

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061511.D
 Acq On : 2 Apr 2019 13:24
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 4/3/2019 1:02:52 PM

Quant Time: Apr 03 02:08:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	693842	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.20	114	1180712	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	988543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	412734	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	284736	48.04	ug/l	0.01
Spiked Amount 50.000			Recovery	=	96.08%	
35) Dibromofluoromethane	6.91	113	442203	49.01	ug/l	0.01
Spiked Amount 50.000			Recovery	=	98.02%	
50) Toluene-d8	10.40	98	1063901	49.16	ug/l	0.01
Spiked Amount 50.000			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	13.55	95	408153	49.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.36%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	368492	49.730	ug/l	100
3) Chloromethane	1.77	50	280049	46.341	ug/l	98
4) Vinyl Chloride	1.85	62	267027	48.124	ug/l	98
5) Bromomethane	2.16	94	56817	51.638	ug/l	95
6) Chloroethane	2.28	64	91476	56.217	ug/l	98
7) Trichlorofluoromethane	2.53	101	453313	56.182	ug/l	98
8) Diethyl Ether	2.87	74	118347	45.556	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.15	101	438314	50.530	ug/l	97
10) Methyl Iodide	3.31	142	594199	45.401	ug/l	99
11) Tert butyl alcohol	4.05	59	84829	229.814	ug/l	98
12) 1,1-Dichloroethene	3.13	96	376936	50.613	ug/l	97
13) Acrolein	3.04	56	61142	214.115	ug/l	95
14) Allyl chloride	3.62	41	519927	50.053	ug/l	97
15) Acrylonitrile	4.19	53	304501	237.679	ug/l	96
16) Acetone	3.21	43	406373	266.710	ug/l	97
17) Carbon Disulfide	3.38	76	1042037	43.064	ug/l	99
18) Methyl Acetate	3.64	43	150358	46.935	ug/l	96
19) Methyl tert-butyl Ether	4.23	73	618251	47.958	ug/l	99
20) Methylene Chloride	3.81	84	435980	51.122	ug/l	96
21) trans-1,2-Dichloroethene	4.22	96	397524	49.440	ug/l	96
22) Diisopropyl ether	5.11	45	1051252	47.824	ug/l	99
23) Vinyl Acetate	5.05	43	2727660	228.443	ug/l	97
24) 1,1-Dichloroethane	4.97	63	637449	49.345	ug/l	100
25) 2-Butanone	6.06	43	457697	238.804	ug/l	99
26) 2,2-Dichloropropane	6.02	77	531816	51.787	ug/l	99
27) cis-1,2-Dichloroethene	6.03	96	425333	48.281	ug/l	96
28) Bromochloromethane	6.43	49	240658	46.150	ug/l #	91
29) Tetrahydrofuran	6.44	42	232619	250.404	ug/l	98
30) Chloroform	6.66	83	739165	55.376	ug/l	97
31) Cyclohexane	6.94	56	535266	52.433	ug/l	99
32) 1,1,1-Trichloroethane	6.85	97	642424	54.554	ug/l	97
36) 1,1-Dichloropropene	7.14	75	506448	49.146	ug/l	98
37) Ethyl Acetate	6.17	43	218158	49.501	ug/l	99
38) Carbon Tetrachloride	7.10	117	588279m	49.680	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	551469	51.383	ug/l	98
40) Benzene	7.45	78	1244973	48.138	ug/l	95
41) Methacrylonitrile	6.43	41	258889	50.240	ug/l #	97
42) 1,2-Dichloroethane	7.56	62	396593	51.265	ug/l	98
43) Isopropyl Acetate	9.23	43	330035	51.469	ug/l #	100
44) Trichloroethene	8.53	130	474132	49.262	ug/l	100
45) 1,2-Dichloropropane	8.93	63	355323	54.182	ug/l	95
46) Dibromomethane	9.05	93	223451	50.623	ug/l	93
47) Bromodichloromethane	9.37	83	554352	55.955	ug/l	99
48) Methyl methacrylate	9.11	41	187814	53.071	ug/l	97
49) 1,4-Dioxane	9.07	88	40594	1039.969	ug/l	97
51) 4-Methyl-2-Pentanone	10.29	43	916563	234.942	ug/l	98
52) Toluene	10.50	92	833411	52.821	ug/l	99
53) t-1,3-Dichloropropene	10.90	75	470702	52.294	ug/l	98
54) cis-1,3-Dichloropropene	10.02	75	550150	50.195	ug/l	97
55) 1,1,2-Trichloroethane	11.18	97	284455	51.551	ug/l	98
56) Ethyl methacrylate	11.03	69	300215	50.645	ug/l	98
57) 1,3-Dichloropropane	11.39	76	404057	49.820	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.85	63	692819	239.996	ug/l	100
59) 2-Hexanone	11.52	43	737761	261.010	ug/l	100
60) Dibromochloromethane	11.68	129	437099	51.384	ug/l	96
61) 1,2-Dibromoethane	11.80	107	328226	51.369	ug/l	99
64) Tetrachloroethene	11.25	164	375009	48.337	ug/l	99
65) Chlorobenzene	12.39	112	1037039	51.332	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.51	131	397413	50.806	ug/l	99
67) Ethyl Benzene	12.52	91	1556822	50.486	ug/l	98
68) m/p-Xylenes	12.66	106	1183825	101.346	ug/l	96
69) o-Xylene	13.04	106	523860	46.214	ug/l	99
70) Styrene	13.07	104	895992	45.344	ug/l	97
71) Bromoform	13.22	173	238506	48.100	ug/l	98
73) Isopropylbenzene	13.39	105	1447020	50.373	ug/l	97
74) N-amyl acetate	13.26	43	400987	50.110	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.70	83	290860	47.999	ug/l	94
76) 1,2,3-Trichloropropane	13.73	75	282459	47.376	ug/l	98
77) Bromobenzene	13.67	156	420114	49.332	ug/l	81
78) n-propylbenzene	13.77	91	1762997	50.151	ug/l	97
79) 2-Chlorotoluene	13.83	91	1018377	53.353	ug/l	98
80) 1,3,5-Trimethylbenzene	13.92	105	1160309	52.060	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	97601	53.691	ug/l	96
82) 4-Chlorotoluene	13.94	91	1124326	54.172	ug/l	97
83) tert-Butylbenzene	14.18	119	1466902	52.664	ug/l	99
84) 1,2,4-Trimethylbenzene	14.23	105	1280916	53.085	ug/l	99
85) sec-Butylbenzene	14.37	105	1559111	52.690	ug/l	98
86) p-Isopropyltoluene	14.48	119	1325319	52.967	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	735106	50.975	ug/l	94
88) 1,4-Dichlorobenzene	14.53	146	732963	52.119	ug/l	97
89) n-Butylbenzene	14.79	91	1218829	53.072	ug/l	99
90) Hexachloroethane	15.01	117	387174	54.772	ug/l	93
91) 1,2-Dichlorobenzene	14.80	146	604418	51.097	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.37	75	39777	55.968	ug/l	93

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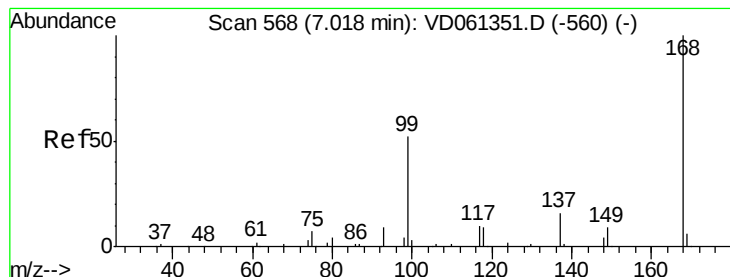
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	274313	50.908	ug/l	99
94) Hexachlorobutadiene	16.03	225	235559	55.944	ug/l	99
95) Naphthalene	16.12	128	422025	51.383	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	132148	55.732	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

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MSVOA_D

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VSTDCCC050

Tot Ion:168 Resp: 693842

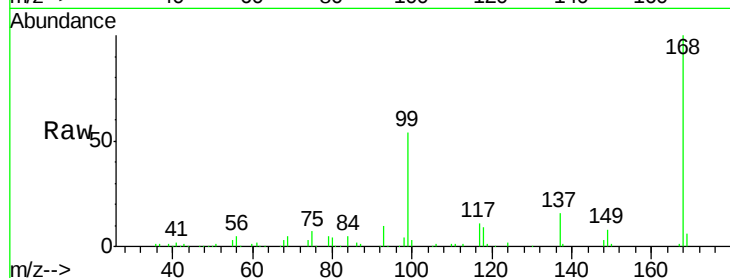
Ion Ratio Lower Upper

168 100

99 54.2 43.1 64.7

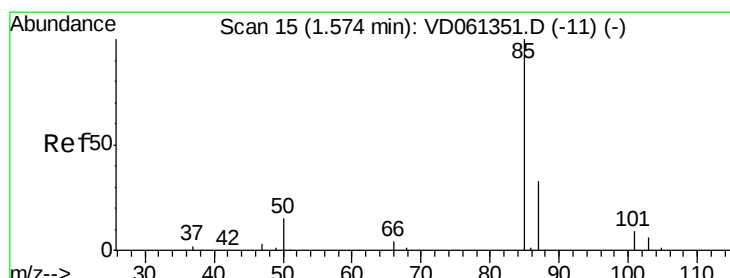
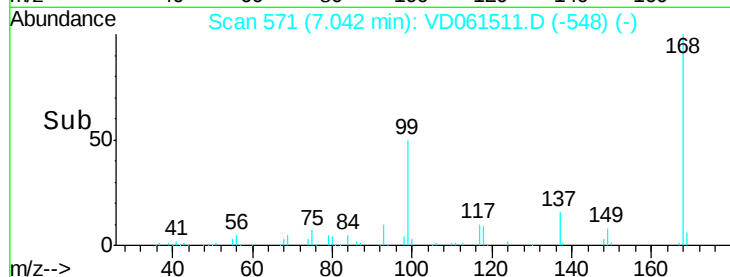
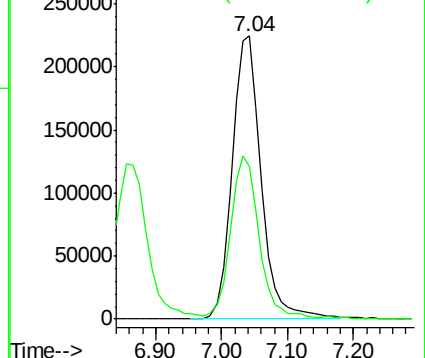
Manual Integrations
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 49.730 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.01 min

Lab File: VD061511.D

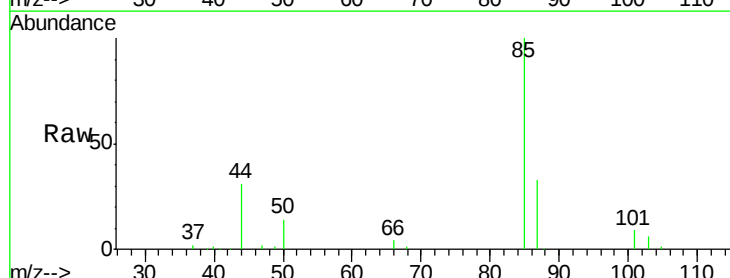
Acq: 2 Apr 2019 13:24

Tgt Ion: 85 Resp: 368492

Ion Ratio Lower Upper

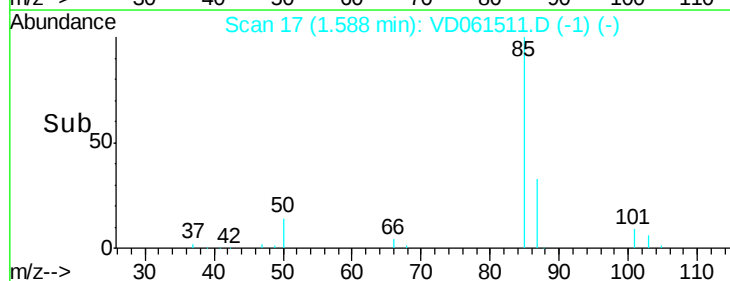
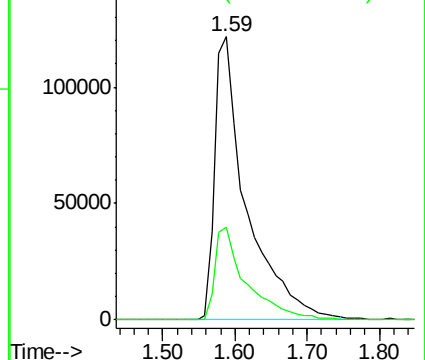
85 100

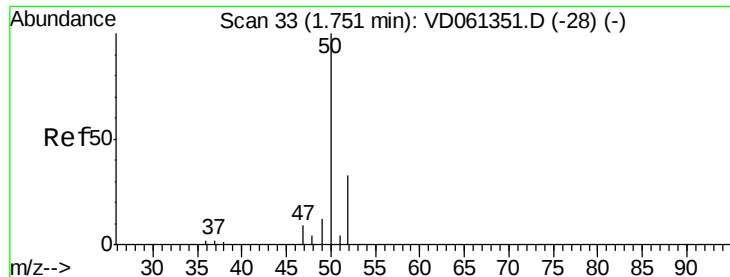
87 32.9 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 46.341 ug/l

RT: 1.77 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 280049

Ion Ratio Lower Upper

50 100

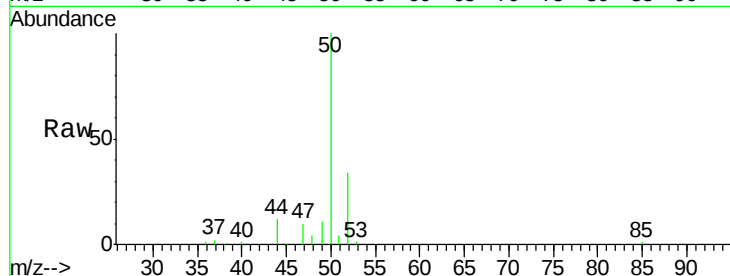
52 33.9 26.1 39.1

Manual Integrations

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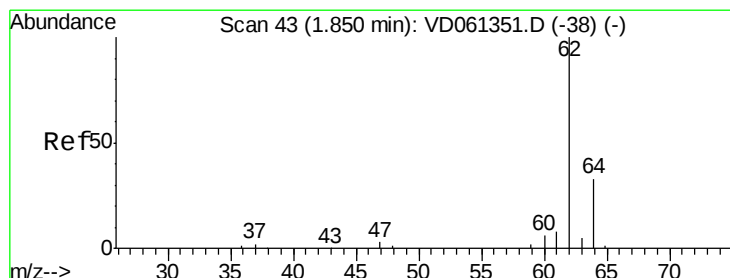
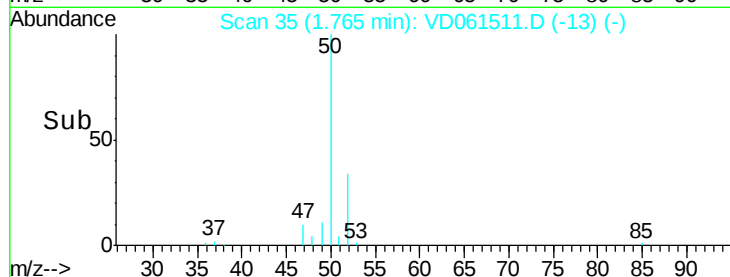
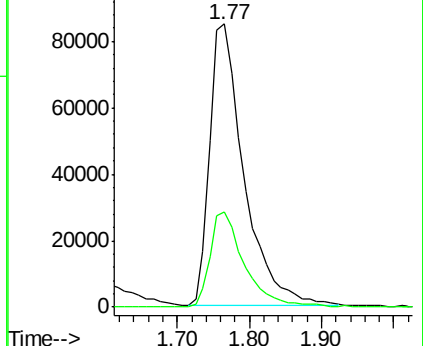
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 48.124 ug/l

RT: 1.85 min Scan# 44

Delta R.T. 0.00 min

Lab File: VD061511.D

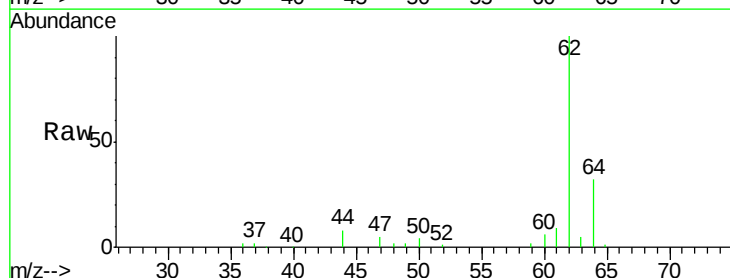
Acq: 2 Apr 2019 13:24

Tgt Ion: 62 Resp: 267027

Ion Ratio Lower Upper

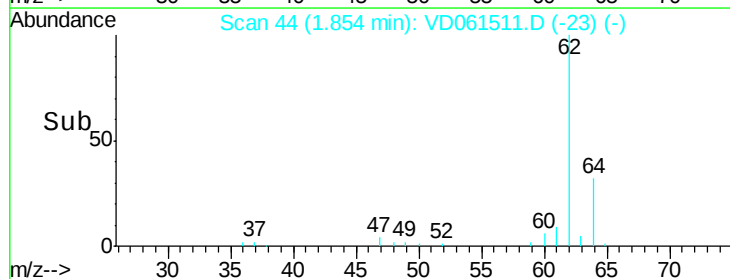
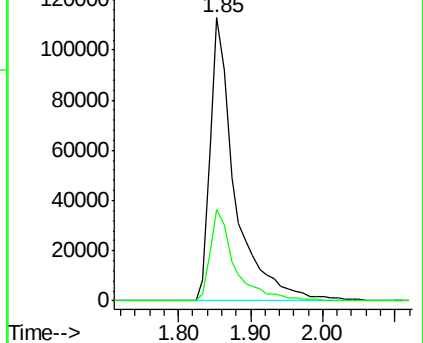
62 100

64 32.3 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 51.638 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

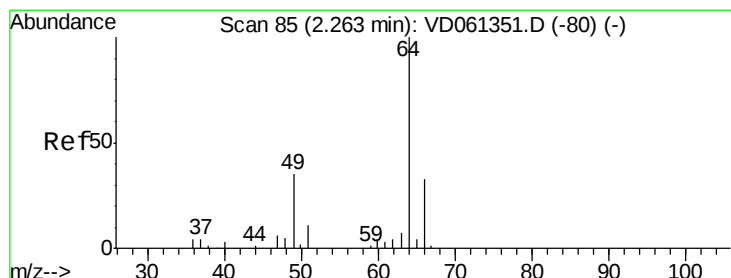
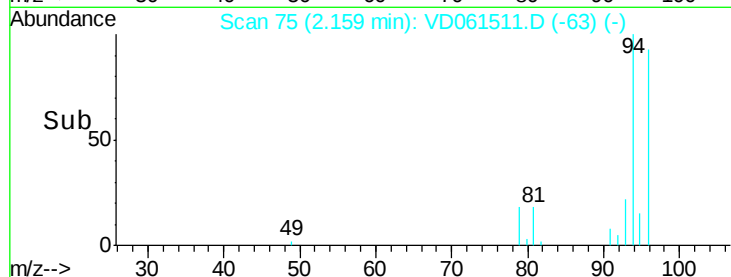
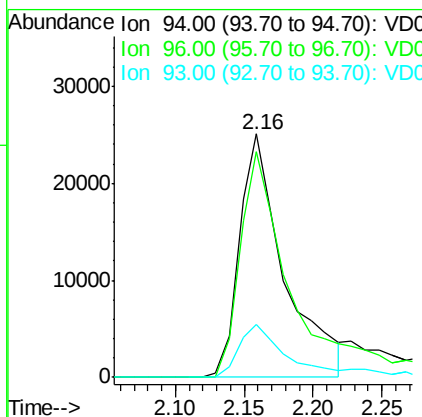
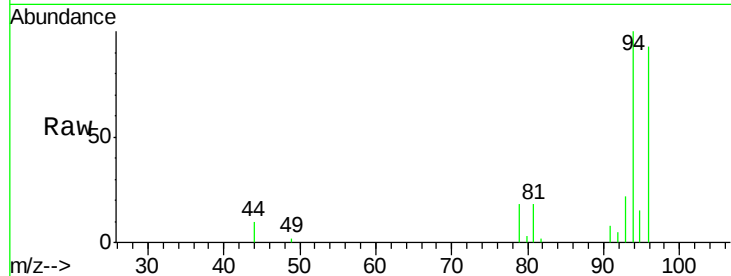
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	56817
Ion	Ratio	Lower	Upper
94	100		
96	92.9	78.3	117.5
93	21.7	15.6	23.4

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#6

Chloroethane

Concen: 56.217 ug/l

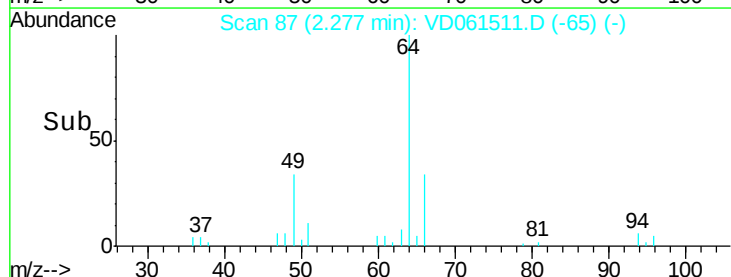
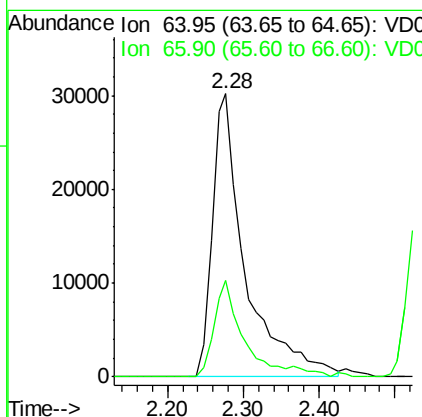
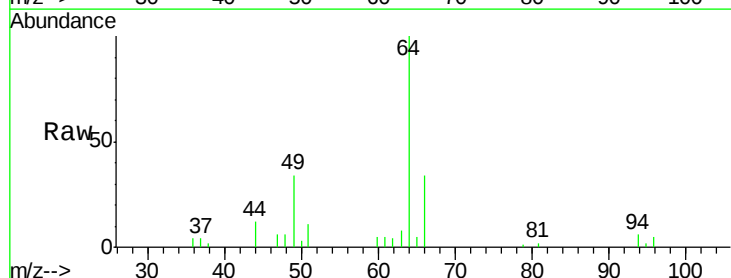
RT: 2.28 min Scan# 87

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tgt Ion:	64	Resp:	91476
Ion	Ratio	Lower	Upper
64	100		
66	33.9	26.2	39.2





#7

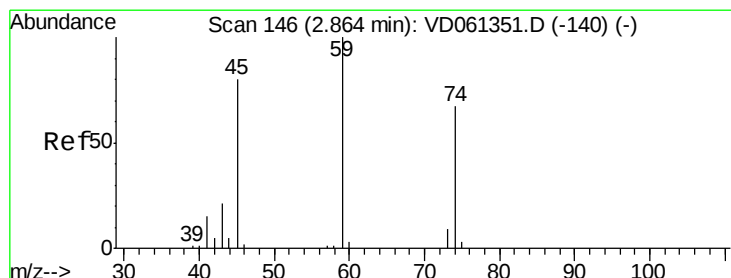
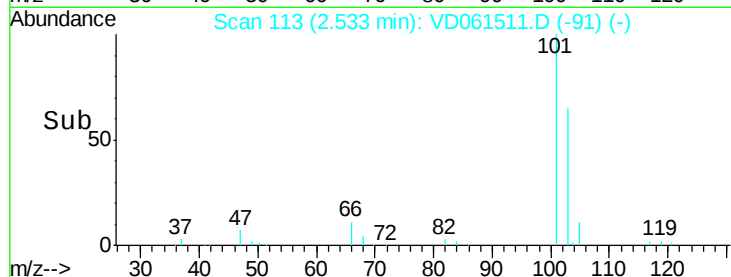
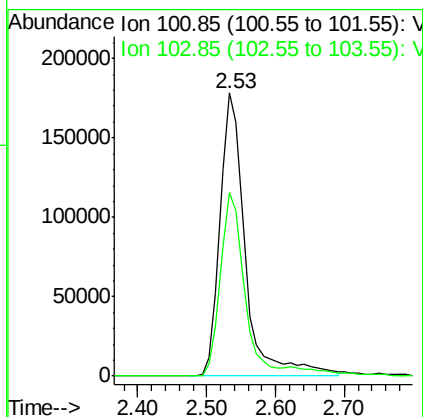
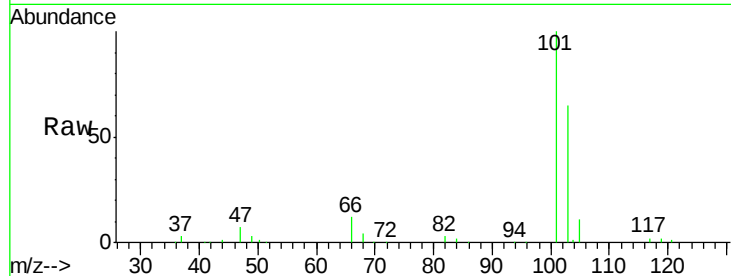
Trichlorofluoromethane
Concen: 56.182 ug/l
RT: 2.53 min Scan# 113
Delta R.T. 0.01 min
Lab File: VD061511.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	53.1	79.7

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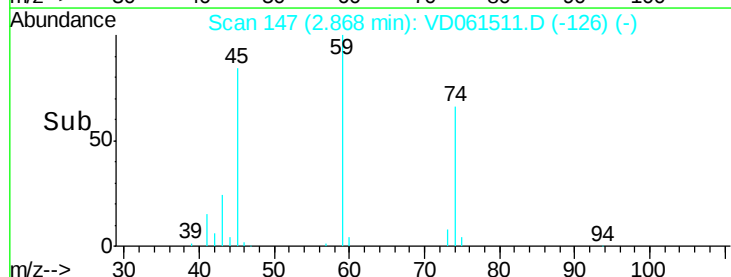
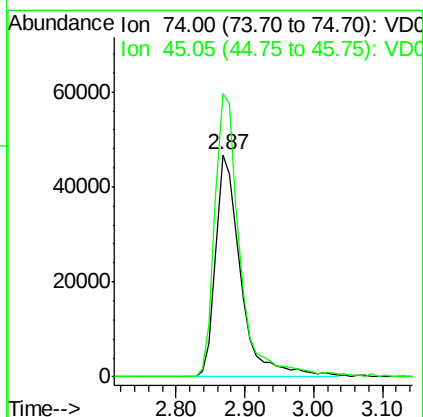
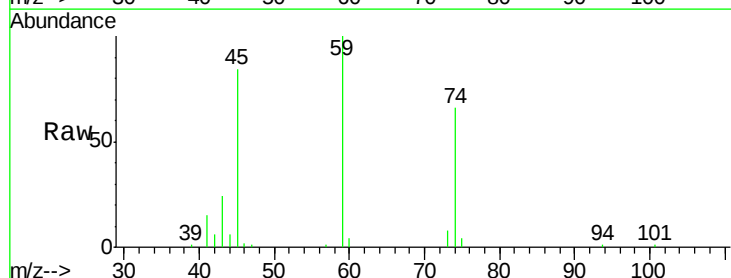
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4/3/2019 1:02:52 PM

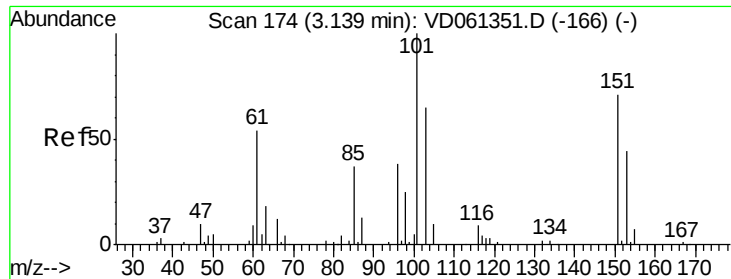


#8

Diethyl Ether
Concen: 45.556 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.3	59.7	179.1





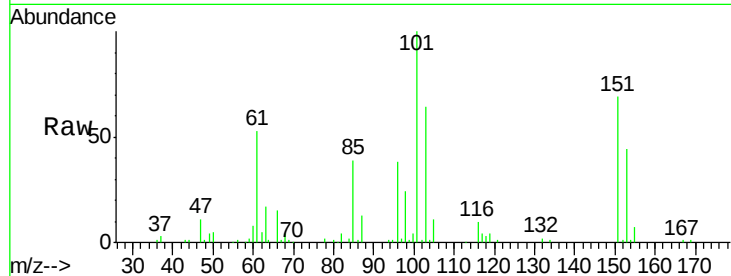
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 50.530 ug/l
 RT: 3.15 min Scan# 176
 Delta R.T. 0.01 min
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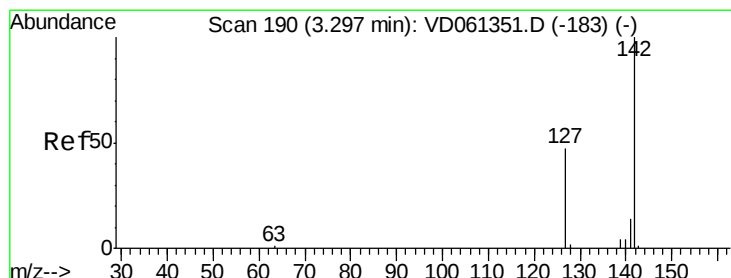
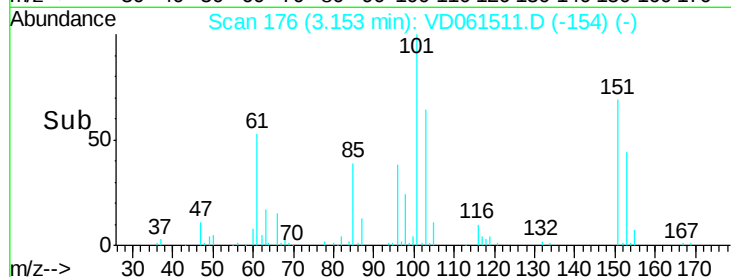
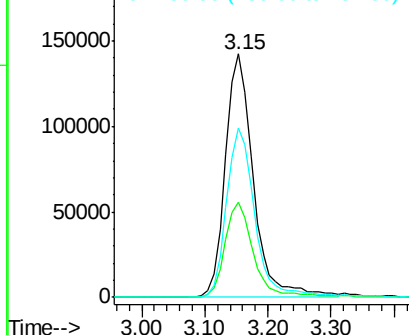
Tot Ion	Ratio	Resp	Lower	Upper
101	100	438314		
85	39.2	29.4	44.0	
151	69.5	57.0	85.4	

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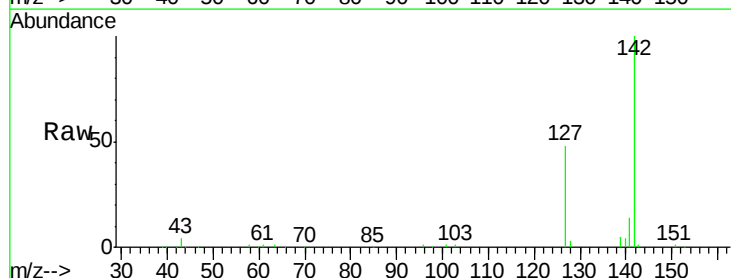


Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 84.95 (84.65 to 85.65): V
 Ion 150.90 (150.60 to 151.60): V

