

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121218\
 Data File : VD060541.D
 Acq On : 12 Dec 2018 12:28
 Operator : VA/AP
 Sample : VD1212SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Manual Integrations
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 12/13/2018 4:41:06 PM

Quant Time: Dec 13 00:27:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1569323	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2176474	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1706242	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	858260	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	547268	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
35) Dibromofluoromethane	6.32	113	802773	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
50) Toluene-d8	9.45	98	2370816	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	12.43	95	815328	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	422515	25.008	ug/l	100
3) Chloromethane	1.78	50	374618	23.234	ug/l	99
4) Vinyl Chloride	1.87	62	304491	23.662	ug/l	98
5) Bromomethane	2.16	94	60872	18.908	ug/l	97
6) Chloroethane	2.28	64	77056	17.282	ug/l	95
7) Trichlorofluoromethane	2.53	101	319676	21.514	ug/l	100
8) Diethyl Ether	2.84	74	52880	20.604	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.11	101	213507	22.146	ug/l	99
10) Methyl Iodide	3.26	142	225197	19.983	ug/l	99
11) Tert butyl alcohol	3.98	59	42121	93.207	ug/l	97
12) 1,1-Dichloroethene	3.09	96	176390	22.487	ug/l	98
13) Acrolein	3.00	56	41834	84.720	ug/l	96
14) Allyl chloride	3.55	41	321674	21.614	ug/l	100
15) Acrylonitrile	4.10	53	250824	97.750	ug/l	97
16) Acetone	3.17	43	156115	87.559	ug/l	98
17) Carbon Disulfide	3.33	76	552339	21.678	ug/l	98
18) Methyl Acetate	3.57	43	86136	20.327	ug/l	97
19) Methyl tert-butyl Ether	4.13	73	439403	20.200	ug/l	99
20) Methylene Chloride	3.73	84	366310	19.661	ug/l	98
21) trans-1,2-Dichloroethene	4.11	96	364192	21.344	ug/l	97
22) Diisopropyl ether	4.86	45	1078188	20.178	ug/l	97
23) Vinyl Acetate	4.81	43	2607225	98.482	ug/l	99
24) 1,1-Dichloroethane	4.76	63	591357	21.303	ug/l	100
25) 2-Butanone	5.63	43	324524	92.514	ug/l	99
26) 2,2-Dichloropropane	5.60	77	490216	22.860	ug/l	96
27) cis-1,2-Dichloroethene	5.60	96	371166	21.394	ug/l	98
28) Bromochloromethane	5.93	49	236094	19.199	ug/l	92
29) Tetrahydrofuran	5.96	42	196137	98.739	ug/l	98
30) Chloroform	6.11	83	591509	21.151	ug/l	98
31) Cyclohexane	6.37	56	573626	22.022	ug/l	97
32) 1,1,1-Trichloroethane	6.29	97	498264	21.673	ug/l	99
36) 1,1-Dichloropropene	6.52	75	455582	21.414	ug/l	97
37) Ethyl Acetate	5.70	43	189847	20.576	ug/l	97
38) Carbon Tetrachloride	6.50	117	408612	21.394	ug/l	98

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	534889	22.055	ug/l	99
40) Benzene	6.80	78	1169891	21.517	ug/l	100
41) Methacrylonitrile	5.94	41	109132m	21.942	ug/l	
42) 1,2-Dichloroethane	6.89	62	281058	20.331	ug/l	99
43) Isopropyl Acetate	8.34	43	219481	19.271	ug/l #	99
44) Trichloroethene	7.74	130	340905	20.980	ug/l	100
45) 1,2-Dichloropropane	8.11	63	285309	21.217	ug/l	99
46) Dibromomethane	8.21	93	153519	19.759	ug/l	97
47) Bromodichloromethane	8.49	83	387344	21.011	ug/l	98
48) Methyl methacrylate	8.24	41	133922	19.872	ug/l	97
49) 1,4-Dioxane	8.23	88	23372	382.658	ug/l	93
51) 4-Methyl-2-Pentanone	9.34	43	680949	96.115	ug/l	98
52) Toluene	9.54	92	742792	21.857	ug/l	99
53) t-1,3-Dichloropropene	9.92	75	304384	20.094	ug/l	98
54) cis-1,3-Dichloropropene	9.10	75	413393	20.771	ug/l	96
55) 1,1,2-Trichloroethane	10.17	97	185626	19.614	ug/l	97
56) Ethyl methacrylate	10.02	69	170247	19.877	ug/l	97
57) 1,3-Dichloropropane	10.38	76	297821	20.357	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.92	63	520746	101.614	ug/l	100
59) 2-Hexanone	10.49	43	474224	95.763	ug/l	100
60) Dibromochloromethane	10.63	129	236371	19.977	ug/l	98
61) 1,2-Dibromoethane	10.75	107	189855	19.685	ug/l	96
64) Tetrachloroethene	10.25	164	321705	21.293	ug/l	98
65) Chlorobenzene	11.31	112	754275	20.896	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.41	131	251732	21.637	ug/l	97
67) Ethyl Benzene	11.42	91	1384500	22.487	ug/l	97
68) m/p-Xylenes	11.56	106	1031993	45.306	ug/l	96
69) o-Xylene	11.93	106	469091	21.609	ug/l	97
70) Styrene	11.95	104	749551	21.512	ug/l	99
71) Bromoform	12.11	173	147630	19.019	ug/l	97
73) Isopropylbenzene	12.28	105	1329434	21.890	ug/l	98
74) N-amyl acetate	12.13	43	282371	19.237	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.56	83	188425	19.379	ug/l	99
76) 1,2,3-Trichloropropane	12.59	75	194526	20.003	ug/l	100
77) Bromobenzene	12.53	156	330778	20.720	ug/l	90
78) n-propylbenzene	12.63	91	1694405	22.070	ug/l	96
79) 2-Chlorotoluene	12.70	91	898063	21.557	ug/l	95
80) 1,3,5-Trimethylbenzene	12.79	105	1036037	22.325	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.34	75	53360	19.674	ug/l	93
82) 4-Chlorotoluene	12.81	91	1019851	21.796	ug/l	96
83) tert-Butylbenzene	13.05	119	1130745	21.731	ug/l	97
84) 1,2,4-Trimethylbenzene	13.09	105	1033463	21.507	ug/l	99
85) sec-Butylbenzene	13.22	105	1412009	21.772	ug/l	95
86) p-Isopropyltoluene	13.34	119	1139556	22.166	ug/l	99
87) 1,3-Dichlorobenzene	13.31	146	617058	21.348	ug/l	98
88) 1,4-Dichlorobenzene	13.39	146	582100	20.528	ug/l	99
89) n-Butylbenzene	13.65	91	1238582	21.784	ug/l	99
90) Hexachloroethane	13.85	117	276349	21.439	ug/l	86
91) 1,2-Dichlorobenzene	13.66	146	512172	21.682	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.23	75	20814	17.667	ug/l	70

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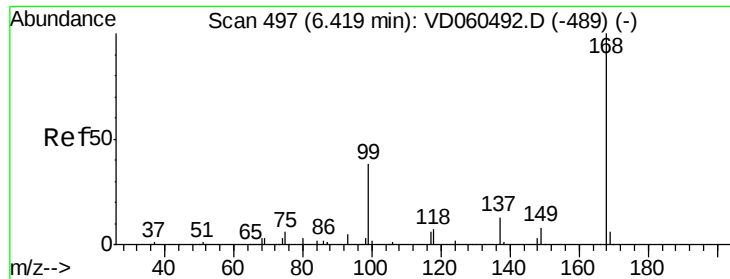
Manual Integrations
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12/13/2018 4:41:06 PM

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	370592	20.069	ug/l	98
94) Hexachlorobutadiene	14.88	225	289401	21.242	ug/l	97
95) Naphthalene	14.96	128	430224	19.584	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	294562	20.020	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion:168 Resp: 1569323

Ion Ratio Lower Upper

168 100

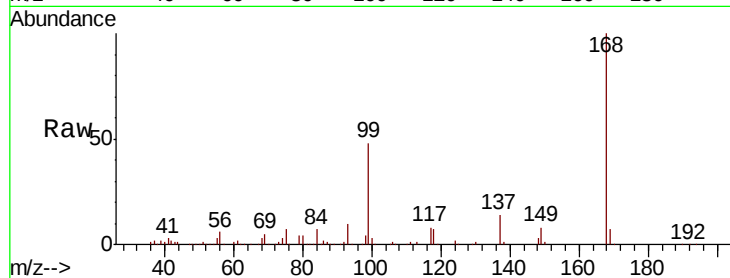
99 47.9 35.6 53.4

Manual Integrations

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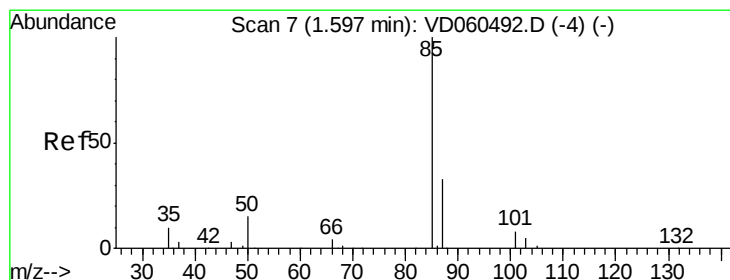
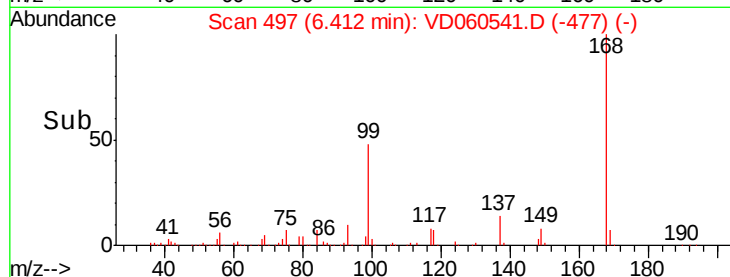
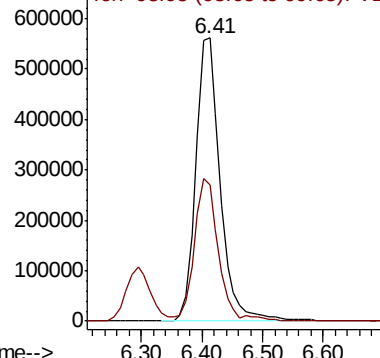
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 25.008 ug/l

RT: 1.61 min Scan# 9

Delta R.T. 0.01 min

Lab File: VD060541.D

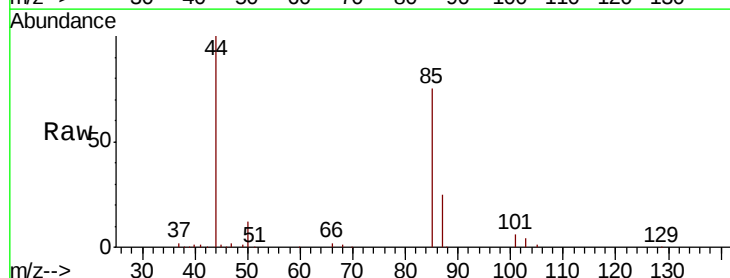
Acq: 12 Dec 2018 12:28

Tgt Ion: 85 Resp: 422515

Ion Ratio Lower Upper

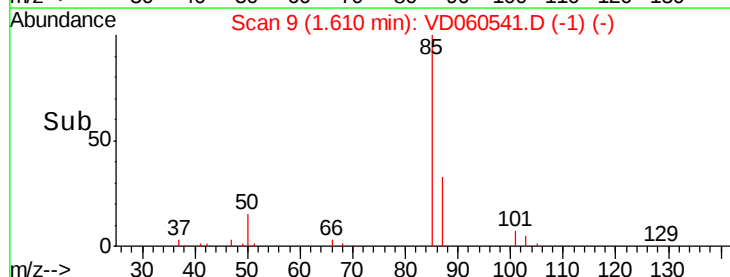
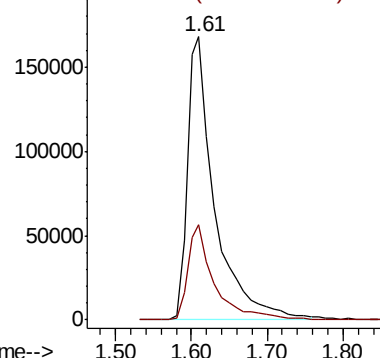
85 100

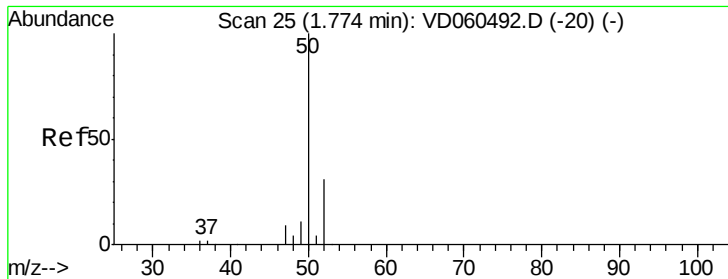
87 33.5 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 23.234 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 50 Resp: 374618

Ion Ratio Lower Upper

50 100

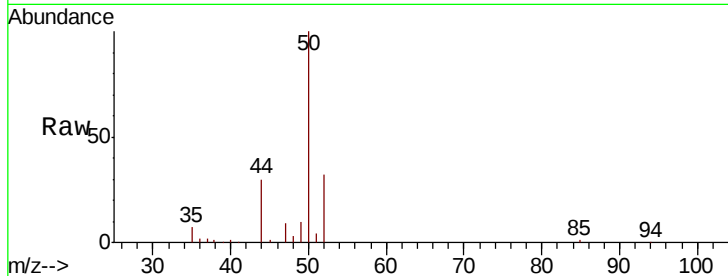
52 31.6 25.0 37.4

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.78

150000

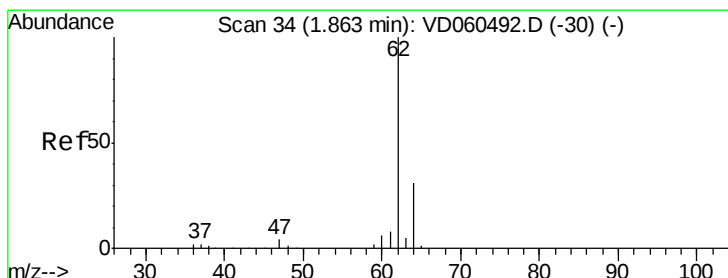
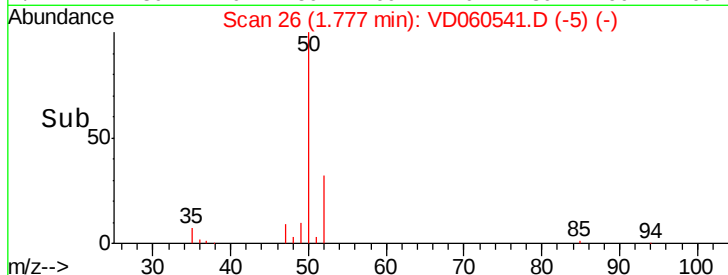
100000

50000

0

1.70 1.80 1.90 2.00

Time-->



#4

Vinyl Chloride

Concen: 23.662 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.00 min

Lab File: VD060541.D

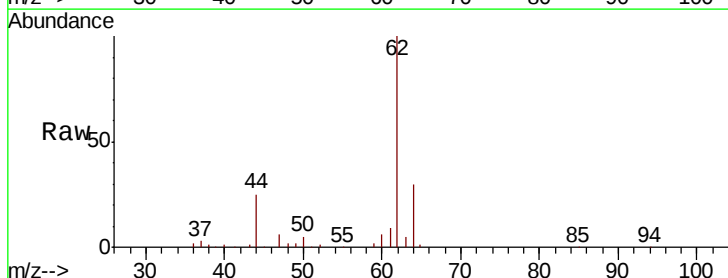
Acq: 12 Dec 2018 12:28

Tgt Ion: 62 Resp: 304491

Ion Ratio Lower Upper

62 100

64 29.8 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.87

150000

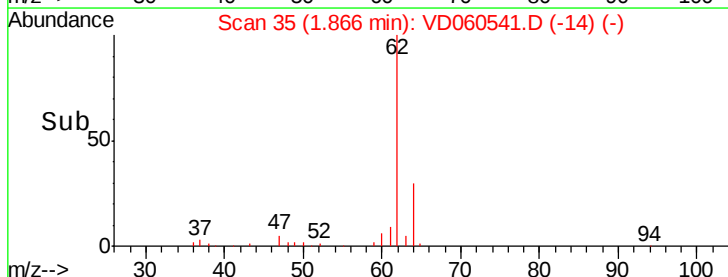
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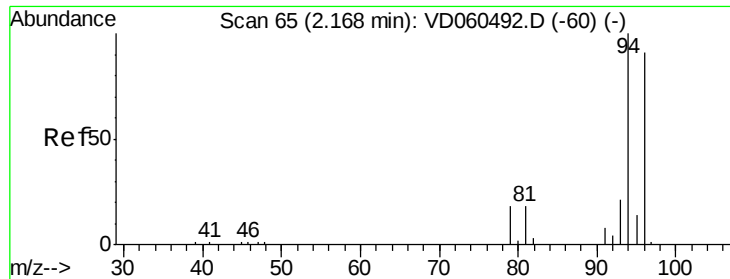
50000

0

1.80 1.90 2.00

Time-->





#5

Bromomethane

Concen: 18.908 ug/l

RT: 2.16 min Scan# 65

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 94 Resp: 60872

Ion Ratio Lower Upper

94 100

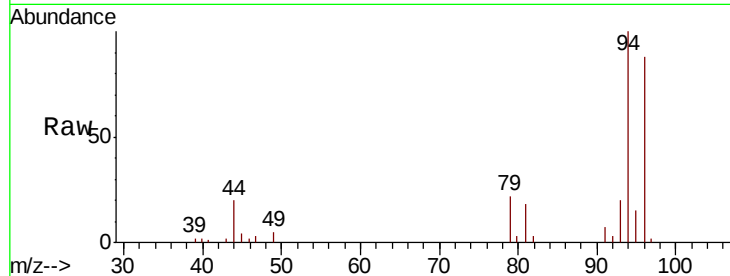
96 87.6 72.6 108.8

Manual Integrations

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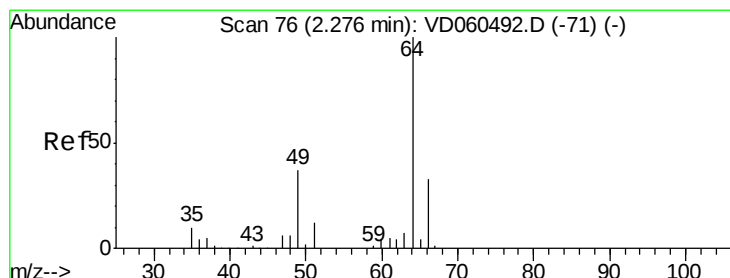
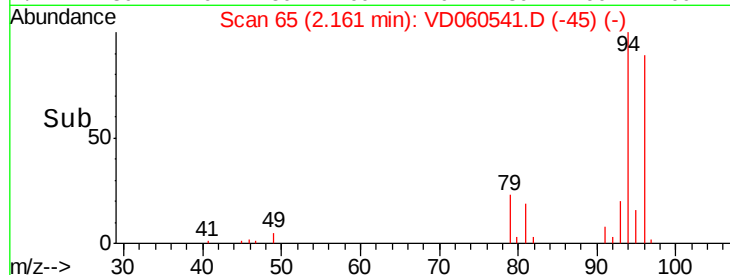
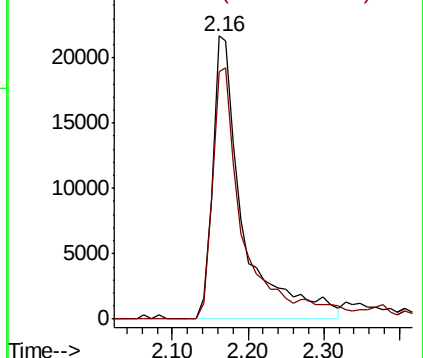
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 17.282 ug/l

RT: 2.28 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD060541.D

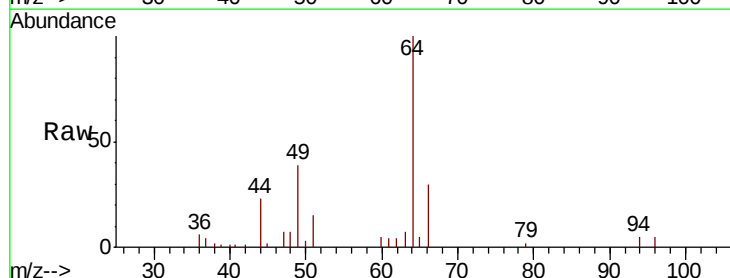
Acq: 12 Dec 2018 12:28

Tgt Ion: 64 Resp: 77056

Ion Ratio Lower Upper

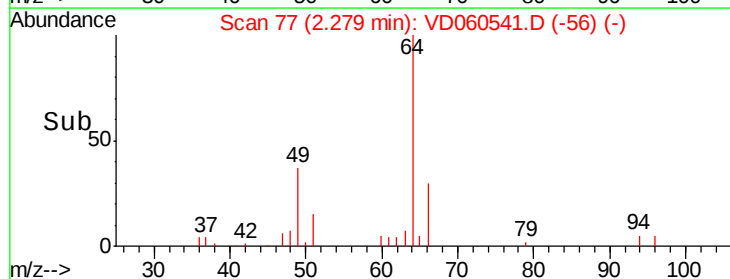
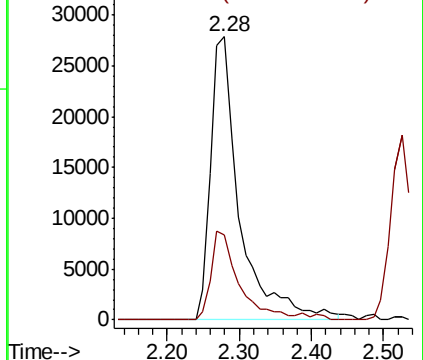
64 100

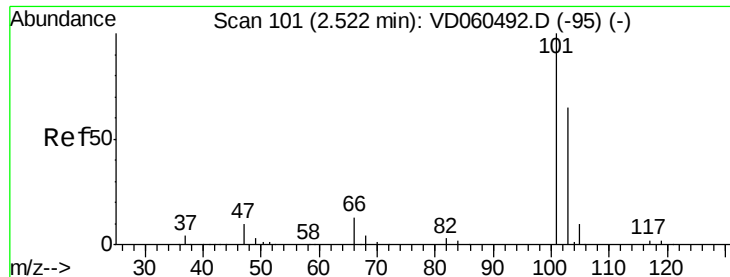
66 29.9 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

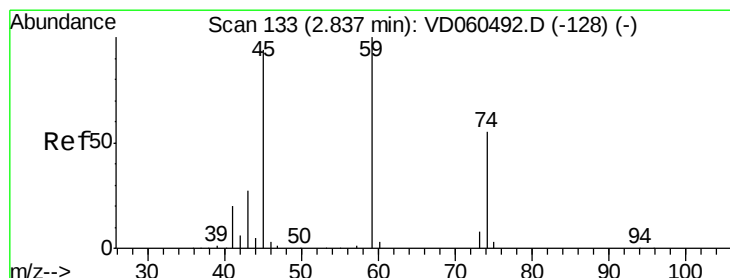
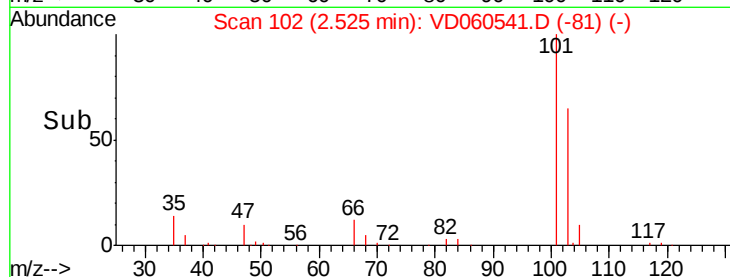
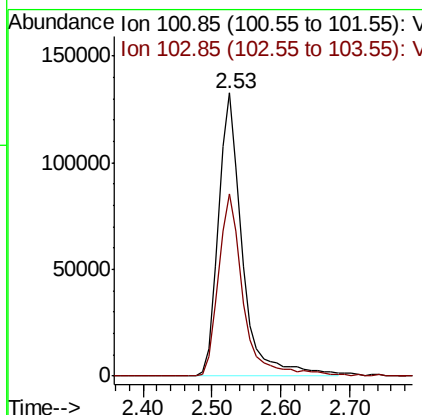
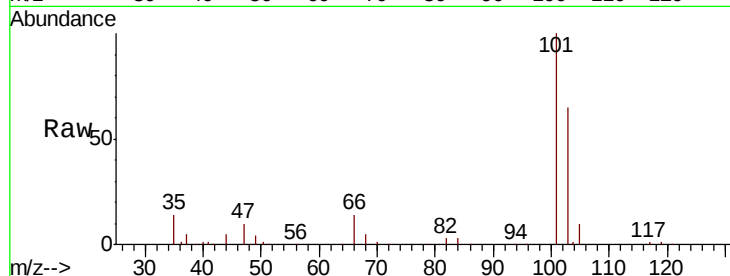
Trichlorofluoromethane
Concen: 21.514 ug/l
RT: 2.53 min Scan# 102
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

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ClientSampleId :
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Tot Ion:101 Resp: 319676
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.8

Manual Integrations
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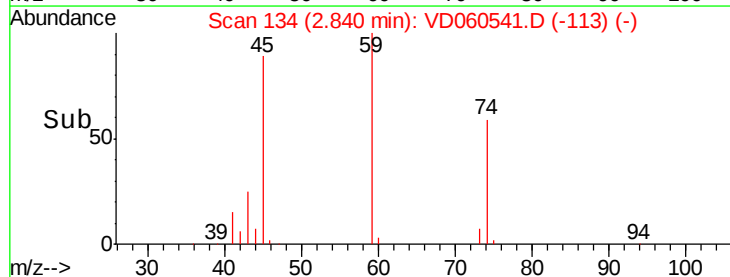
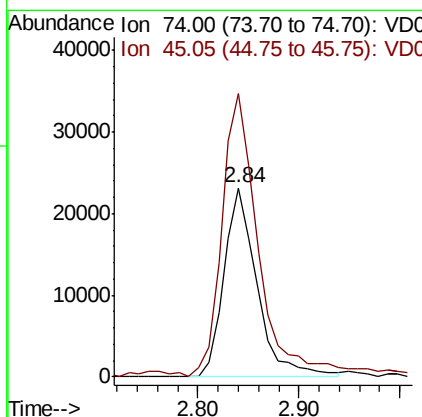
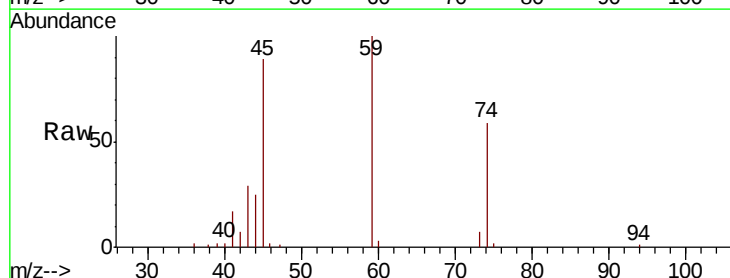
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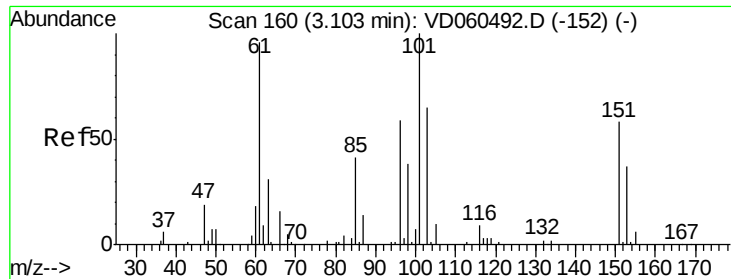


#8

Diethyl Ether
Concen: 20.604 ug/l
RT: 2.84 min Scan# 134
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion: 74 Resp: 52880
Ion Ratio Lower Upper
74 100
45 149.7 86.0 258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.146 ug/l

RT: 3.11 min Scan# 161

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

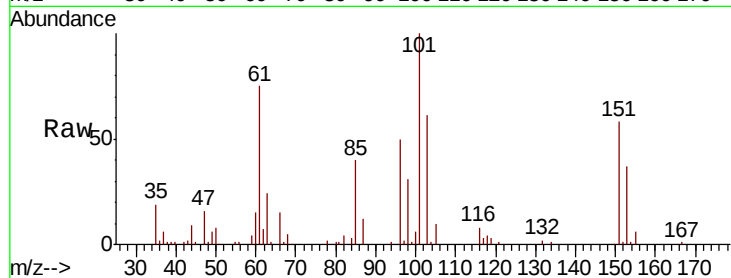
ClientSampleId :

VD1212SBS01

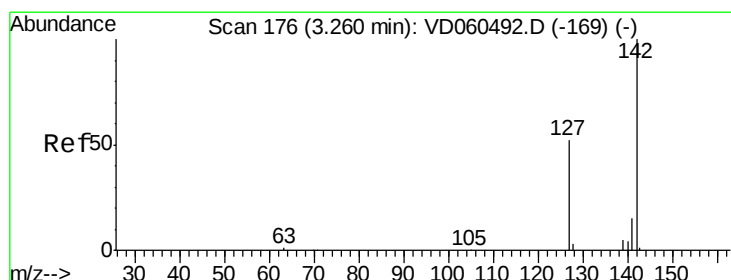
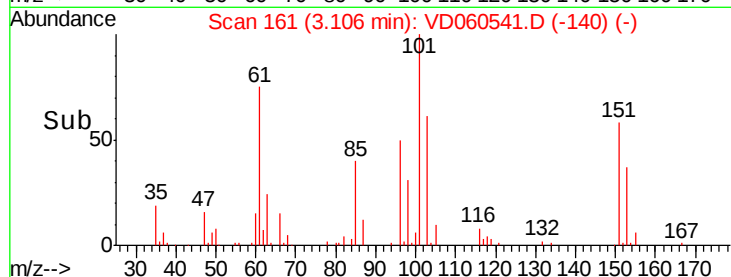
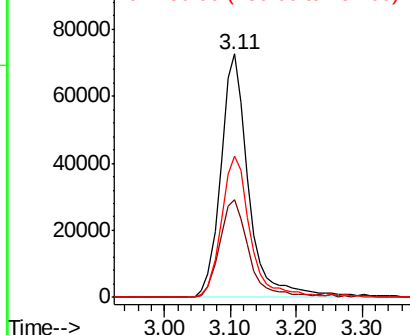
Tot Ion:	101	Resp:	213507
Ion Ratio	Lower	Upper	
101	100		
85	40.2	32.7	49.1
151	57.9	46.6	69.8

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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: 19.983 ug/l

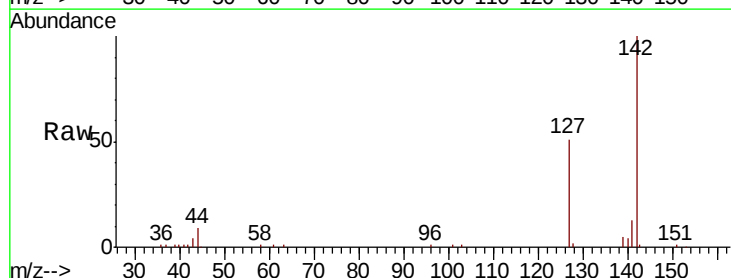
RT: 3.26 min Scan# 177

Delta R.T. 0.00 min

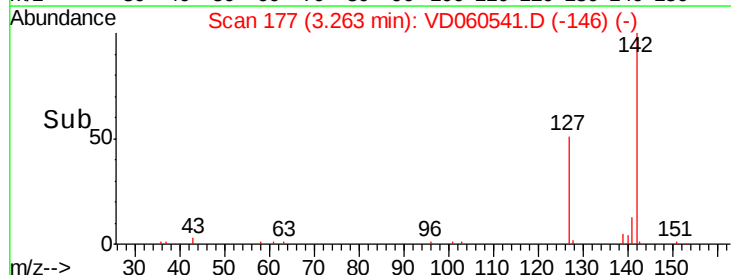
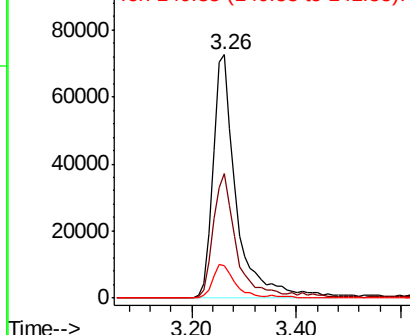
Lab File: VD060541.D

