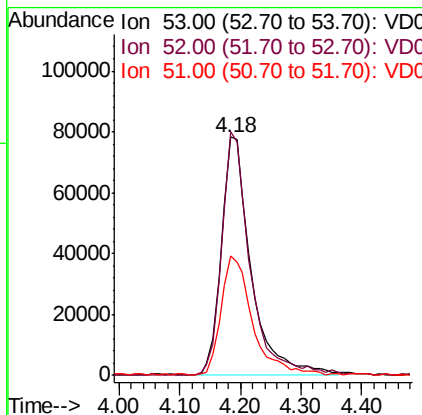
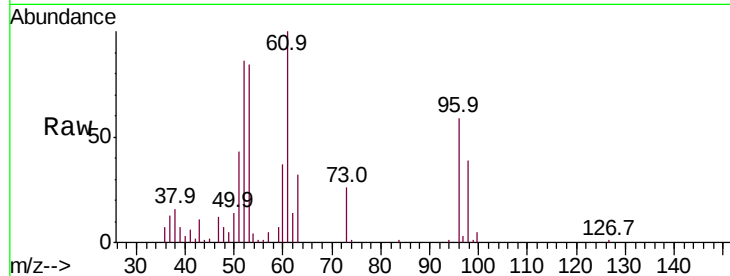
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	268001
Ion Ratio	Lower	Upper	
53	100		
52	102.3	73.6	110.4
51	50.5	42.0	63.0

Manual Integrations
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#16

Acetone

Concen: 281.866 ug/l

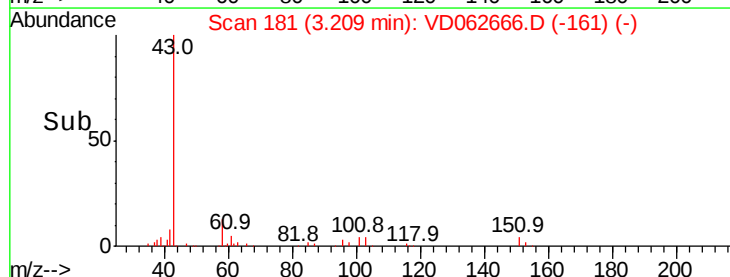
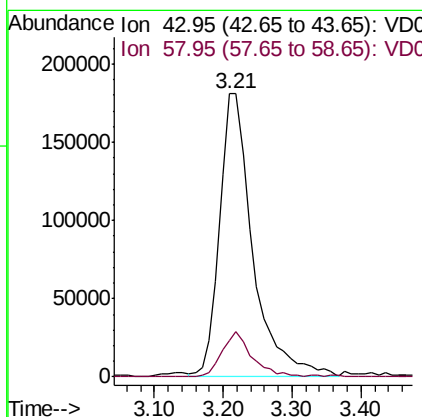
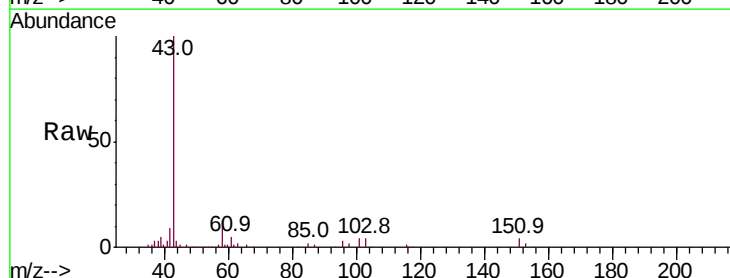
RT: 3.21 min Scan# 181

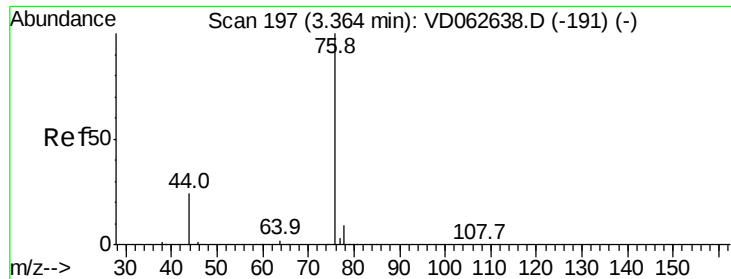
Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion:	43	Resp:	606681
Ion Ratio	Lower	Upper	
43	100		
58	13.0	10.8	16.2





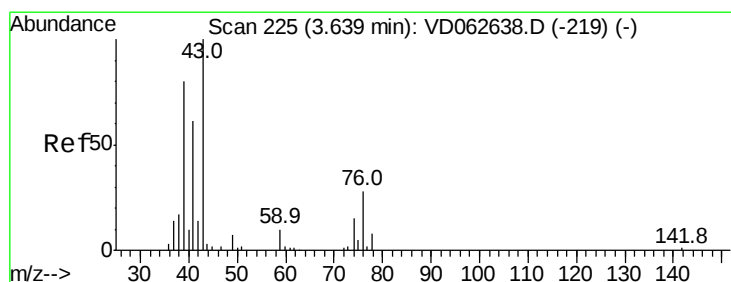
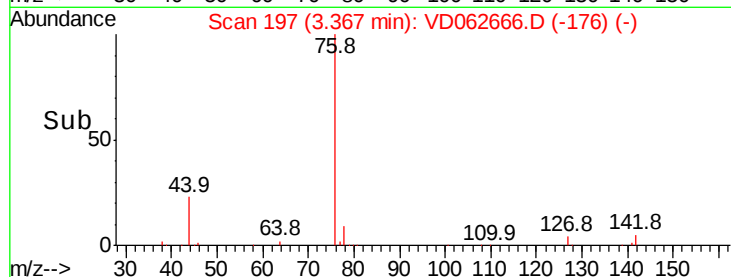
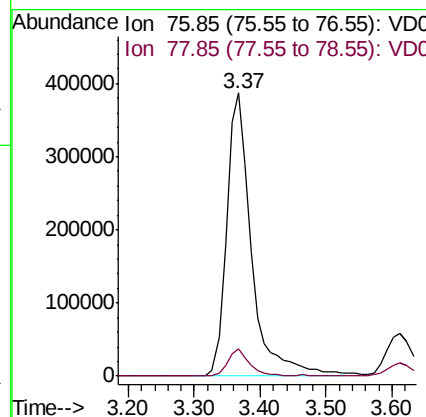
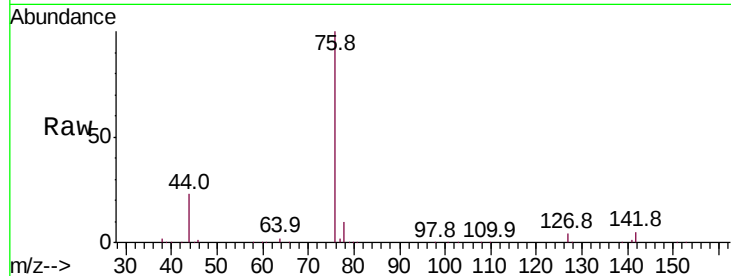
#17
Carbon Disulfide
Concen: 48.201 ug/l
RT: 3.37 min Scan# 197
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1022654
Ion Ratio Lower Upper
76 100
78 9.5 7.0 10.4

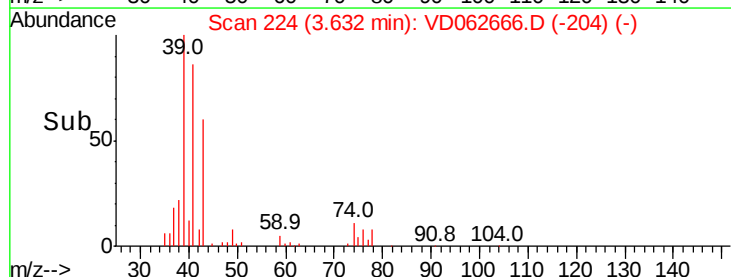
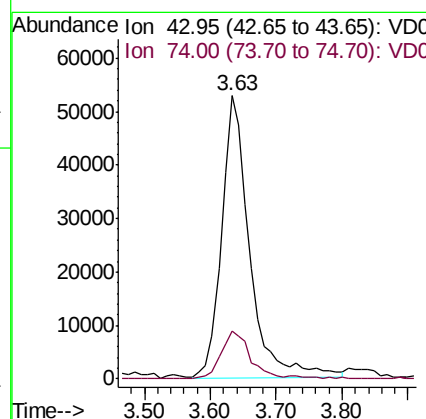
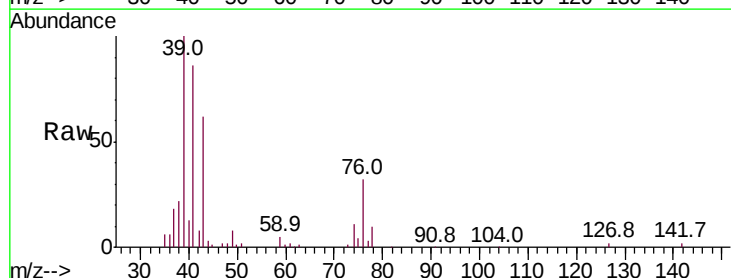
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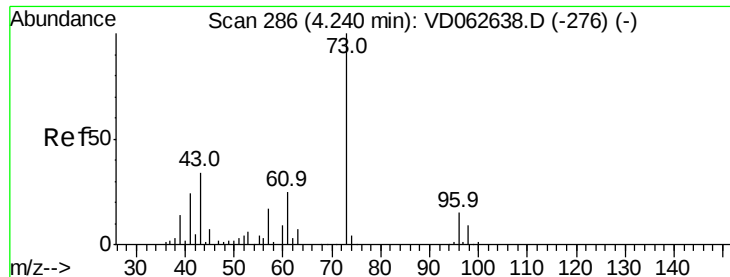
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#18
Methyl Acetate
Concen: 43.973 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 43 Resp: 155544
Ion Ratio Lower Upper
43 100
74 16.9 12.1 18.1





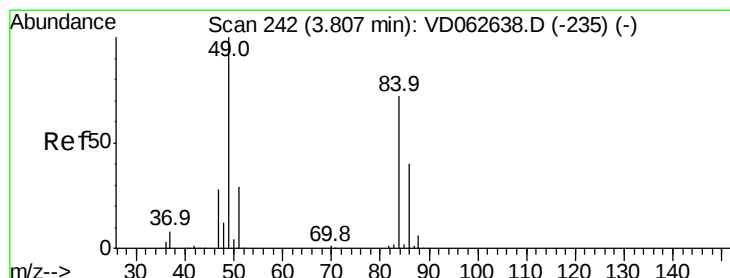
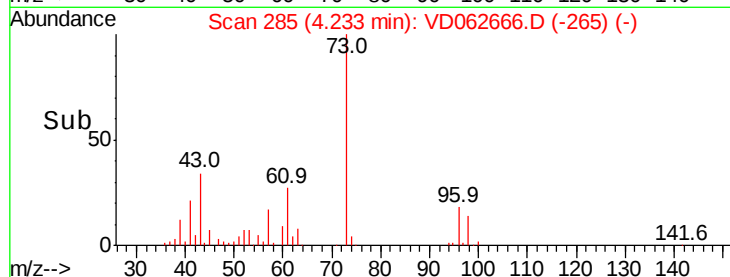
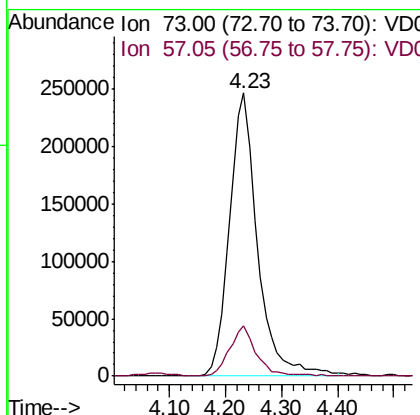
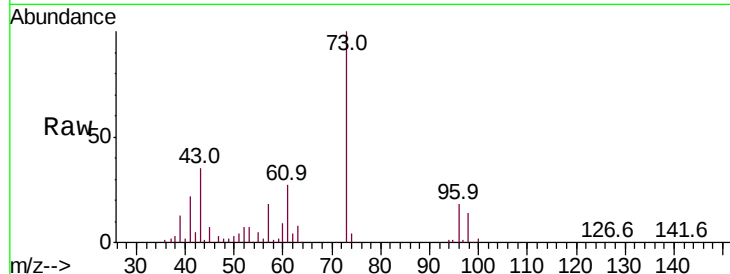
#19
Methyl tert-butyl Ether
Concen: 48.736 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 855774
Ion Ratio Lower Upper
73 100
57 17.7 13.5 20.3

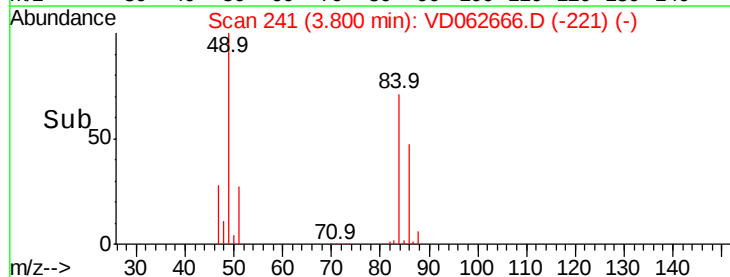
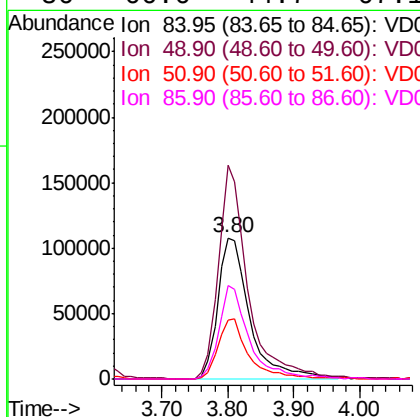
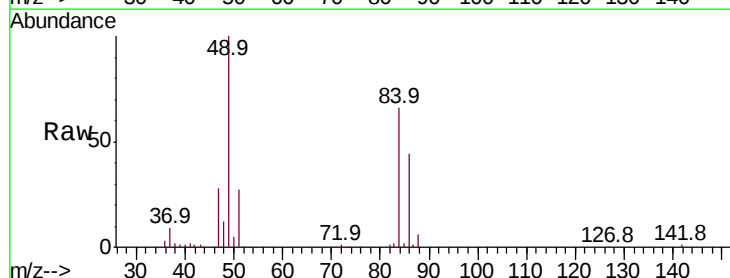
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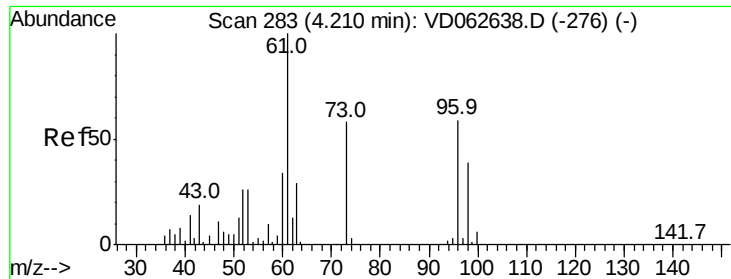
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#20
Methylene Chloride
Concen: 44.762 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 84 Resp: 364388
Ion Ratio Lower Upper
84 100
49 151.5 111.2 166.8
51 41.5 31.9 47.9
86 66.6 44.7 67.1





#21

trans-1,2-Dichloroethene

Concen: 47.209 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 372826

Ion Ratio Lower Upper

96 100

61 173.8 134.6 201.8

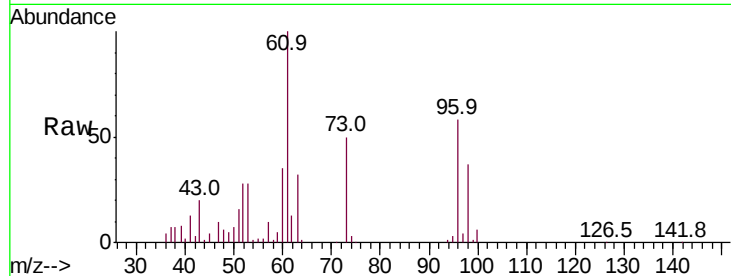
98 63.6 51.8 77.8

Manual Integrations

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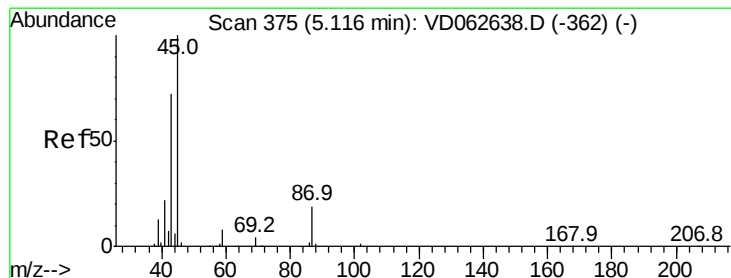
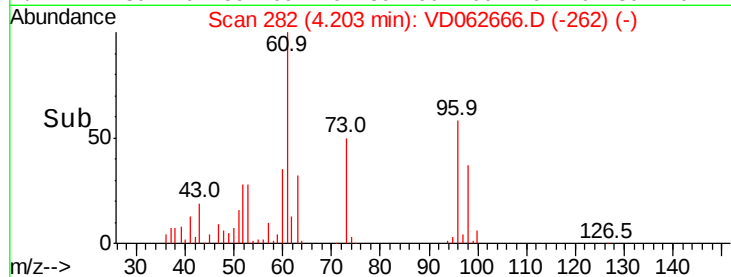
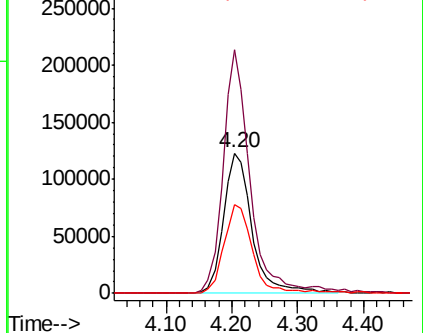
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Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 49.943 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion: 45 Resp: 1147985

Ion Ratio Lower Upper

45 100

43 75.1 58.8 88.2

87 19.9 15.7 23.5

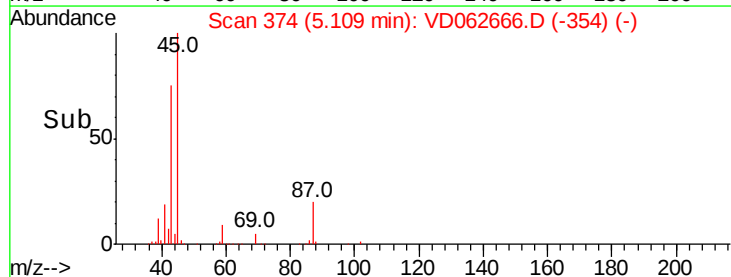
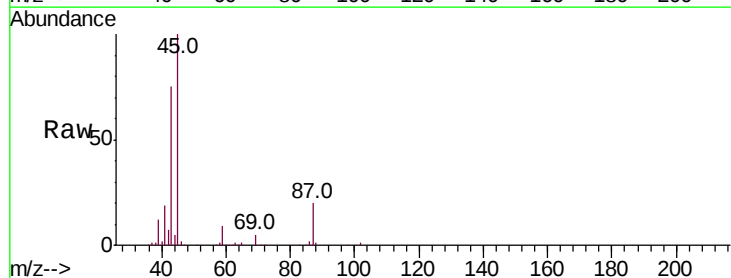
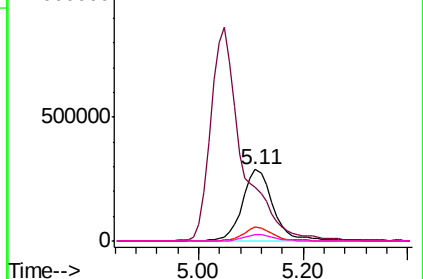
59 9.1 6.6 9.8

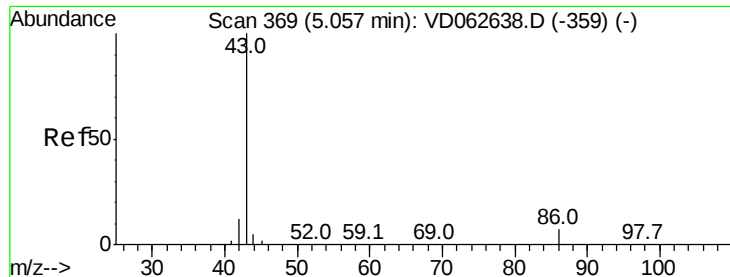
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





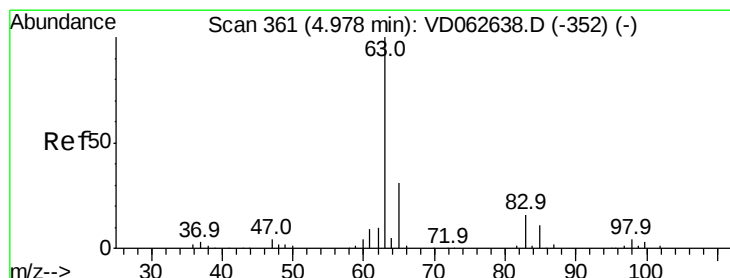
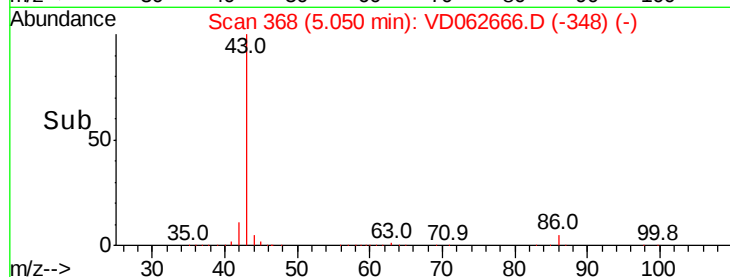
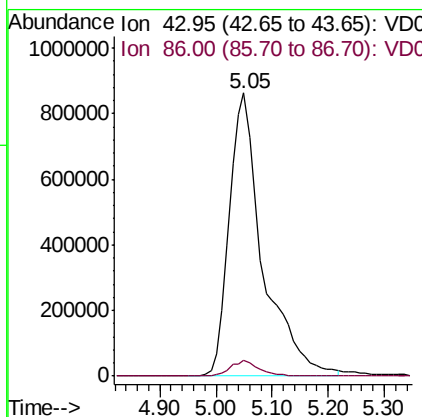
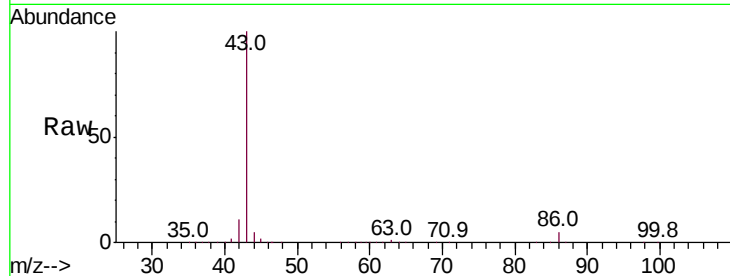
#23
 Vinyl Acetate
 Concen: 251.407 ug/l
 RT: 5.05 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 3585109
 Ion Ratio Lower Upper
 43 100
 86 5.4 5.3 7.9

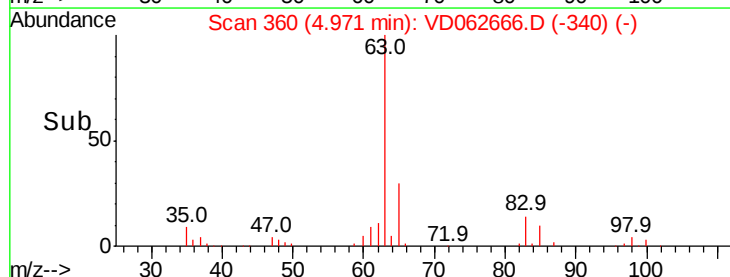
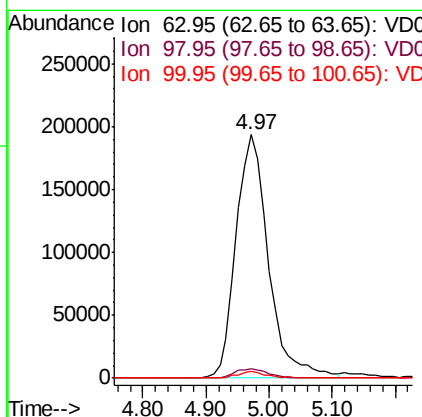
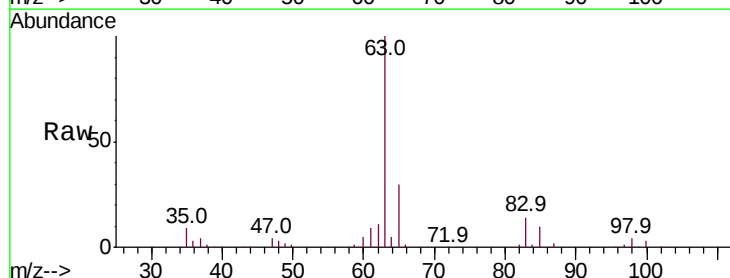
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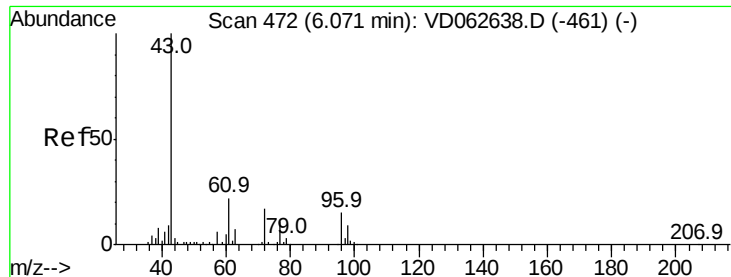
MMDadoda
 6/13/2019 3:11:52 PM



#24
 1,1-Dichloroethane
 Concen: 46.686 ug/l
 RT: 4.97 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion: 63 Resp: 690366
 Ion Ratio Lower Upper
 63 100
 98 3.9 1.8 5.4
 100 2.8 1.5 4.4