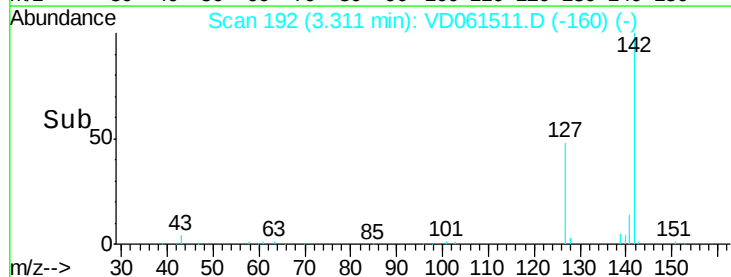
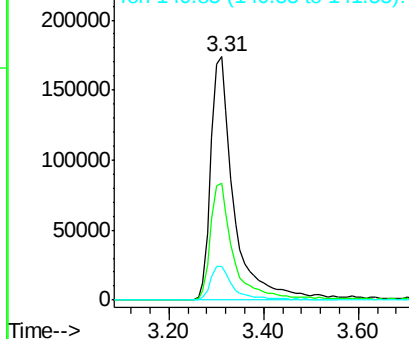


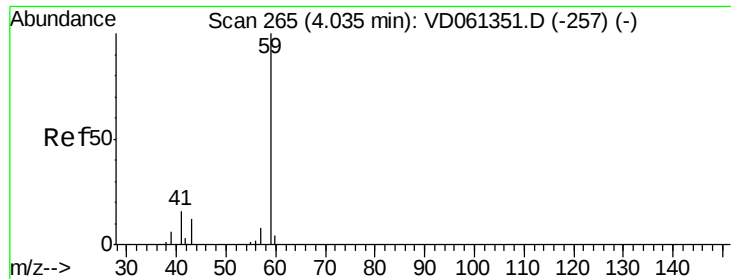
#10
 Methyl Iodide
 Concen: 45.401 ug/l
 RT: 3.31 min Scan# 192
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	594199		
127	48.0	37.7	56.5	
141	13.6	11.5	17.3	



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





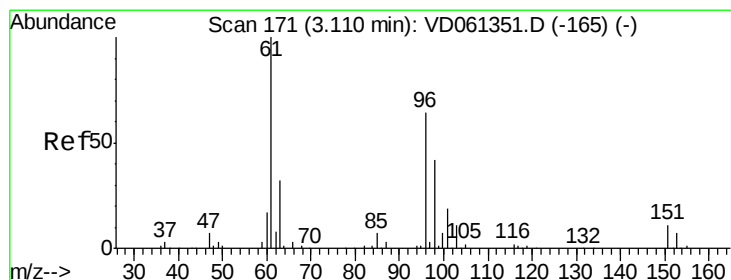
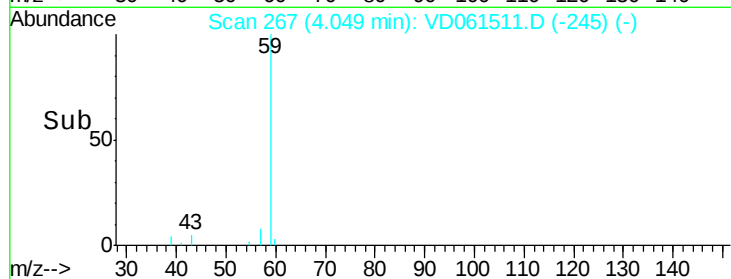
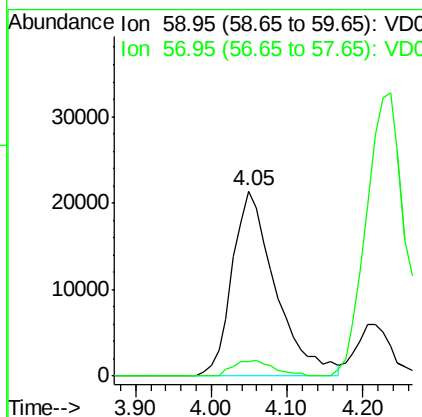
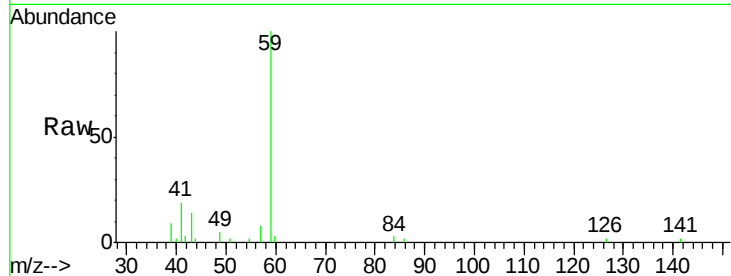
#11
Tert butyl alcohol
Concen: 229.814 ug/l
RT: 4.05 min Scan# 267
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 84829
Ion Ratio Lower Upper
59 100
57 7.7 6.7 10.1

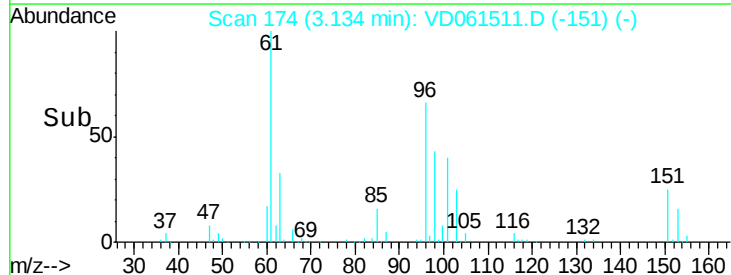
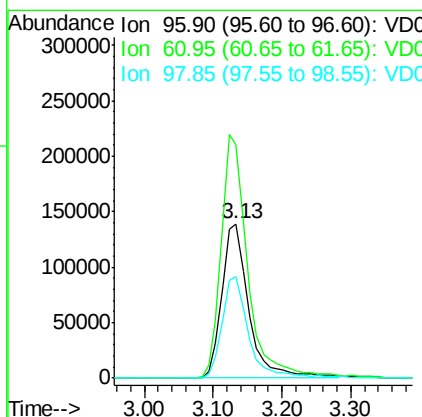
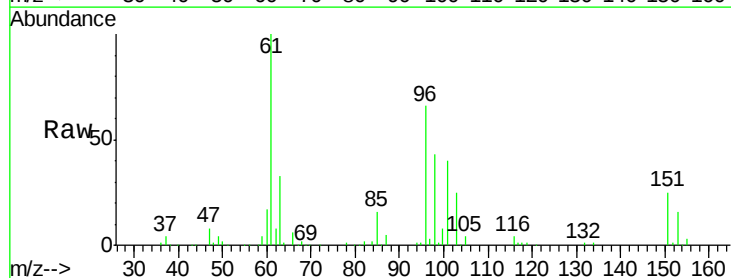
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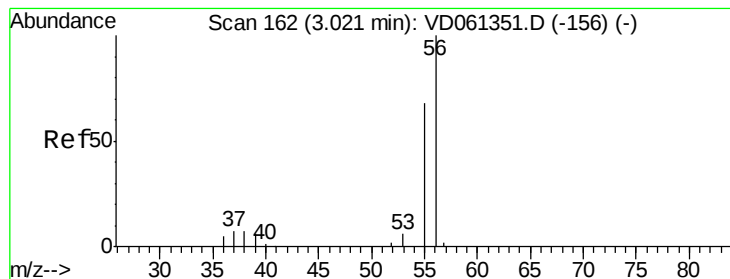
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#12
1,1-Dichloroethene
Concen: 50.613 ug/l
RT: 3.13 min Scan# 174
Delta R.T. 0.02 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion: 96 Resp: 376936
Ion Ratio Lower Upper
96 100
61 151.3 124.9 187.3
98 65.7 52.5 78.7





#13

Acrolein

Concen: 214.115 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 61142

Ion Ratio Lower Upper

56 100

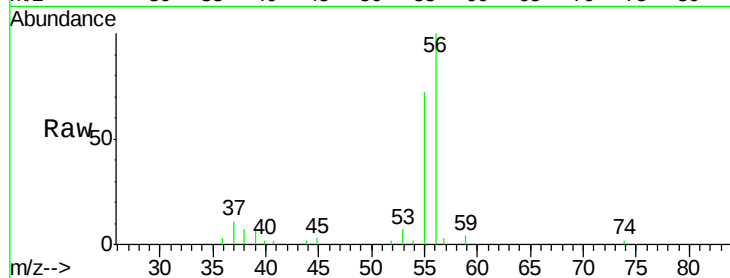
55 72.0 54.6 82.0

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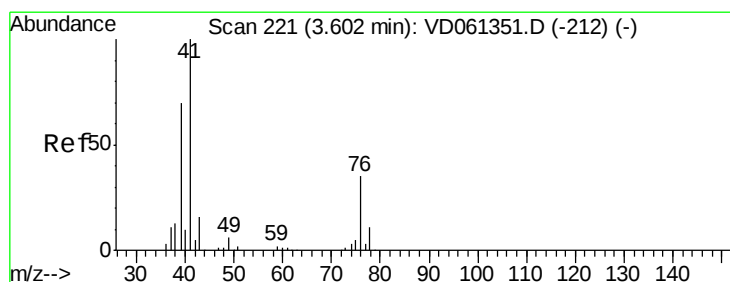
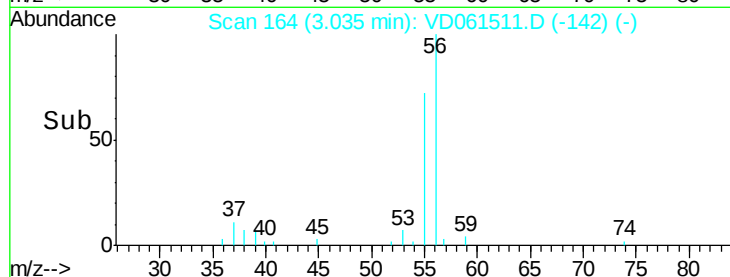
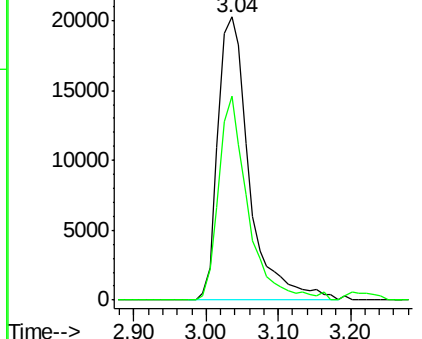
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 50.053 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

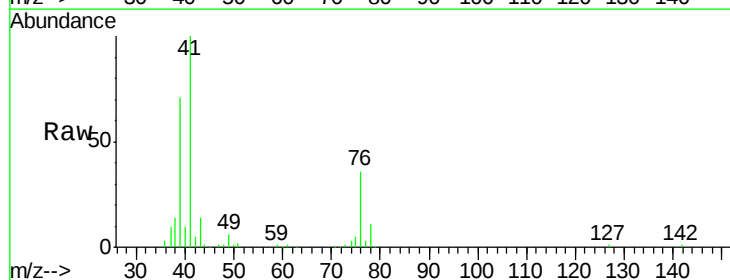
Tgt Ion: 41 Resp: 519927

Ion Ratio Lower Upper

41 100

39 70.9 55.6 83.4

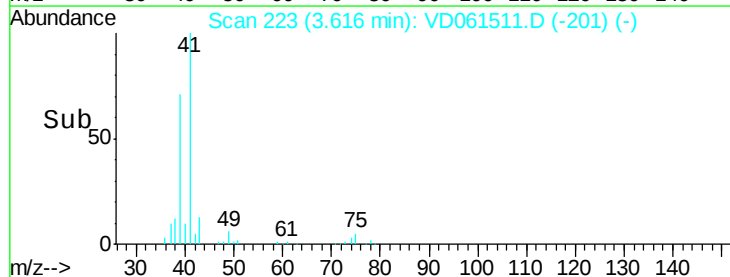
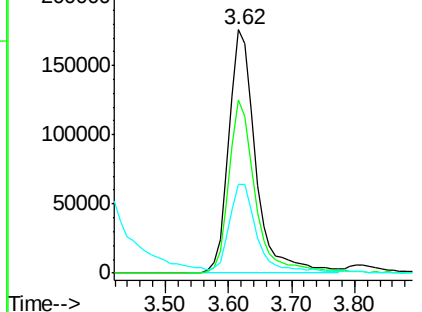
76 36.2 31.0 46.6

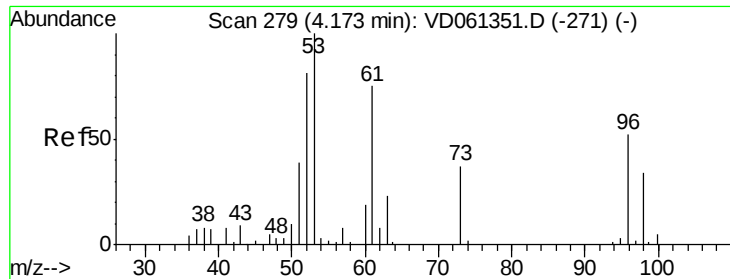


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 237.679 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

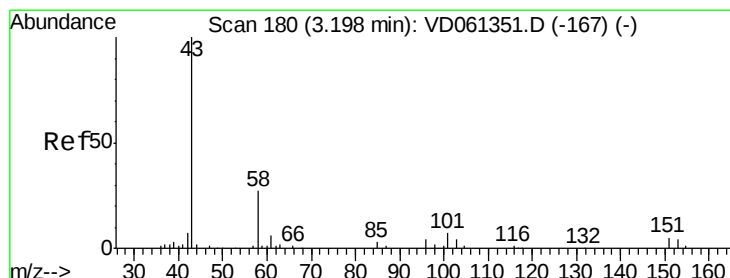
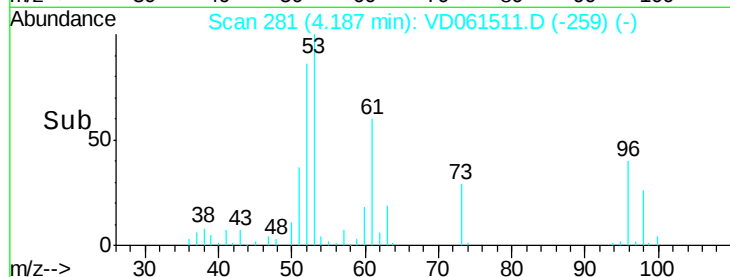
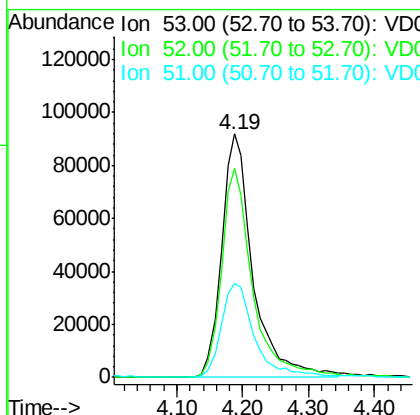
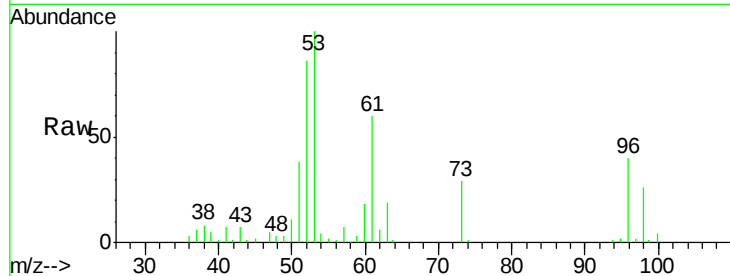
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	304501
Ion	Ratio	Lower	Upper
53	100		
52	86.0	64.8	97.2
51	38.4	31.4	47.2

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#16

Acetone

Concen: 266.710 ug/l

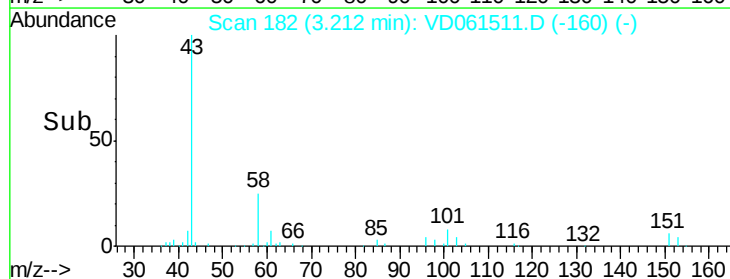
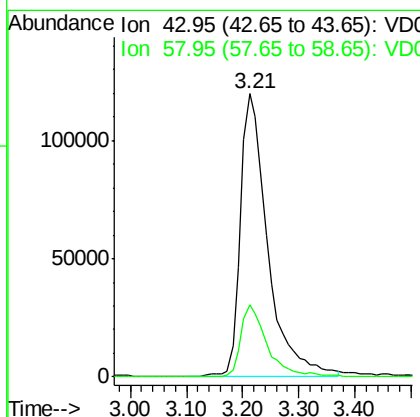
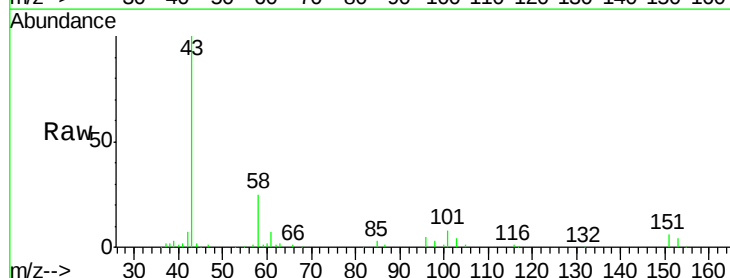
RT: 3.21 min Scan# 182

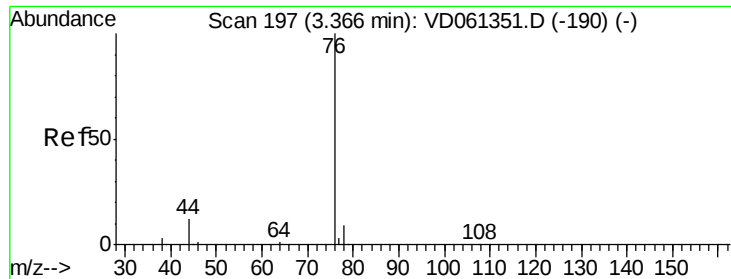
Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tgt Ion:	43	Resp:	406373
Ion	Ratio	Lower	Upper
43	100		
58	25.3	21.5	32.3





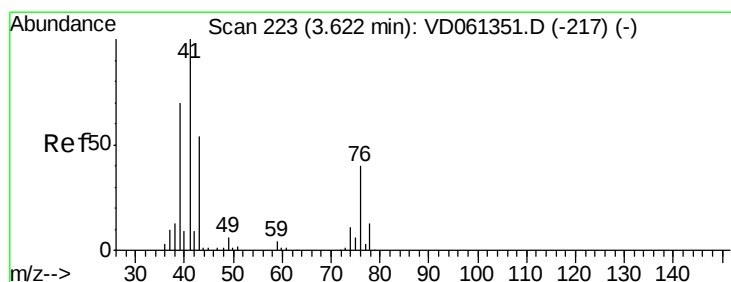
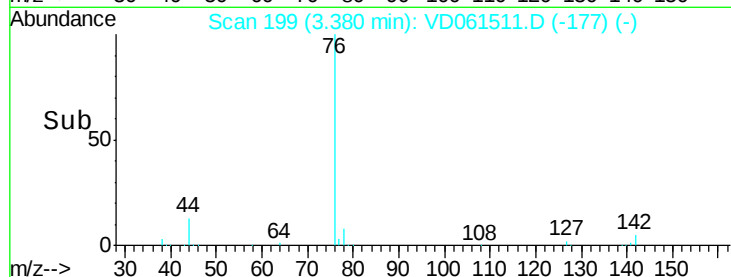
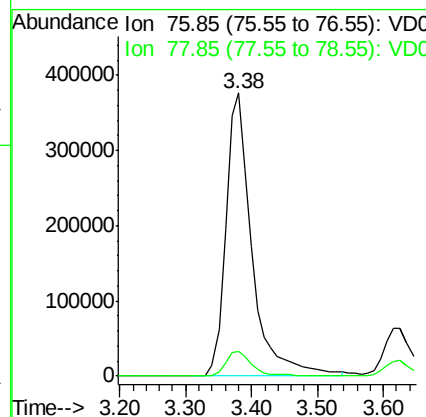
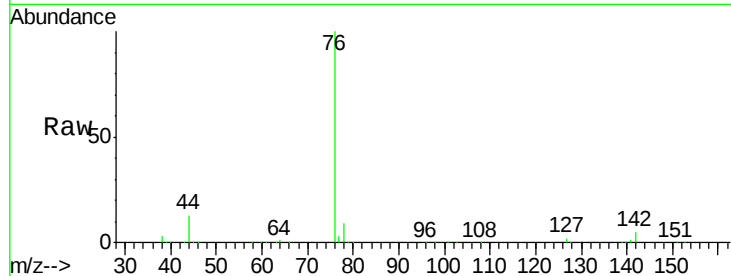
#17
Carbon Disulfide
Concen: 43.064 ug/l
RT: 3.38 min Scan# 199
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1042037
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7

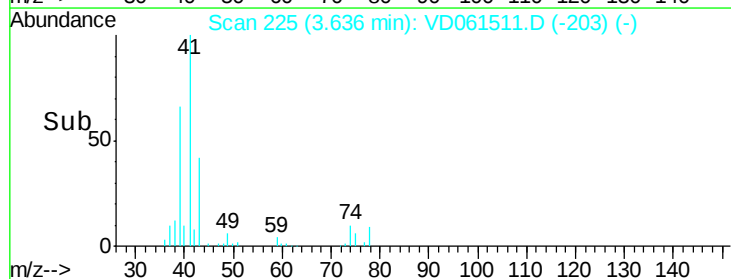
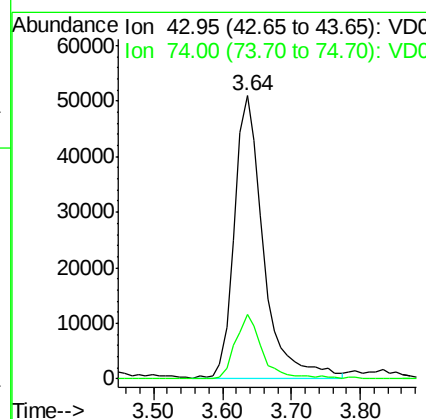
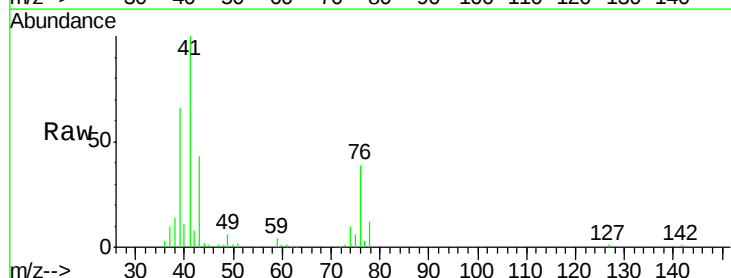
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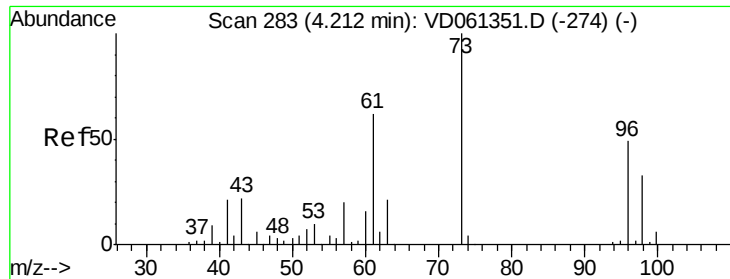
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#18
Methyl Acetate
Concen: 46.935 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion: 43 Resp: 150358
Ion Ratio Lower Upper
43 100
74 22.8 16.7 25.1





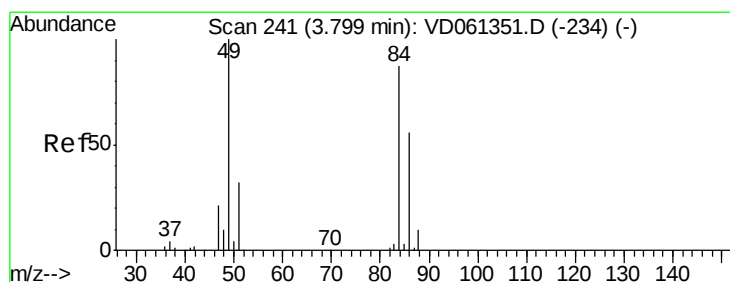
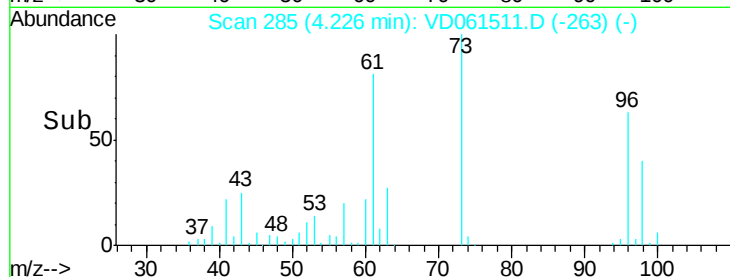
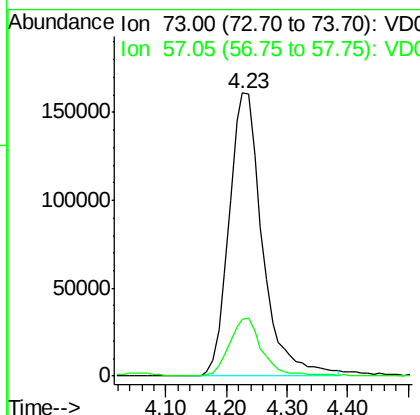
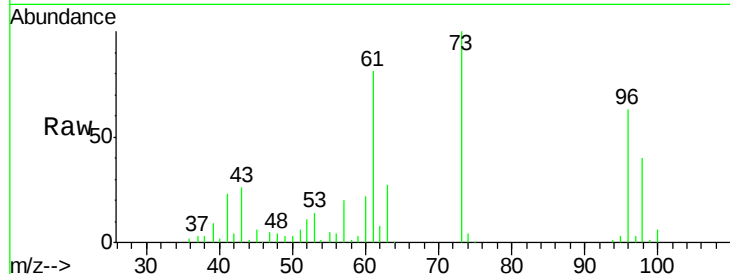
#19
Methyl tert-butyl Ether
Concen: 47.958 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 618251
Ion Ratio Lower Upper
73 100
57 20.0 16.4 24.6

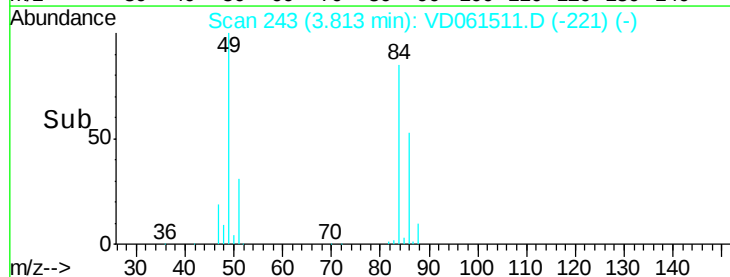
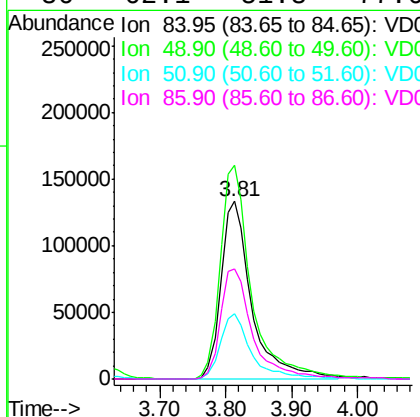
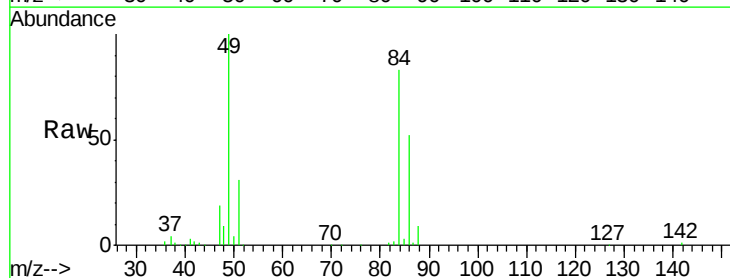
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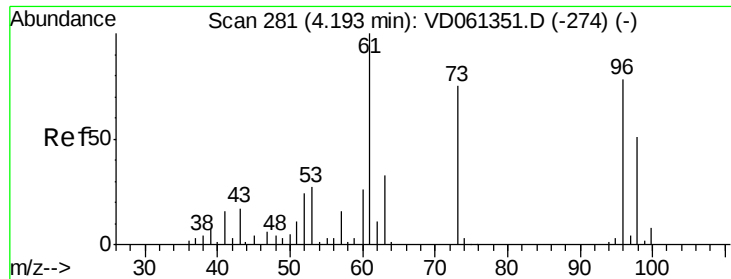
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#20
Methylene Chloride
Concen: 51.122 ug/l
RT: 3.81 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion: 84 Resp: 435980
Ion Ratio Lower Upper
84 100
49 120.2 91.8 137.8
51 37.0 29.8 44.8
86 62.1 51.8 77.6





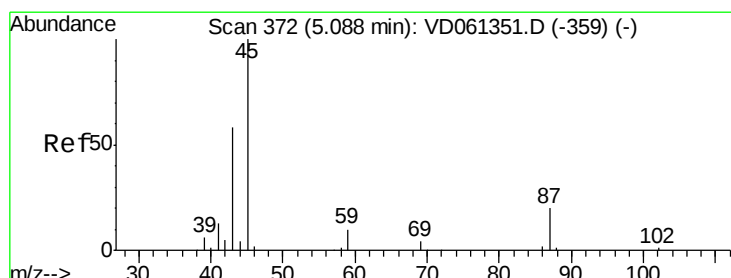
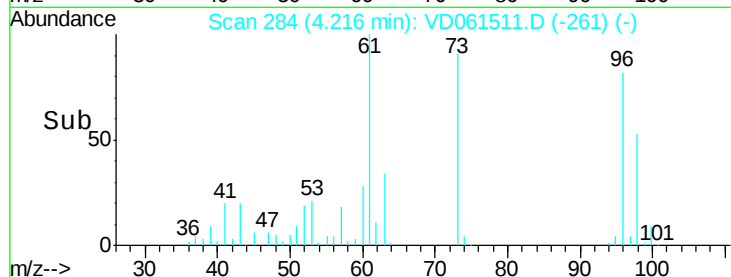
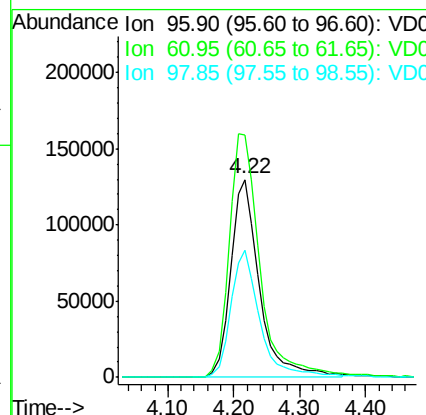
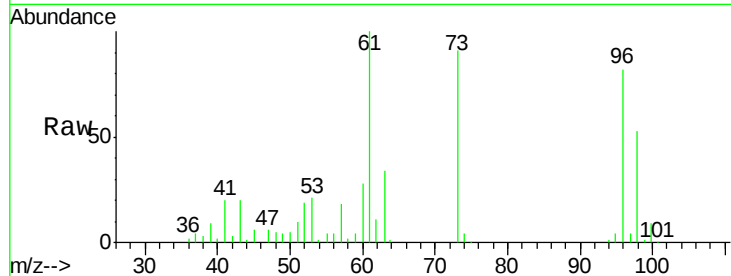
#21
trans-1,2-Dichloroethene
Concen: 49.440 ug/l
RT: 4.22 min Scan# 284
Delta R.T. 0.02 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 96 Resp: 397524
Ion Ratio Lower Upper
96 100
61 122.3 102.7 154.1
98 64.2 52.2 78.4

