

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103118\
 Data File : VD060243.D
 Acq On : 31 Oct 2018 15:55
 Operator : VA/AP
 Sample : VD1031SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/1/2018 11:59:28 AM

Quant Time: Nov 01 00:18:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1442872	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.45	114	1998657	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.29	117	1648065	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	894427	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	588520	53.81	ug/l	0.03
Spiked Amount	50.000		Recovery	=	107.62%	
35) Dibromofluoromethane	6.33	113	833482	54.92	ug/l	0.03
Spiked Amount	50.000		Recovery	=	109.84%	
50) Toluene-d8	9.46	98	2301905	53.19	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.38%	
62) 4-Bromofluorobenzene	12.43	95	863541	53.29	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	265380	19.553	ug/l	99
3) Chloromethane	1.76	50	273562	22.352	ug/l	100
4) Vinyl Chloride	1.85	62	215668	21.533	ug/l	98
5) Bromomethane	2.13	94	21023	16.716	ug/l	97
6) Chloroethane	2.24	64	49025	17.937	ug/l	93
7) Trichlorofluoromethane	2.50	101	252597	21.062	ug/l	100
8) Diethyl Ether	2.82	74	58864	23.870	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.08	101	175522	23.493	ug/l	99
10) Methyl Iodide	3.25	142	151263	19.091	ug/l	96
11) Tert butyl alcohol	3.98	59	88697	113.076	ug/l	96
12) 1,1-Dichloroethene	3.07	96	136520	23.195	ug/l	96
13) Acrolein	2.98	56	33768	69.835	ug/l	95
14) Allyl chloride	3.53	41	276162	22.591	ug/l	99
15) Acrylonitrile	4.08	53	374913	115.474	ug/l	98
16) Acetone	3.16	43	277243	139.698	ug/l	98
17) Carbon Disulfide	3.30	76	411720	20.801	ug/l	100
18) Methyl Acetate	3.56	43	95001	22.272	ug/l	94
19) Methyl tert-butyl Ether	4.12	73	596121	23.035	ug/l	97
20) Methylene Chloride	3.72	84	426820	25.189	ug/l	98
21) trans-1,2-Dichloroethene	4.09	96	333420	21.934	ug/l	98
22) Diisopropyl ether	4.86	45	1282592	23.494	ug/l	99
23) Vinyl Acetate	4.80	43	3666128	119.468	ug/l	100
24) 1,1-Dichloroethane	4.75	63	572605	23.133	ug/l	100
25) 2-Butanone	5.63	43	648433	130.785	ug/l	97
26) 2,2-Dichloropropane	5.59	77	451284	24.049	ug/l	98
27) cis-1,2-Dichloroethene	5.59	96	373813	23.210	ug/l	92
28) Bromochloromethane	5.92	49	266470	22.153	ug/l	97
29) Tetrahydrofuran	5.95	42	344817	119.734	ug/l	99
30) Chloroform	6.10	83	582049	23.246	ug/l	96
31) Cyclohexane	6.37	56	527238	22.251	ug/l	100
32) 1,1,1-Trichloroethane	6.30	97	478639	23.333	ug/l	98
36) 1,1-Dichloropropene	6.52	75	432006	22.619	ug/l	96
37) Ethyl Acetate	5.70	43	296152	23.361	ug/l	99
38) Carbon Tetrachloride	6.50	117	401104	23.139	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.04	83	479287	22.087	ug/l	98
40) Benzene	6.80	78	1120163	22.419	ug/l	100
41) Methacrylonitrile	5.92	41	140898m	19.664	ug/l	
42) 1,2-Dichloroethane	6.90	62	327988	22.896	ug/l	99
43) Isopropyl Acetate	8.35	43	371557	22.278	ug/l #	99
44) Trichloroethene	7.74	130	342029	22.113	ug/l	97
45) 1,2-Dichloropropane	8.11	63	297533	22.742	ug/l	99
46) Dibromomethane	8.22	93	189364	22.356	ug/l	90
47) Bromodichloromethane	8.49	83	416978	23.104	ug/l	98
48) Methyl methacrylate	8.24	41	217106	22.853	ug/l	98
49) 1,4-Dioxane	8.23	88	43219	462.365	ug/l #	87
51) 4-Methyl-2-Pentanone	9.35	43	1260026	119.781	ug/l	99
52) Toluene	9.55	92	712487	22.141	ug/l	98
53) t-1,3-Dichloropropene	9.92	75	378184	23.158	ug/l	98
54) cis-1,3-Dichloropropene	9.10	75	465916	23.104	ug/l	97
55) 1,1,2-Trichloroethane	10.18	97	246137	23.397	ug/l	99
56) Ethyl methacrylate	10.04	69	268637	23.133	ug/l	98
57) 1,3-Dichloropropane	10.39	76	371193	23.135	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.92	63	785321	121.782	ug/l	96
59) 2-Hexanone	10.49	43	949213	125.486	ug/l	100
60) Dibromochloromethane	10.65	129	290385	22.498	ug/l	96
61) 1,2-Dibromoethane	10.76	107	252619	22.600	ug/l	95
64) Tetrachloroethene	10.25	164	314551	21.791	ug/l	99
65) Chlorobenzene	11.32	112	821529	23.042	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	274718	23.097	ug/l	98
67) Ethyl Benzene	11.43	91	1394233	24.136	ug/l	99
68) m/p-Xylenes	11.57	106	1014138	46.987	ug/l	100
69) o-Xylene	11.93	106	486319	22.780	ug/l	91
70) Styrene	11.95	104	814661	22.819	ug/l	97
71) Bromoform	12.12	173	216783	22.508	ug/l	97
73) Isopropylbenzene	12.28	105	1349107	22.863	ug/l	99
74) N-amyl acetate	12.13	43	490371	22.688	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.56	83	287926	22.351	ug/l	97
76) 1,2,3-Trichloropropane	12.59	75	293163	22.760	ug/l	98
77) Bromobenzene	12.55	156	374712	21.853	ug/l	86
78) n-propylbenzene	12.64	91	1738836	23.732	ug/l	96
79) 2-Chlorotoluene	12.71	91	936380	23.027	ug/l	96
80) 1,3,5-Trimethylbenzene	12.79	105	1078537	23.616	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.35	75	78108	21.581	ug/l	95
82) 4-Chlorotoluene	12.81	91	1077307	23.422	ug/l	96
83) tert-Butylbenzene	13.05	119	1228198	23.436	ug/l	98
84) 1,2,4-Trimethylbenzene	13.10	105	1118657	23.241	ug/l	98
85) sec-Butylbenzene	13.22	105	1471477	23.747	ug/l	99
86) p-Isopropyltoluene	13.34	119	1176439	23.147	ug/l	99
87) 1,3-Dichlorobenzene	13.31	146	671467	22.476	ug/l	98
88) 1,4-Dichlorobenzene	13.39	146	681439	22.709	ug/l	99
89) n-Butylbenzene	13.65	91	1172129	23.636	ug/l	99
90) Hexachloroethane	13.86	117	273875	23.284	ug/l	70
91) 1,2-Dichlorobenzene	13.67	146	574188	22.858	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.23	75	38861	22.593	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	468091	21.954	ug/l	98
94) Hexachlorobutadiene	14.88	225	315184	22.239	ug/l	99
95) Naphthalene	14.97	128	699900	22.146	ug/l	100
96) 1,2,3-Trichlorobenzene	15.11	180	407888	21.992	ug/l	99

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

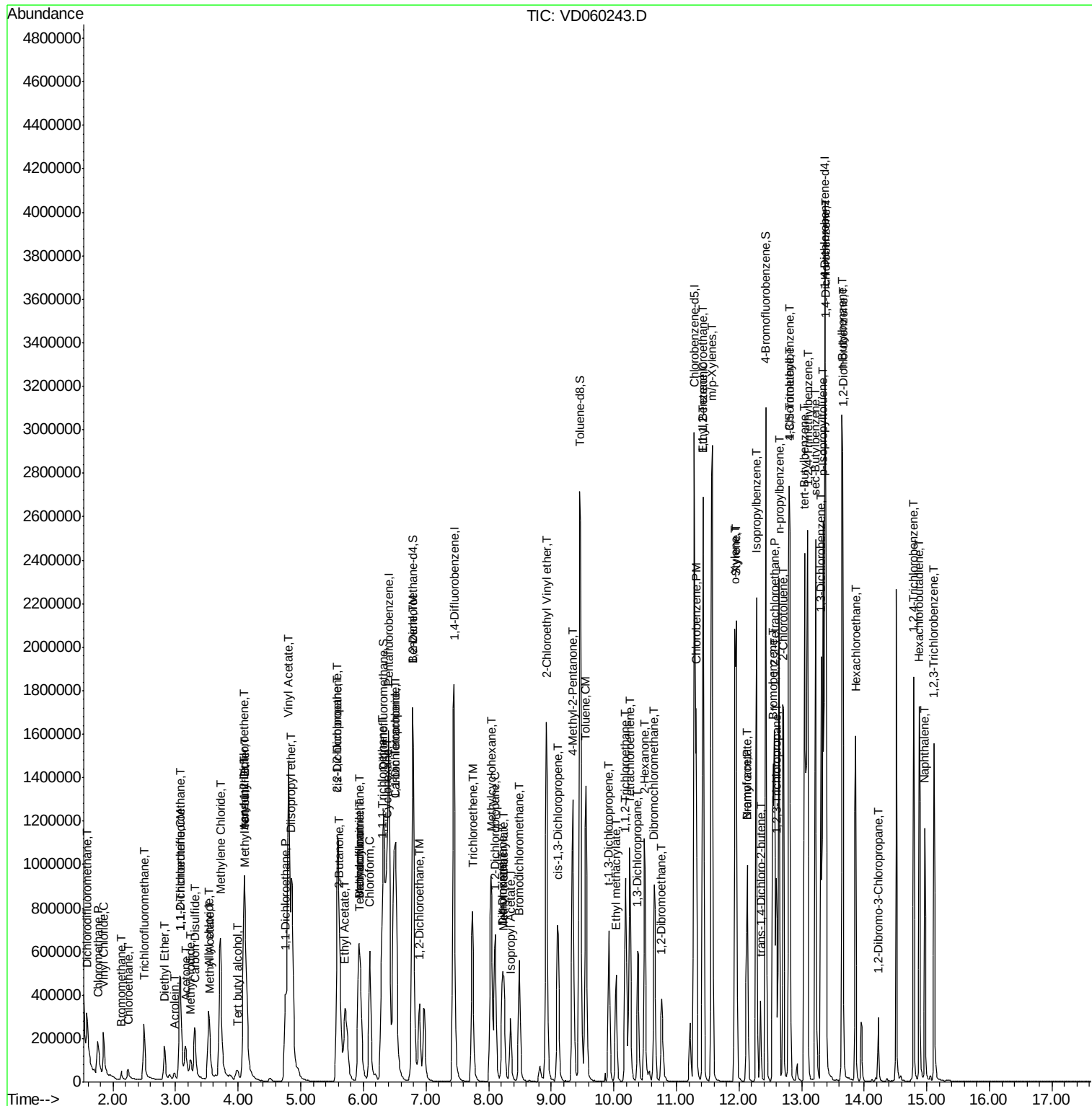
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD103118\
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Operator : VA/AP
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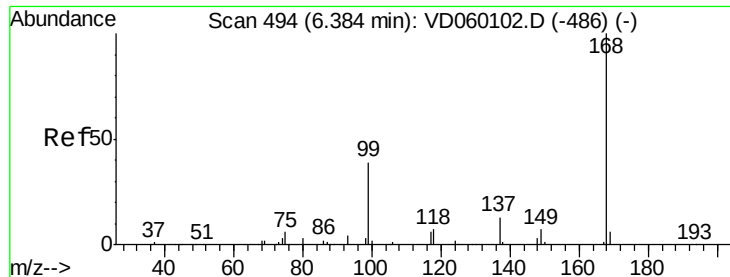
Instrument :
MSVOA_D
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion:168 Resp: 1442872

Ion Ratio Lower Upper

168 100

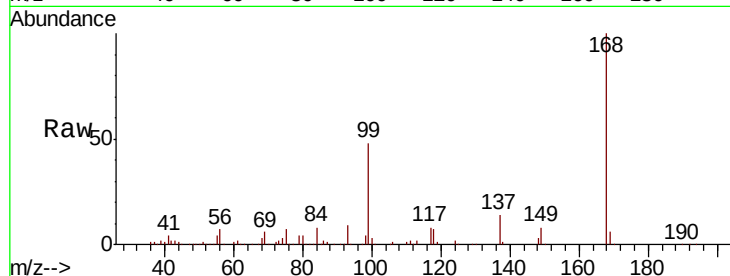
99 48.1 35.4 53.0

Manual Integrations

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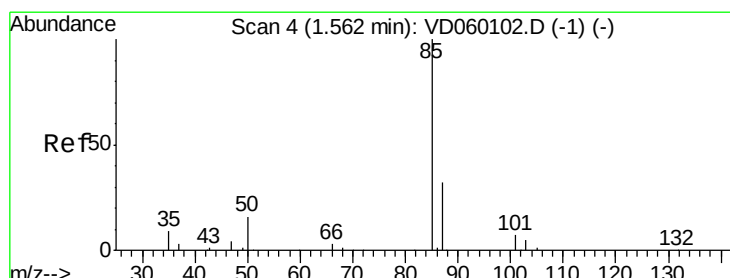
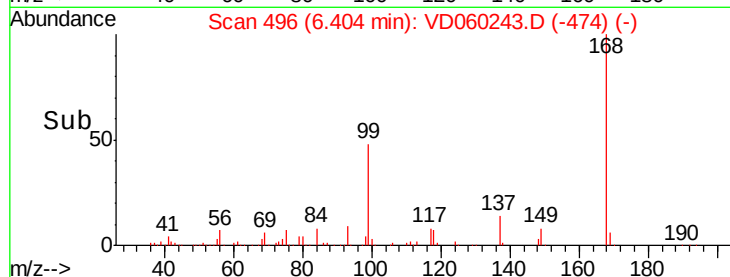
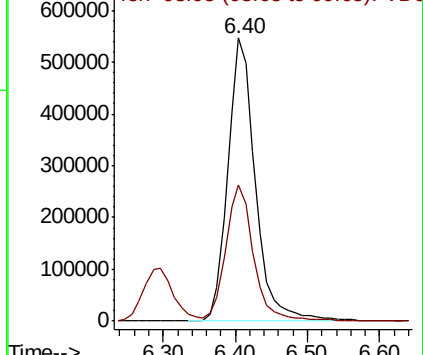
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.553 ug/l

RT: 1.58 min Scan# 6

Delta R.T. 0.02 min

Lab File: VD060243.D

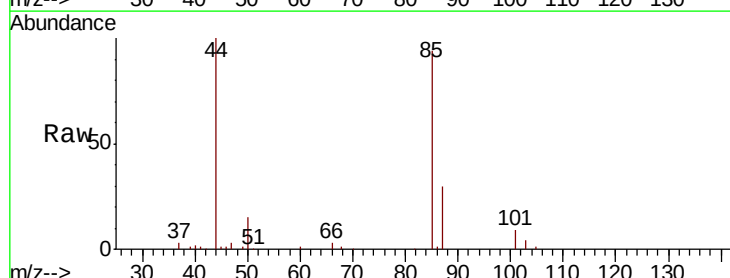
Acq: 31 Oct 2018 15:55

Tgt Ion: 85 Resp: 265380

Ion Ratio Lower Upper

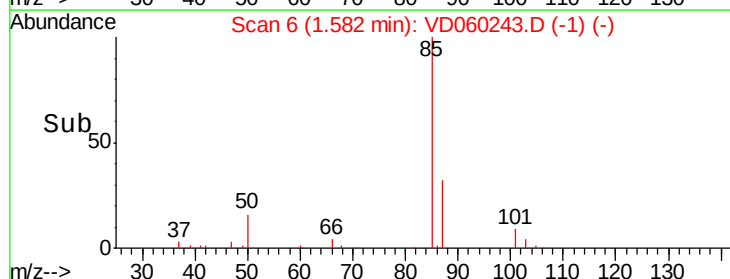
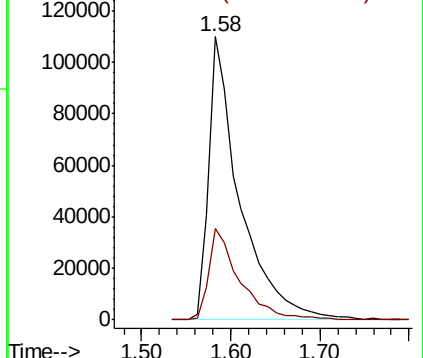
85 100

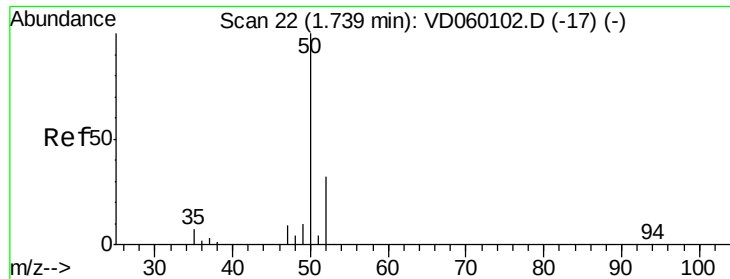
87 32.3 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.352 ug/l

RT: 1.76 min Scan# 24

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 50 Resp: 273562

Ion Ratio Lower Upper

50 100

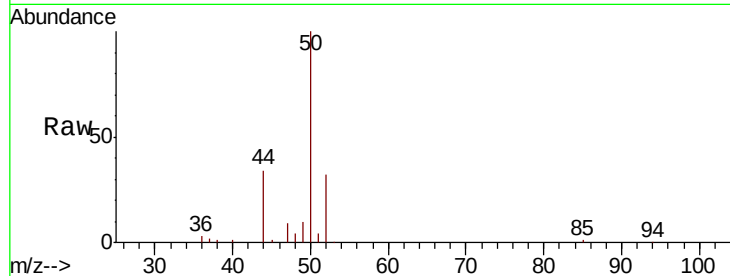
52 31.7 25.3 37.9

Manual Integrations

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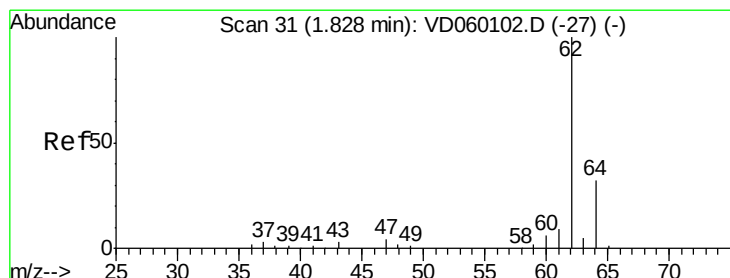
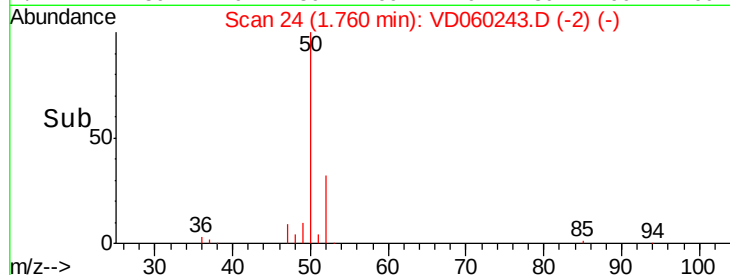
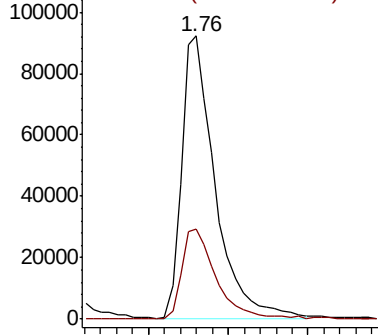
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.533 ug/l