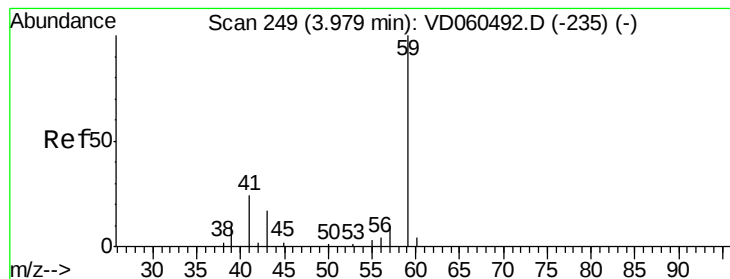
Acq: 12 Dec 2018 12:28

Tgt Ion:	142	Resp:	225197
Ion Ratio	Lower	Upper	
142	100		
127	51.1	41.2	61.8
141	13.5	11.9	17.9



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

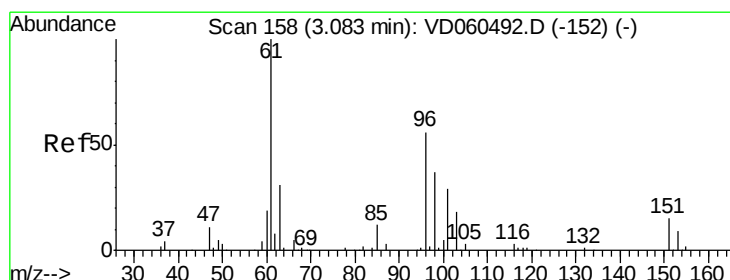
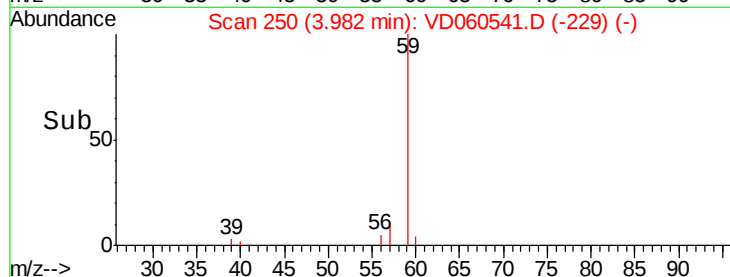
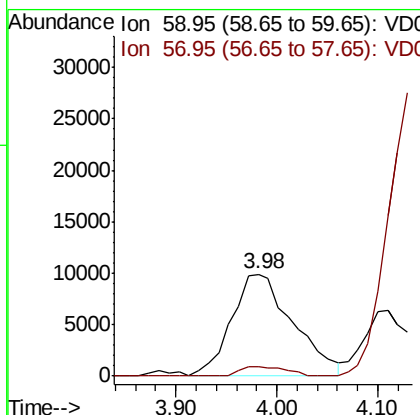
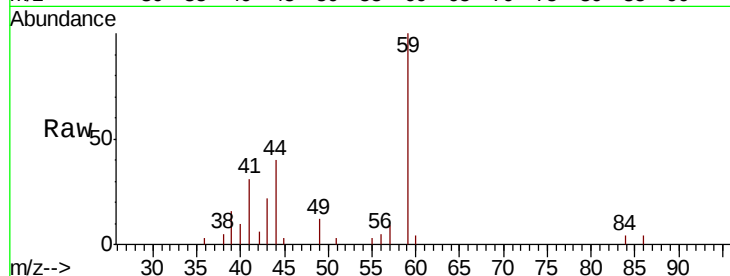
Tert butyl alcohol
Concen: 93.207 ug/l
RT: 3.98 min Scan# 250
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.0	8.1	12.1

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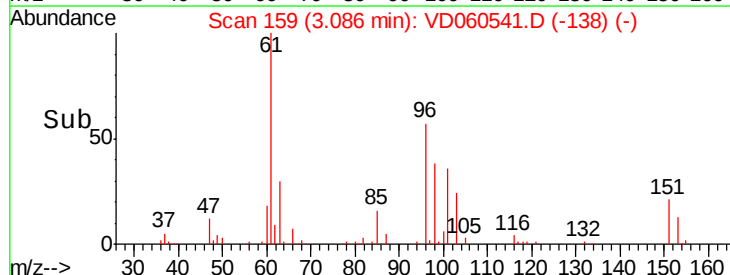
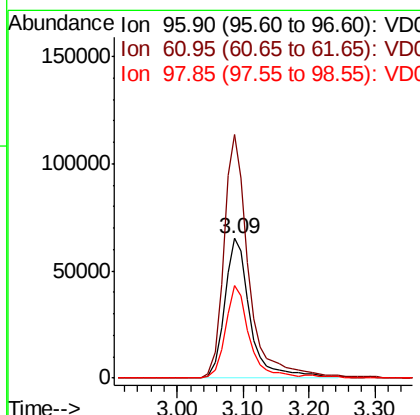
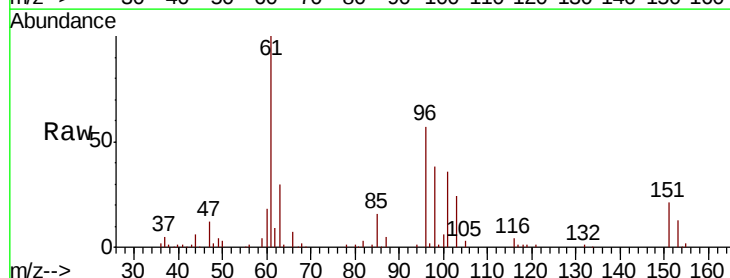
apatel
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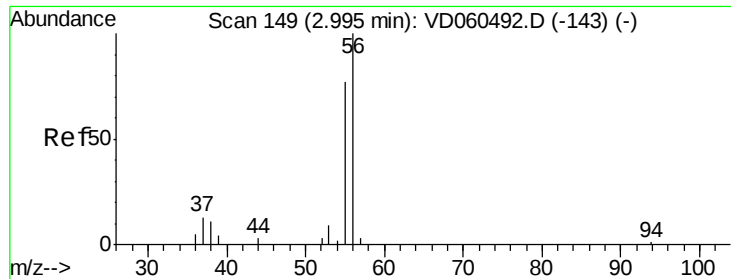


#12

1,1-Dichloroethene
Concen: 22.487 ug/l
RT: 3.09 min Scan# 159
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.7	143.0	214.4
98	66.5	53.4	80.0





#13

Acrolein

Concen: 84.720 ug/l

RT: 3.00 min Scan# 150

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 56 Resp: 41834

Ion Ratio Lower Upper

56 100

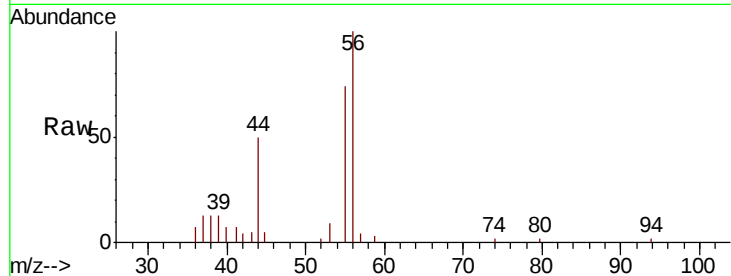
55 73.8 62.0 93.0

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

15000

10000

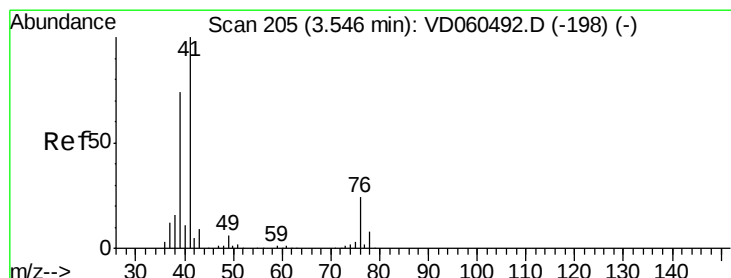
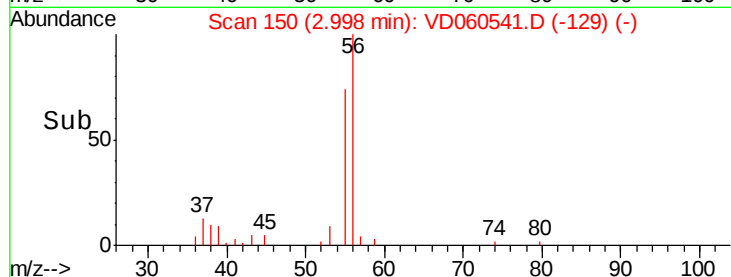
5000

0

Time-->

2.90 3.00 3.10 3.20

3.00



#14

Allyl chloride

Concen: 21.614 ug/l

RT: 3.55 min Scan# 206

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

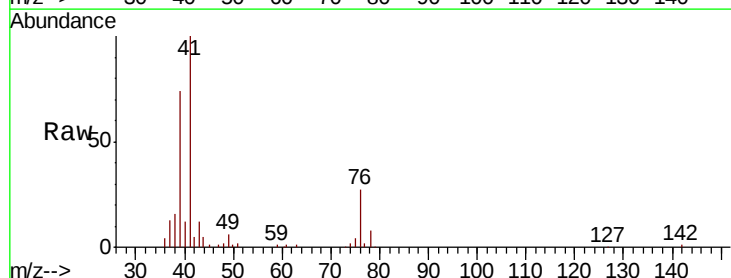
Tgt Ion: 41 Resp: 321674

Ion Ratio Lower Upper

41 100

39 74.4 59.3 88.9

76 26.5 21.0 31.6



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

150000

100000

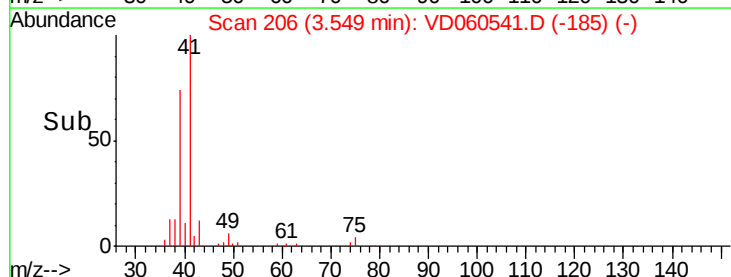
50000

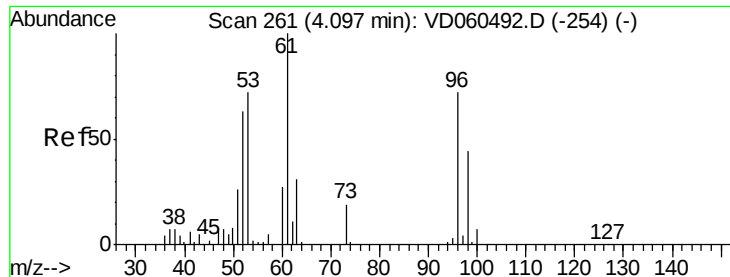
0

Time-->

3.40 3.50 3.60

3.55





#15

Acrylonitrile

Concen: 97.750 ug/l

RT: 4.10 min Scan# 262

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 53 Resp: 250824

Ion Ratio Lower Upper

53 100

52 85.7 70.0 105.0

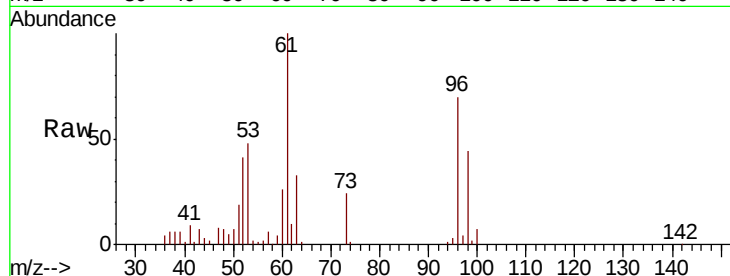
51 39.4 28.8 43.2

Manual Integrations

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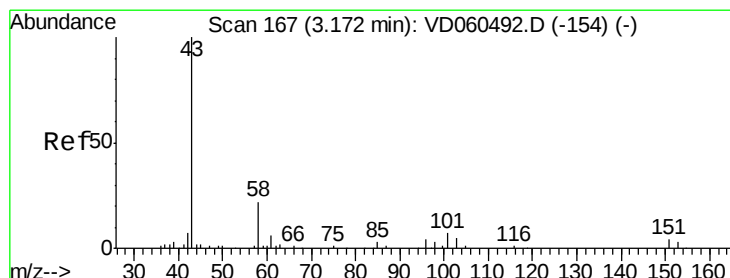
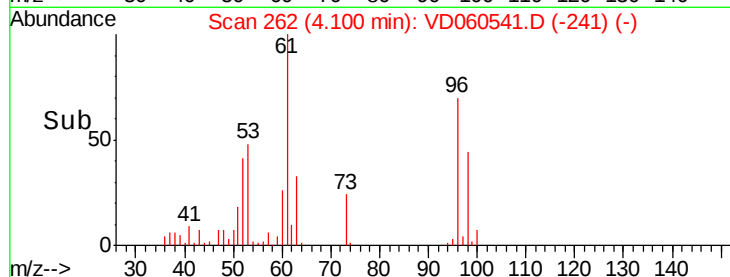
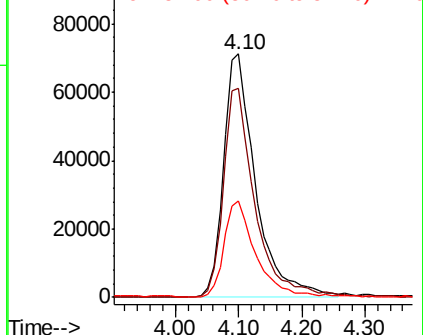
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Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 87.559 ug/l

RT: 3.17 min Scan# 168

Delta R.T. 0.00 min

Lab File: VD060541.D

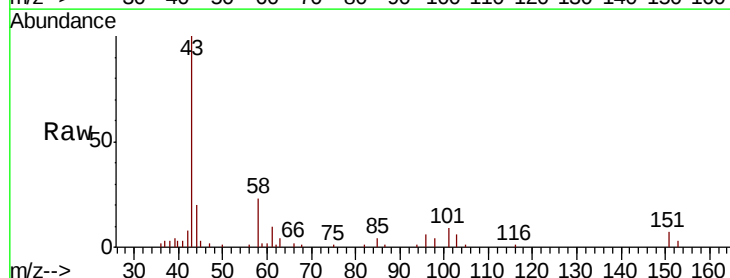
Acq: 12 Dec 2018 12:28

Tgt Ion: 43 Resp: 156115

Ion Ratio Lower Upper

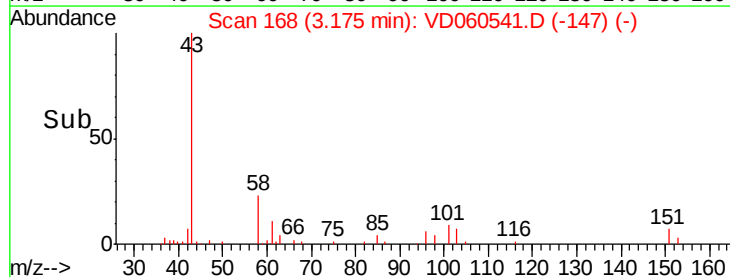
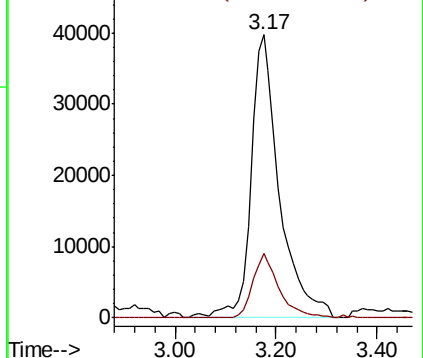
43 100

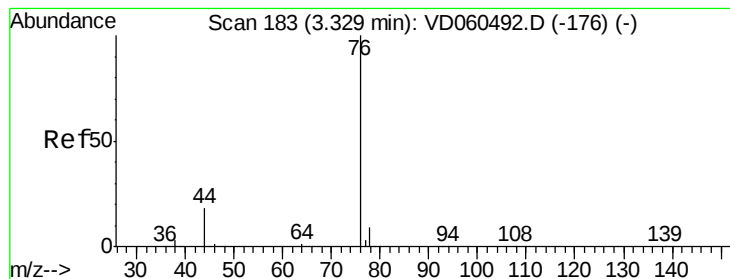
58 22.8 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 21.678 ug/l

RT: 3.33 min Scan# 184

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 76 Resp: 552339

Ion Ratio Lower Upper

76 100

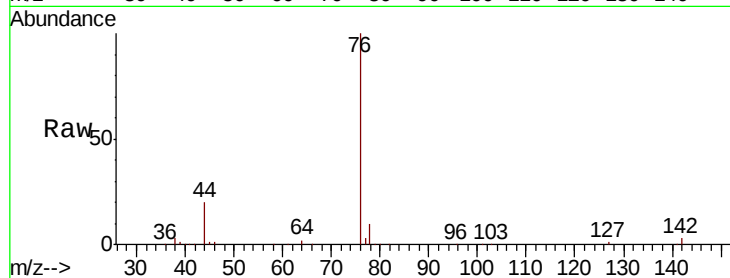
78 9.7 7.0 10.6

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.33

200000

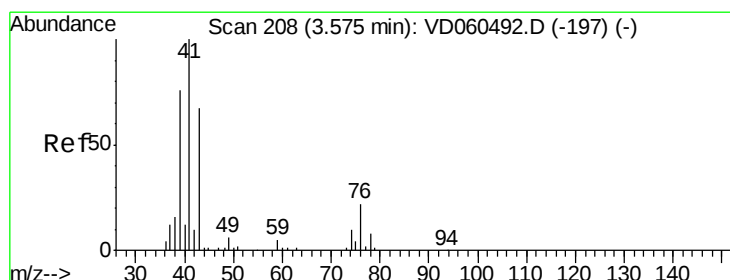
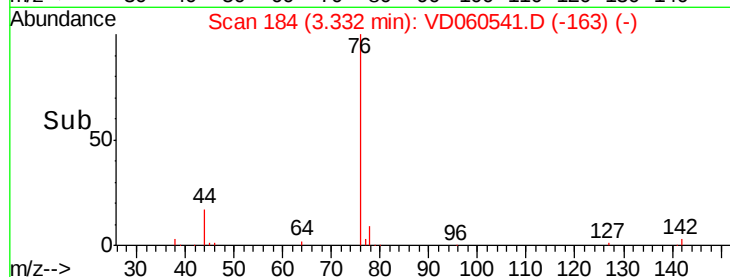
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.327 ug/l

RT: 3.57 min Scan# 208

Delta R.T. -0.01 min

Lab File: VD060541.D

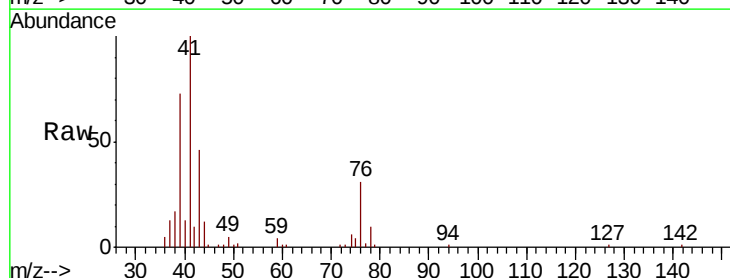
Acq: 12 Dec 2018 12:28

Tgt Ion: 43 Resp: 86136

Ion Ratio Lower Upper

43 100

74 13.7 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.57

30000

25000

20000

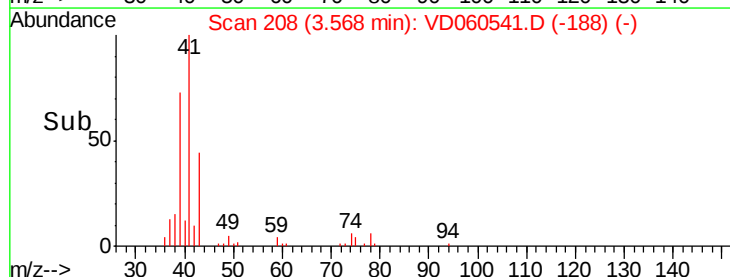
15000

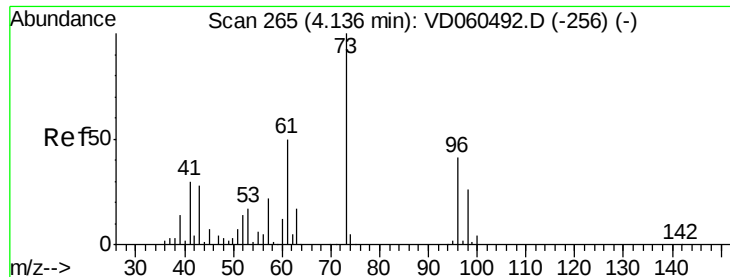
10000

5000

0

Time-->





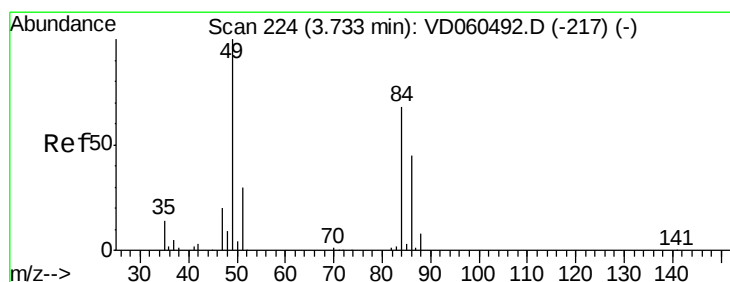
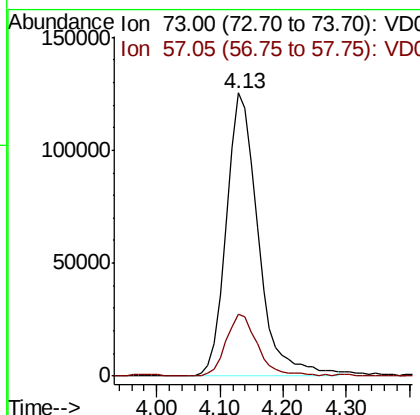
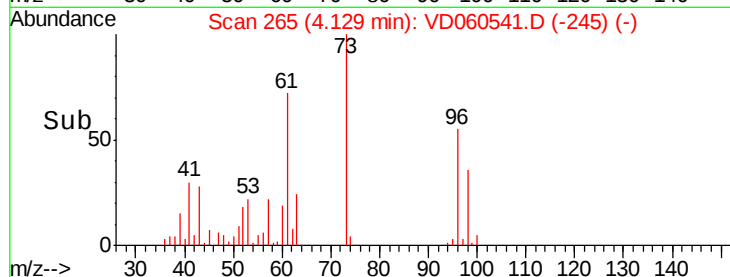
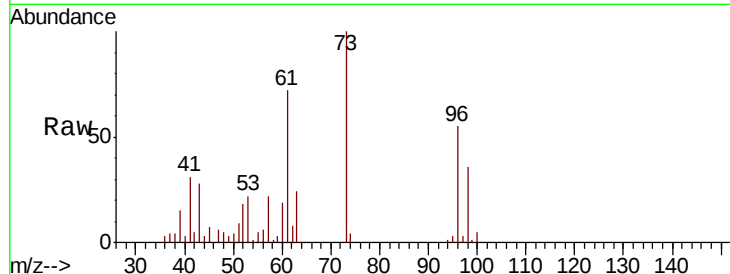
#19
Methyl tert-butyl Ether
Concen: 20.200 ug/l
RT: 4.13 min Scan# 265
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleID :
VD1212SBS01

Tot Ion: 73 Resp: 439403
Ion Ratio Lower Upper
73 100
57 22.0 17.8 26.6

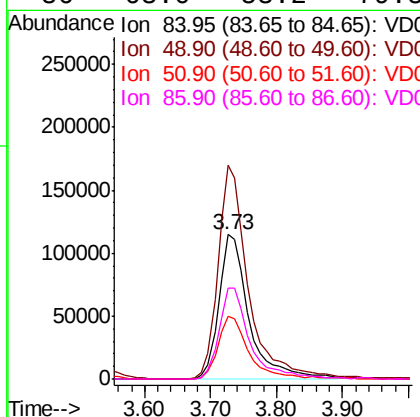
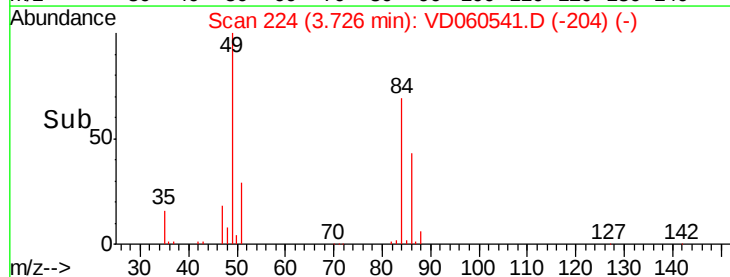
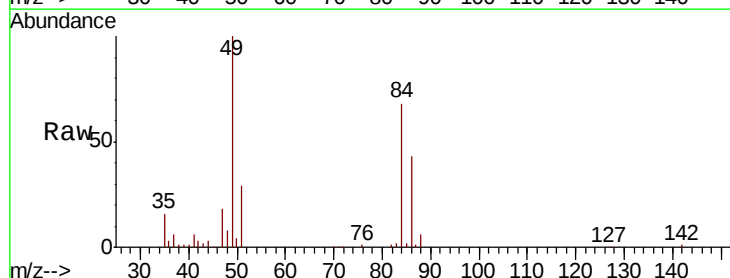
Manual Integrations
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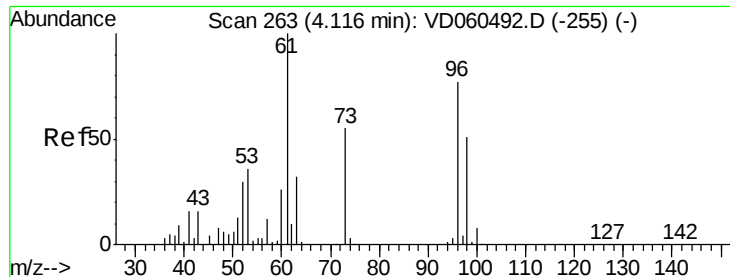
apatel
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#20
Methylene Chloride
Concen: 19.661 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion: 84 Resp: 366310
Ion Ratio Lower Upper
84 100
49 147.9 117.2 175.8
51 43.3 35.3 52.9
86 63.0 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.344 ug/l

RT: 4.11 min Scan# 263

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 96 Resp: 364192

Ion Ratio Lower Upper

96 100

61 134.4 104.2 156.4

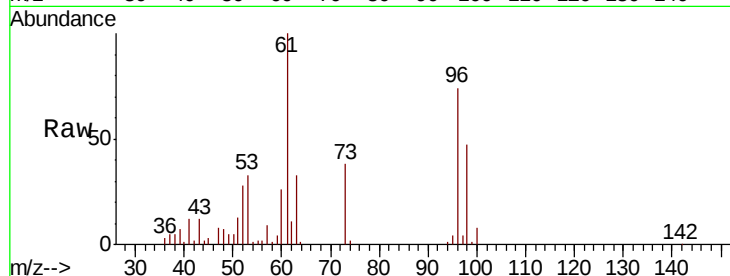
98 63.4 52.8 79.2

Manual Integrations

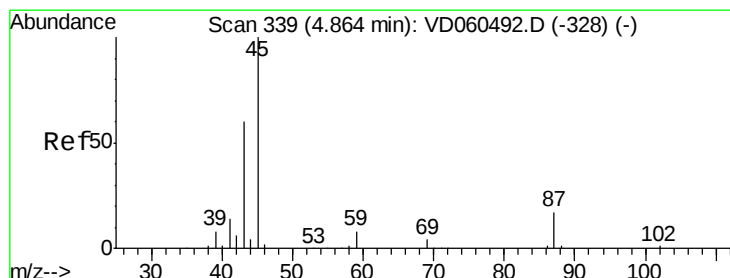
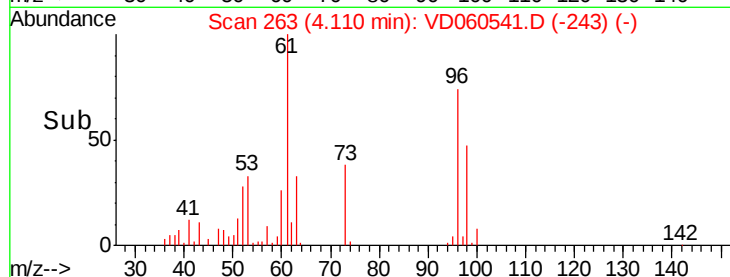
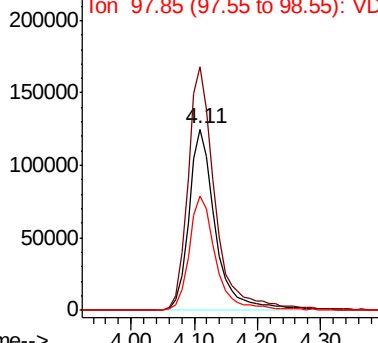
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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 20.178 ug/l

RT: 4.86 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Tgt Ion: 45 Resp: 1078188

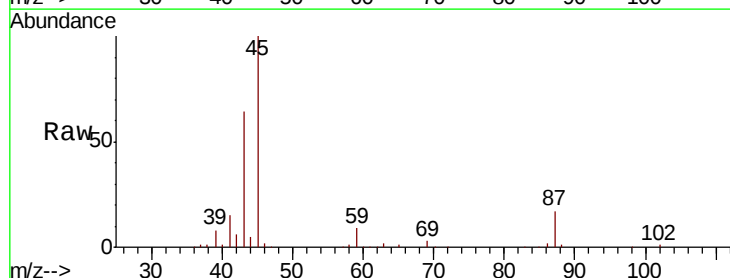
Ion Ratio Lower Upper

45 100

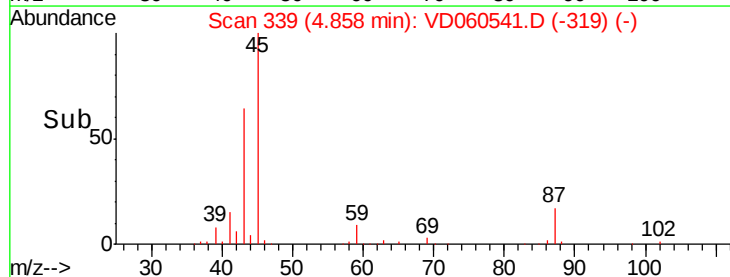
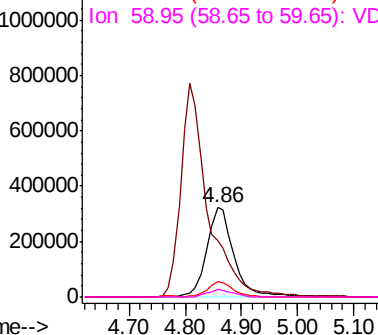
43 63.9 48.6 73.0

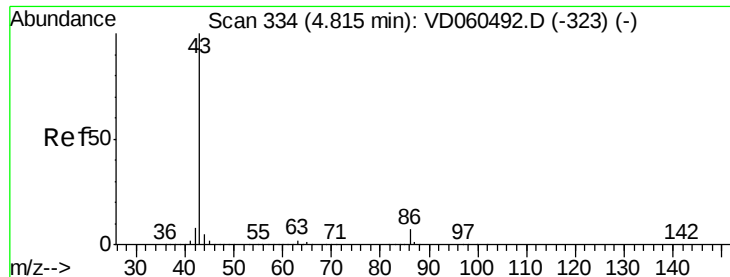
87 16.8 14.0 21.0

59 8.8 6.9 10.3



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 98.482 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 43 Resp: 2607225