#25

2-Butanone

Concen: 268.634 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 564084

Ion Ratio Lower Upper

43 100

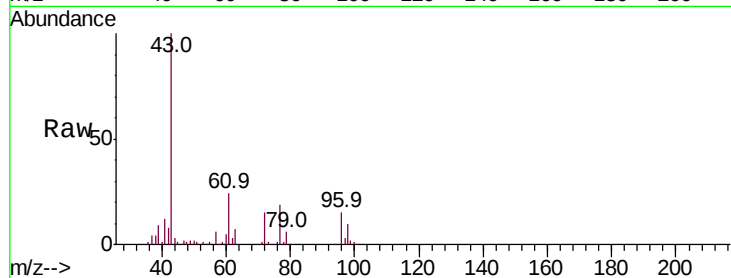
72 15.2 13.5 20.3

Manual Integrations

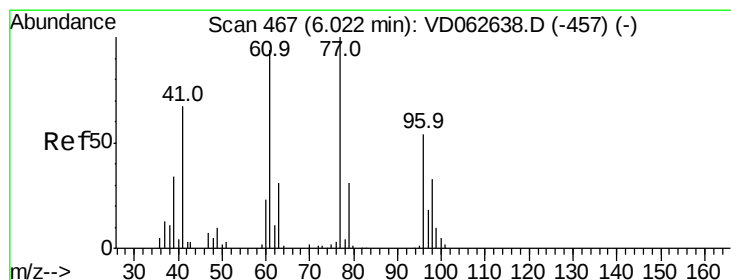
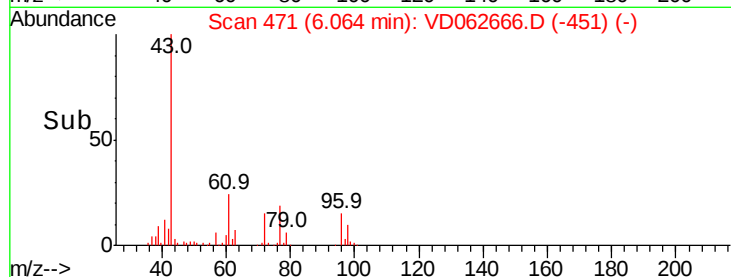
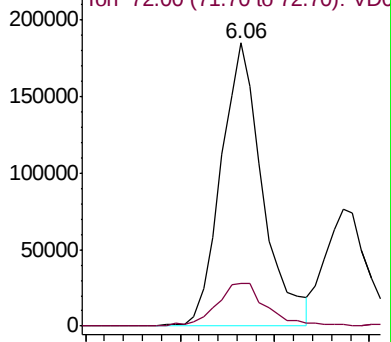
APPROVED

MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC



#26

2,2-Dichloropropane

Concen: 52.158 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.01 min

Lab File: VD062666.D

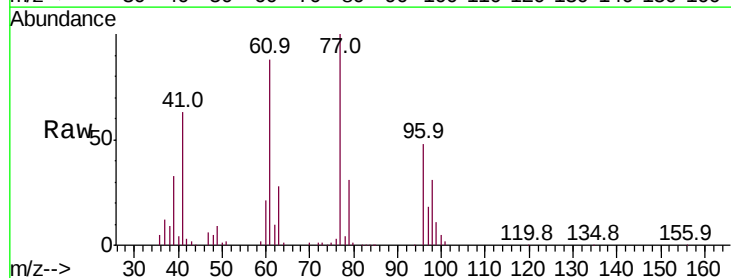
Acq: 12 Jun 2019 11:12

Tgt Ion: 77 Resp: 888908

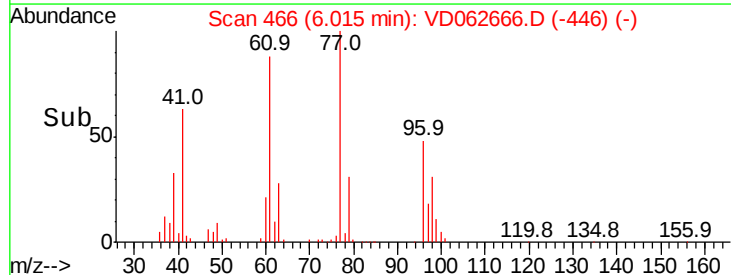
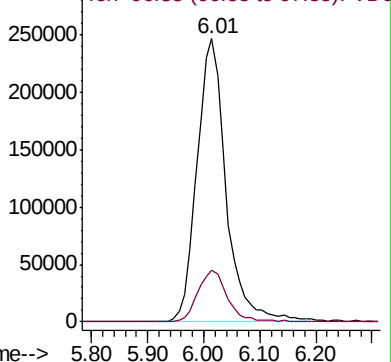
Ion Ratio Lower Upper

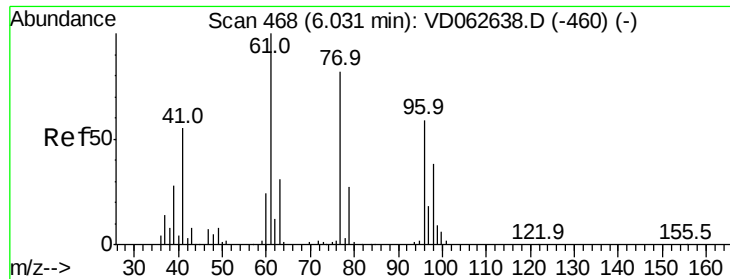
77 100

97 18.1 8.8 26.5



Abundance Ion 76.95 (76.65 to 77.65): VDC





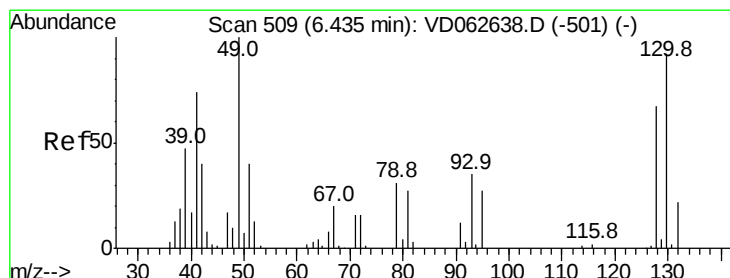
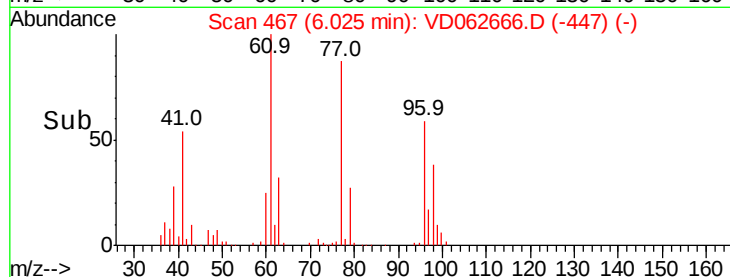
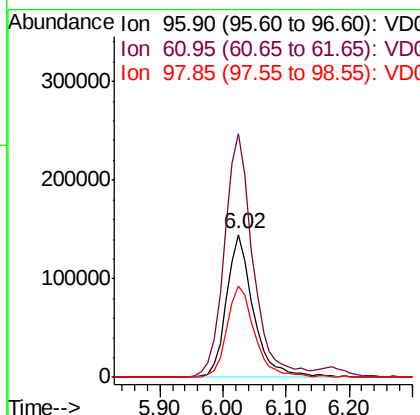
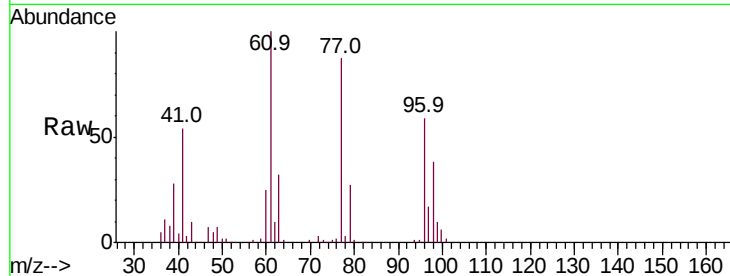
#27
 cis-1,2-Dichloroethene
 Concen: 50.001 ug/l
 RT: 6.02 min Scan# 467
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	170.9	0.0	340.0
98	64.3	0.0	127.6

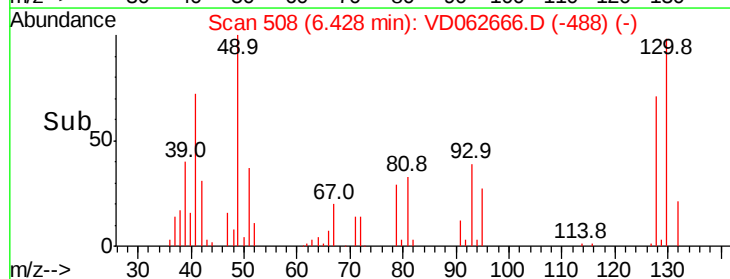
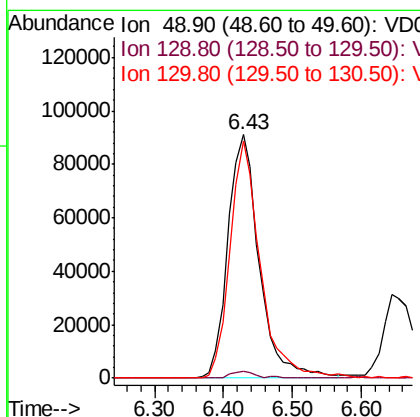
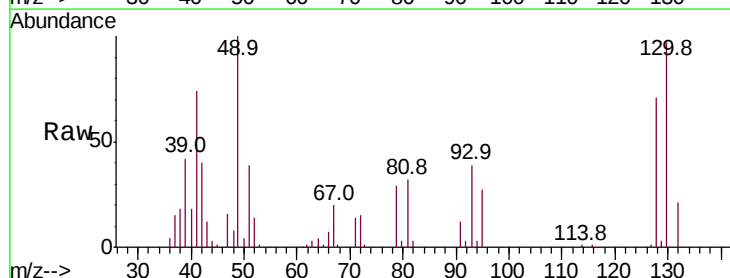
Manual Integrations
 APPROVED

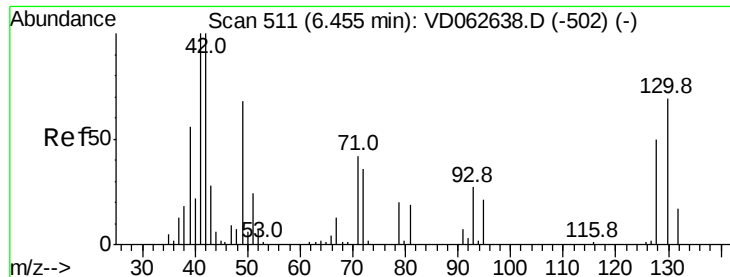
MMDadoda
 6/13/2019 3:11:52 PM



#28
 Bromochloromethane
 Concen: 50.615 ug/l
 RT: 6.43 min Scan# 508
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.1	0.0	8.2
130	97.3	73.4	110.0





#29

Tetrahydrofuran

Concen: 241.565 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 42 Resp: 228428

Ion Ratio Lower Upper

42 100

72 42.2 33.8 50.6

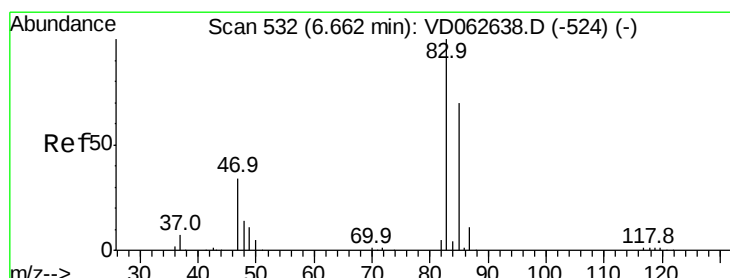
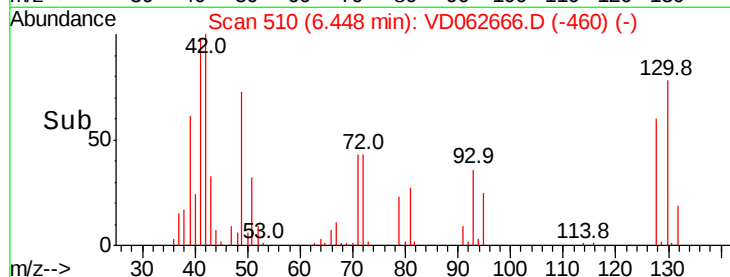
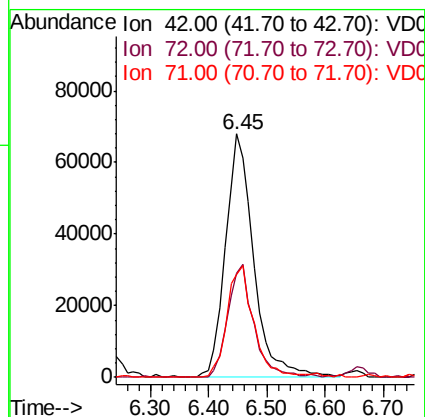
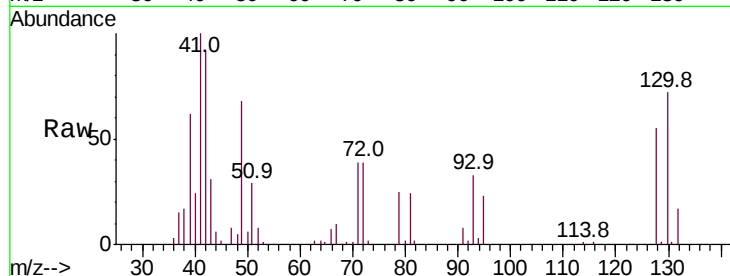
71 43.6 34.2 51.4

Manual Integrations

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#30

Chloroform

Concen: 48.973 ug/l

RT: 6.65 min Scan# 531

Delta R.T. -0.01 min

Lab File: VD062666.D

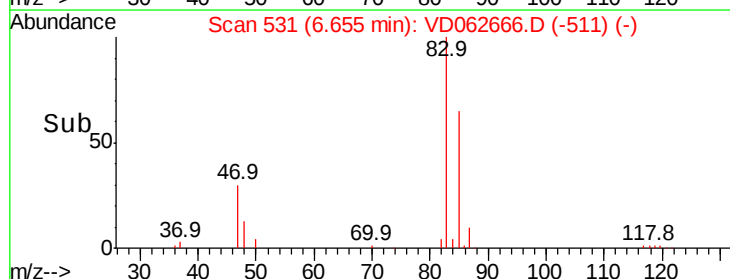
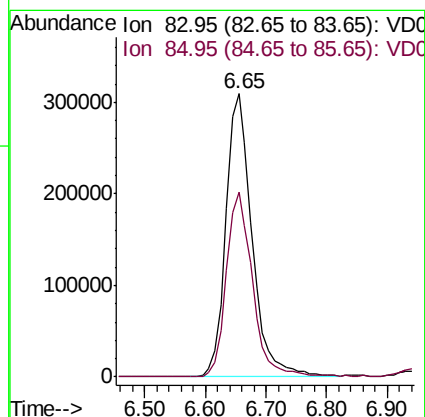
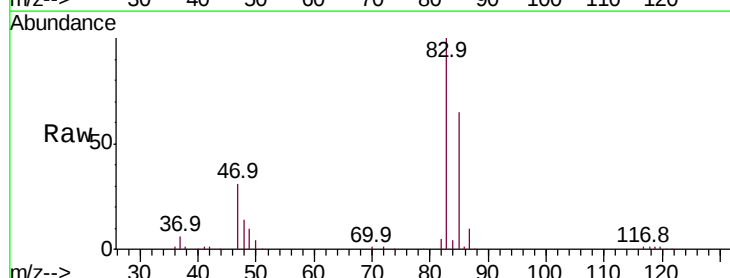
Acq: 12 Jun 2019 11:12

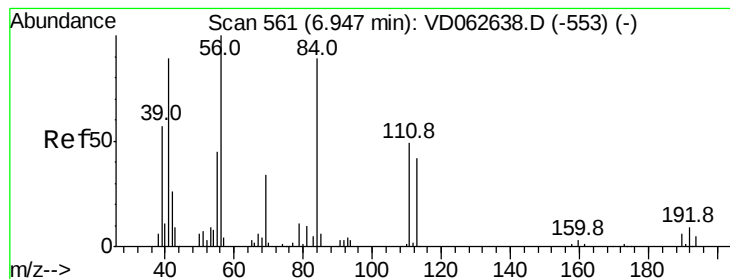
Tgt Ion: 83 Resp: 929139

Ion Ratio Lower Upper

83 100

85 65.4 55.8 83.6





#31

Cvclohexane

Concen: 49.650 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 460555

Ion Ratio Lower Upper

56 100

69 30.6 26.8 40.2

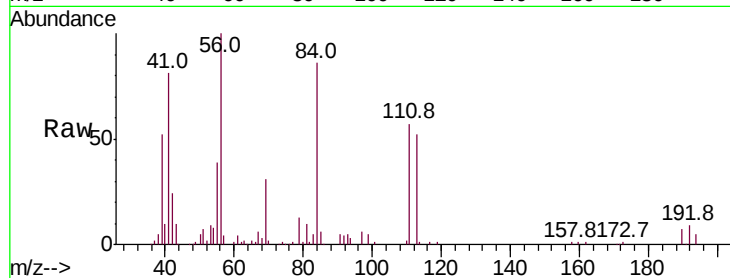
84 86.2 73.9 110.9

Manual Integrations

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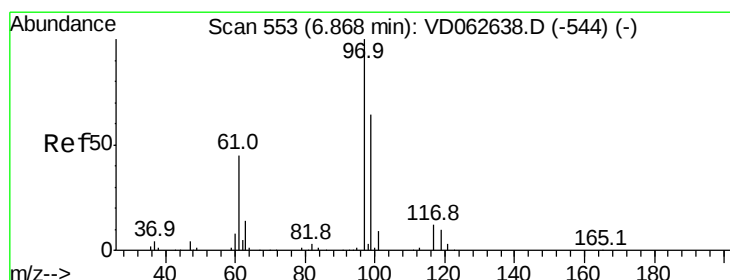
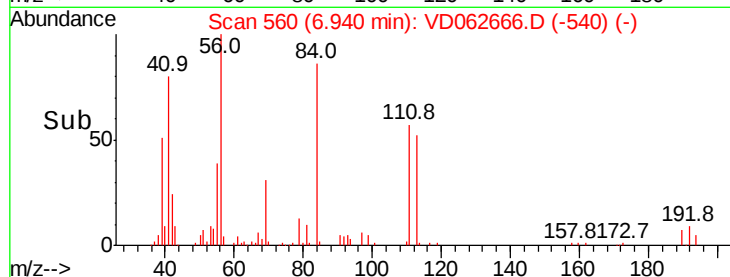
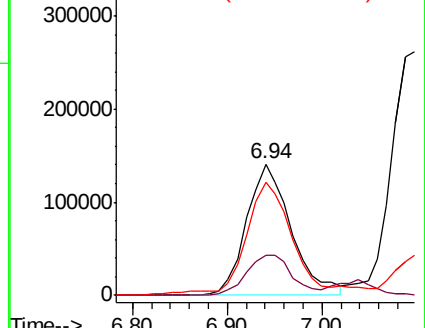
6/13/2019 3:11:52 PM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 49.752 ug/l

RT: 6.86 min Scan# 552

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

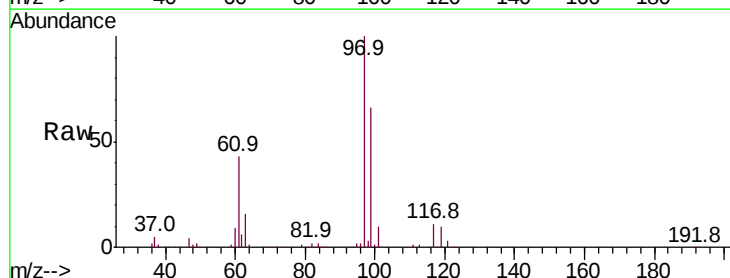
Tgt Ion: 97 Resp: 939242

Ion Ratio Lower Upper

97 100

99 66.3 51.4 77.0

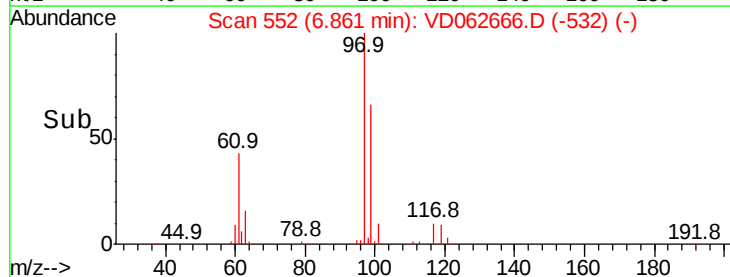
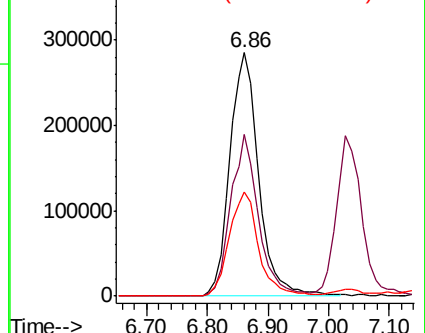
61 42.9 35.6 53.4

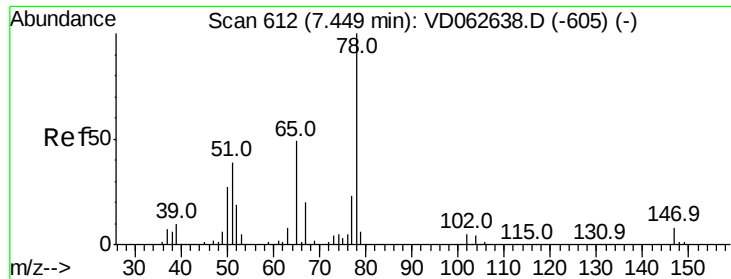


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC





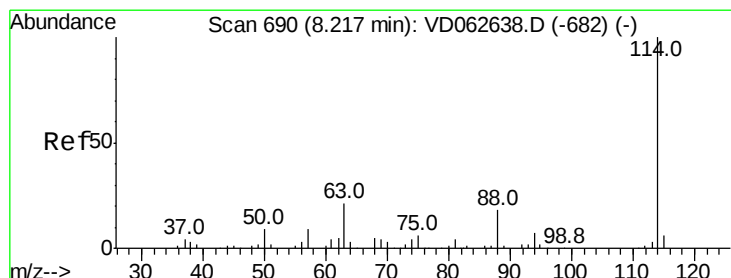
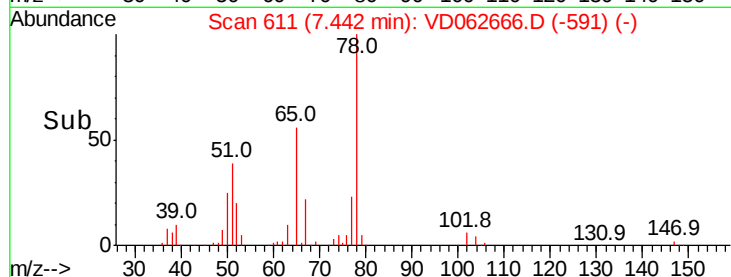
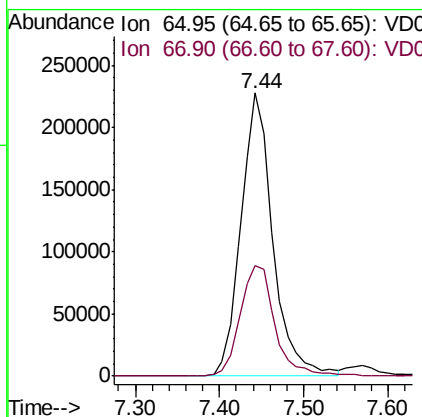
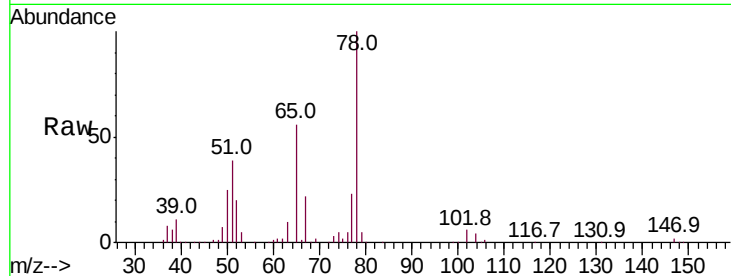
#33
 1,2-Dichloroethane-d4
 Concen: 51.275 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion: 65 Resp: 602691
 Ion Ratio Lower Upper
 65 100
 67 39.2 0.0 81.8

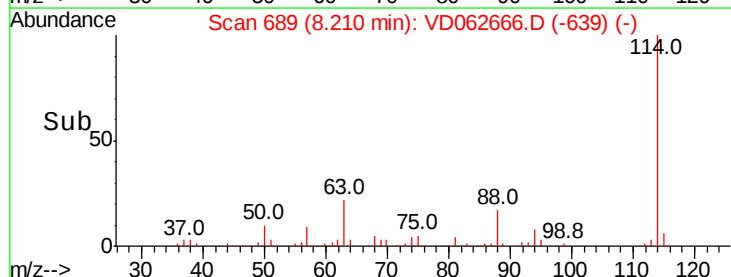
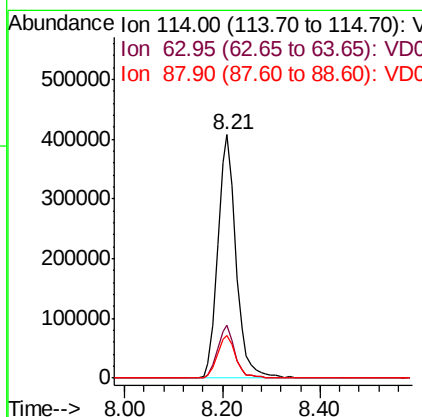
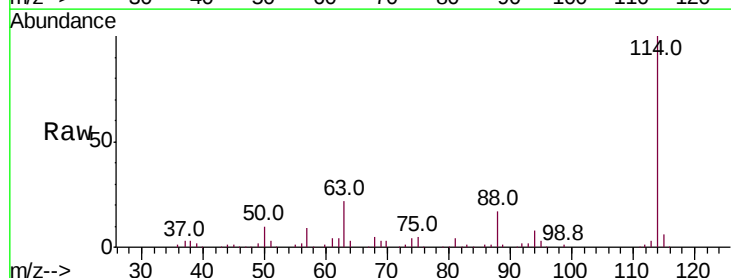
Manual Integrations
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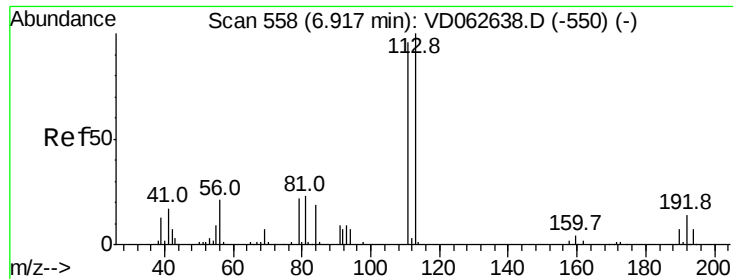
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion: 114 Resp: 1057504
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 42.4
 88 17.3 0.0 36.8