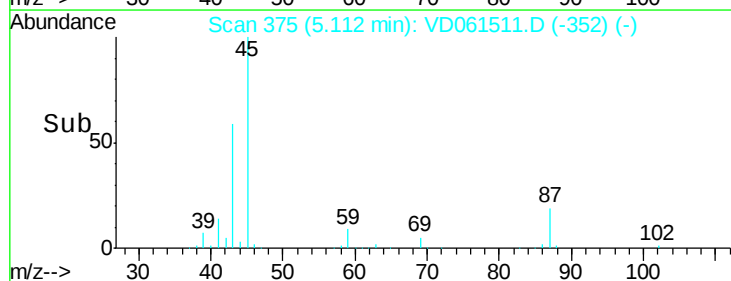
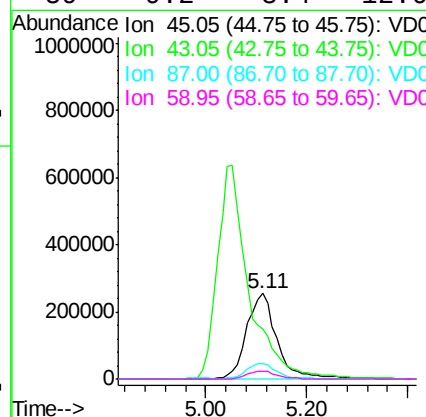
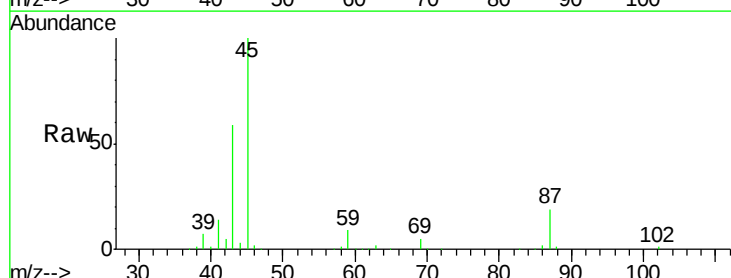
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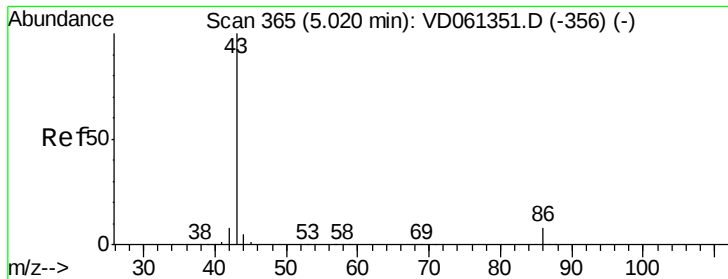
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#22
Diisopropyl ether
Concen: 47.824 ug/l
RT: 5.11 min Scan# 375
Delta R.T. 0.02 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion: 45 Resp: 1051252
Ion Ratio Lower Upper
45 100
43 59.2 47.4 71.2
87 18.7 16.3 24.5
59 9.2 8.4 12.6





#23

Vinyl Acetate

Concen: 228.443 ug/l

RT: 5.05 min Scan# 369

Delta R.T. 0.03 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tot Ion: 43 Resp: 2727660

Ion Ratio Lower Upper

43 100

86 7.3 6.7 10.1

Instrument :

MSVOA_D

ClientSampleId :

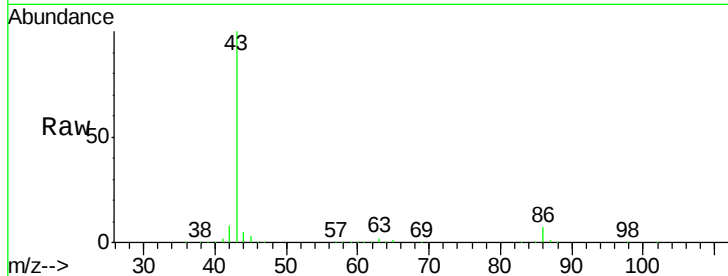
VSTDCCC050

Manual Integrations

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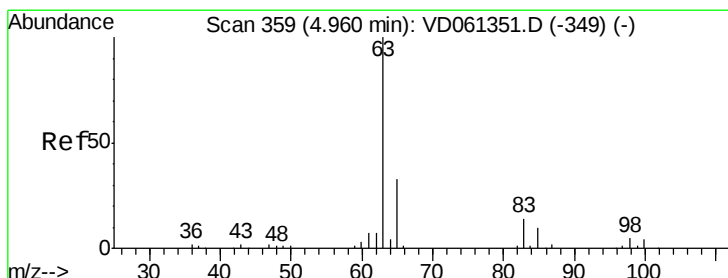
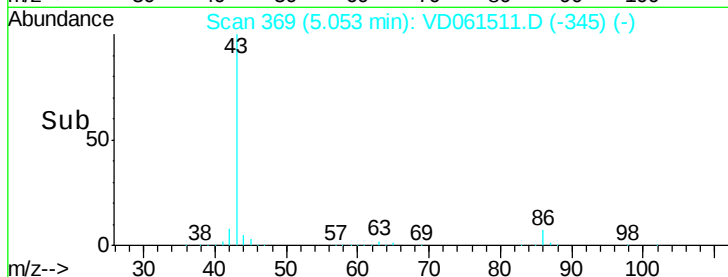
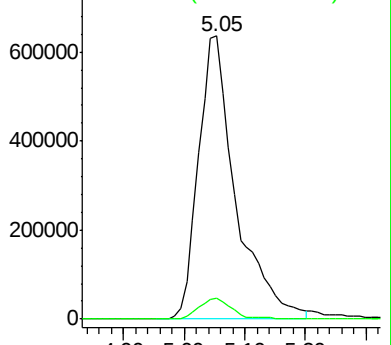
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.345 ug/l

RT: 4.97 min Scan# 361

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

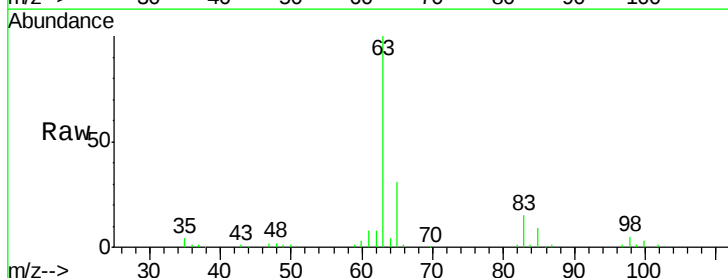
Tgt Ion: 63 Resp: 637449

Ion Ratio Lower Upper

63 100

98 5.3 2.6 8.0

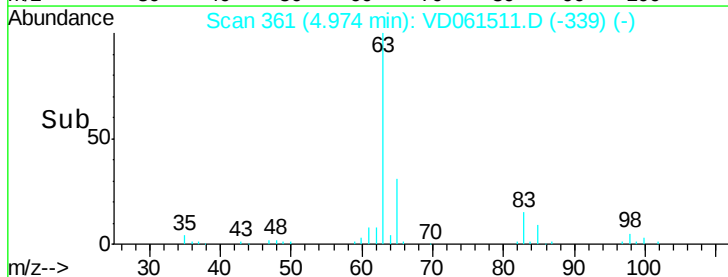
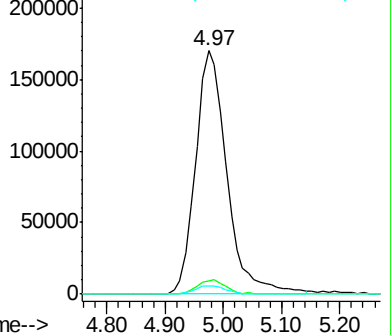
100 3.3 1.8 5.3

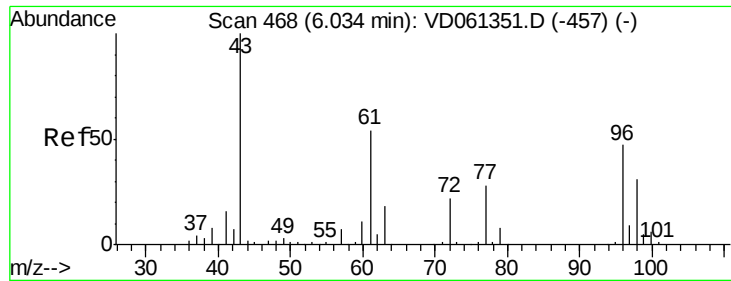


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 238.804 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tot Ion: 43 Resp: 457697

Ion Ratio Lower Upper

43 100

72 20.8 17.2 25.8

Instrument :

MSVOA_D

ClientSampleId :

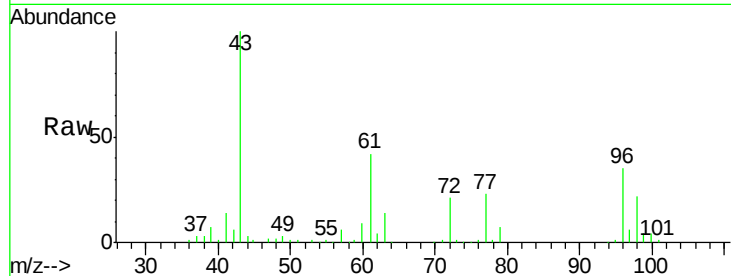
VSTDCCC050

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

100000

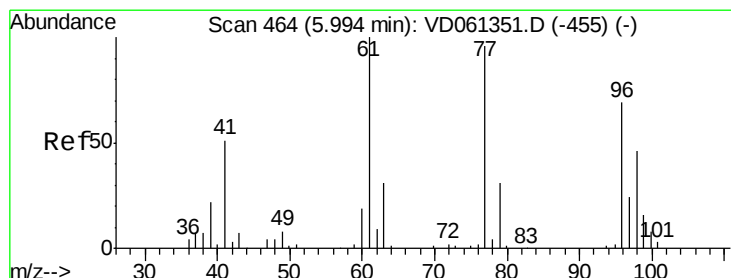
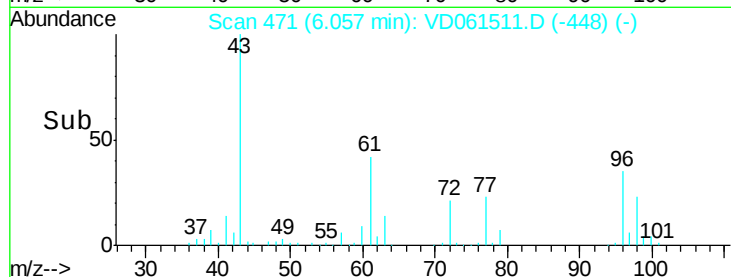
50000

0

6.06

6.10

Time-->



#26

2,2-Dichloropropane

Concen: 51.787 ug/l

RT: 6.02 min Scan# 467

Delta R.T. 0.02 min

Lab File: VD061511.D

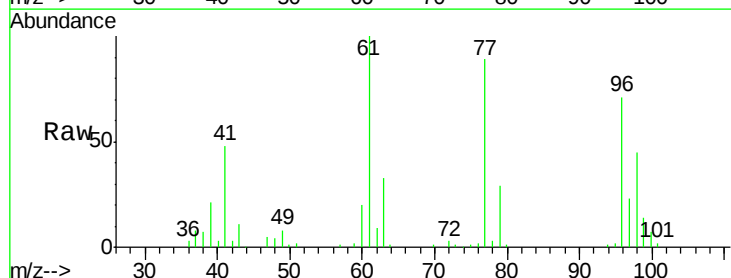
Acq: 2 Apr 2019 13:24

Tgt Ion: 77 Resp: 531816

Ion Ratio Lower Upper

77 100

97 25.6 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

150000

100000

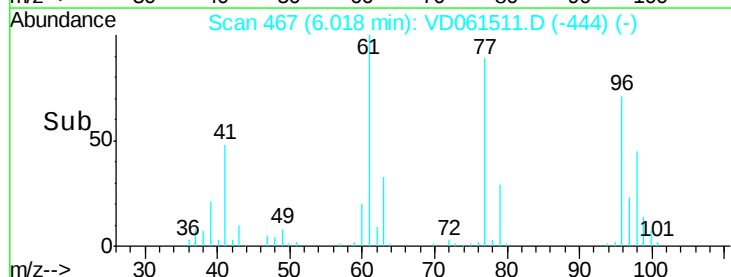
50000

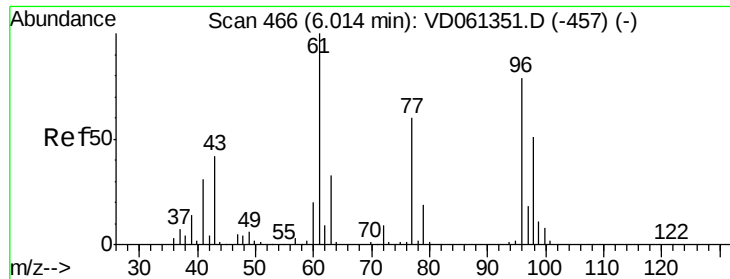
0

6.02

6.10

Time-->





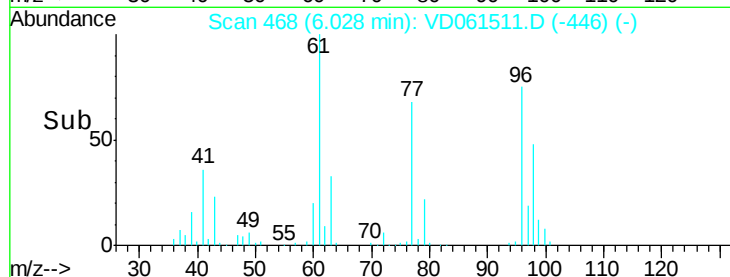
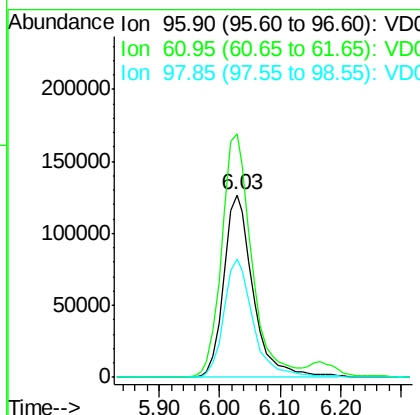
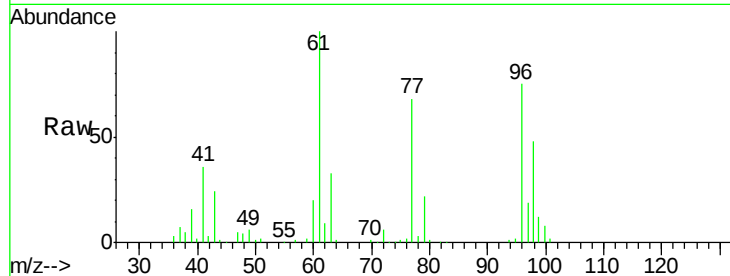
#27
 cis-1,2-Dichloroethene
 Concen: 48.281 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	425333		
61	133.6	0.0	251.6	
98	64.6	0.0	129.2	

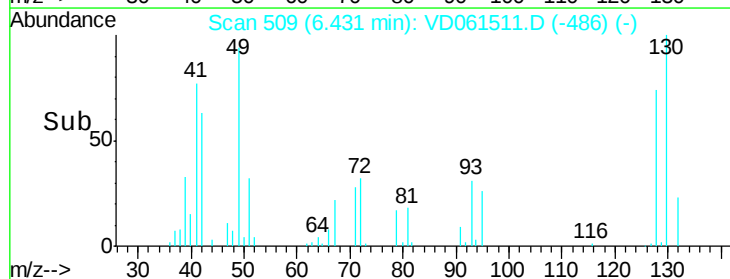
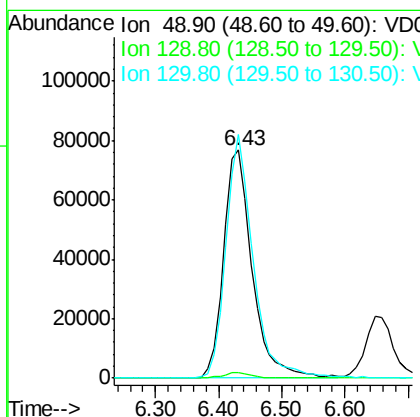
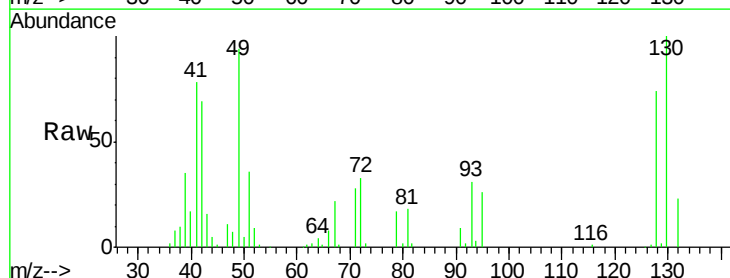
Manual Integrations
 APPROVED

MMDadoda
 4/3/2019 1:02:52 PM



#28
 Bromochloromethane
 Concen: 46.150 ug/l
 RT: 6.43 min Scan# 509
 Delta R.T. 0.02 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	240658		
129	2.3	0.0	0.0#	
130	106.9	78.4	117.6	





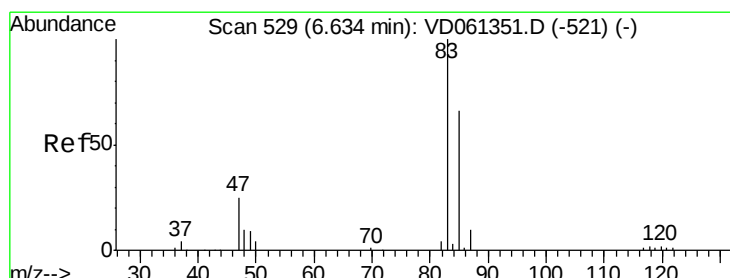
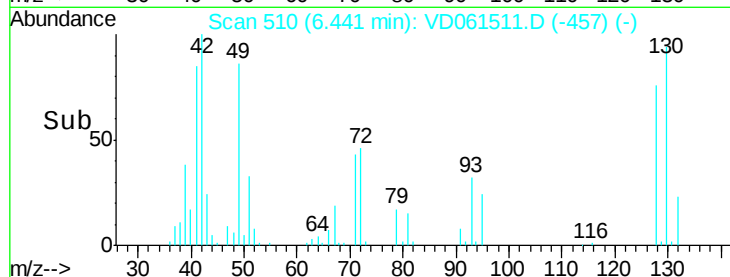
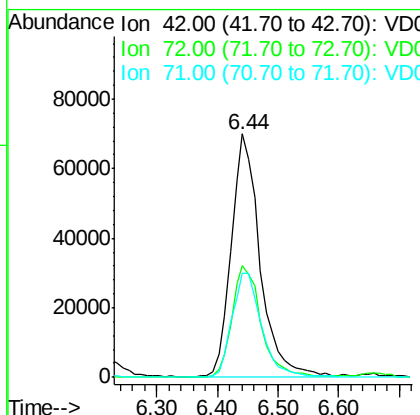
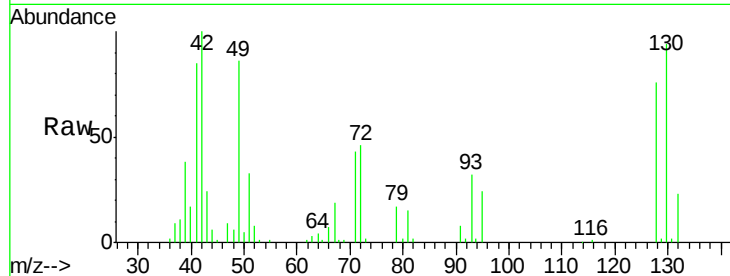
#29
Tetrahydrofuran
Concen: 250.404 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.02 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.4	56.0
71	43.9	36.7	55.1

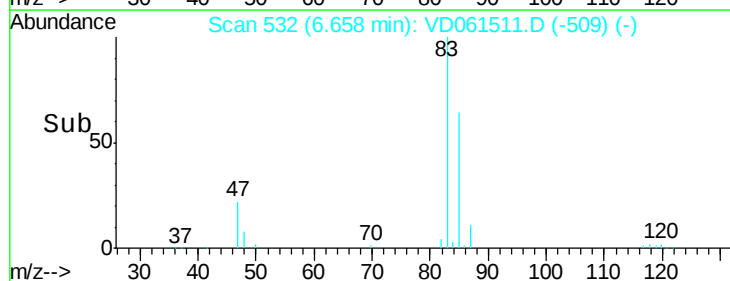
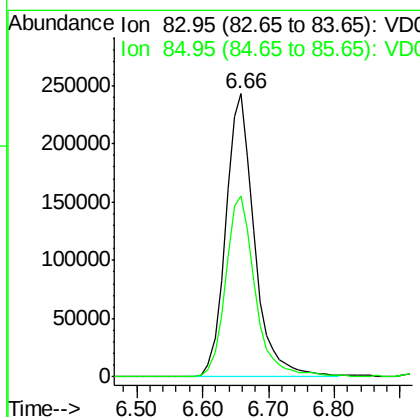
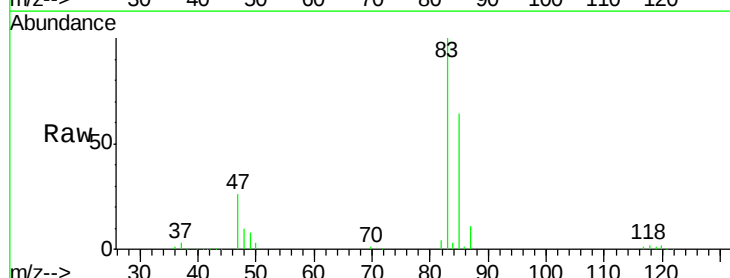
Manual Integrations
APPROVED

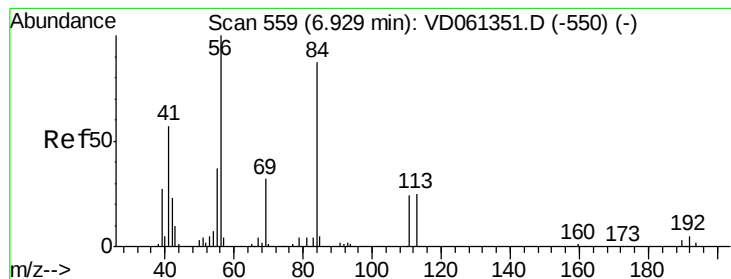
MMDadoda
4/3/2019 1:02:52 PM



#30
Chloroform
Concen: 55.376 ug/l
RT: 6.66 min Scan# 532
Delta R.T. 0.02 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.0	79.4





#31

Cyclohexane

Concen: 52.433 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

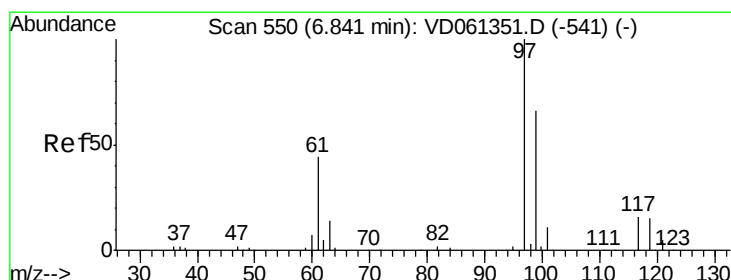
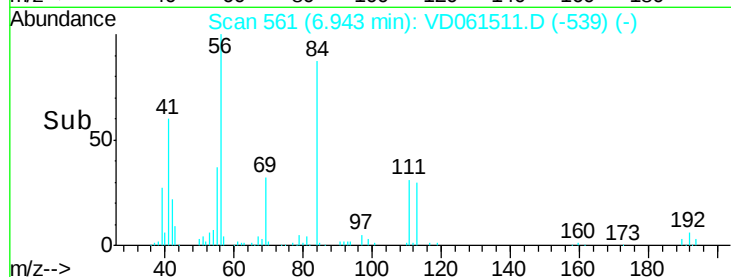
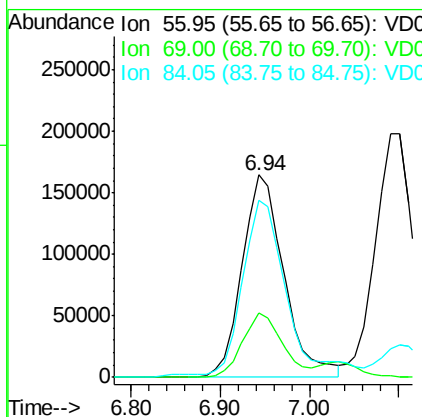
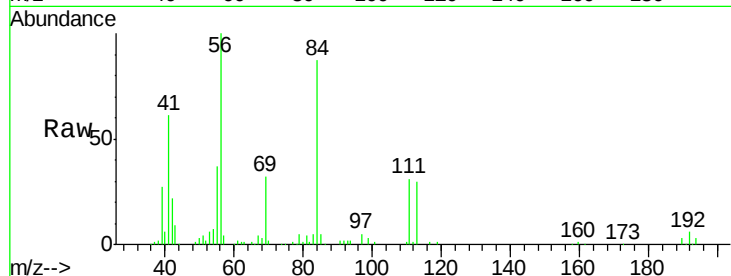
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	535266
Ion	Ratio	Lower	Upper
56	100		
69	31.8	25.7	38.5
84	87.5	70.6	105.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 54.554 ug/l

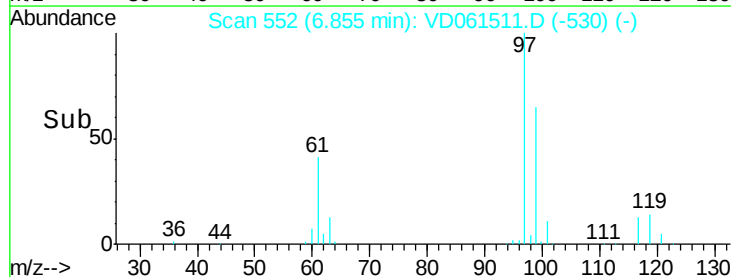
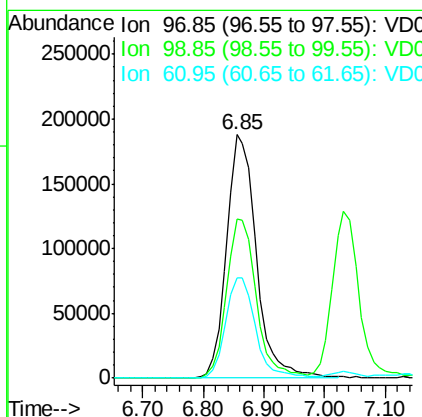
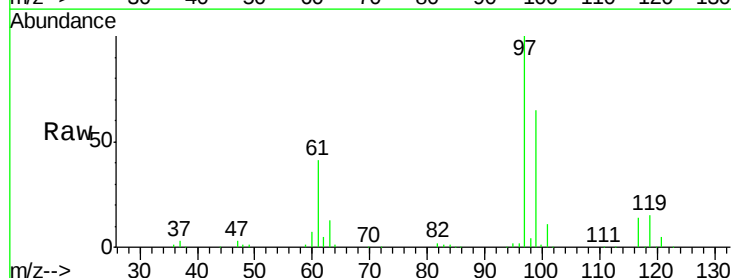
RT: 6.85 min Scan# 552

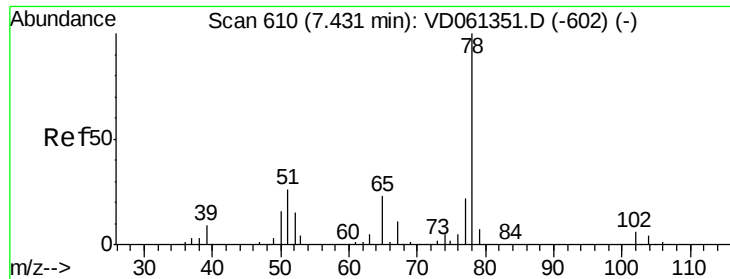
Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tgt Ion:	97	Resp:	642424
Ion	Ratio	Lower	Upper
97	100		
99	65.3	53.1	79.7
61	41.4	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 54.554 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tot Ion: 65 Resp: 284736

Ion Ratio Lower Upper

65 100

67 48.9 0.0 99.8

Instrument :

MSVOA_D

ClientSampleId :

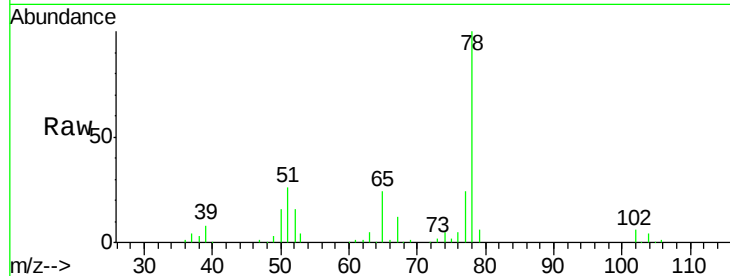
VSTDCCC050

Manual Integrations

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

100000

80000

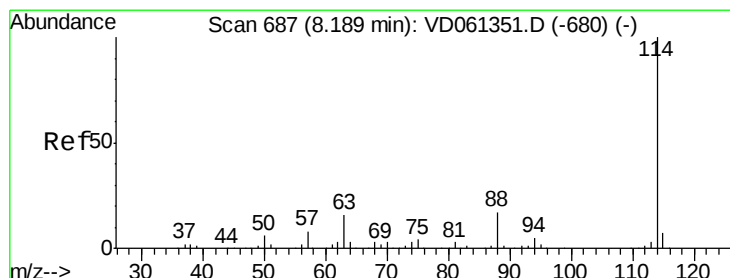
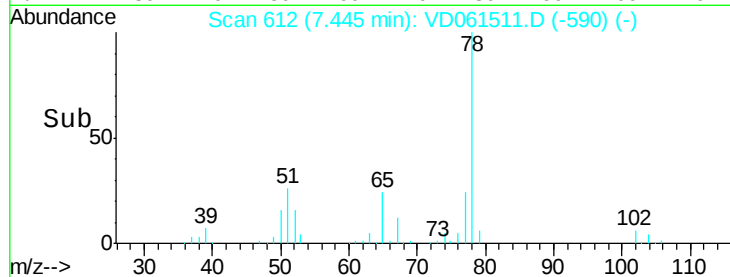
60000