Ion Ratio Lower Upper

43 100

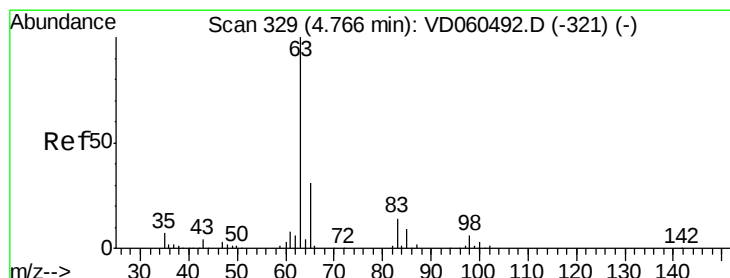
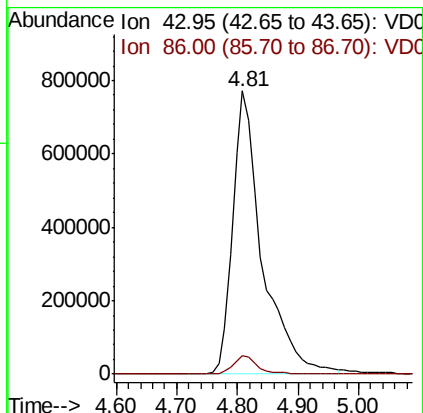
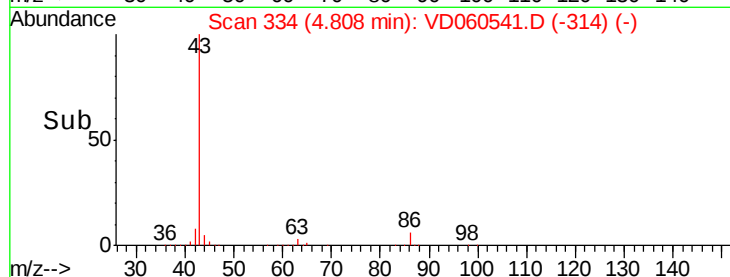
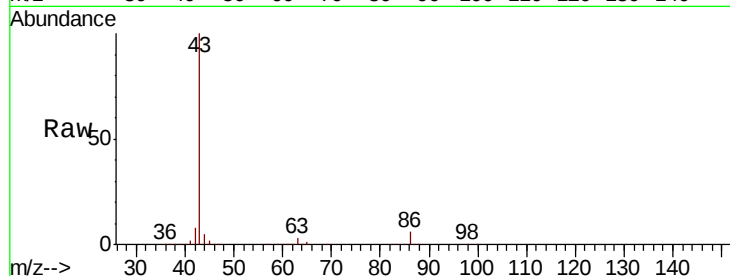
86 6.4 5.5 8.3

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 21.303 ug/l

RT: 4.76 min Scan# 329

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

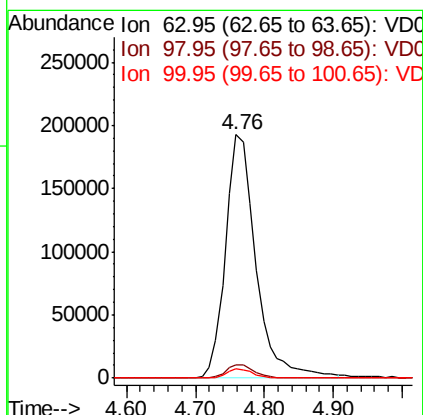
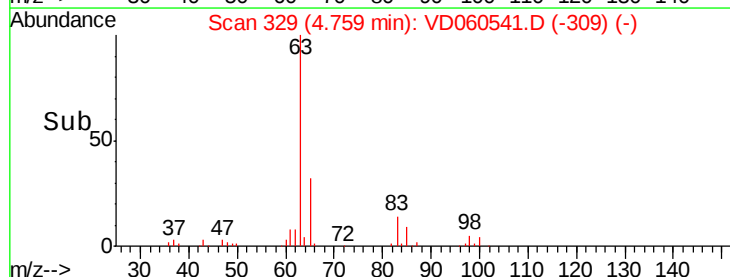
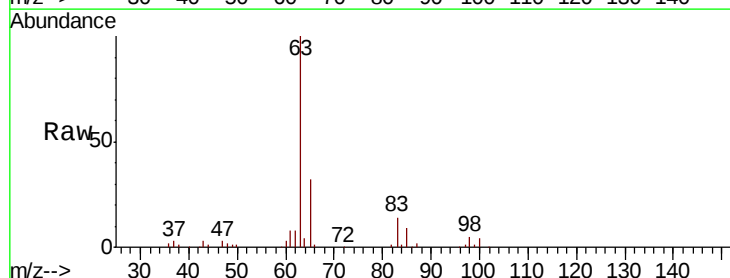
Tgt Ion: 63 Resp: 591357

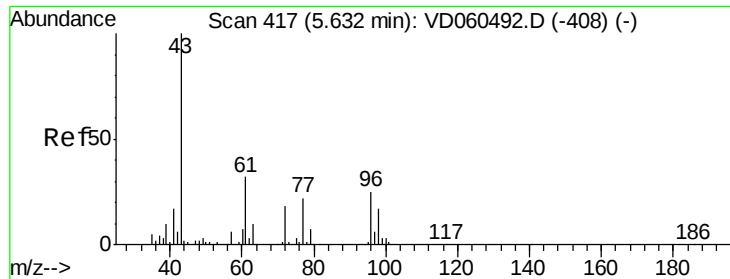
Ion Ratio Lower Upper

63 100

98 5.4 2.8 8.3

100 3.7 1.7 5.1





#25

2-Butanone

Concen: 92.514 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 43 Resp: 324524

Ion Ratio Lower Upper

43 100

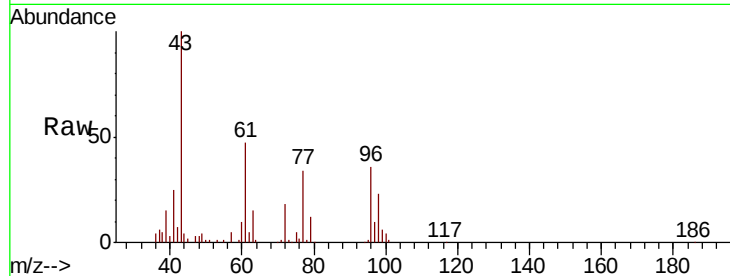
72 17.9 14.6 21.8

Manual Integrations

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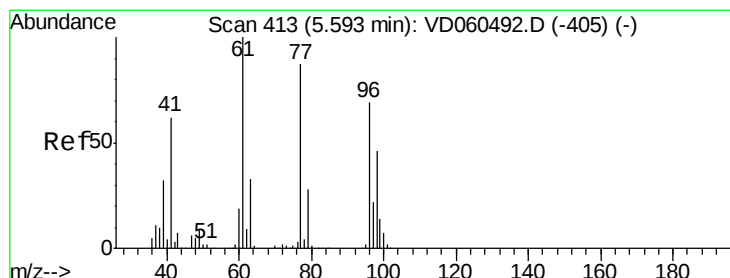
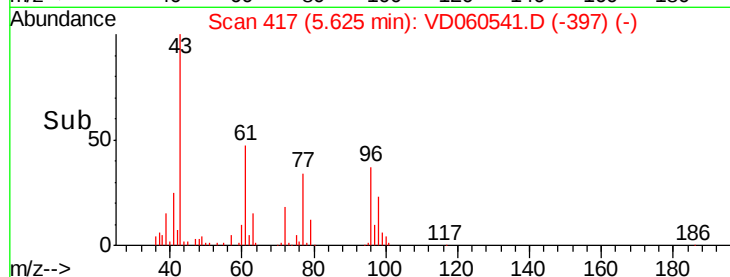
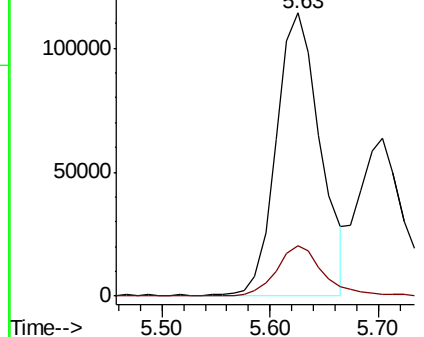
apatel

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.860 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.00 min

Lab File: VD060541.D

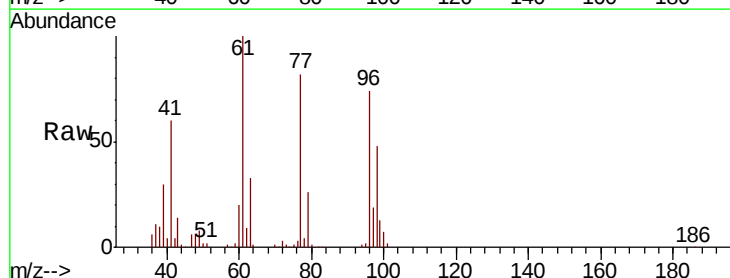
Acq: 12 Dec 2018 12:28

Tgt Ion: 77 Resp: 490216

Ion Ratio Lower Upper

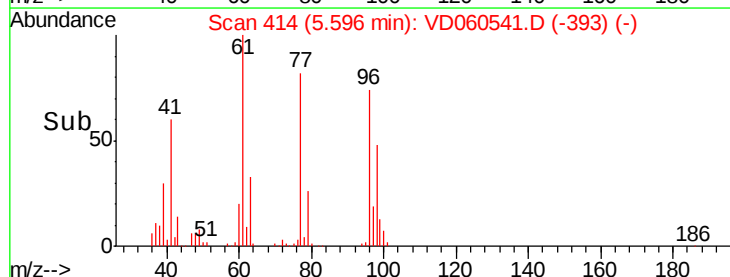
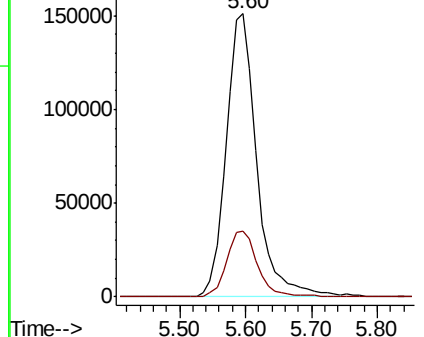
77 100

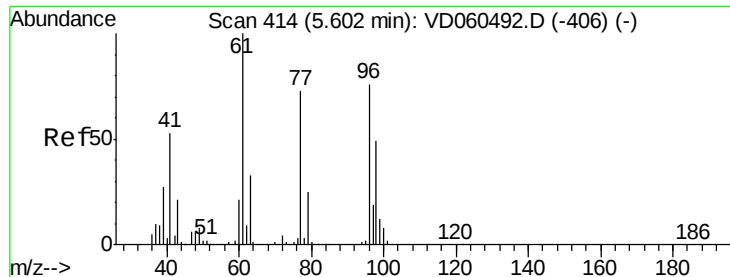
97 23.5 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

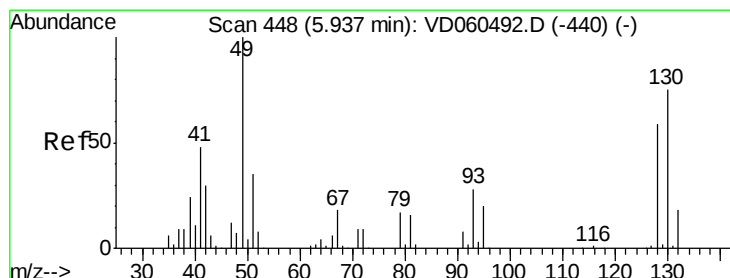
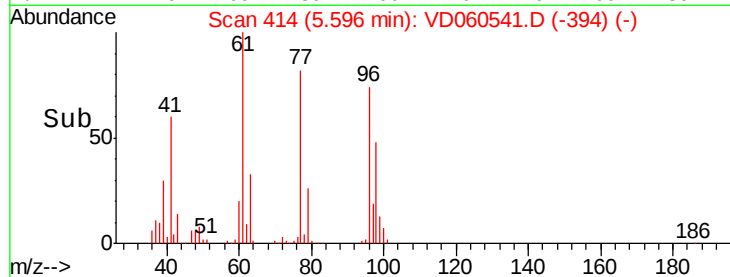
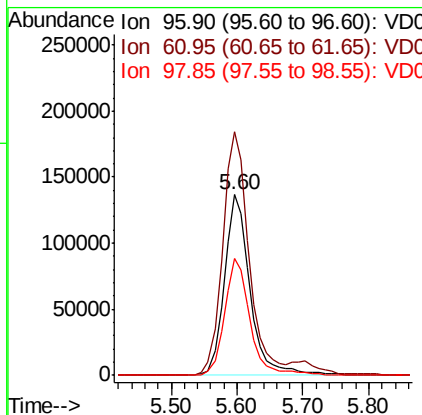
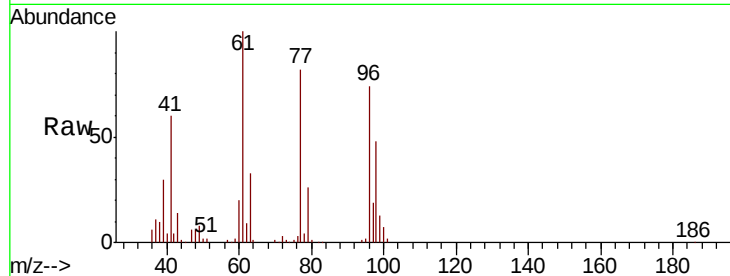
cis-1,2-Dichloroethene
Concen: 21.394 ug/l
RT: 5.60 min Scan# 414
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	371166		
61	134.7	0.0	263.6	
98	64.8	0.0	128.2	

Manual Integrations
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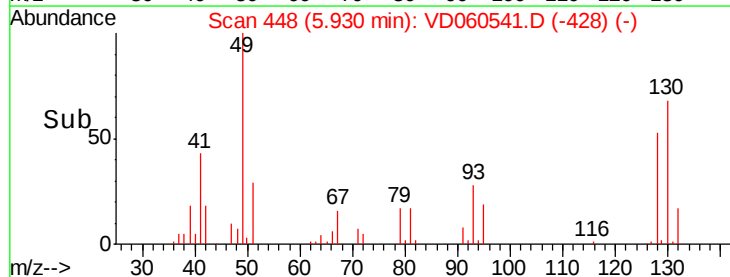
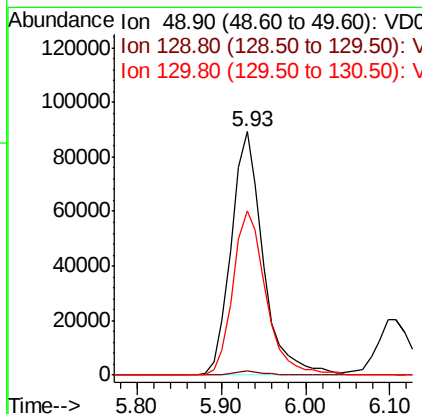
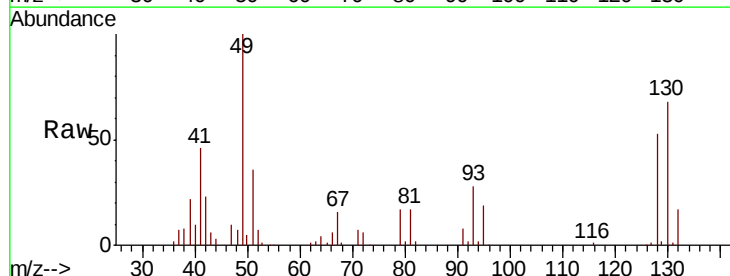
apatel
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#28

Bromochloromethane
Concen: 19.199 ug/l
RT: 5.93 min Scan# 448
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	236094		
129	1.5	0.0	3.4	
130	67.6	59.8	89.6	





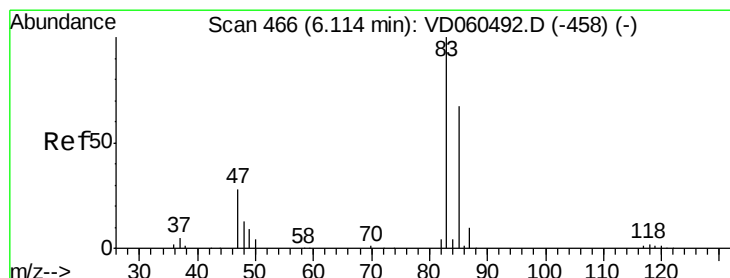
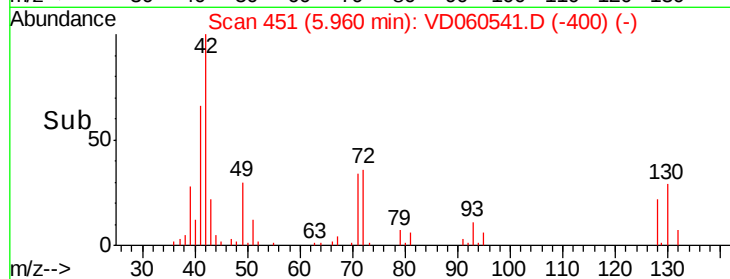
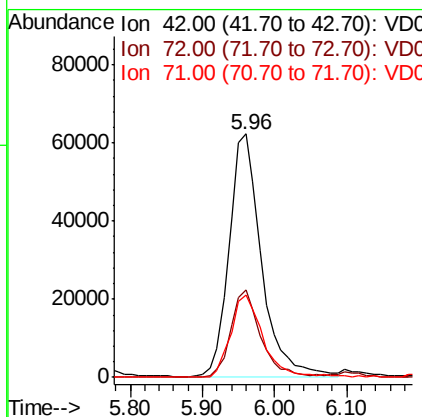
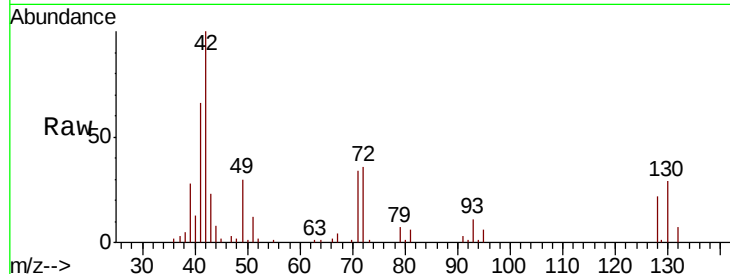
#29
Tetrahydrofuran
Concen: 98.739 ug/l
RT: 5.96 min Scan# 451
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.1	28.0	42.0
71	33.7	27.2	40.8

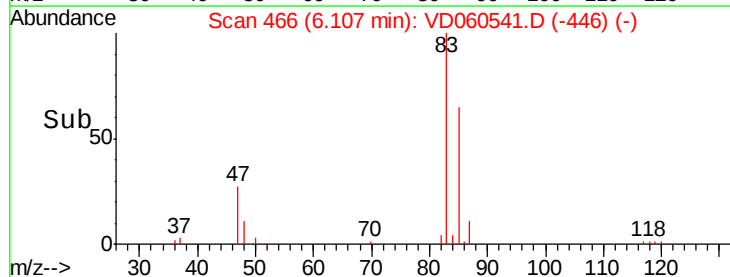
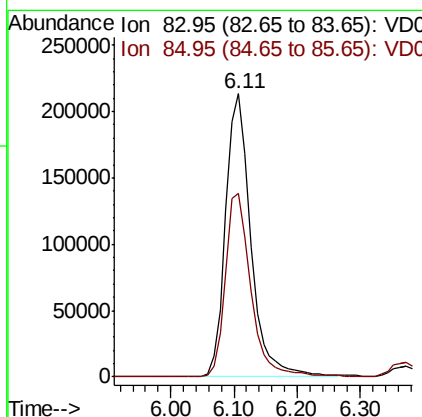
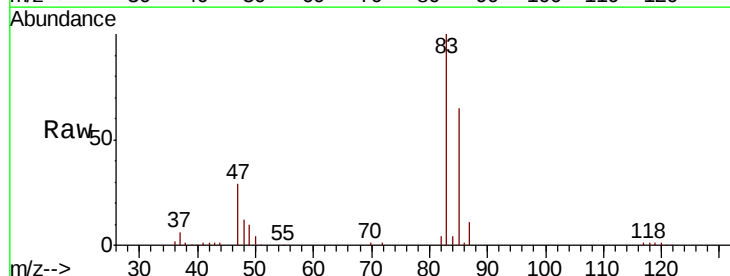
Manual Integrations
APPROVED

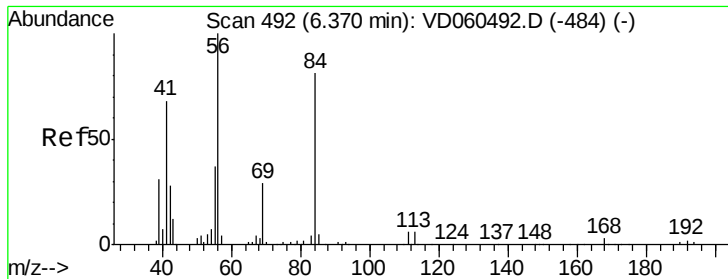
apatel
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#30
Chloroform
Concen: 21.151 ug/l
RT: 6.11 min Scan# 466
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	53.4	80.2





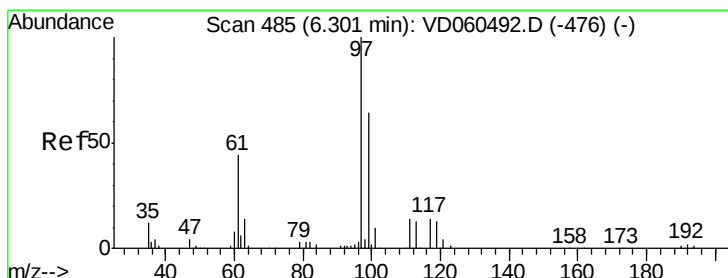
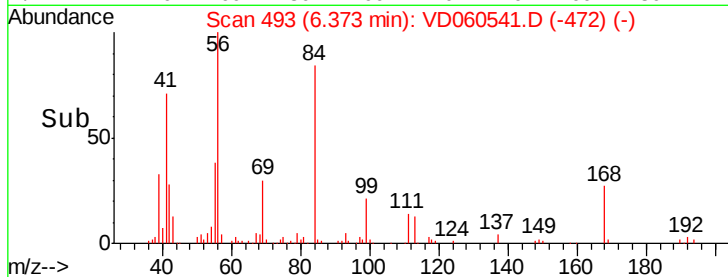
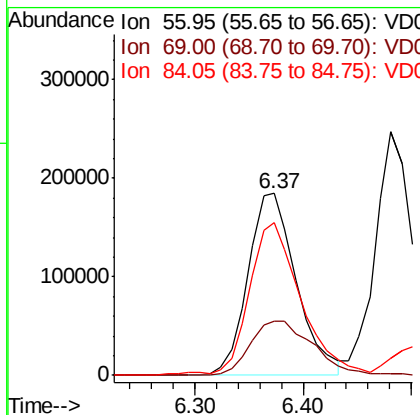
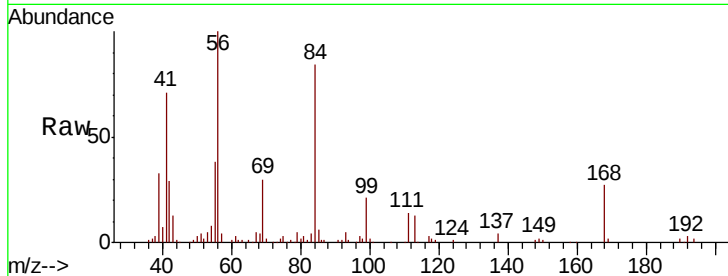
#31
Cyclohexane
Concen: 22.022 ug/l
RT: 6.37 min Scan# 493
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.5	22.8	34.2
84	83.8	65.1	97.7

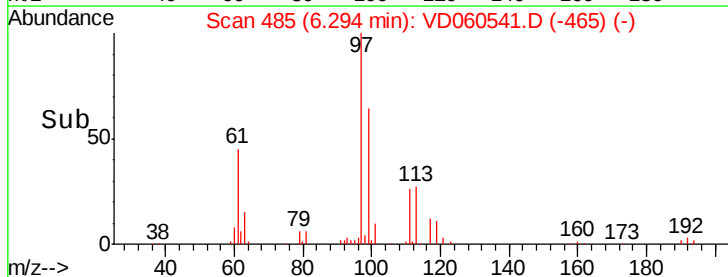
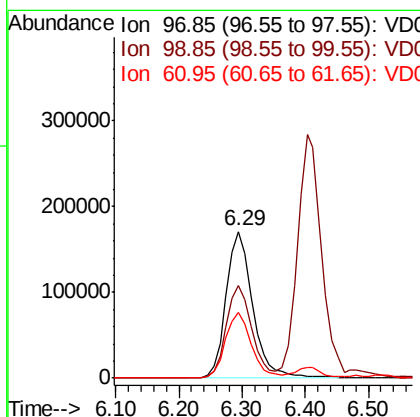
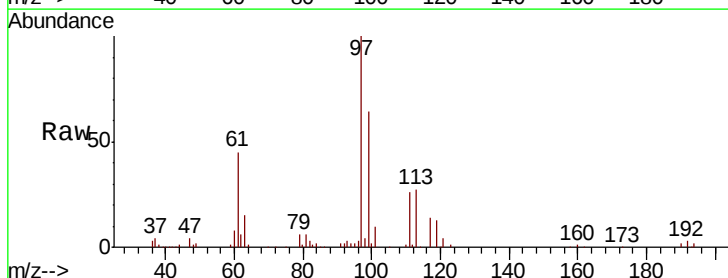
Manual Integrations
APPROVED

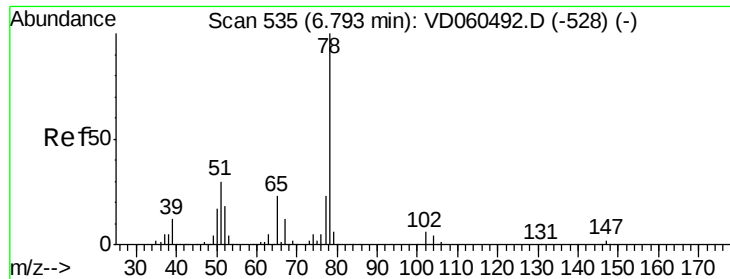
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#32
1,1,1-Trichloroethane
Concen: 21.673 ug/l
RT: 6.29 min Scan# 485
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.0	76.4
61	44.9	35.3	52.9





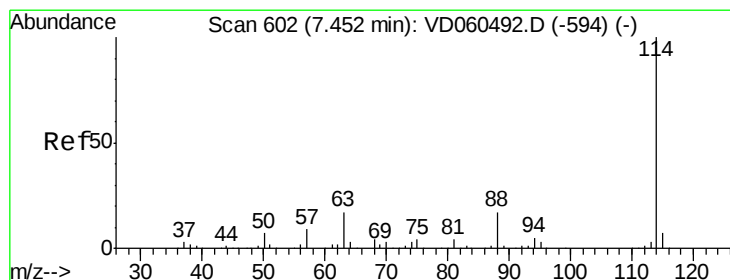
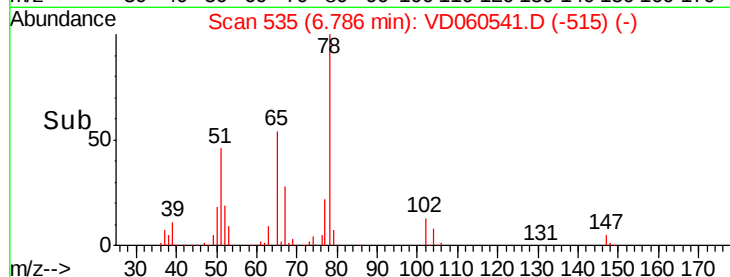
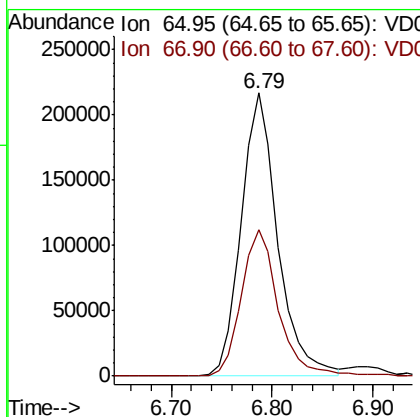
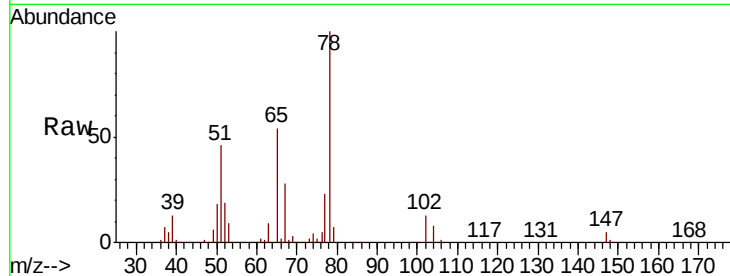
#33
 1,2-Dichloroethane-d4
 Concen: 21.673 ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleID :
 VD1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.7	0.0	106.8	

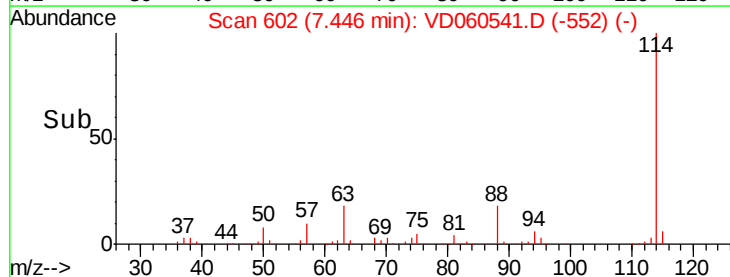
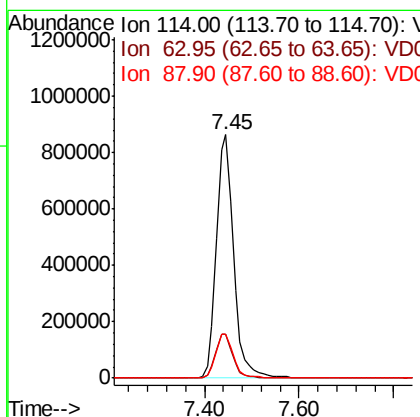
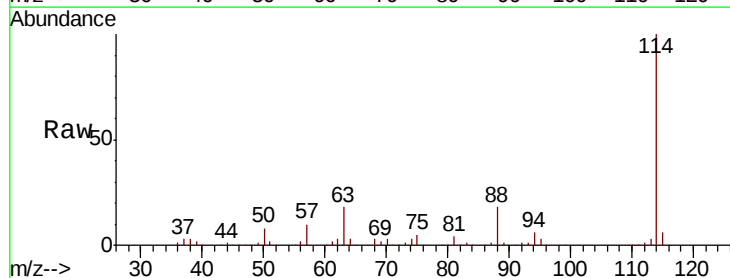
Manual Integrations
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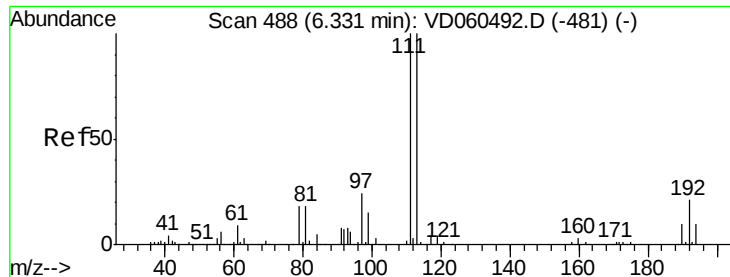
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.0	0.0	34.2	
88	18.3	0.0	35.0	