#35

Dibromofluoromethane

Concen: 53.213 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

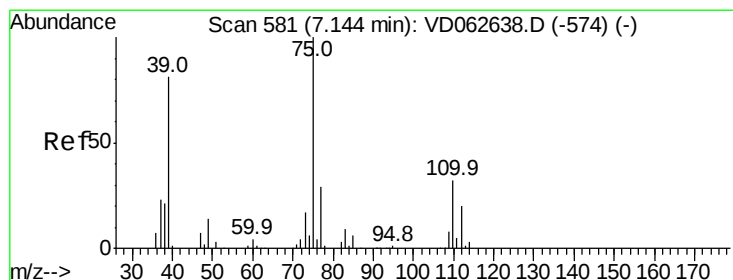
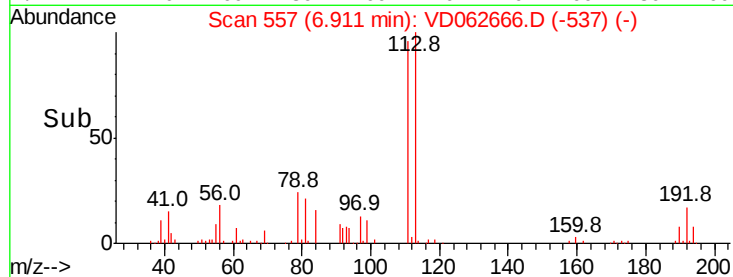
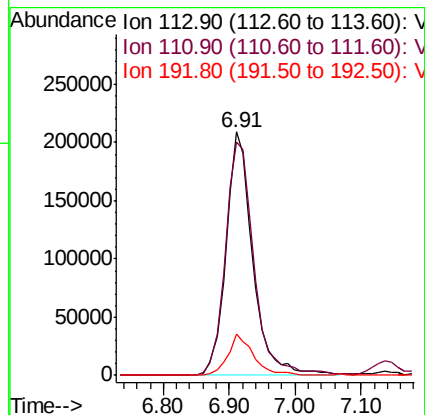
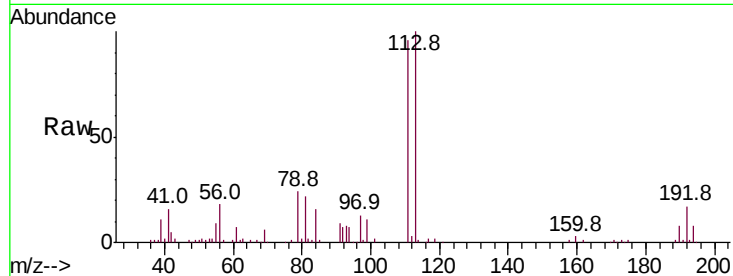
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	593471
Ion Ratio	Lower	Upper	
113	100		
111	95.9	76.4	114.6
192	16.9	11.4	17.0

Manual Integrations
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MMDadoda
6/13/2019 3:11:52 PM



#36

1,1-Dichloropropene

Concen: 49.565 ug/l

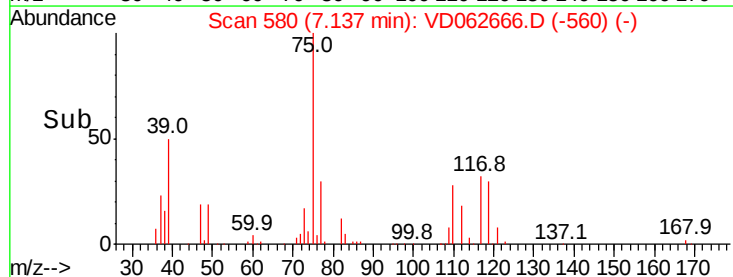
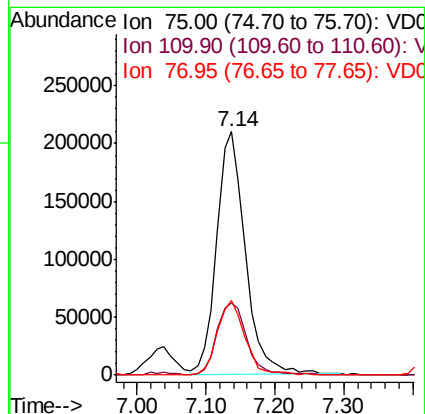
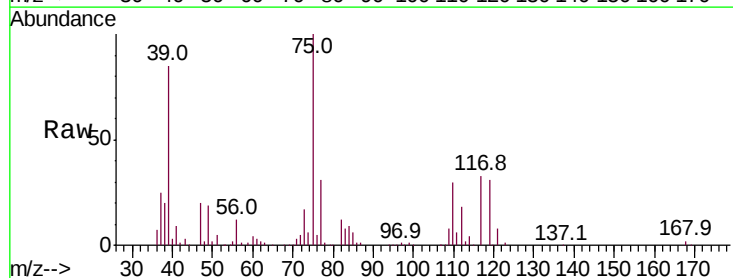
RT: 7.14 min Scan# 580

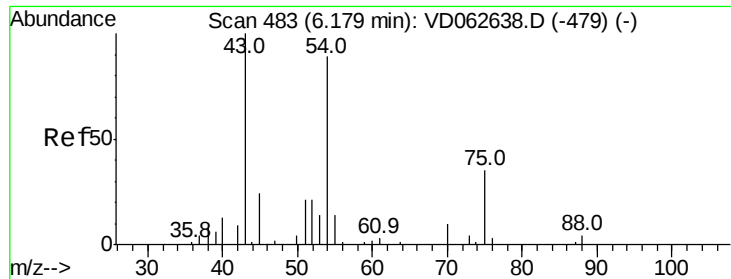
Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion:	75	Resp:	599895
Ion Ratio	Lower	Upper	
75	100		
110	29.6	15.9	47.7
77	30.7	23.3	34.9





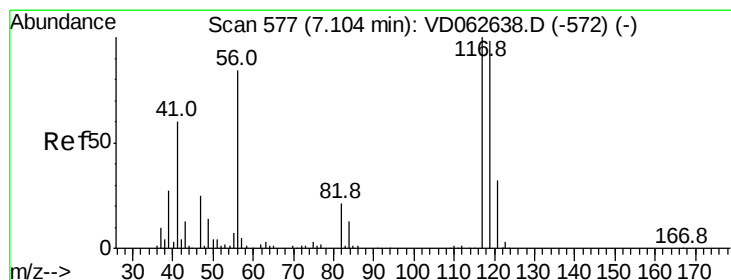
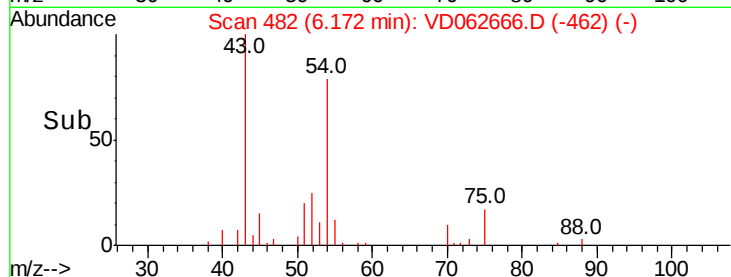
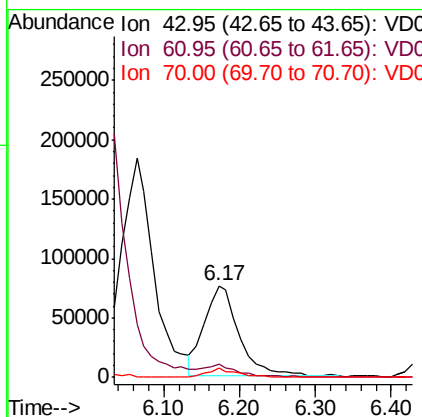
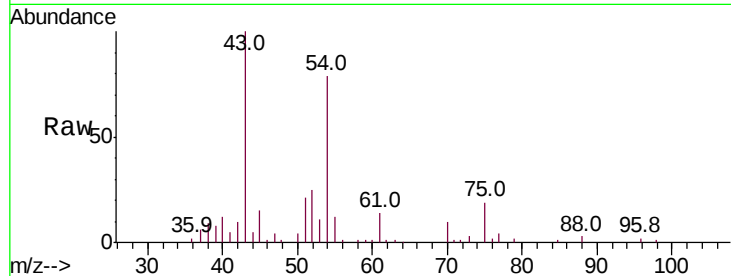
#37
Ethyl Acetate
Concen: 46.928 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	8.7	13.1#
70	9.9	6.5	9.7#

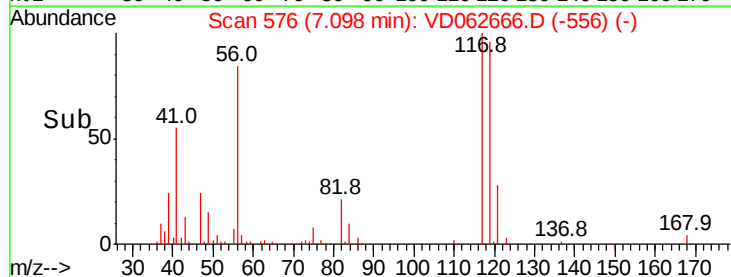
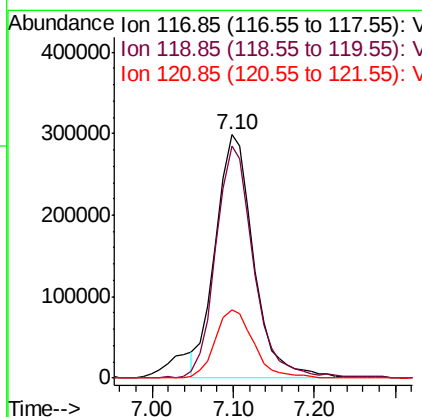
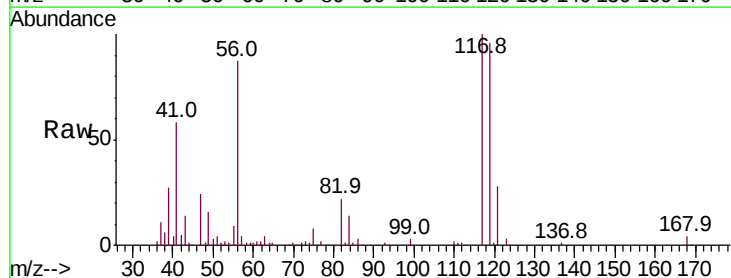
Manual Integrations
APPROVED

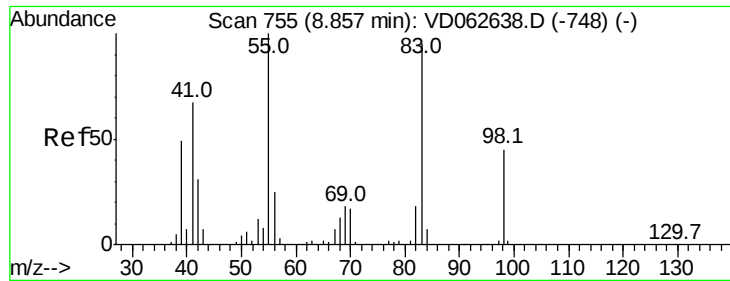
MMDadoda
6/13/2019 3:11:52 PM



#38
Carbon Tetrachloride
Concen: 51.038 ug/l m
RT: 7.10 min Scan# 576
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	73.5	110.3
121	28.2	24.2	36.4





#39

Methvlcvclohexane

Concen: 53.529 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.00 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

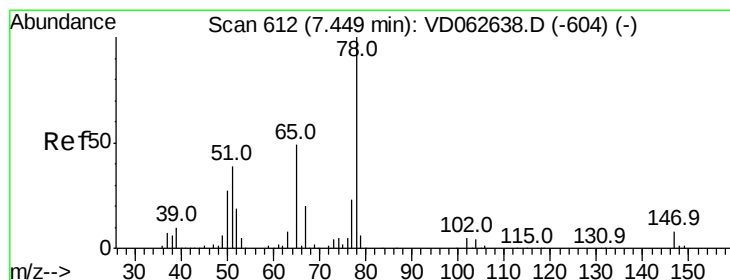
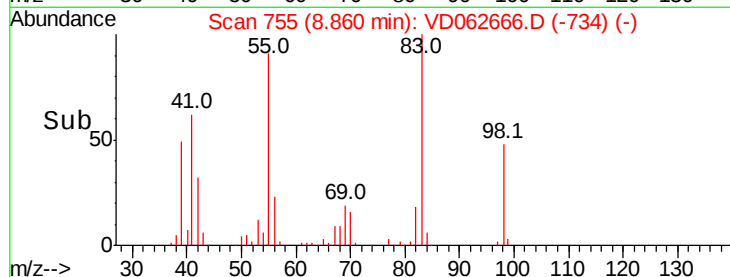
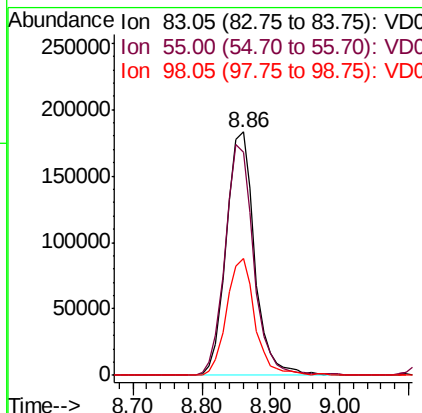
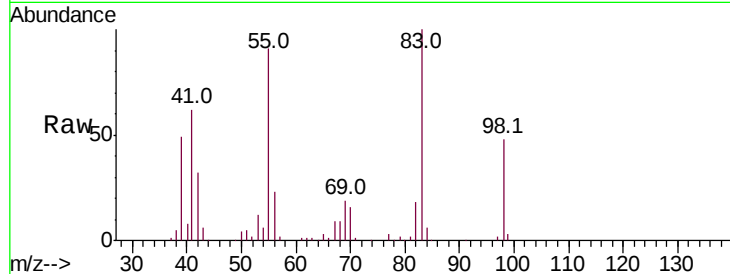
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	523536
Ion	Ratio	Lower	Upper
83	100		
55	91.4	84.6	127.0
98	48.1	38.2	57.4

Manual Integrations
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6/13/2019 3:11:52 PM



#40

Benzene

Concen: 49.352 ug/l

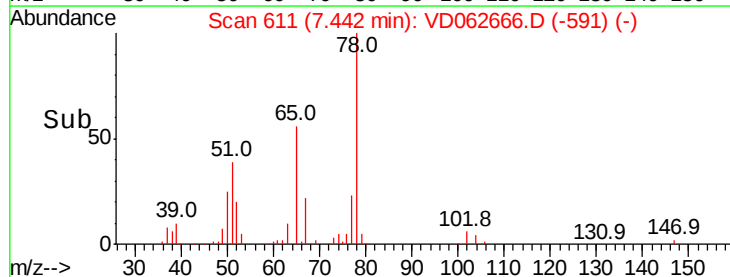
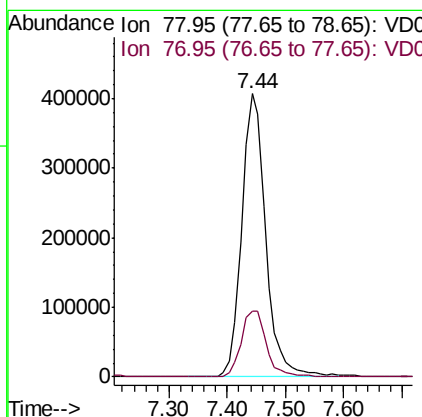
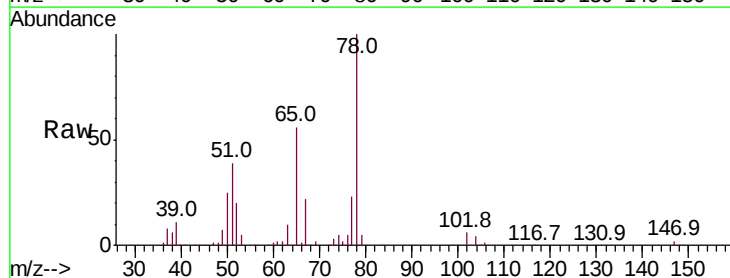
RT: 7.44 min Scan# 611

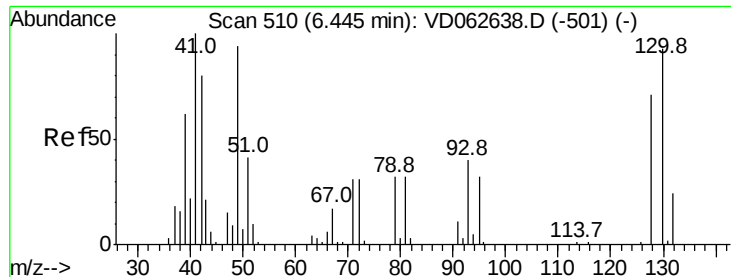
Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion:	78	Resp:	1166478
Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	28.0





#41

Methacrylonitrile

Concen: 50.190 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 317988

Ion Ratio Lower Upper

41 100

39 54.3 49.2 73.8

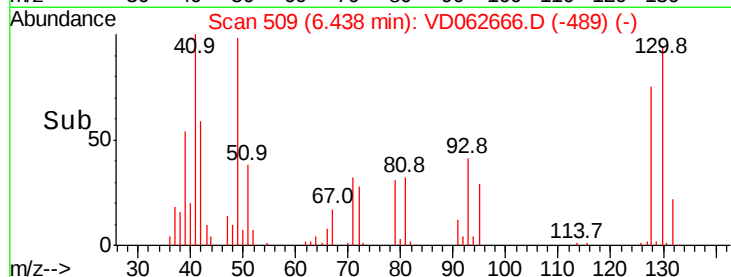
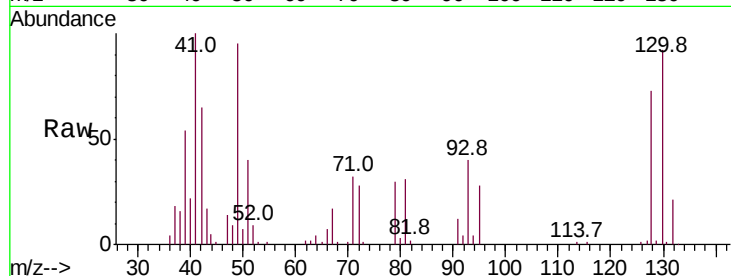
67 17.0 13.9 20.9

52 9.0 7.6 11.4

Manual Integrations
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MMDadoda

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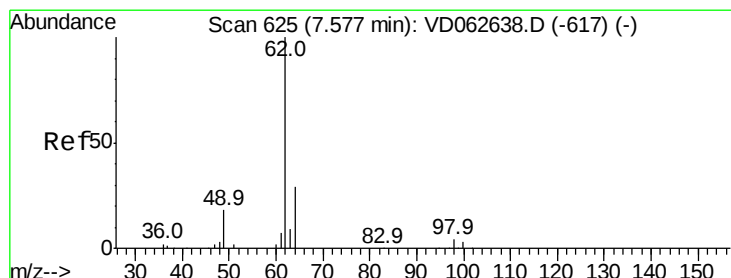
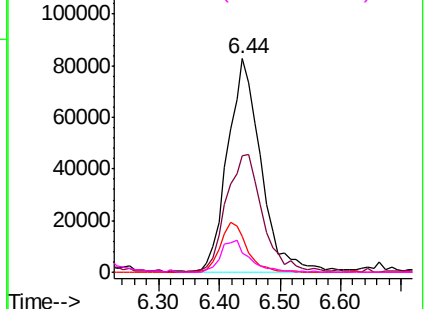


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 50.317 ug/l

RT: 7.57 min Scan# 624

Delta R.T. -0.01 min

Lab File: VD062666.D

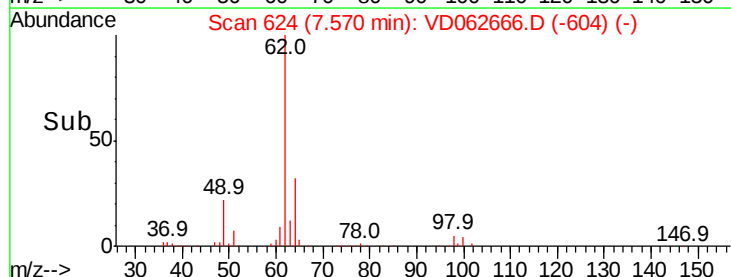
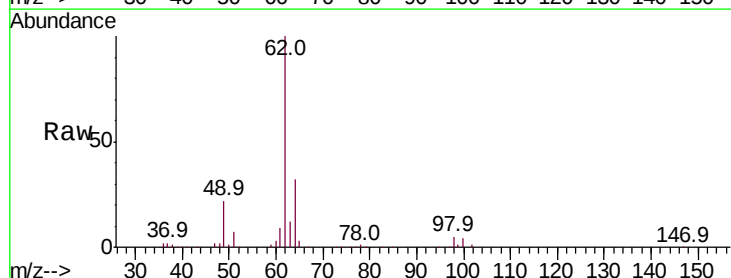
Acq: 12 Jun 2019 11:12

Tgt Ion: 62 Resp: 708873

Ion Ratio Lower Upper

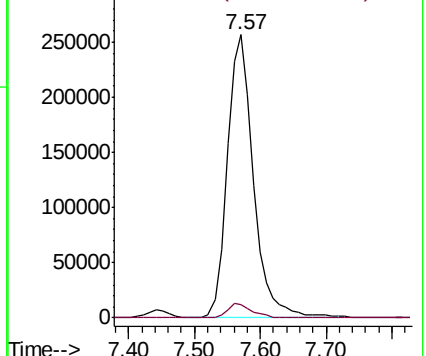
62 100

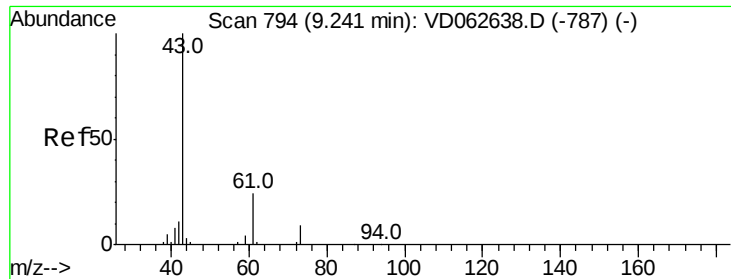
98 4.9 0.0 7.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 52.267 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

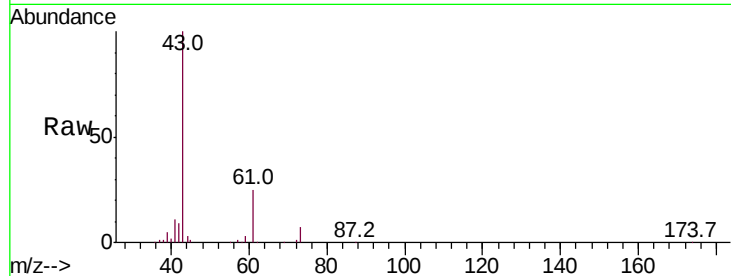
ClientSampleId :

VSTDCCC050

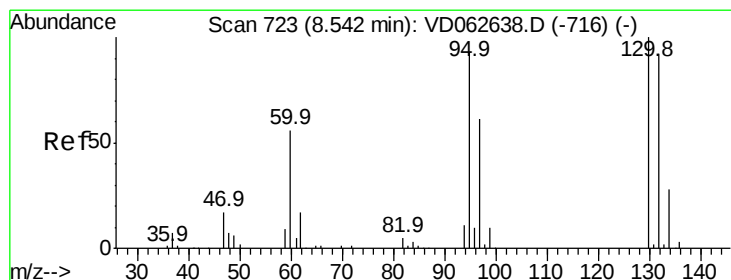
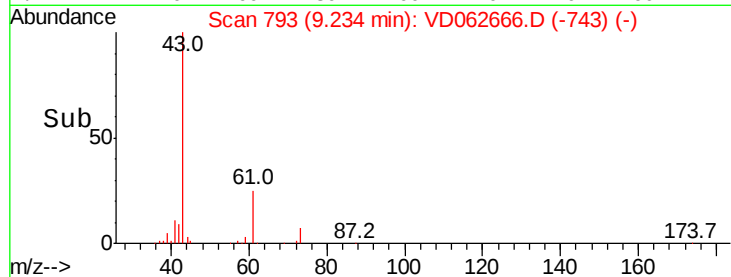
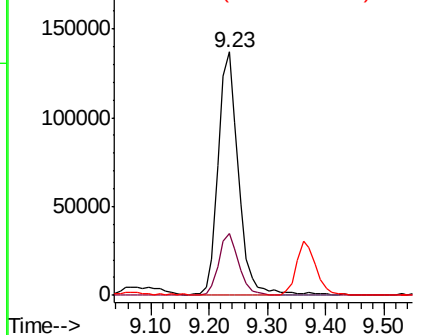
Tot Ion:	43	Resp:	333784
Ion	Ratio	Lower	Upper
43	100		
61	25.3	19.0	28.6
87	0.4	0.3	0.5

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Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 50.940 ug/l

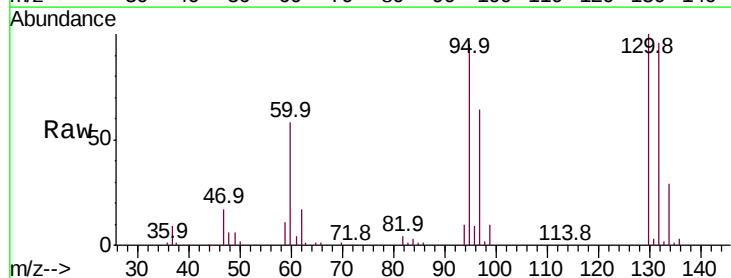
RT: 8.53 min Scan# 722

Delta R.T. -0.01 min

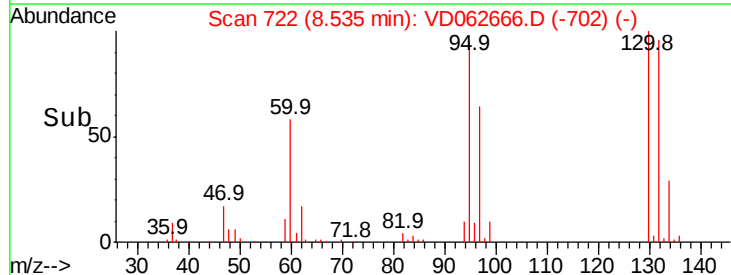
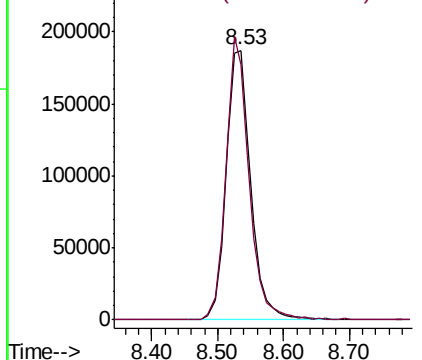
Lab File: VD062666.D

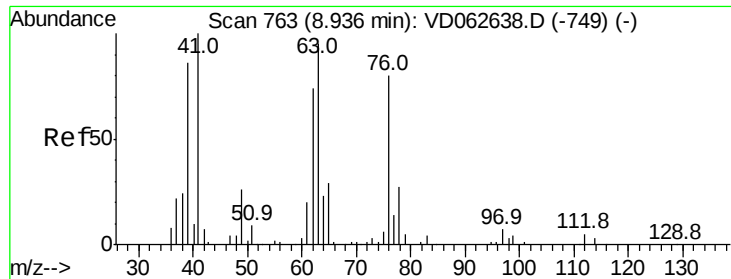
Acq: 12 Jun 2019 11:12

Tgt Ion:	130	Resp:	488800
Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	185.6



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 52.185 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 296271