RT: 1.85 min Scan# 33

Delta R.T. 0.02 min

Lab File: VD060243.D

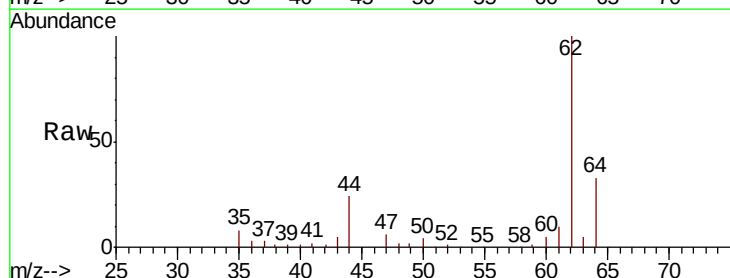
Acq: 31 Oct 2018 15:55

Tgt Ion: 62 Resp: 215668

Ion Ratio Lower Upper

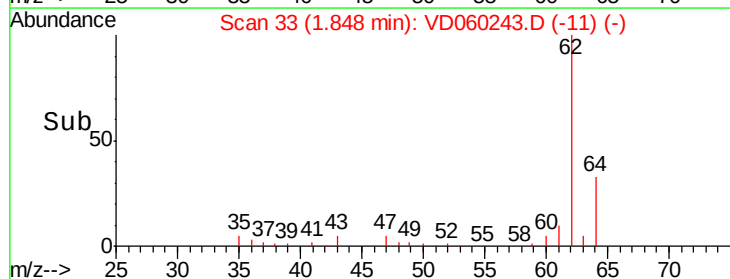
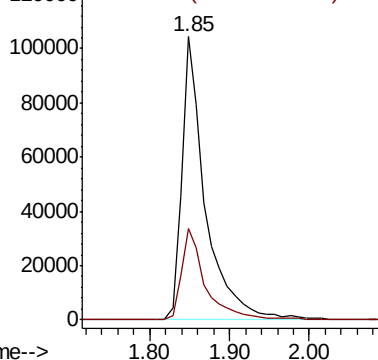
62 100

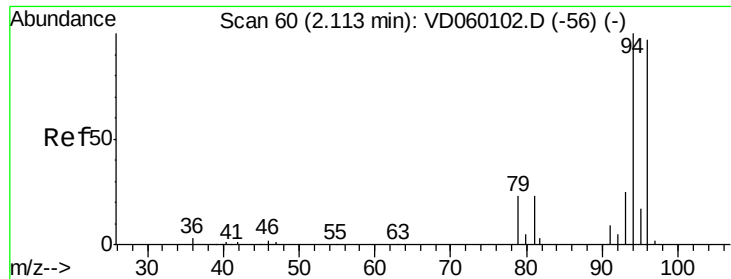
64 32.5 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.716 ug/l

RT: 2.13 min Scan# 62

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 94 Resp: 21023

Ion Ratio Lower Upper

94 100

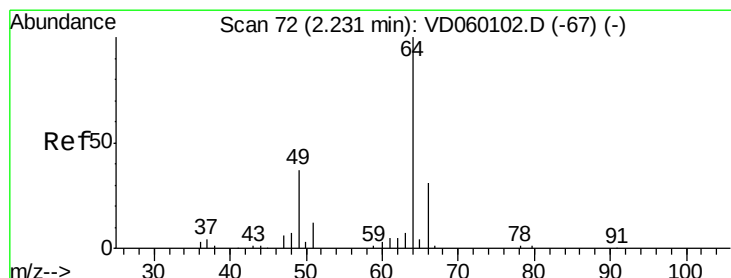
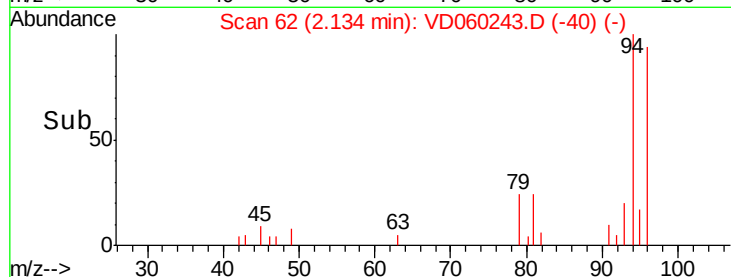
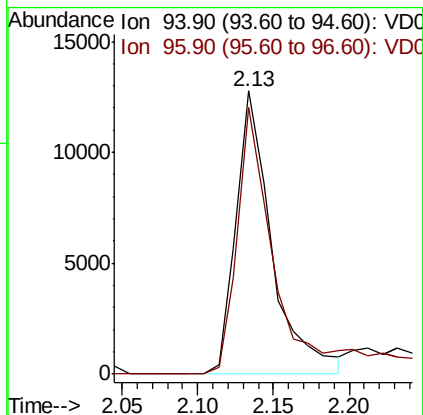
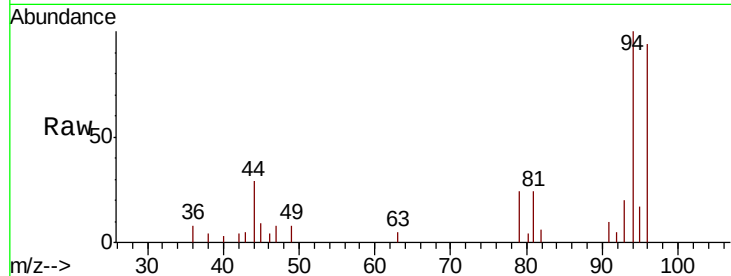
96 94.3 77.4 116.2

Manual Integrations

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#6

Chloroethane

Concen: 17.937 ug/l

RT: 2.24 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD060243.D

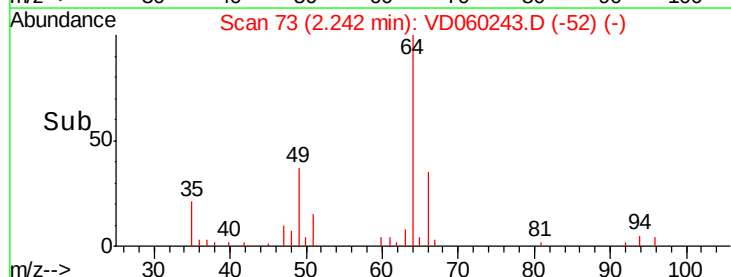
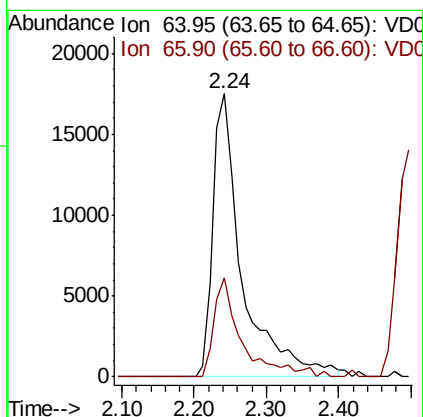
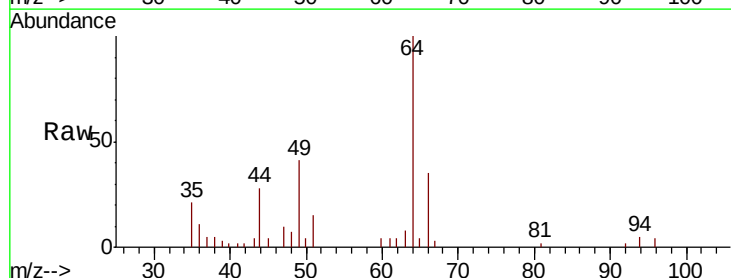
Acq: 31 Oct 2018 15:55

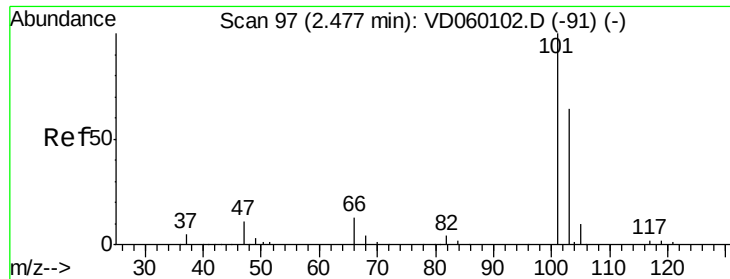
Tgt Ion: 64 Resp: 49025

Ion Ratio Lower Upper

64 100

66 34.8 24.6 37.0





#7

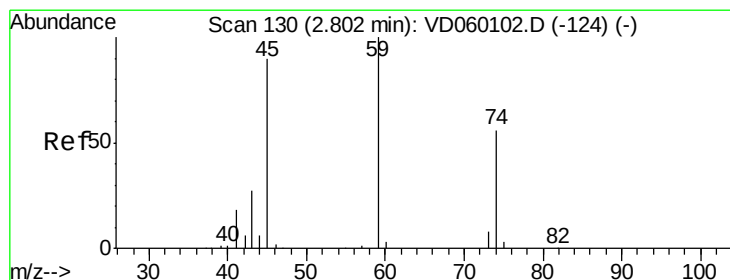
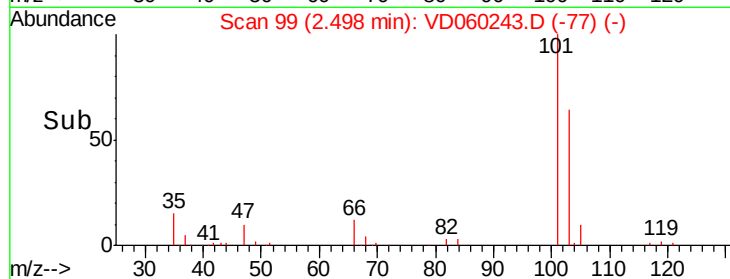
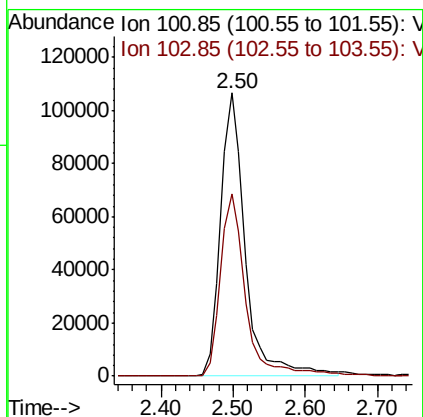
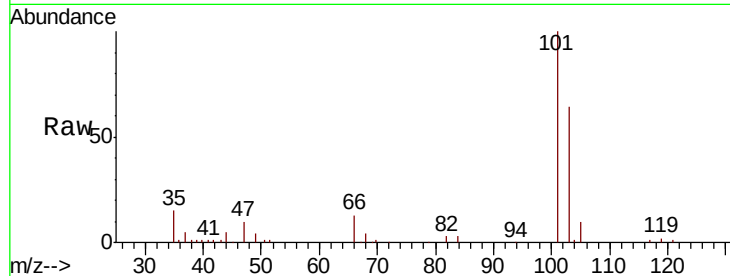
Trichlorofluoromethane
 Concen: 21.062 ug/l
 RT: 2.50 min Scan# 99
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
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 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.5	77.3

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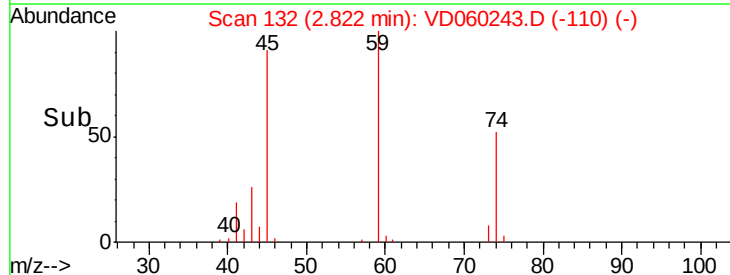
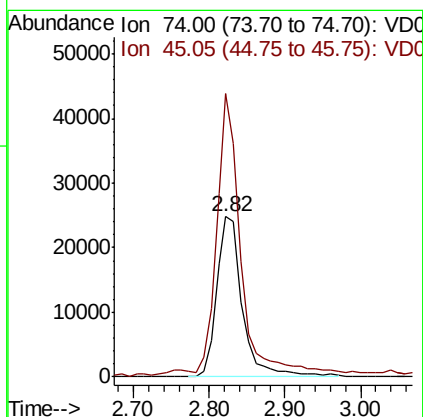
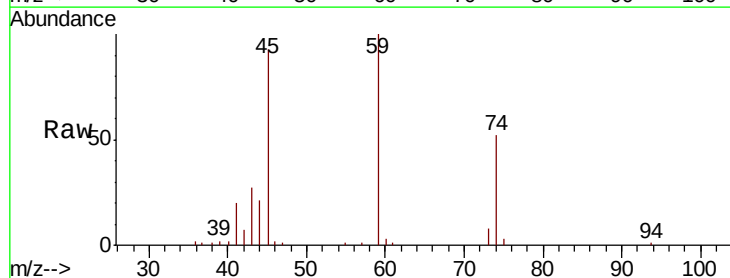
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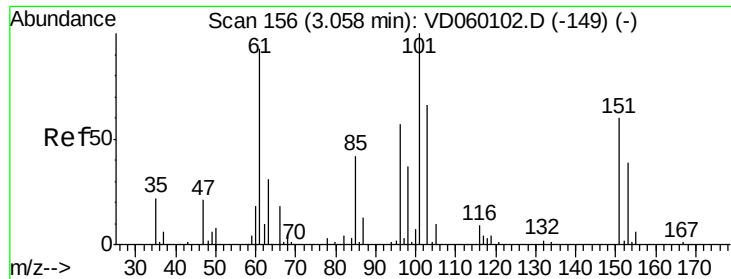


#8

Diethyl Ether
 Concen: 23.870 ug/l
 RT: 2.82 min Scan# 132
 Delta R.T. 0.02 min
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	177.0	80.3	241.0





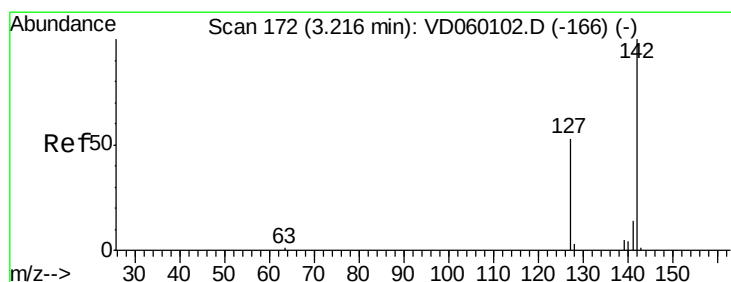
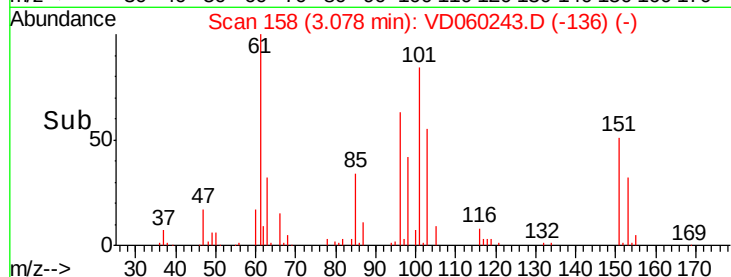
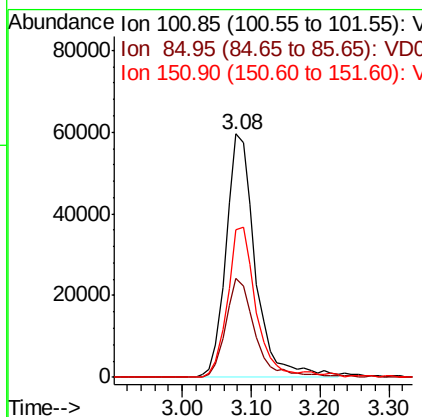
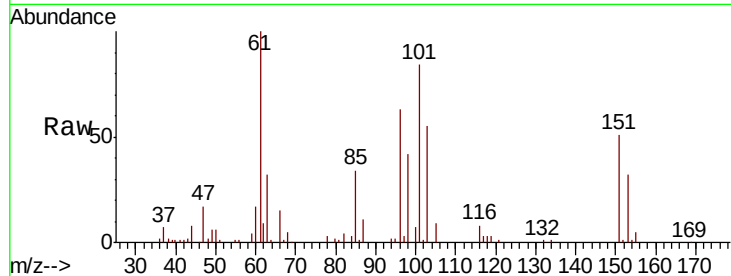
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 23.493 ug/l
 RT: 3.08 min Scan# 158
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	175522		
85	40.7	33.4	50.0	
151	60.5	48.0	72.0	