40000

20000

0

Time--> 7.30 7.40 7.50



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.20 min Scan# 689

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

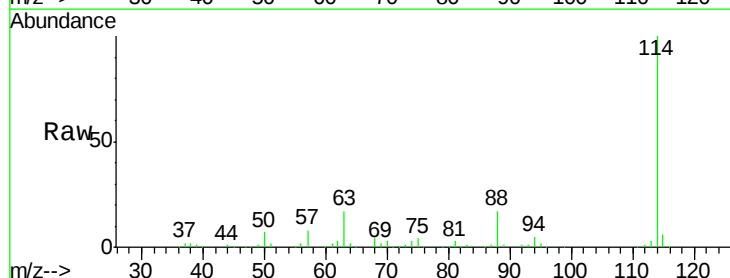
Tgt Ion:114 Resp: 1180712

Ion Ratio Lower Upper

114 100

63 17.4 0.0 31.6

88 17.3 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.20

600000

500000

400000

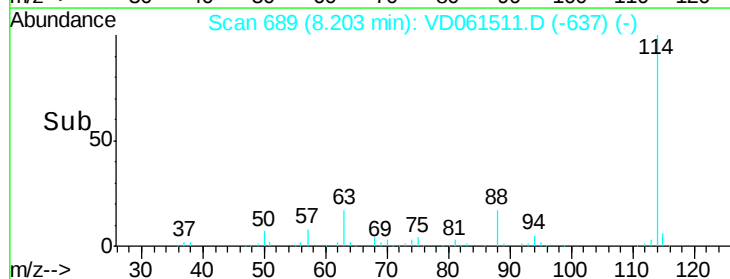
300000

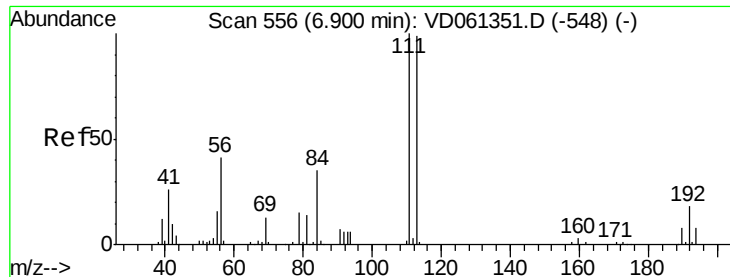
200000

100000

0

Time--> 8.00 8.20 8.40





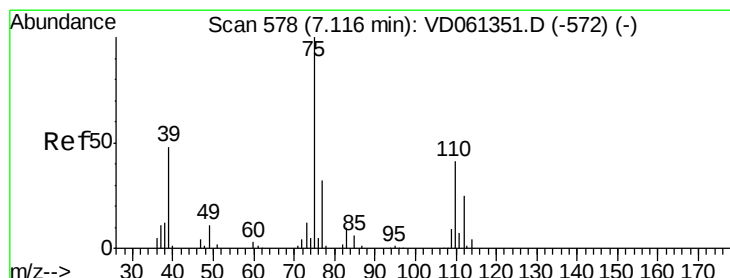
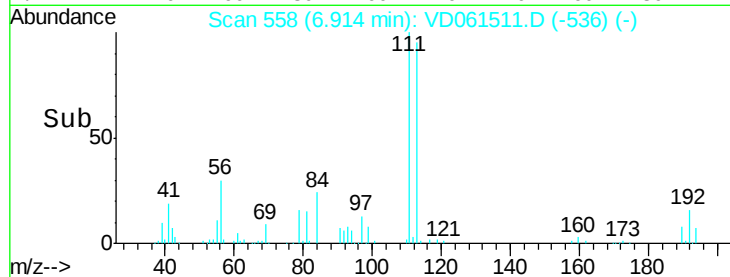
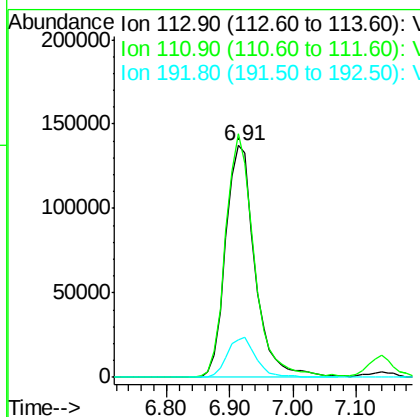
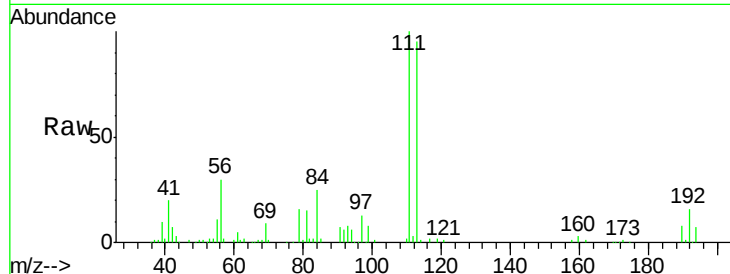
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	442203		
111	105.0	81.0	121.6	
192	16.3	14.4	21.6	

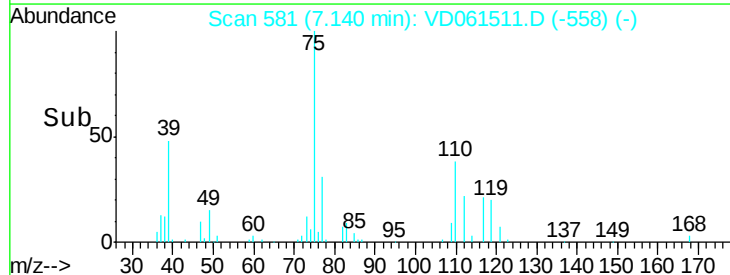
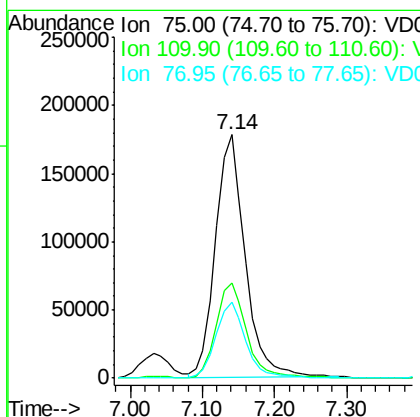
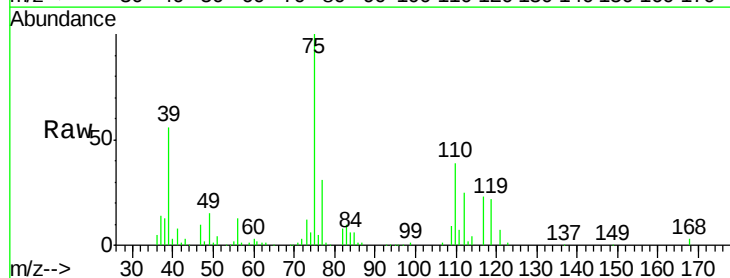
Manual Integrations
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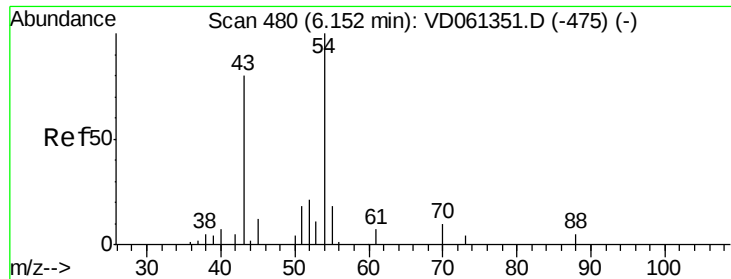
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 49.146 ug/l
 RT: 7.14 min Scan# 581
 Delta R.T. 0.02 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	506448		
110	39.2	20.4	61.3	
77	31.4	24.9	37.3	





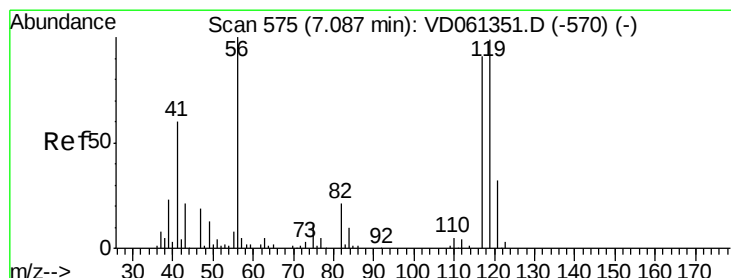
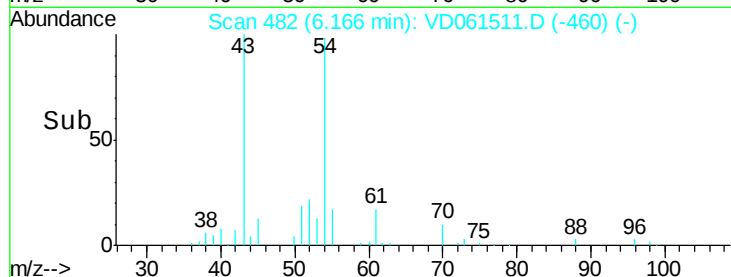
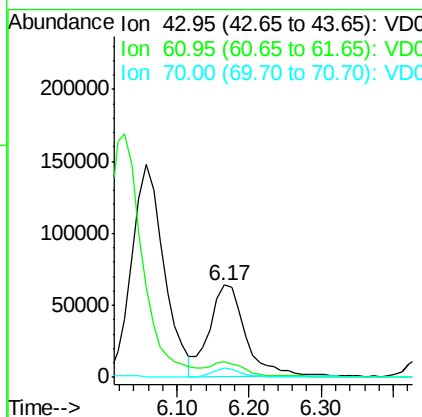
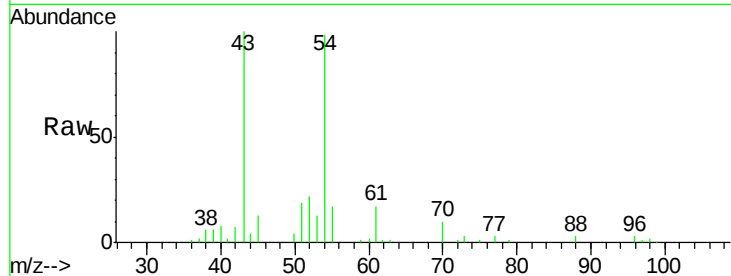
#37
Ethyl Acetate
Concen: 49.501 ug/l
RT: 6.17 min Scan# 482
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.0	13.8	20.8
70	9.8	7.8	11.8

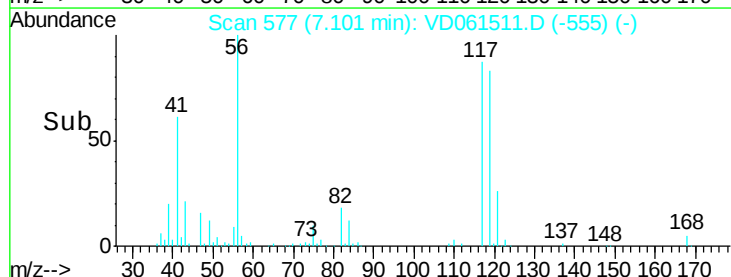
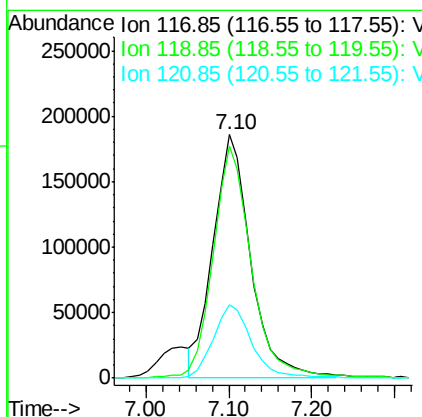
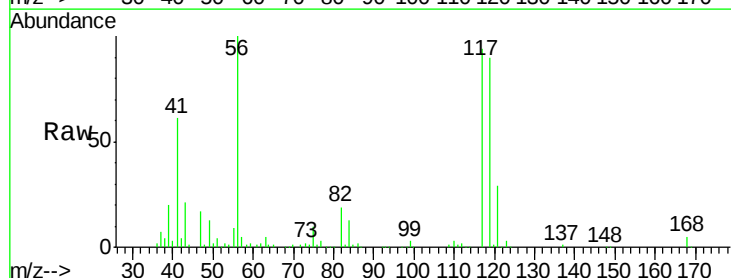
Manual Integrations
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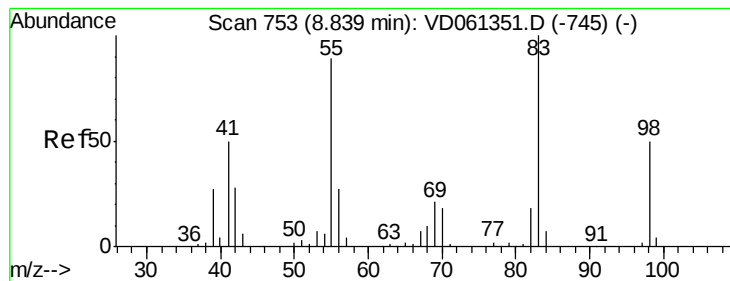
MMDadoda
4/3/2019 1:02:52 PM



#38
Carbon Tetrachloride
Concen: 49.680 ug/l m
RT: 7.10 min Scan# 577
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	80.1	120.1
121	30.3	25.6	38.4





#39

Methvlcvclohexane

Concen: 51.383 ug/l

RT: 8.85 min Scan# 755

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 551469

Ion Ratio Lower Upper

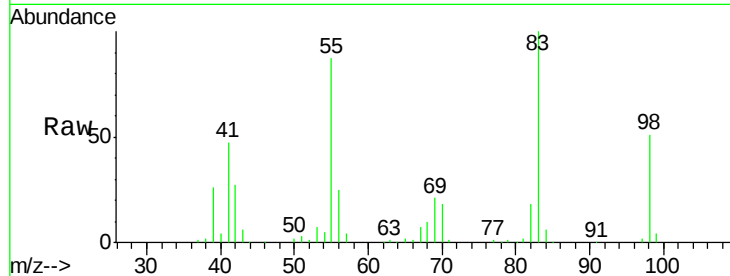
83 100

55 86.6 71.5 107.3

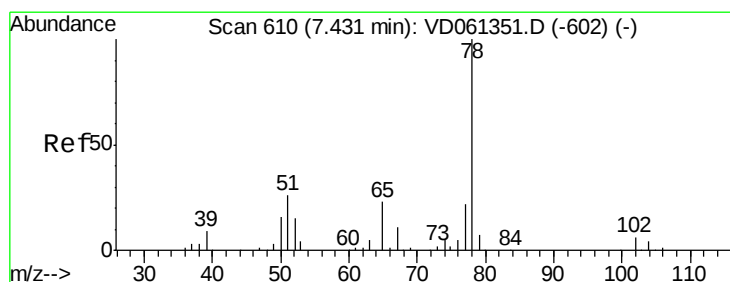
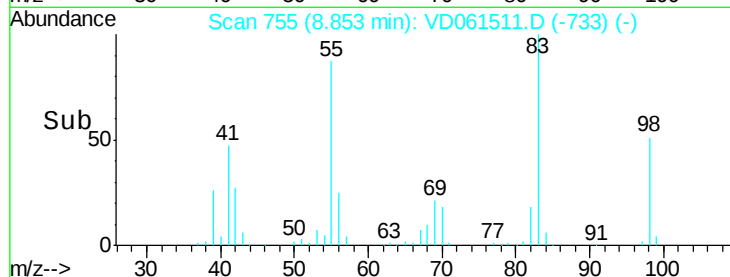
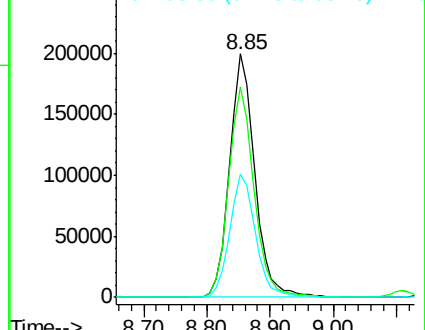
98 50.6 40.3 60.5

Manual Integrations
APPROVED

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



#40

Benzene

Concen: 48.138 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061511.D

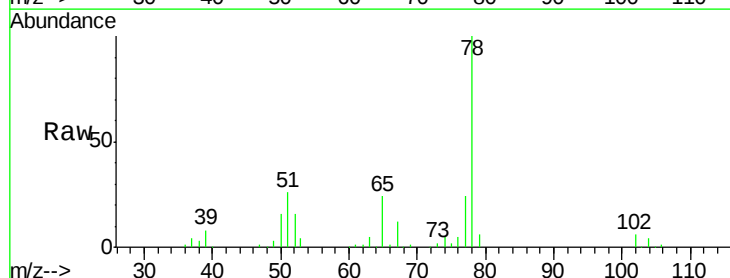
Acq: 2 Apr 2019 13:24

Tgt Ion: 78 Resp: 1244973

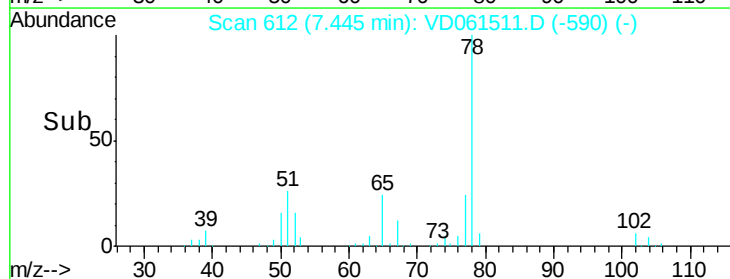
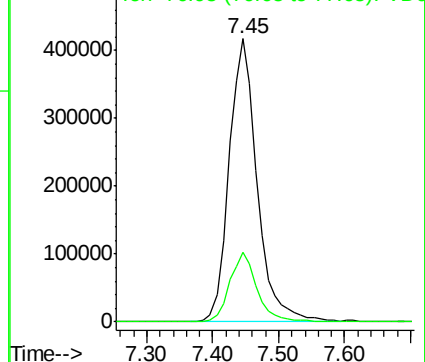
Ion Ratio Lower Upper

78 100

77 24.4 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





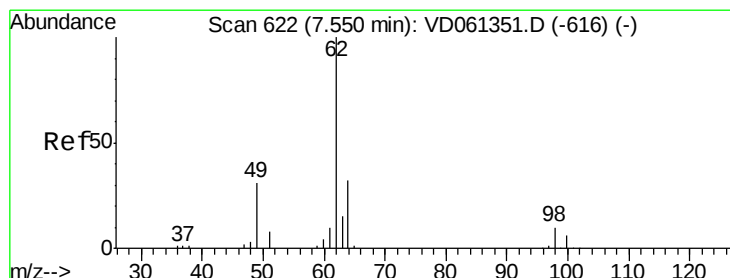
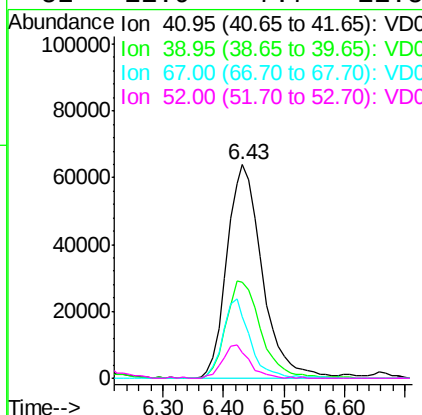
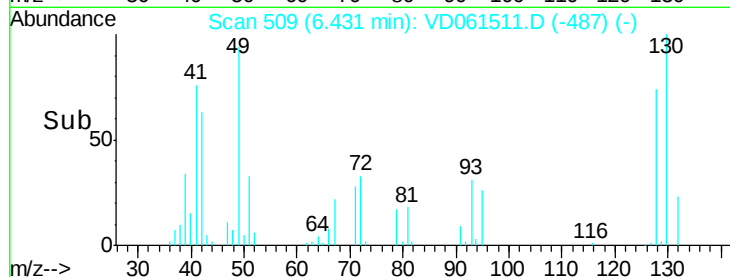
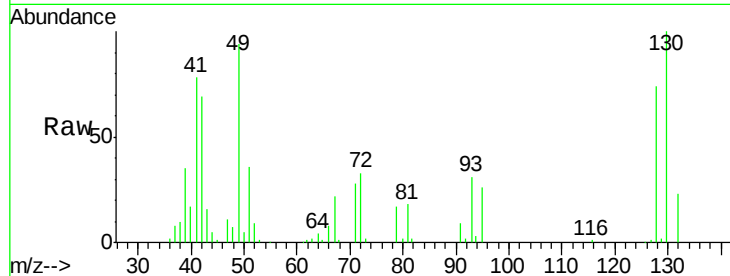
#41
Methacrylonitrile
Concen: 50.240 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	45.2	35.0	52.6
67	28.7	21.0	31.6
52	11.9	7.7	11.5

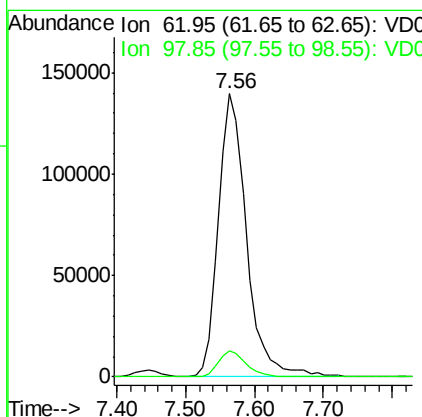
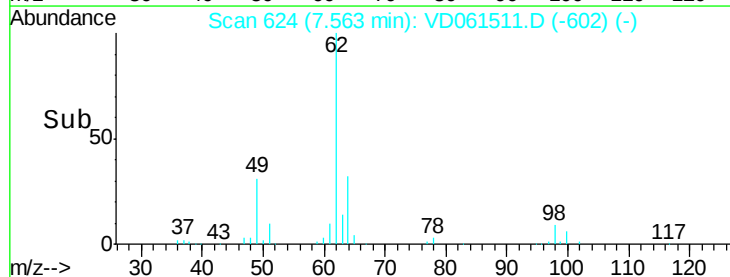
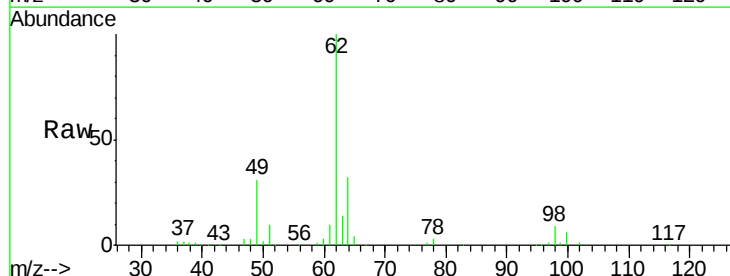
Manual Integrations
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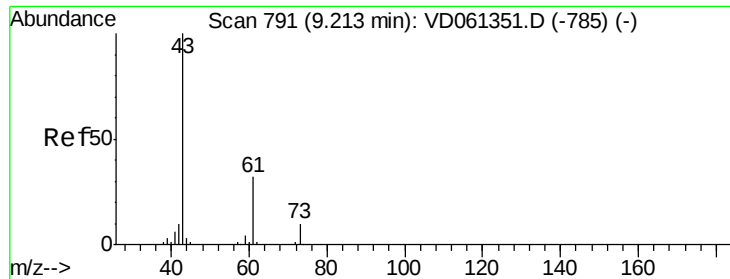
MMDadoda
4/3/2019 1:02:52 PM



#42
1,2-Dichloroethane
Concen: 51.265 ug/l
RT: 7.56 min Scan# 624
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.8





#43

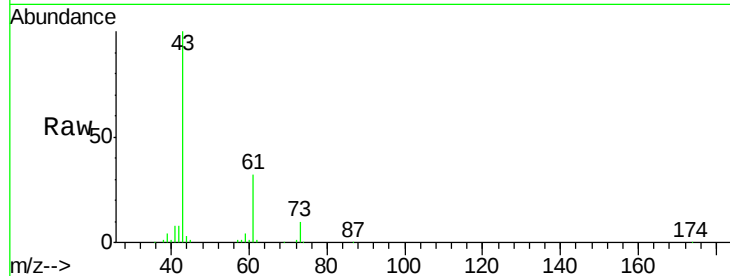
Isopropyl Acetate
 Concen: 51.469 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

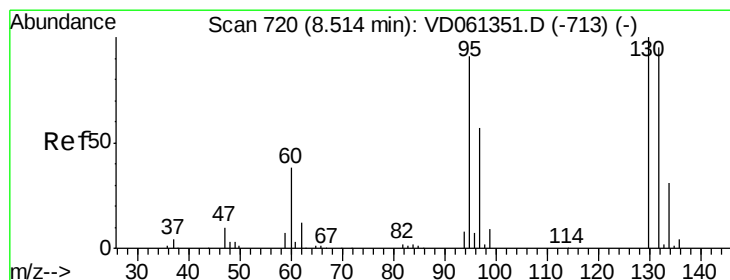
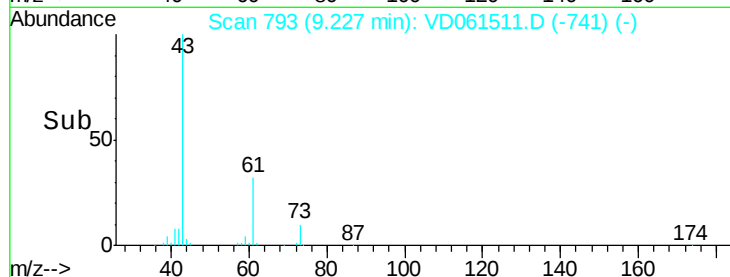
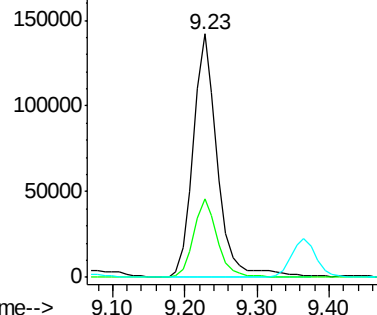
Tot Ion	Ratio	Lower	Upper
43	100		
61	32.2	25.8	38.6
87	0.4	0.0	0.0

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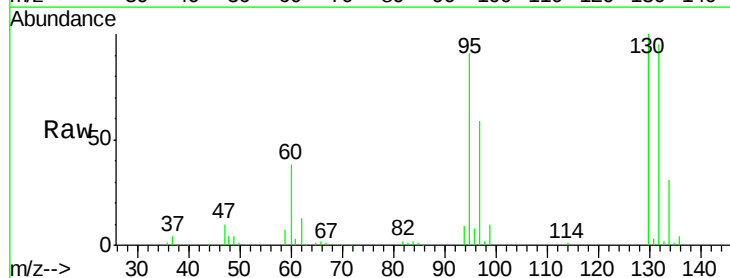
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



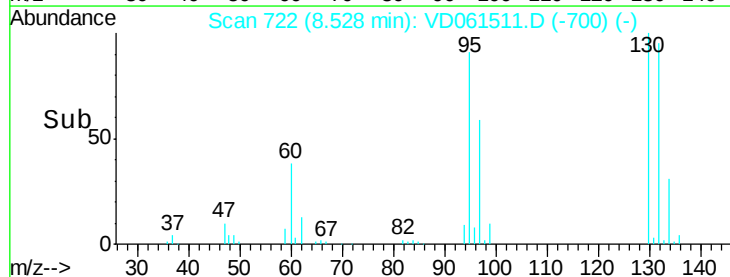
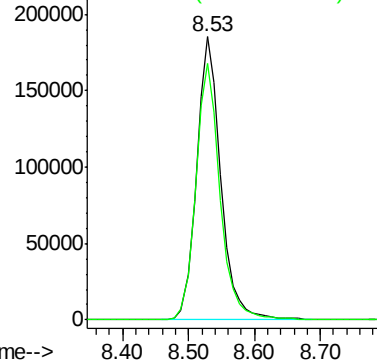
#44

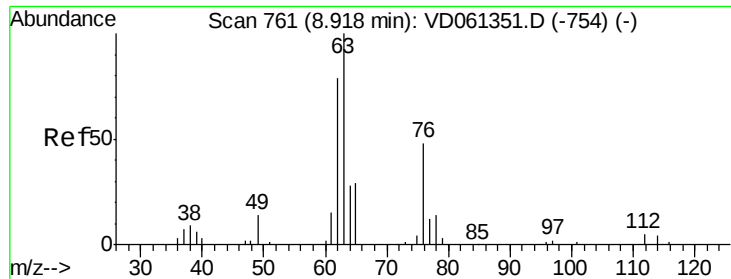
Trichloroethene
 Concen: 49.262 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.6	0.0	181.4



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





#45

1,2-Dichloropropane

Concen: 54.182 ug/l

RT: 8.93 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 355323

Ion Ratio Lower Upper

63 100

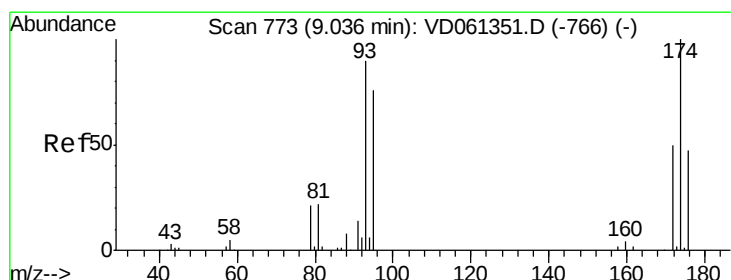
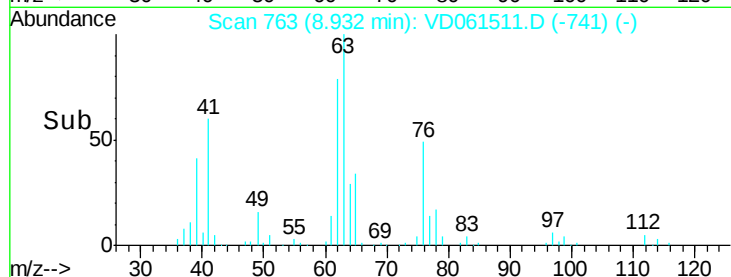
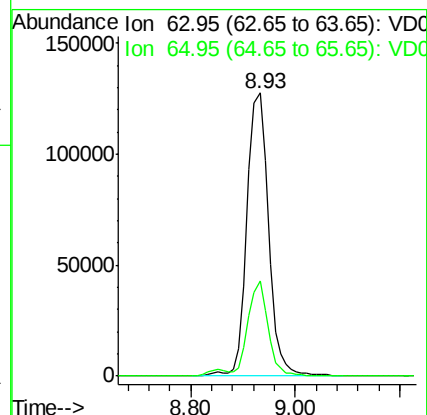
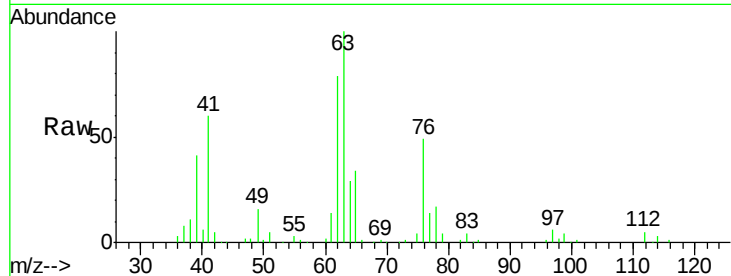
65 33.7 25.0 37.4

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#46

Dibromomethane

Concen: 50.623 ug/l

RT: 9.05 min Scan# 775

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

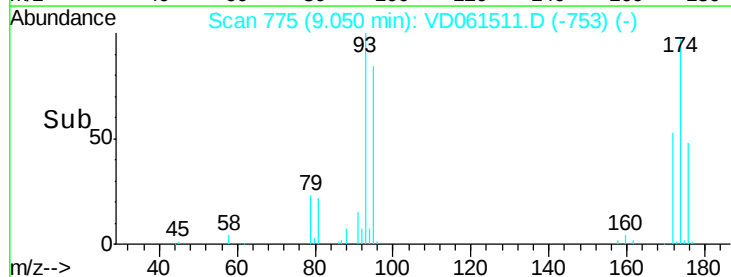
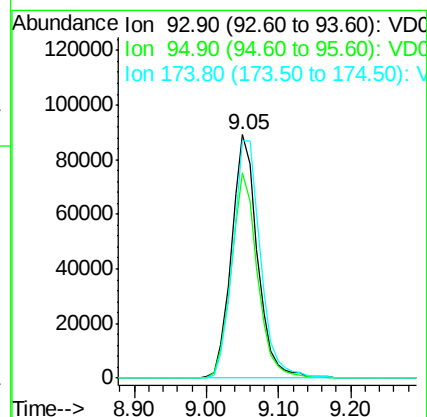
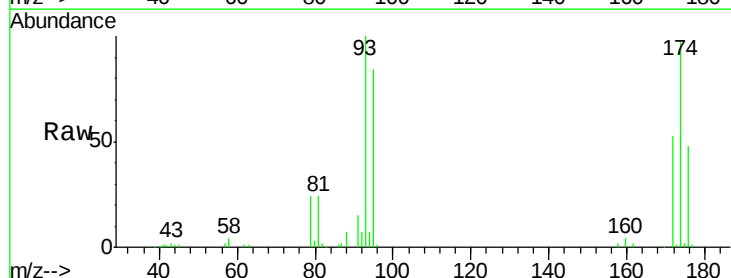
Tgt Ion: 93 Resp: 223451