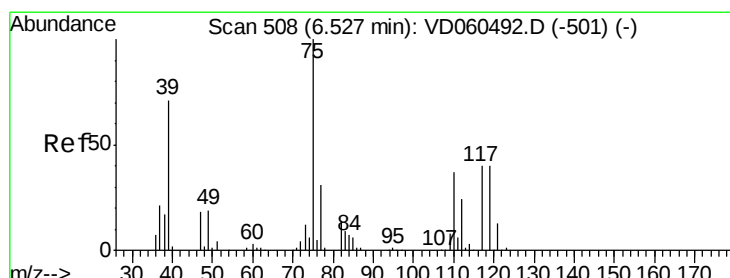
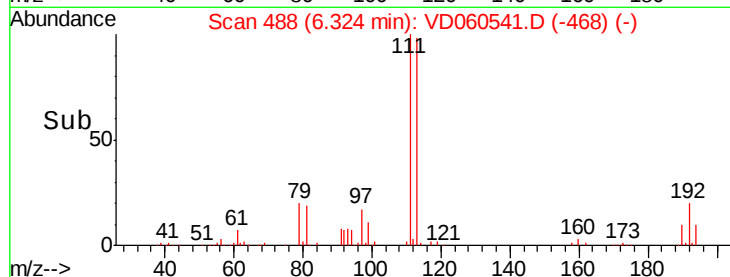
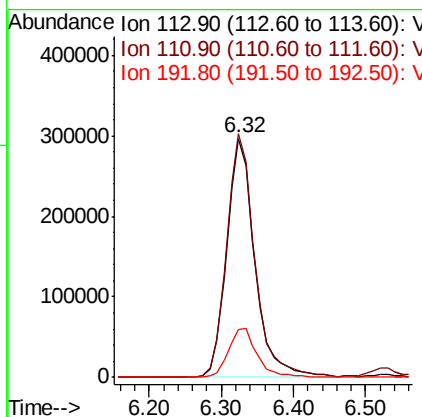
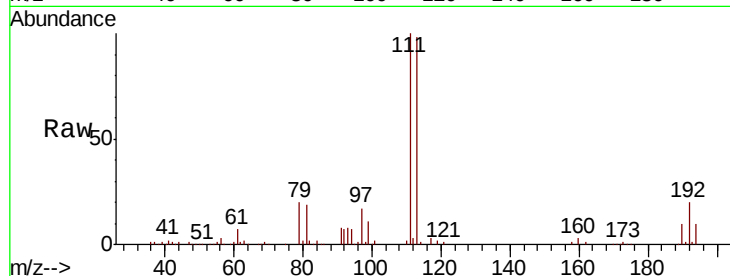
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.32 min Scan# 488
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	802773		
111	102.0		80.2	120.4
192	20.2		16.6	24.8

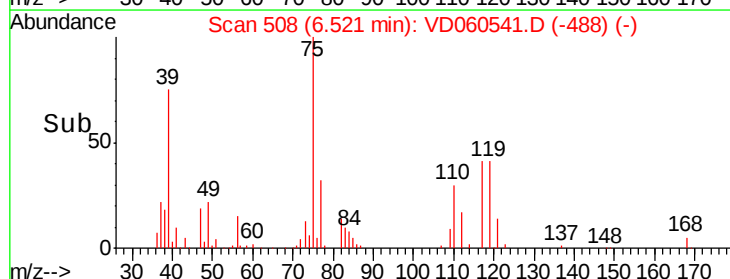
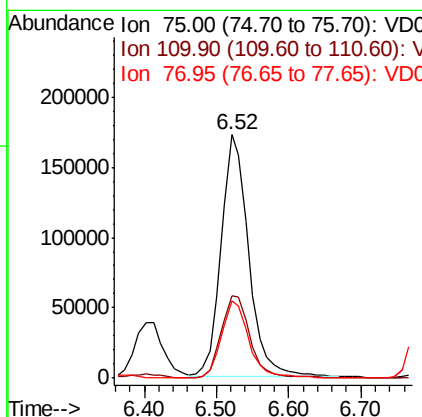
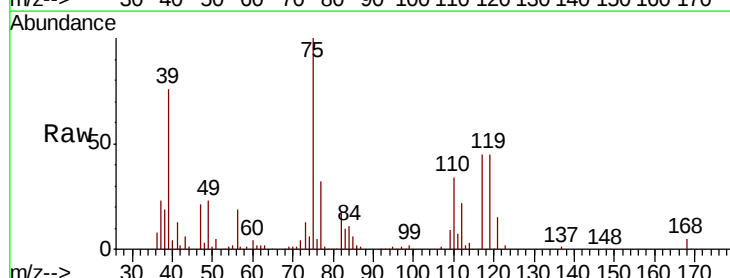
Manual Integrations
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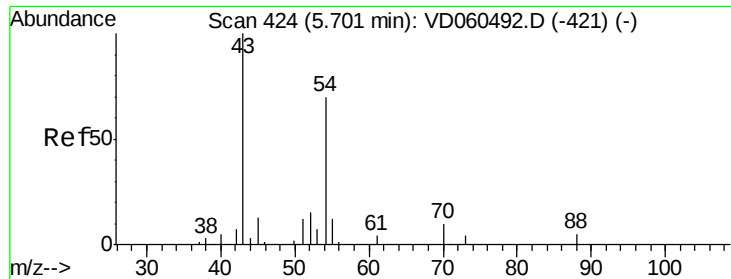
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#36
1,1-Dichloropropene
Concen: 21.414 ug/l
RT: 6.52 min Scan# 508
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	455582		
110	34.0		18.3	54.8
77	31.8		24.6	37.0





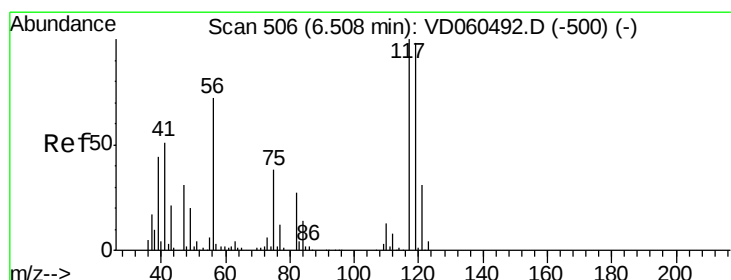
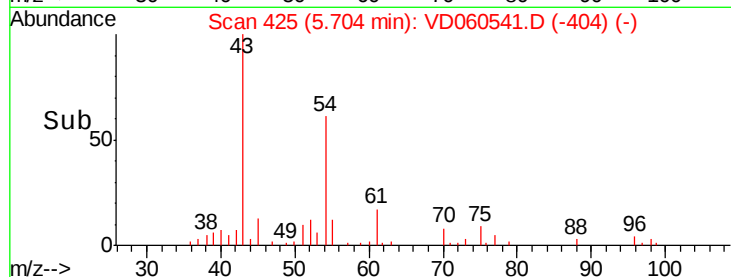
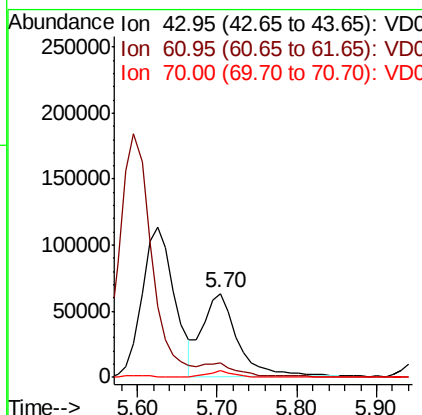
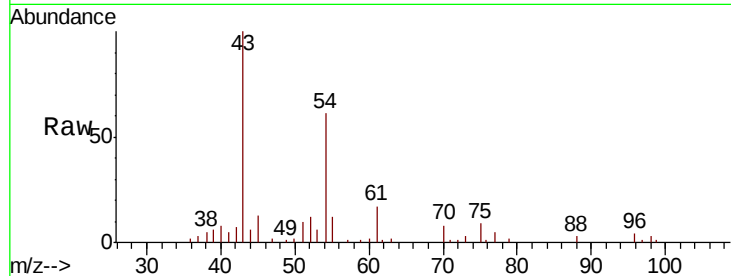
#37
Ethyl Acetate
Concen: 20.576 ug/l
RT: 5.70 min Scan# 425
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleID :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	12.4	18.6
70	7.6	5.4	8.0

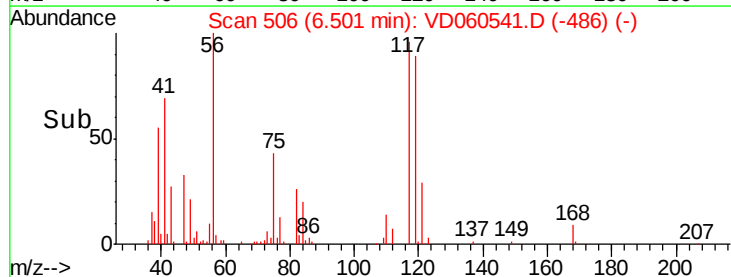
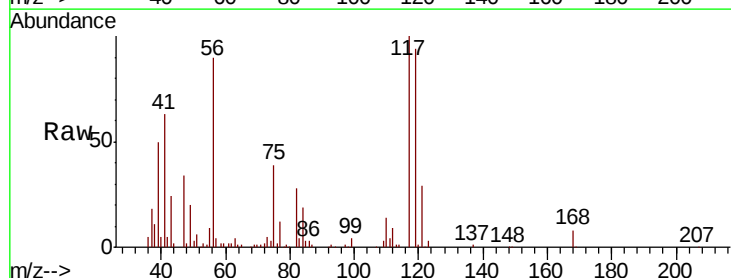
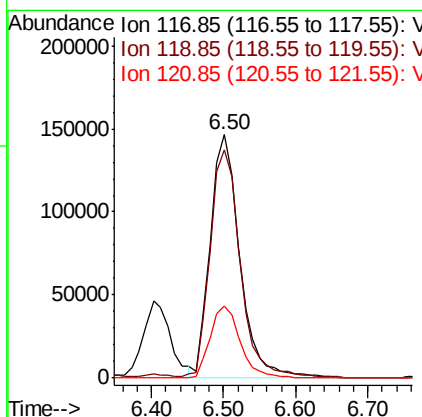
Manual Integrations
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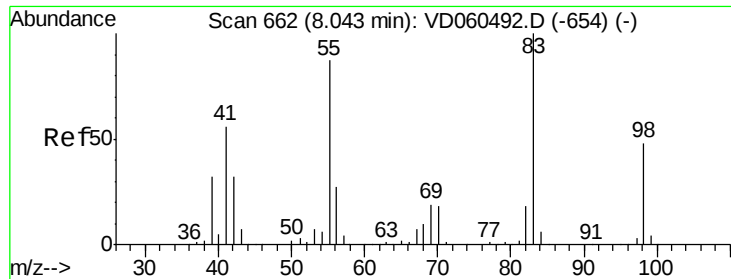
apatel
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#38
Carbon Tetrachloride
Concen: 21.394 ug/l
RT: 6.50 min Scan# 506
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.8	115.2
121	29.5	24.4	36.6





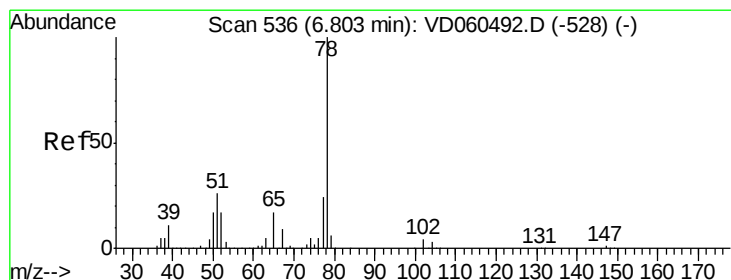
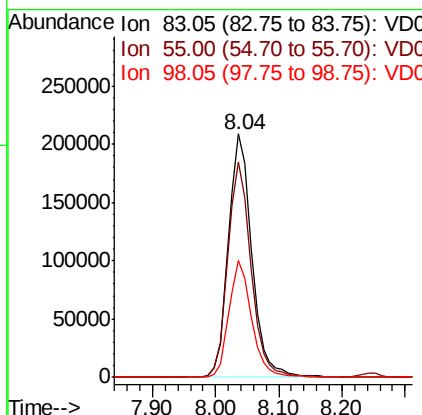
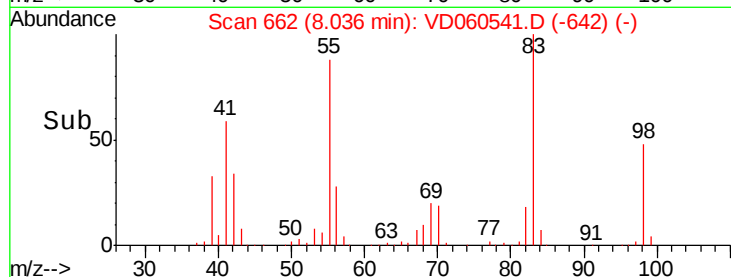
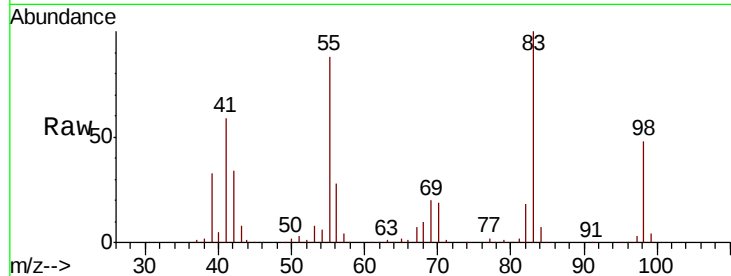
#39
Methvlcvclohexane
Concen: 22.055 ug/l
RT: 8.04 min Scan# 662
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.4	69.8	104.8
98	47.9	38.4	57.6

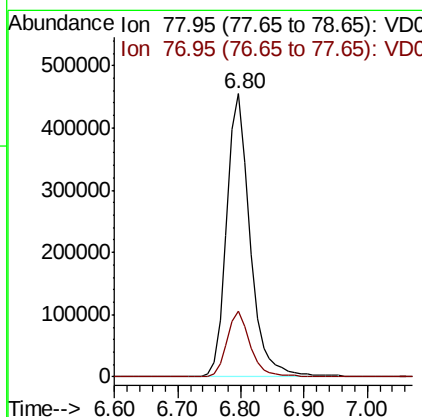
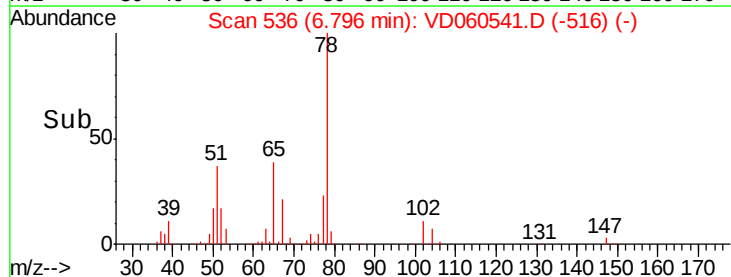
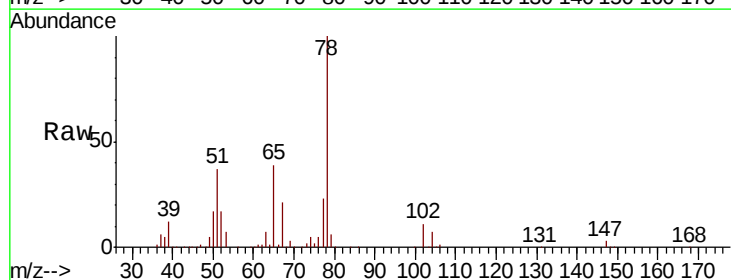
Manual Integrations
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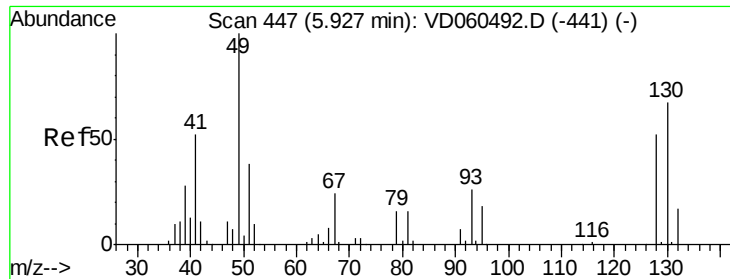
apatel
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#40
Benzene
Concen: 21.517 ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3





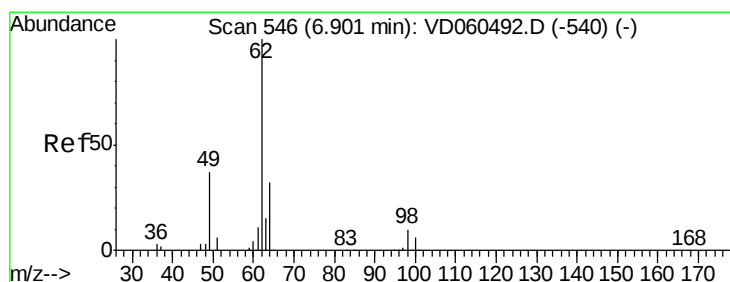
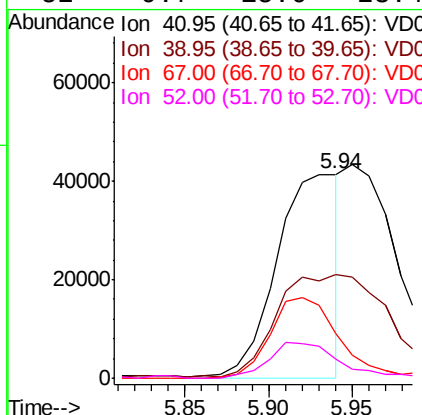
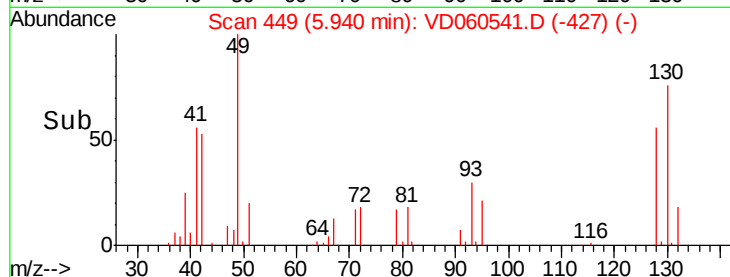
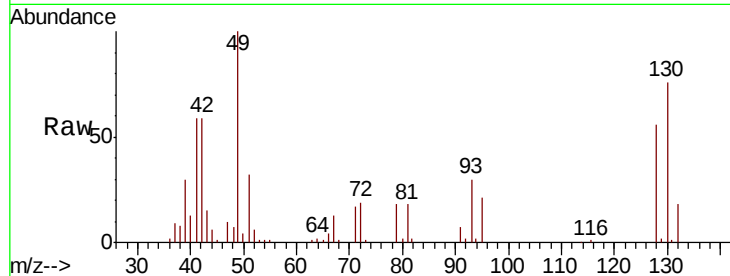
#41
Methacrylonitrile
Concen: 21.942 ug/l m
RT: 5.94 min Scan# 449
Delta R.T. 0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	50.9	42.6	63.8
67	21.8	36.2	54.4#
52	9.7	15.6	23.4#

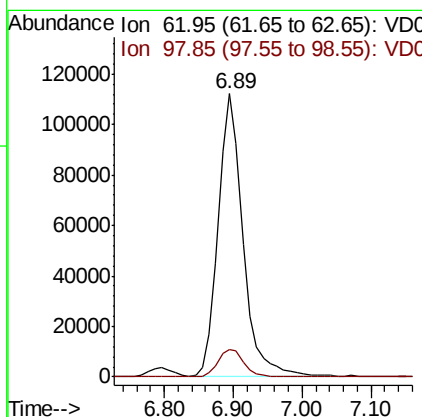
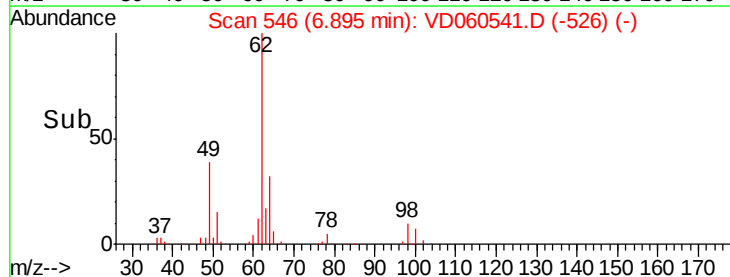
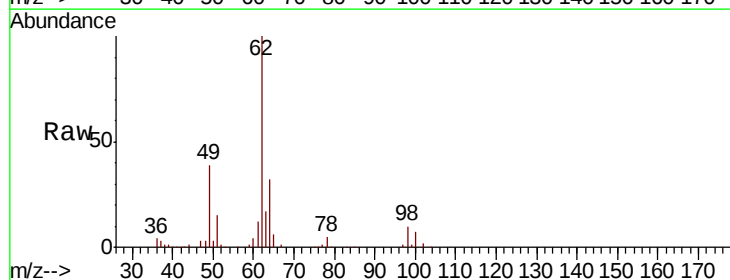
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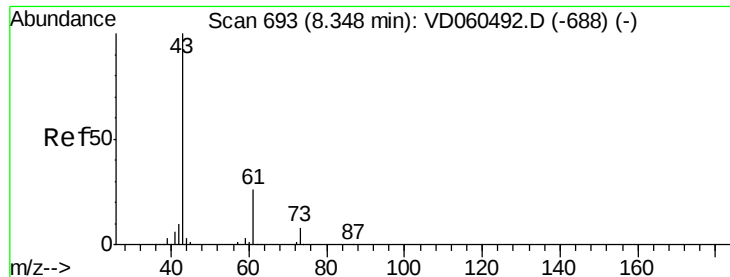
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#42
1,2-Dichloroethane
Concen: 20.331 ug/l
RT: 6.89 min Scan# 546
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.2





#43

Isopropyl Acetate

Concen: 19.271 ug/l

RT: 8.34 min Scan# 693

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

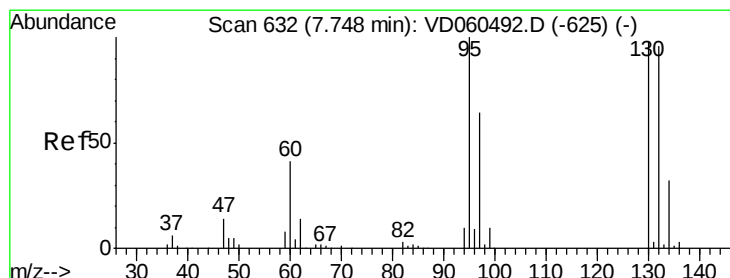
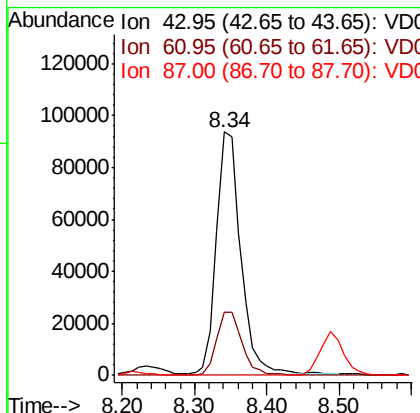
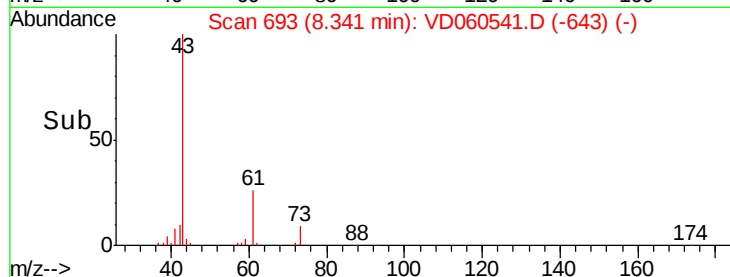
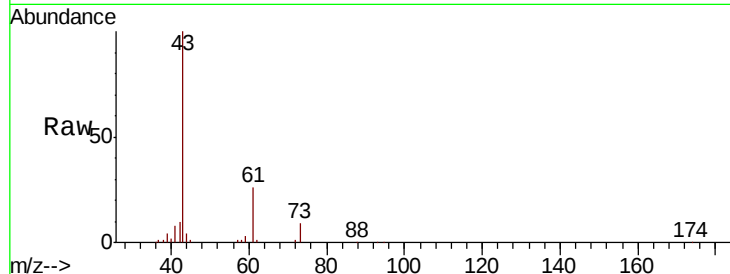
ClientSampleId :

VD1212SBS01

Tot Ion:	43	Resp:	219481
Ion	Ratio	Lower	Upper
43	100		
61	25.7	21.0	31.4
87	0.0	0.2	0.2#

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#44

Trichloroethene

Concen: 20.980 ug/l

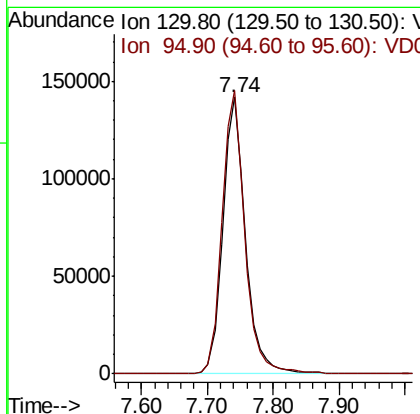
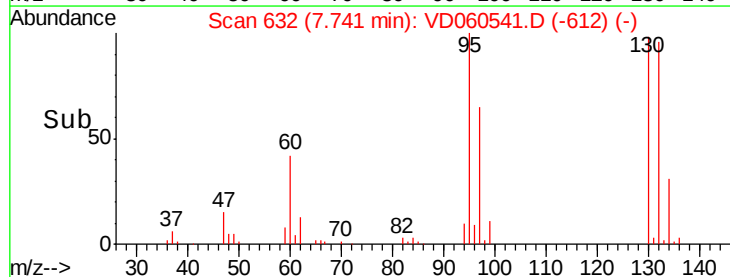
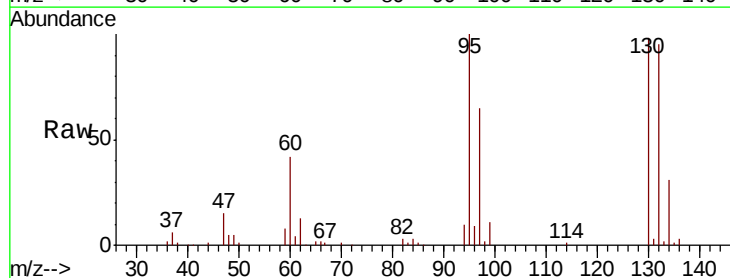
RT: 7.74 min Scan# 632

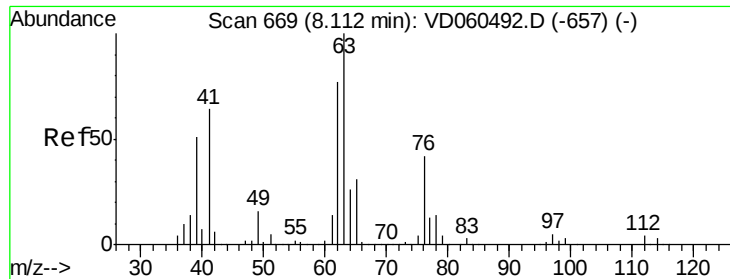
Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Tgt Ion:	130	Resp:	340905
Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	203.8





#45

1,2-Dichloropropane

Concen: 21.217 ug/l

RT: 8.11 min Scan# 669

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 63 Resp: 285309

Ion Ratio Lower Upper

63 100

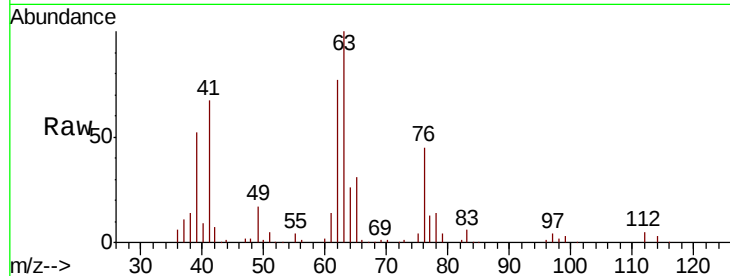
65 31.1 24.6 37.0

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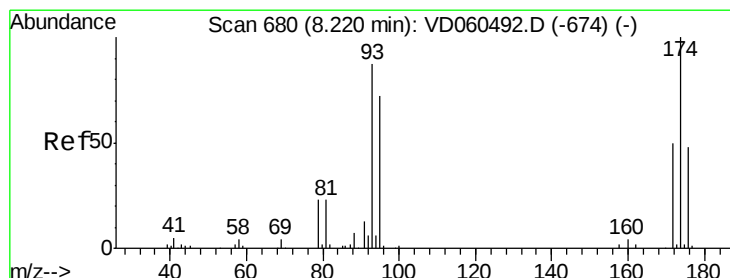
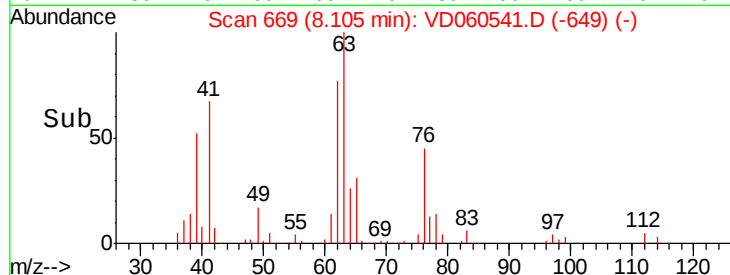
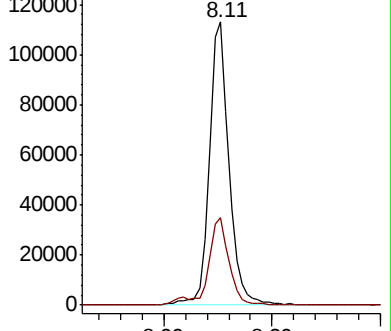
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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 19.759 ug/l

RT: 8.21 min Scan# 680

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

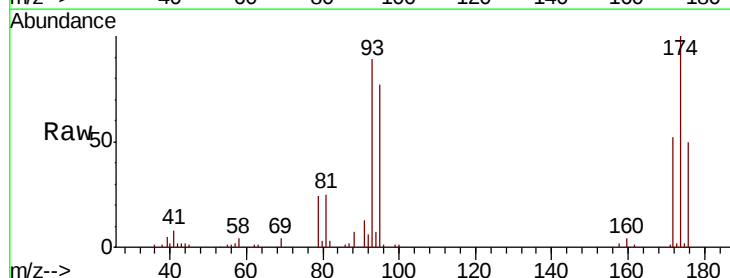
Tgt Ion: 93 Resp: 153519

Ion Ratio Lower Upper

93 100

95 86.5 65.6 98.4

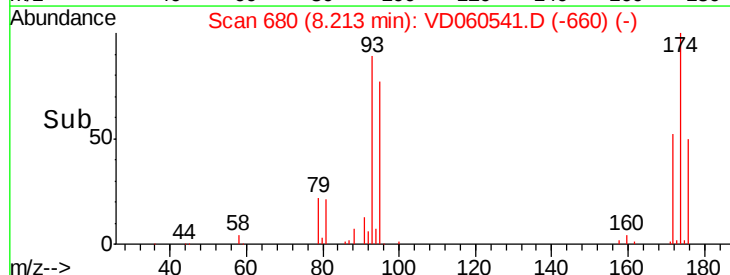
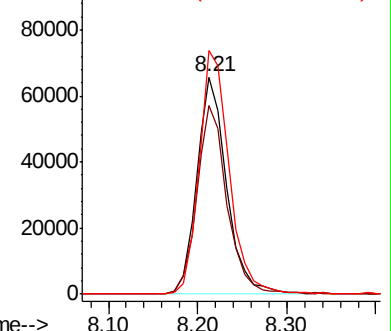
174 112.0 91.7 137.5