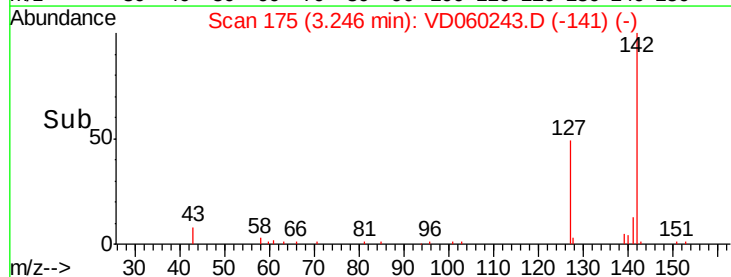
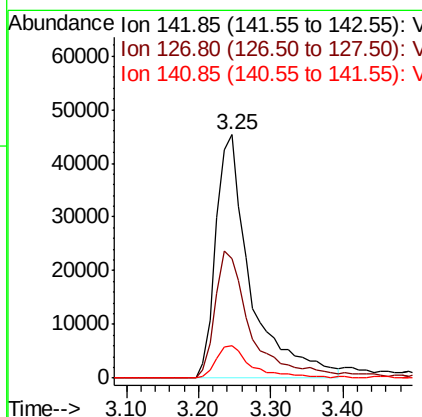
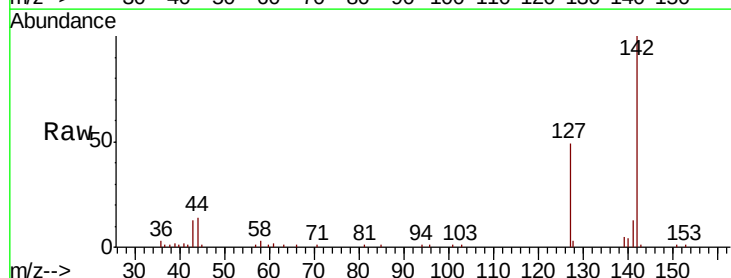
Manual Integrations
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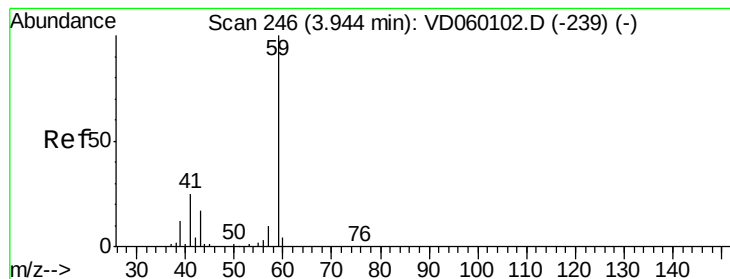
MMDadoda
 11/1/2018 11:59:28 AM



#10
 Methyl Iodide
 Concen: 19.091 ug/l
 RT: 3.25 min Scan# 175
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	151263		
127	49.1	42.0	63.0	
141	13.2	11.4	17.0	





#11

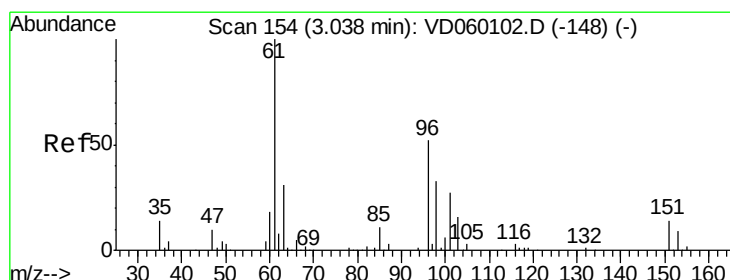
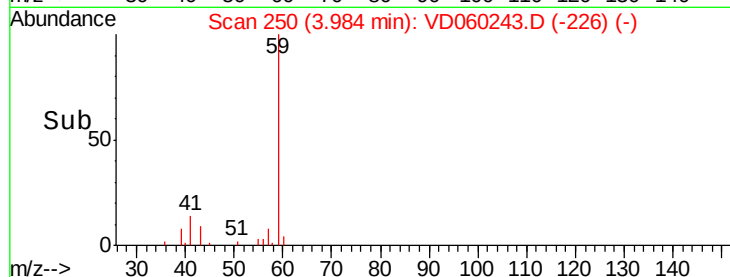
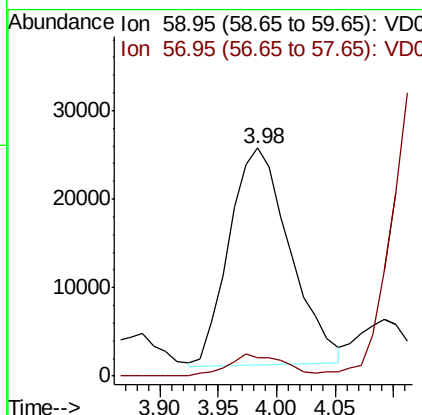
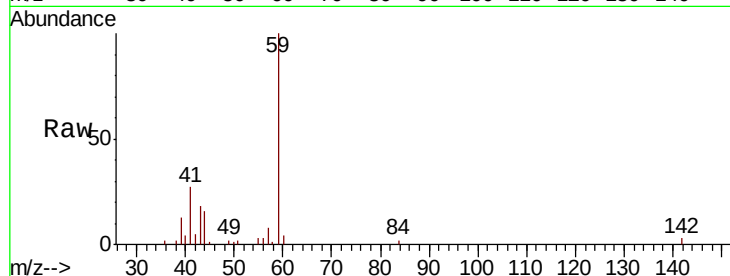
Tert butyl alcohol
 Concen: 113.076 ug/l
 RT: 3.98 min Scan# 250
 Delta R.T. 0.04 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBSD01

Tot Ion	59	Resp	88697
Ion Ratio	100	Lower	Upper
57	8.2	7.8	11.6

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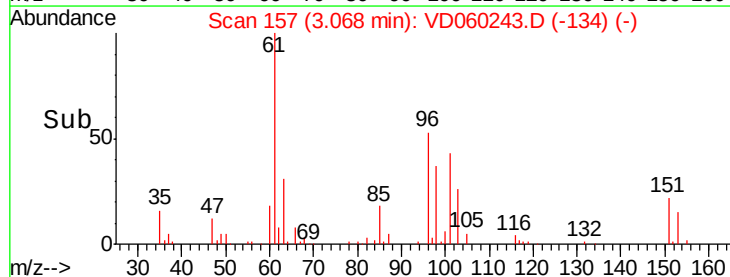
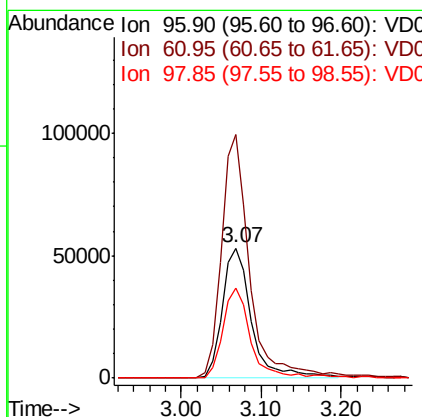
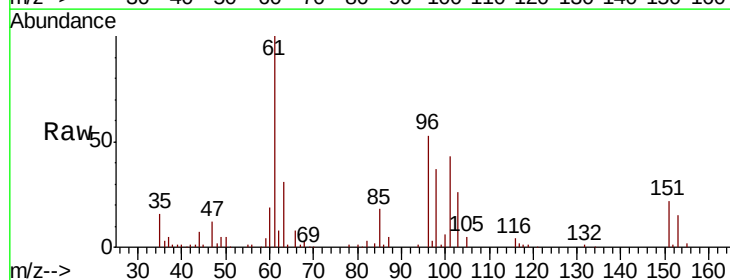
MMDadoda
 11/1/2018 11:59:28 AM

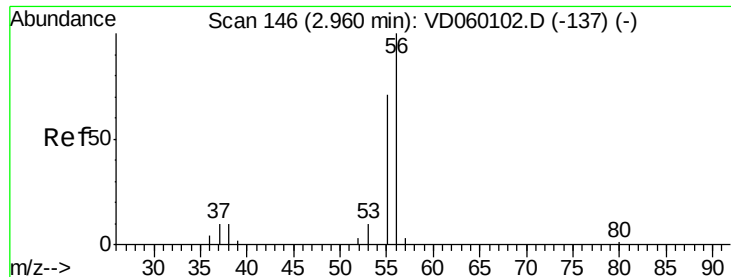


#12

1,1-Dichloroethene
 Concen: 23.195 ug/l
 RT: 3.07 min Scan# 157
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	96	Resp	136520
Ion Ratio	100	Lower	Upper
61	187.5	153.0	229.4
98	69.3	51.1	76.7





#13

Acrolein

Concen: 69.835 ug/l

RT: 2.98 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 56 Resp: 33768

Ion Ratio Lower Upper

56 100

55 76.3

57.4

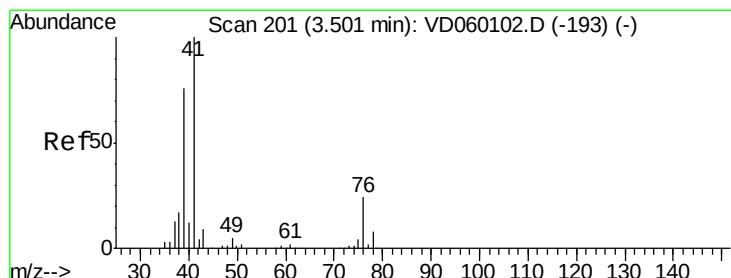
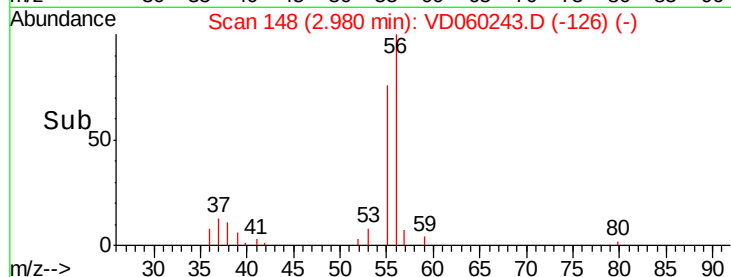
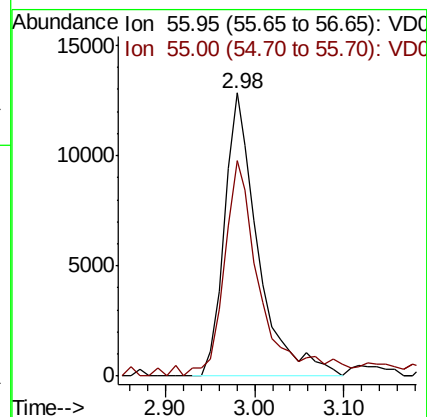
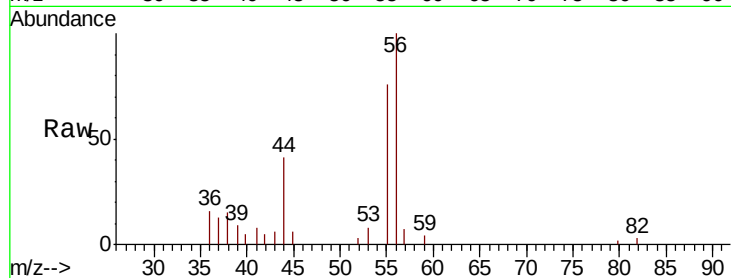
86.2

Manual Integrations

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#14

Allyl chloride

Concen: 22.591 ug/l

RT: 3.53 min Scan# 204

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion: 41 Resp: 276162

Ion Ratio Lower Upper

41 100

39 74.7

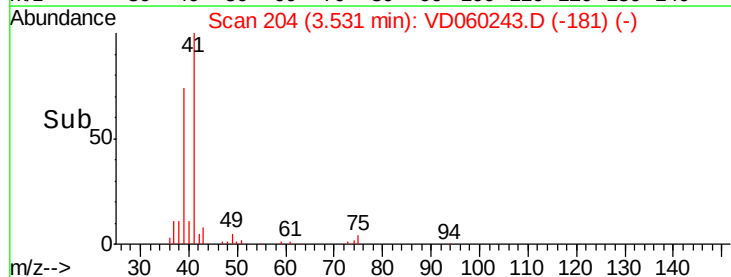
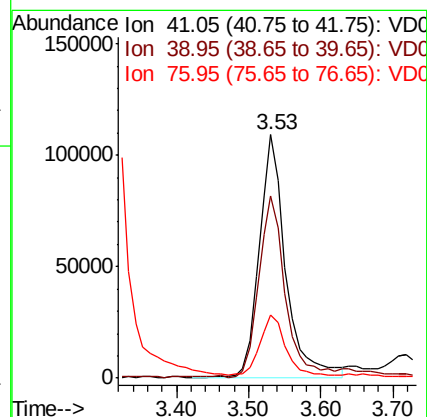
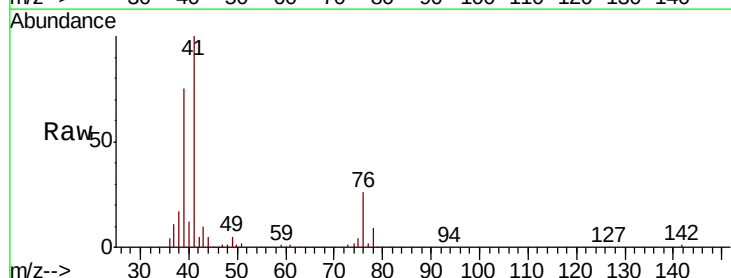
60.6

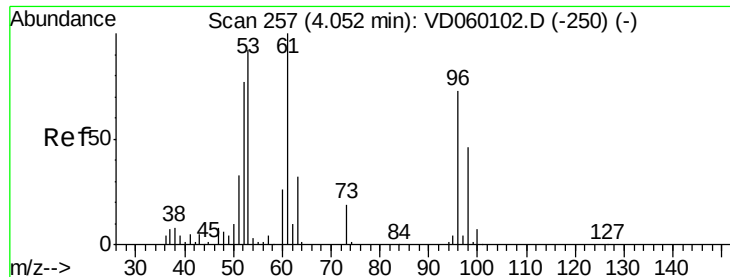
90.8

76 26.0

21.3

31.9





#15

Acrylonitrile

Concen: 115.474 ug/l

RT: 4.08 min Scan# 260

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

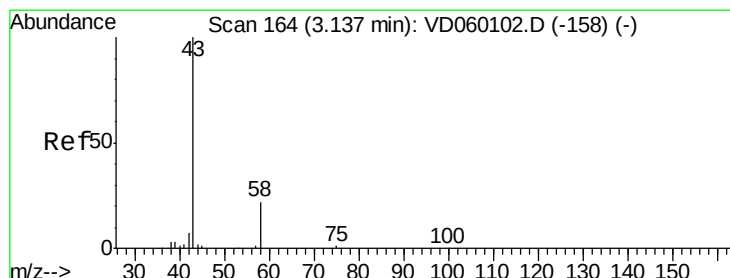
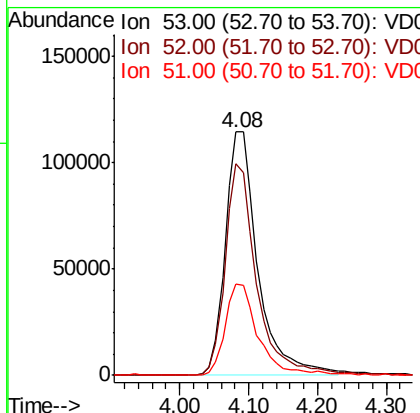
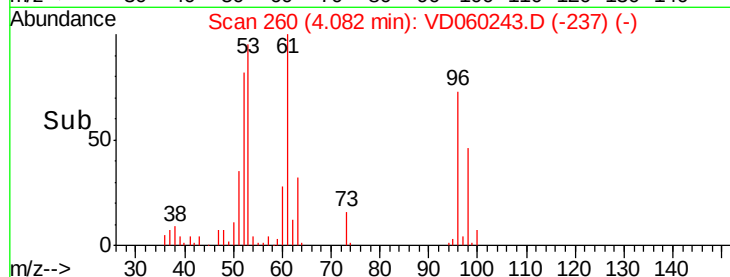
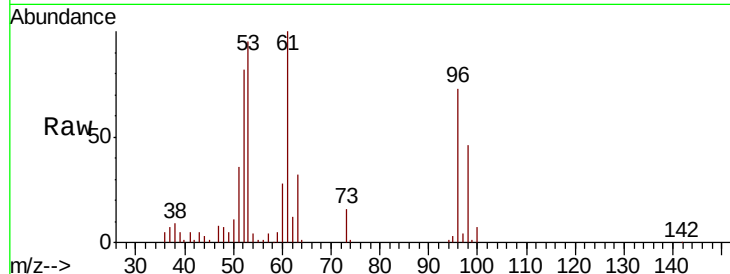
ClientSampleId :

VD1031SBS01

Tot Ion:	53	Resp:	374913
Ion Ratio	Lower	Upper	
53	100		
52	86.8	67.5	101.3
51	37.6	29.3	43.9

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#16

Acetone

Concen: 139.698 ug/l

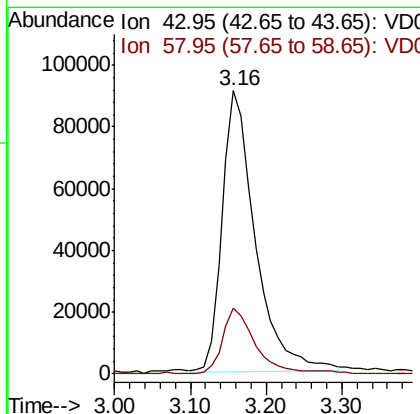
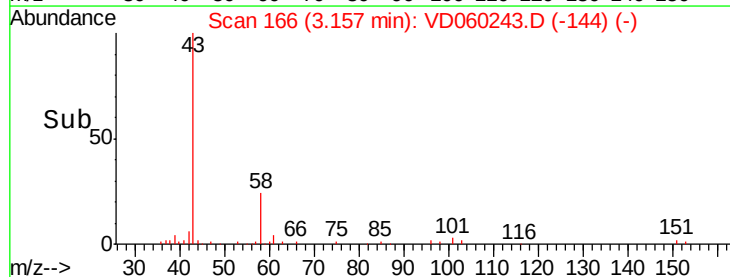
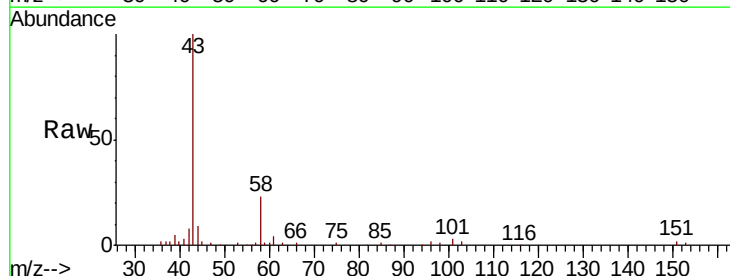
RT: 3.16 min Scan# 166

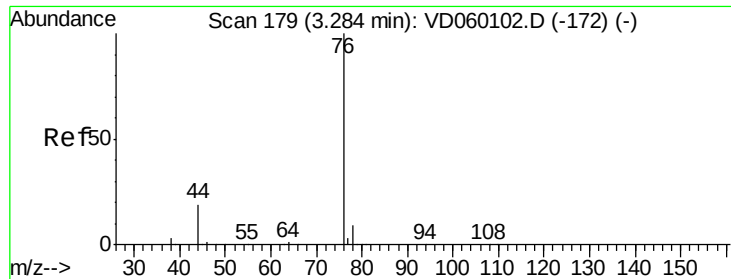
Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion:	43	Resp:	277243
Ion Ratio	Lower	Upper	
43	100		
58	23.2	17.7	26.5