Ion Ratio Lower Upper

63 100

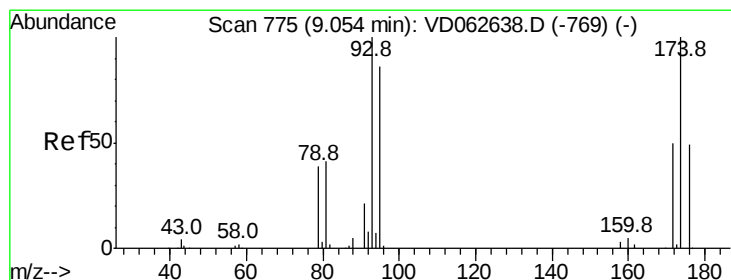
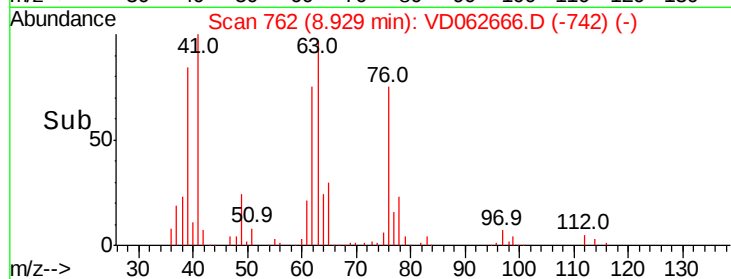
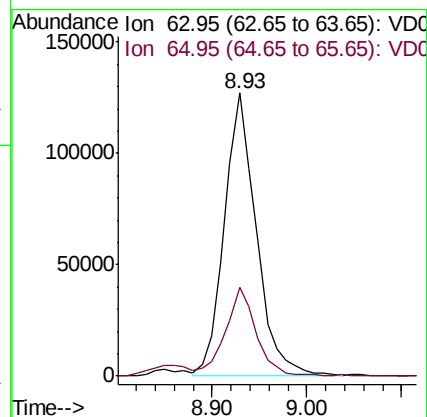
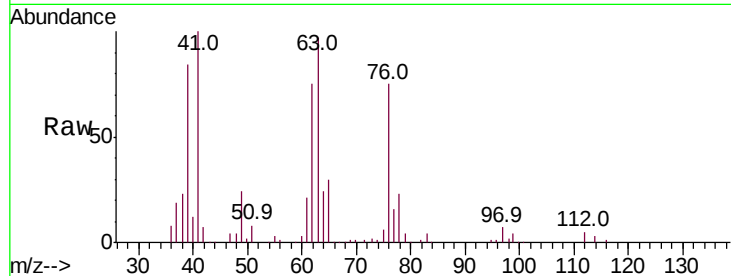
65 31.4 24.6 37.0

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#46

Dibromomethane

Concen: 53.089 ug/l

RT: 9.06 min Scan# 775

Delta R.T. 0.00 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

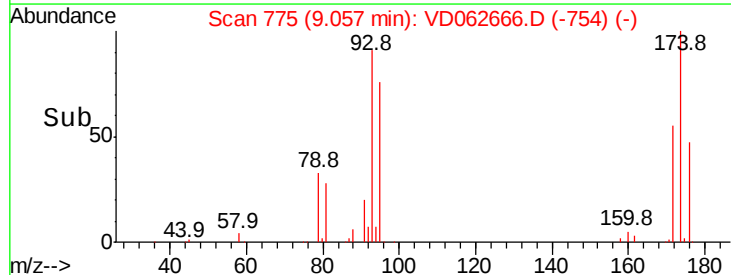
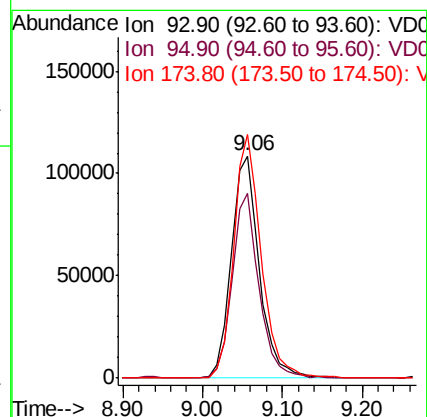
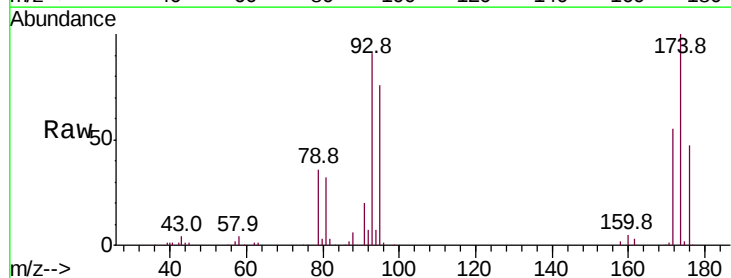
Tgt Ion: 93 Resp: 267543

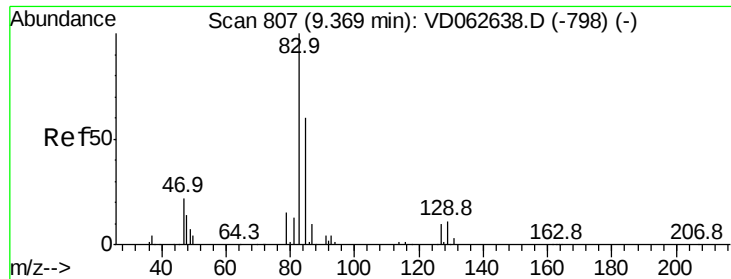
Ion Ratio Lower Upper

93 100

95 83.3 68.7 103.1

174 109.5 79.8 119.8





#47

Bromodichloromethane

Concen: 50.775 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

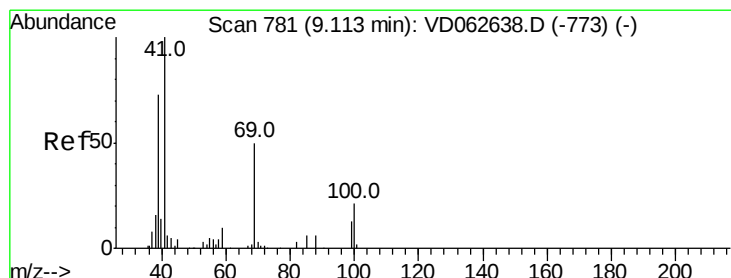
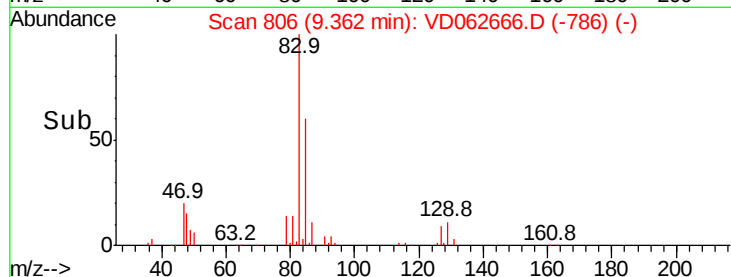
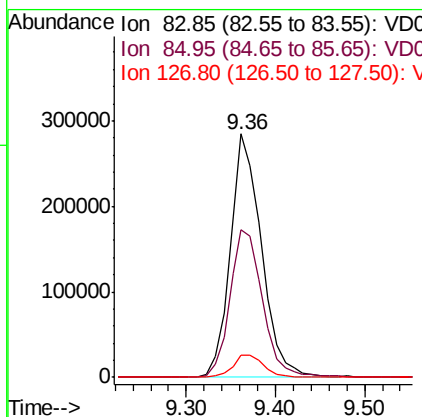
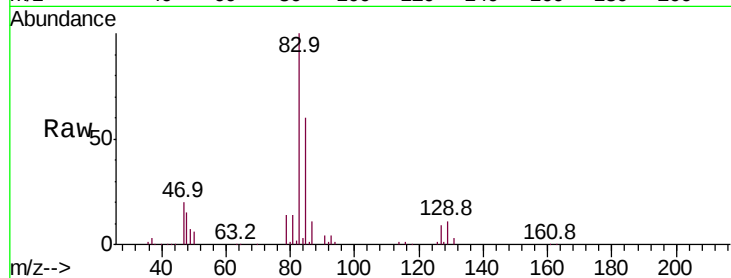
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	696064
Ion Ratio	Lower	Upper	
83	100		
85	60.4	47.9	71.9
127	8.9	8.2	12.4

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#48

Methyl methacrylate

Concen: 49.648 ug/l

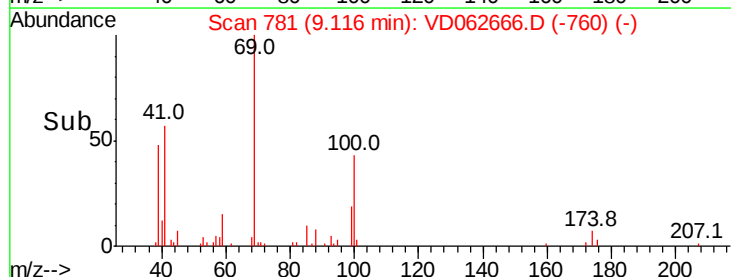
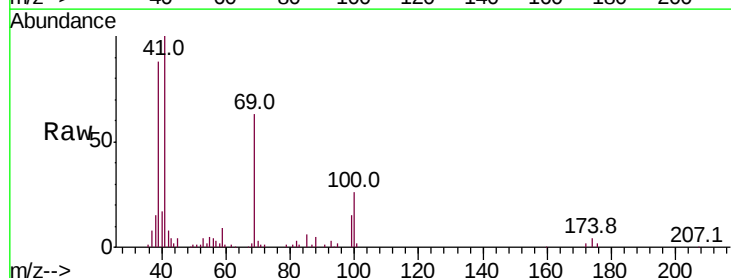
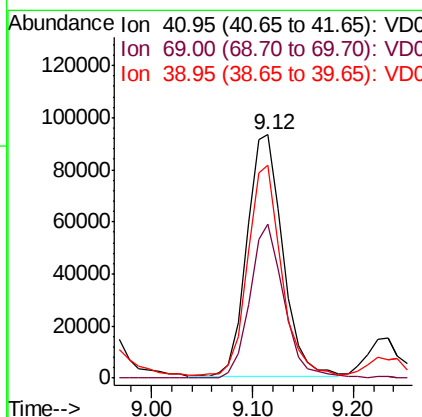
RT: 9.12 min Scan# 781

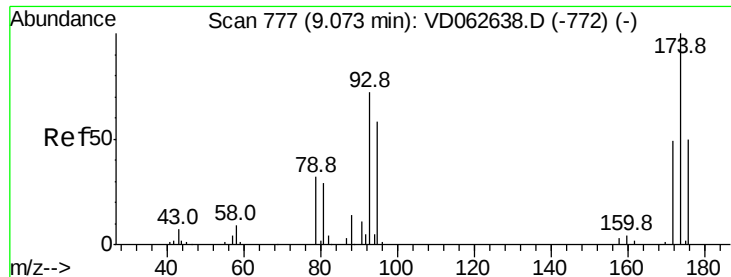
Delta R.T. 0.00 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion:	41	Resp:	229056
Ion Ratio	Lower	Upper	
41	100		
69	63.5	39.8	59.6#
39	87.6	59.1	88.7





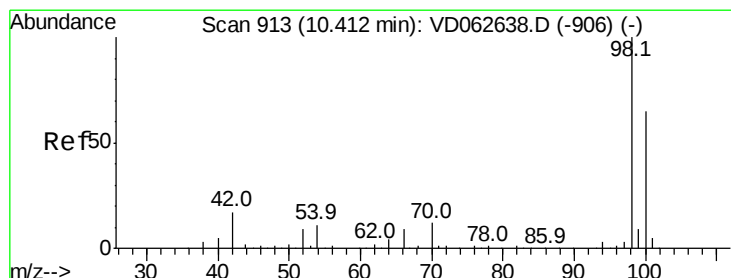
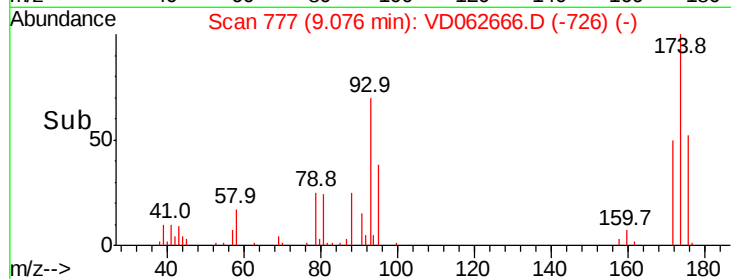
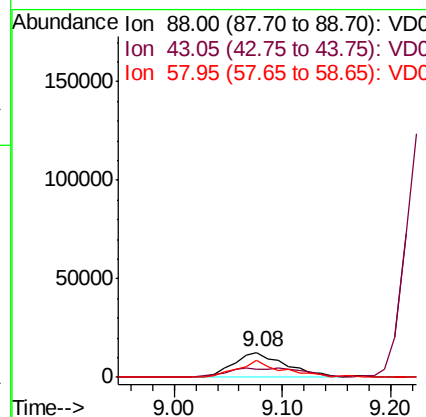
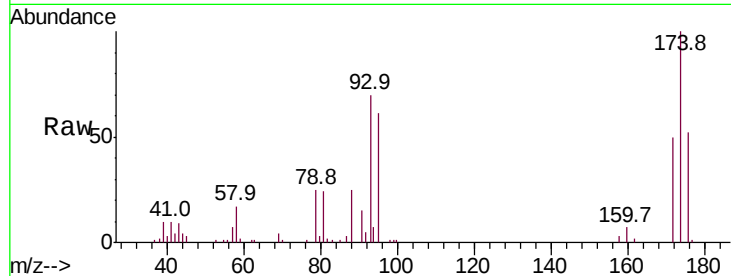
#49
1,4-Dioxane
Concen: 1002.738 ug/l
RT: 9.08 min Scan# 777
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.0	40.7	61.1#
58	69.0	54.2	81.4

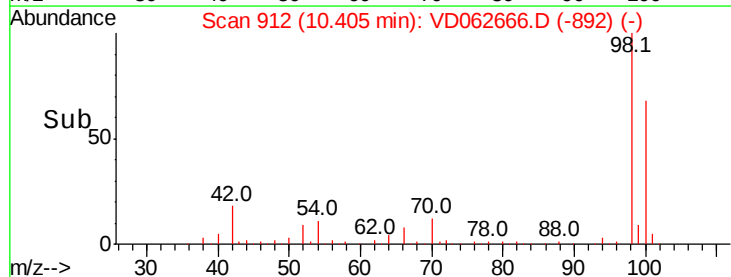
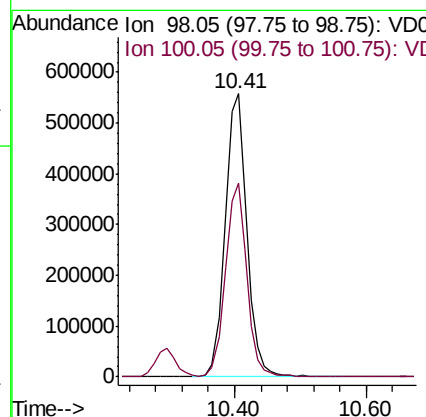
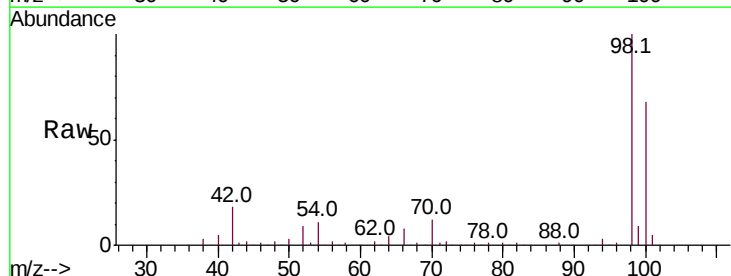
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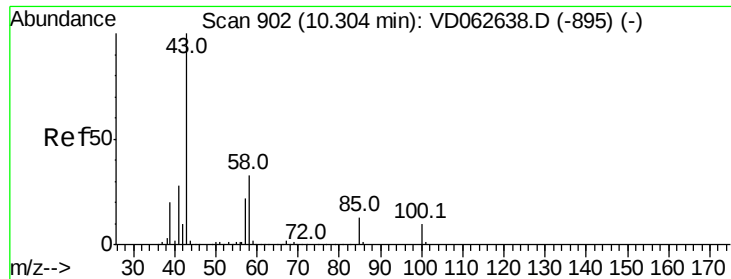
MMDadoda
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#50
Toluene-d8
Concen: 54.611 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.3	52.1	78.1





#51

4-Methyl-2-Pentanone

Concen: 259.811 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1160966

Ion Ratio Lower Upper

43 100

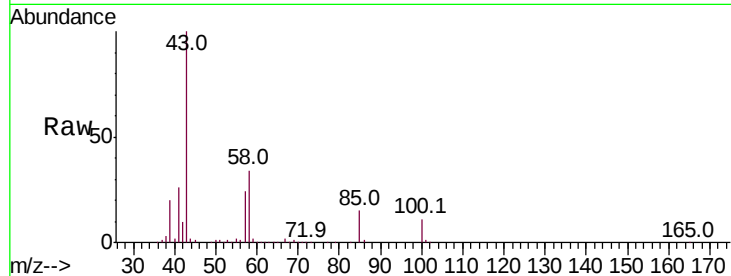
58 33.6 26.1 39.1

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

500000

400000

300000

200000

100000

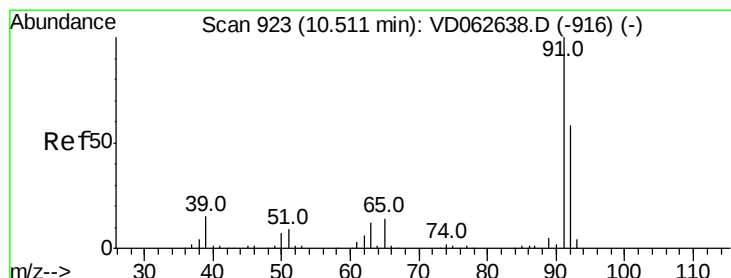
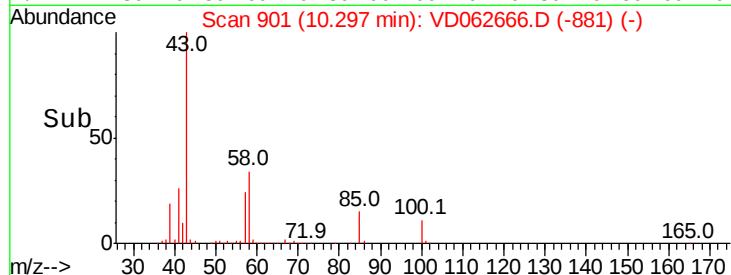
0

10.20

10.30

10.40

Time-->



#52

Toluene

Concen: 52.148 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD062666.D

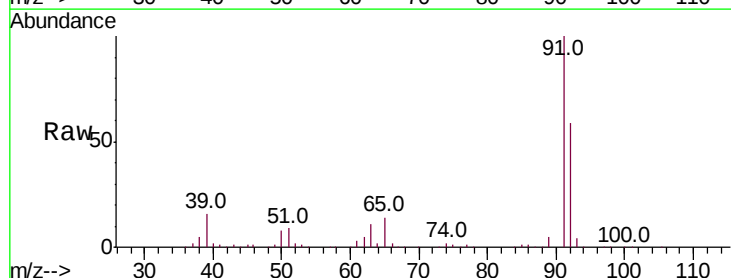
Acq: 12 Jun 2019 11:12

Tgt Ion: 92 Resp: 828529

Ion Ratio Lower Upper

92 100

91 170.1 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.50

600000

400000

200000

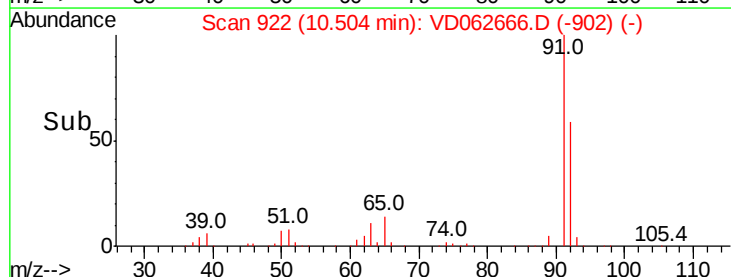
0

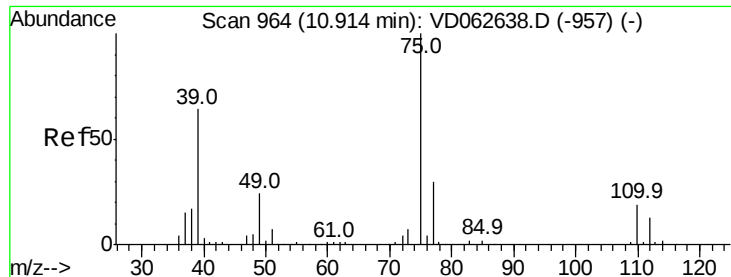
10.40

10.50

10.60

Time-->





#53

t-1,3-Dichloropropene

Concen: 52.197 ug/l

RT: 10.91 min Scan# 963

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 586680

Ion Ratio Lower Upper

75 100

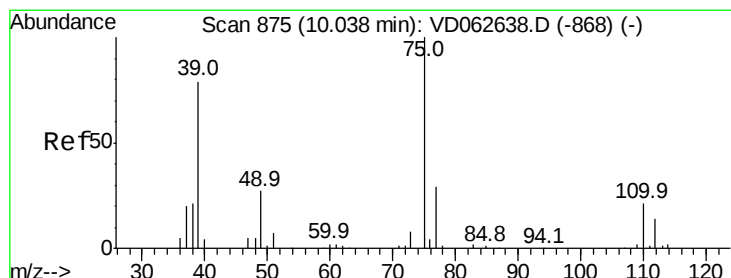
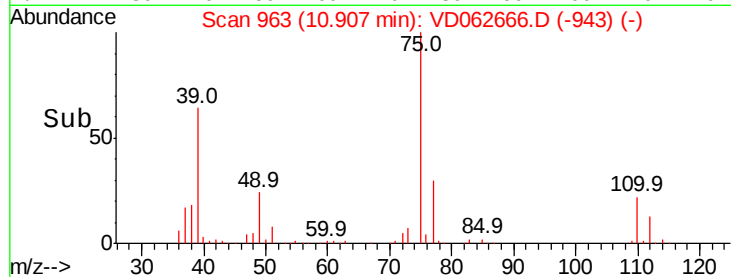
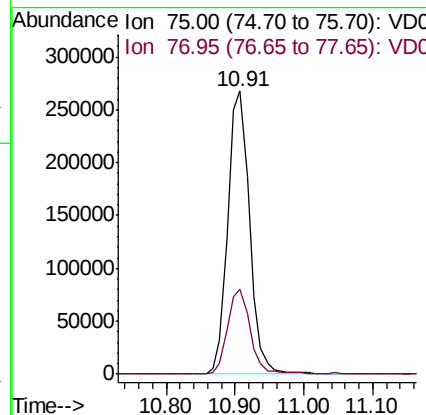
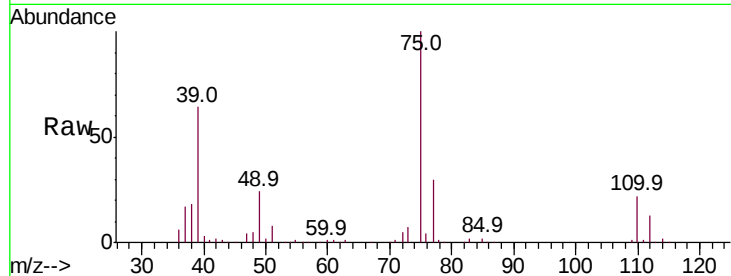
77 30.1 24.1 36.1

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#54

cis-1,3-Dichloropropene

Concen: 53.138 ug/l

RT: 10.03 min Scan# 874

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

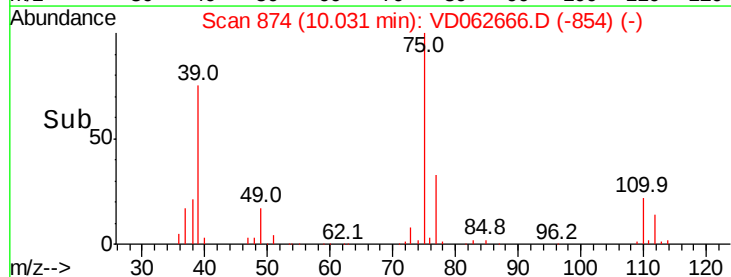
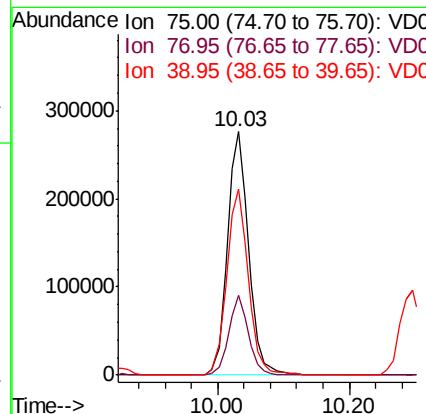
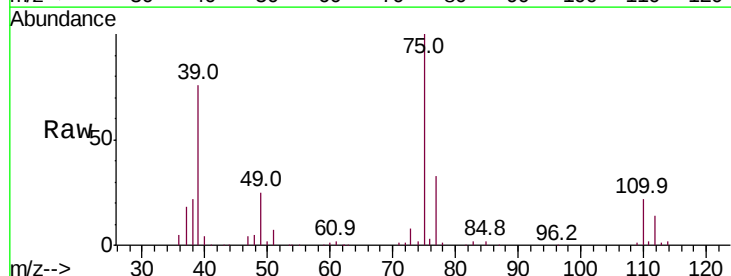
Tgt Ion: 75 Resp: 617287

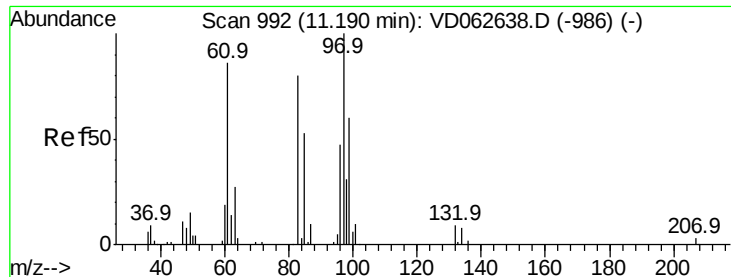
Ion Ratio Lower Upper

75 100

77 32.5 23.1 34.7

39 76.5 63.4 95.2





#55

1,1,2-Trichloroethane

Concen: 51.262 ug/l

RT: 11.18 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 279308

Ion Ratio Lower Upper

97 100

83 74.8 63.8 95.8

85 54.4 42.3 63.5

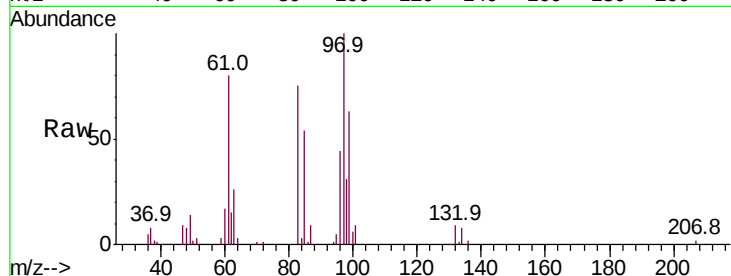
99 63.4 48.0 72.0

Manual Integrations

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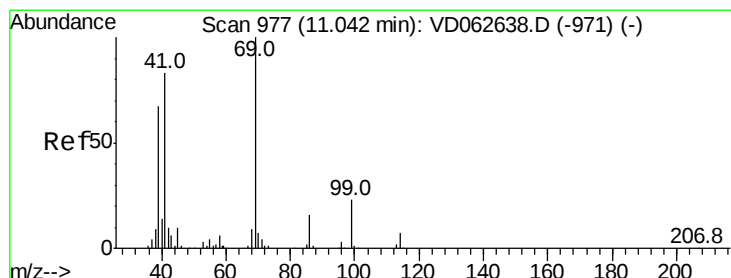
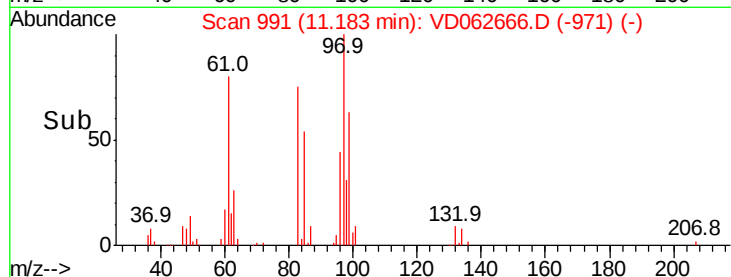
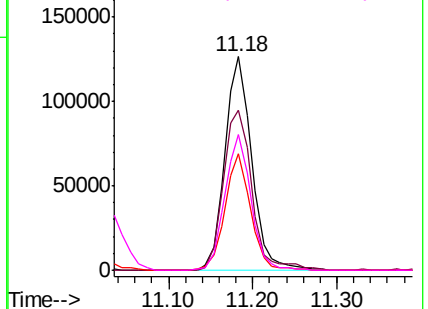