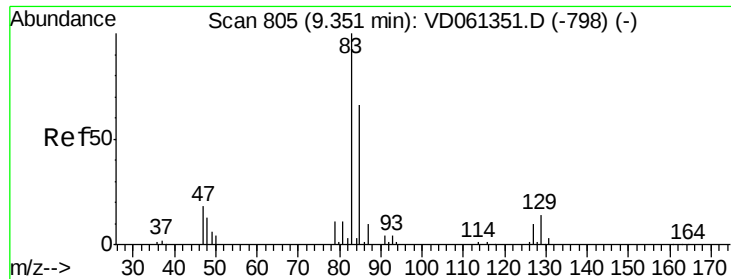
Ion Ratio Lower Upper

93 100

95 84.4 67.4 101.0

174 97.4 88.9 133.3





#47

Bromodichloromethane

Concen: 55.955 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

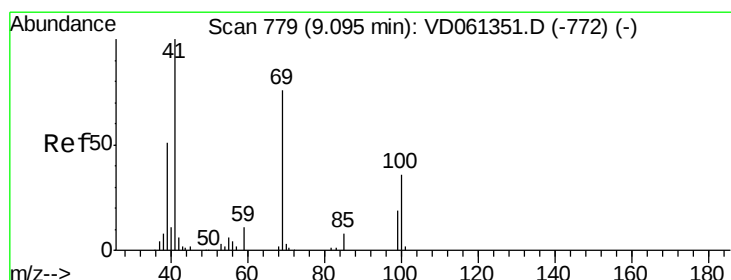
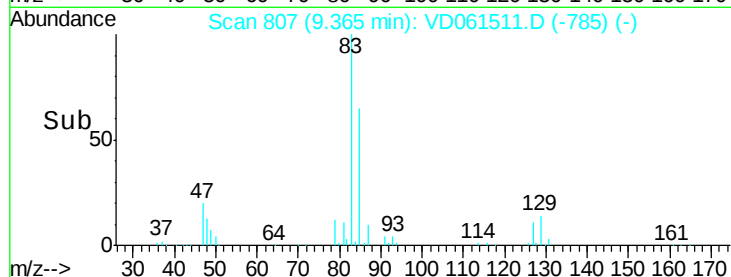
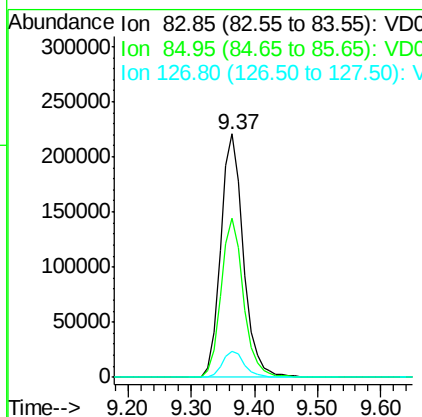
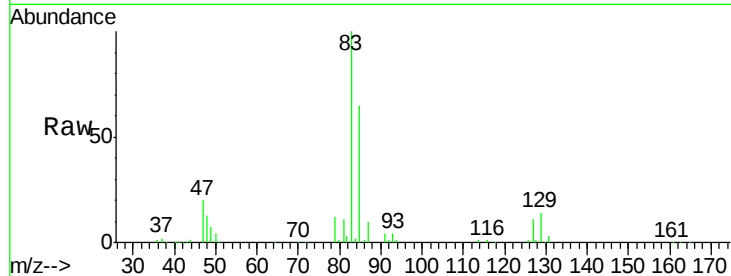
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	554352
Ion Ratio	Lower	Upper	
83	100		
85	65.5	53.0	79.4
127	10.5	8.4	12.6

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#48

Methyl methacrylate

Concen: 53.071 ug/l

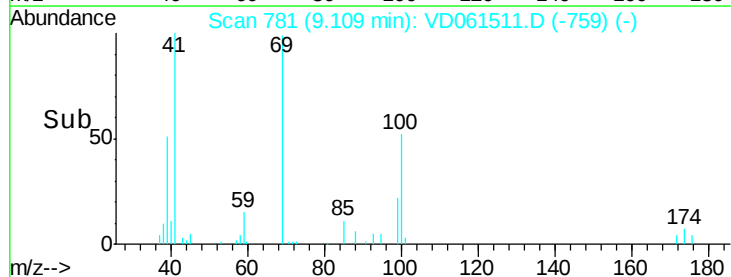
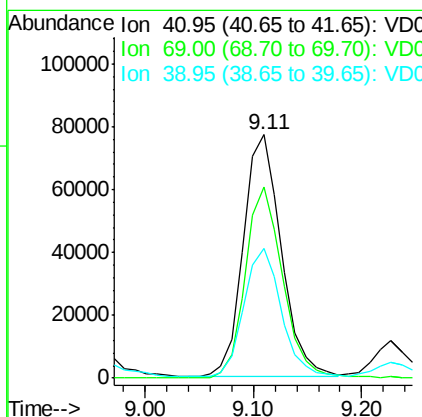
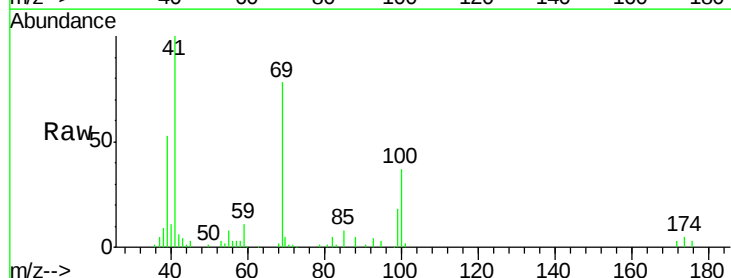
RT: 9.11 min Scan# 781

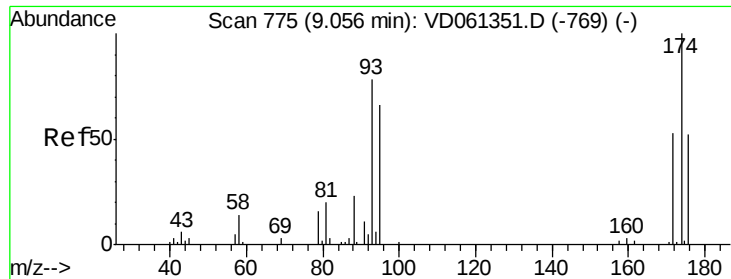
Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tgt Ion:	41	Resp:	187814
Ion Ratio	Lower	Upper	
41	100		
69	78.4	60.2	90.4
39	53.3	41.4	62.2





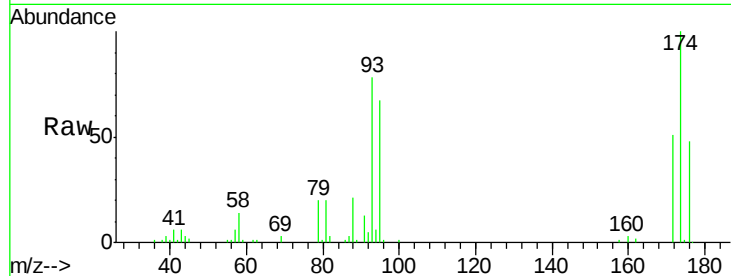
#49
1,4-Dioxane
Concen: 1039.969 ug/l
RT: 9.07 min Scan# 777
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

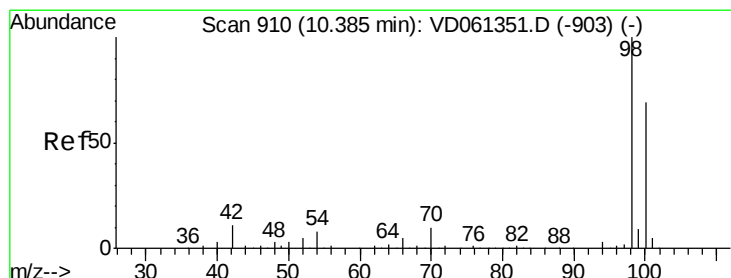
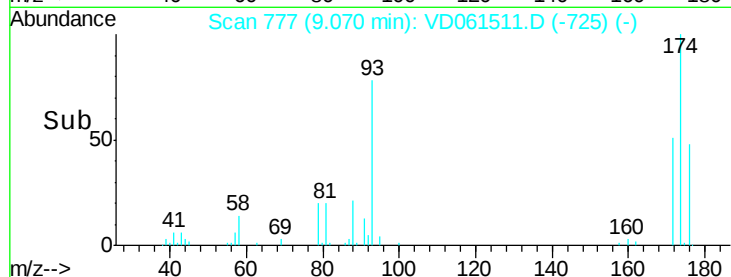
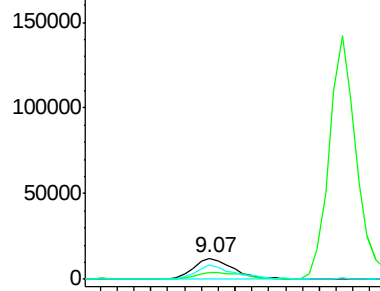
Tot Ion	Ratio	Lower	Upper
88	100		
43	29.3	23.3	34.9
58	67.3	50.8	76.2

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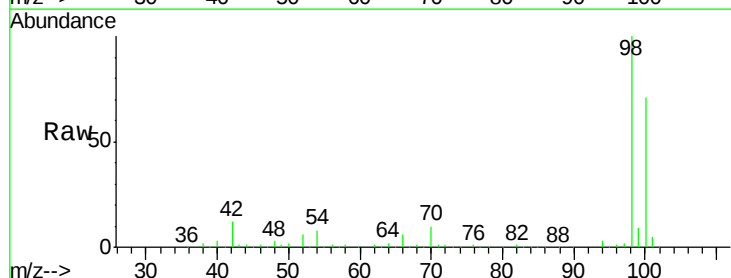


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

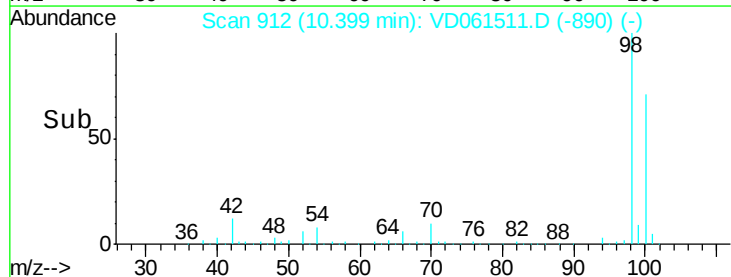
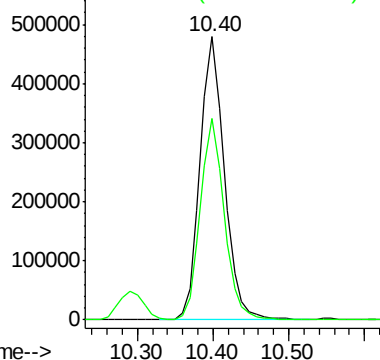


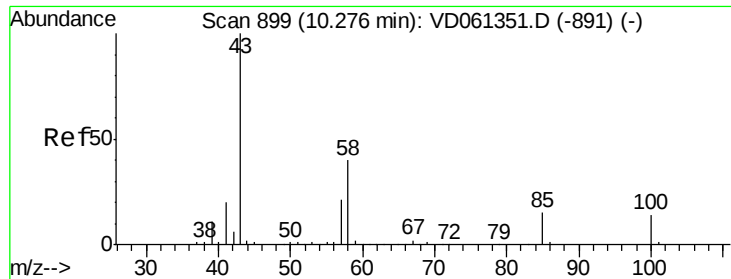
#50
Toluene-d8
Concen: 1039.969 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.4	56.2	84.2



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 234.942 ug/l

RT: 10.29 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 916563

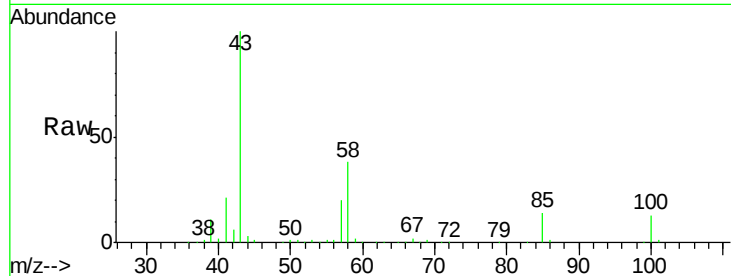
Ion Ratio Lower Upper

43 100

58 38.4 31.8 47.8

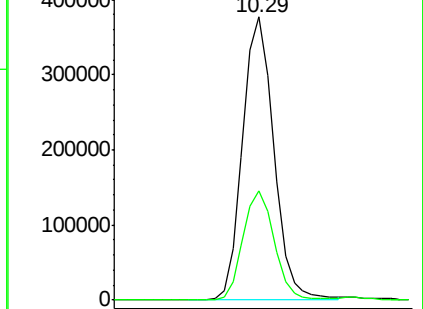
Manual Integrations
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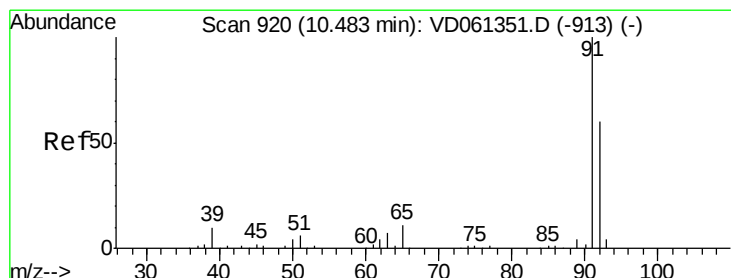
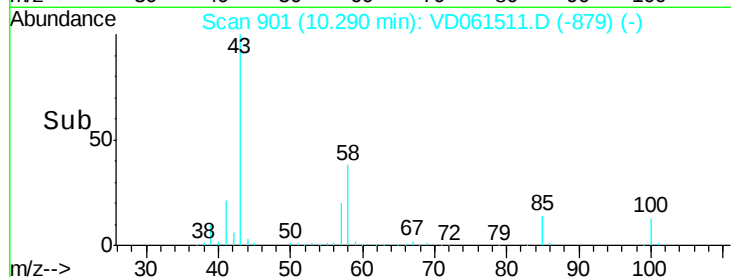


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#52

Toluene

Concen: 52.821 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD061511.D

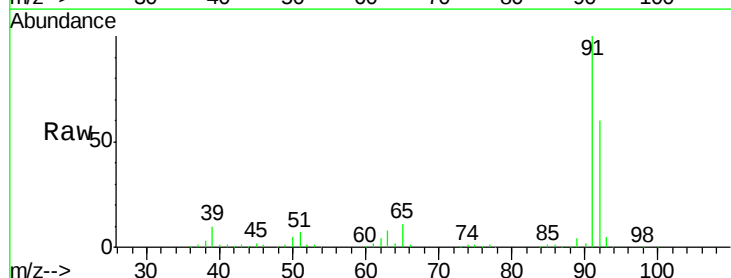
Acq: 2 Apr 2019 13:24

Tgt Ion: 92 Resp: 833411

Ion Ratio Lower Upper

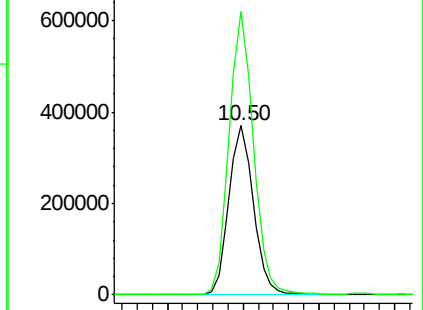
92 100

91 167.6 133.3 199.9

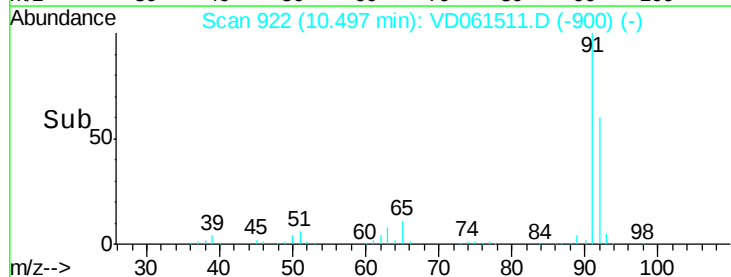


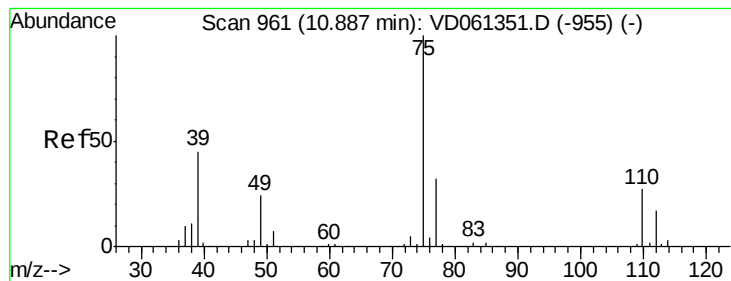
Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



Time-->





#53

t-1,3-Dichloropropene

Concen: 52.294 ug/l

RT: 10.90 min Scan# 963

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tot Ion: 75 Resp: 470702

Ion Ratio Lower Upper

75 100

77 32.8 25.4 38.2

Instrument :

MSVOA_D

ClientSampleId :

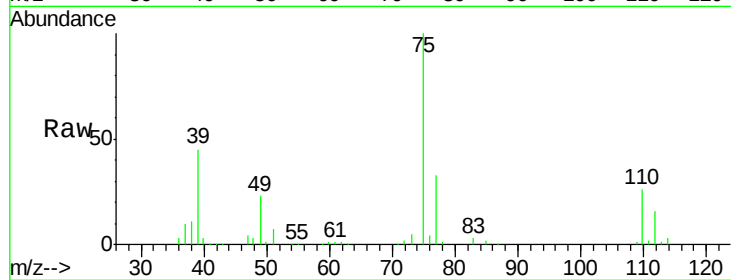
VSTDCCC050

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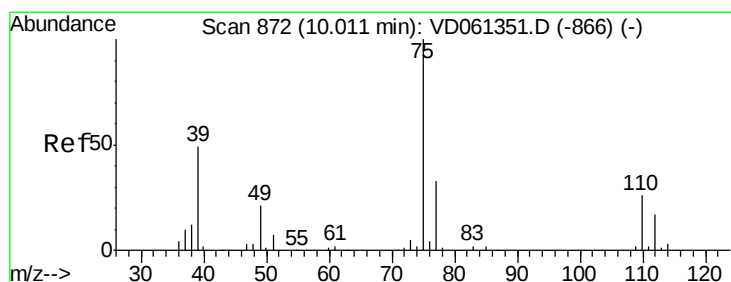
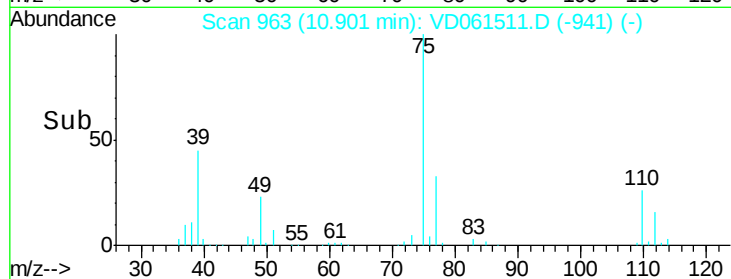
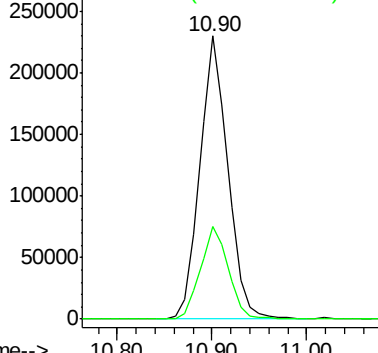
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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 50.195 ug/l

RT: 10.02 min Scan# 874

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

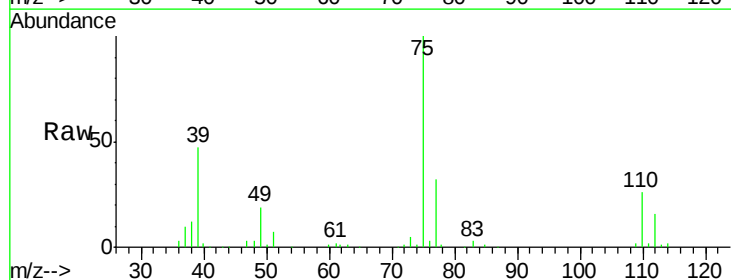
Tgt Ion: 75 Resp: 550150

Ion Ratio Lower Upper

75 100

77 32.2 26.2 39.4

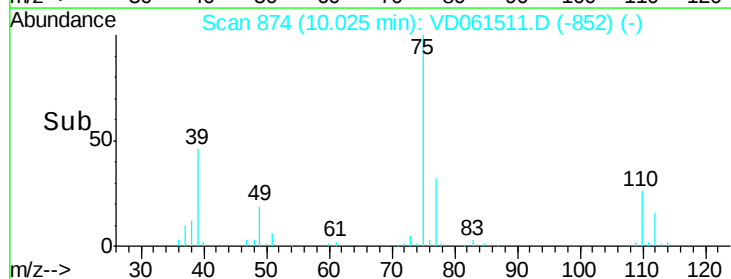
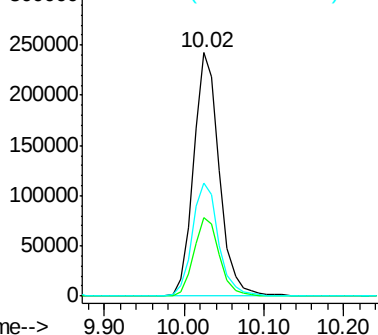
39 46.5 39.4 59.0

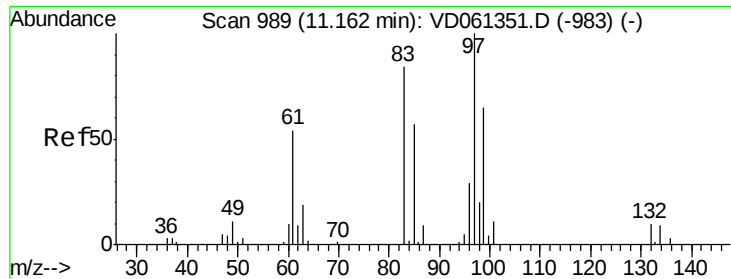


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





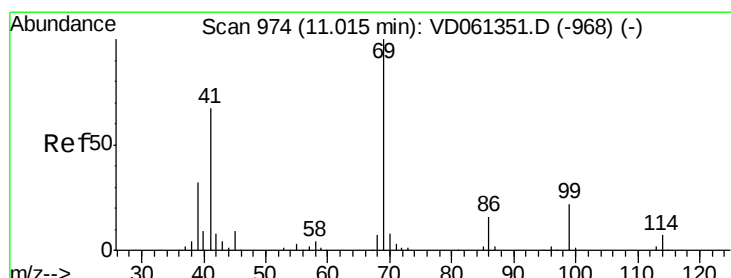
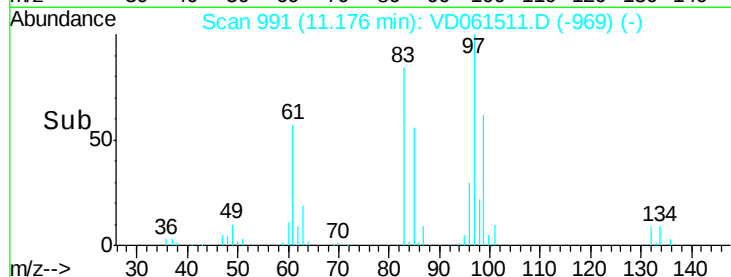
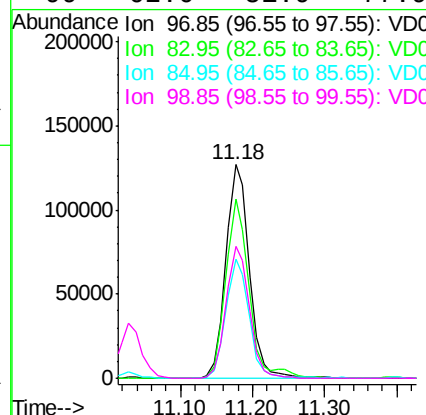
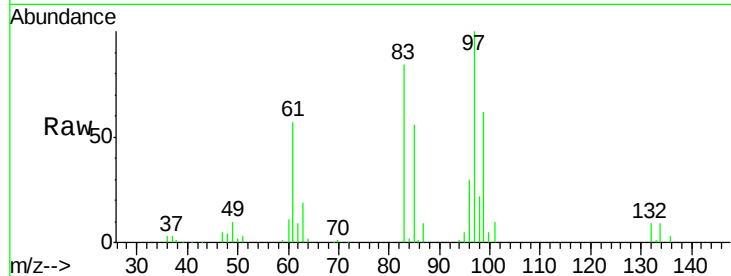
#55
 1,1,2-Trichloroethane
 Concen: 51.551 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	284455
Ion	Ratio	Lower	Upper
97	100		
83	84.0	67.0	100.6
85	56.0	45.4	68.2
99	62.0	51.9	77.9

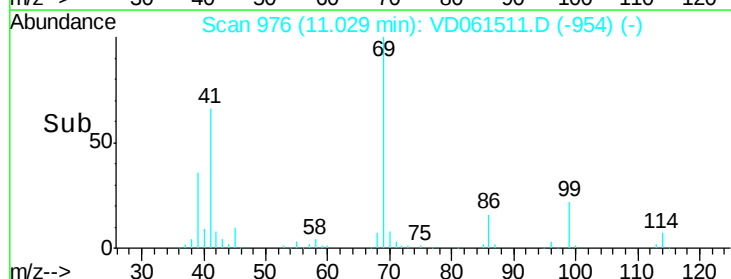
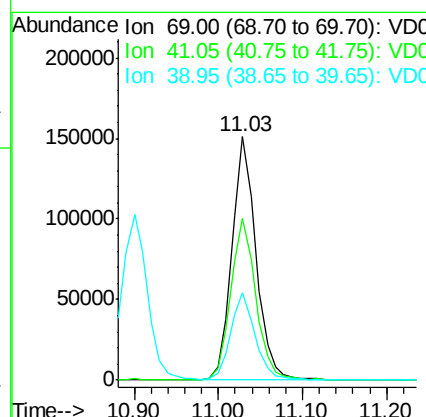
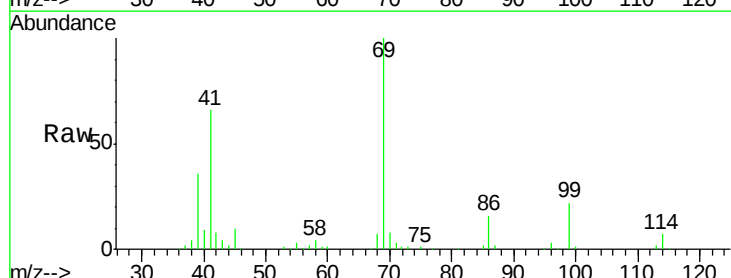
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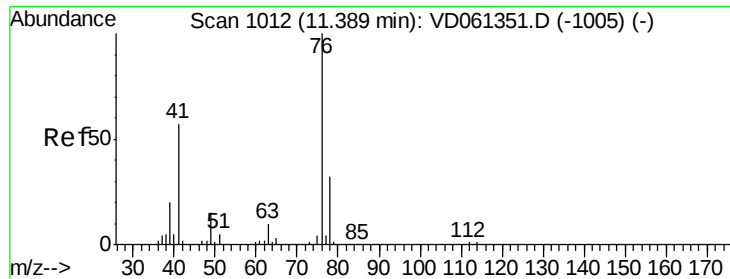
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#56
 Ethyl methacrylate
 Concen: 50.645 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion:	69	Resp:	300215
Ion	Ratio	Lower	Upper
69	100		
41	66.3	53.8	80.6
39	35.7	26.4	39.6





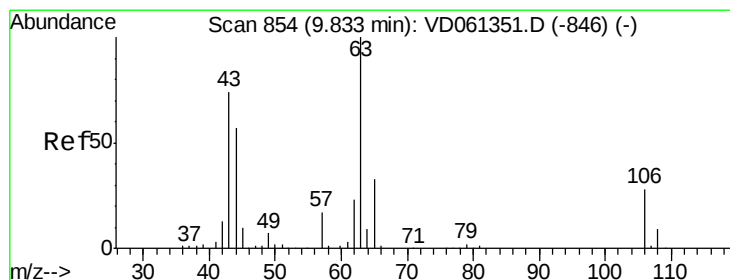
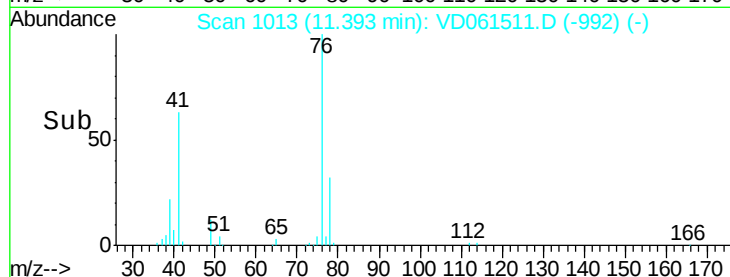
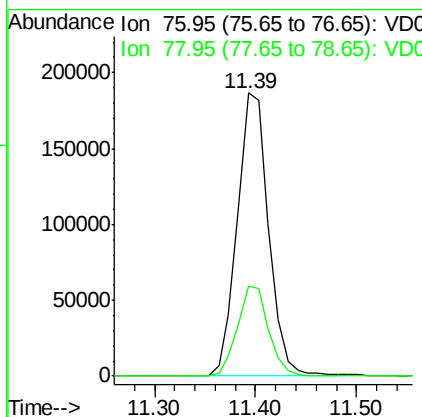
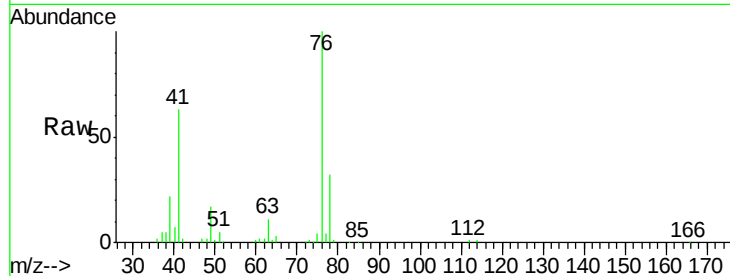
#57
 1,3-Dichloropropane
 Concen: 49.820 ug/l
 RT: 11.39 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 404057
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.4 38.0

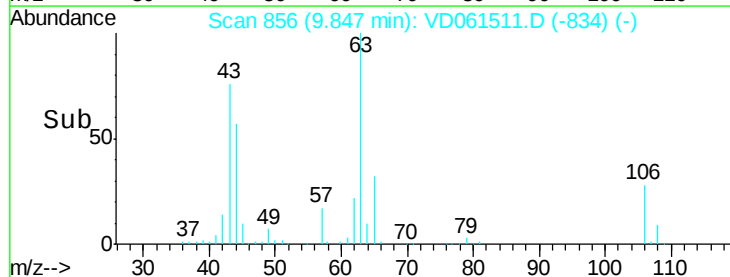
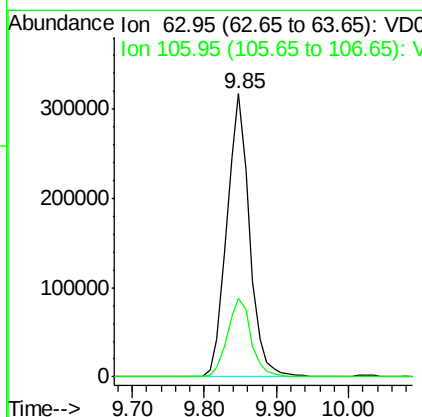
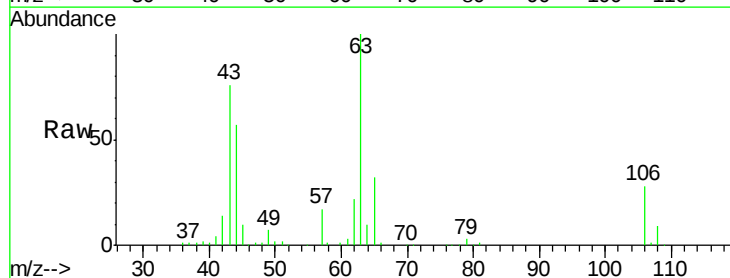
Manual Integrations
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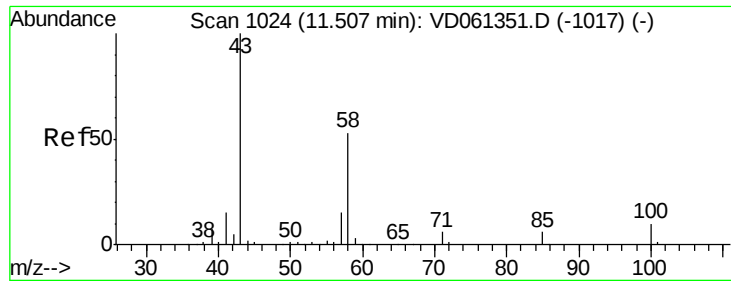
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#58
 2-Chloroethyl Vinyl ether
 Concen: 239.996 ug/l
 RT: 9.85 min Scan# 856
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion: 63 Resp: 692819
 Ion Ratio Lower Upper
 63 100
 106 27.9 22.4 33.6