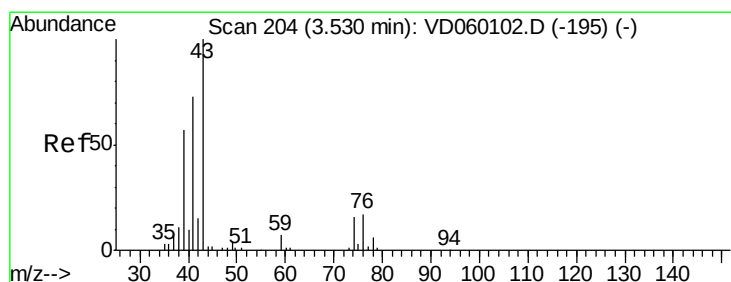
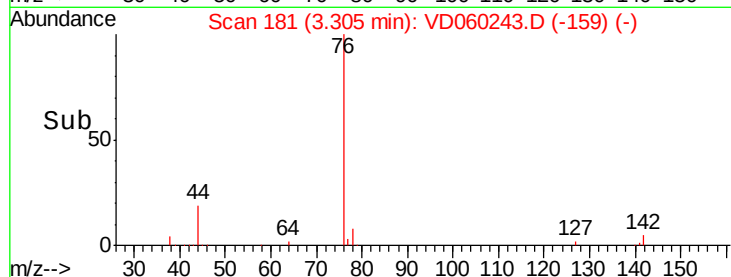
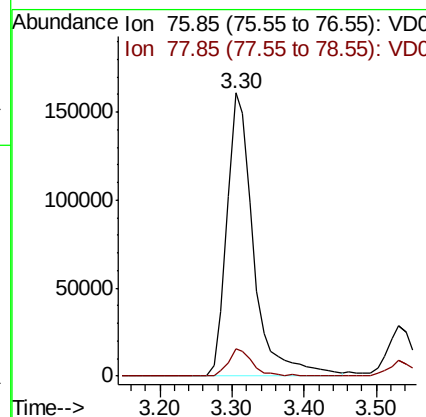
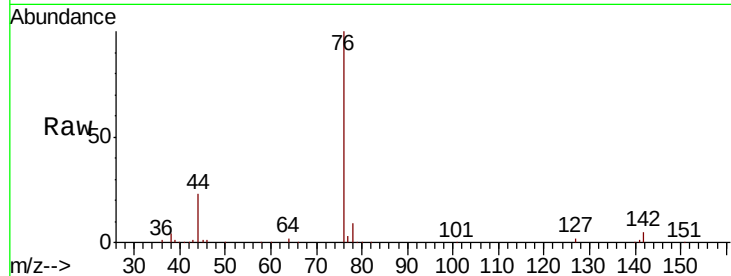
#17
Carbon Disulfide
Concen: 20.801 ug/l
RT: 3.30 min Scan# 181
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion: 76 Resp: 411720
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2

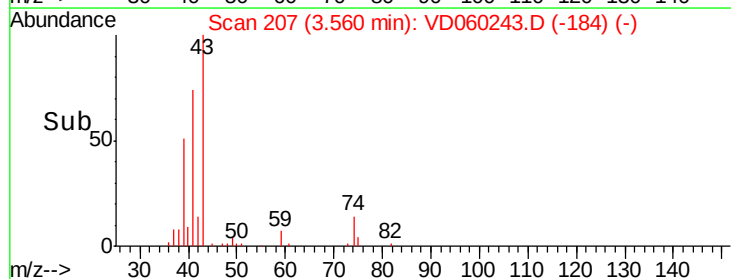
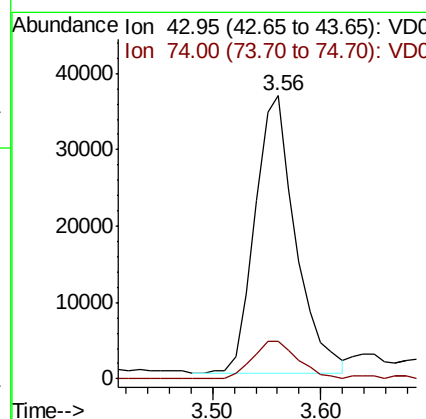
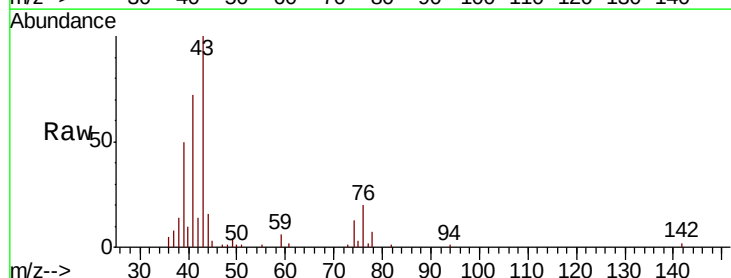
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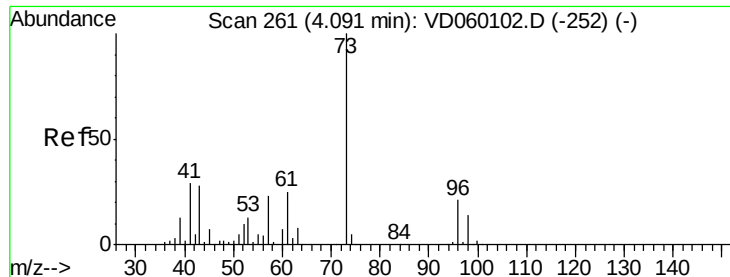
MMDadoda
11/1/2018 11:59:28 AM



#18
Methyl Acetate
Concen: 22.272 ug/l
RT: 3.56 min Scan# 207
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion: 43 Resp: 95001
Ion Ratio Lower Upper
43 100
74 13.2 12.6 19.0





#19

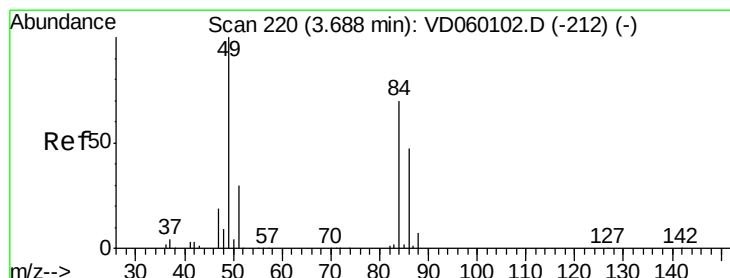
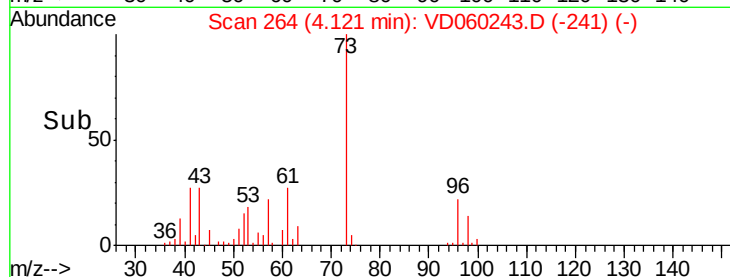
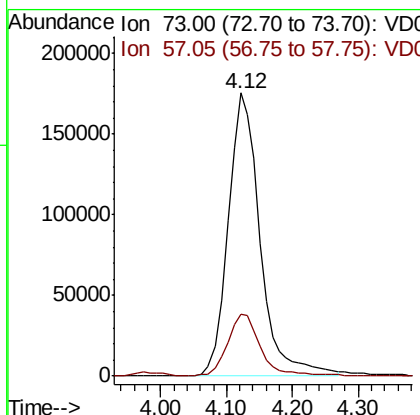
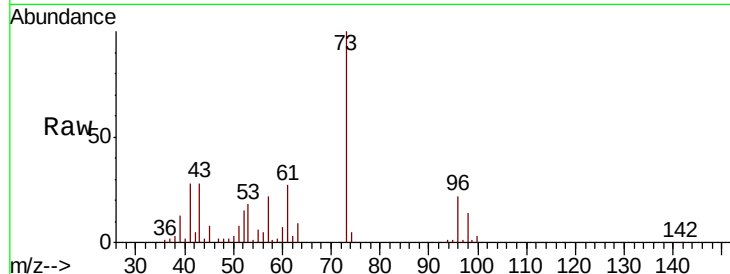
Methyl tert-butyl Ether
 Concen: 23.035 ug/l
 RT: 4.12 min Scan# 264
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.7	28.1

Manual Integrations
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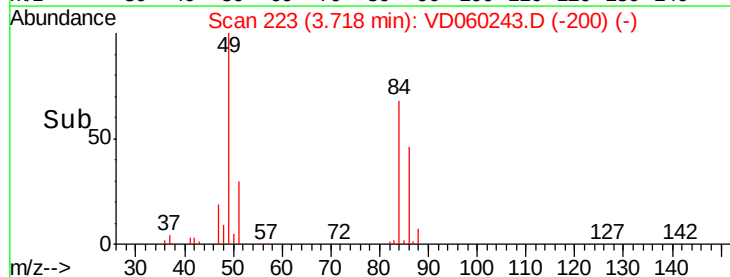
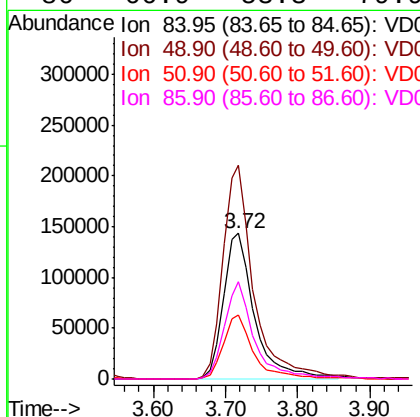
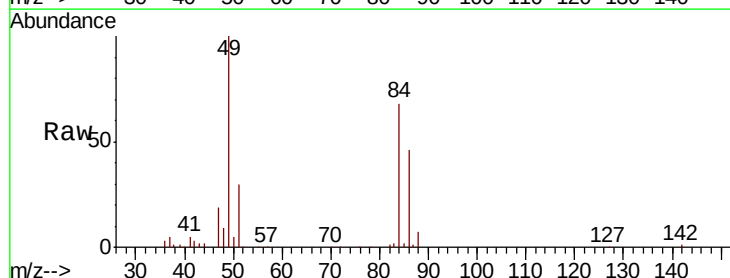
MMDadoda
 11/1/2018 11:59:28 AM

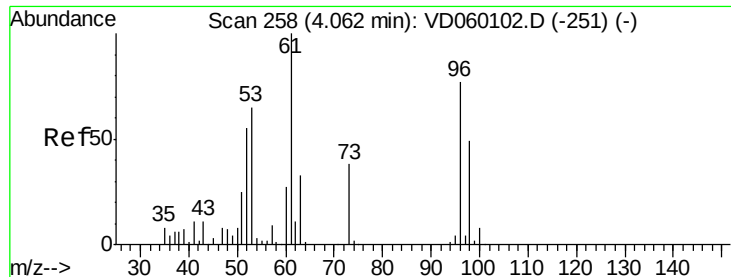


#20

Methylene Chloride
 Concen: 25.189 ug/l
 RT: 3.72 min Scan# 223
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.0	114.6	172.0
51	44.3	33.8	50.8
86	66.9	53.3	79.9





#21

trans-1,2-Dichloroethene

Concen: 21.934 ug/l

RT: 4.09 min Scan# 261

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 96 Resp: 333420

Ion Ratio Lower Upper

96 100

61 131.5 103.3 154.9

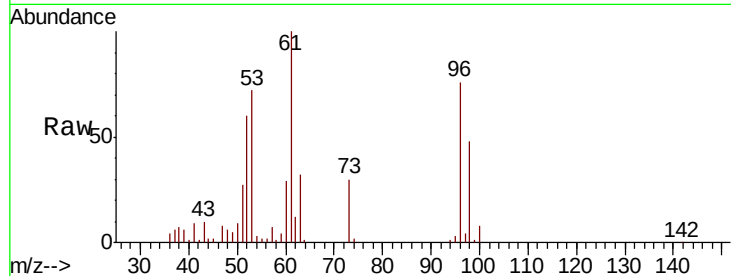
98 63.7 50.4 75.6

Manual Integrations

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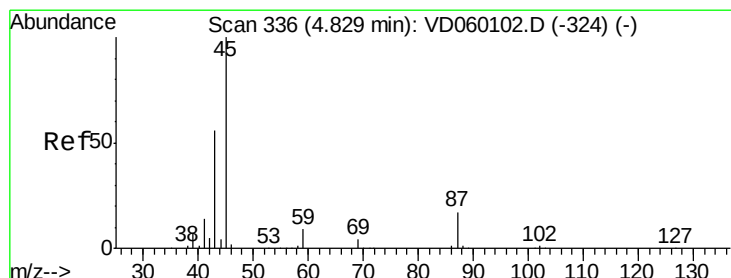
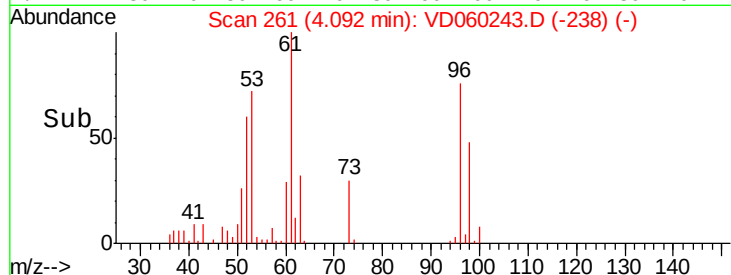
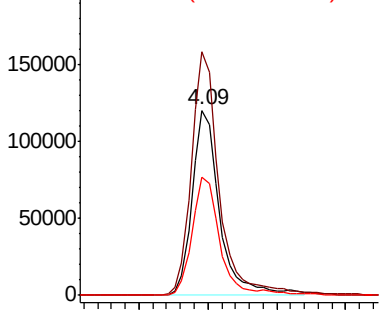


Abundance

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: 23.494 ug/l

RT: 4.86 min Scan# 339

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion: 45 Resp: 1282592

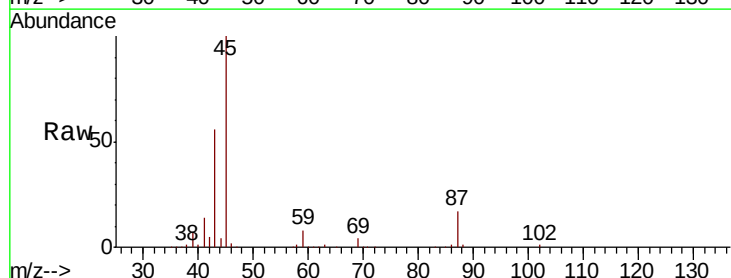
Ion Ratio Lower Upper

45 100

43 56.5 44.8 67.2

87 16.8 13.9 20.9

59 8.1 7.1 10.7



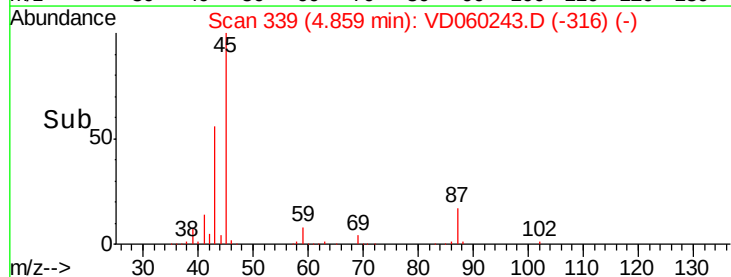
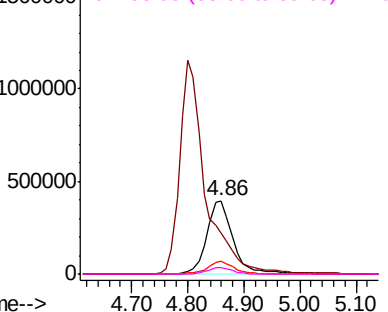
Abundance

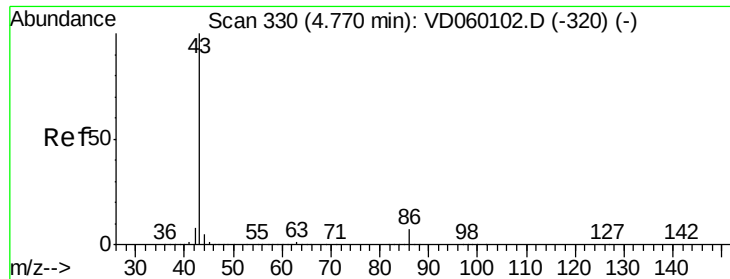
Ion 45.05 (44.75 to 45.75): VDC

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: 119.468 ug/l

RT: 4.80 min Scan# 333

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 43 Resp: 3666128

Ion Ratio Lower Upper

43 100

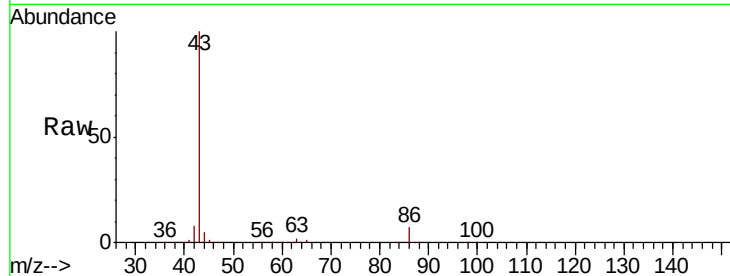
86 6.8 5.6 8.4

Manual Integrations

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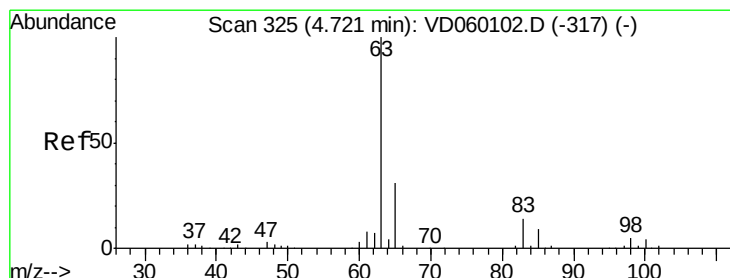
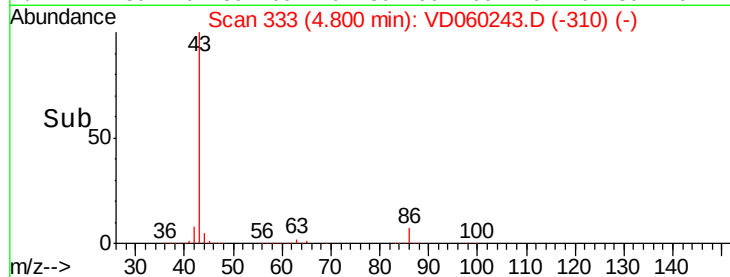
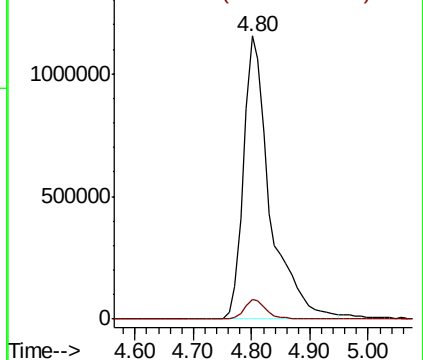
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 23.133 ug/l