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 44.309 ug/l

RT: 11.04 min Scan# 976

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

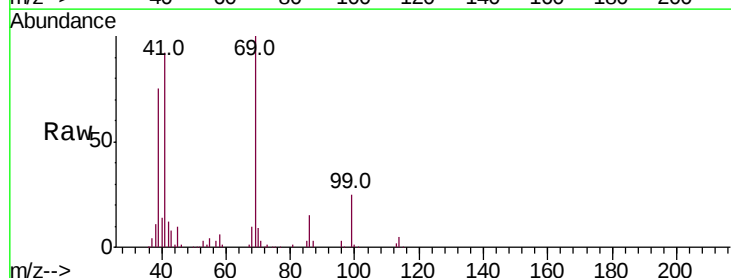
Tgt Ion: 69 Resp: 287694

Ion Ratio Lower Upper

69 100

41 92.4 66.2 99.4

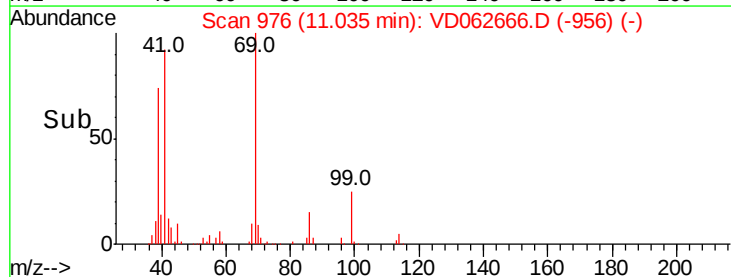
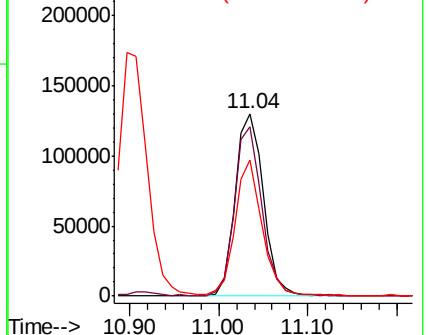
39 74.6 53.8 80.8

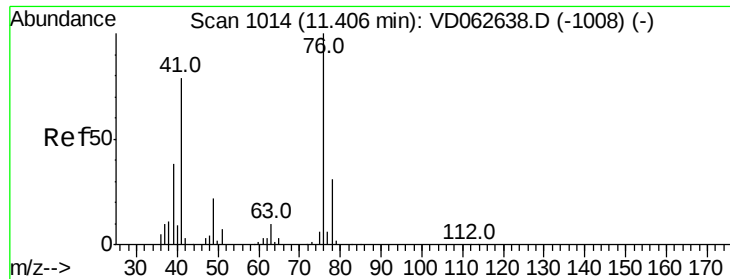


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 49.445 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 417559

Ion Ratio Lower Upper

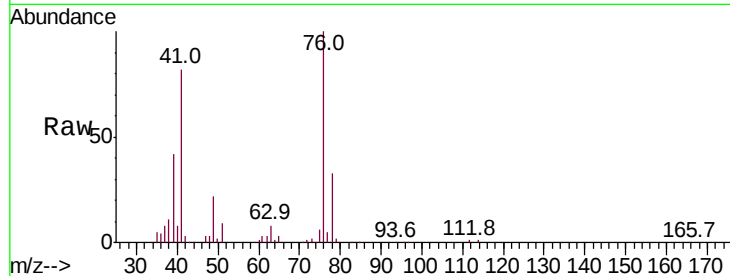
76 100

78 32.8 24.9 37.3

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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.40

200000

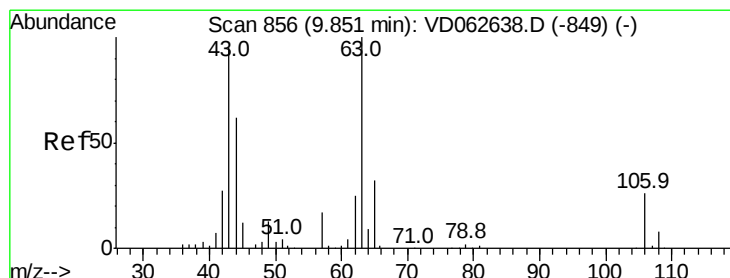
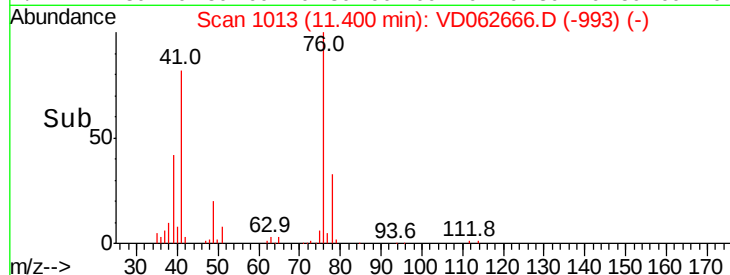
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 202.660 ug/l

RT: 9.84 min Scan# 855

Delta R.T. -0.01 min

Lab File: VD062666.D

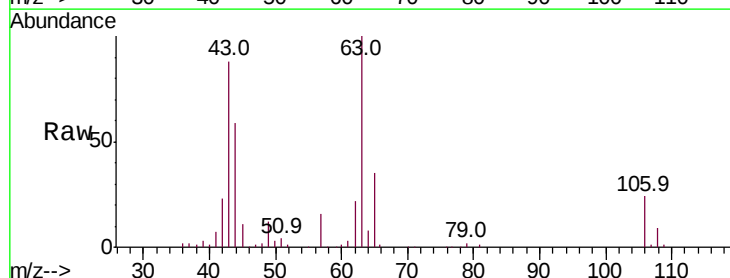
Acq: 12 Jun 2019 11:12

Tgt Ion: 63 Resp: 590176

Ion Ratio Lower Upper

63 100

106 23.9 20.5 30.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.84

300000

250000

200000

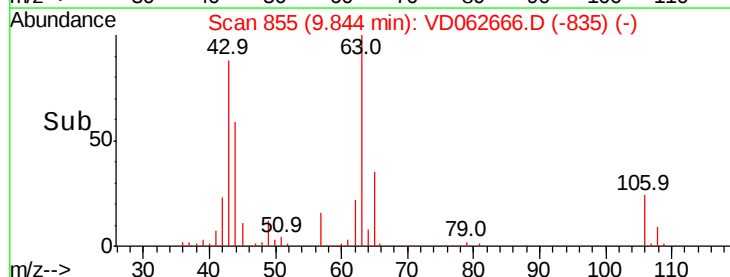
150000

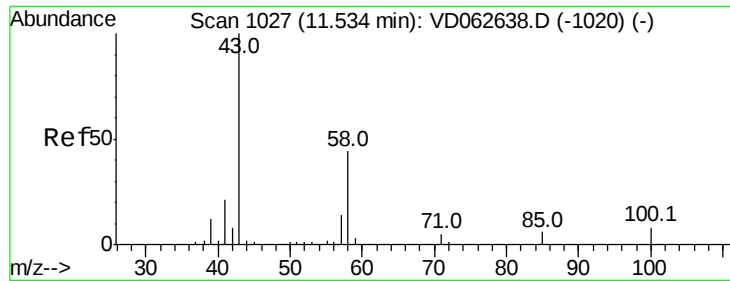
100000

50000

0

Time-->





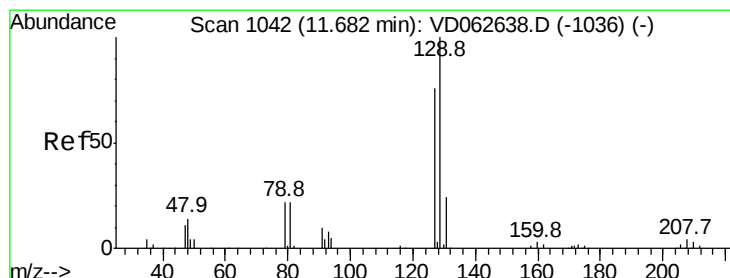
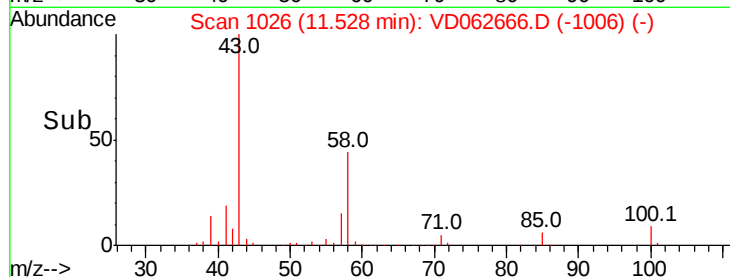
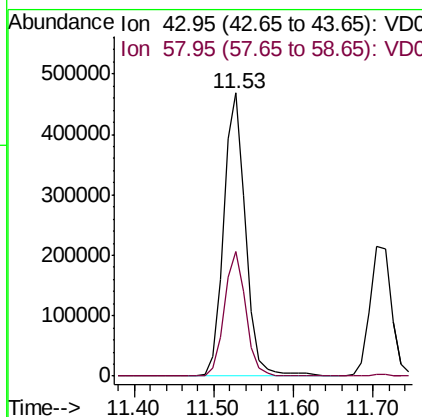
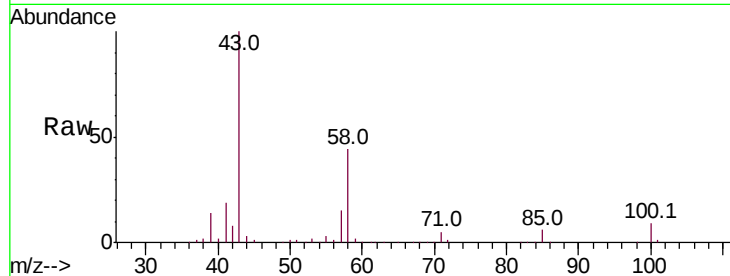
#59
2-Hexanone
Concen: 273.071 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 907673
Ion Ratio Lower Upper
43 100
58 43.9 21.8 65.4

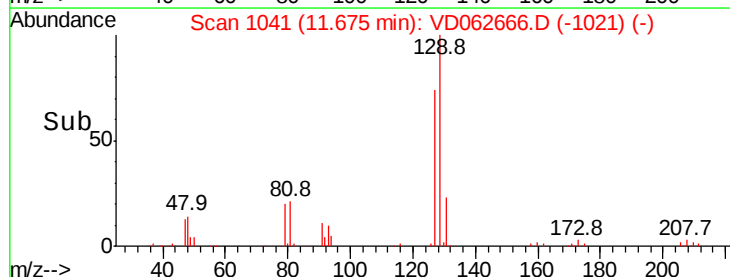
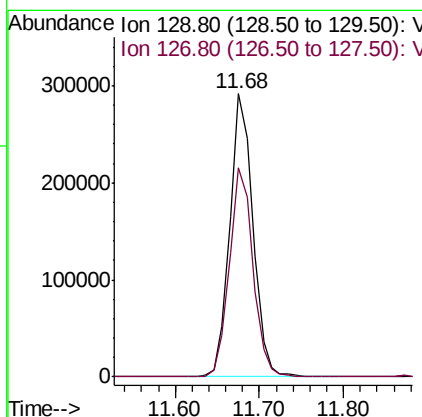
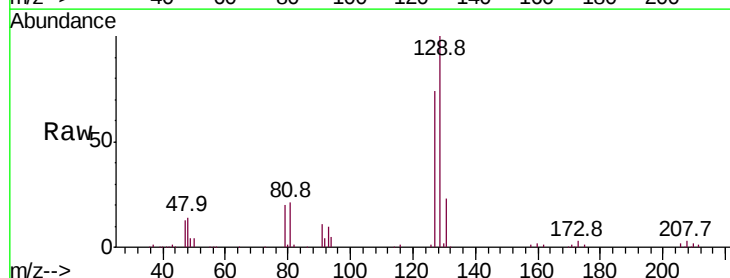
Manual Integrations
APPROVED

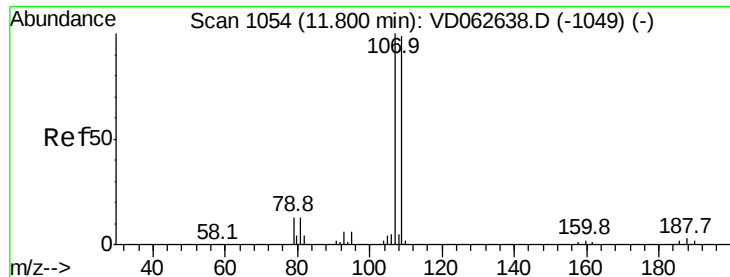
MMDadoda
6/13/2019 3:11:52 PM



#60
Dibromochloromethane
Concen: 51.899 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 129 Resp: 558213
Ion Ratio Lower Upper
129 100
127 73.9 38.0 114.1





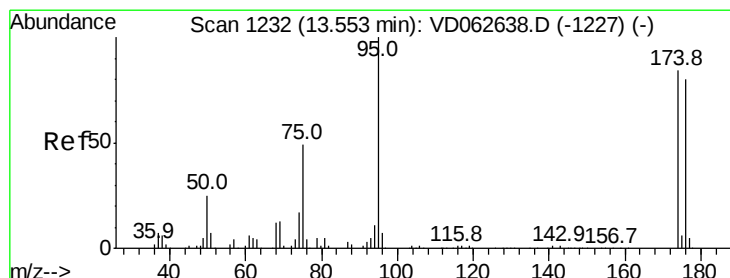
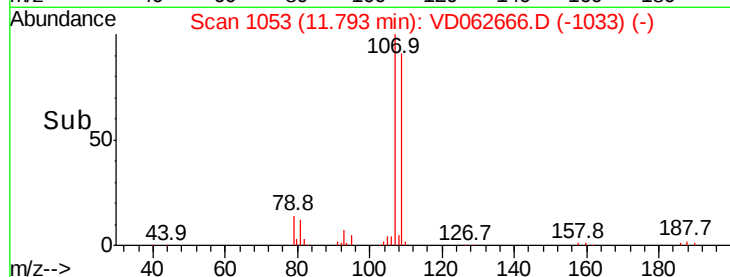
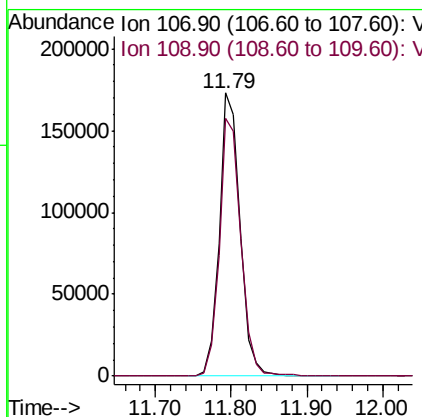
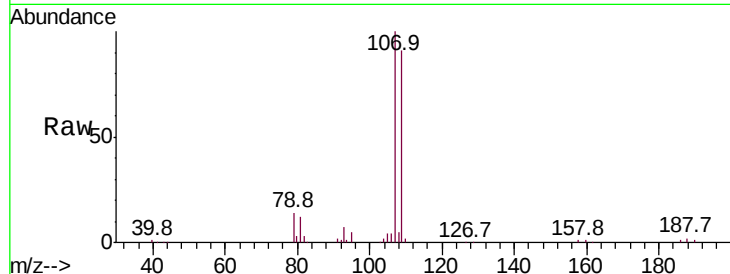
#61
 1,2-Dibromoethane
 Concen: 50.862 ug/l
 RT: 11.79 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.1	79.2	118.8

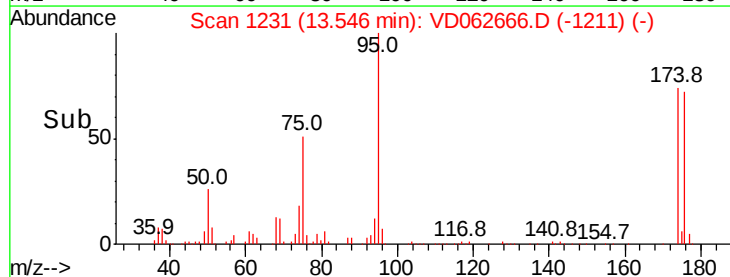
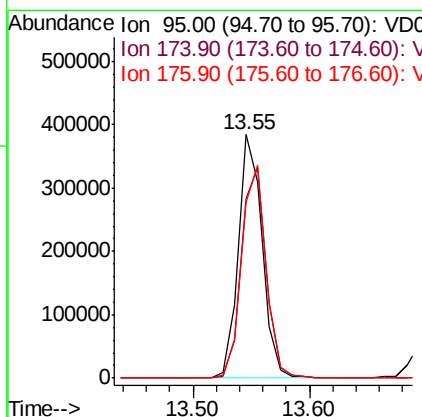
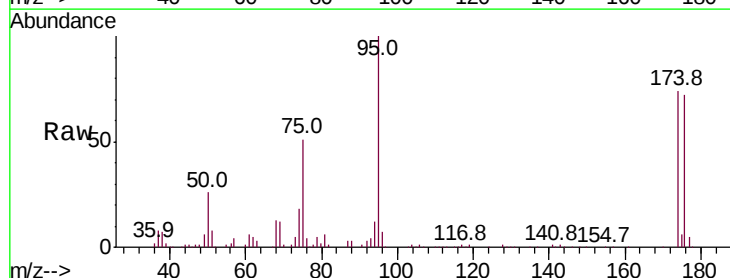
Manual Integrations
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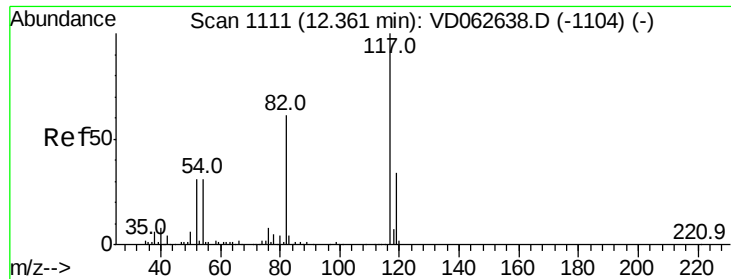
MMDadoda
 6/13/2019 3:11:52 PM



#62
 4-Bromofluorobenzene
 Concen: 49.626 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	167.0
176	72.2	0.0	159.2





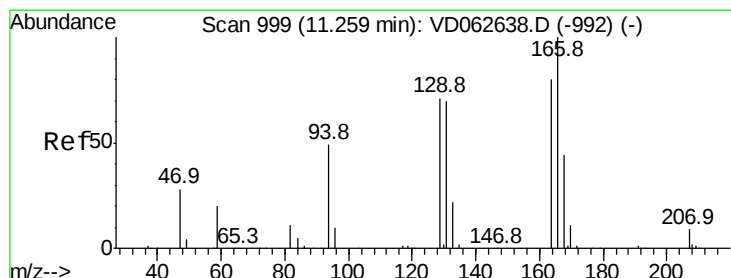
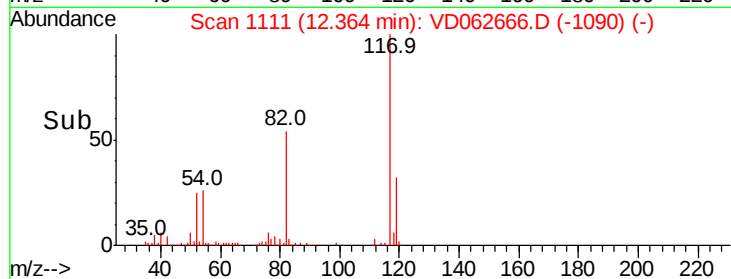
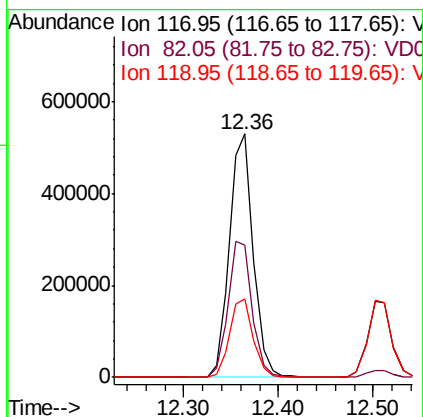
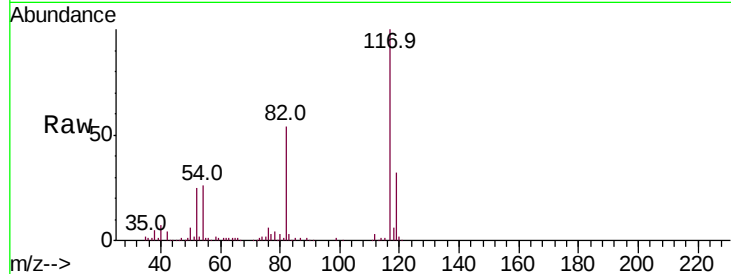
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	54.2	48.7	73.1	
119	32.3	27.0	40.6	

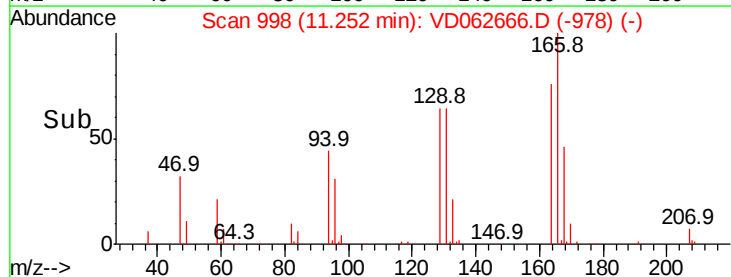
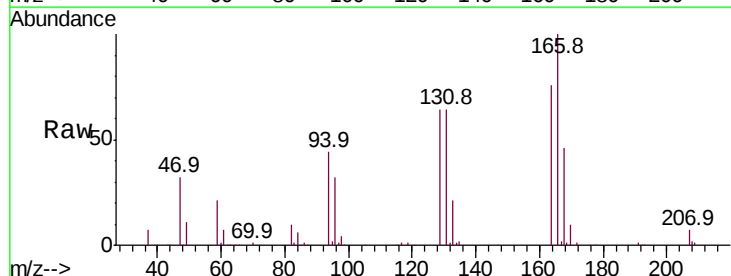
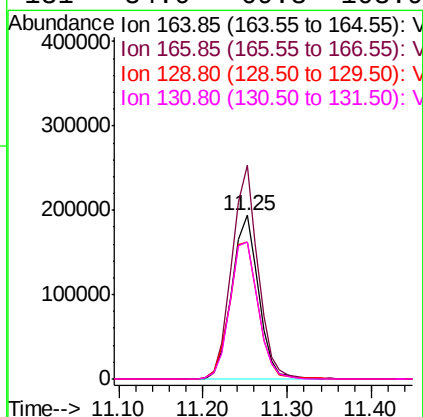
Manual Integrations
APPROVED

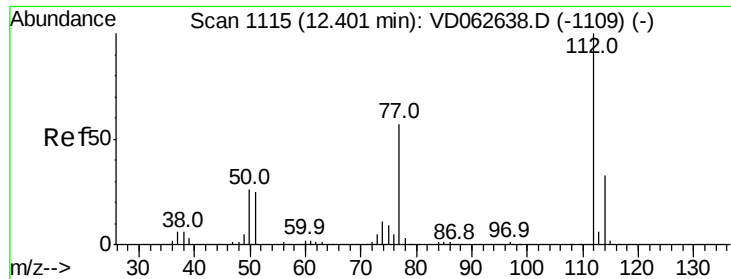
MMDadoda
6/13/2019 3:11:52 PM



#64
Tetrachloroethene
Concen: 49.963 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	130.8	99.4	149.2	
129	83.7	70.2	105.4	
131	84.0	69.3	103.9	





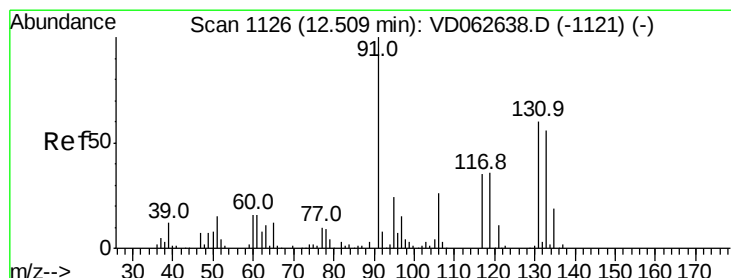
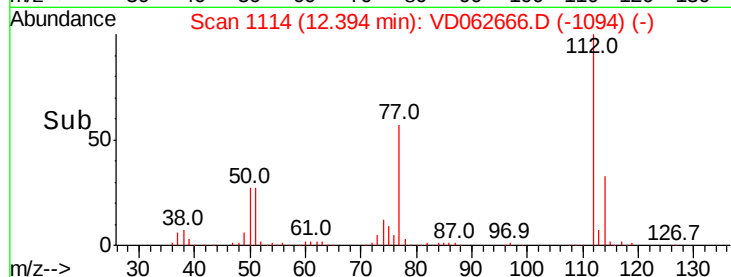
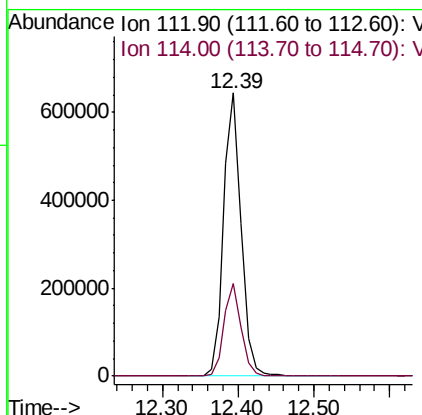
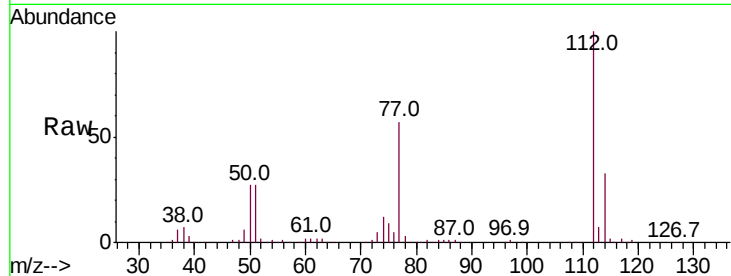
#65
Chlorobenzene
Concen: 50.934 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1034739
Ion Ratio Lower Upper
112 100
114 32.6 26.3 39.5