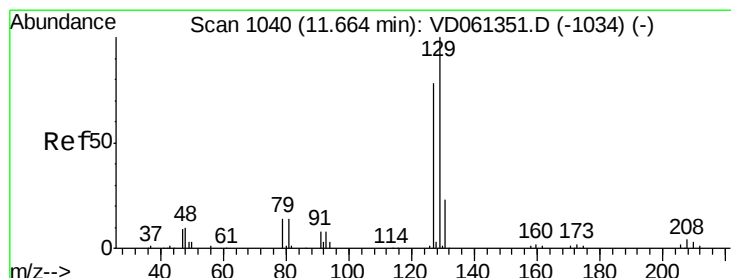
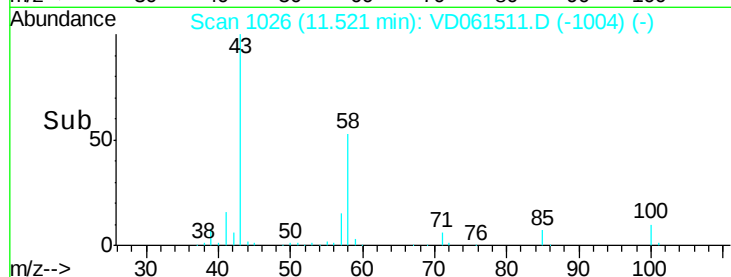
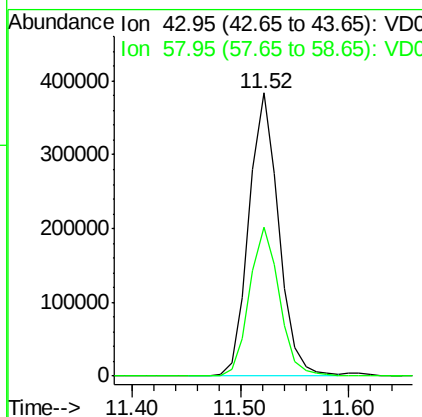
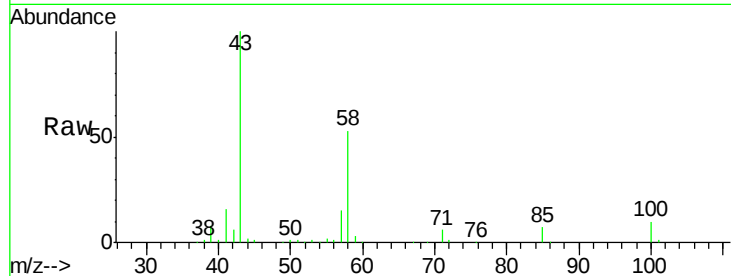
#59
2-Hexanone
Concen: 261.010 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 737761
Ion Ratio Lower Upper
43 100
58 52.8 26.3 78.9

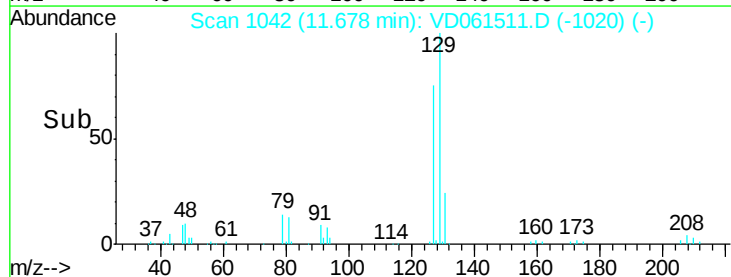
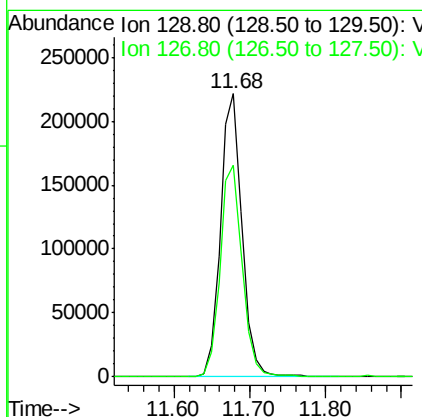
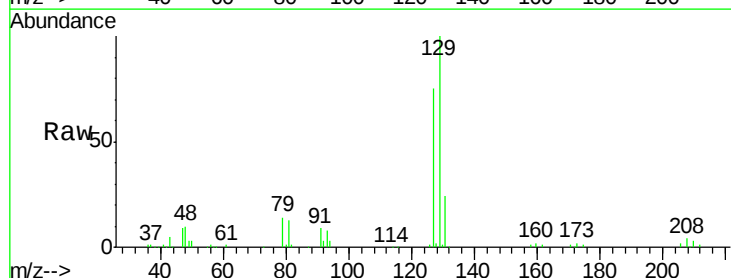
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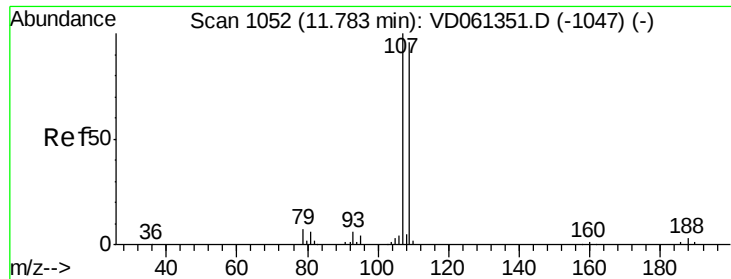
MMDadoda
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#60
Dibromochloromethane
Concen: 51.384 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion: 129 Resp: 437099
Ion Ratio Lower Upper
129 100
127 74.7 39.0 116.9





#61

1,2-Dibromoethane

Concen: 51.369 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 328226

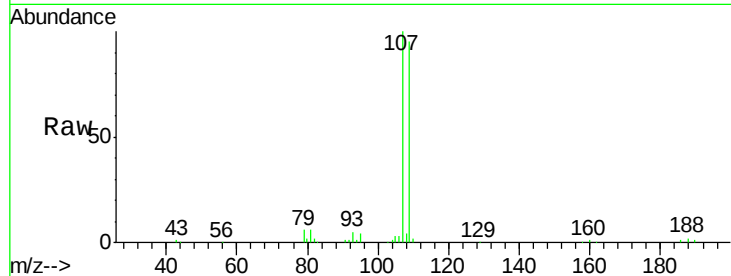
Ion Ratio Lower Upper

107 100

109 95.1 76.6 114.8

Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.80

200000

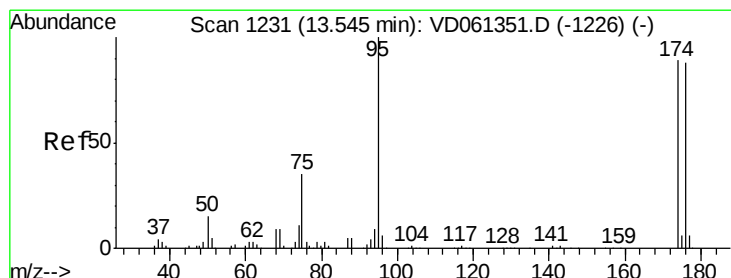
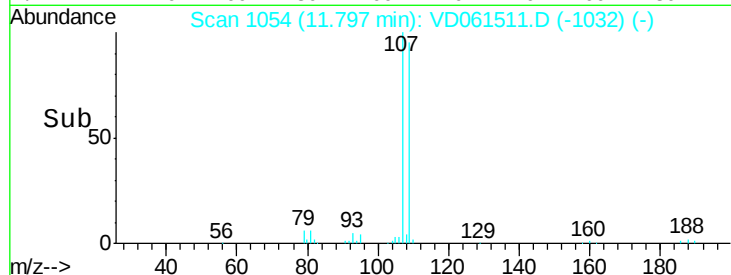
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 51.369 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

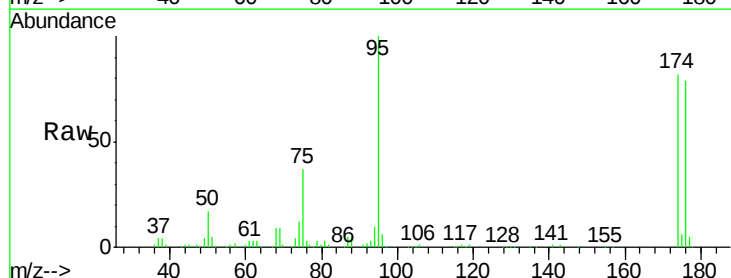
Tgt Ion: 95 Resp: 408153

Ion Ratio Lower Upper

95 100

174 81.5 0.0 178.0

176 79.2 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.55

400000

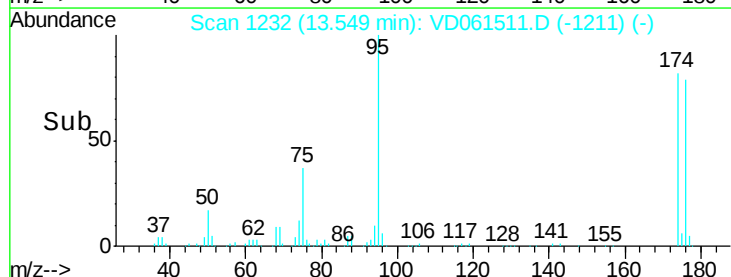
300000

200000

100000

0

Time-->





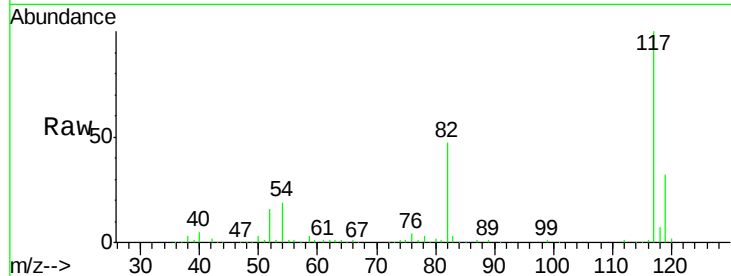
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	46.8	34.4	51.6
119	31.8	25.8	38.6

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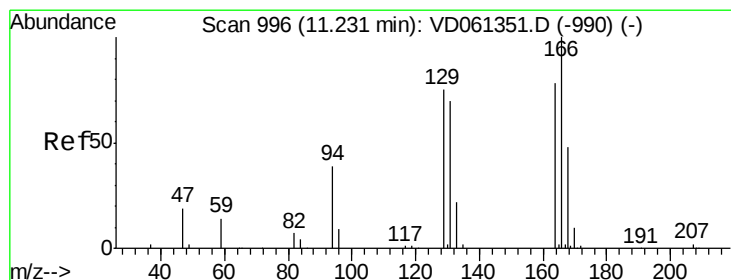
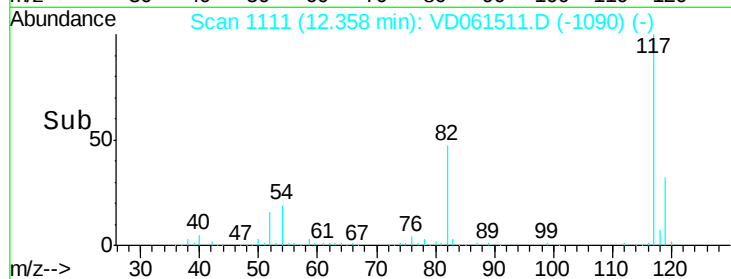
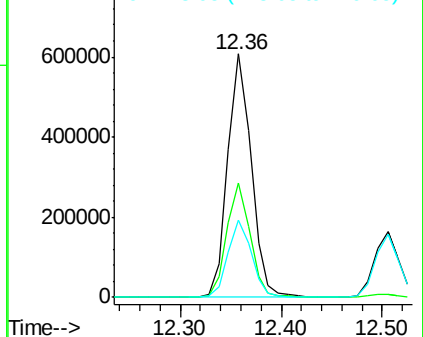


Abundance

Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 48.337 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	102.4	153.6
129	95.1	76.8	115.2
131	92.2	71.8	107.6

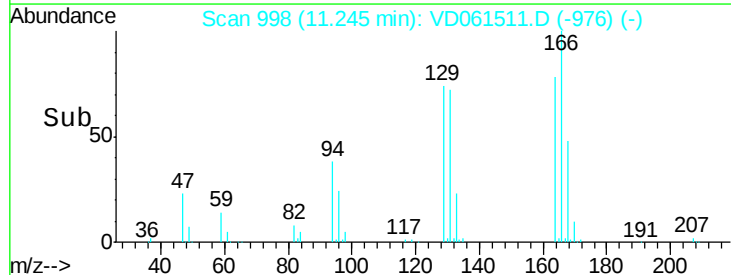
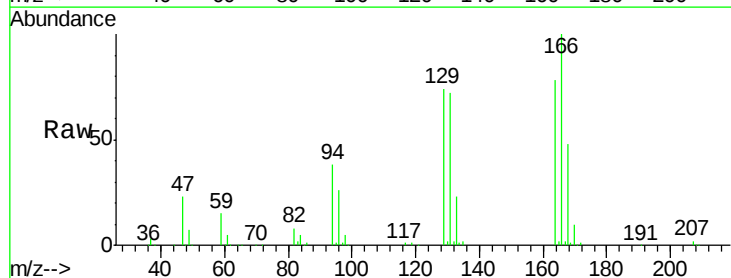
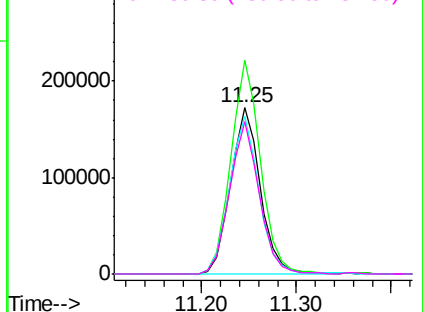
Abundance

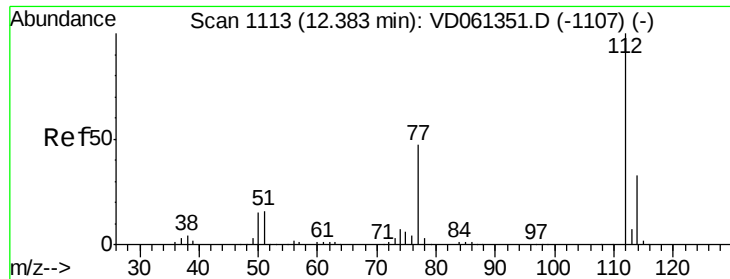
Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





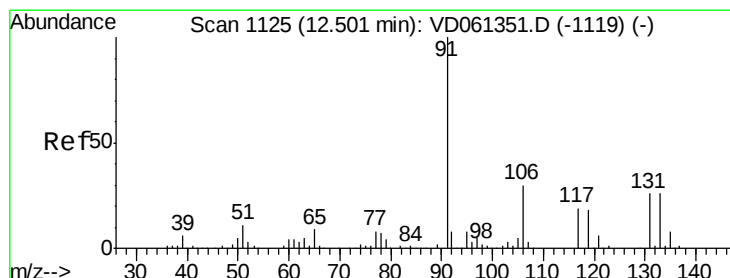
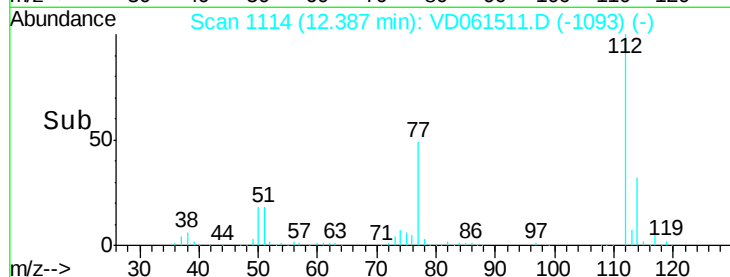
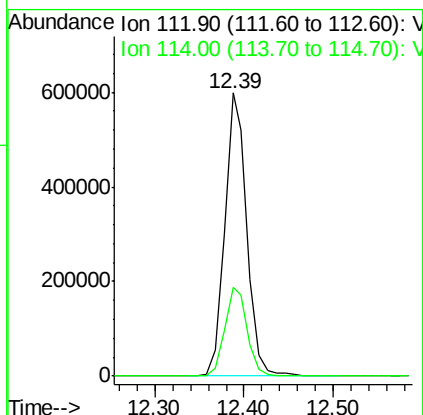
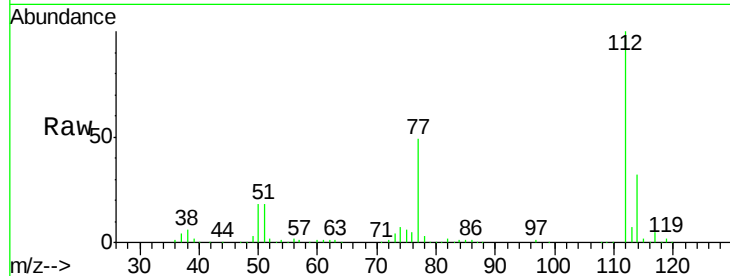
#65
Chlorobenzene
Concen: 51.332 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1037039
Ion Ratio Lower Upper
112 100
114 31.5 26.6 39.8

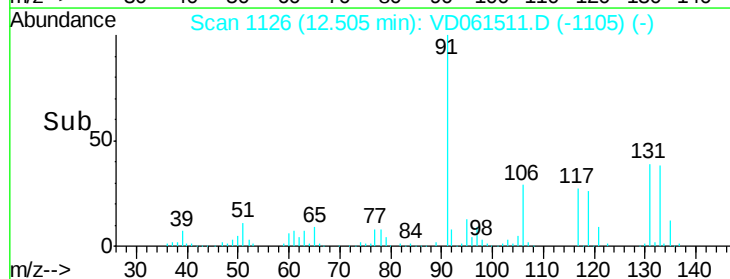
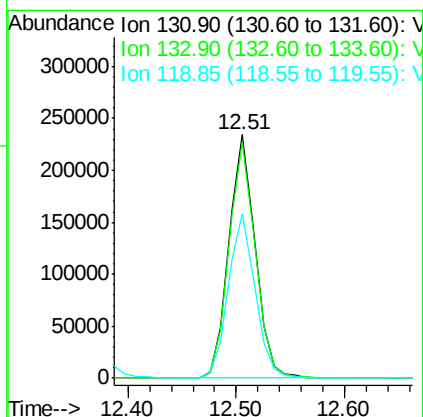
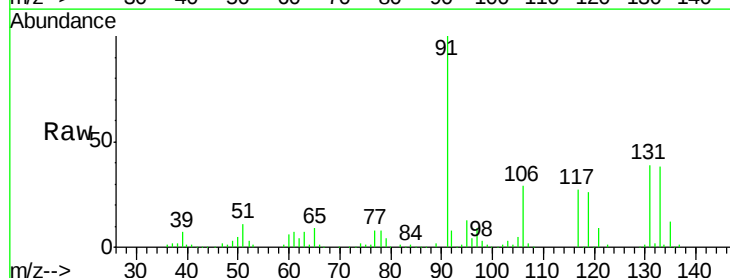
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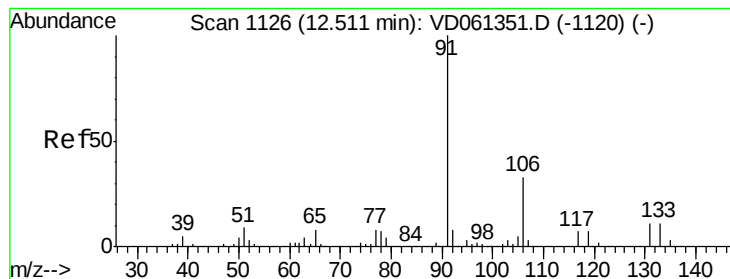
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.806 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion:131 Resp: 397413
Ion Ratio Lower Upper
131 100
133 97.1 49.4 148.2
119 67.7 34.1 102.2





#67

Ethyl Benzene

Concen: 50.486 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1556822

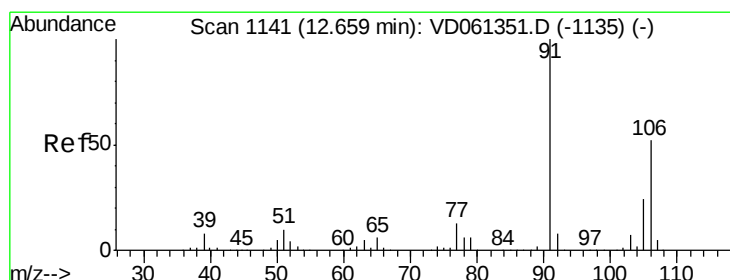
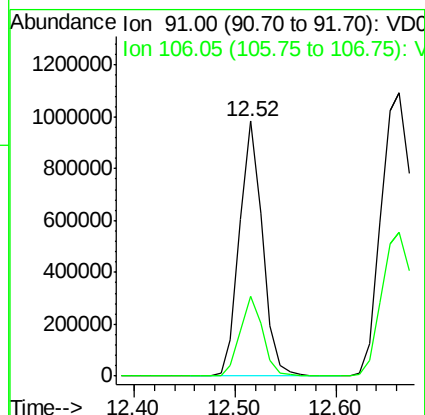
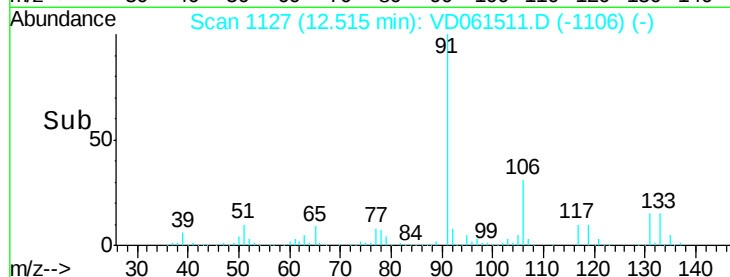
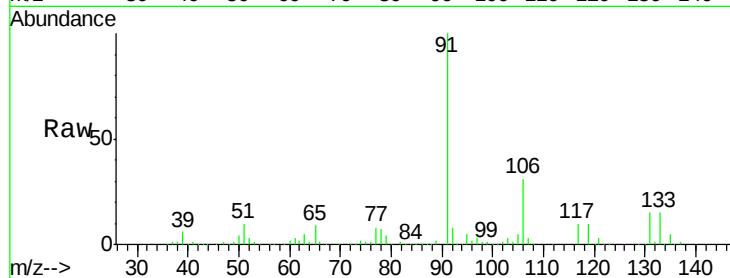
Ion Ratio Lower Upper

91 100

106 31.2 26.1 39.1

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#68

m/p-Xylenes

Concen: 101.346 ug/l

RT: 12.66 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VD061511.D

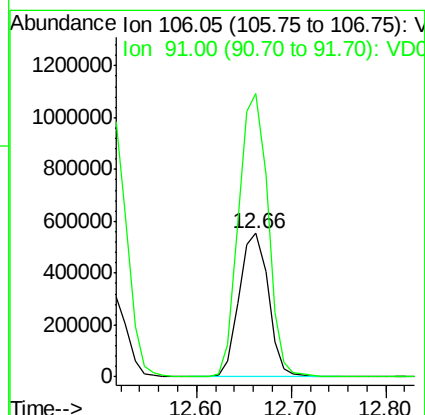
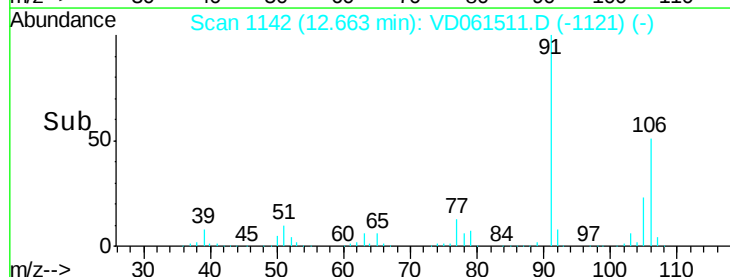
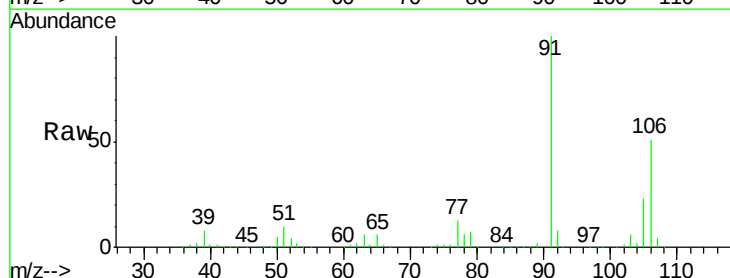
Acq: 2 Apr 2019 13:24

Tgt Ion:106 Resp: 1183825

Ion Ratio Lower Upper

106 100

91 197.3 153.1 229.7





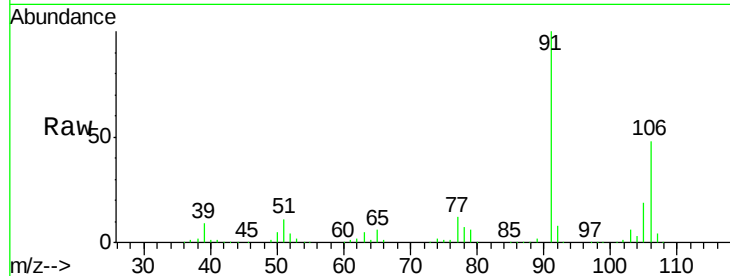
#69
o-Xylene
Concen: 46.214 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

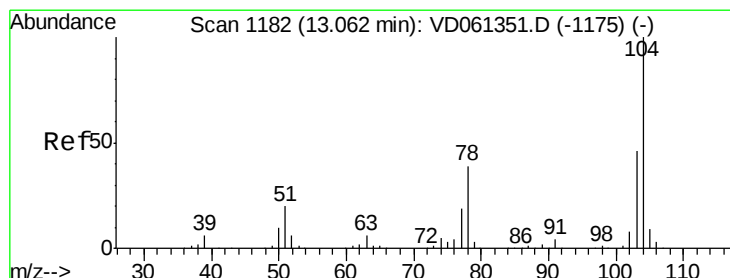
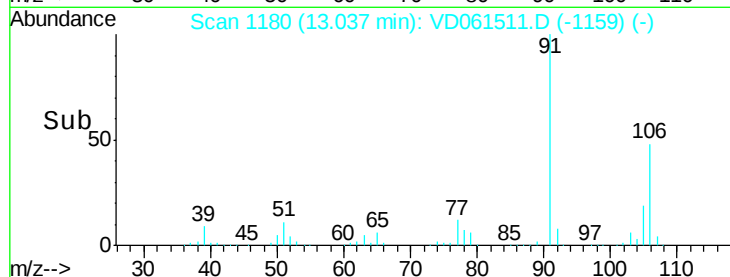
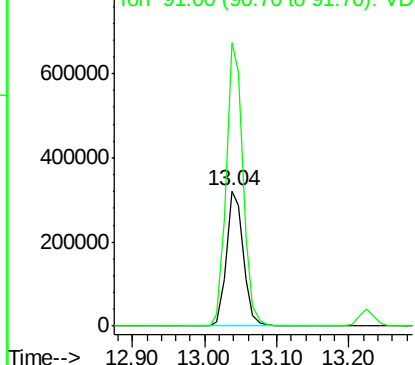
Tot Ion:106 Resp: 523860
Ion Ratio Lower Upper
106 100
91 209.0 103.8 311.3

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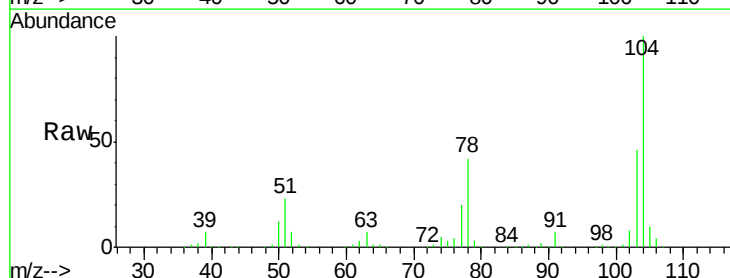


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

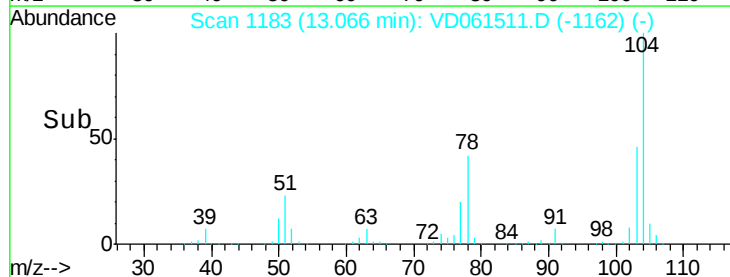
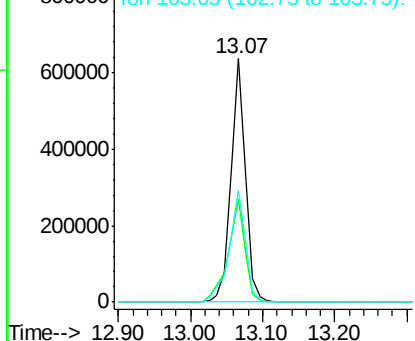


#70
Styrene
Concen: 45.344 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion:104 Resp: 895992
Ion Ratio Lower Upper
104 100
78 42.5 31.0 46.6
103 45.8 37.0 55.4



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





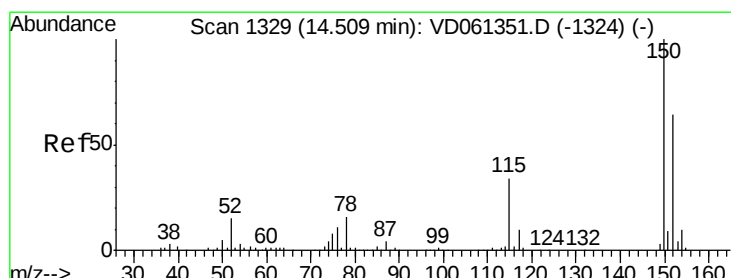
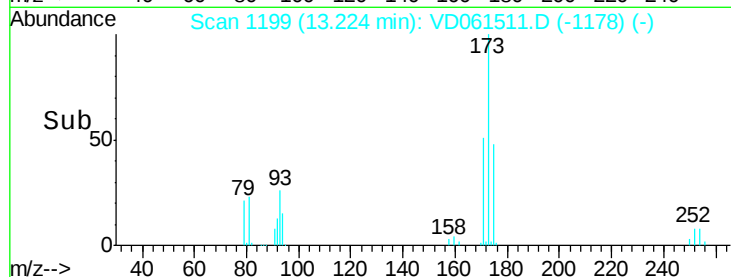
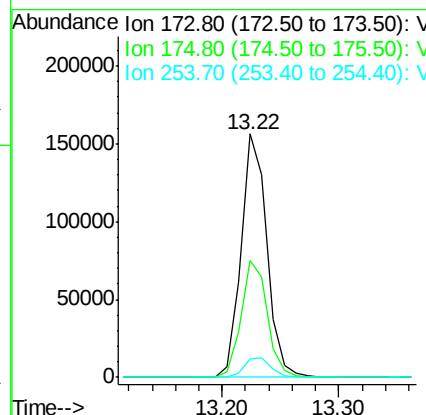
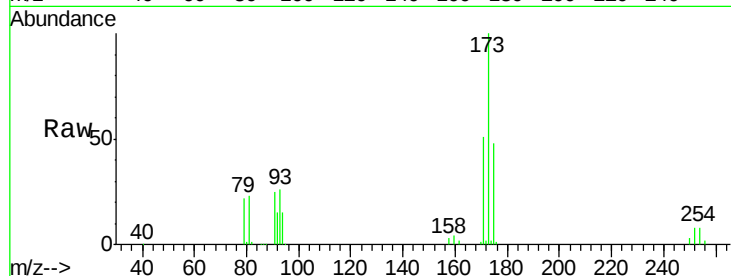
#71
Bromoform
Concen: 48.100 ug/l
RT: 13.22 min Scan# 1199
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	7.5	6.6	10.0