RT: 4.75 min Scan# 328

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

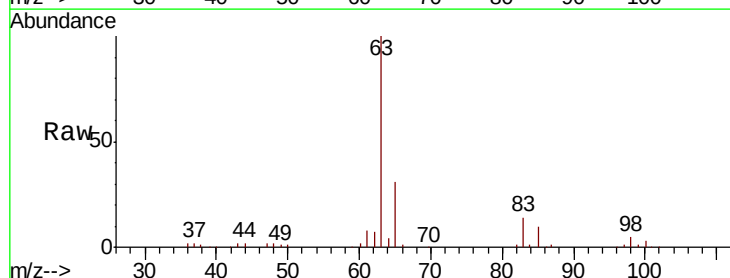
Tgt Ion: 63 Resp: 572605

Ion Ratio Lower Upper

63 100

98 5.5 2.8 8.3

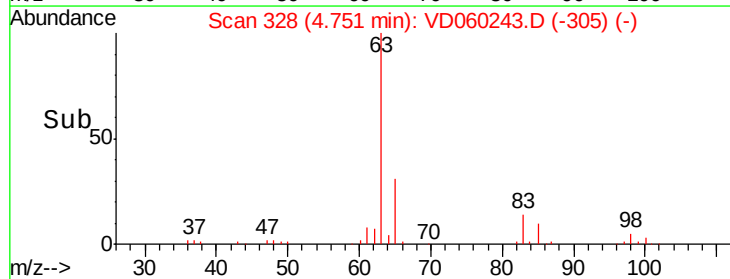
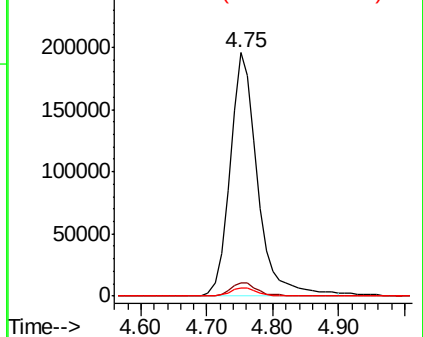
100 3.2 1.8 5.3

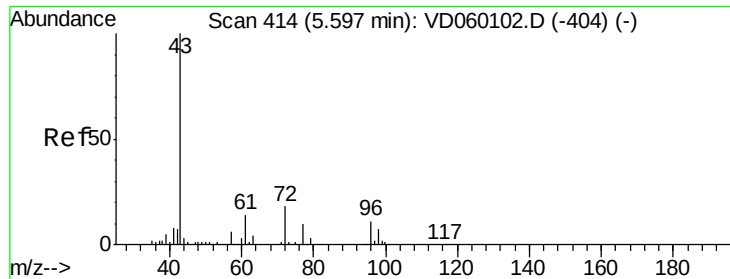


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 130.785 ug/l

RT: 5.63 min Scan# 417

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 43 Resp: 648433

Ion Ratio Lower Upper

43 100

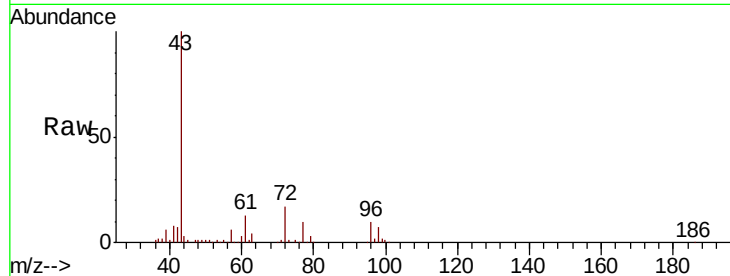
72 16.7 14.5 21.7

Manual Integrations

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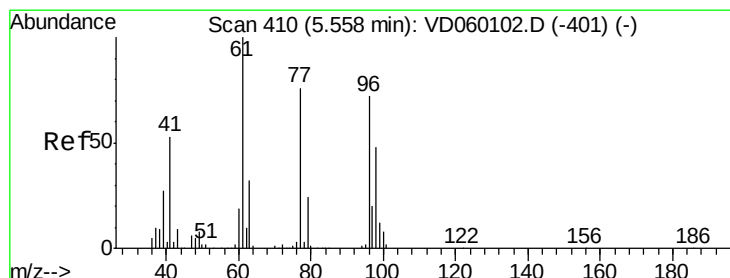
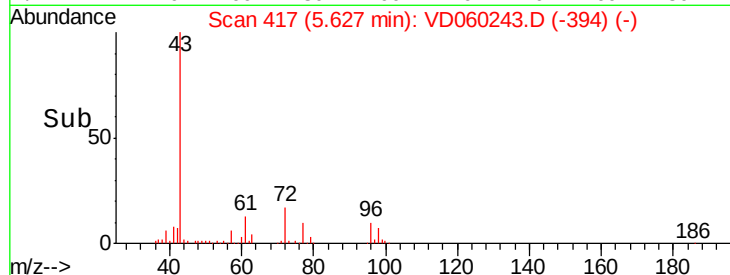
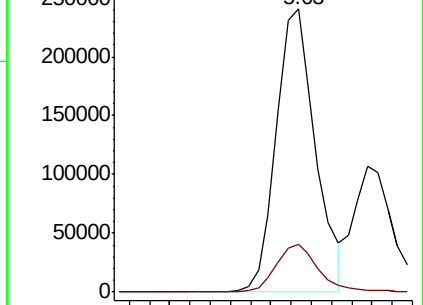
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 24.049 ug/l

RT: 5.59 min Scan# 413

Delta R.T. 0.03 min

Lab File: VD060243.D

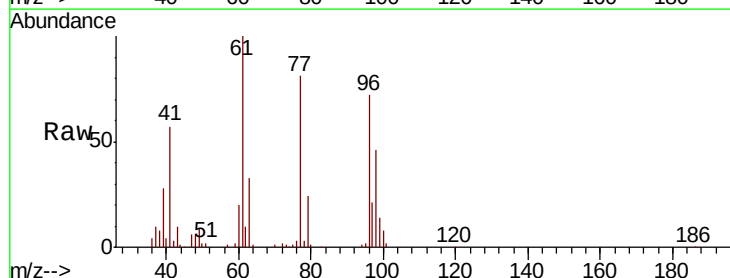
Acq: 31 Oct 2018 15:55

Tgt Ion: 77 Resp: 451284

Ion Ratio Lower Upper

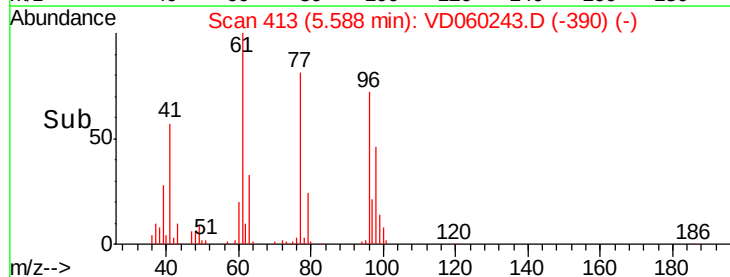
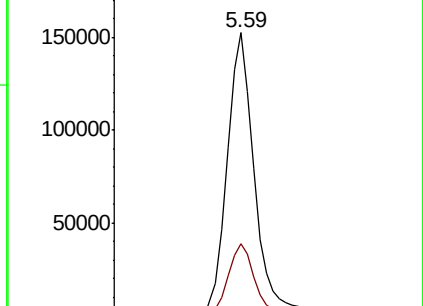
77 100

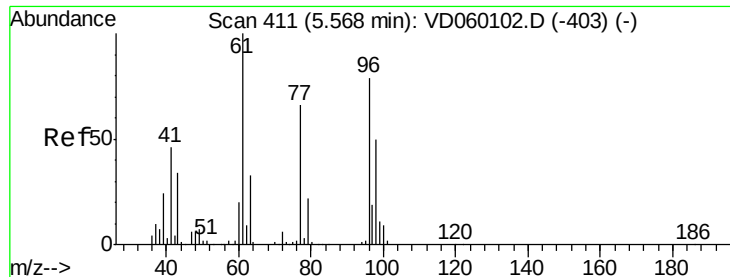
97 25.7 13.3 39.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

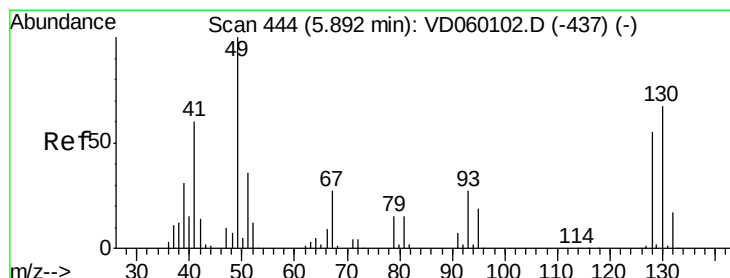
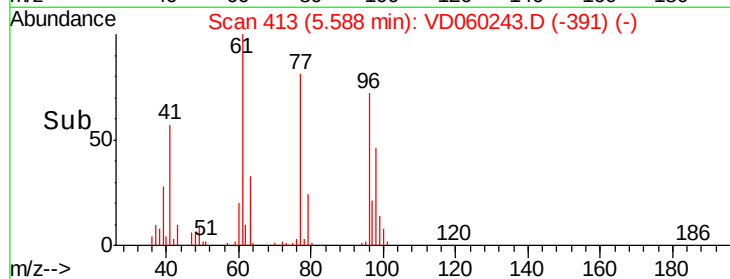
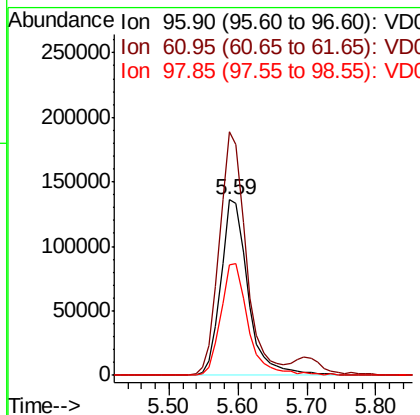
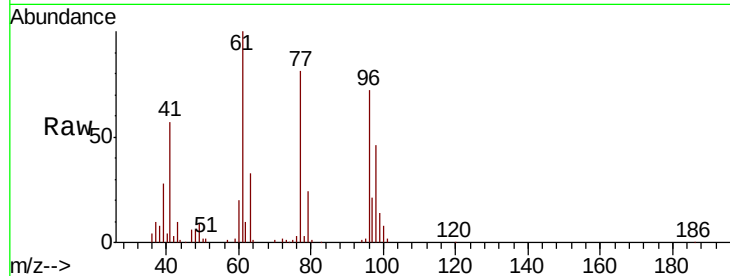
cis-1,2-Dichloroethene
Concen: 23.210 ug/l
RT: 5.59 min Scan# 413
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	138.6	0.0	251.8	
98	63.2	0.0	125.2	

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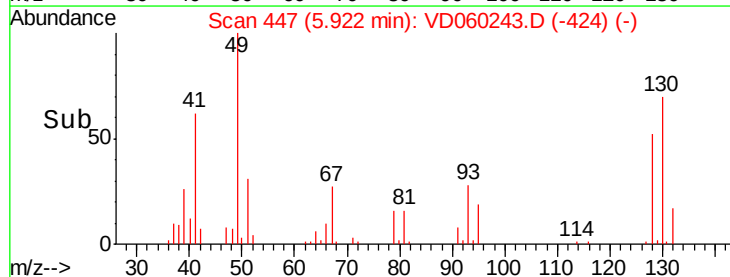
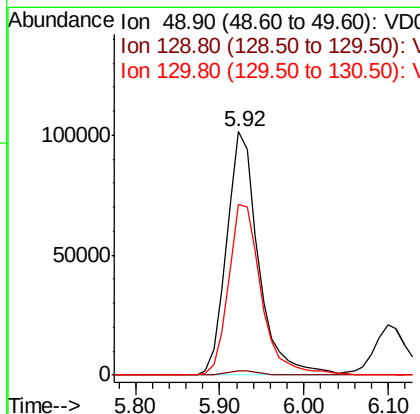
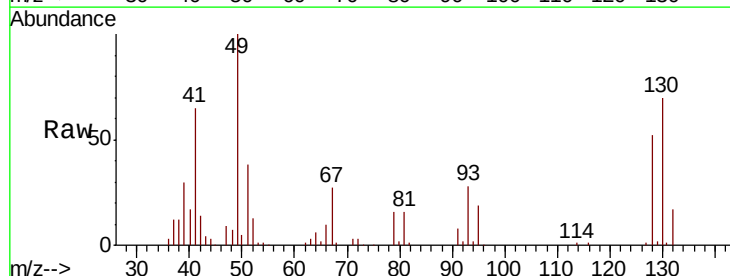
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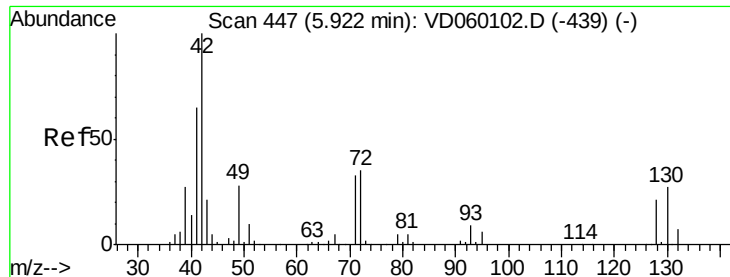


#28

Bromochloromethane
Concen: 22.153 ug/l
RT: 5.92 min Scan# 447
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.6	0.0	3.6	
130	70.0	53.9	80.9	





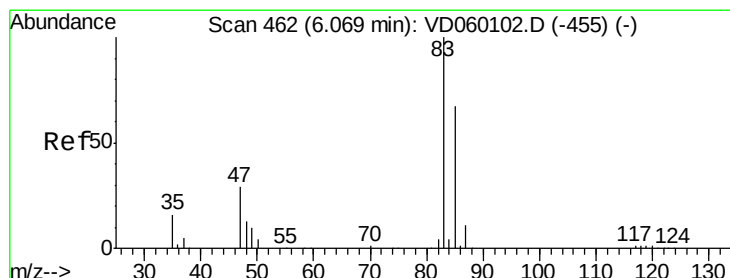
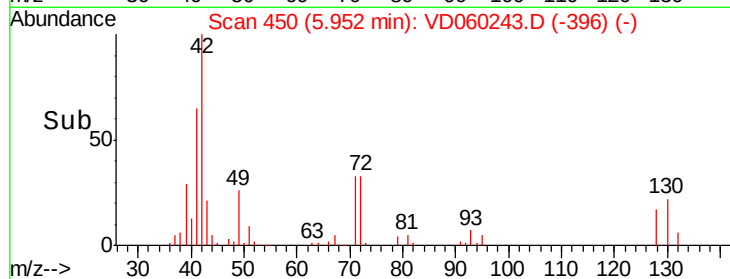
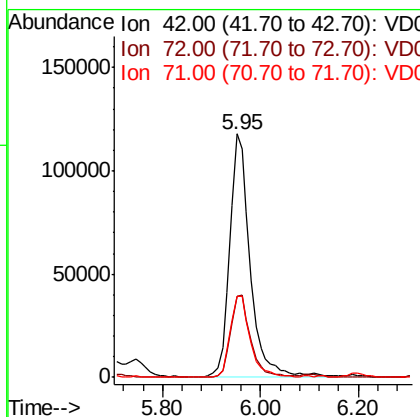
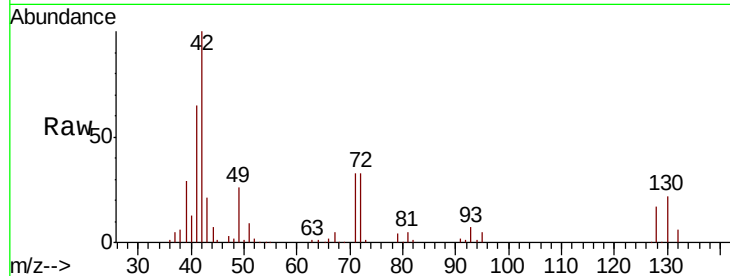
#29
Tetrahydrofuran
Concen: 119.734 ug/l
RT: 5.95 min Scan# 450
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.0	26.9	40.3
71	32.7	26.7	40.1

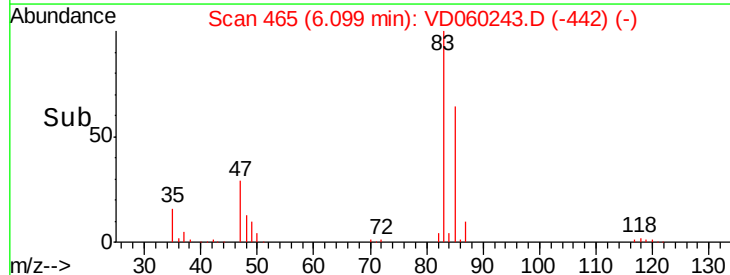
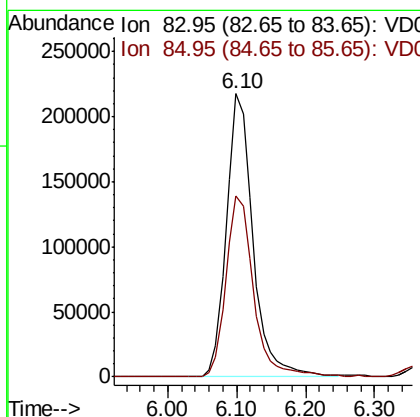
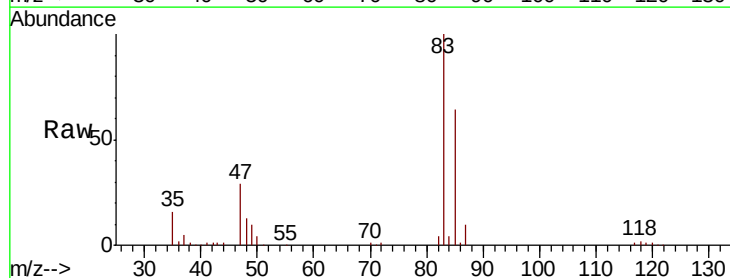
Manual Integrations
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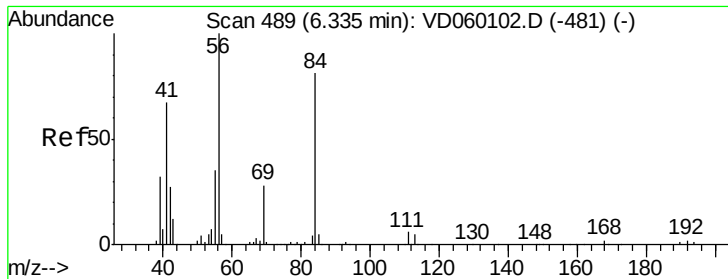
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#30
Chloroform
Concen: 23.246 ug/l
RT: 6.10 min Scan# 465
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.8	80.8