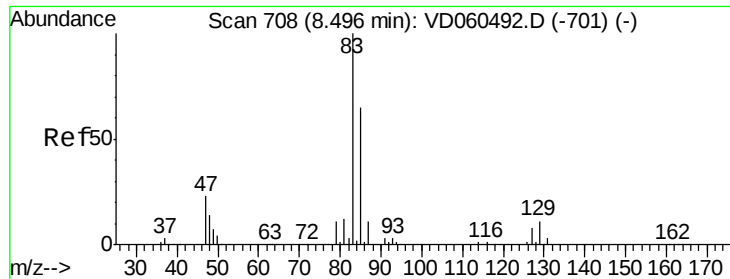


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





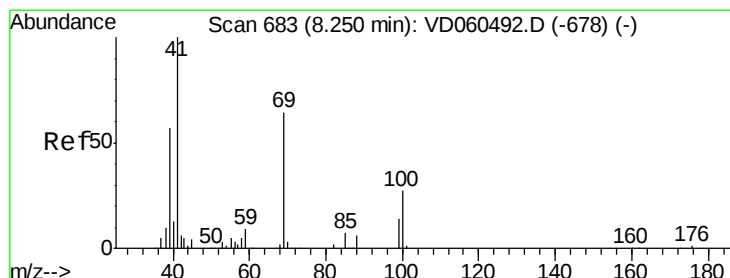
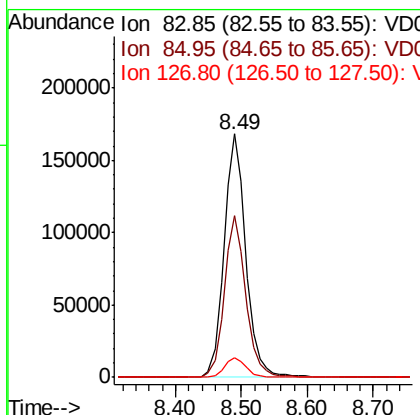
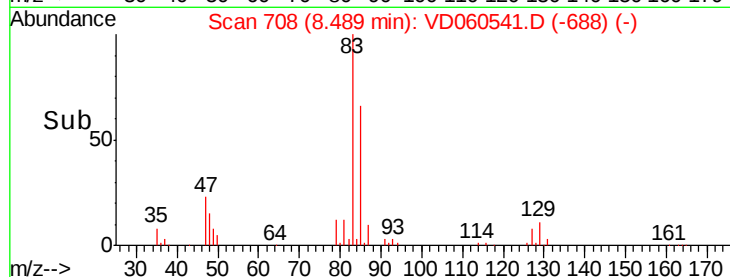
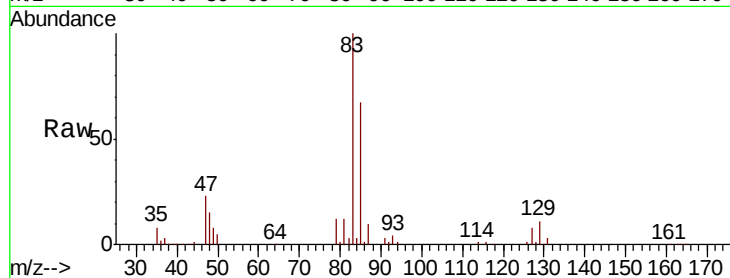
#47
Bromodichloromethane
Concen: 21.011 ug/l
RT: 8.49 min Scan# 708
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	387344		
85	66.6	52.2	78.4	
127	7.9	6.7	10.1	

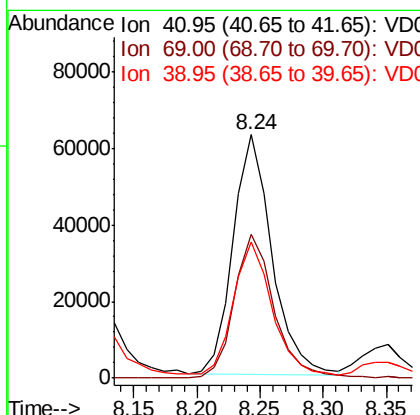
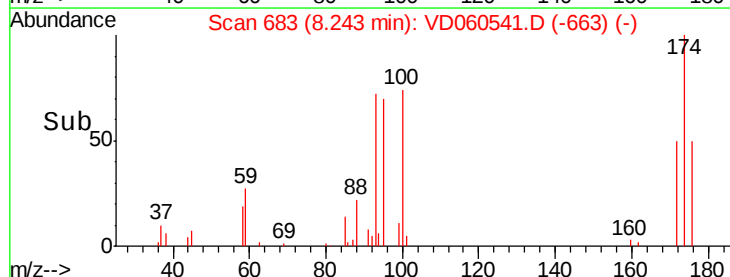
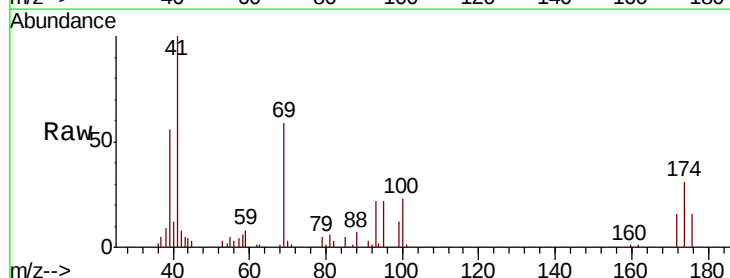
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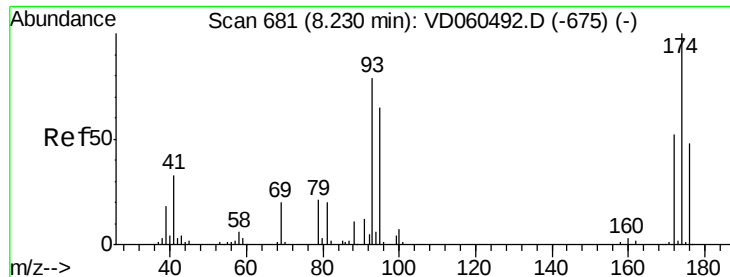
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#48
Methyl methacrylate
Concen: 19.872 ug/l
RT: 8.24 min Scan# 683
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	133922		
69	59.3	50.2	75.4	
39	56.1	46.1	69.1	





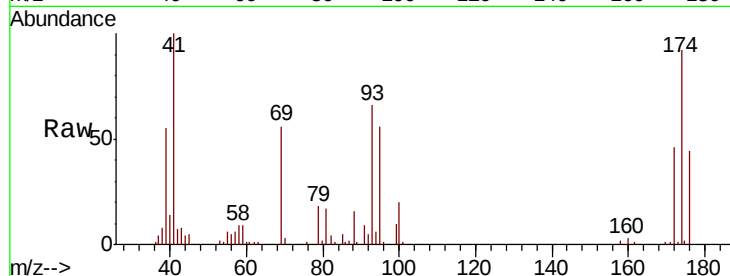
#49
1,4-Dioxane
Concen: 382.658 ug/l
RT: 8.23 min Scan# 682
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

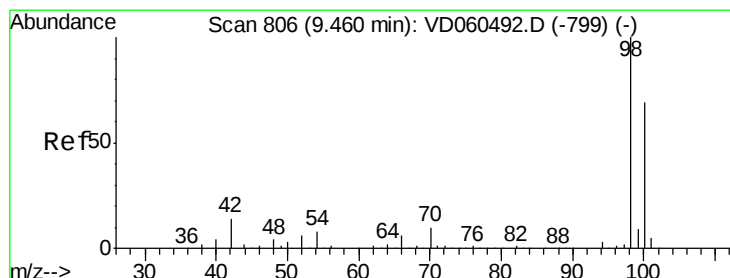
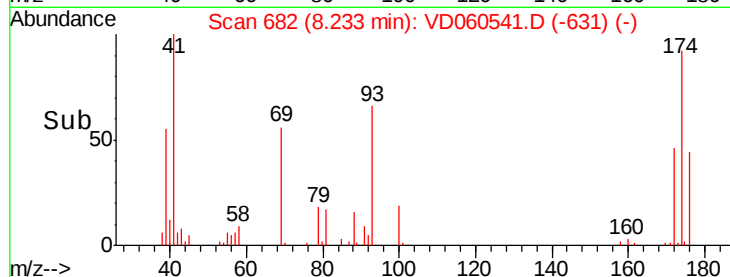
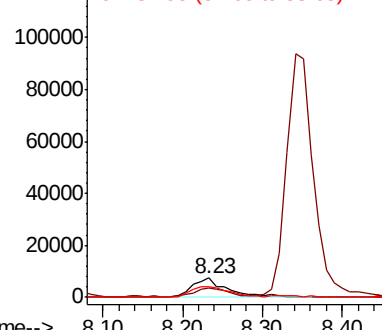
Tot Ion	Ratio	Lower	Upper
88	100		
43	49.0	32.9	49.3
58	56.6	47.7	71.5

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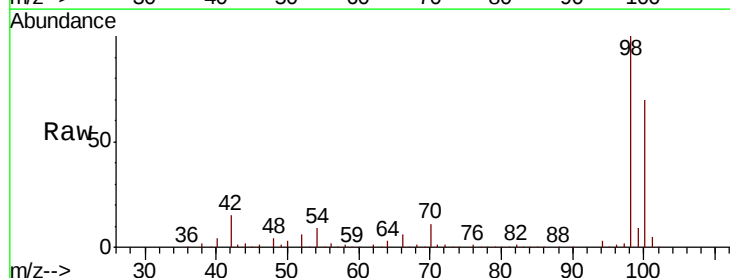


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

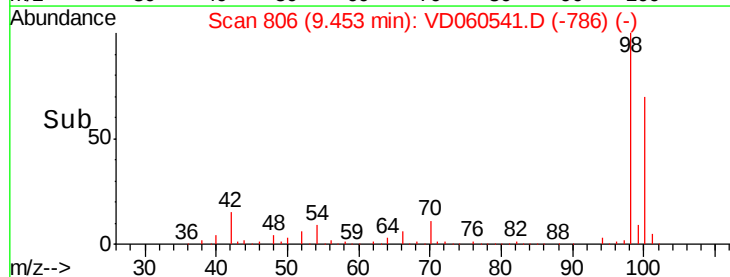
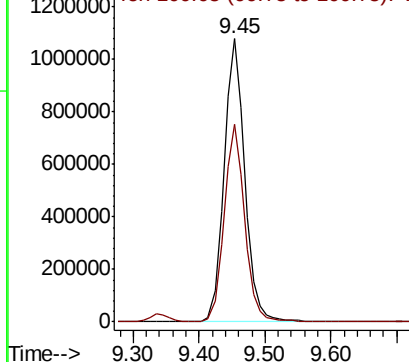


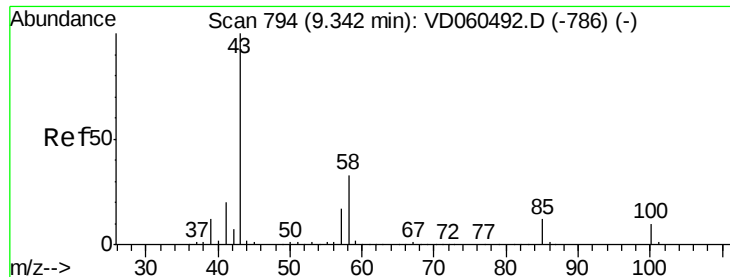
#50
Toluene-d8
Concen: 382.658 ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.9	55.7	83.5



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: 96.115 ug/l

RT: 9.34 min Scan# 794

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 43 Resp: 680949

Ion Ratio Lower Upper

43 100

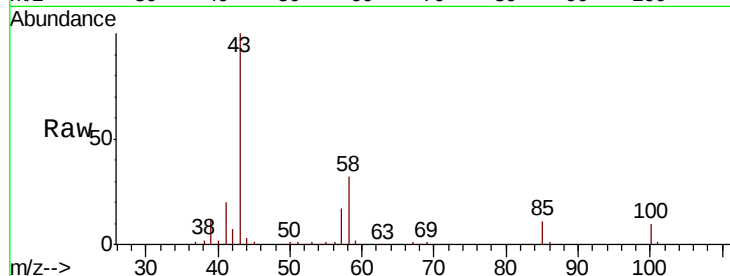
58 31.5 26.3 39.5

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

300000

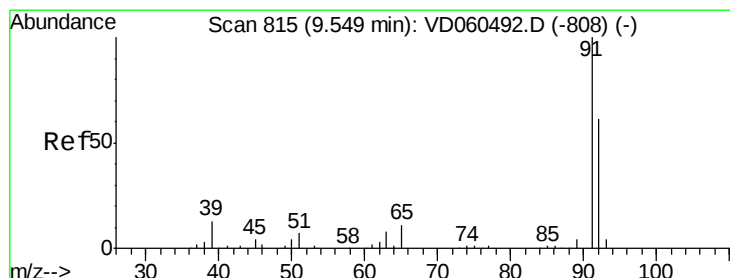
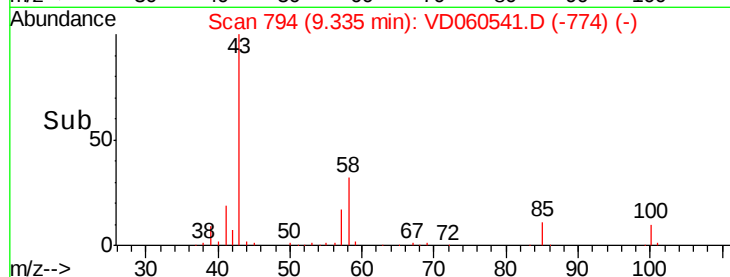
200000

100000

0

9.30 9.40

Time-->



#52

Toluene

Concen: 21.857 ug/l

RT: 9.54 min Scan# 815

Delta R.T. -0.01 min

Lab File: VD060541.D

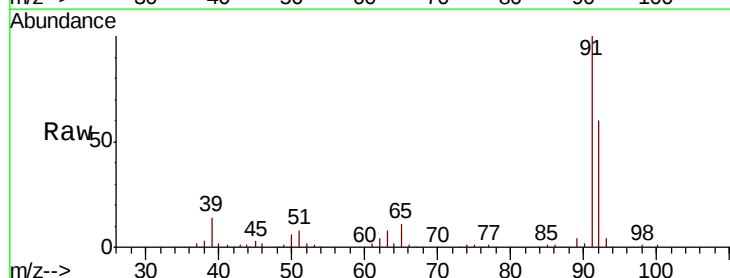
Acq: 12 Dec 2018 12:28

Tgt Ion: 92 Resp: 742792

Ion Ratio Lower Upper

92 100

91 165.5 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

600000

500000

400000

300000

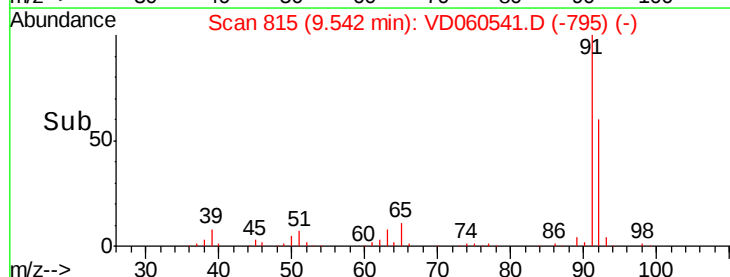
200000

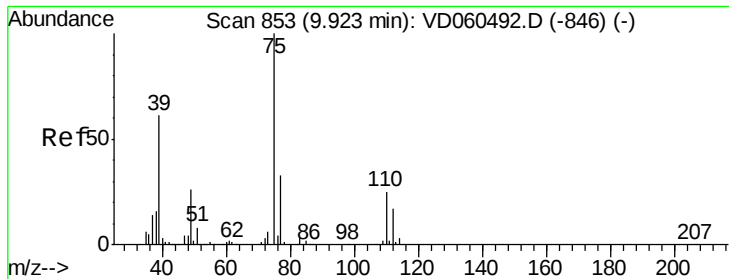
100000

0

9.40 9.50 9.60 9.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.094 ug/l

RT: 9.92 min Scan# 853

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 75 Resp: 304384

Ion Ratio Lower Upper

75 100

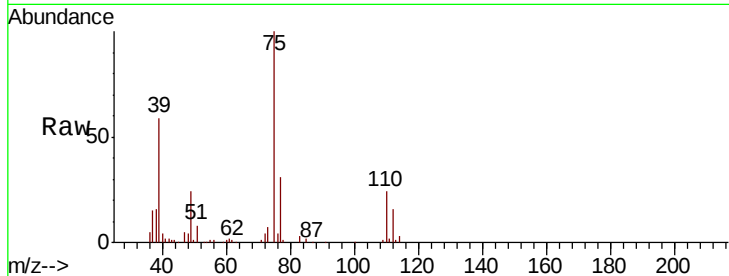
77 31.4 26.2 39.2

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

150000

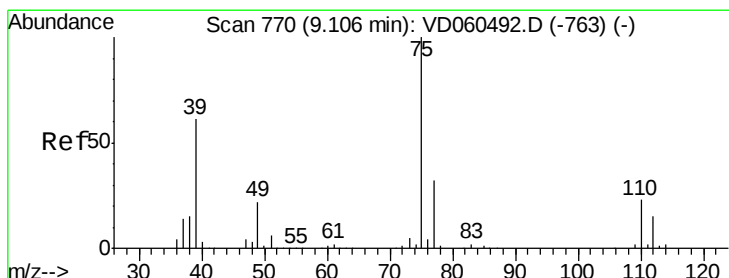
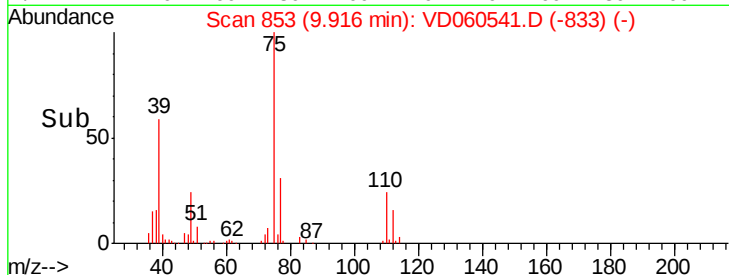
9.92

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.771 ug/l

RT: 9.10 min Scan# 770

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

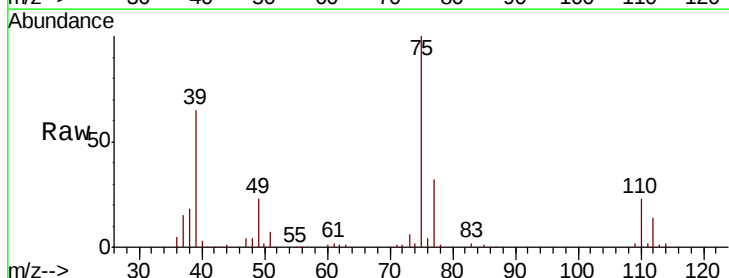
Tgt Ion: 75 Resp: 413393

Ion Ratio Lower Upper

75 100

77 32.2 25.6 38.4

39 65.0 48.6 73.0



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

250000

9.10

200000

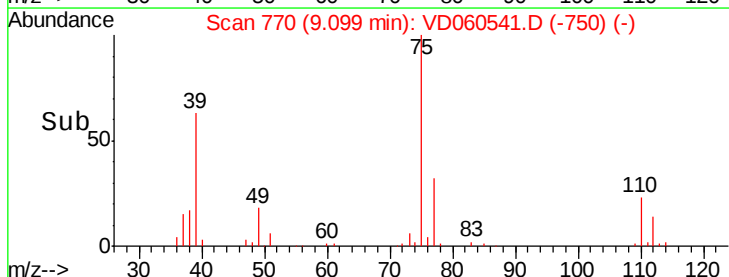
150000

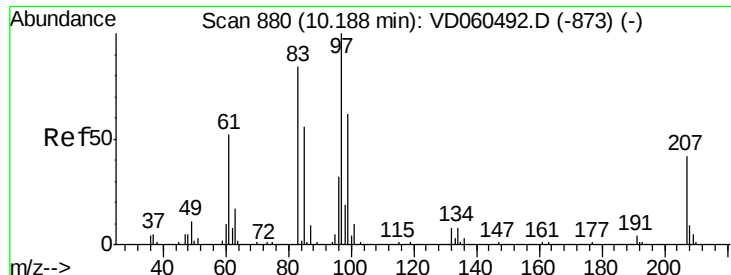
100000

50000

0

Time-->





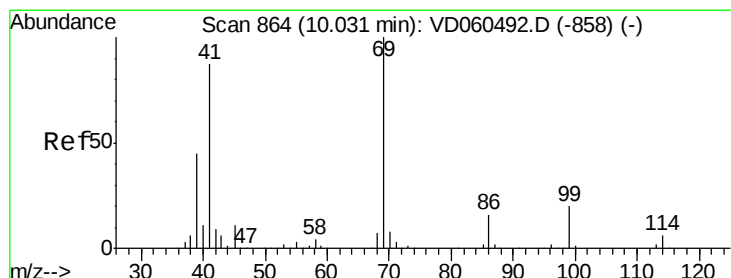
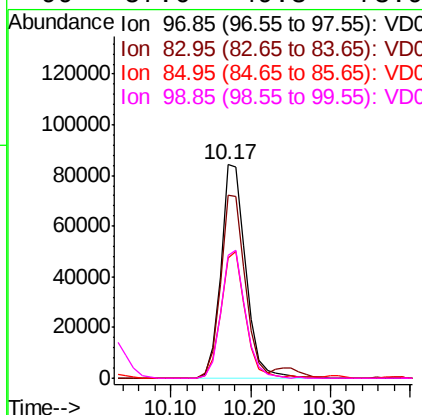
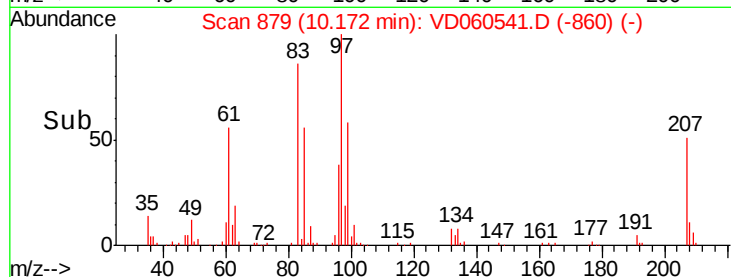
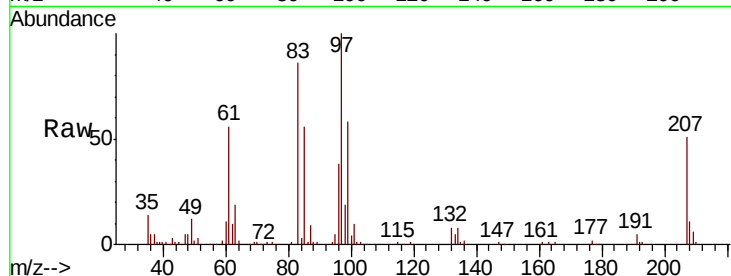
#55
 1,1,2-Trichloroethane
 Concen: 19.614 ug/l
 RT: 10.17 min Scan# 879
 Delta R.T. -0.02 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Tot Ion:	97	Resp:	185626
Ion	Ratio	Lower	Upper
97	100		
83	86.0	67.2	100.8
85	56.5	44.5	66.7
99	57.6	49.3	73.9

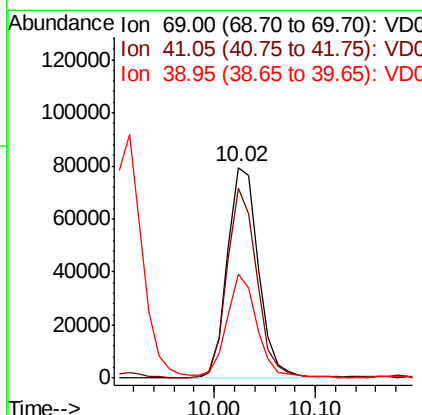
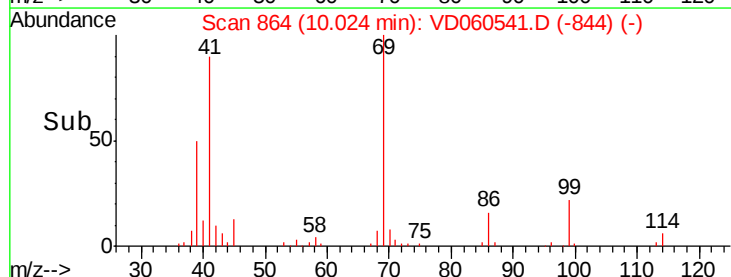
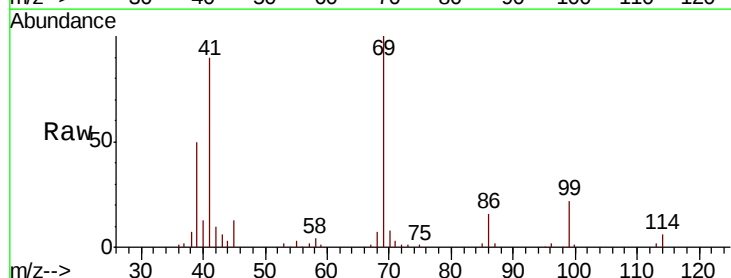
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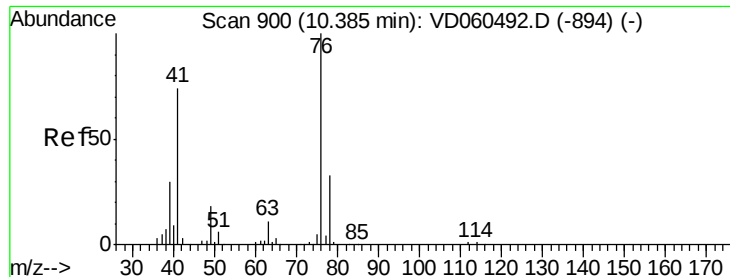
apatel
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#56
 Ethyl methacrylate
 Concen: 19.877 ug/l
 RT: 10.02 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion:	69	Resp:	170247
Ion	Ratio	Lower	Upper
69	100		
41	90.3	69.8	104.8
39	49.5	37.5	56.3





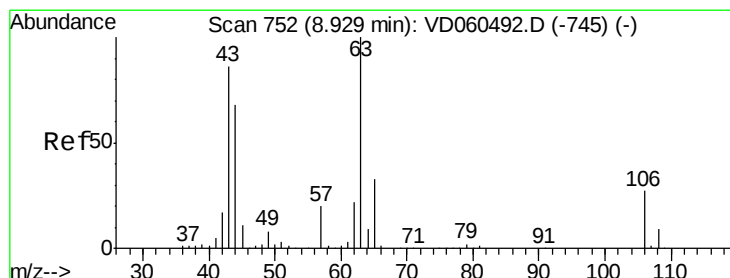
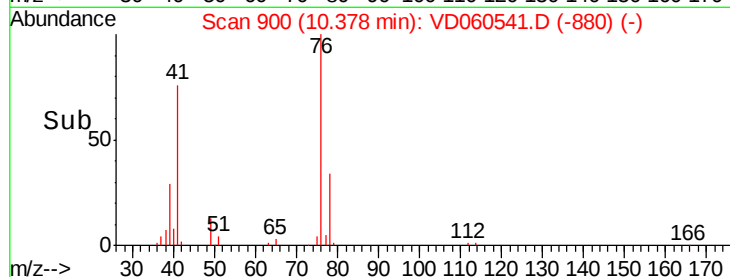
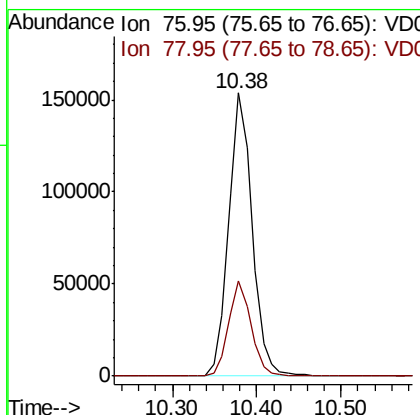
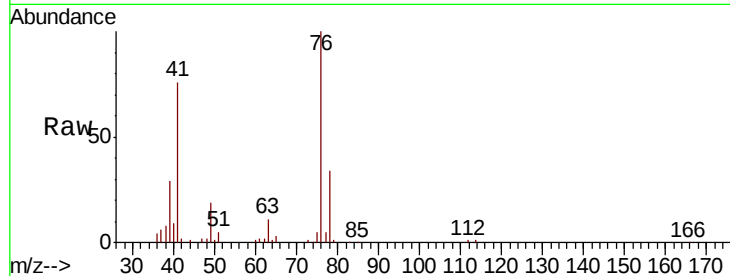
#57
 1,3-Dichloropropane
 Concen: 20.357 ug/l
 RT: 10.38 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.8	26.1	39.1

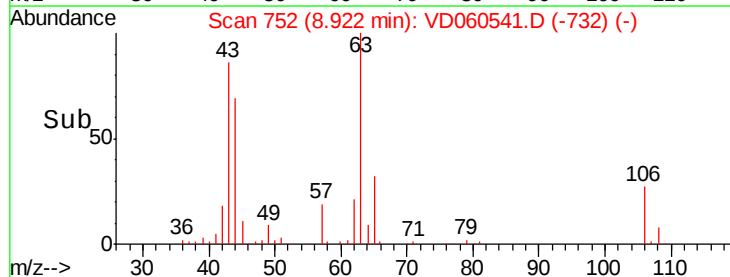
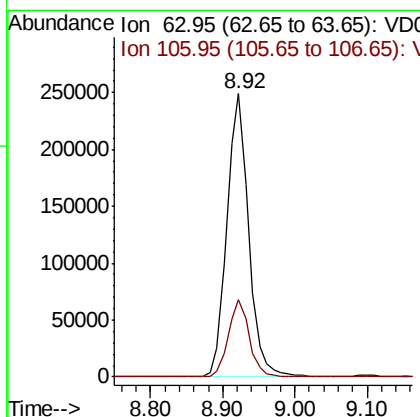
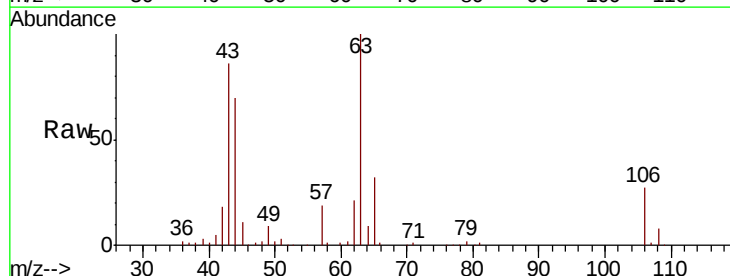
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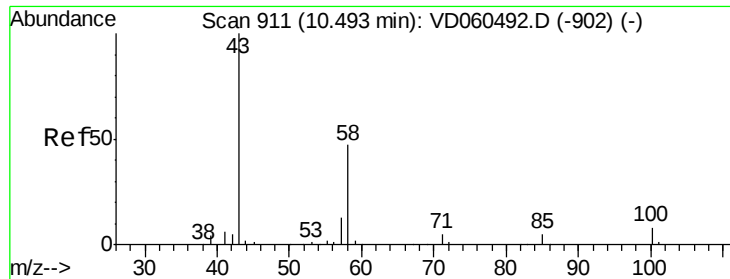
apatel
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#58
 2-Chloroethyl Vinyl ether
 Concen: 101.614 ug/l
 RT: 8.92 min Scan# 752
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.6	32.4





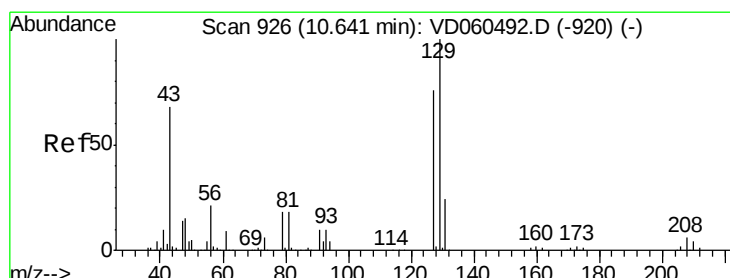
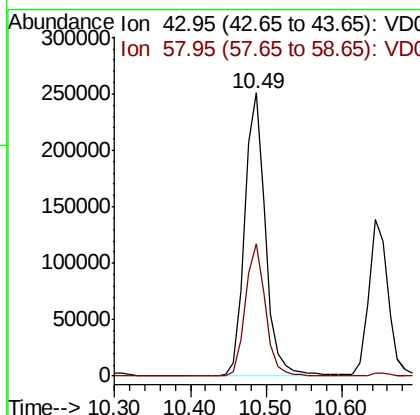
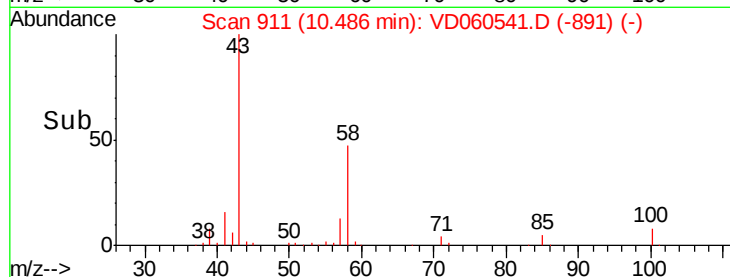
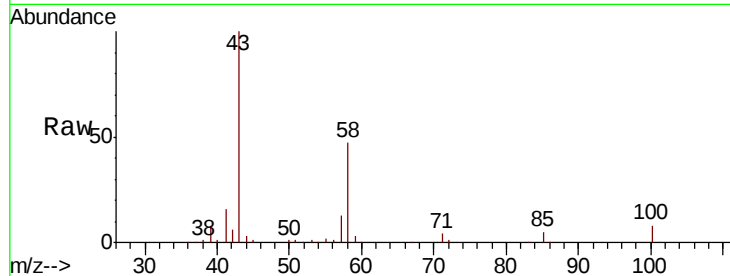
#59
2-Hexanone
Concen: 95.763 ug/l
RT: 10.49 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleID :
VD1212SBS01