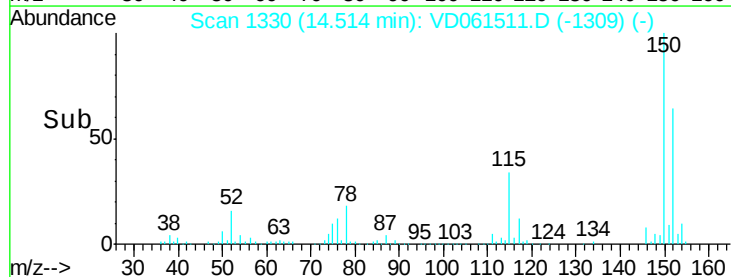
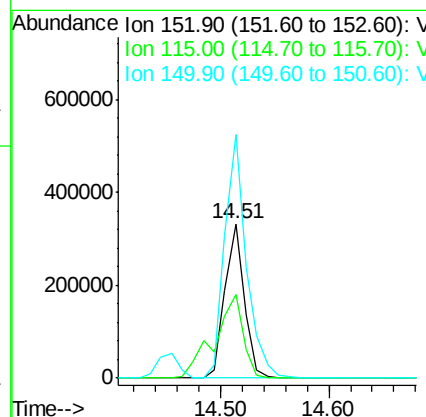
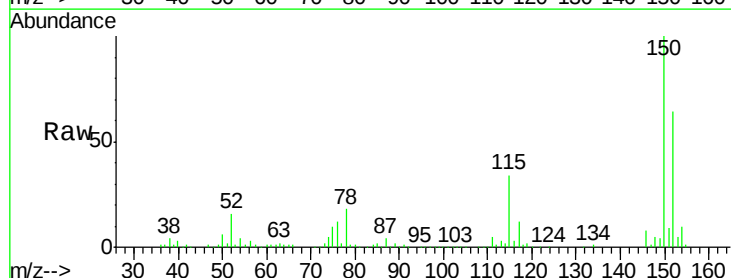
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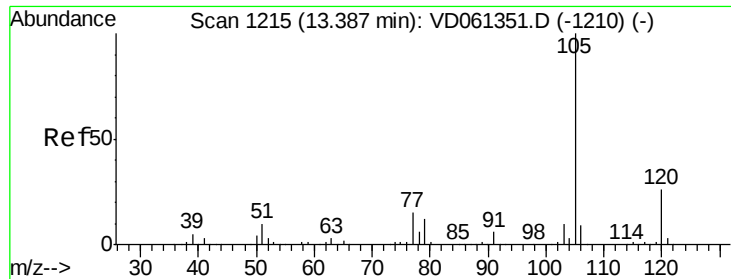
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.8	26.9	80.6
150	157.4	0.0	318.0





#73

Isopropylbenzene

Concen: 50.373 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion:105 Resp: 1447020

Ion Ratio Lower Upper

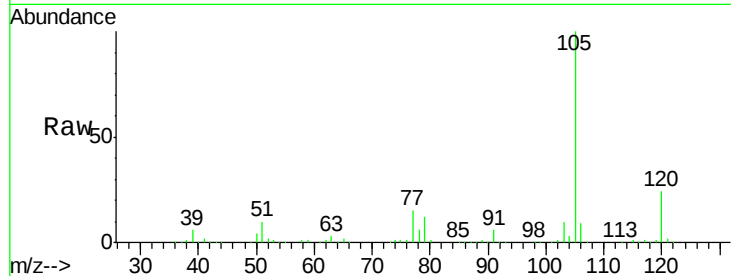
105 100

120 24.0 12.8 38.3

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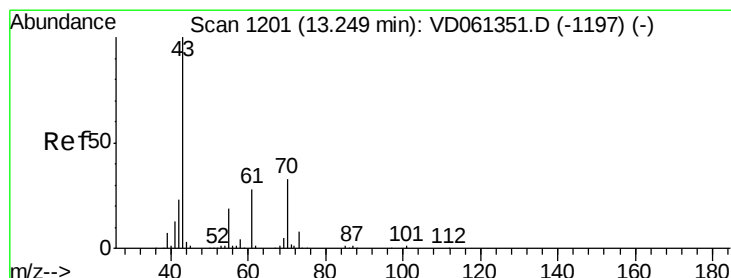
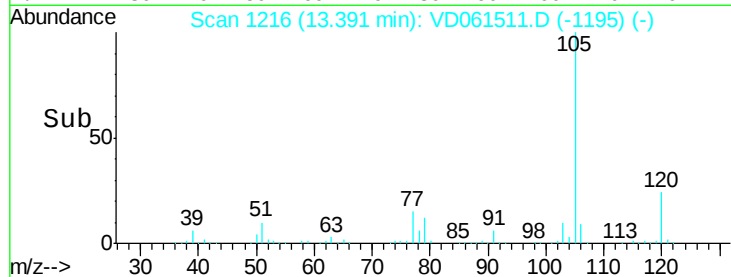
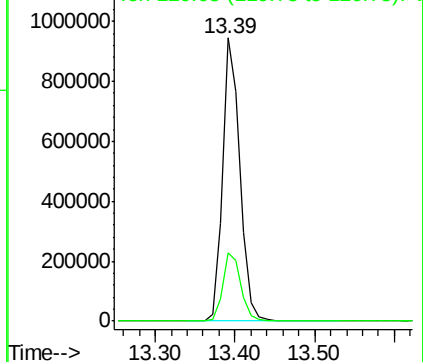
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 50.110 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tgt Ion: 43 Resp: 400987

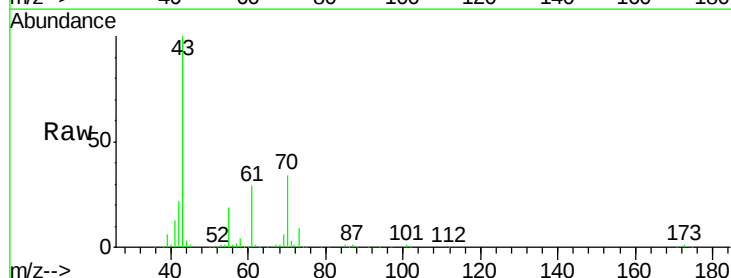
Ion Ratio Lower Upper

43 100

70 34.0 26.6 40.0

55 19.3 15.4 23.2

61 28.8 22.2 33.4

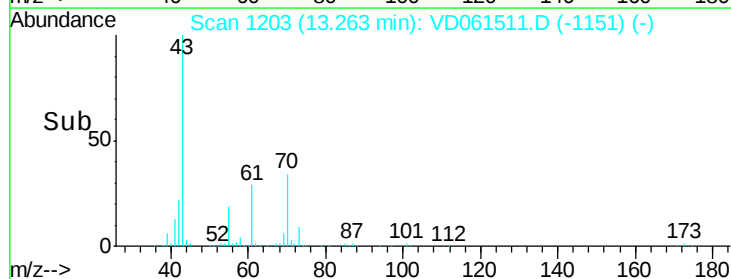
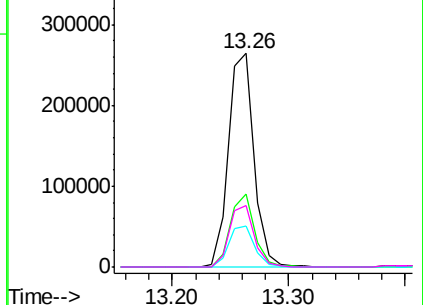


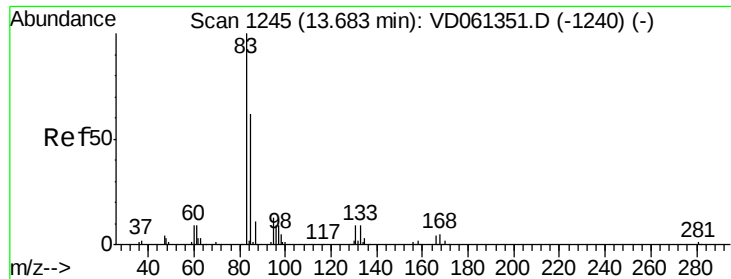
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 47.999 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

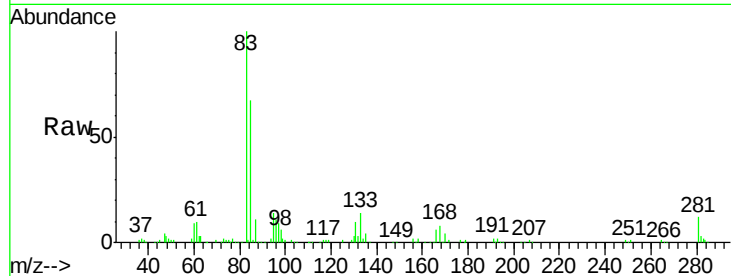
ClientSampleId :

VSTDCCC050

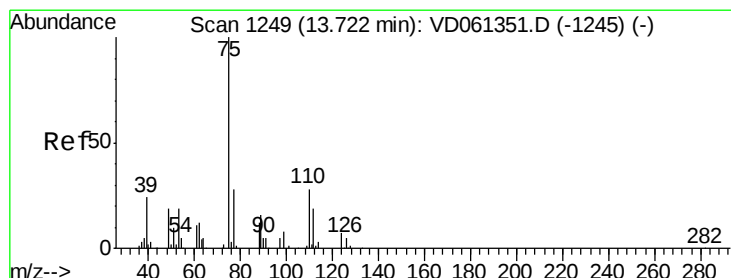
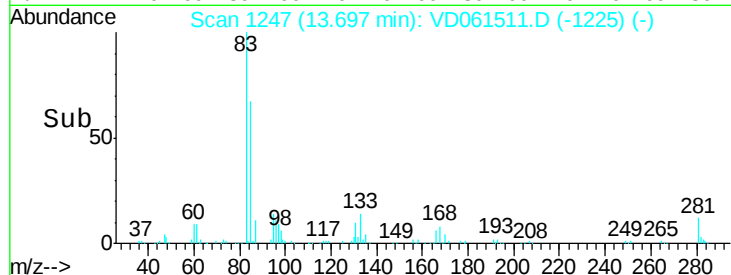
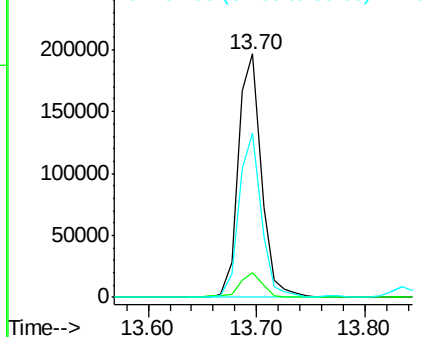
Tot Ion:	83	Resp:	290860
Ion Ratio	Lower	Upper	
83	100		
131	10.3	4.3	13.1
85	67.3	31.2	93.6

Manual Integrations
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Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 47.376 ug/l

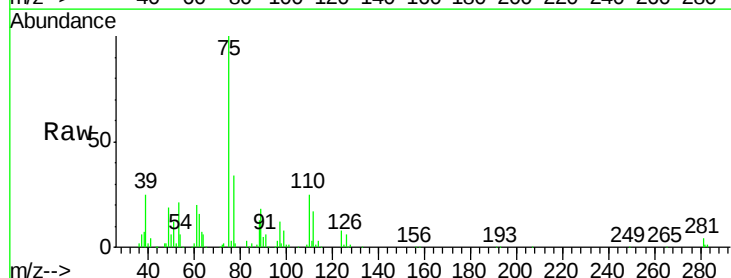
RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

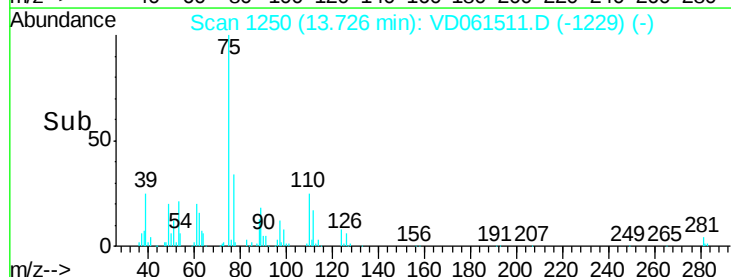
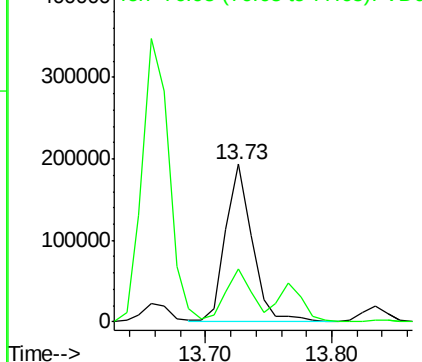
Lab File: VD061511.D

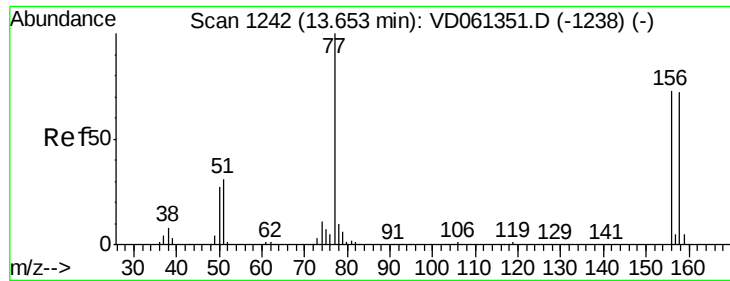
Acq: 2 Apr 2019 13:24

Tgt Ion:	75	Resp:	282459
Ion Ratio	Lower	Upper	
75	100		
77	33.5	16.2	48.5



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 49.332 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

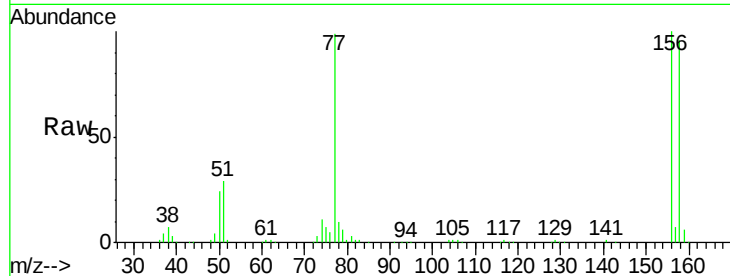
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	420114
Ion Ratio	Lower	Upper	
156	100		
77	99.4	68.5	205.6
158	96.1	49.1	147.3

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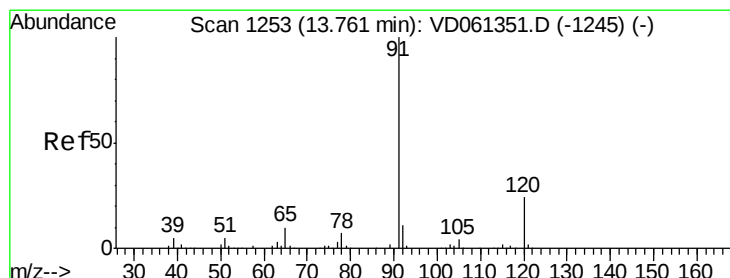
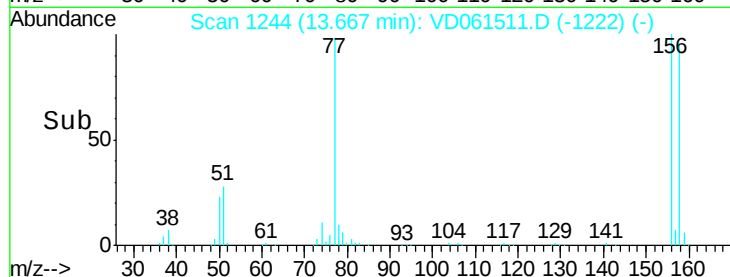
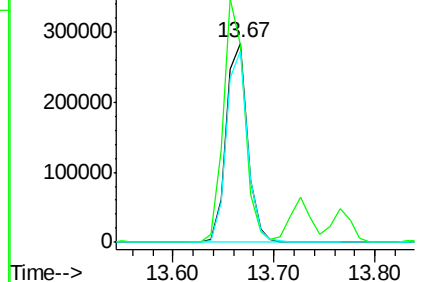
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 50.151 ug/l

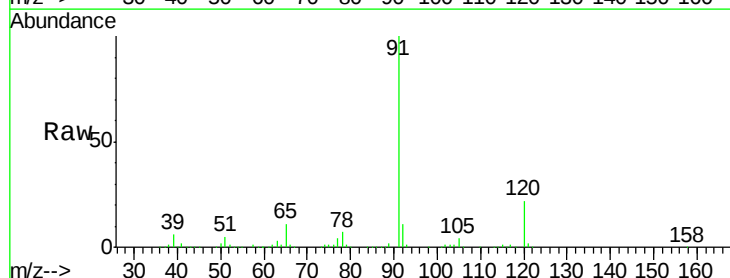
RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD061511.D

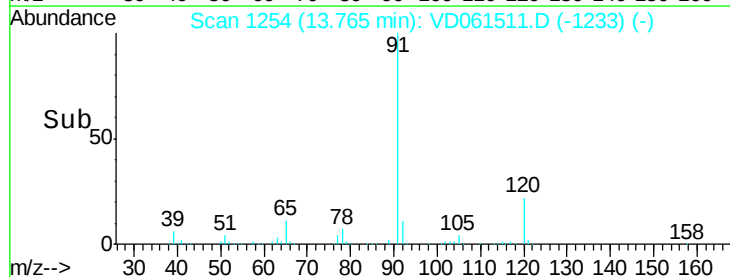
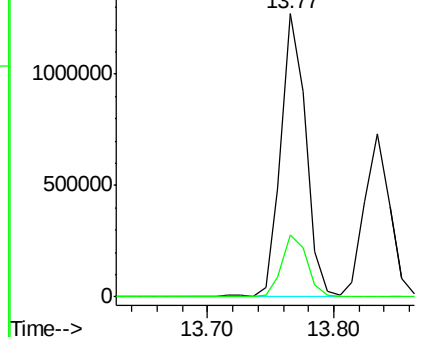
Acq: 2 Apr 2019 13:24

Tgt Ion:	91	Resp:	1762997
Ion Ratio	Lower	Upper	
91	100		
120	22.1	11.8	35.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 53.353 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1018377

Ion Ratio Lower Upper

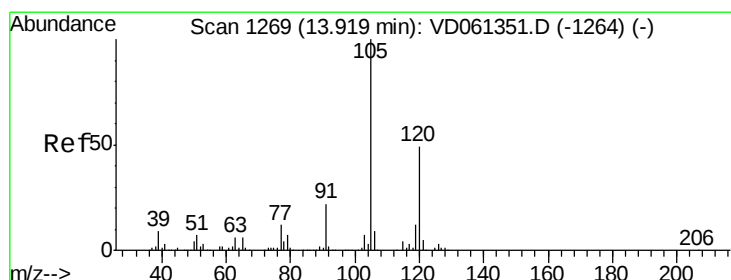
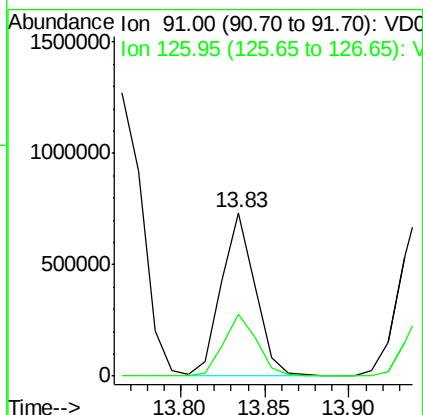
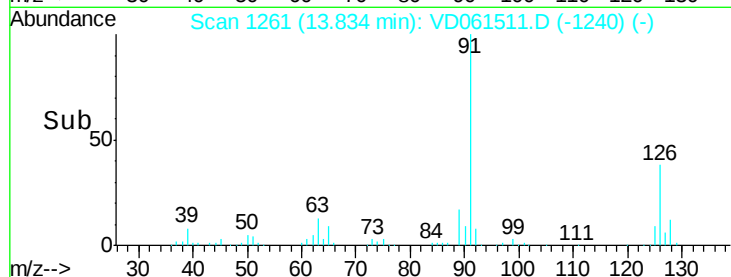
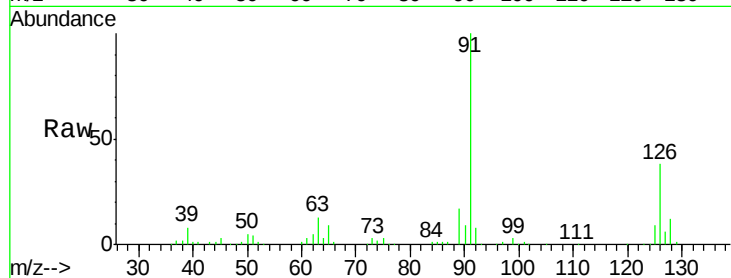
91 100

126 37.7 19.4 58.2

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#80

1,3,5-Trimethylbenzene

Concen: 52.060 ug/l

RT: 13.92 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD061511.D

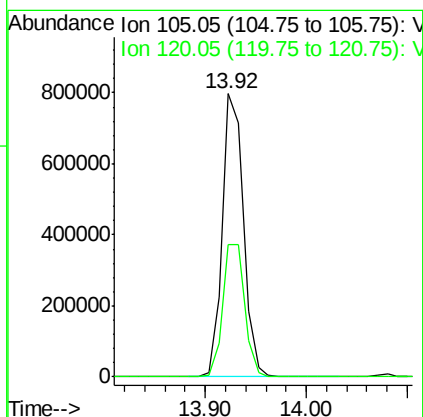
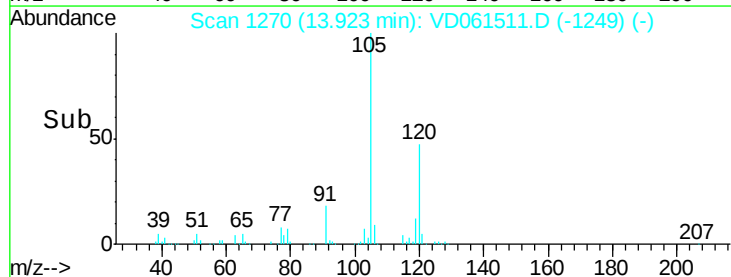
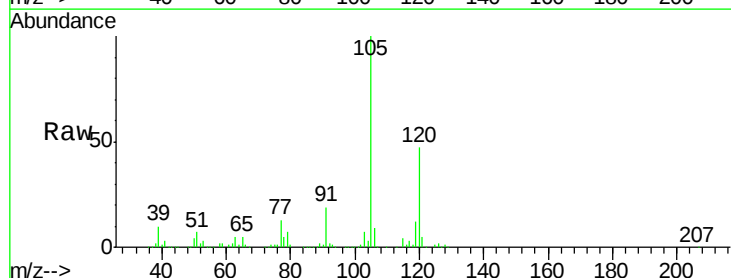
Acq: 2 Apr 2019 13:24

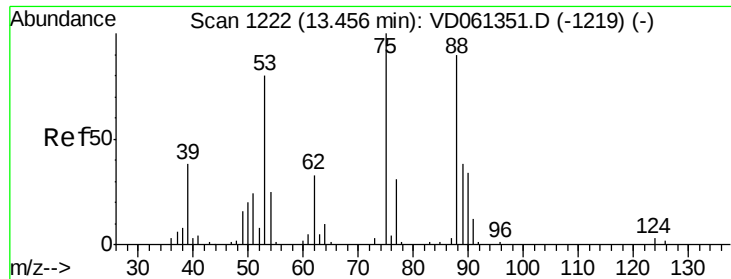
Tgt Ion: 105 Resp: 1160309

Ion Ratio Lower Upper

105 100

120 46.9 24.6 73.6





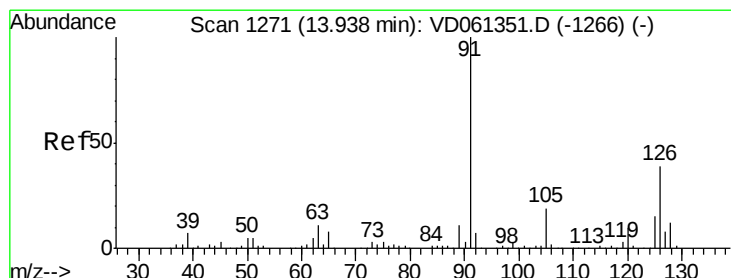
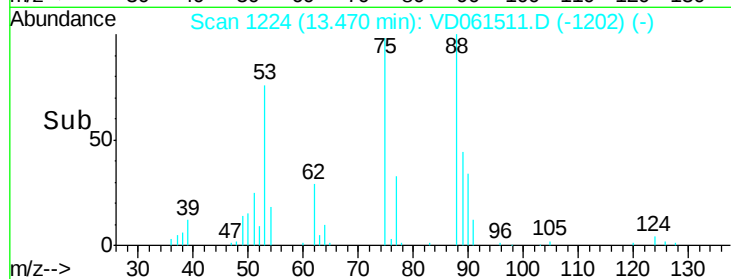
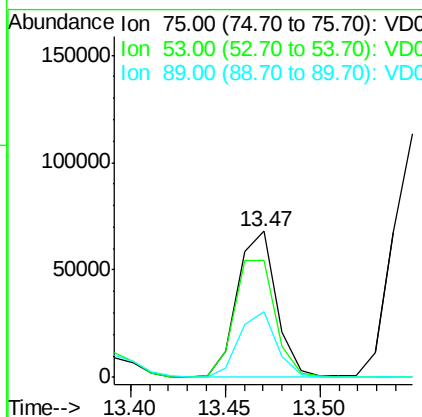
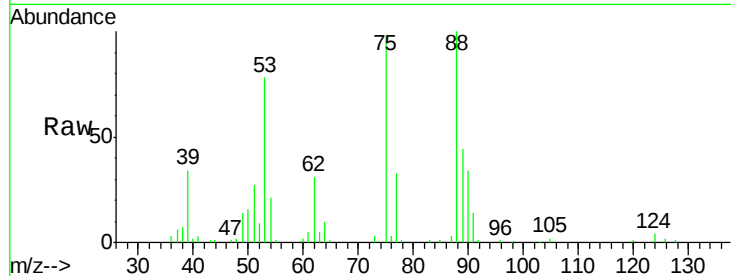
#81
trans-1,4-Dichloro-2-butene
Concen: 53.691 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	80.0	63.8	95.8
89	45.0	30.5	45.7

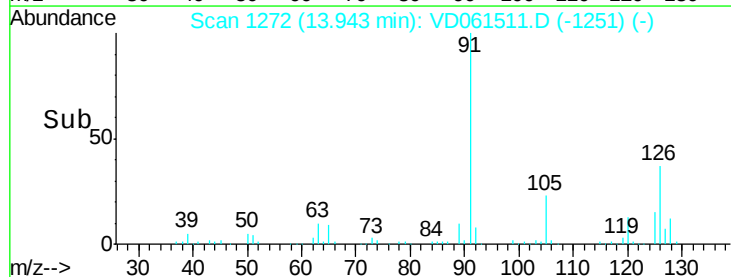
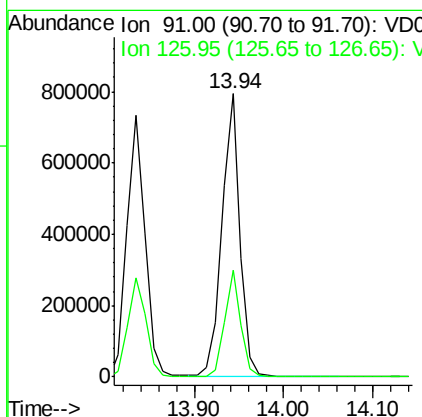
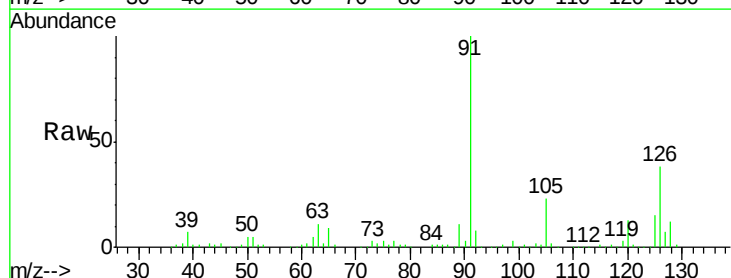
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#82
4-Chlorotoluene
Concen: 54.172 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.6	19.6	58.8





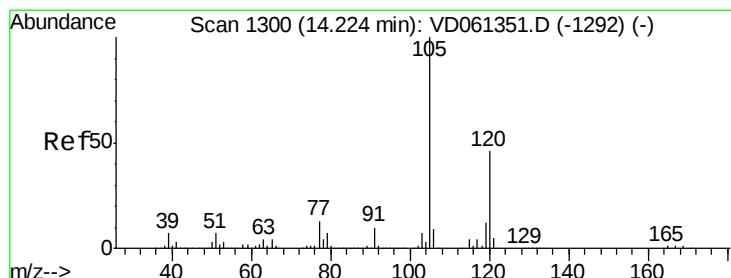
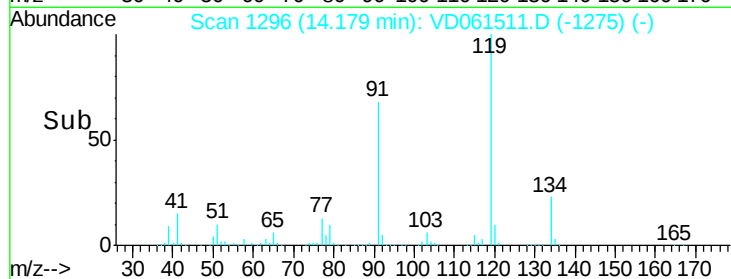
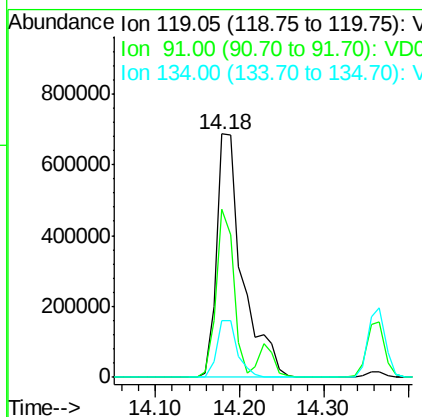
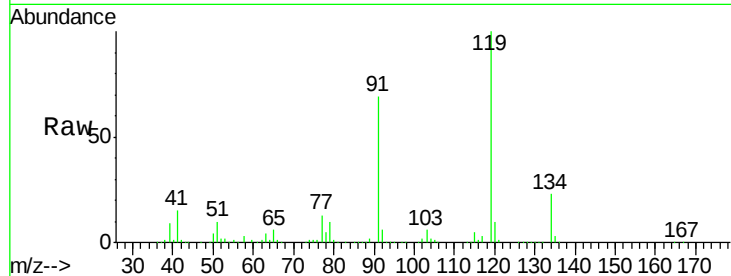
#83
tert-Butylbenzene
Concen: 52.664 ug/l
RT: 14.18 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 1466902
Ion Ratio Lower Upper
119 100
91 69.0 34.1 102.3
134 23.2 11.6 34.8