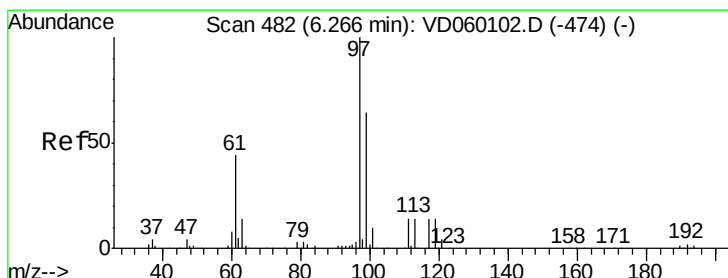
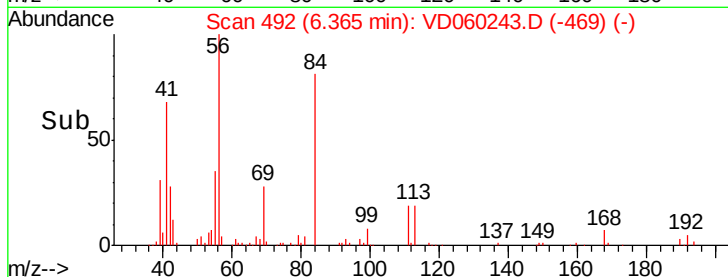
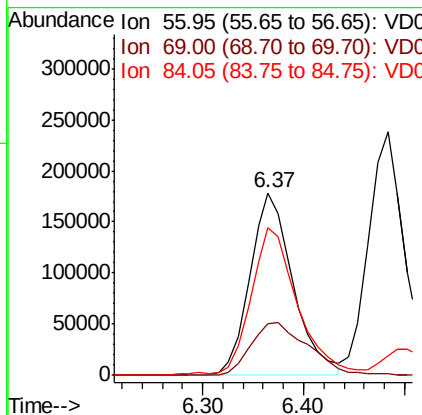
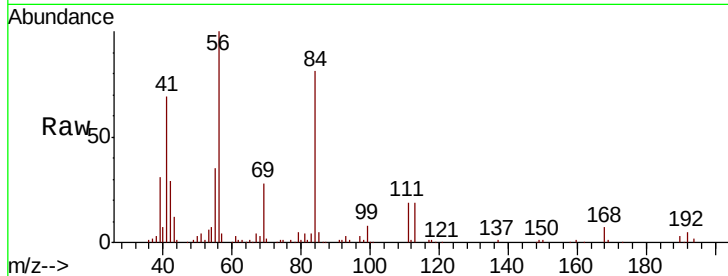
#31
Cyclohexane
Concen: 22.251 ug/l
RT: 6.37 min Scan# 492
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.4	22.8	34.2
84	80.6	64.9	97.3

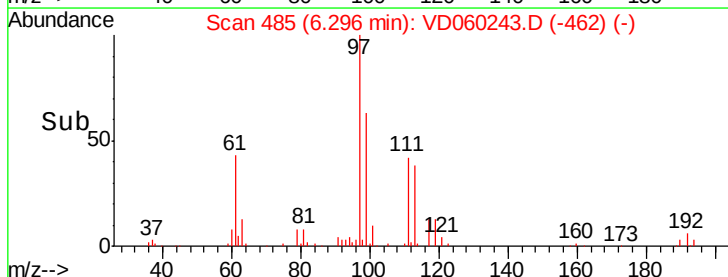
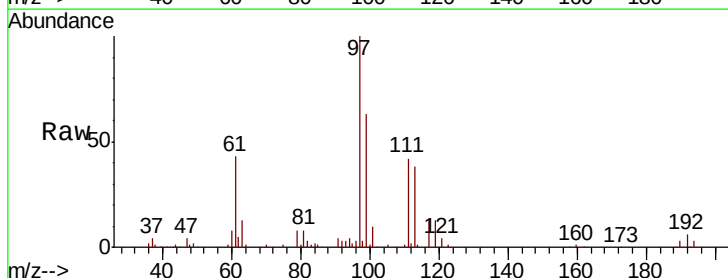
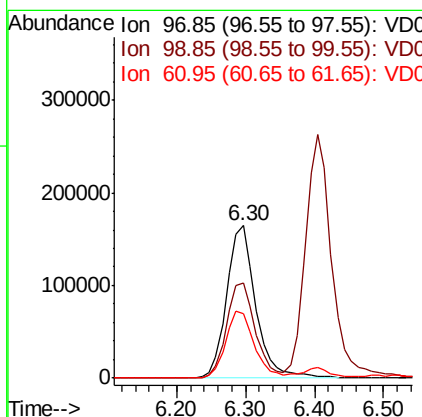
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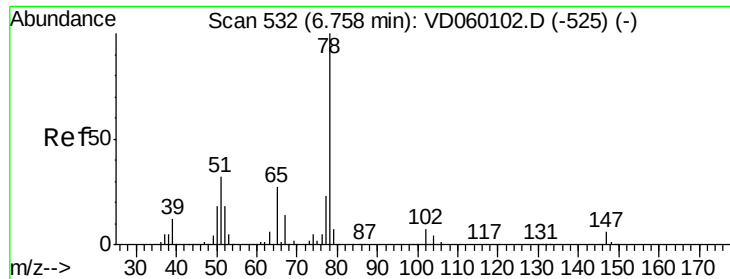
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#32
1,1,1-Trichloroethane
Concen: 23.333 ug/l
RT: 6.30 min Scan# 485
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.4	77.0
61	42.5	35.5	53.3





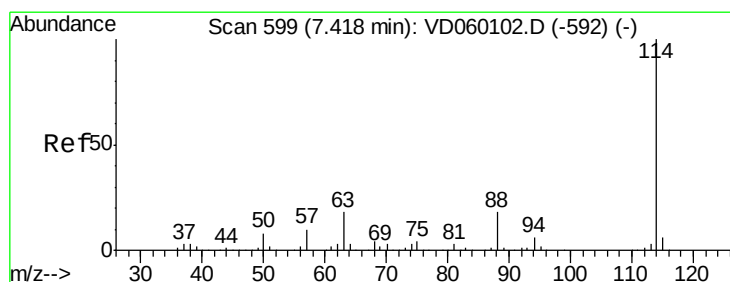
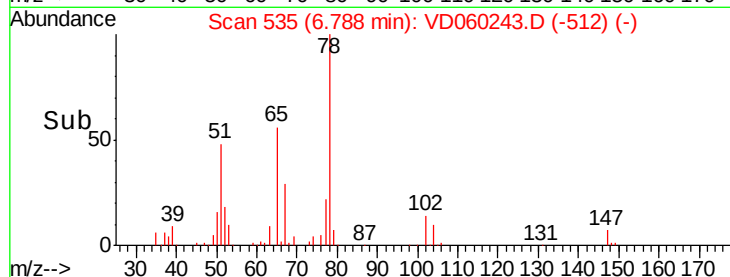
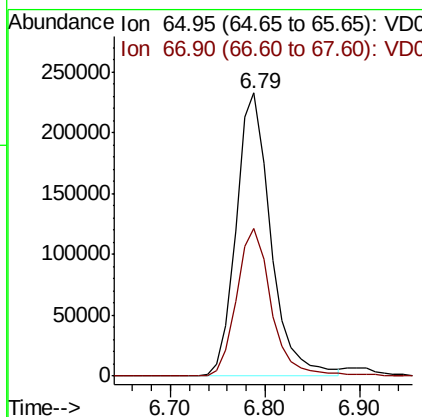
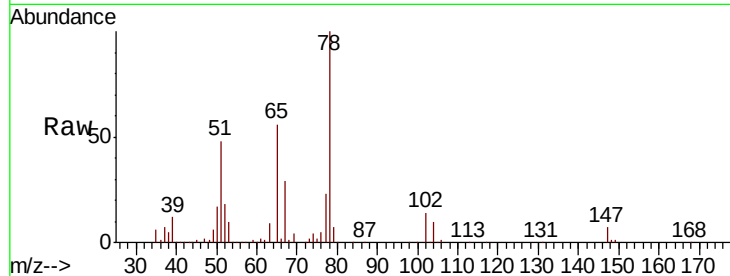
#33
 1,2-Dichloroethane-d4
 Concen: 23.333 ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion: 65 Resp: 588520
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 106.2

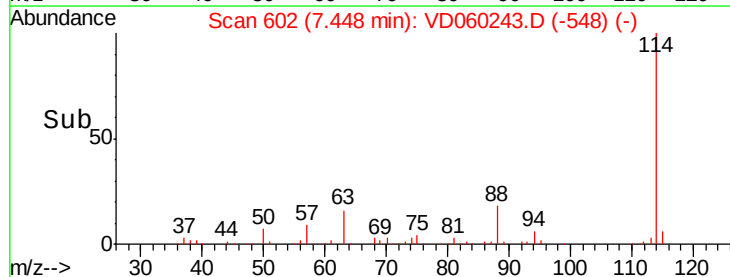
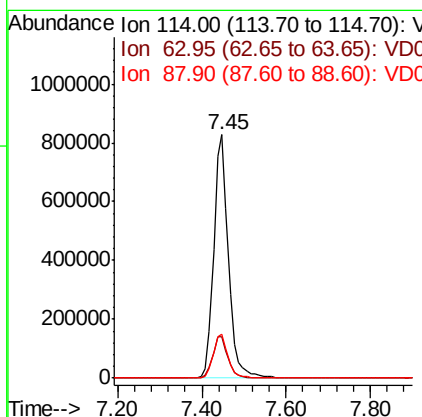
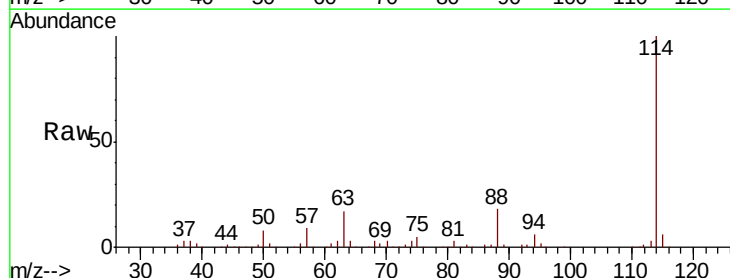
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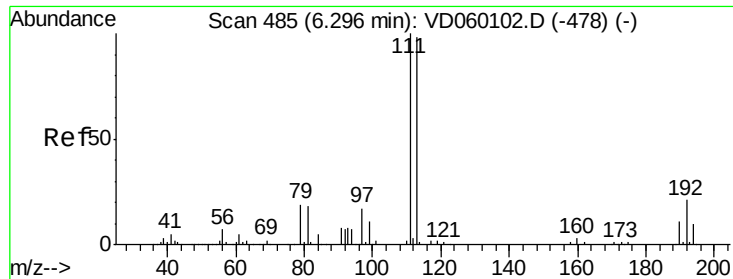
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion: 114 Resp: 1998657
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 36.0
 88 17.8 0.0 36.2





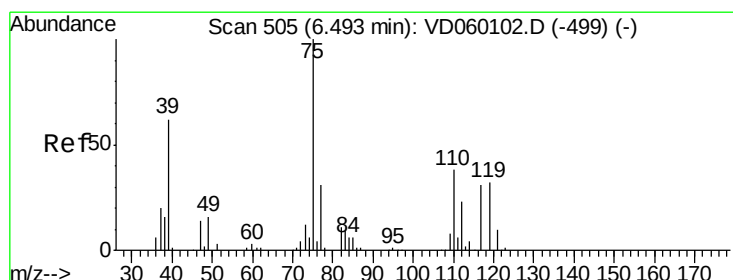
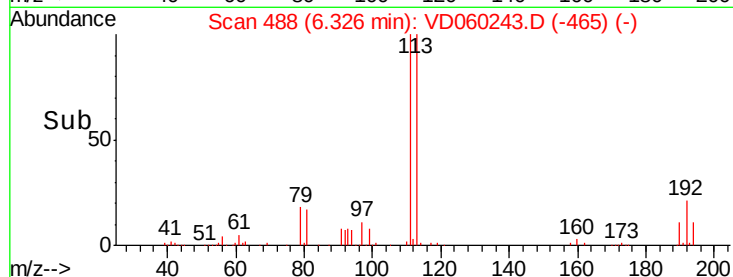
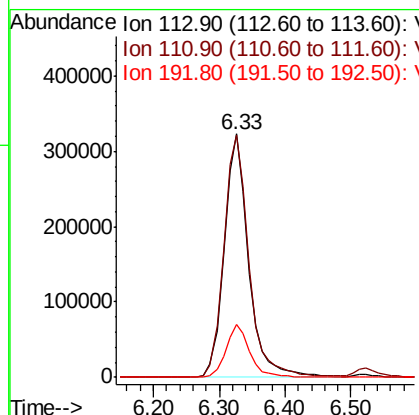
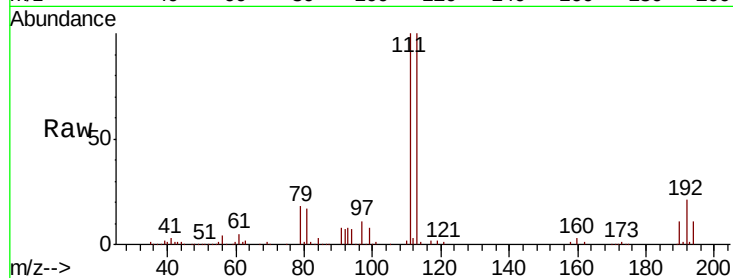
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 488
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	833482		
111	99.8	81.5	122.3	
192	21.5	17.4	26.0	

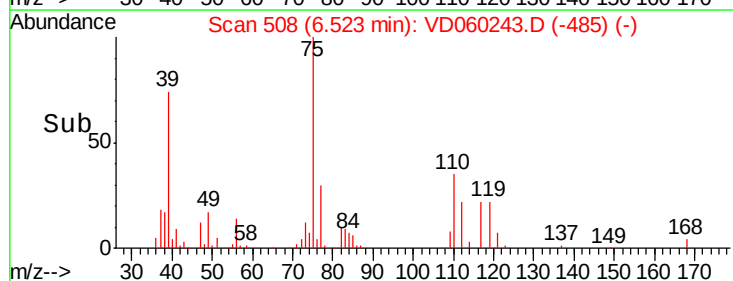
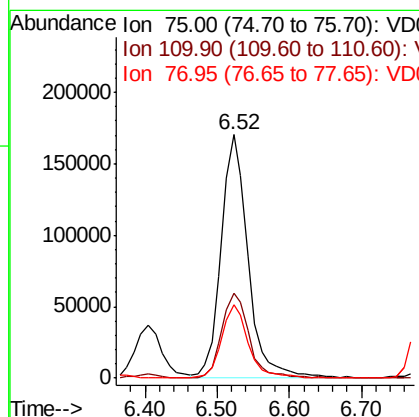
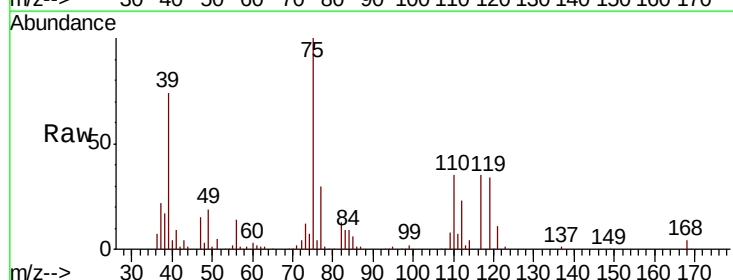
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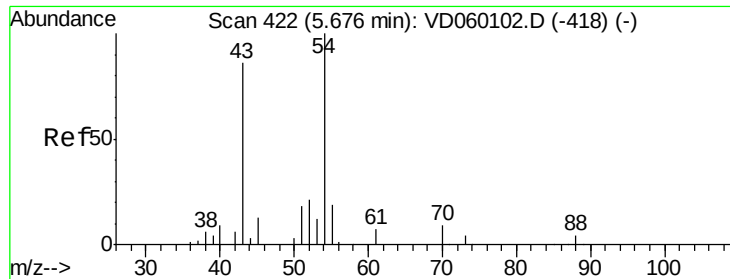
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#36
 1,1-Dichloropropene
 Concen: 22.619 ug/l
 RT: 6.52 min Scan# 508
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	432006		
110	35.1	19.0	57.0	
77	30.0	24.9	37.3	





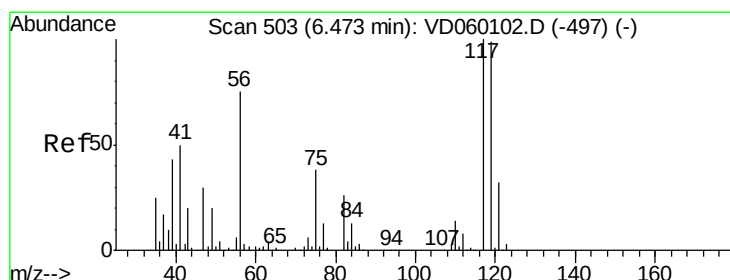
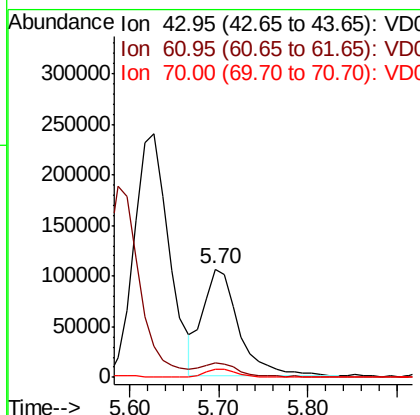
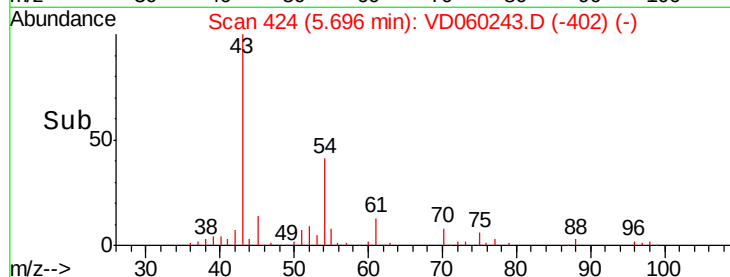
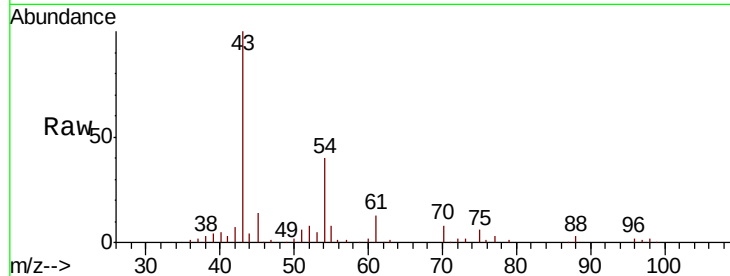
#37
Ethyl Acetate
Concen: 23.361 ug/l
RT: 5.70 min Scan# 424
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.5	15.7
70	7.7	6.3	9.5