Tot Ion: 43 Resp: 474224
Ion Ratio Lower Upper
43 100
58 46.7 23.4 70.2

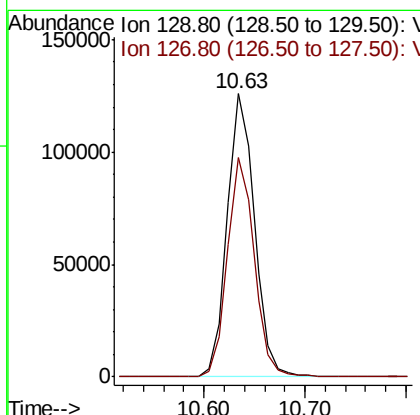
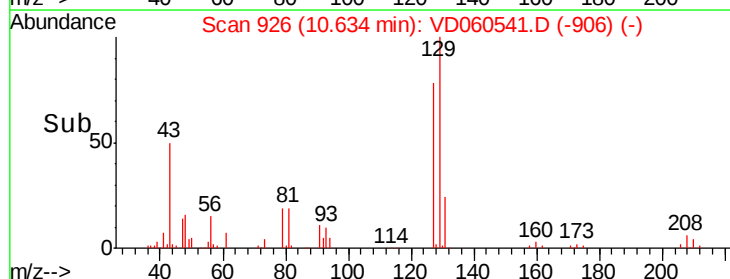
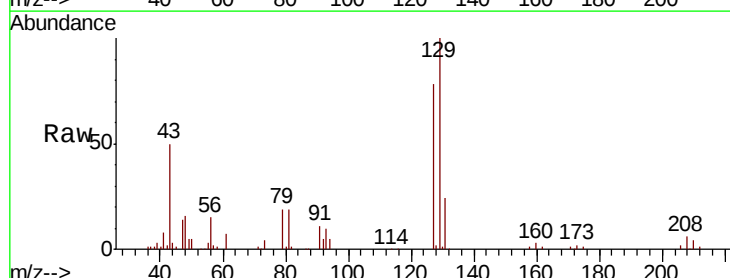
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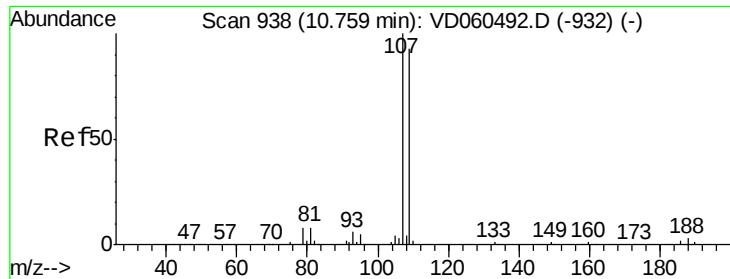
apatel
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#60
Dibromochloromethane
Concen: 19.977 ug/l
RT: 10.63 min Scan# 926
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion: 129 Resp: 236371
Ion Ratio Lower Upper
129 100
127 77.6 38.1 114.3





#61

1,2-Dibromoethane

Concen: 19.685 ug/l

RT: 10.75 min Scan# 938

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion:107 Resp: 189855

Ion Ratio Lower Upper

107 100

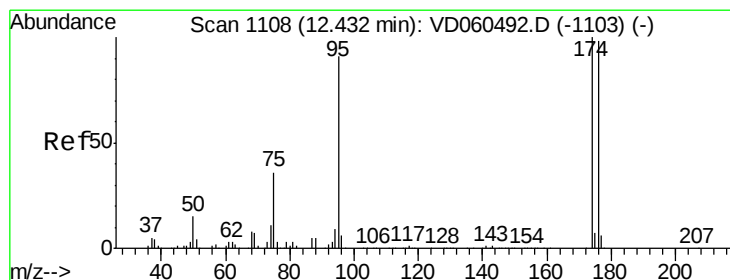
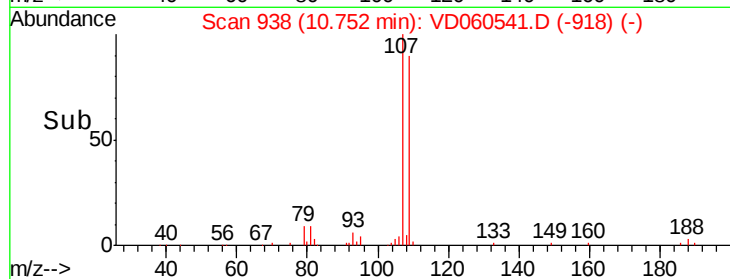
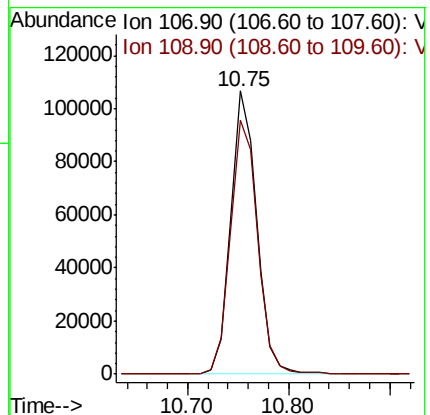
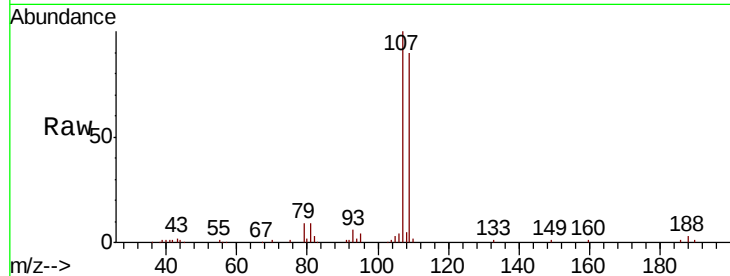
109 89.6 74.7 112.1

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#62

4-Bromofluorobenzene

Concen: 19.685 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

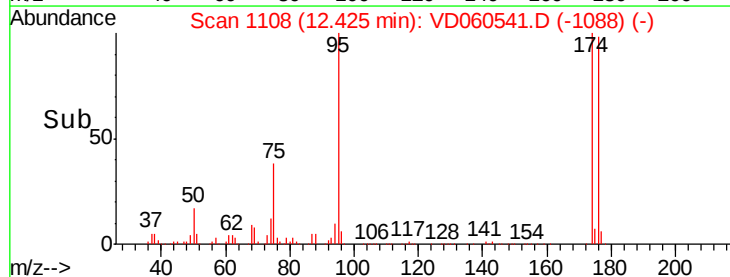
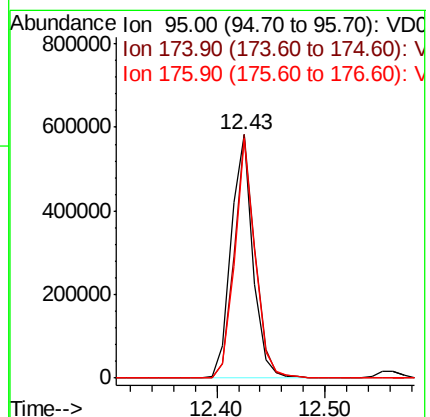
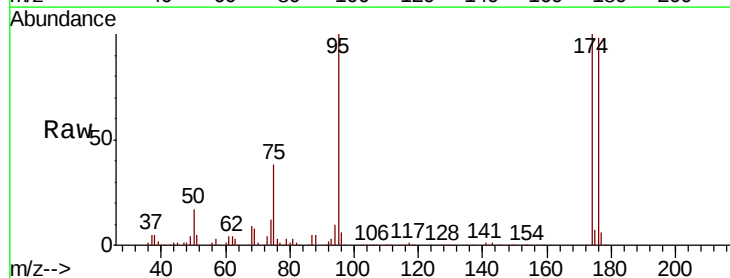
Tgt Ion: 95 Resp: 815328

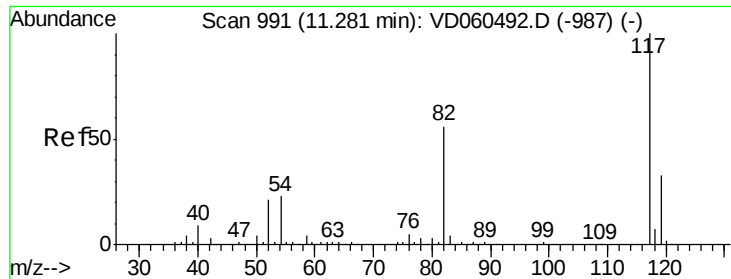
Ion Ratio Lower Upper

95 100

174 99.8 0.0 219.4

176 98.4 0.0 214.6





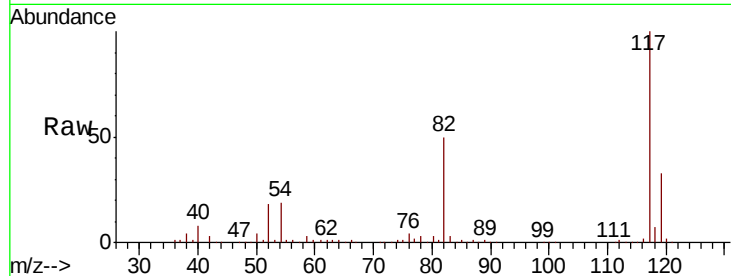
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

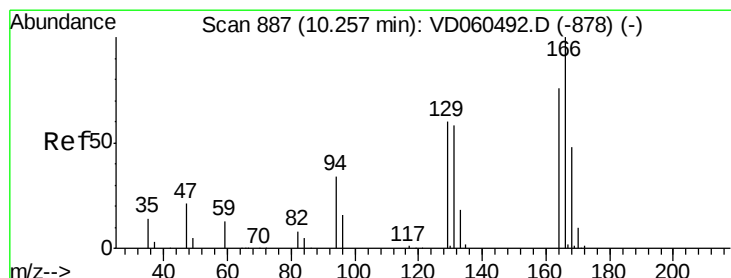
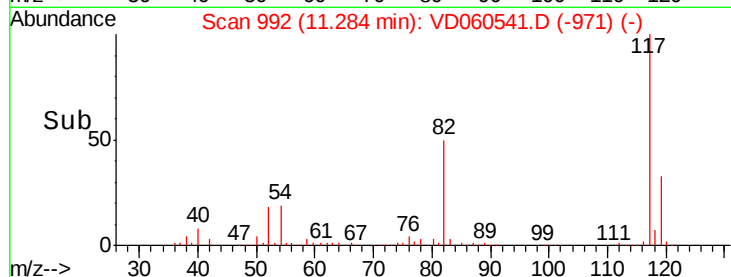
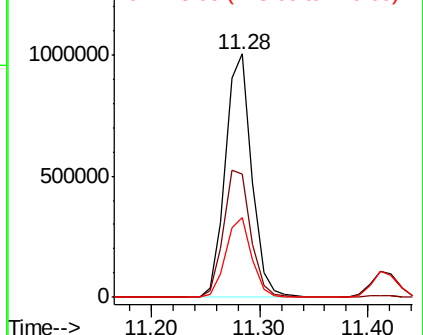
Tot Ion:117 Resp: 1706242
Ion Ratio Lower Upper
117 100
82 50.4 45.2 67.8
119 32.5 26.1 39.1

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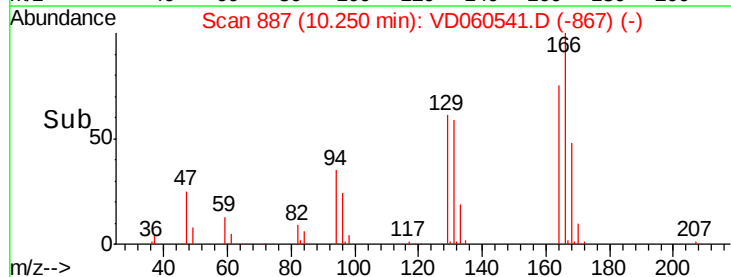
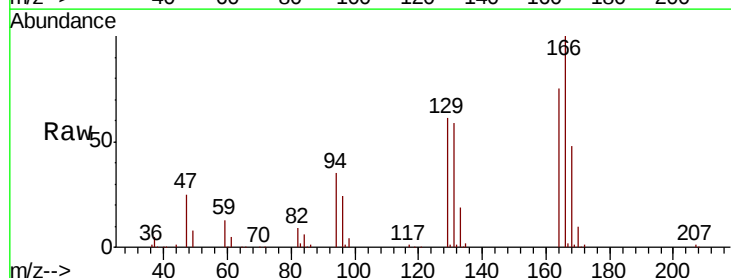
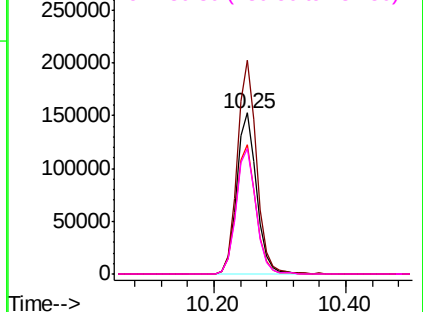
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V



#64
Tetrachloroethene
Concen: 21.293 ug/l
RT: 10.25 min Scan# 887
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion:164 Resp: 321705
Ion Ratio Lower Upper
164 100
166 132.6 105.0 157.6
129 80.3 63.0 94.4
131 77.9 60.6 90.8

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





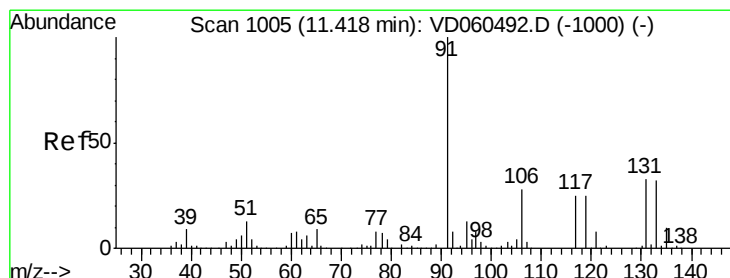
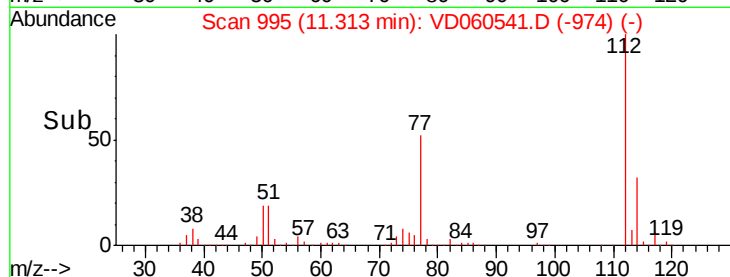
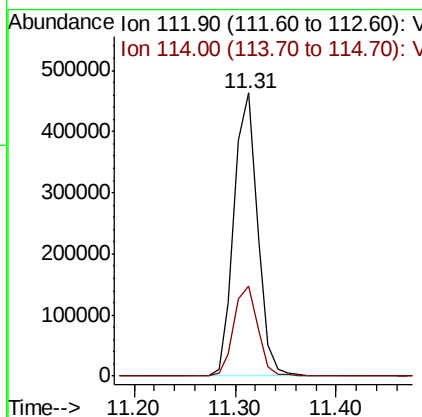
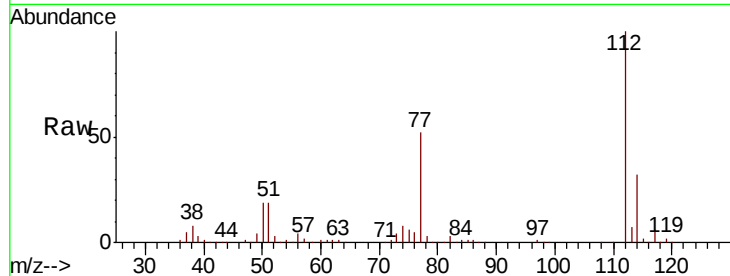
#65
Chlorobenzene
Concen: 20.896 ug/l
RT: 11.31 min Scan# 995
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion:112 Resp: 754275
Ion Ratio Lower Upper
112 100
114 31.9 26.2 39.4

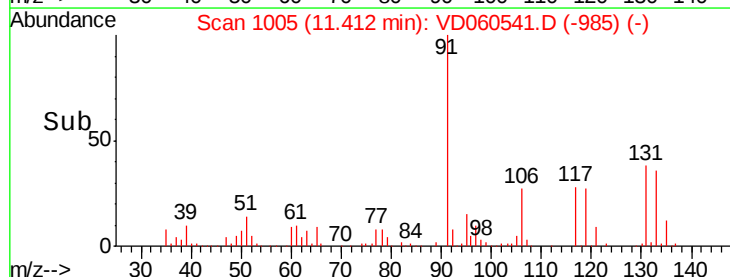
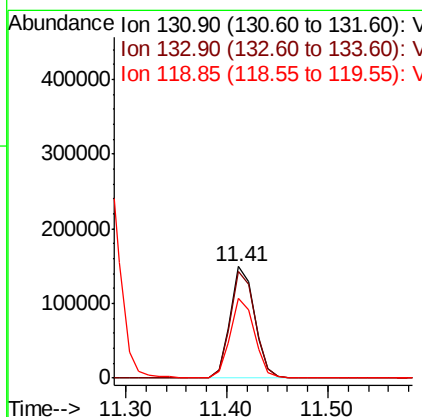
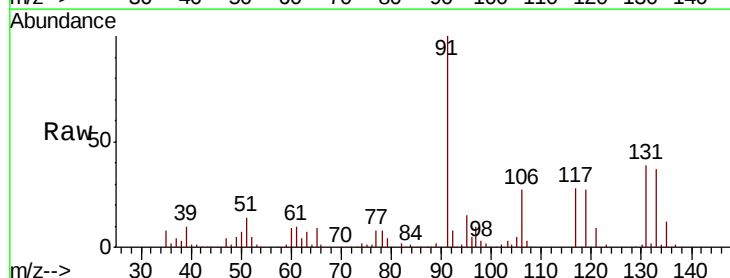
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.637 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion:131 Resp: 251732
Ion Ratio Lower Upper
131 100
133 95.8 49.1 147.3
119 70.9 37.5 112.3





#67

Ethyl Benzene

Concen: 22.487 ug/l

RT: 11.42 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 91 Resp: 1384500

Ion Ratio Lower Upper

91 100

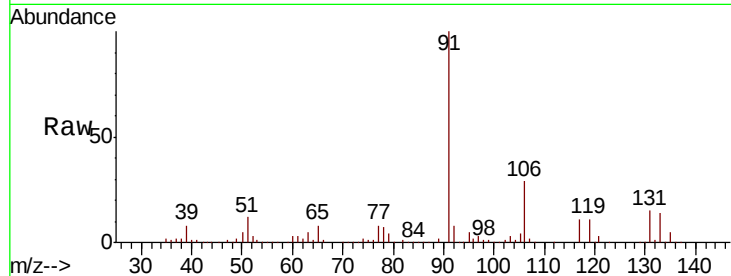
106 28.9 24.6 37.0

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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V

1200000

1000000

800000

600000

400000

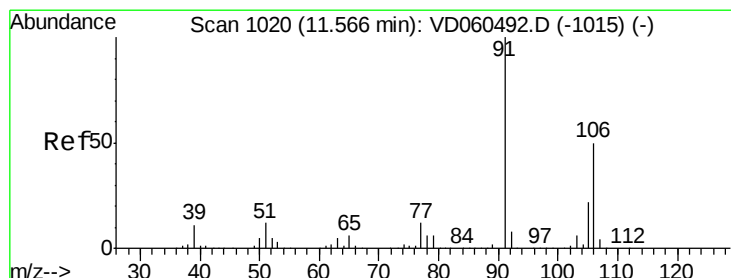
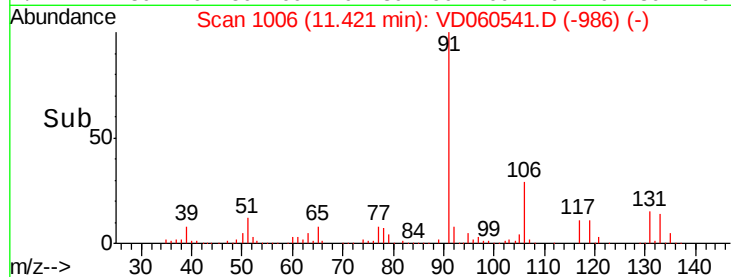
200000

0

11.42

11.50

Time-->



#68

m/p-Xylenes

Concen: 45.306 ug/l

RT: 11.56 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VD060541.D

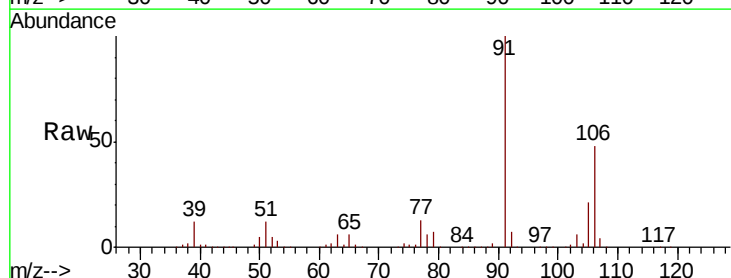
Acq: 12 Dec 2018 12:28

Tgt Ion:106 Resp: 1031993

Ion Ratio Lower Upper

106 100

91 207.1 160.5 240.7



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

1200000

1000000

800000

600000

400000

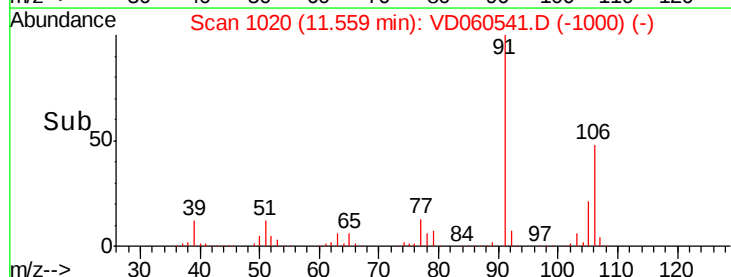
200000

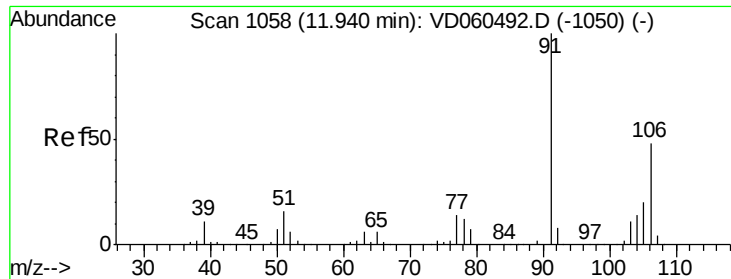
0

11.56

11.70

Time-->





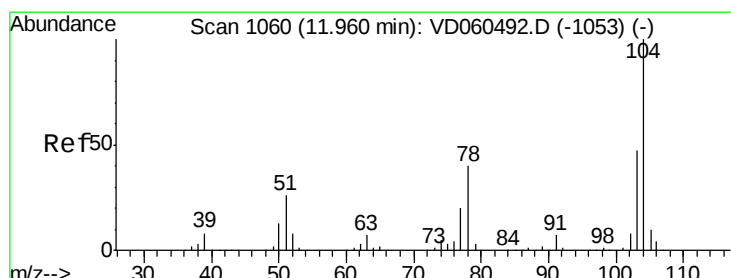
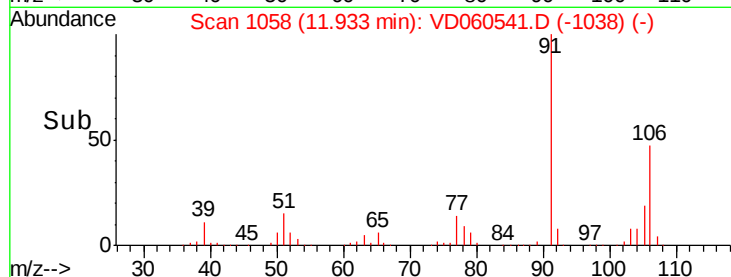
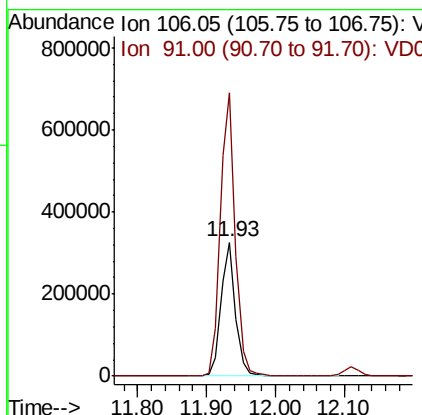
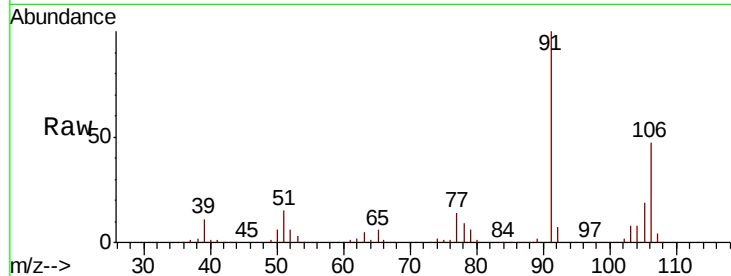
#69
o-Xylene
Concen: 21.609 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion:106 Resp: 469091
Ion Ratio Lower Upper
106 100
91 211.6 103.4 310.1

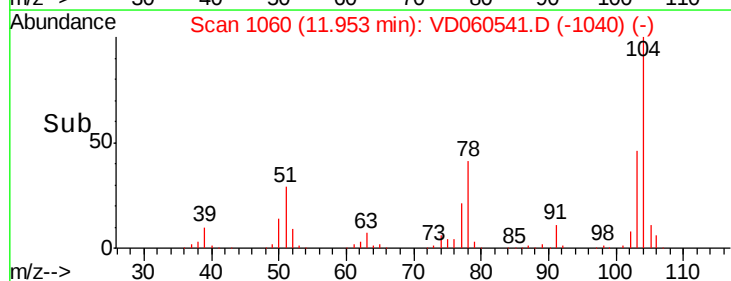
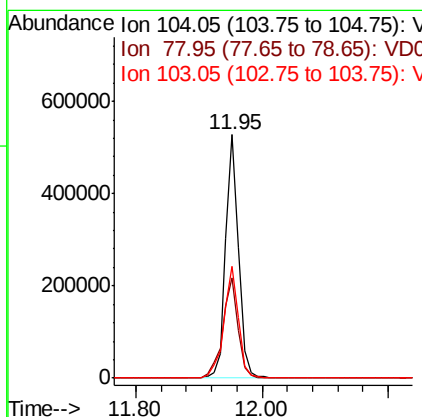
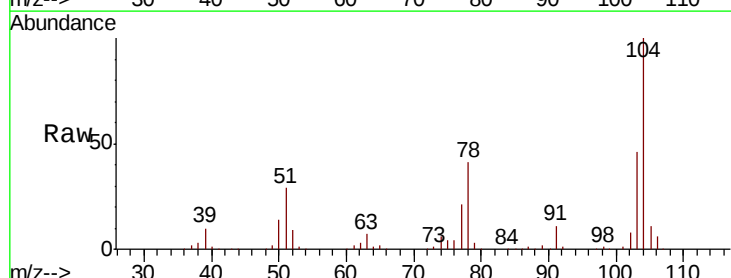
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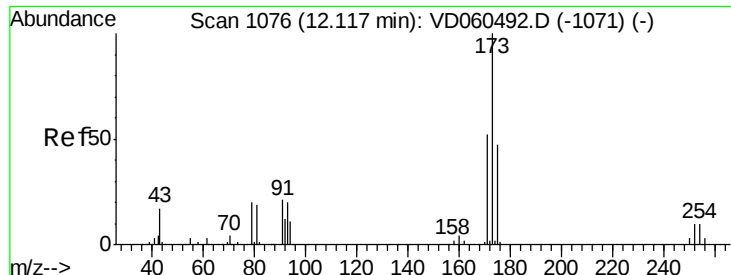
apatel
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#70
Styrene
Concen: 21.512 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion:104 Resp: 749551
Ion Ratio Lower Upper
104 100
78 41.3 32.1 48.1
103 45.9 37.2 55.8





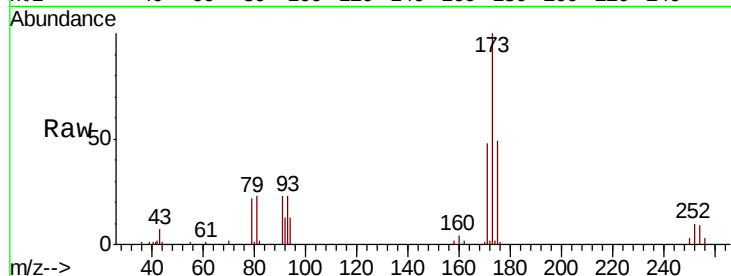
#71
Bromoform
Concen: 19.019 ug/l
RT: 12.11 min Scan# 1076
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

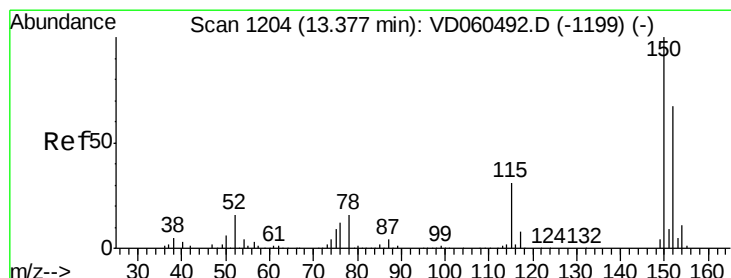
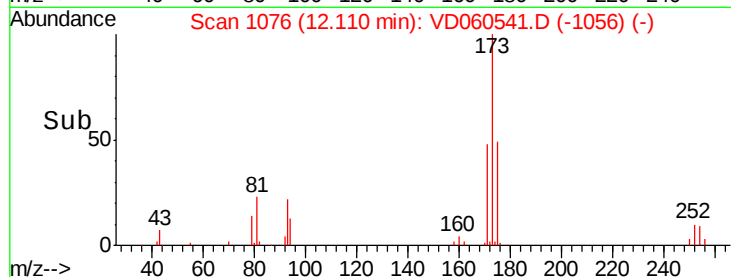
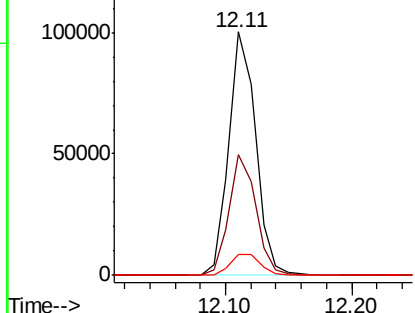
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.5	70.6
254	8.8	7.8	11.8

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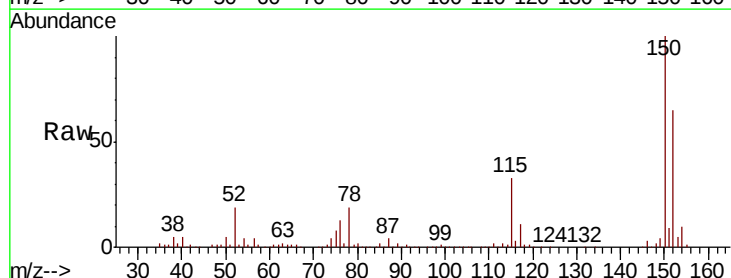