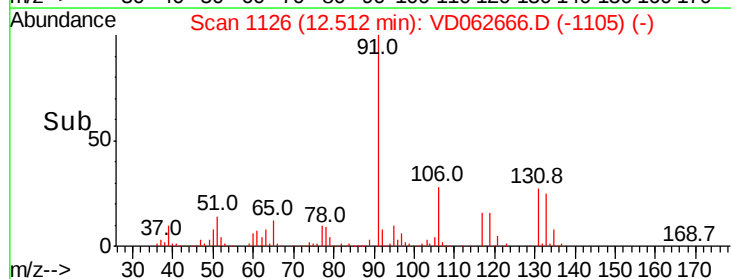
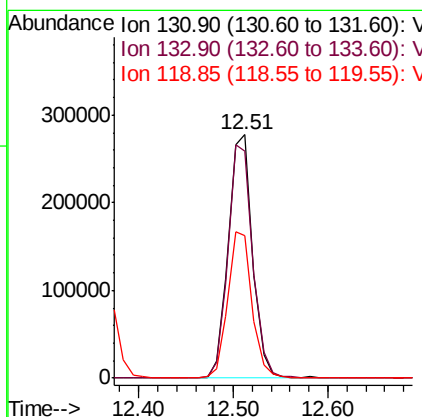
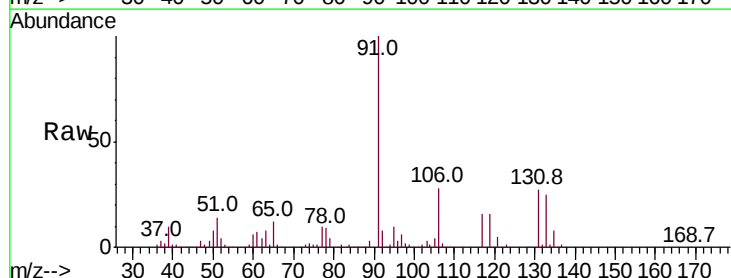
Manual Integrations
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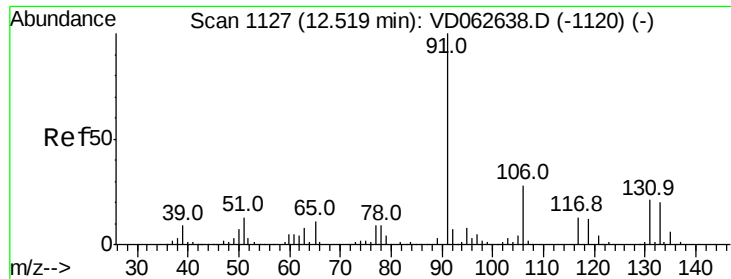
MMDadoda
6/13/2019 3:11:52 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.733 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion:131 Resp: 491561
Ion Ratio Lower Upper
131 100
133 93.4 46.8 140.3
119 58.4 29.9 89.8





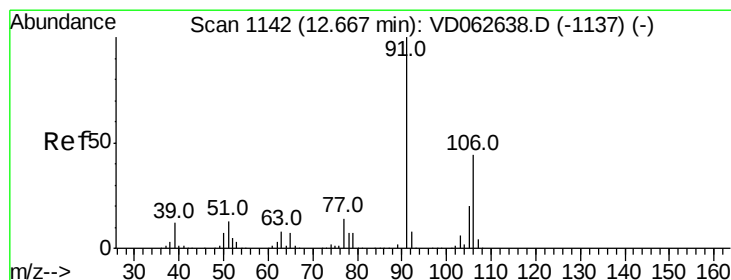
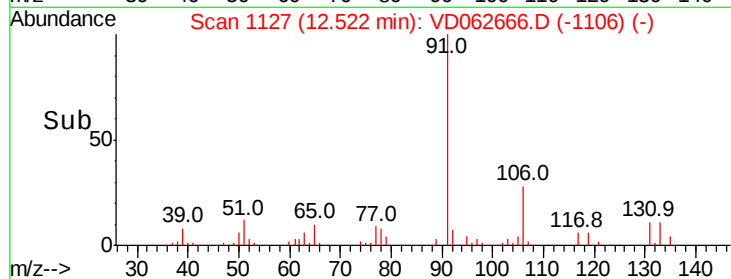
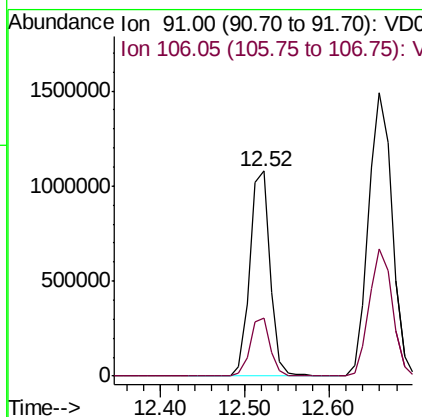
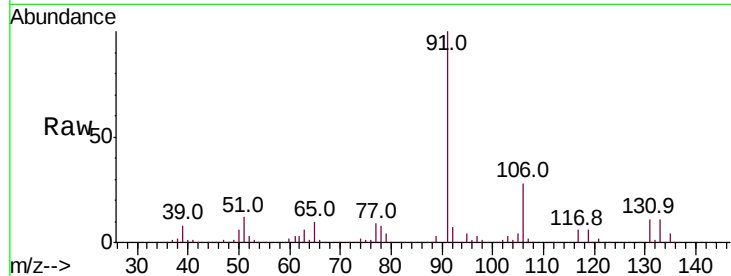
#67
Ethyl Benzene
Concen: 50.786 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1829293
Ion Ratio Lower Upper
91 100
106 28.3 22.1 33.1

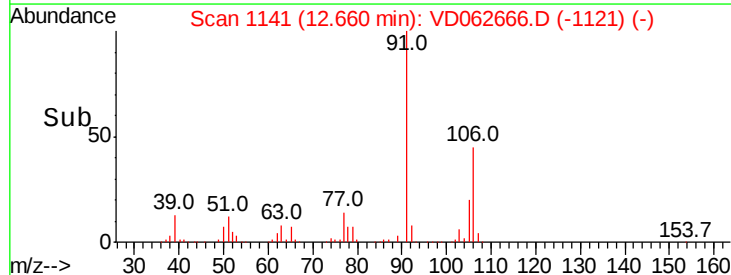
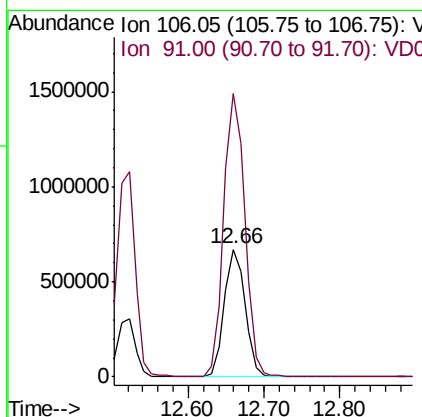
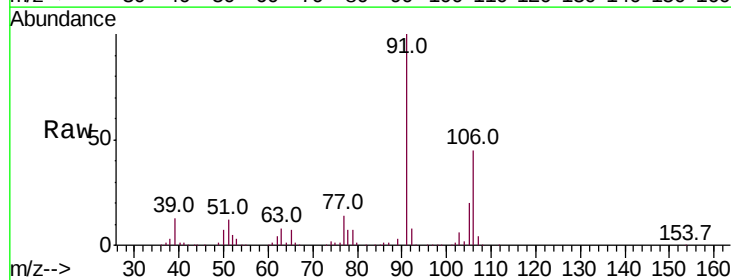
Manual Integrations
APPROVED

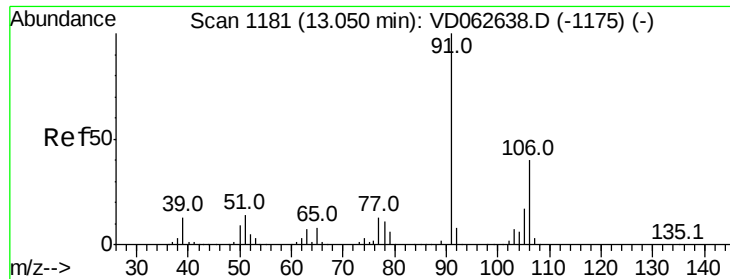
MMDadoda
6/13/2019 3:11:52 PM



#68
m/p-Xylenes
Concen: 101.136 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion: 106 Resp: 1280669
Ion Ratio Lower Upper
106 100
91 222.2 180.2 270.4





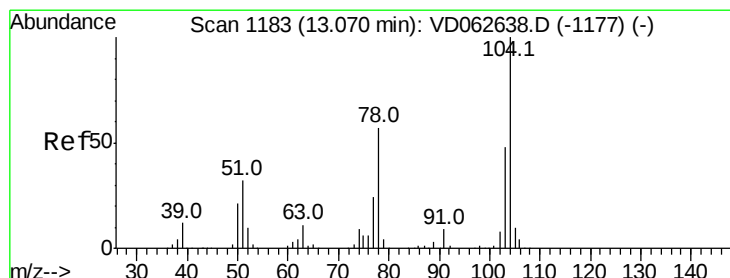
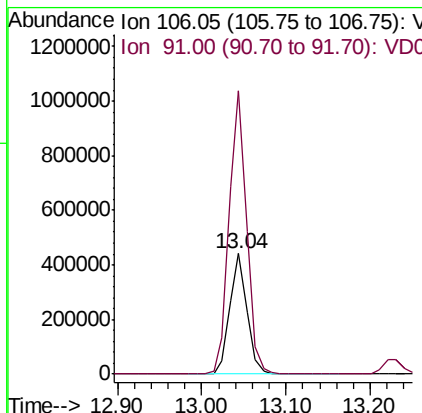
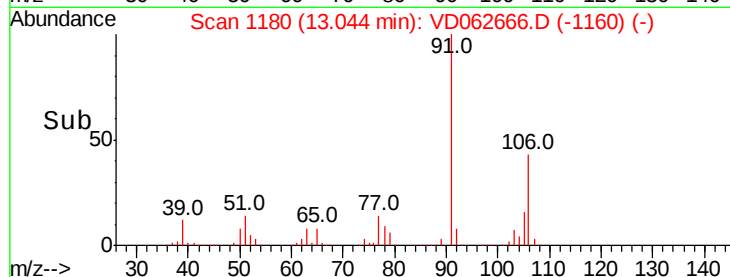
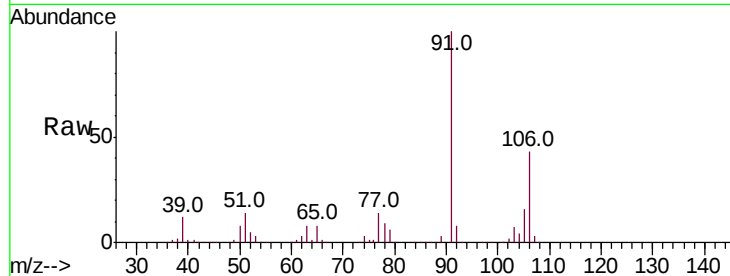
#69
o-Xylene
Concen: 53.886 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 626672
Ion Ratio Lower Upper
106 100
91 234.9 124.1 372.1

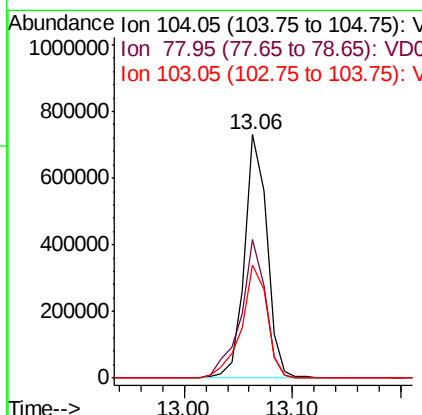
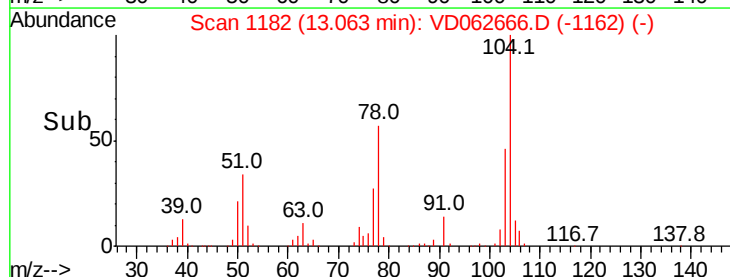
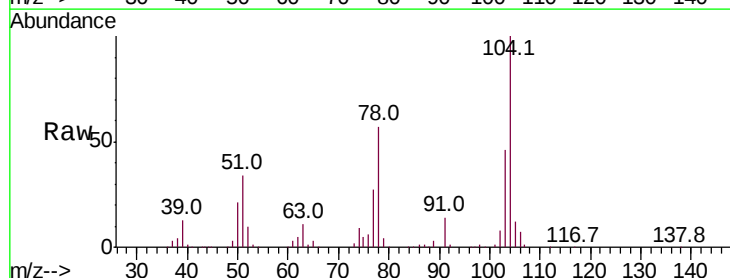
Manual Integrations
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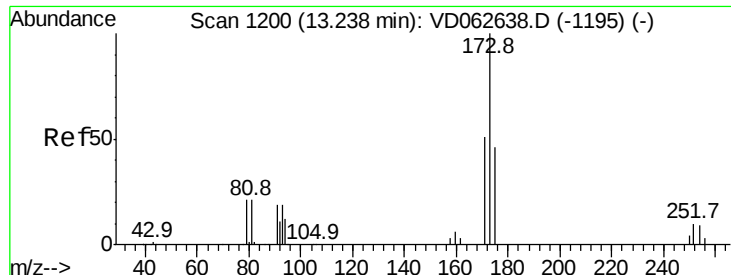
MMDadoda
6/13/2019 3:11:52 PM



#70
Styrene
Concen: 50.772 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion:104 Resp: 1053537
Ion Ratio Lower Upper
104 100
78 57.0 45.9 68.9
103 46.4 38.4 57.6





#71

Bromoform

Concen: 48.289 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

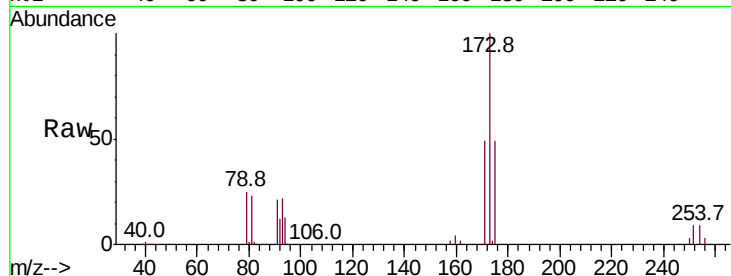
ClientSampleId :

VSTDCCC050

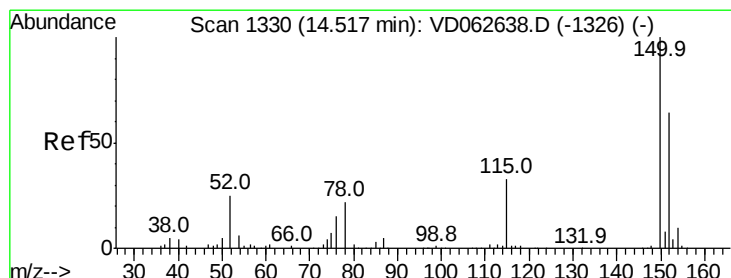
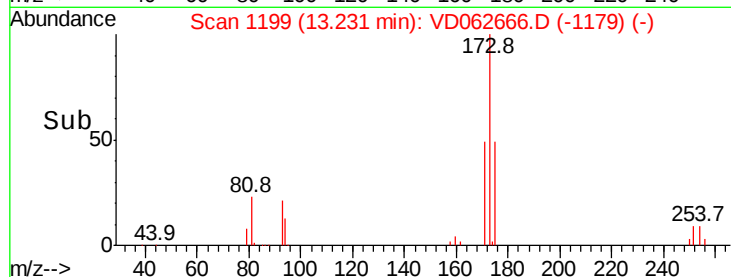
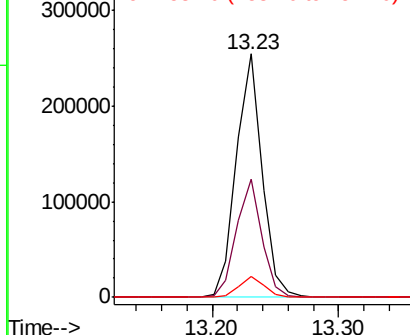
Tot Ion:	173	Resp:	358161
Ion Ratio	Lower	Upper	
173	100		
175	48.7	22.9	68.7
254	8.7	7.0	10.4

Manual Integrations
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6/13/2019 3:11:52 PM



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

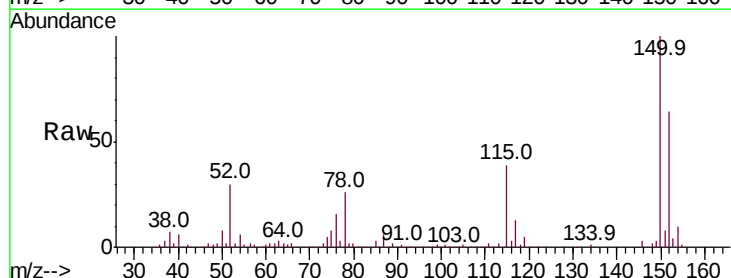
RT: 14.51 min Scan# 1329

Delta R.T. -0.01 min

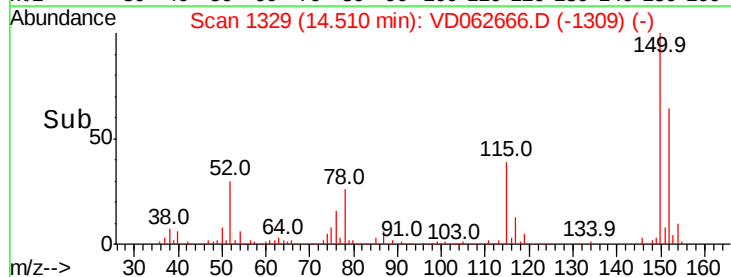
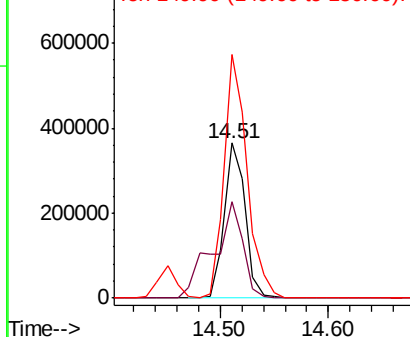
Lab File: VD062666.D

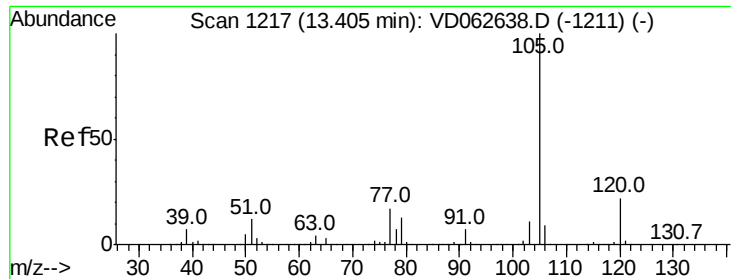
Acq: 12 Jun 2019 11:12

Tgt Ion:	152	Resp:	488116
Ion Ratio	Lower	Upper	
152	100		
115	62.0	30.1	90.5
150	157.0	0.0	314.0



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: 48.828 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1679914

Ion Ratio Lower Upper

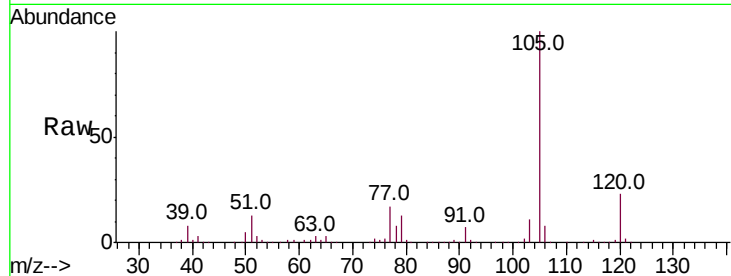
105 100

120 22.6 10.9 32.7

Manual Integrations
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MMDadoda

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

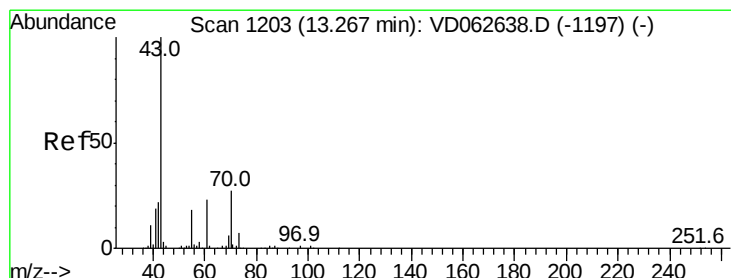
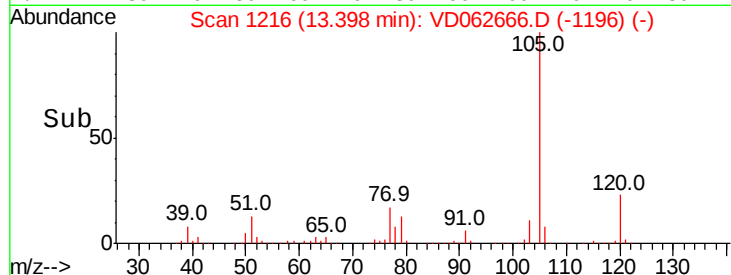
13.40

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 54.451 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion: 43 Resp: 506291

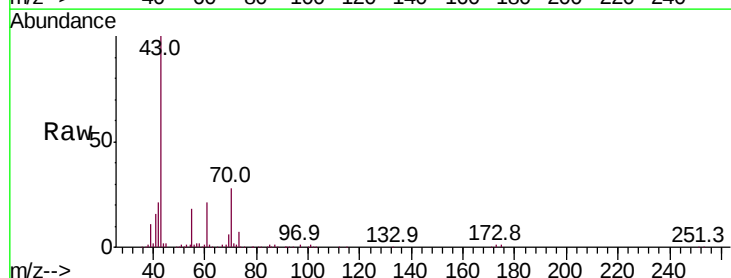
Ion Ratio Lower Upper

43 100

70 27.8 21.8 32.8

55 18.2 14.6 21.8

61 20.7 18.4 27.6



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

13.26

600000

500000

400000

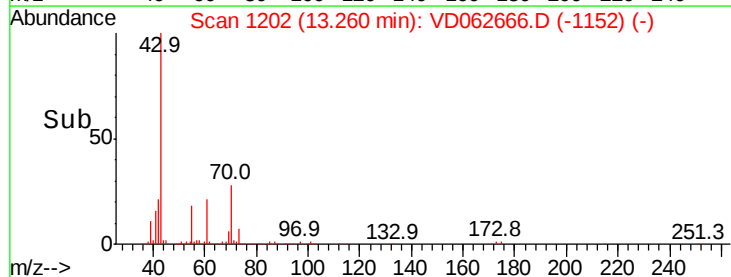
300000

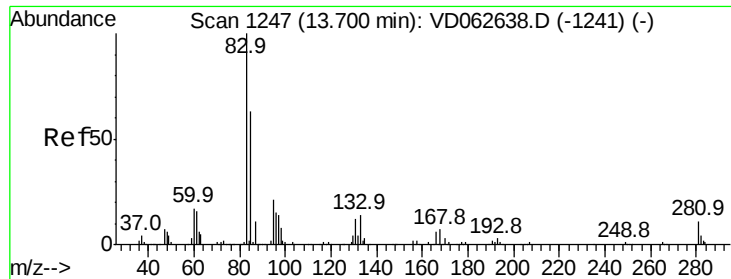
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 53.111 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 312661

Ion Ratio Lower Upper

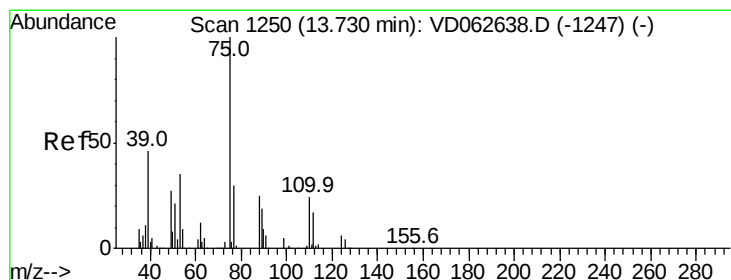
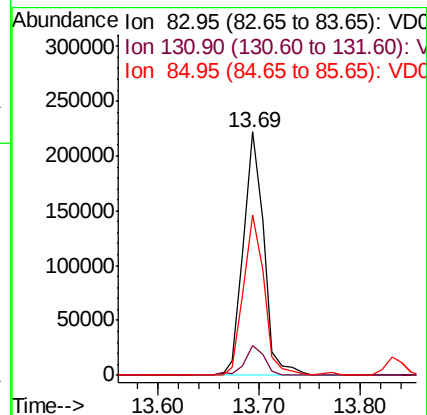
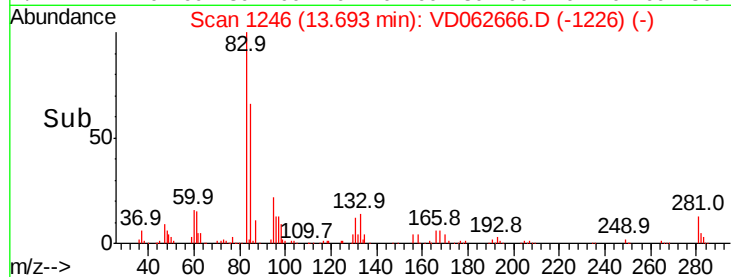
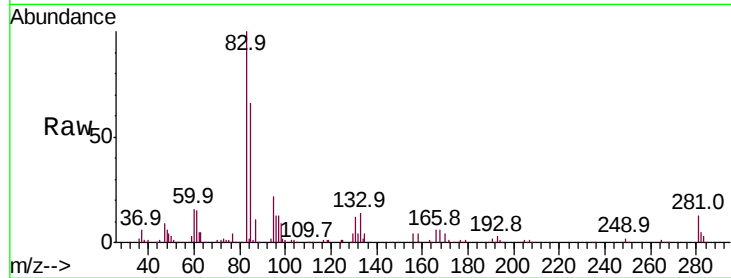
83 100