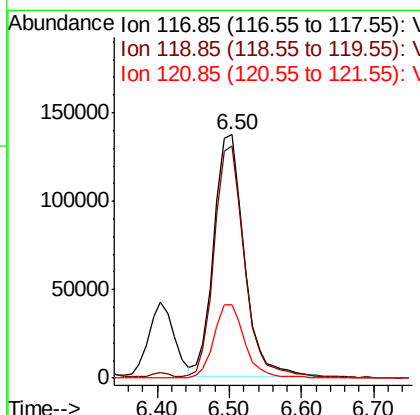
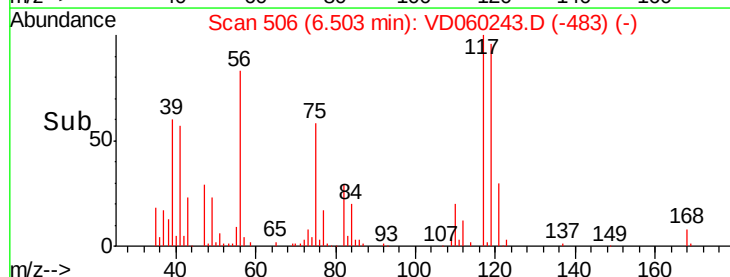
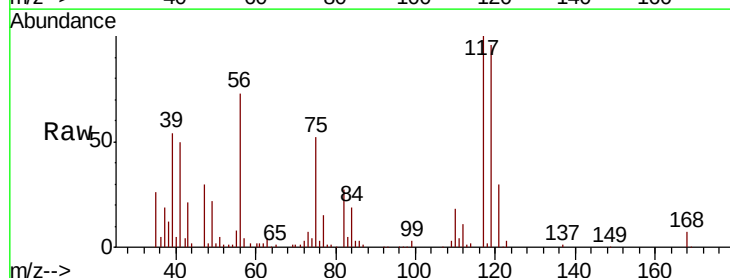
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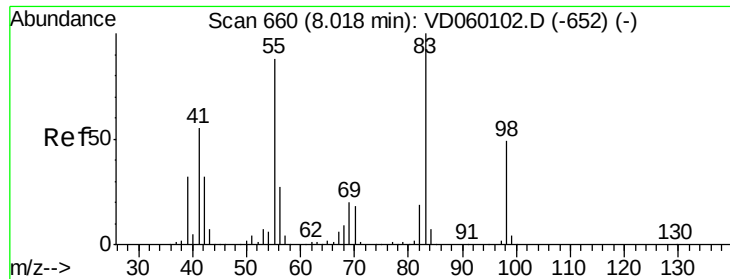
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#38
Carbon Tetrachloride
Concen: 23.139 ug/l
RT: 6.50 min Scan# 506
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.8	116.6
121	30.1	24.8	37.2





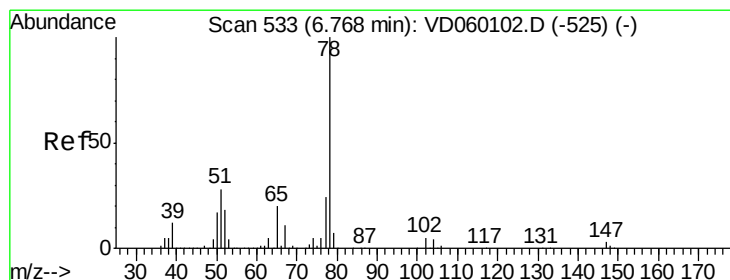
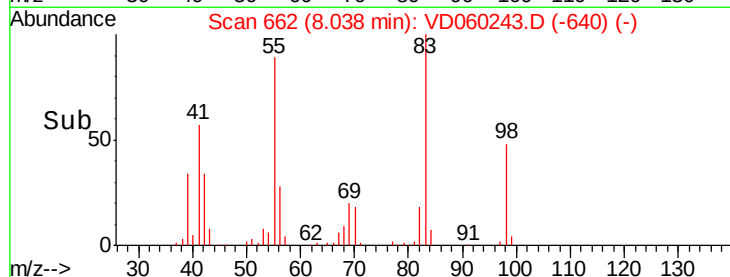
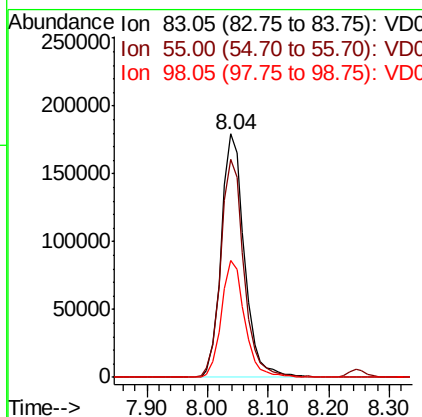
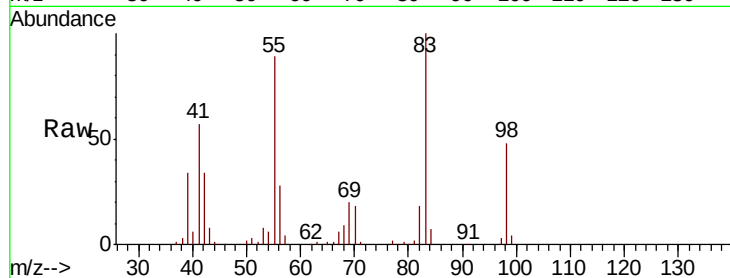
#39
Methylvlcyclohexane
Concen: 22.087 ug/l
RT: 8.04 min Scan# 662
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.4	70.5	105.7
98	47.8	39.4	59.2

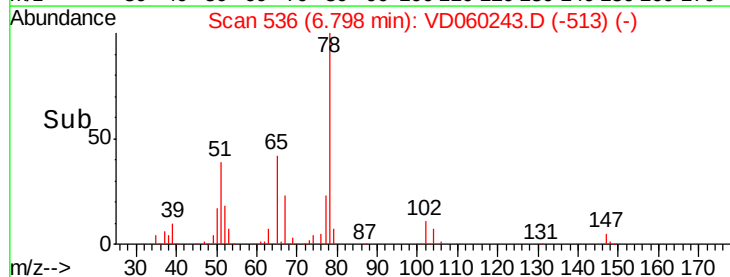
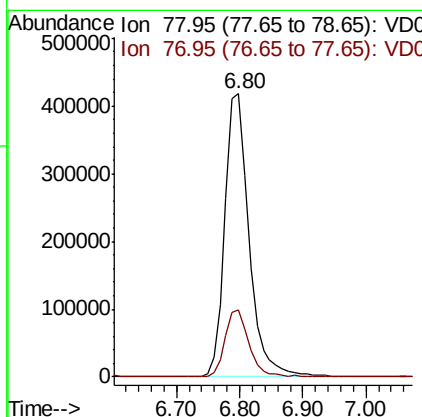
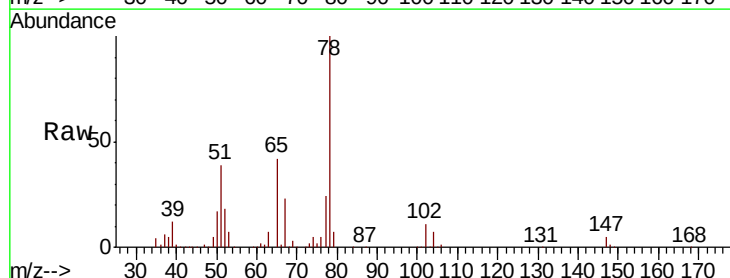
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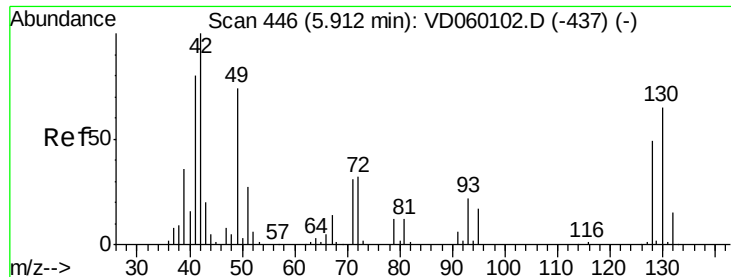
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#40
Benzene
Concen: 22.419 ug/l
RT: 6.80 min Scan# 536
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4





#41

Methacrylonitrile

Concen: 19.664 ug/l m

RT: 5.92 min Scan# 447

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 41 Resp: 140898

Ion Ratio Lower Upper

41 100

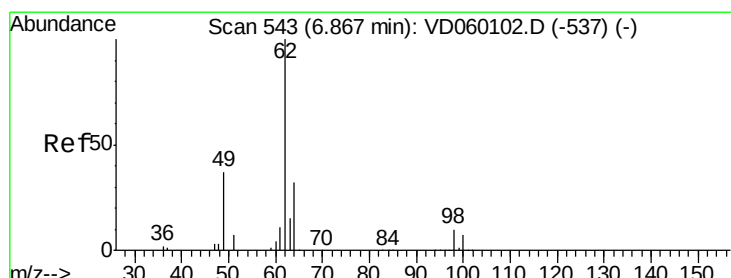
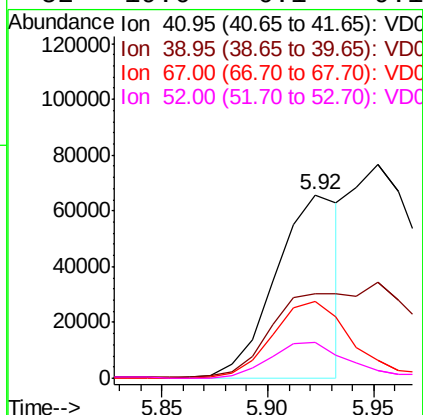
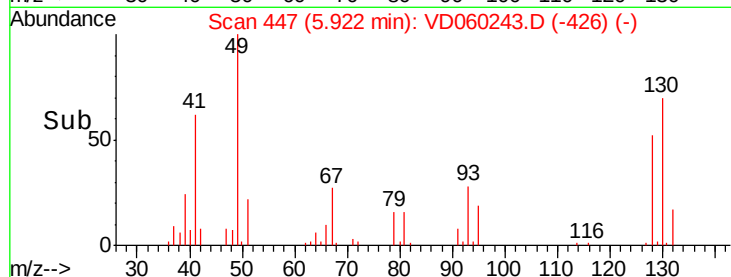
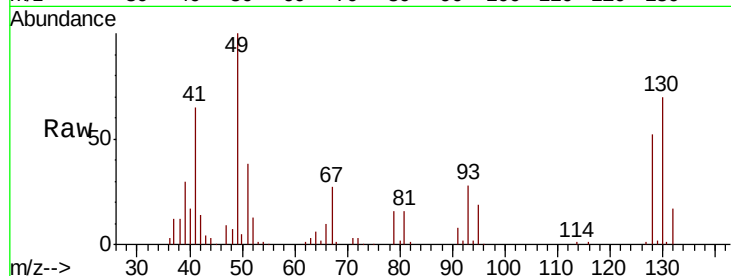
39 46.3 36.0 54.0

67 41.8 13.9 20.9#

52 19.6 6.1 9.1#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 22.896 ug/l

RT: 6.90 min Scan# 546

Delta R.T. 0.03 min

Lab File: VD060243.D

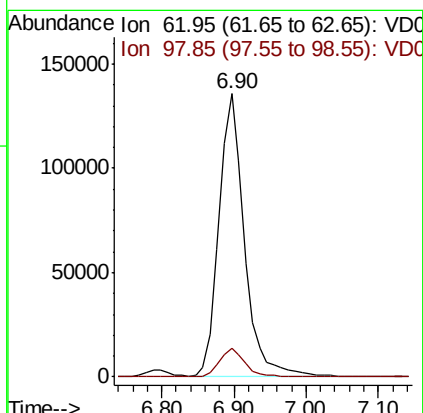
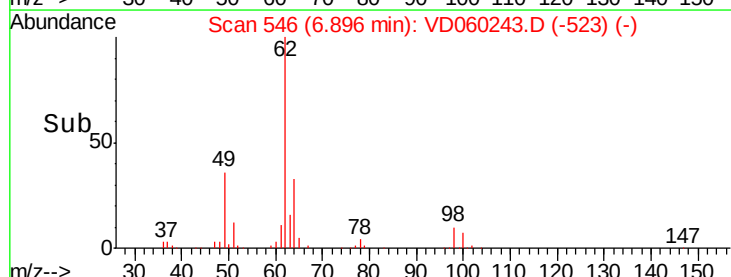
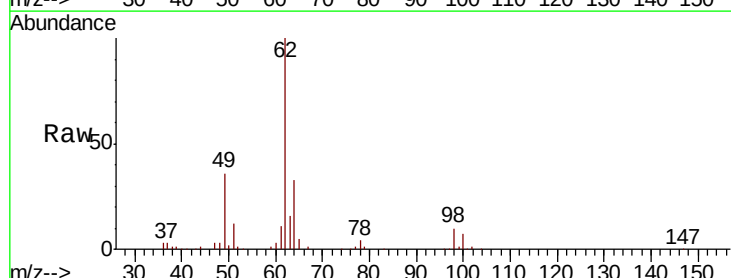
Acq: 31 Oct 2018 15:55

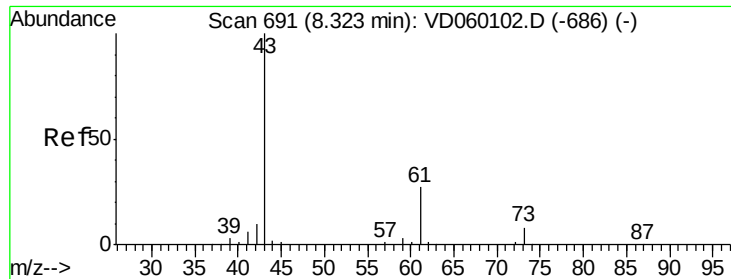
Tgt Ion: 62 Resp: 327988

Ion Ratio Lower Upper

62 100

98 10.1 0.0 20.6





#43

Isopropyl Acetate

Concen: 22.278 ug/l

RT: 8.35 min Scan# 694

Delta R.T. 0.03 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

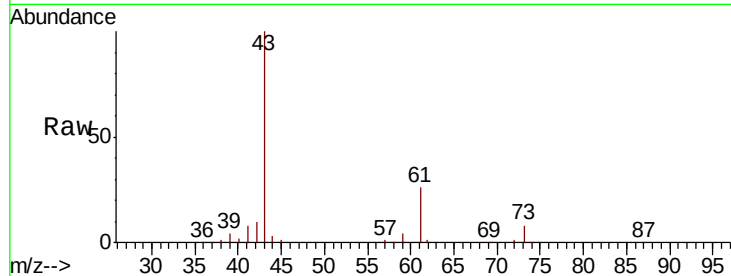
ClientSampleId :

VD1031SBS01

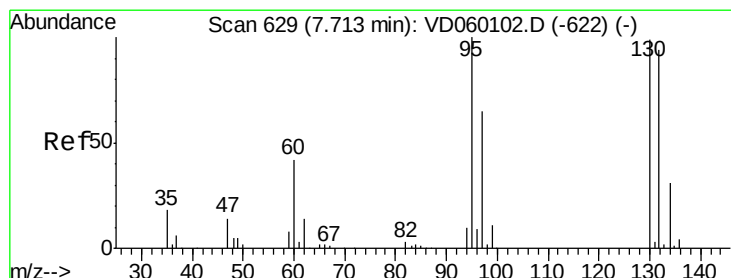
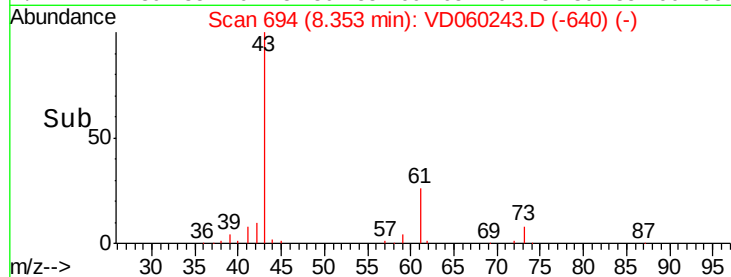
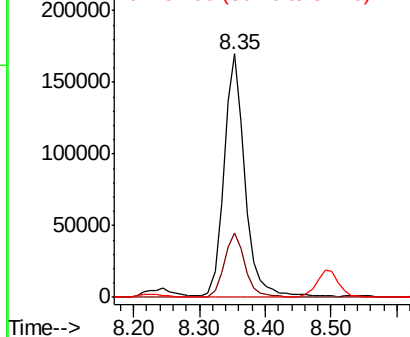
Tot Ion:	43	Resp:	371557
Ion	Ratio	Lower	Upper
43	100		
61	26.2	21.4	32.2
87	0.3	0.2	0.2

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



#44

Trichloroethene

Concen: 22.113 ug/l

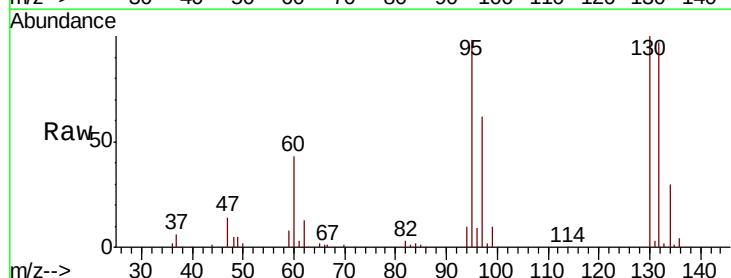
RT: 7.74 min Scan# 632

Delta R.T. 0.03 min

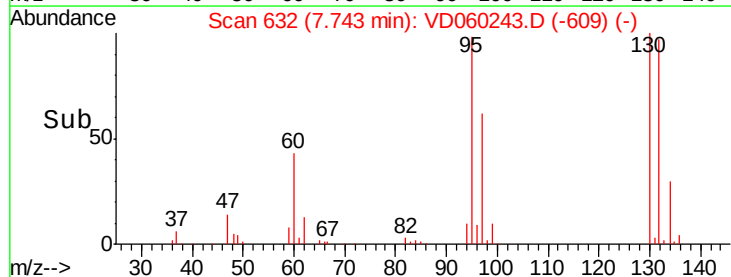
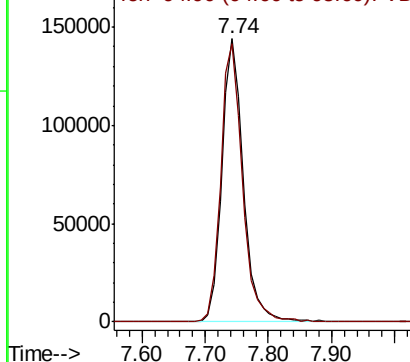
Lab File: VD060243.D