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

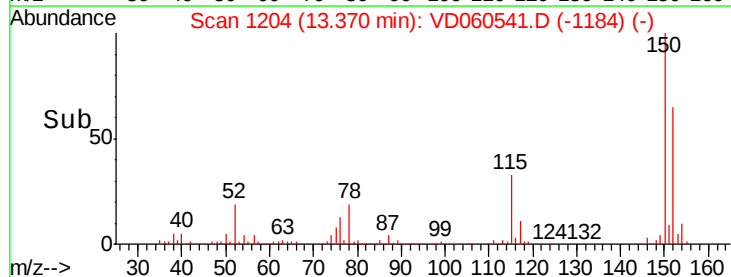
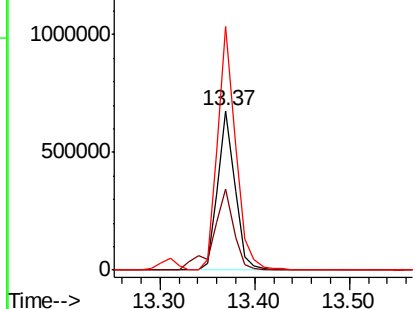


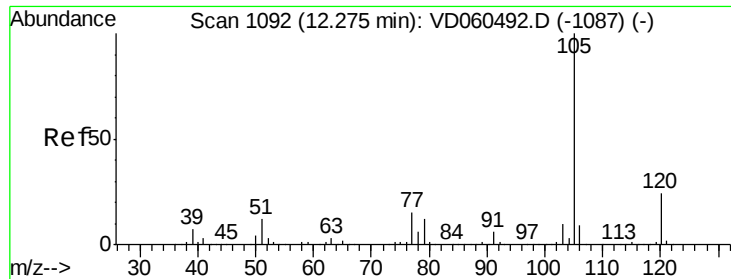
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	51.1	24.6	74.0
150	152.7	0.0	309.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.890 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion:105 Resp: 1329434

Ion Ratio Lower Upper

105 100

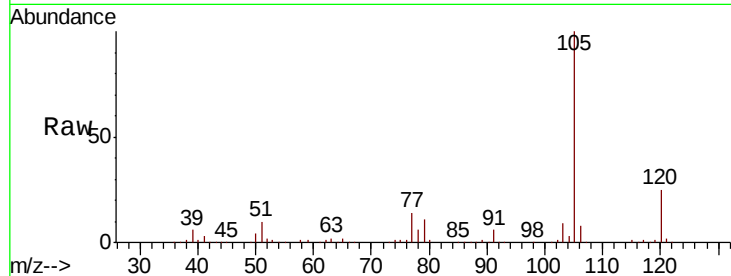
120 24.9 11.9 35.9

Manual Integrations

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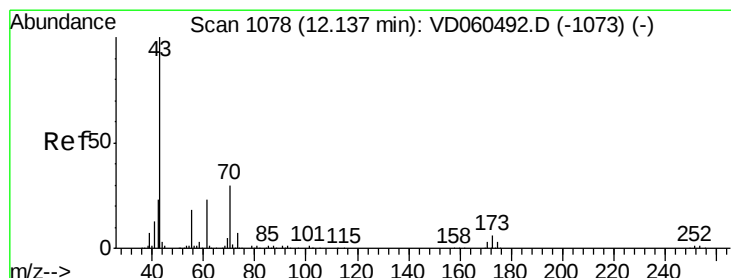
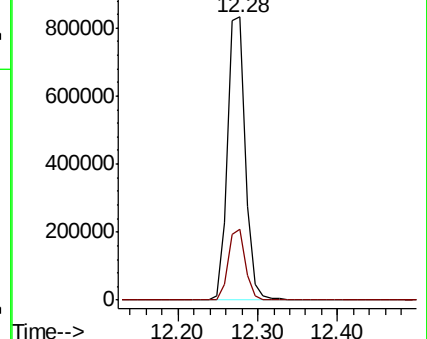
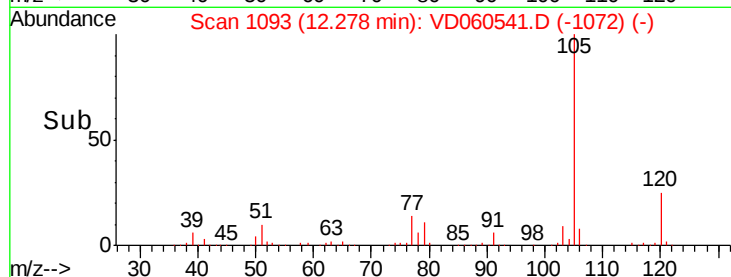
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.237 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Tgt Ion: 43 Resp: 282371

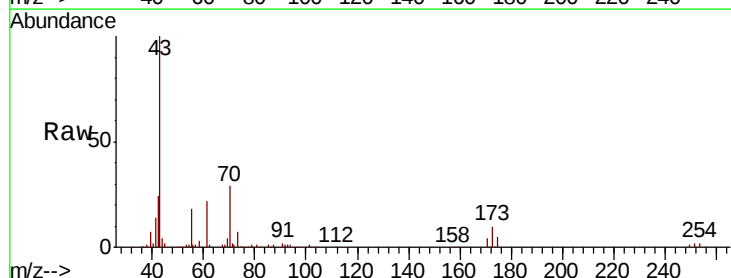
Ion Ratio Lower Upper

43 100

70 29.0 23.8 35.8

55 17.9 14.2 21.2

61 22.0 18.1 27.1

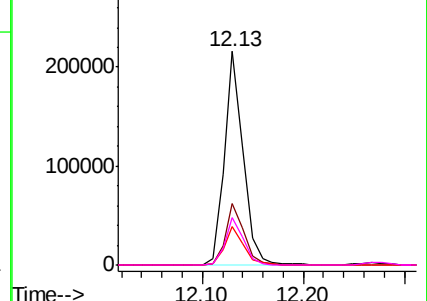
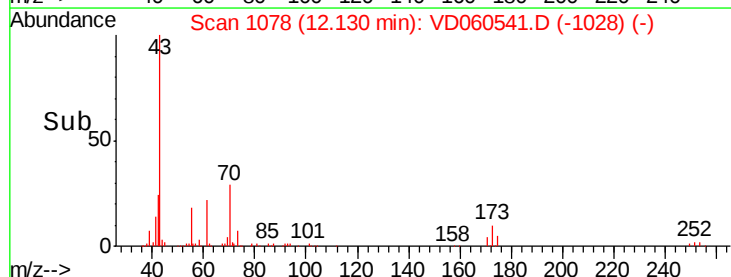


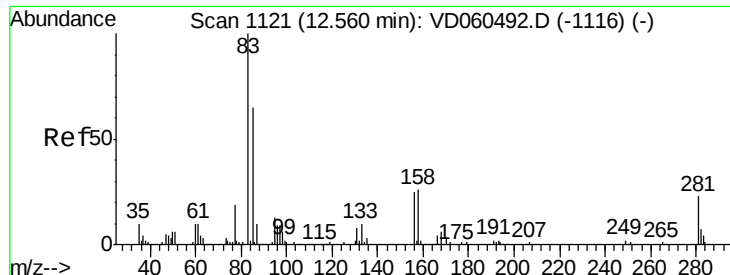
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 19.379 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 83 Resp: 188425

Ion Ratio Lower Upper

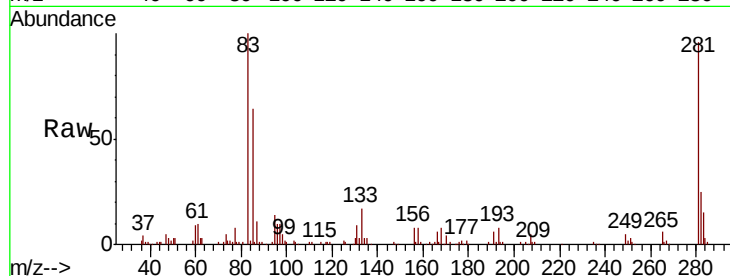
83 100

131 9.5 3.8 11.4

85 64.1 32.3 96.9

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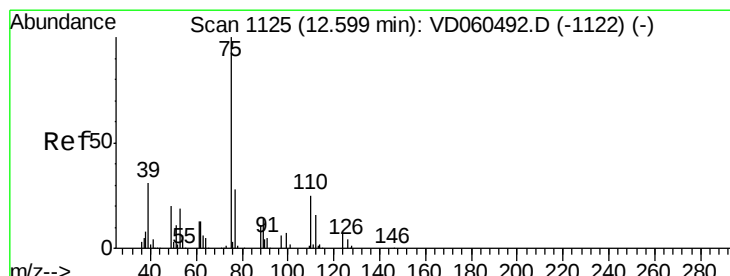
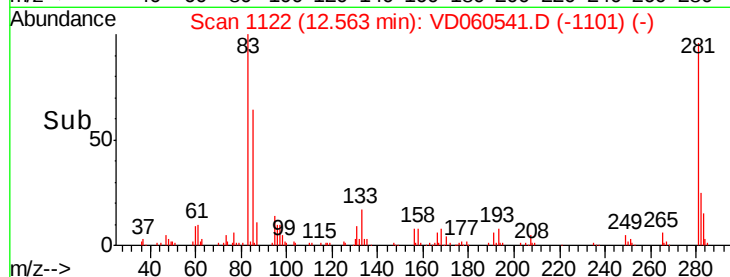
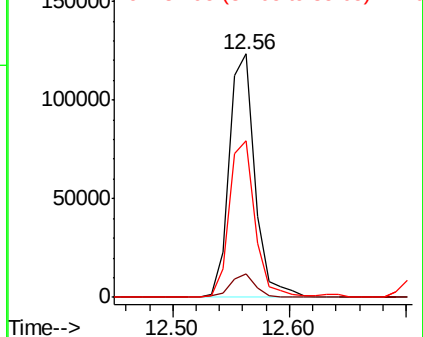
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Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.003 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VD060541.D

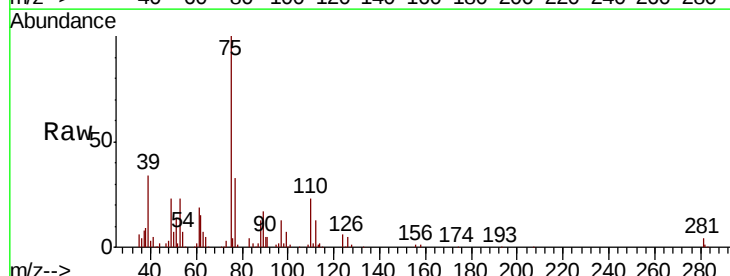
Acq: 12 Dec 2018 12:28

Tgt Ion: 75 Resp: 194526

Ion Ratio Lower Upper

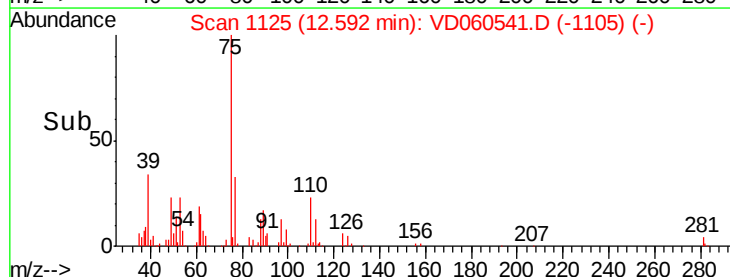
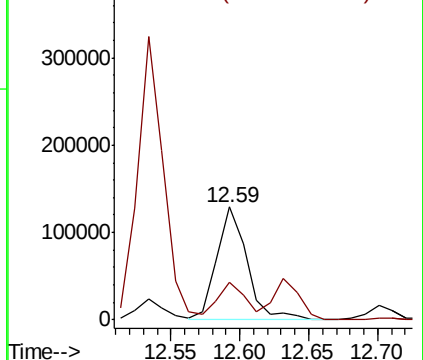
75 100

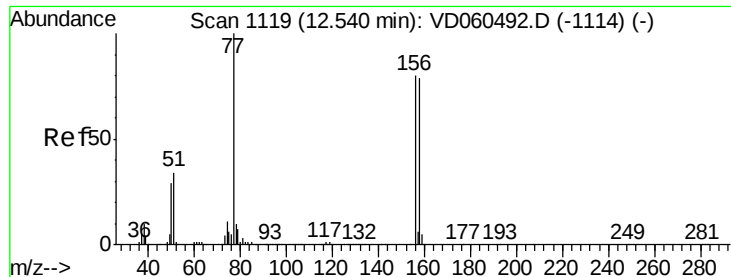
77 32.9 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.720 ug/l

RT: 12.53 min Scan# 1119

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 156 Resp: 330778

Ion Ratio Lower Upper

156 100

77 144.1 62.5 187.6

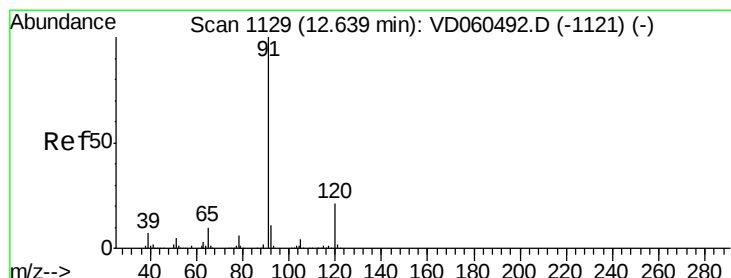
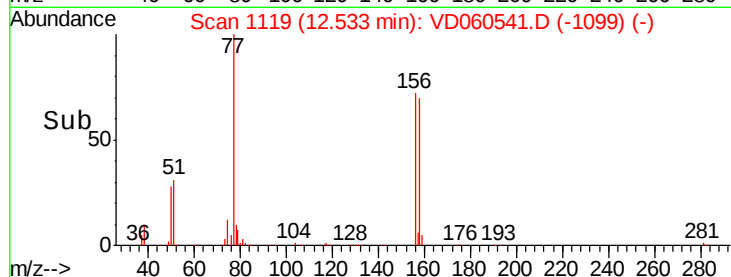
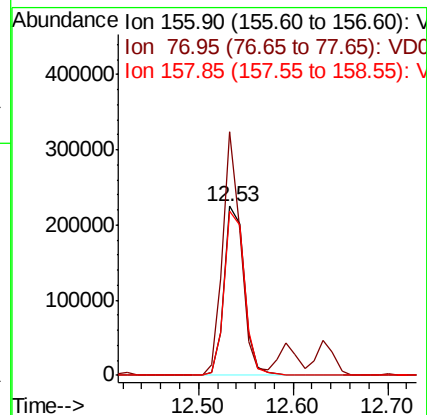
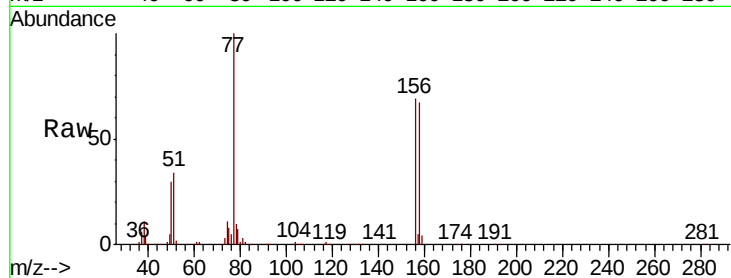
158 97.1 49.4 148.2

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#78

n-propylbenzene

Concen: 22.070 ug/l

RT: 12.63 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VD060541.D

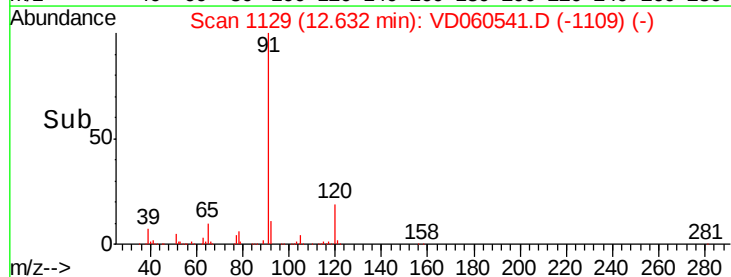
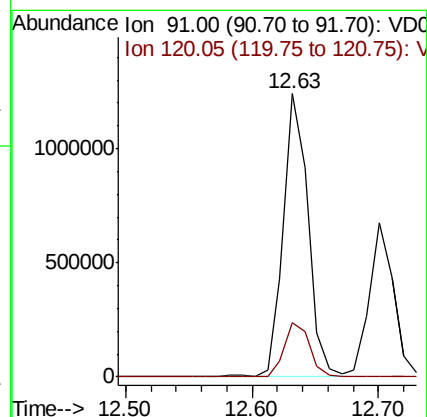
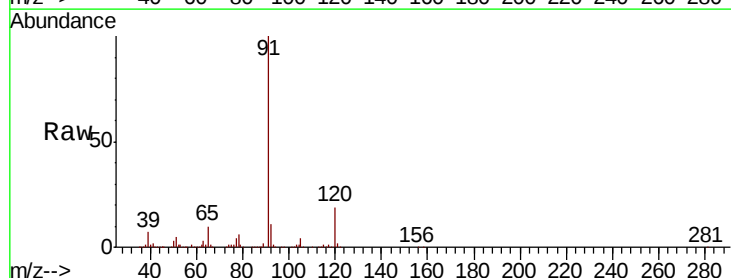
Acq: 12 Dec 2018 12:28

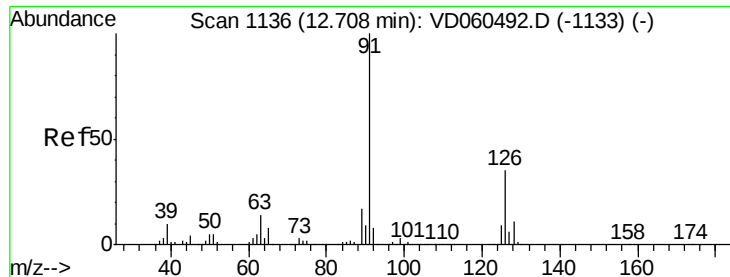
Tgt Ion: 91 Resp: 1694405

Ion Ratio Lower Upper

91 100

120 19.0 10.4 31.1





#79

2-Chlorotoluene

Concen: 21.557 ug/l

RT: 12.70 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 91 Resp: 898063

Ion Ratio Lower Upper

91 100

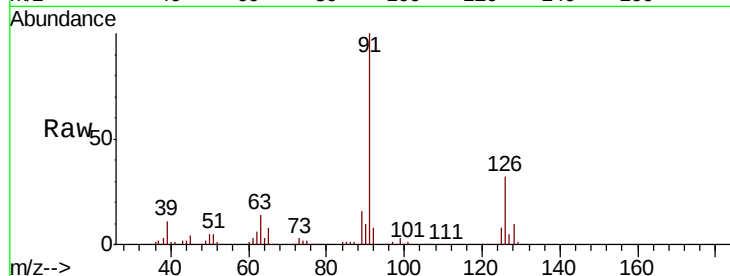
126 31.9 17.3 52.0

Manual Integrations

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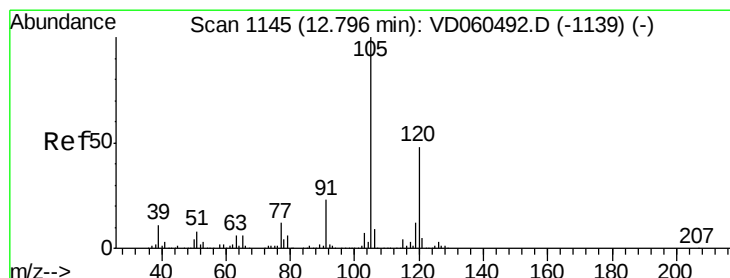
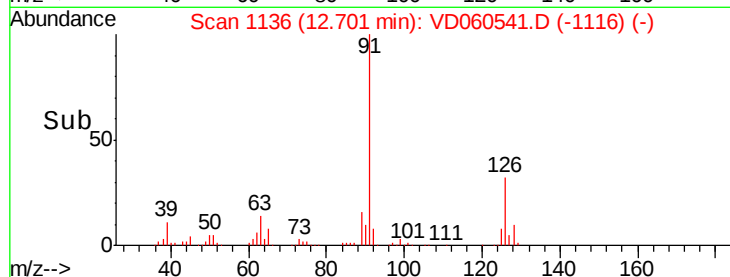
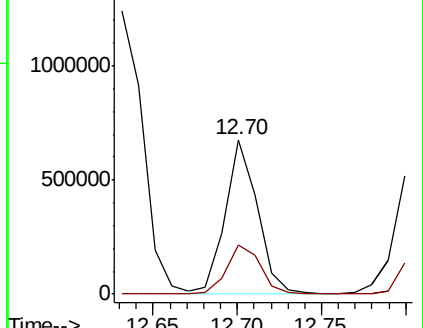
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 22.325 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VD060541.D

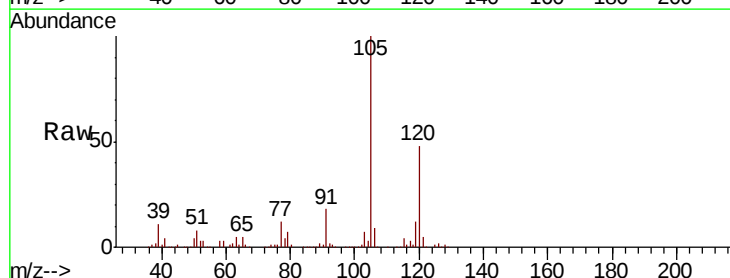
Acq: 12 Dec 2018 12:28

Tgt Ion:105 Resp: 1036037

Ion Ratio Lower Upper

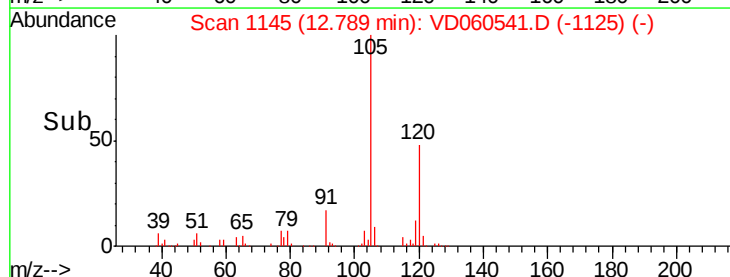
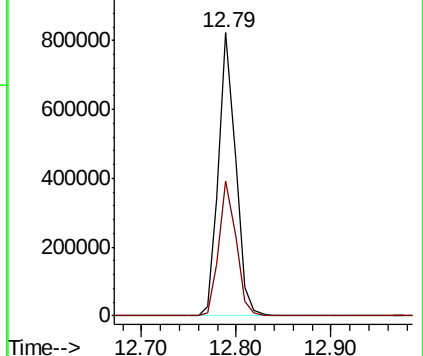
105 100

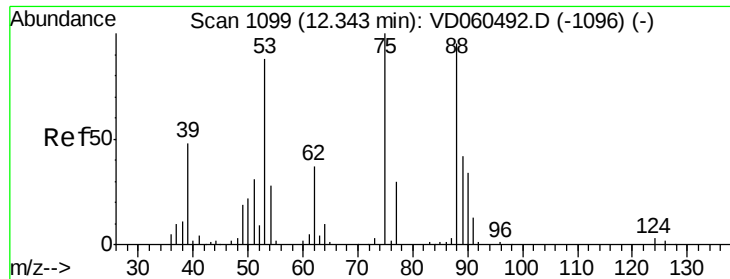
120 47.6 24.2 72.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 19.674 ug/l

RT: 12.34 min Scan# 1099

Delta R.T. -0.01 min

Lab File: VD060541.D

Acq: 12 Dec 2018 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD1212SBS01

Tot Ion: 75 Resp: 53360

Ion Ratio Lower Upper

75 100

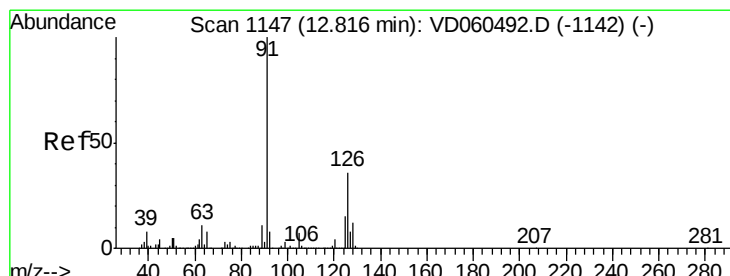
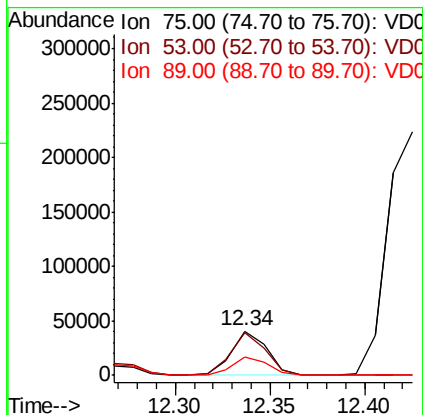
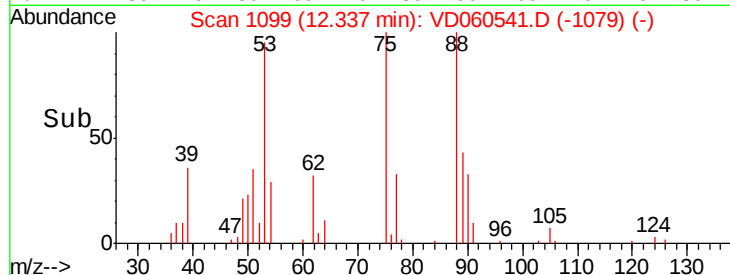
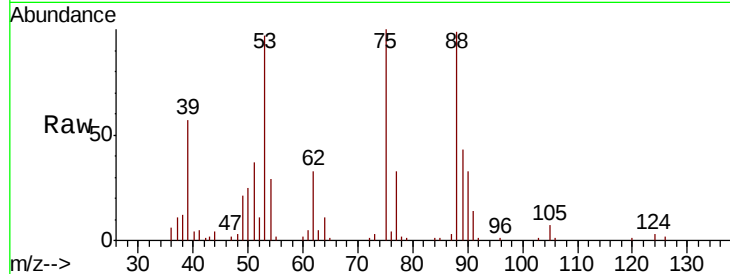
53 97.3 70.5 105.7

89 42.8 33.6 50.4

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#82

4-Chlorotoluene

Concen: 21.796 ug/l

RT: 12.81 min Scan# 1147

Delta R.T. -0.01 min

Lab File: VD060541.D

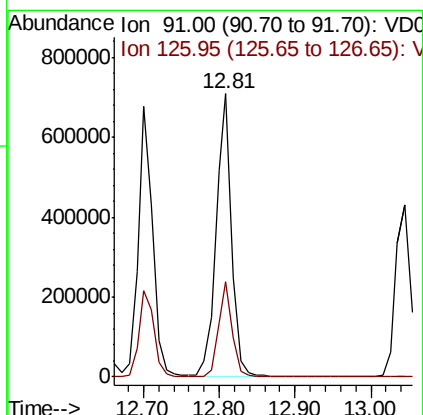
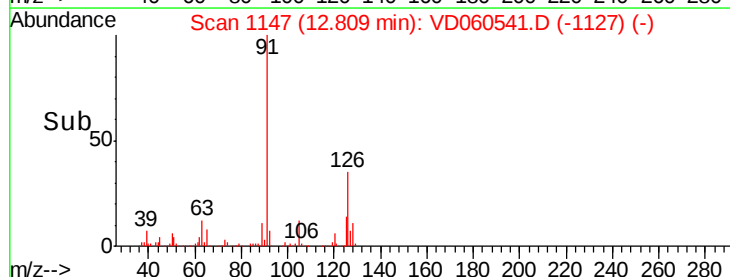
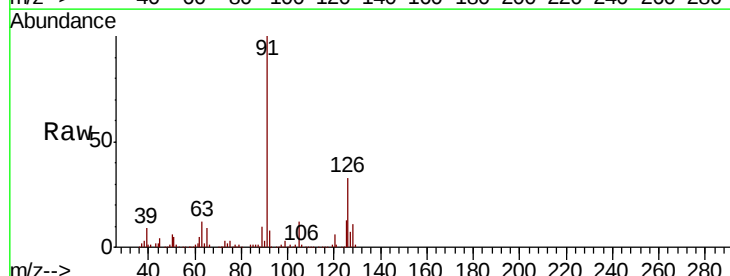
Acq: 12 Dec 2018 12:28

Tgt Ion: 91 Resp: 1019851

Ion Ratio Lower Upper

91 100

126 33.4 17.8 53.4





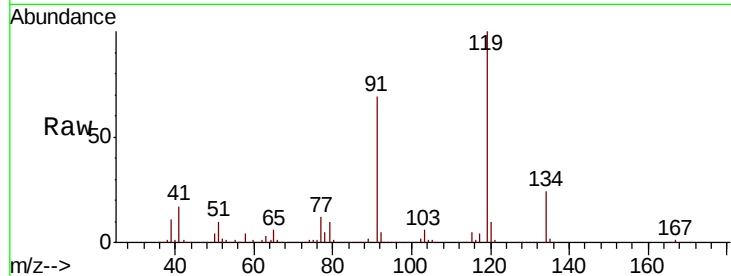
#83
tert-Butylbenzene
Concen: 21.731 ug/l
RT: 13.05 min Scan# 1171
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

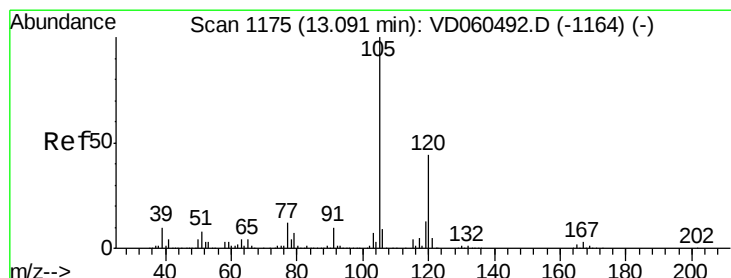
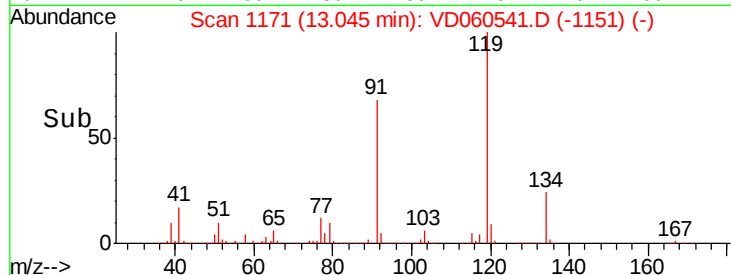
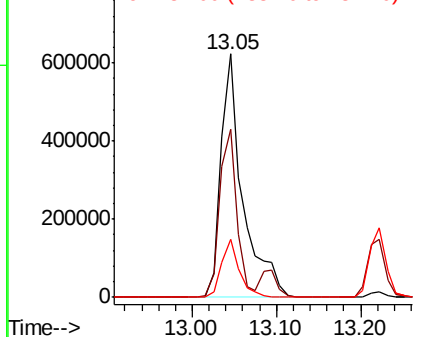
Tot Ion:119 Resp: 1130745
Ion Ratio Lower Upper
119 100
91 69.0 33.1 99.2
134 23.6 12.0 36.0

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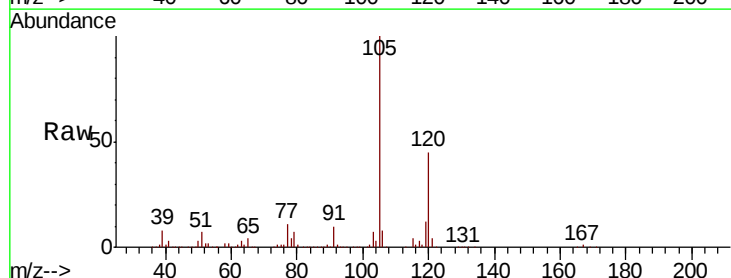