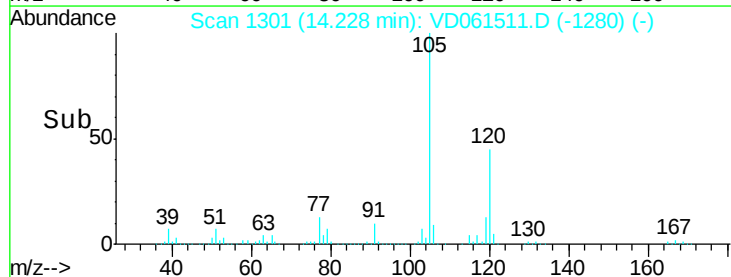
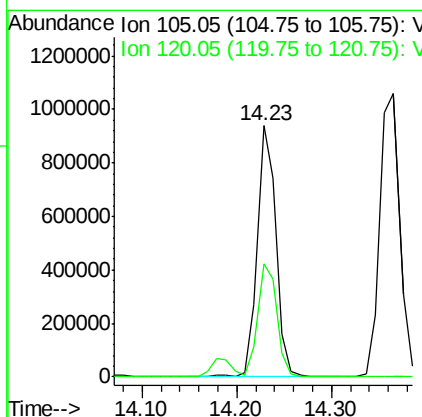
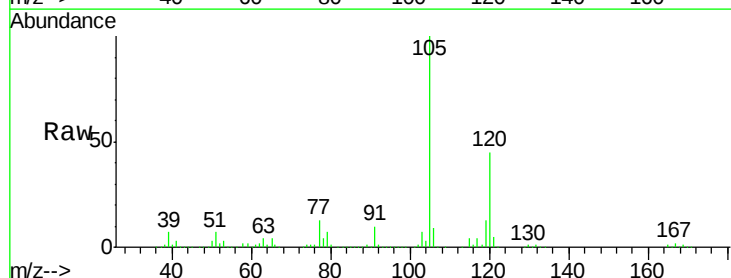
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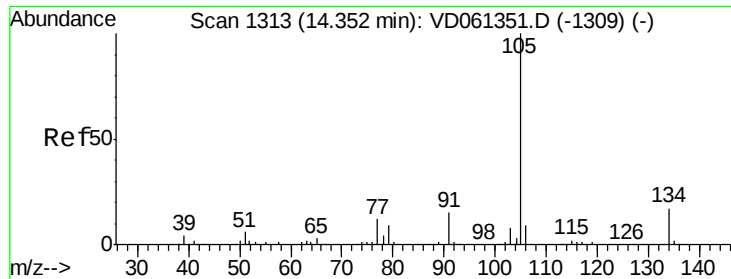
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#84
1,2,4-Trimethylbenzene
Concen: 53.085 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion:105 Resp: 1280916
Ion Ratio Lower Upper
105 100
120 45.0 22.8 68.4





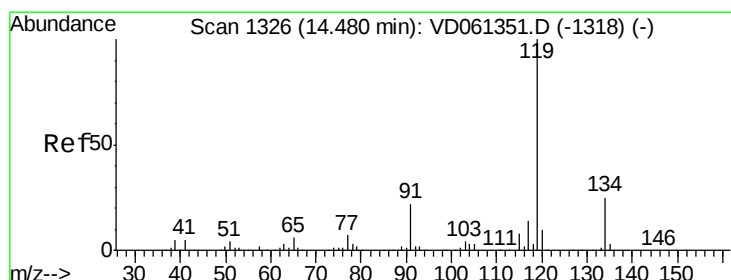
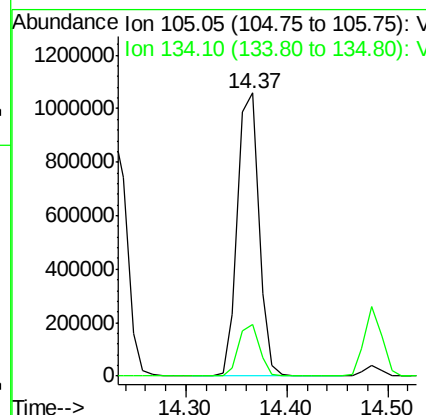
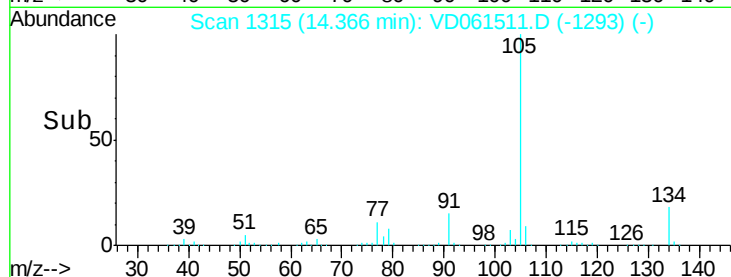
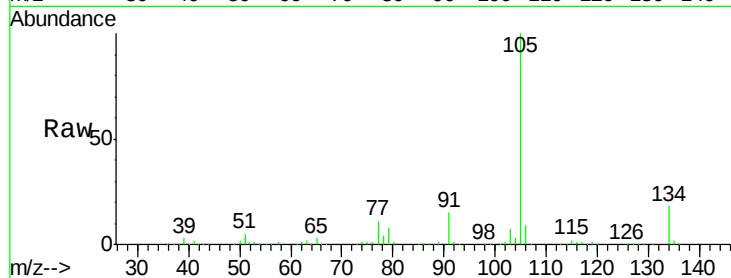
#85
 sec-Butylbenzene
 Concen: 52.690 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1559111
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.7 26.1

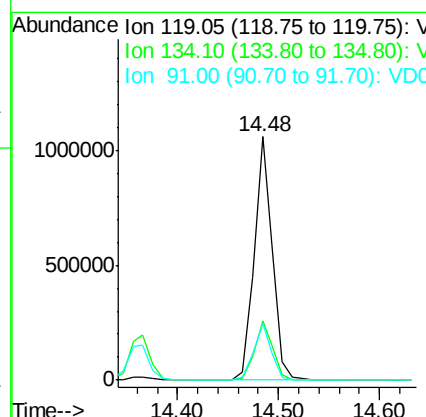
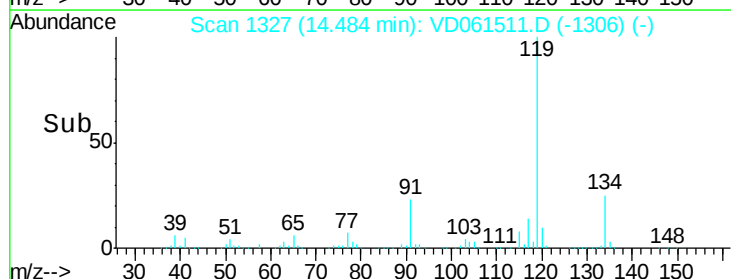
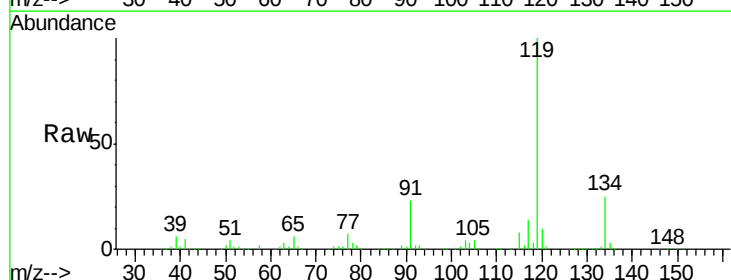
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#86
 p-Isopropyltoluene
 Concen: 52.967 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion:119 Resp: 1325319
 Ion Ratio Lower Upper
 119 100
 134 24.6 12.3 36.8
 91 23.3 11.1 33.1





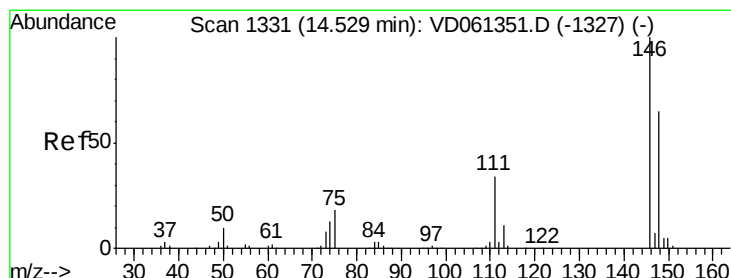
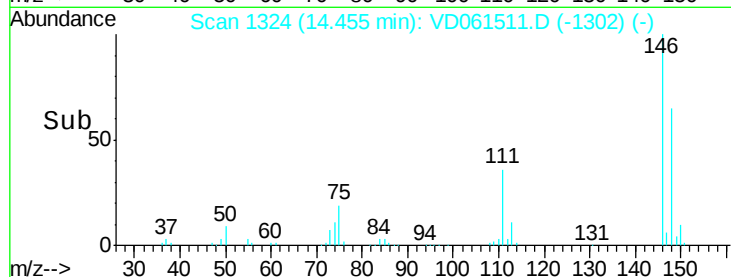
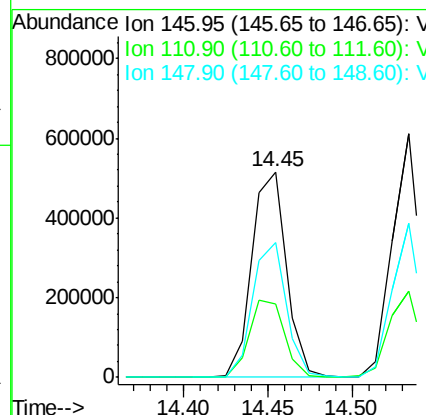
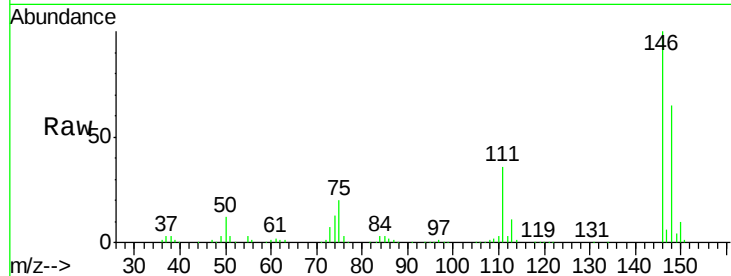
#87
 1,3-Dichlorobenzene
 Concen: 50.975 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.0	20.6	61.9
148	65.4	31.1	93.3

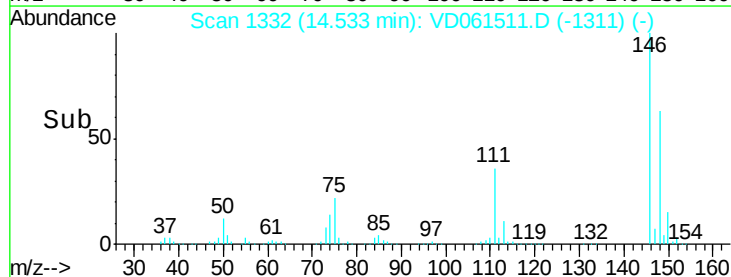
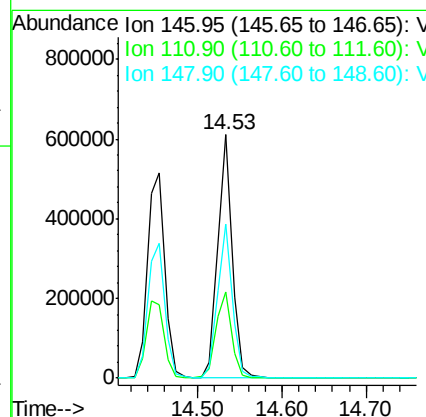
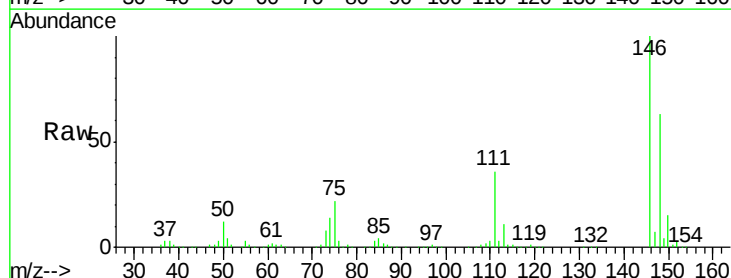
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#88
 1,4-Dichlorobenzene
 Concen: 52.119 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	16.8	50.4
148	63.3	32.6	98.0





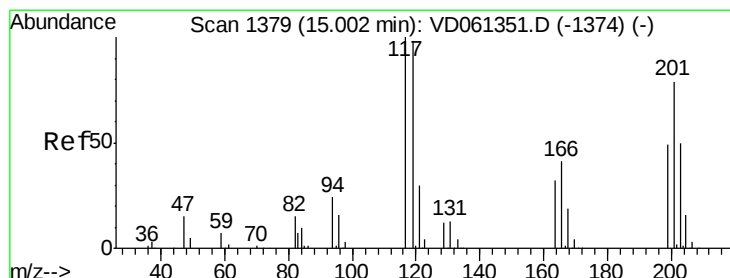
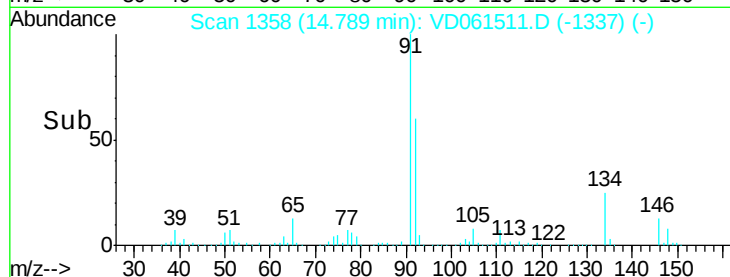
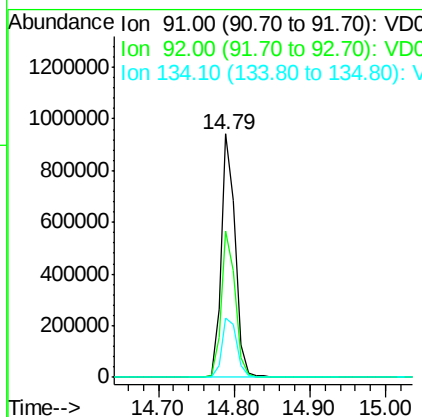
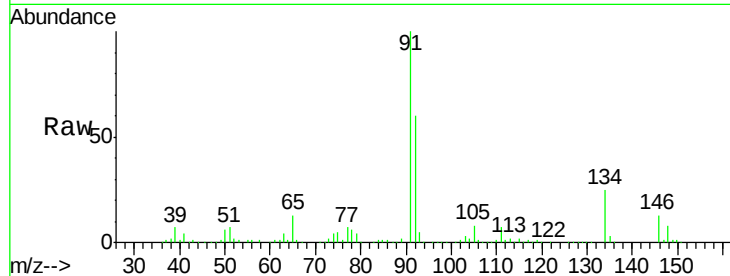
#89
n-Butylbenzene
Concen: 53.072 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1218829
Ion Ratio Lower Upper
91 100
92 60.2 30.3 91.0
134 24.6 12.4 37.0

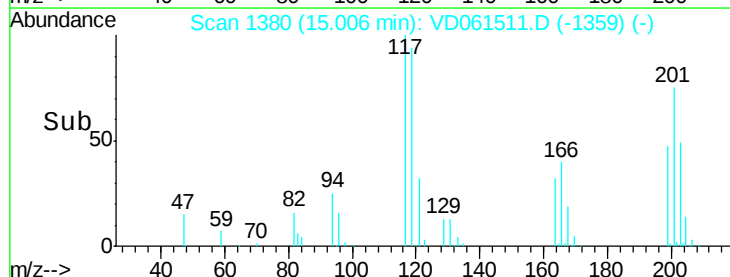
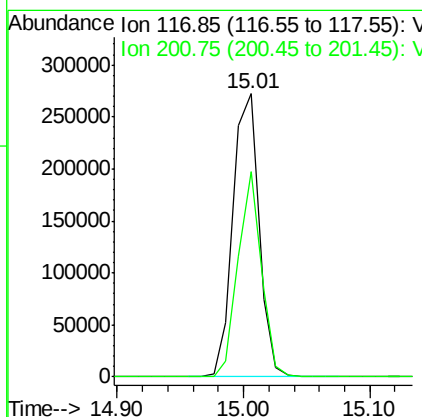
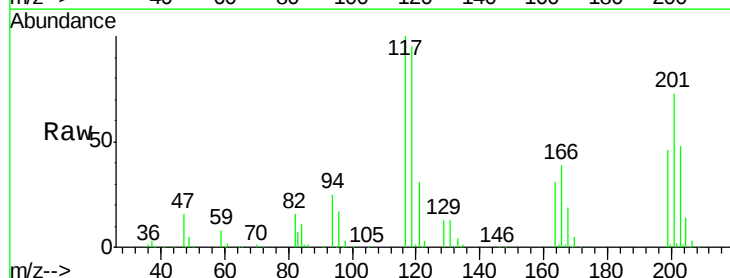
Manual Integrations
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#90
Hexachloroethane
Concen: 54.772 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD061511.D
Acq: 2 Apr 2019 13:24

Tgt Ion: 117 Resp: 387174
Ion Ratio Lower Upper
117 100
201 72.7 39.6 119.0





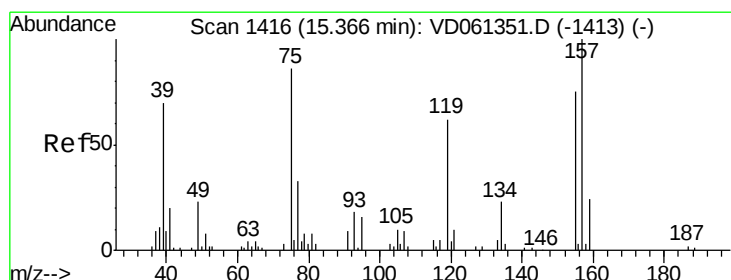
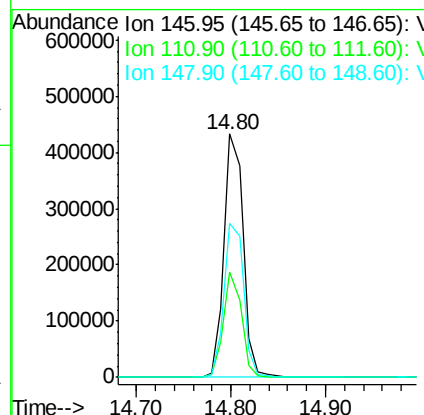
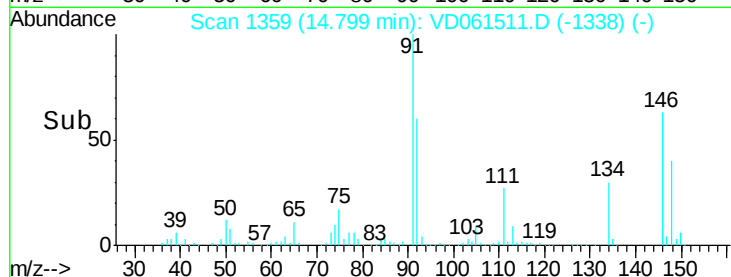
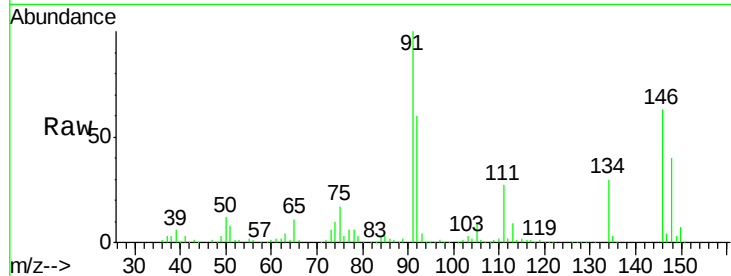
#91
 1,2-Dichlorobenzene
 Concen: 51.097 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.2	63.6
148	63.2	31.6	95.0

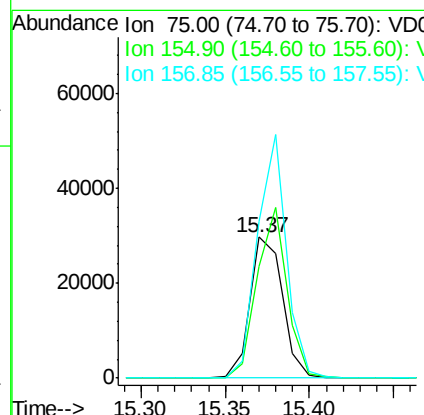
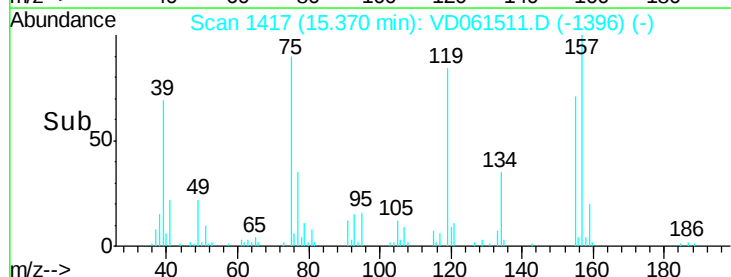
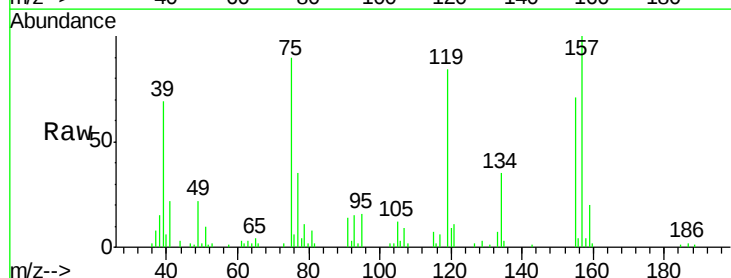
Manual Integrations
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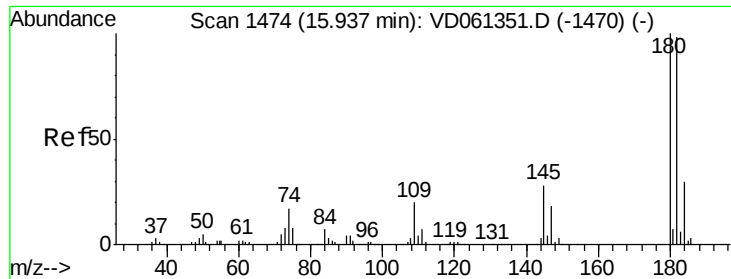
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.968 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.0	43.6	130.9
157	110.9	58.5	175.3





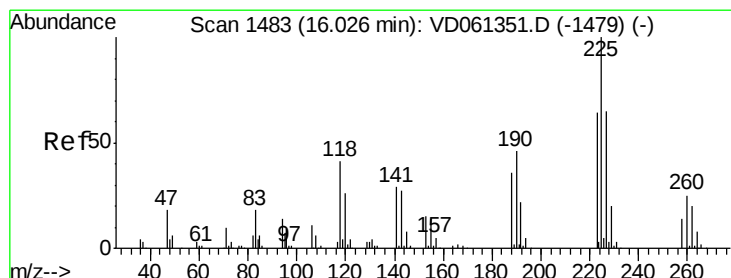
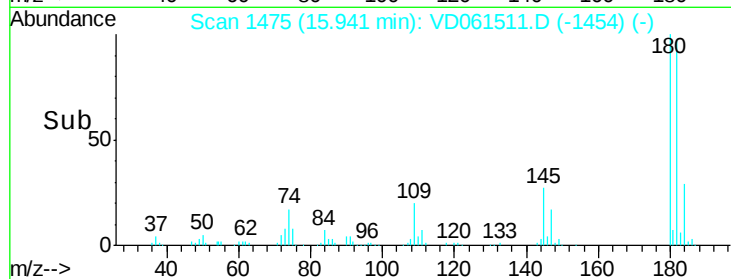
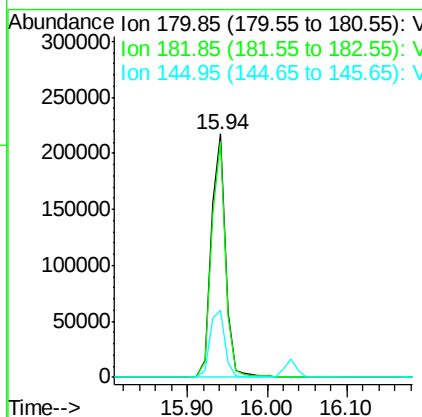
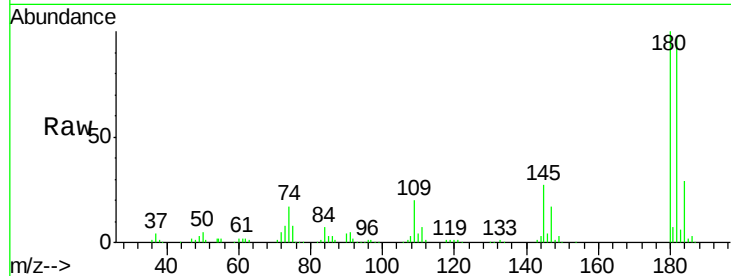
#93
 1,2,4-Trichlorobenzene
 Concen: 50.908 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	274313		
182	97.1	48.9	146.8	
145	27.4	14.1	42.3	

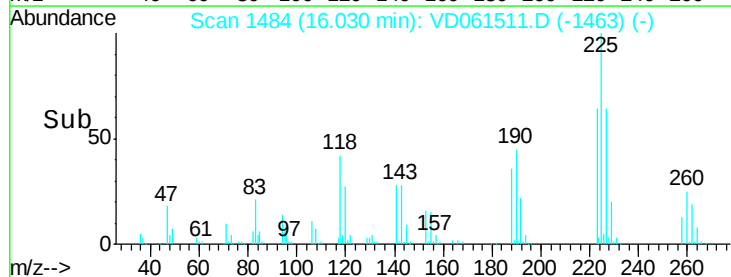
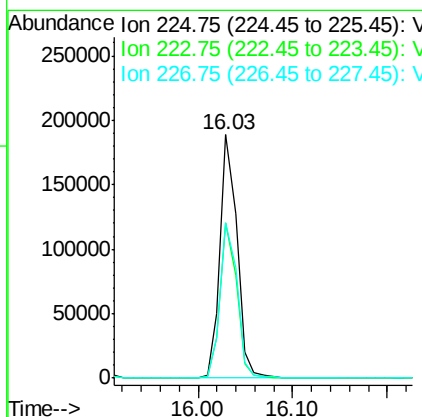
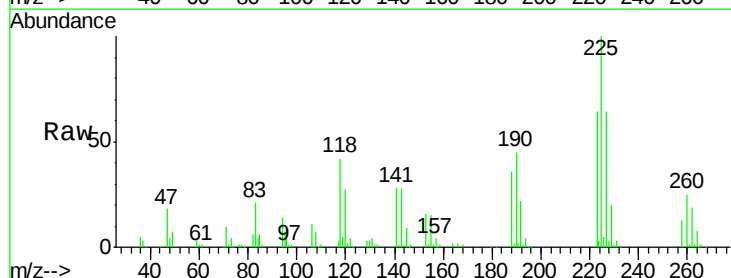
Manual Integrations
 APPROVED

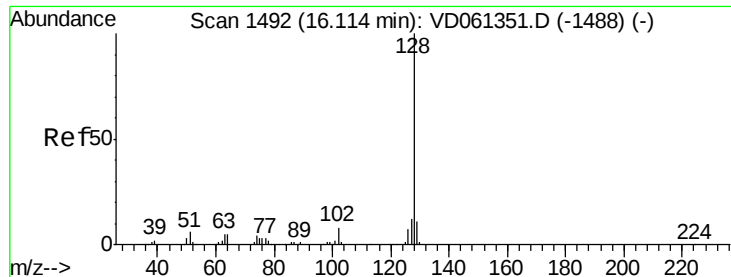
MMDadoda
 4/3/2019 1:02:52 PM



#94
 Hexachlorobutadiene
 Concen: 55.944 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD061511.D
 Acq: 2 Apr 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	235559		
223	64.0	32.0	96.0	
227	63.7	32.4	97.2	





#95

Naphthalene

Concen: 51.383 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Instrument :

MSVOA_D

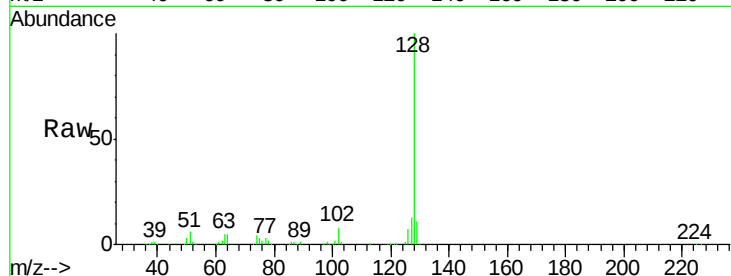
ClientSampleId :

VSTDCCC050

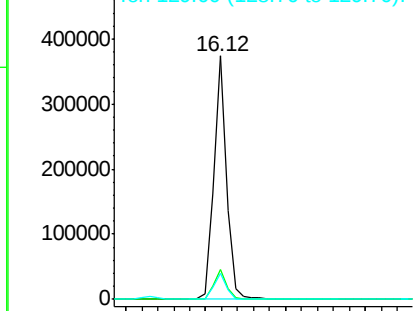
Tot Ion:	128	Resp:	422025
Ion Ratio	Lower	Upper	
128	100		
127	12.5	9.9	14.9
129	10.7	8.9	13.3

Manual Integrations
APPROVED

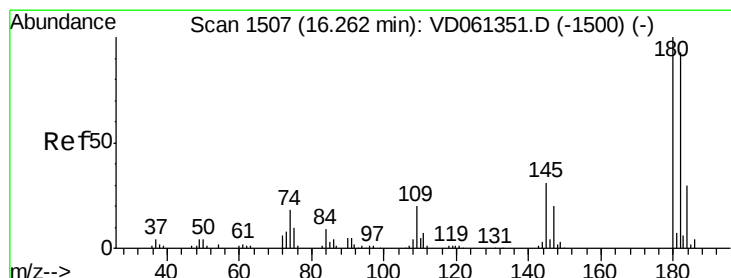
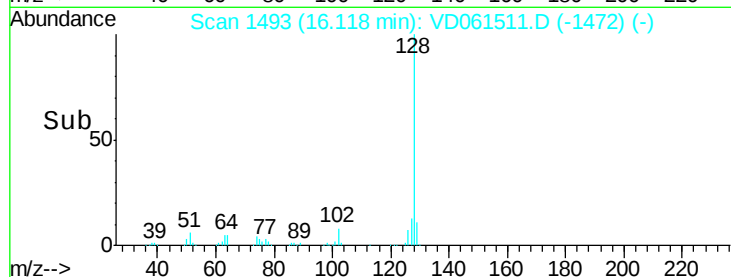
MMDadoda
4/3/2019 1:02:52 PM



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



Time--> 16.00 16.10 16.20 16.30



#96

1,2,3-Trichlorobenzene

Concen: 55.732 ug/l

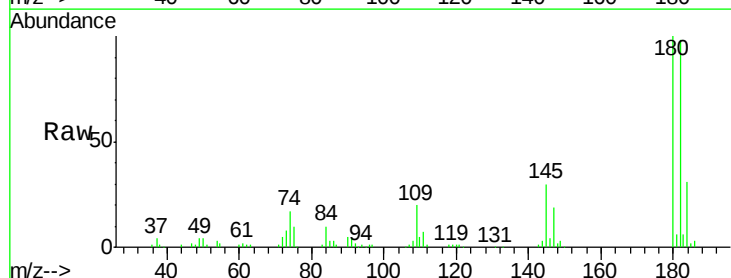
RT: 16.27 min Scan# 1508

Delta R.T. 0.00 min

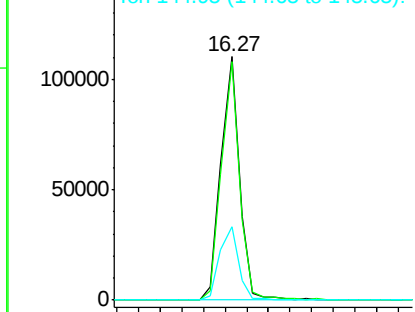
Lab File: VD061511.D

Acq: 2 Apr 2019 13:24

Tgt Ion:	180	Resp:	132148
Ion Ratio	Lower	Upper	
180	100		
182	97.9	46.4	139.1
145	30.0	15.3	45.9



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



Time--> 16.20 16.30 16.40