131 12.1 5.9 17.7

85 66.1 31.3 93.9

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#76

1,2,3-Trichloropropane

Concen: 51.580 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD062666.D

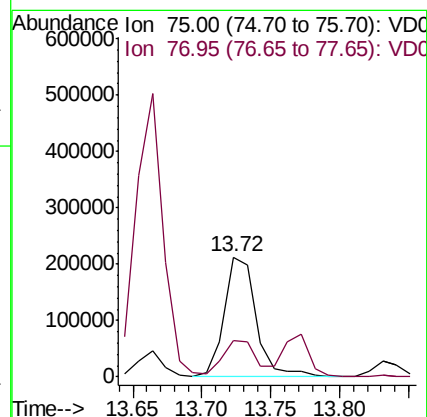
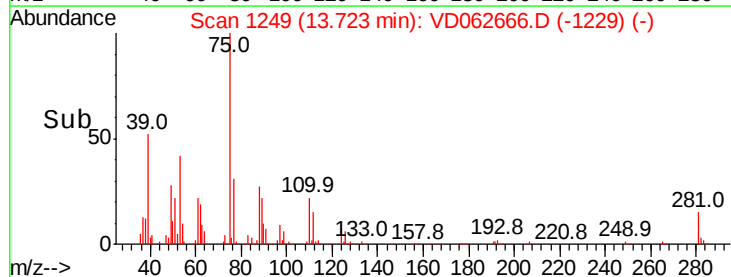
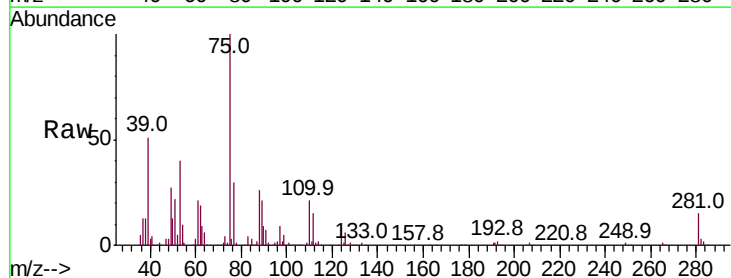
Acq: 12 Jun 2019 11:12

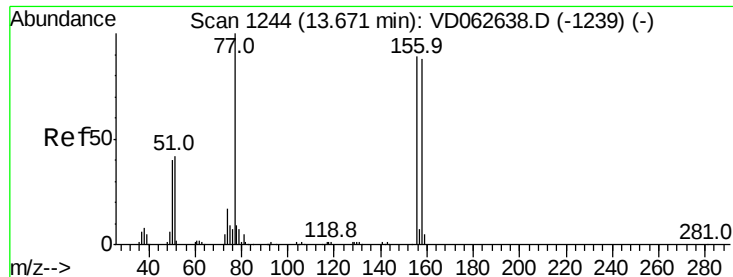
Tgt Ion: 75 Resp: 341373

Ion Ratio Lower Upper

75 100

77 30.2 16.2 48.6





#77

Bromobenzene

Concen: 53.816 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 529201

Ion Ratio Lower Upper

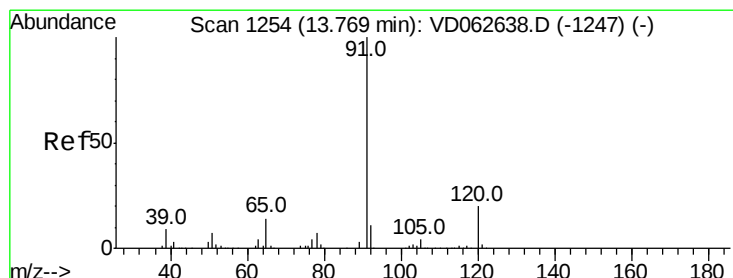
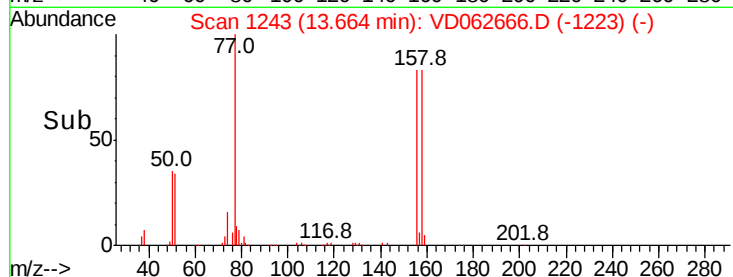
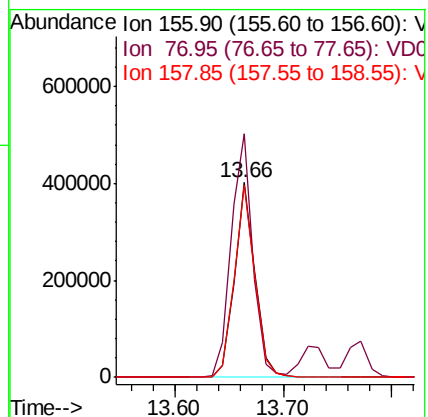
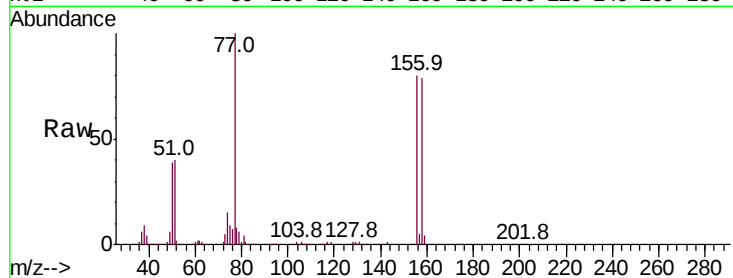
156 100

77 125.0 56.3 168.8

158 99.0 49.6 148.8

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#78

n-propylbenzene

Concen: 50.689 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD062666.D

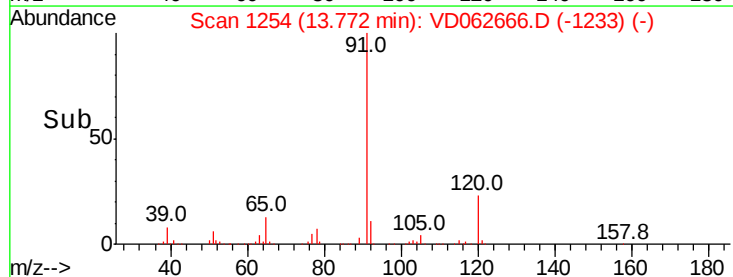
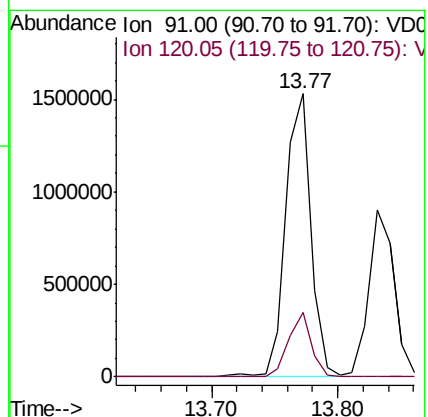
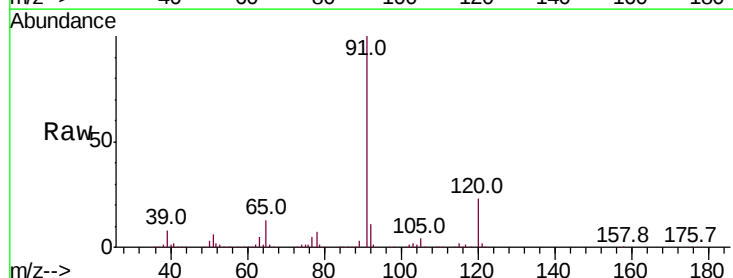
Acq: 12 Jun 2019 11:12

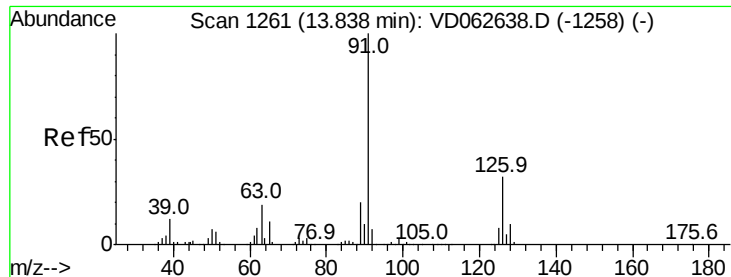
Tgt Ion: 91 Resp: 2134702

Ion Ratio Lower Upper

91 100

120 22.6 9.8 29.5





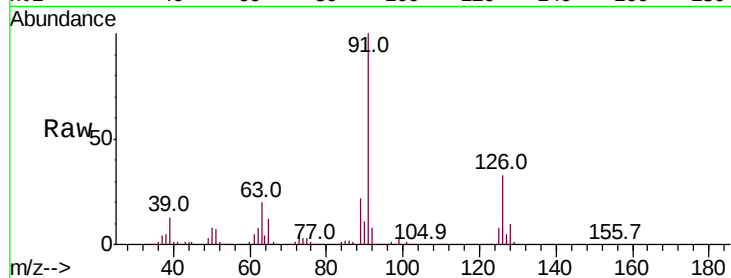
#79
 2-Chlorotoluene
 Concen: 50.572 ug/l
 RT: 13.83 min Scan# 1260
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

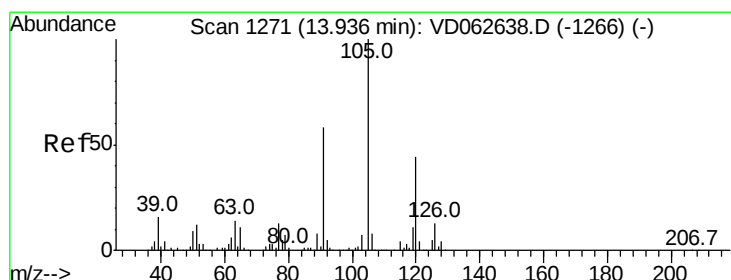
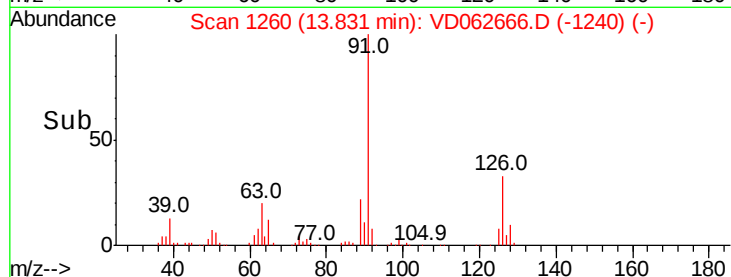
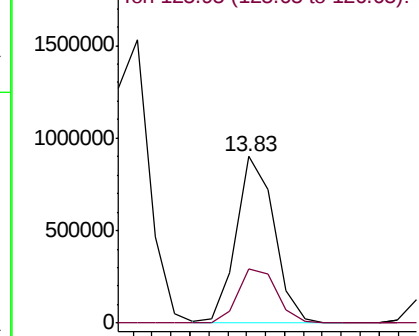
Tot Ion: 91 Resp: 1247011
 Ion Ratio Lower Upper
 91 100
 126 32.5 15.8 47.4

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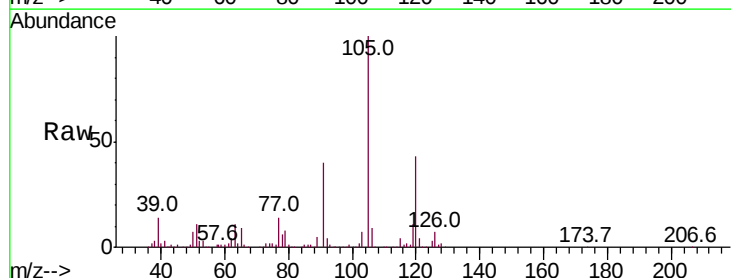


Abundance Ion 91.00 (90.70 to 91.70): VD
 Ion 125.95 (125.65 to 126.65): V

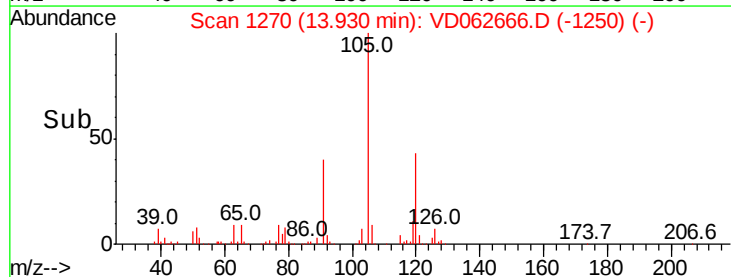
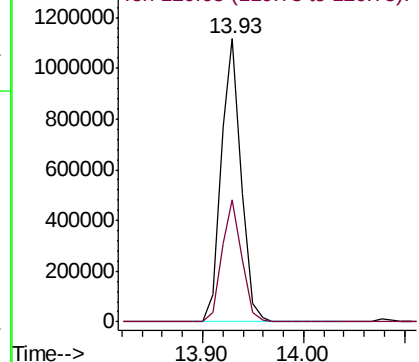


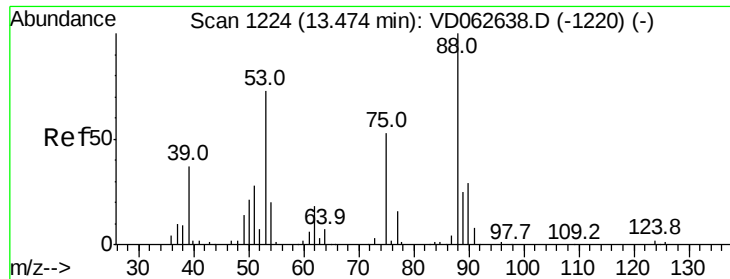
#80
 1,3,5-Trimethylbenzene
 Concen: 50.425 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion:105 Resp: 1533260
 Ion Ratio Lower Upper
 105 100
 120 43.2 22.1 66.5



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 46.927 ug/l

RT: 13.47 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

ClientSampled :

VSTDCCC050

Tot Ion: 75 Resp: 91595

Ion Ratio Lower Upper

75 100

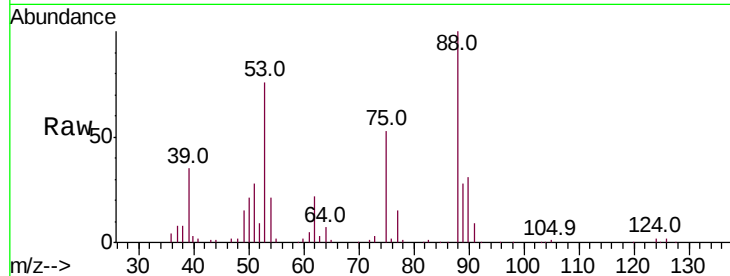
53 143.0 109.4 164.2

89 52.5 37.0 55.6

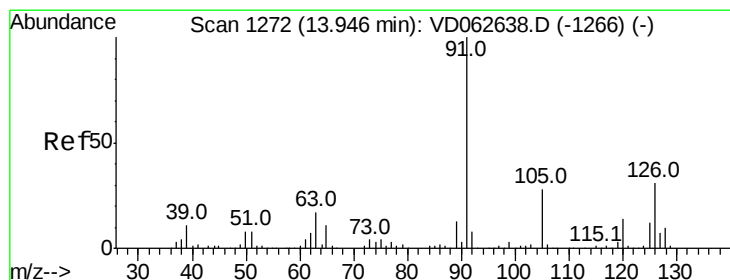
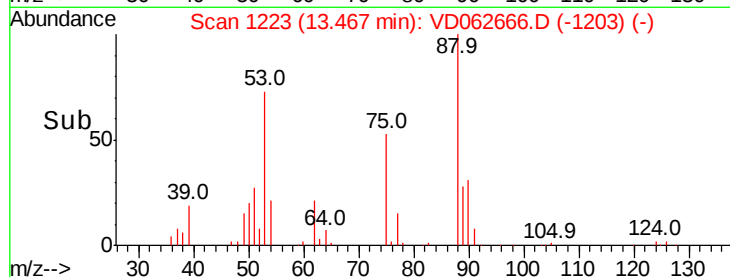
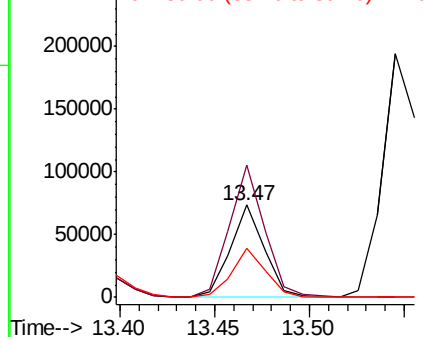
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Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 50.796 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD062666.D

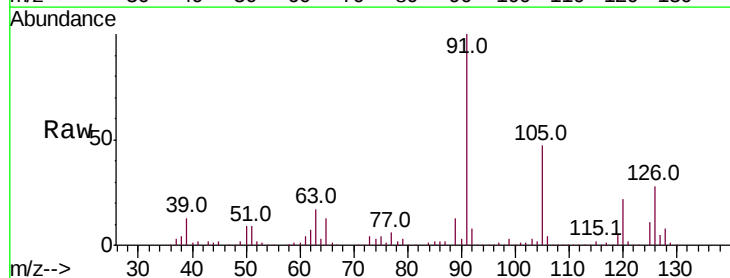
Acq: 12 Jun 2019 11:12

Tgt Ion: 91 Resp: 1497913

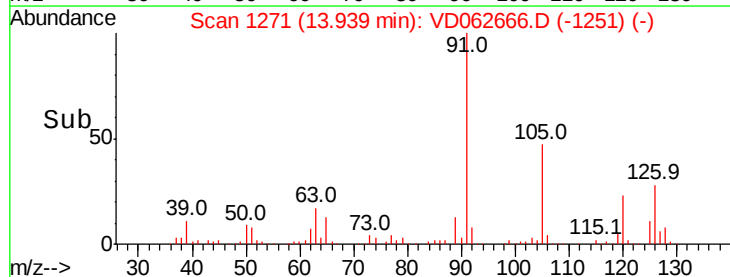
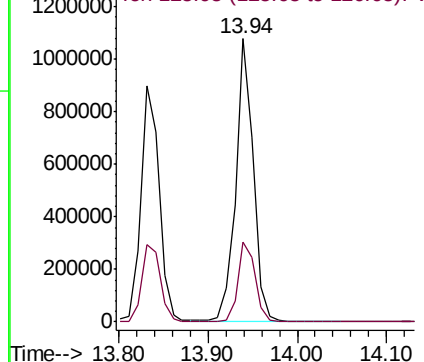
Ion Ratio Lower Upper

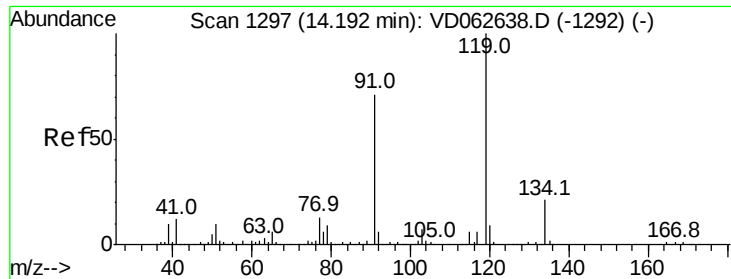
91 100

126 28.2 15.6 46.8



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





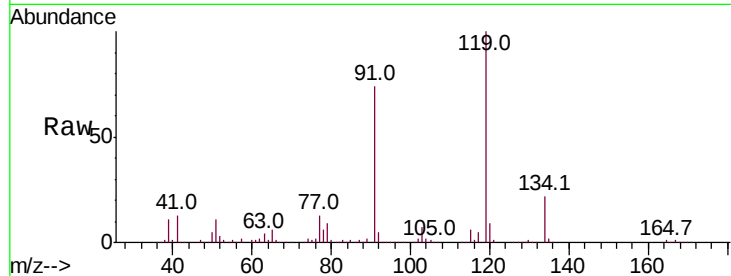
#83
tert-Butylbenzene
Concen: 56.753 ug/l
RT: 14.19 min Scan# 1296
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

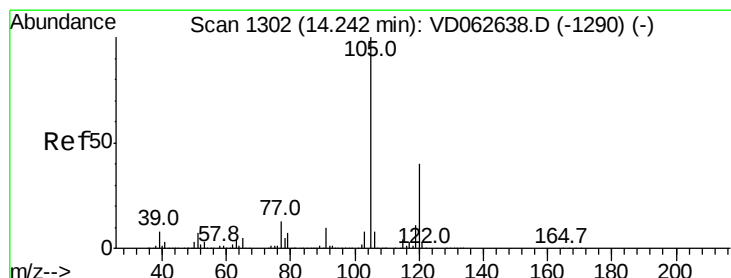
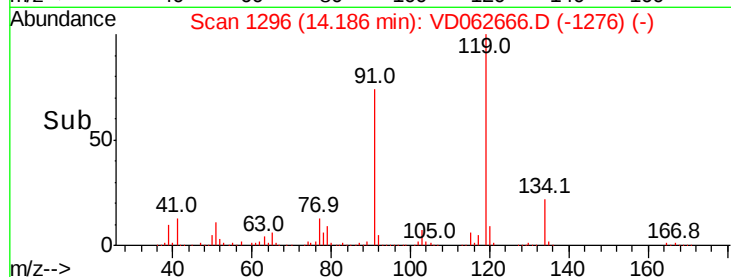
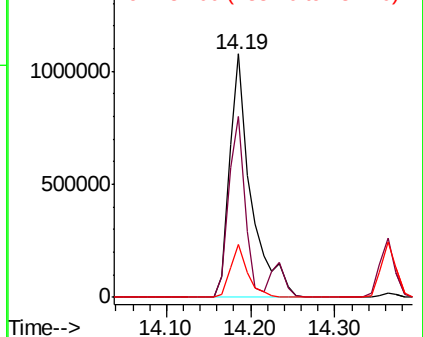
Tot Ion:119 Resp: 1903321
Ion Ratio Lower Upper
119 100
91 74.4 35.4 106.1
134 21.5 10.8 32.3

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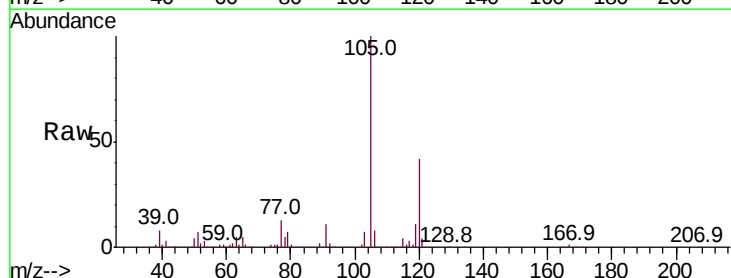


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

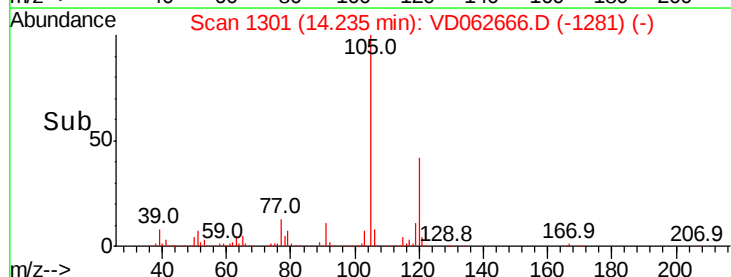
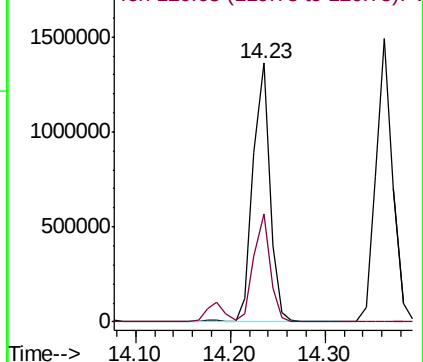


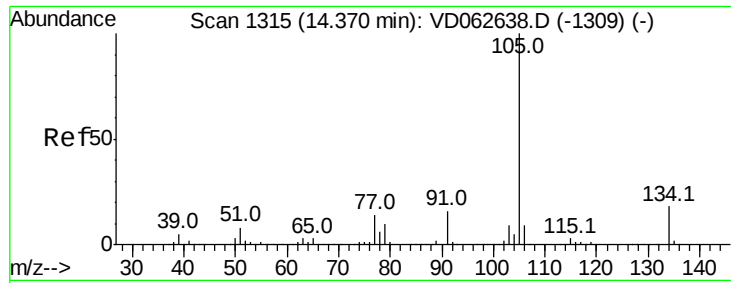
#84
1,2,4-Trimethylbenzene
Concen: 56.294 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion:105 Resp: 1694781
Ion Ratio Lower Upper
105 100
120 41.5 20.3 60.8



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





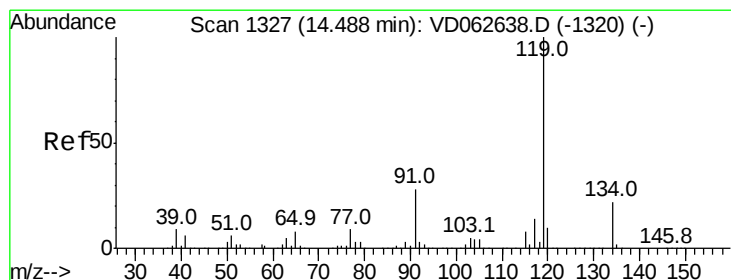
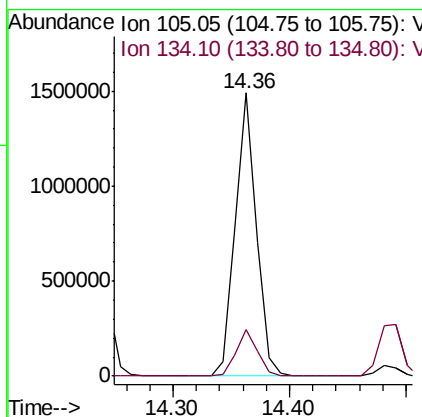
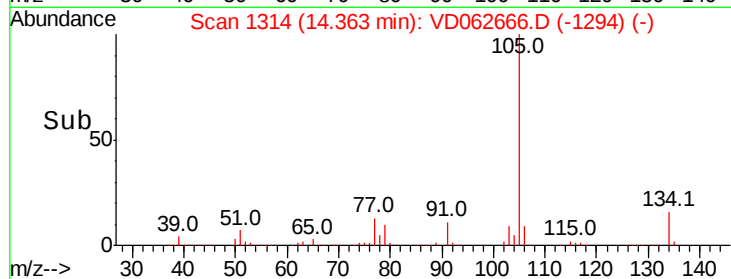
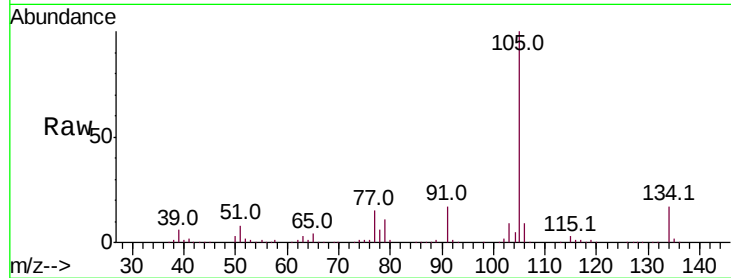
#85
 sec-Butylbenzene
 Concen: 53.031 ug/l
 RT: 14.36 min Scan# 1314
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1864927
 Ion Ratio Lower Upper
 105 100
 134 16.5 8.8 26.2