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

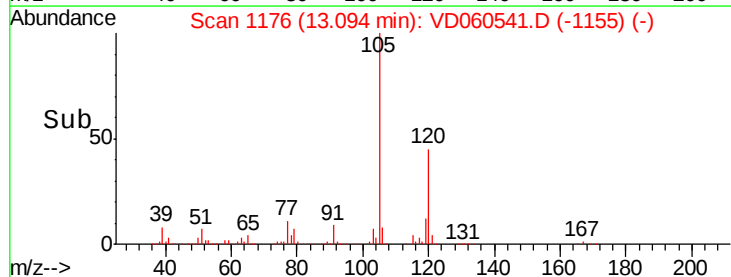
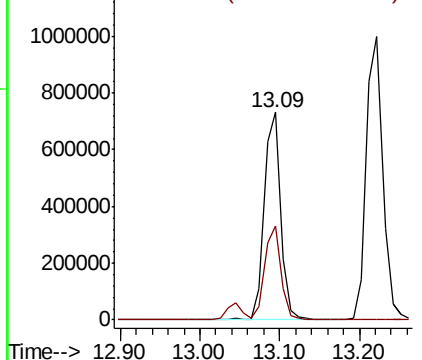


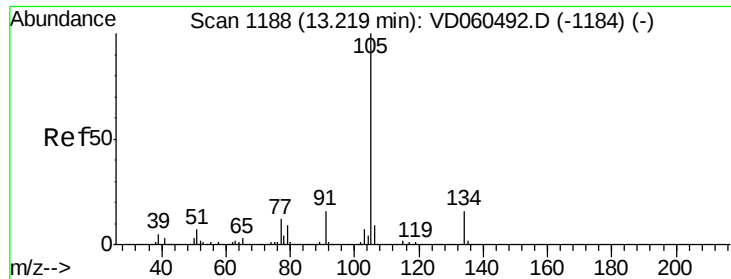
#84
1,2,4-Trimethylbenzene
Concen: 21.507 ug/l
RT: 13.09 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion:105 Resp: 1033463
Ion Ratio Lower Upper
105 100
120 45.2 22.3 66.8



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





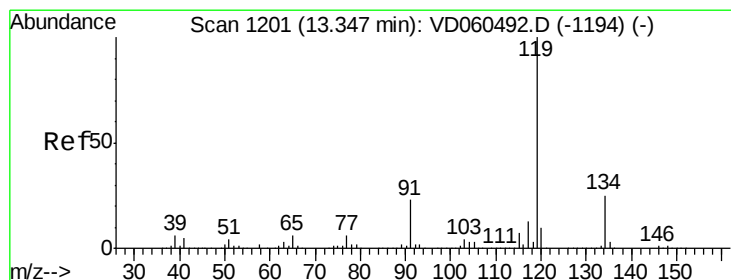
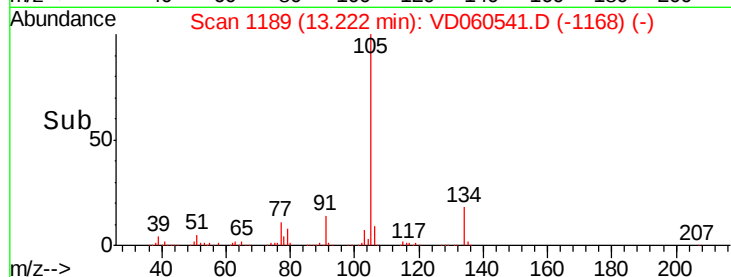
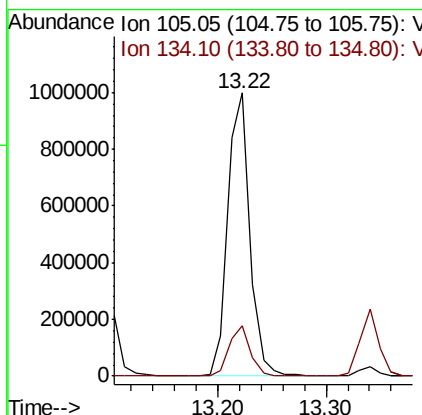
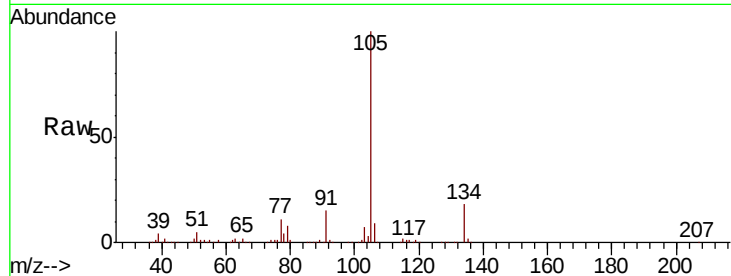
#85
 sec-Butylbenzene
 Concen: 21.772 ug/l
 RT: 13.22 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Tot Ion:105 Resp: 1412009
 Ion Ratio Lower Upper
 105 100
 134 17.9 7.9 23.7

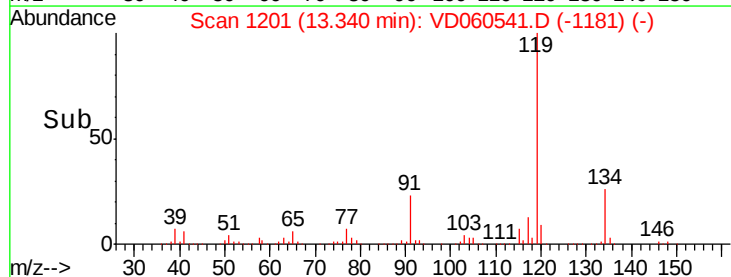
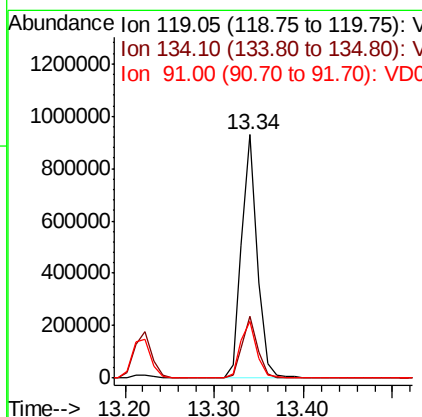
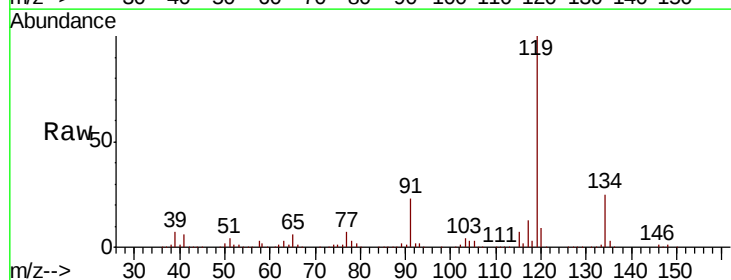
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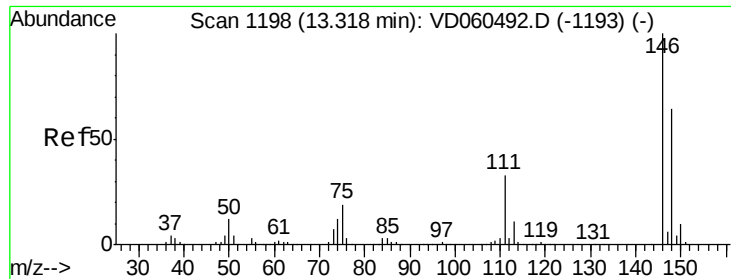
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#86
 p-Isopropyltoluene
 Concen: 22.166 ug/l
 RT: 13.34 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion:119 Resp: 1139556
 Ion Ratio Lower Upper
 119 100
 134 25.5 12.5 37.5
 91 23.1 11.5 34.4





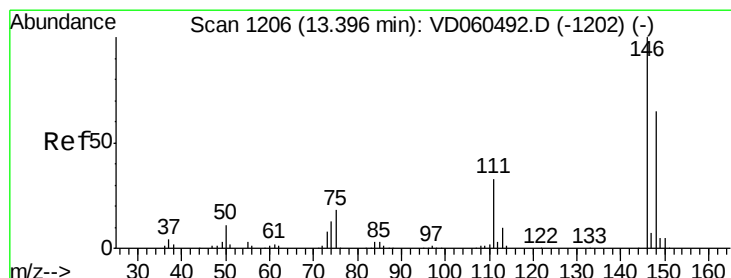
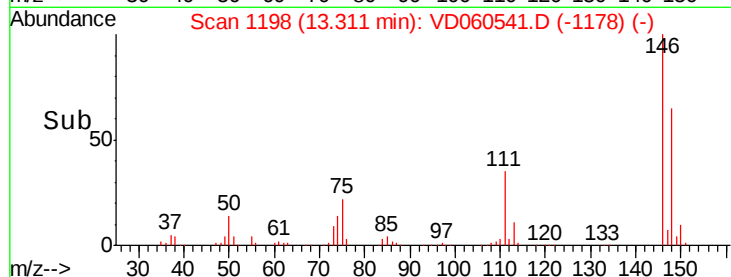
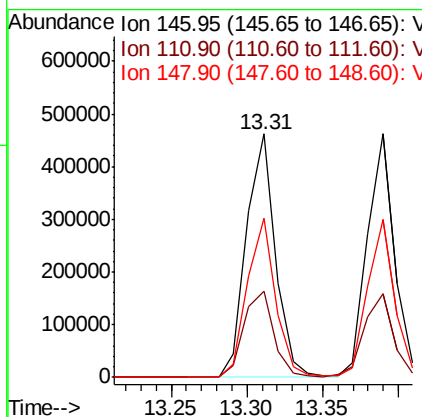
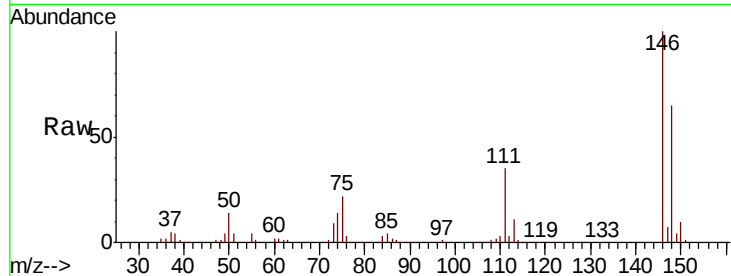
#87
 1,3-Dichlorobenzene
 Concen: 21.348 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.4	16.5	49.5
148	65.1	32.3	96.8

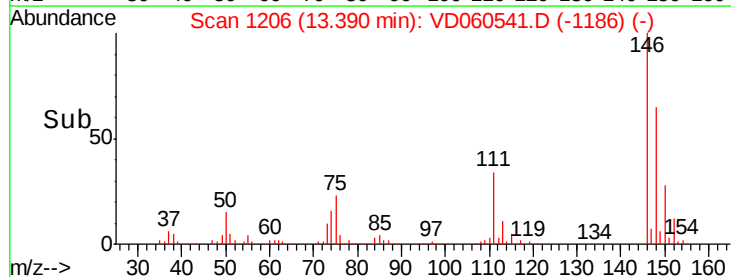
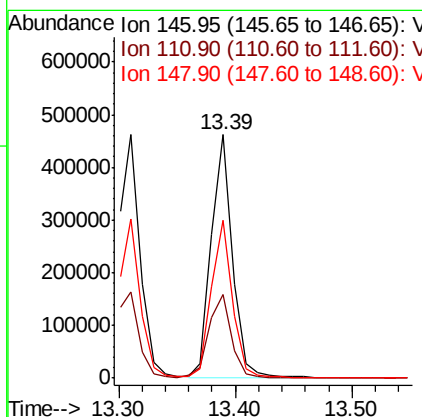
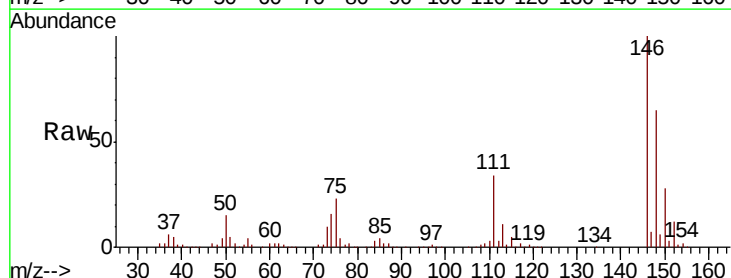
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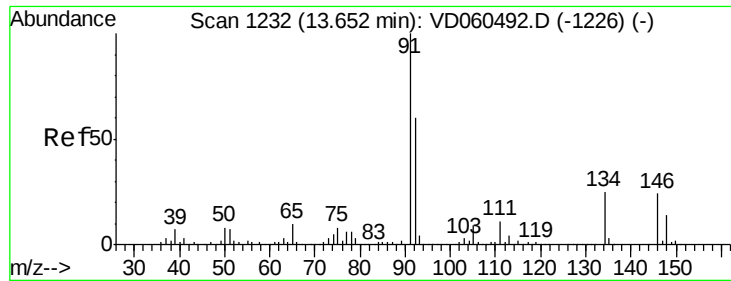
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#88
 1,4-Dichlorobenzene
 Concen: 20.528 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.1	16.4	49.1
148	64.9	32.6	98.0





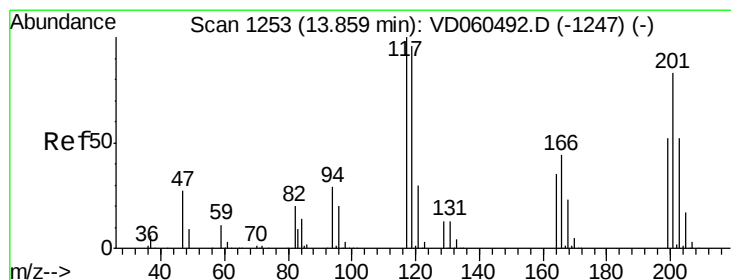
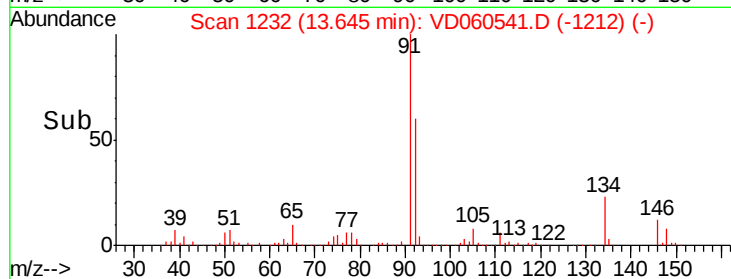
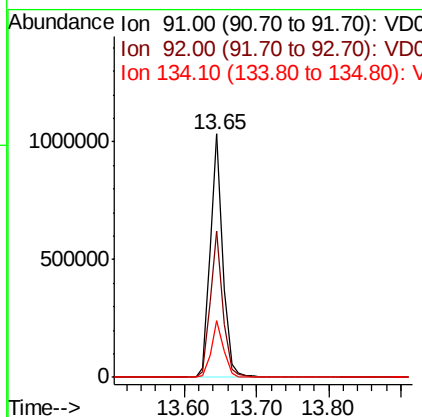
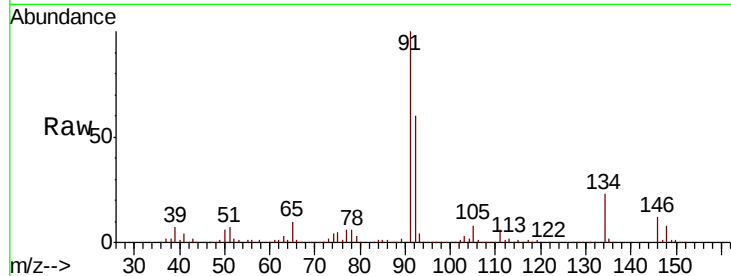
#89
n-Butylbenzene
Concen: 21.784 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion: 91 Resp: 1238582
Ion Ratio Lower Upper
91 100
92 59.9 30.0 90.1
134 23.4 12.5 37.5

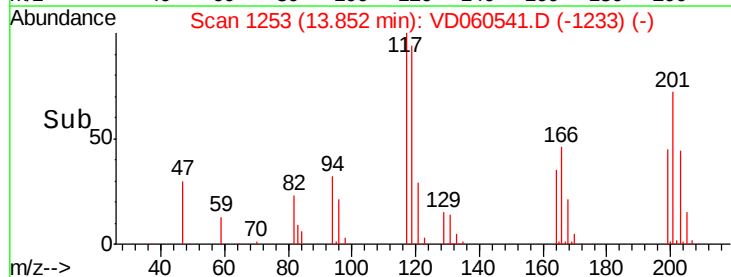
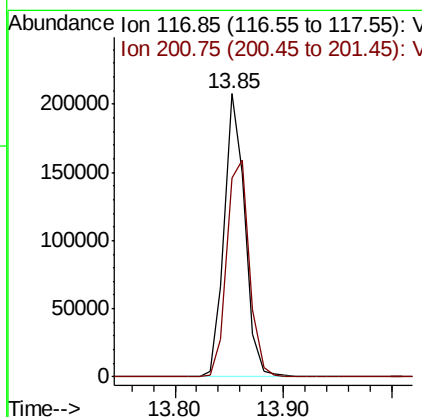
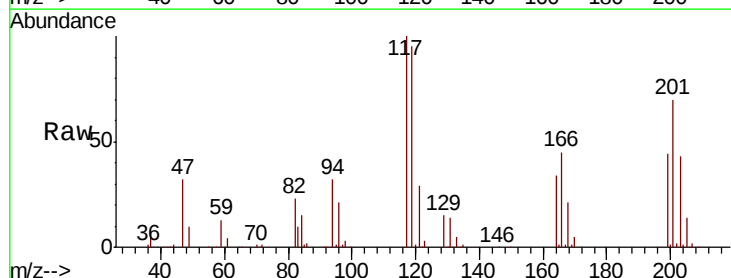
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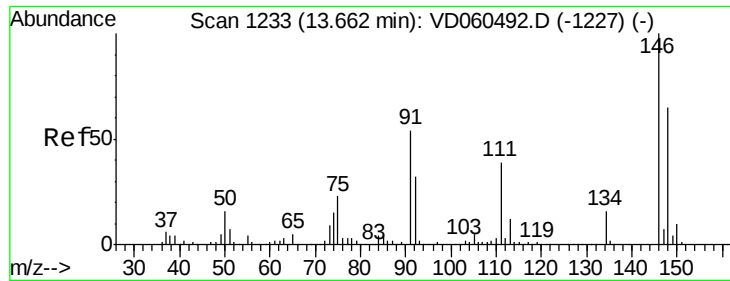
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#90
Hexachloroethane
Concen: 21.439 ug/l
RT: 13.85 min Scan# 1253
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion: 117 Resp: 276349
Ion Ratio Lower Upper
117 100
201 70.3 41.3 123.9





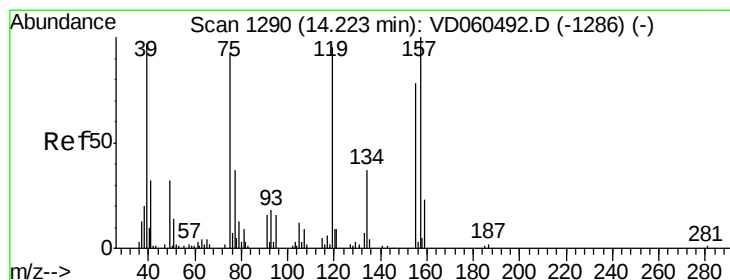
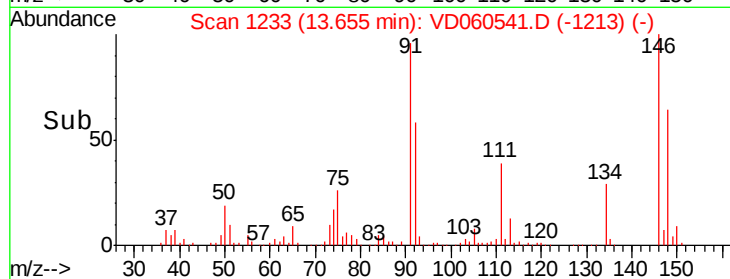
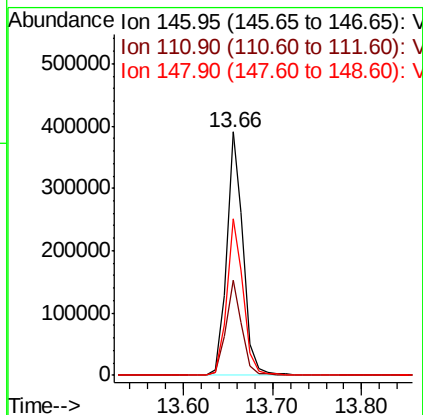
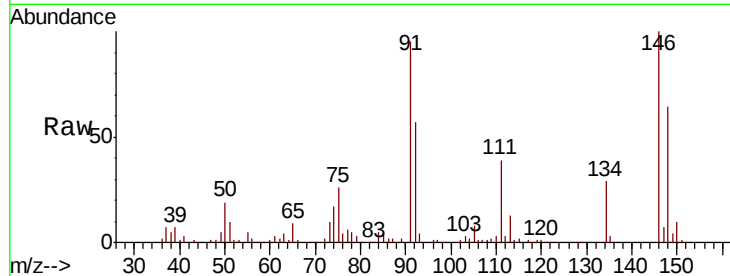
#91
 1,2-Dichlorobenzene
 Concen: 21.682 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.3	57.8
148	64.3	32.3	96.8

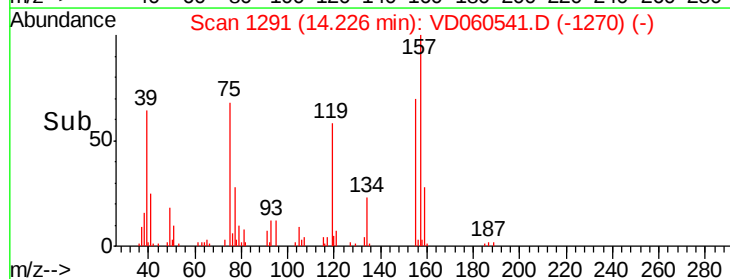
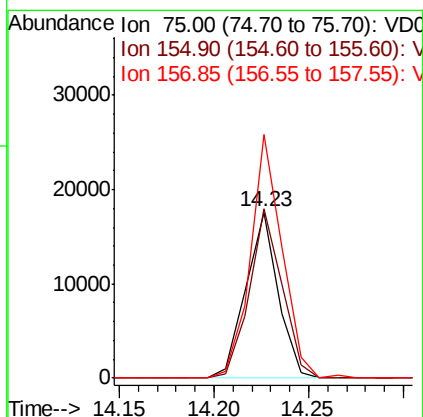
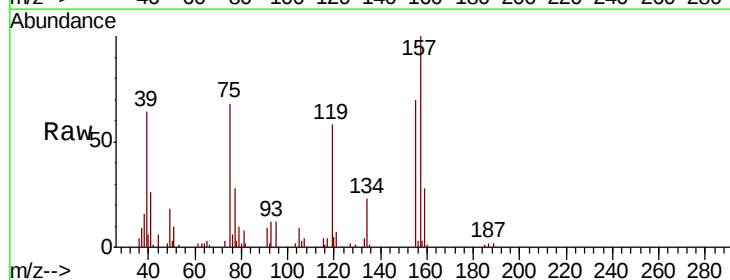
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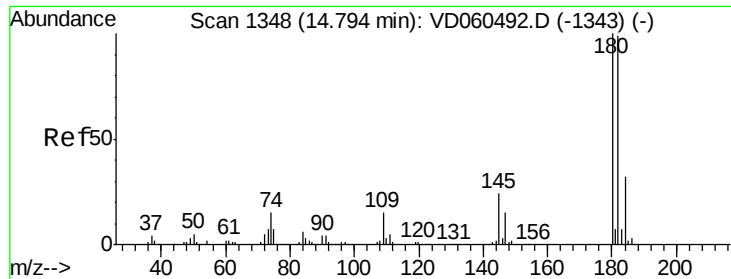
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.667 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.2	41.6	124.9
157	146.7	53.6	160.8





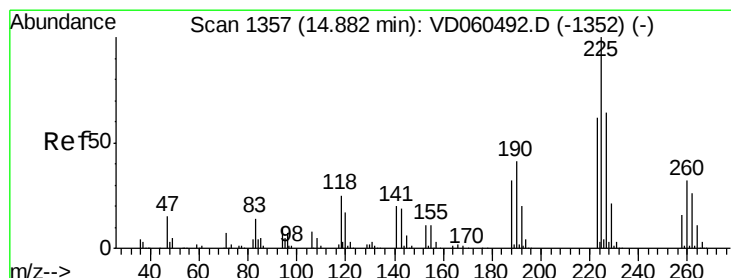
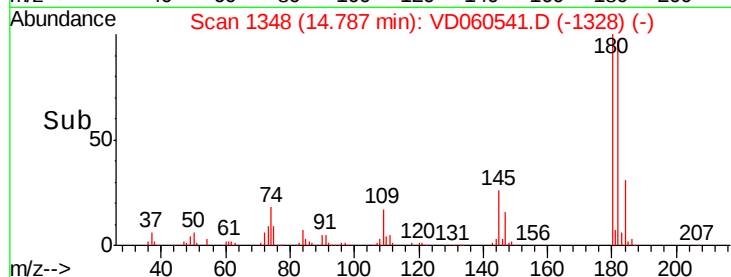
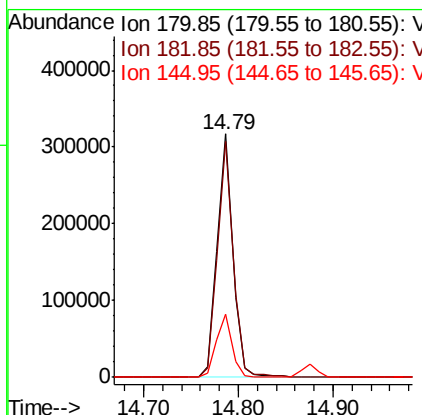
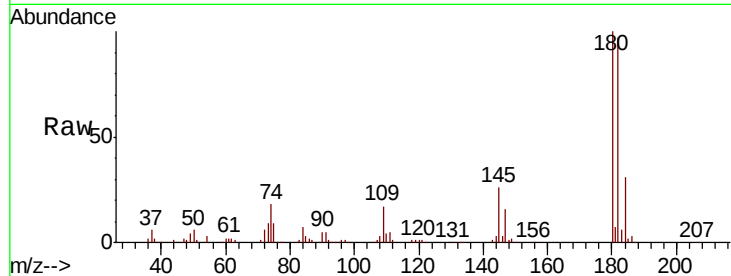
#93
 1,2,4-Trichlorobenzene
 Concen: 20.069 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1212SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	370592		
182	97.2	49.4	148.0	
145	25.9	11.9	35.9	

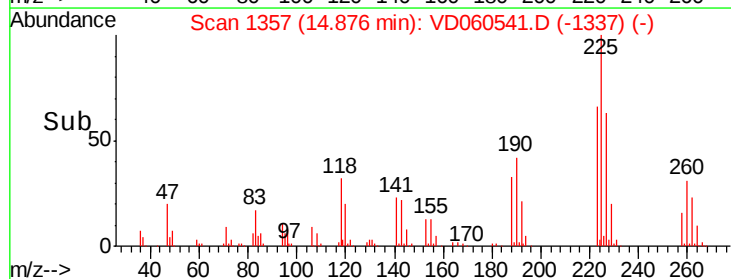
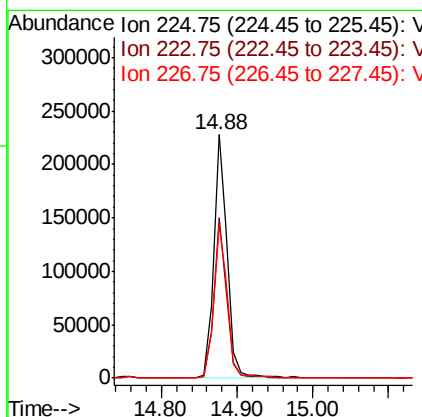
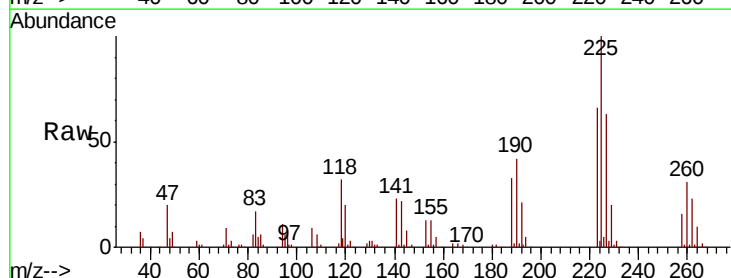
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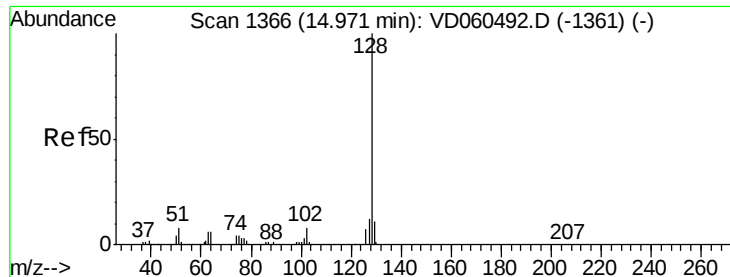
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#94
 Hexachlorobutadiene
 Concen: 21.242 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VD060541.D
 Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	289401		
223	65.9	31.2	93.6	
227	62.7	32.0	96.0	





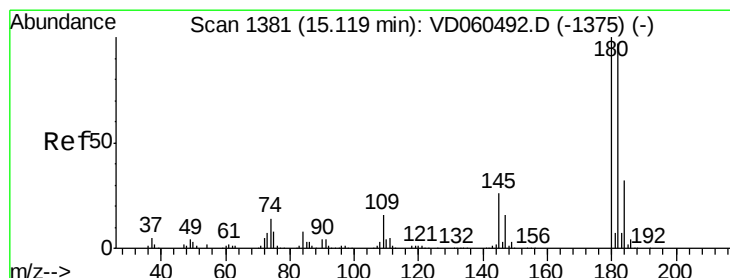
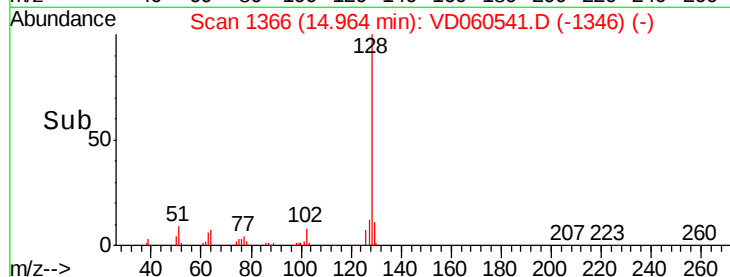
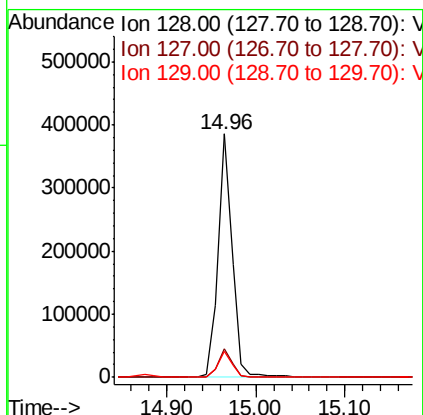
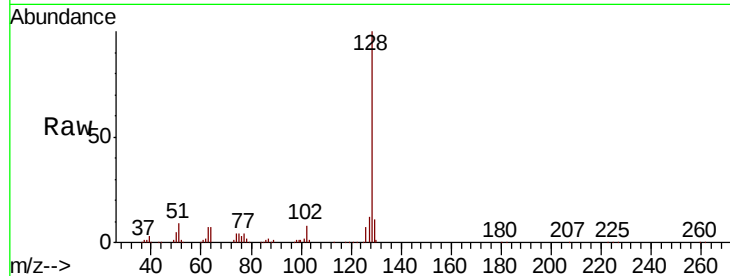
#95
Naphthalene
Concen: 19.584 ug/l
RT: 14.96 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD1212SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	9.8	14.8
129	10.6	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 20.020 ug/l
RT: 15.11 min Scan# 1381
Delta R.T. -0.01 min
Lab File: VD060541.D
Acq: 12 Dec 2018 12:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.5	145.5
145	26.9	12.9	38.7