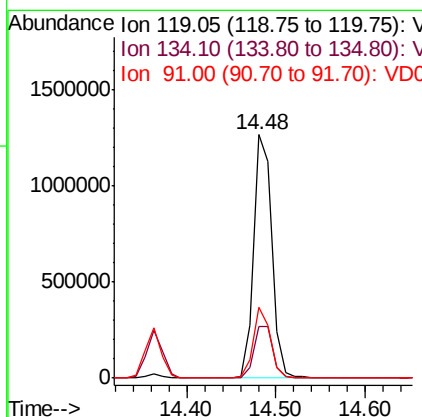
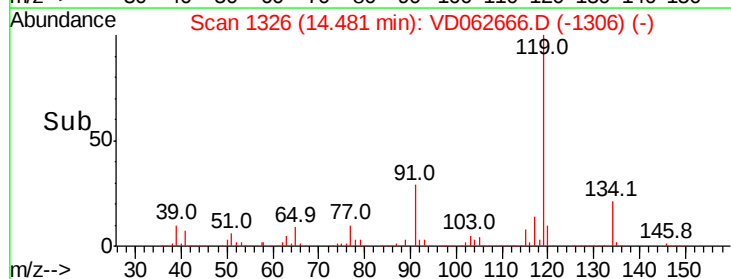
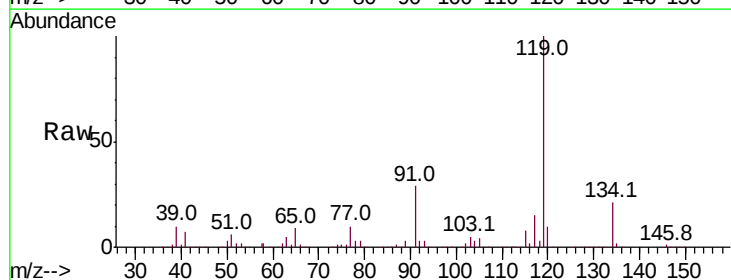
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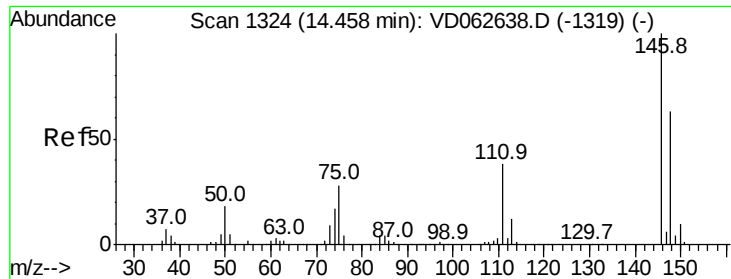
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#86
 p-Isopropyltoluene
 Concen: 51.195 ug/l
 RT: 14.48 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion:119 Resp: 1752884
 Ion Ratio Lower Upper
 119 100
 134 21.1 10.9 32.6
 91 29.3 13.9 41.6





#87

1,3-Dichlorobenzene

Concen: 50.068 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Instrument :

MSVOA_D

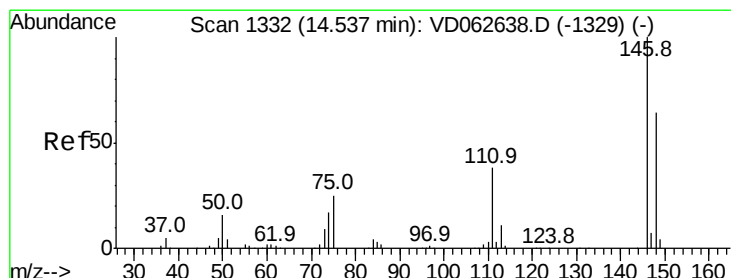
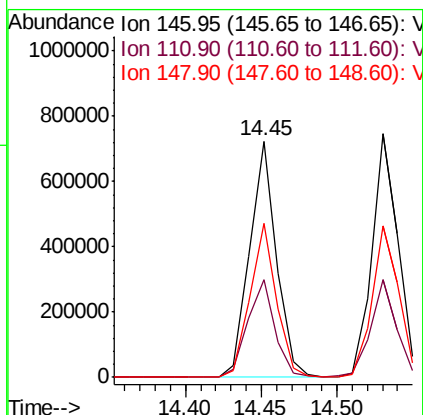
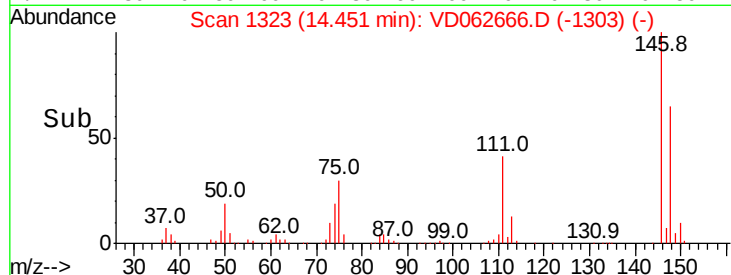
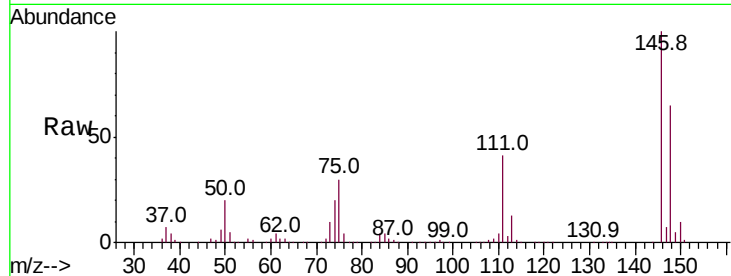
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	891922
Ion Ratio	Lower	Upper	
146	100		
111	41.2	19.2	57.6
148	65.2	31.6	95.0

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#88

1,4-Dichlorobenzene

Concen: 53.398 ug/l

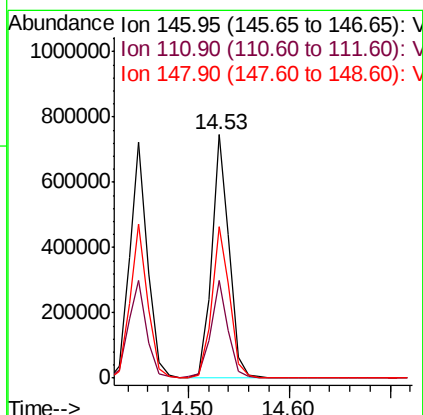
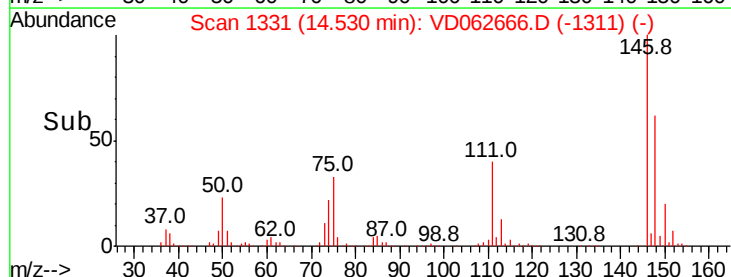
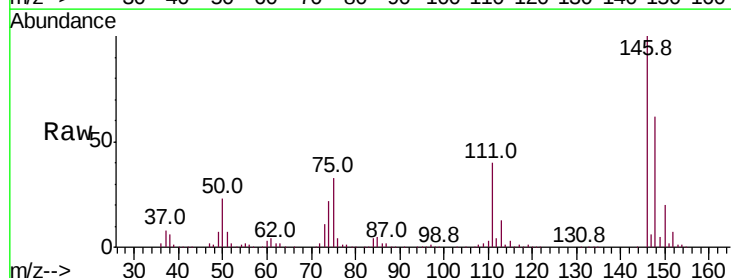
RT: 14.53 min Scan# 1331

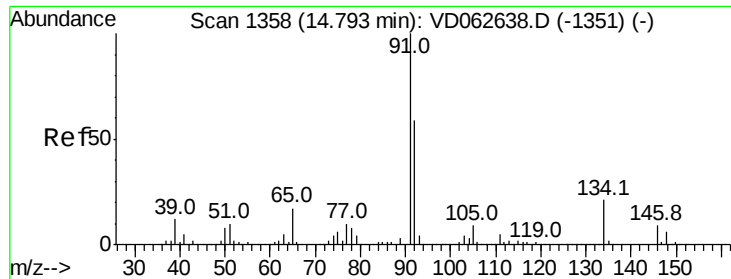
Delta R.T. -0.01 min

Lab File: VD062666.D

Acq: 12 Jun 2019 11:12

Tgt Ion:	146	Resp:	898982
Ion Ratio	Lower	Upper	
146	100		
111	40.3	18.9	56.7
148	62.4	32.3	96.8





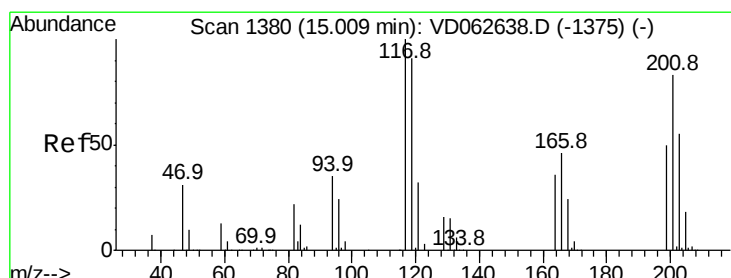
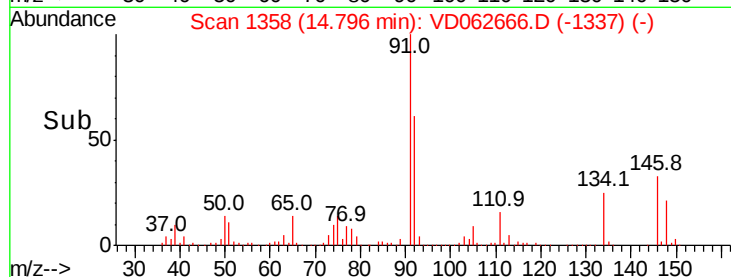
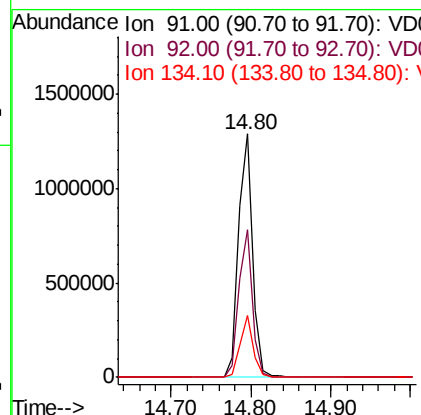
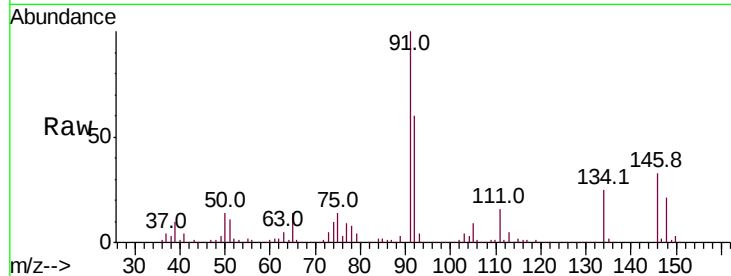
#89
n-Butylbenzene
Concen: 52.426 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.5	29.4	88.3
134	25.3	10.4	31.2

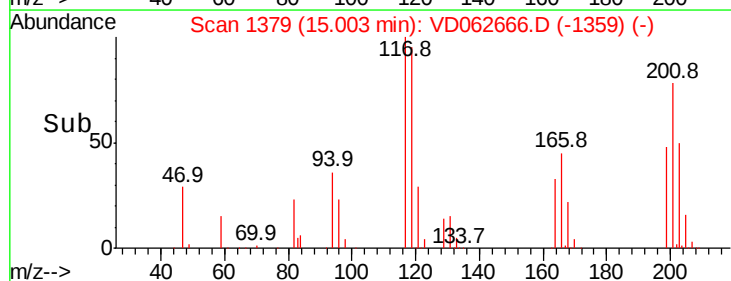
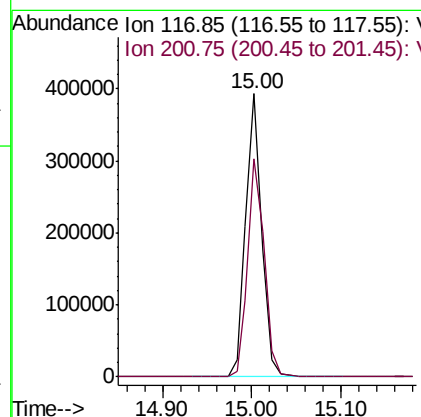
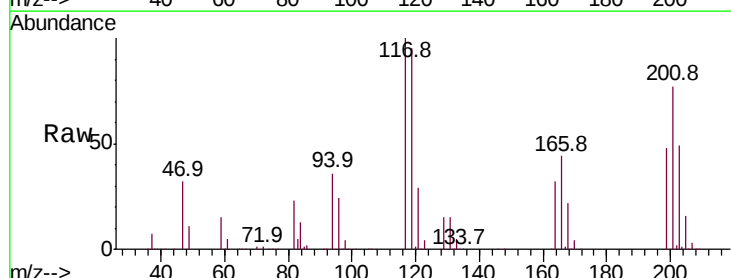
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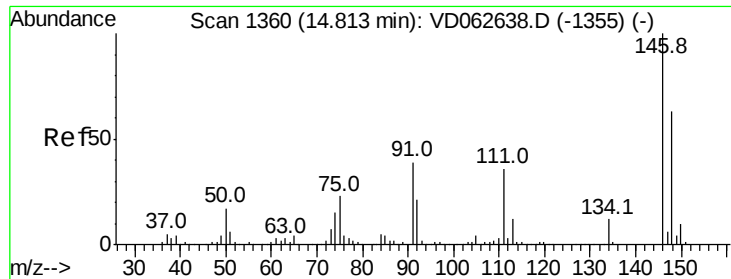
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#90
Hexachloroethane
Concen: 54.560 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.3	41.5	124.6





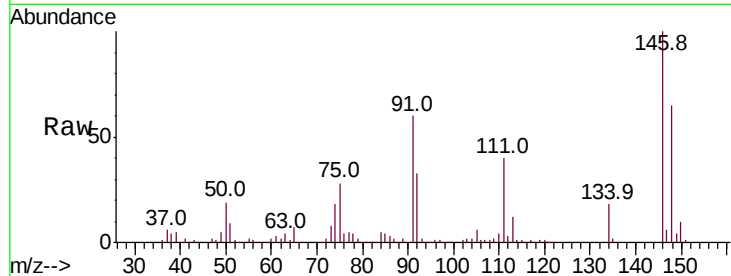
#91
 1,2-Dichlorobenzene
 Concen: 51.986 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

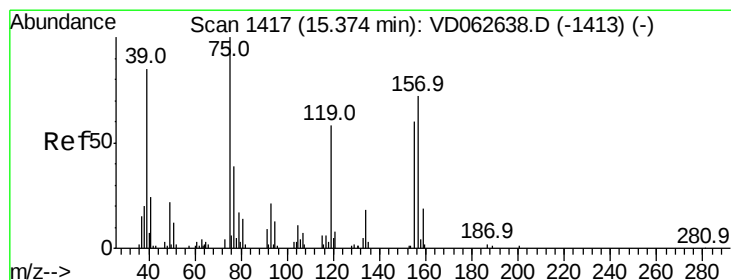
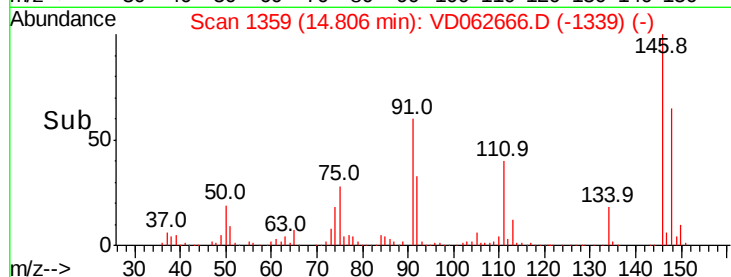
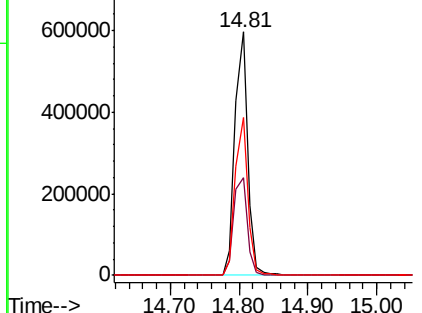
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	18.1	54.3
148	64.7	31.4	94.0

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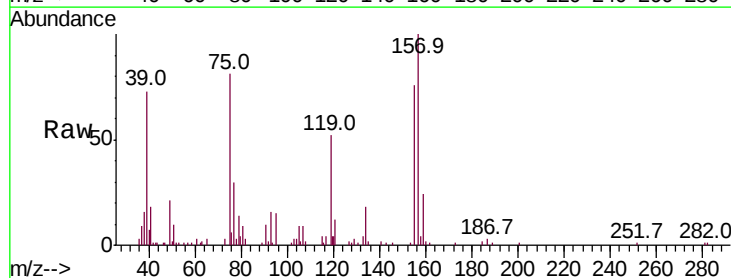


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

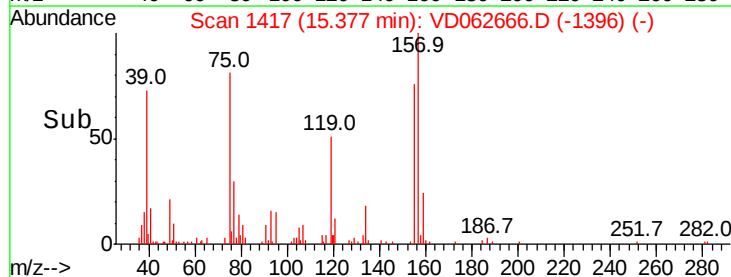
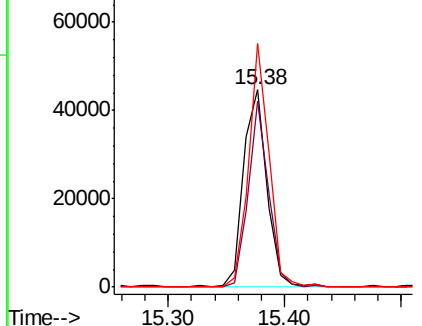


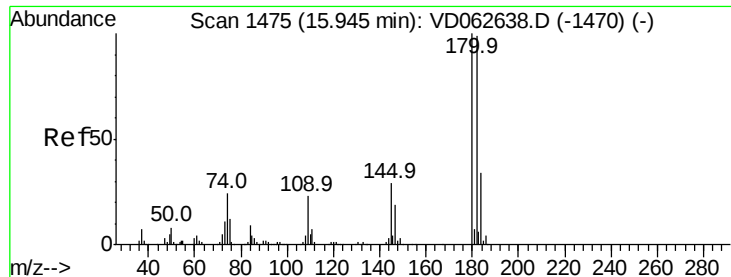
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.530 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD062666.D
 Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.5	30.1	90.5#
157	123.6	35.9	107.8#



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V





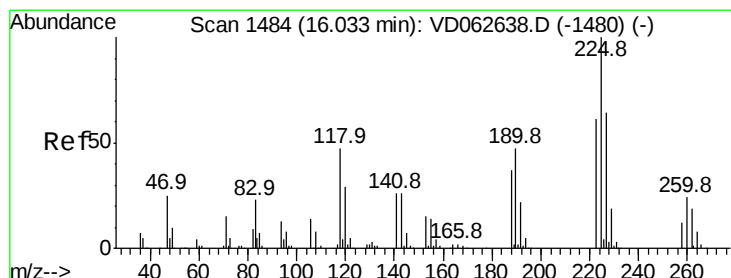
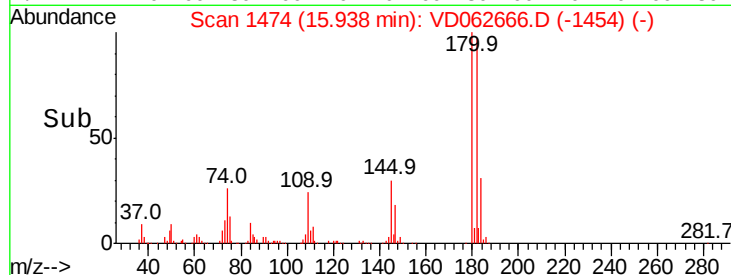
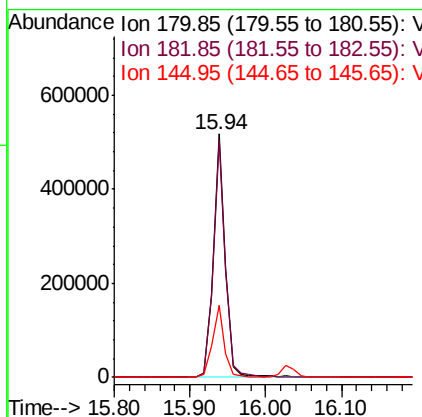
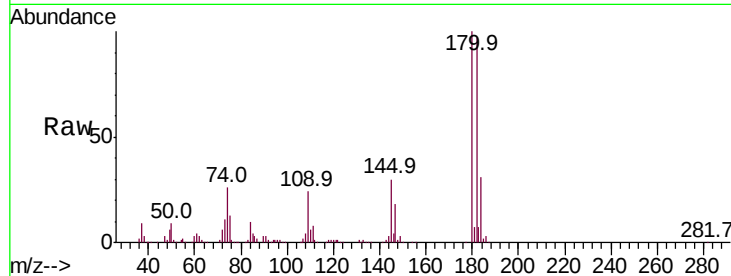
#93
1,2,4-Trichlorobenzene
Concen: 46.746 ug/l
RT: 15.94 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	49.4	148.2
145	29.5	14.5	43.6

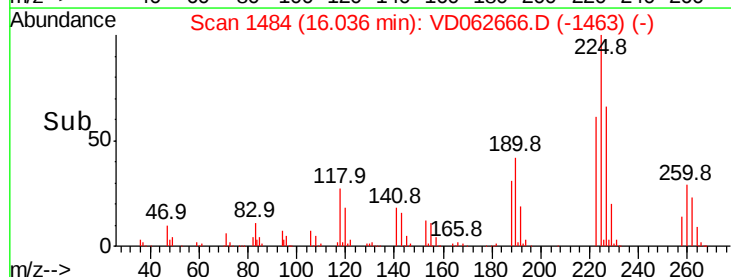
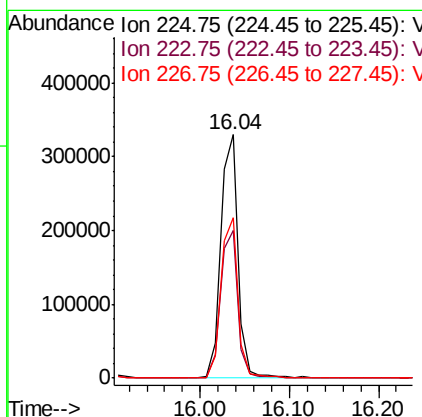
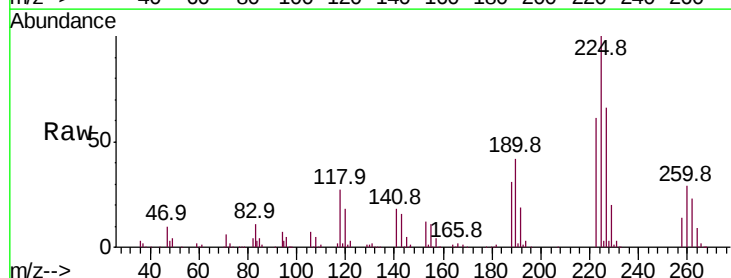
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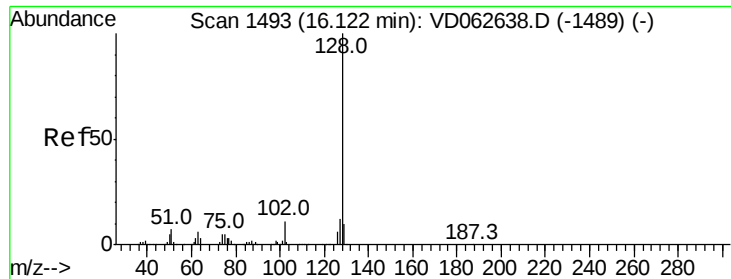
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#94
Hexachlorobutadiene
Concen: 51.684 ug/l
RT: 16.04 min Scan# 1484
Delta R.T. 0.00 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.6	30.3	91.0
227	65.7	31.8	95.4





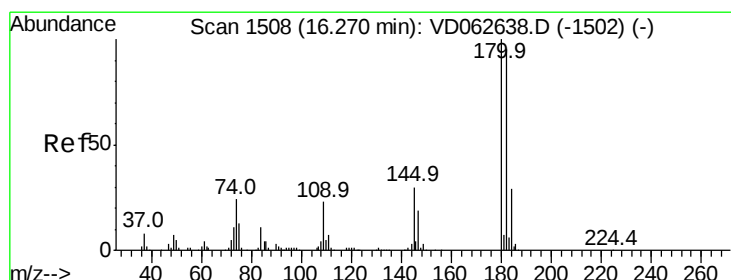
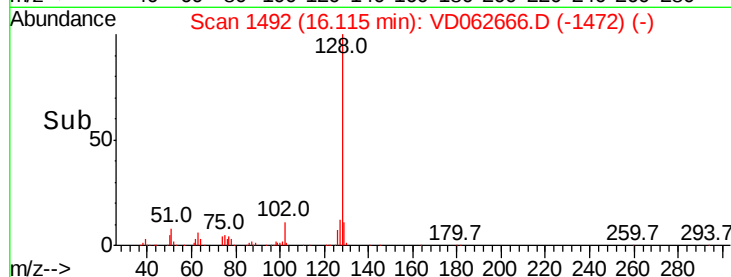
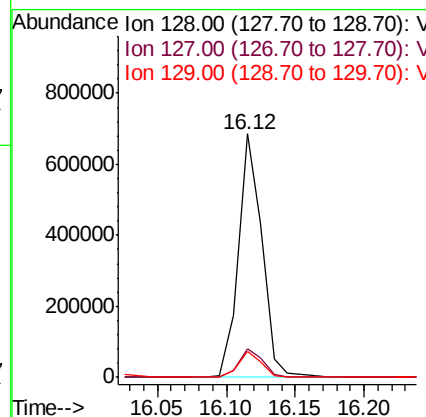
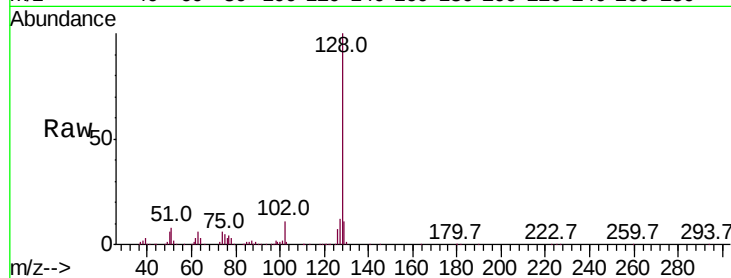
#95
Naphthalene
Concen: 46.263 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.7	14.5
129	10.8	8.1	12.1

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 52.659 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD062666.D
Acq: 12 Jun 2019 11:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.7	143.1
145	32.5	15.0	45.0