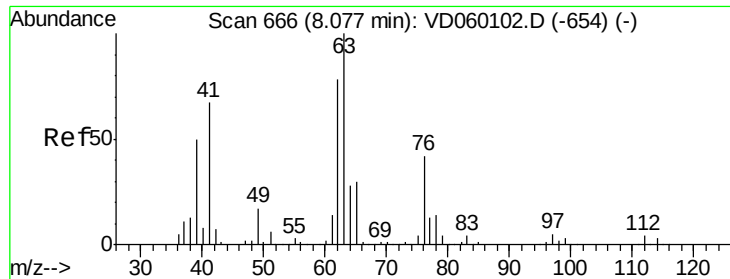
Acq: 31 Oct 2018 15:55

Tgt Ion:	130	Resp:	342029
Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	202.2



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





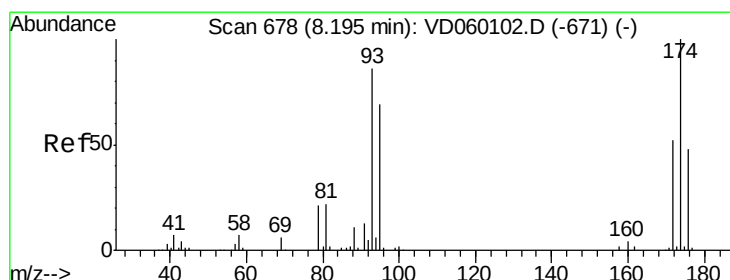
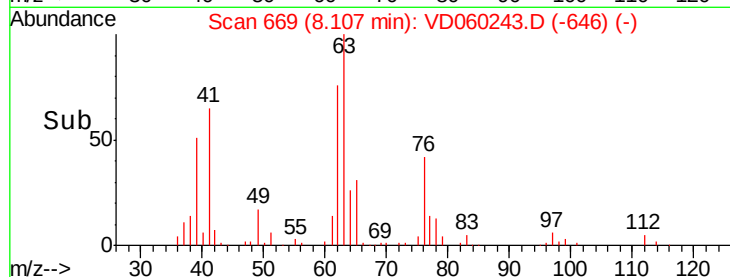
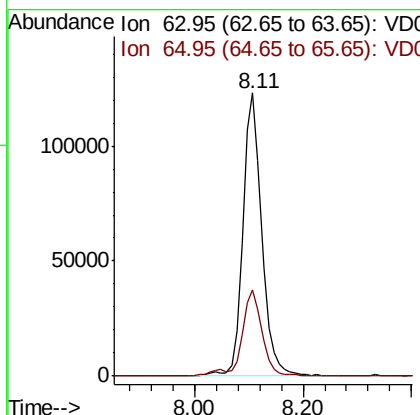
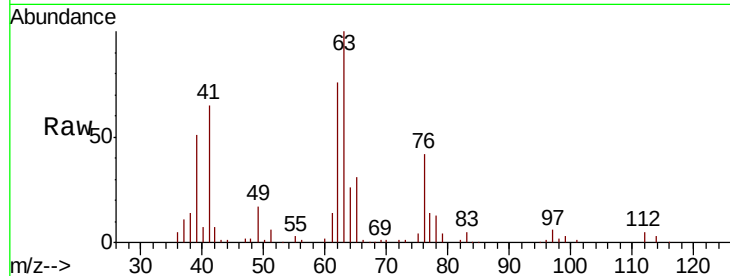
#45
 1,2-Dichloropropane
 Concen: 22.742 ug/l
 RT: 8.11 min Scan# 669
 Delta R.T. 0.03 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.1	36.1

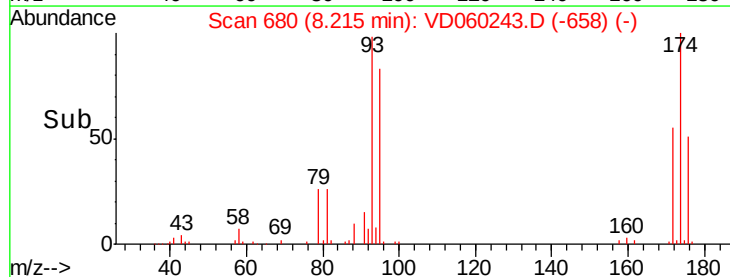
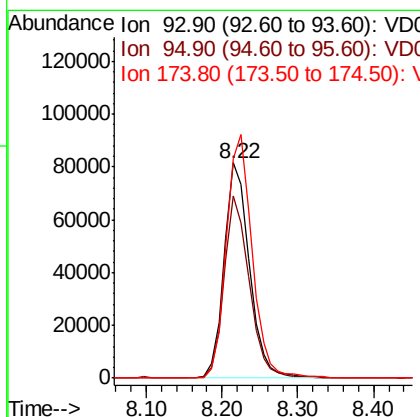
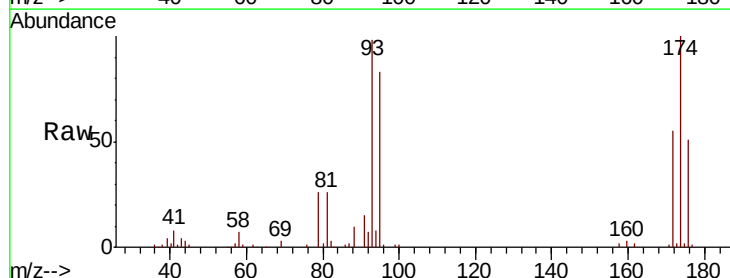
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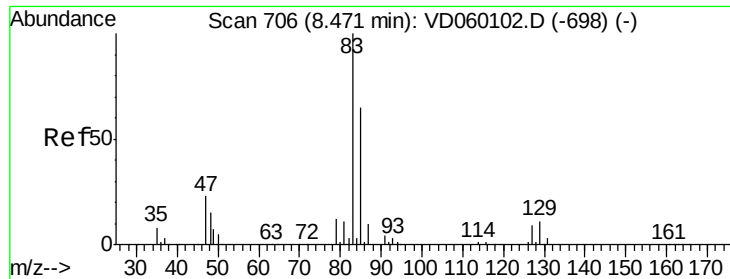
MMDadoda
 11/1/2018 11:59:28 AM



#46
 Dibromomethane
 Concen: 22.356 ug/l
 RT: 8.22 min Scan# 680
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.8	63.8	95.6
174	101.9	92.9	139.3





#47

Bromodichloromethane

Concen: 23.104 ug/l

RT: 8.49 min Scan# 708

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

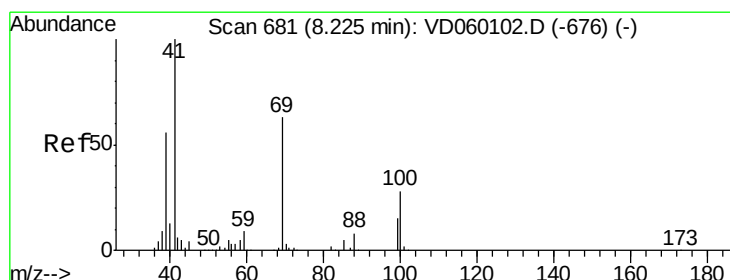
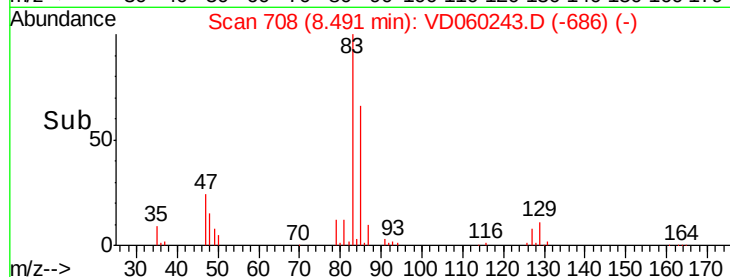
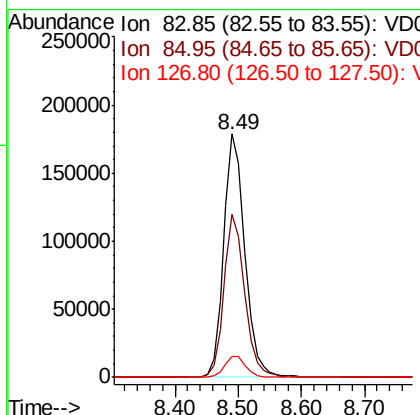
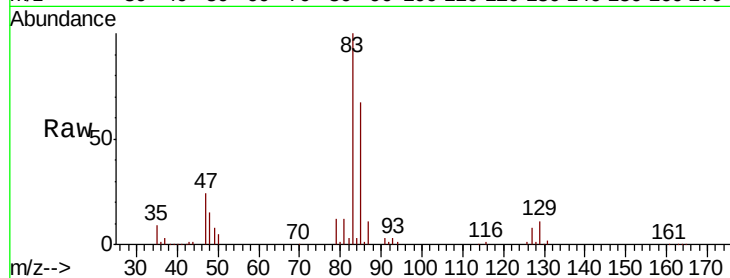
ClientSampleId :

VD1031SBS01

Tot Ion:	83	Resp:	416978
Ion Ratio	Lower	Upper	
83	100		
85	66.8	52.2	78.2
127	8.4	7.4	11.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 22.853 ug/l

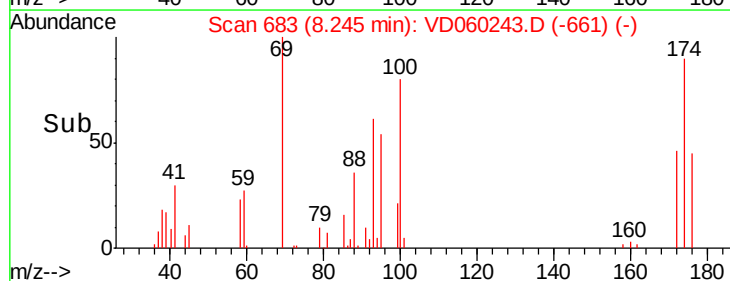
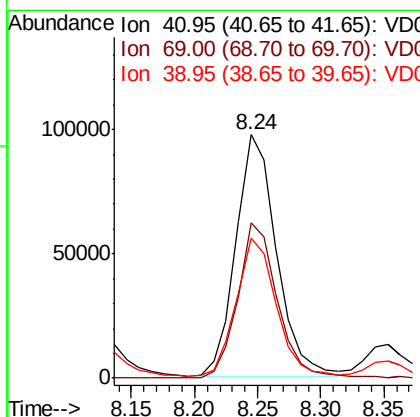
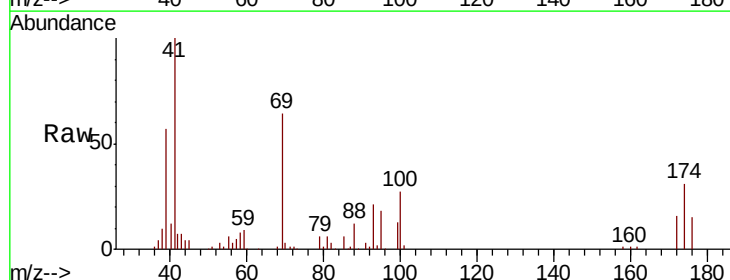
RT: 8.24 min Scan# 683

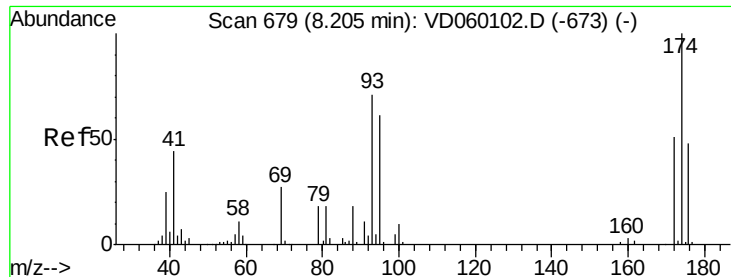
Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion:	41	Resp:	217106
Ion Ratio	Lower	Upper	
41	100		
69	63.7	49.7	74.5
39	57.4	45.2	67.8





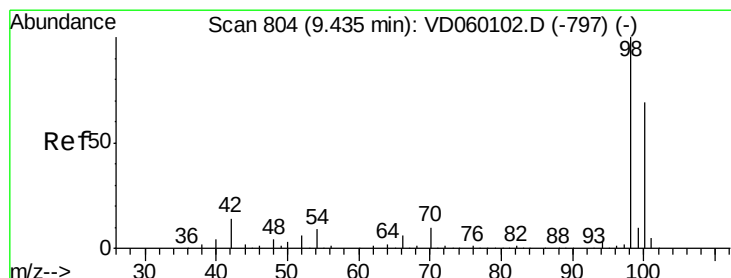
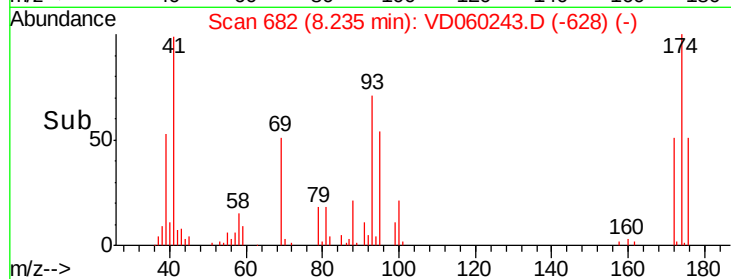
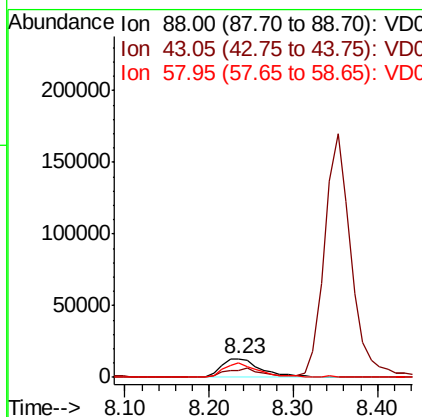
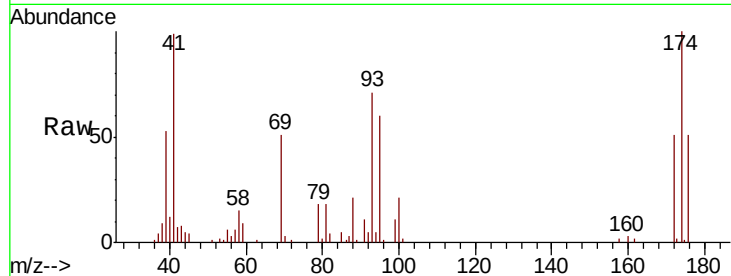
#49
1,4-Dioxane
Concen: 462.365 ug/l
RT: 8.23 min Scan# 682
Delta R.T. 0.03 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	88	Resp	43219
Ion Ratio	100	Lower	Upper
88	100		
43	38.4	33.7	50.5
58	74.6	49.1	73.7#

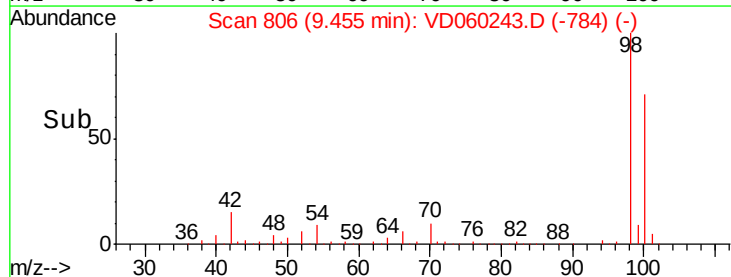
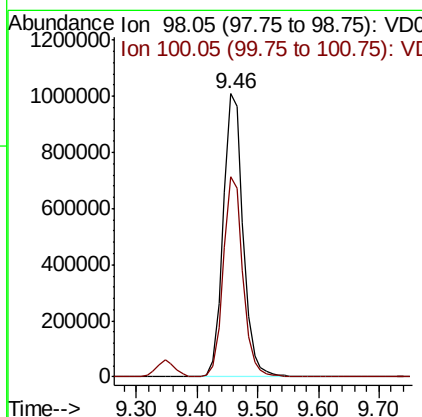
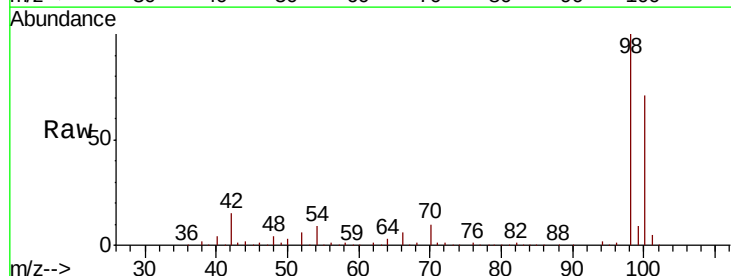
Manual Integrations
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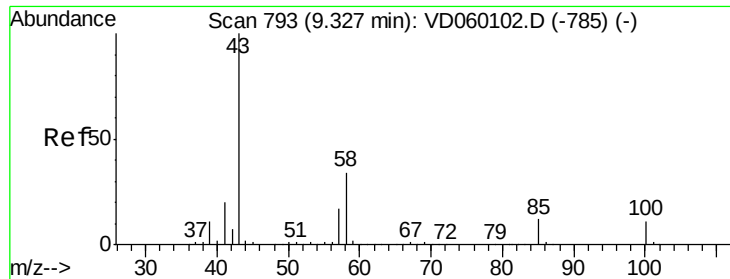
MMDadoda
11/1/2018 11:59:28 AM



#50
Toluene-d8
Concen: 462.365 ug/l
RT: 9.46 min Scan# 806
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	98	Resp	2301905
Ion Ratio	100	Lower	Upper
98	100		
100	70.7	55.4	83.0





#51

4-Methyl-2-Pentanone

Concen: 119.781 ug/l

RT: 9.35 min Scan# 795

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 43 Resp: 1260026

Ion Ratio Lower Upper

43 100

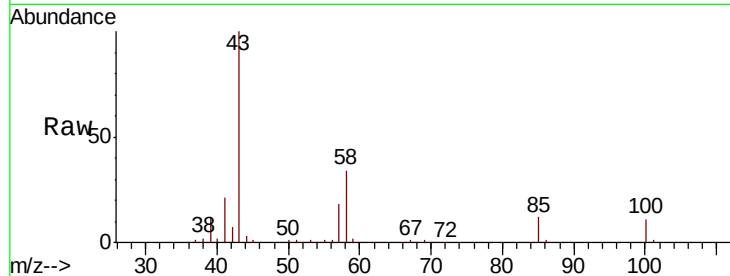
58 33.7 27.2 40.8

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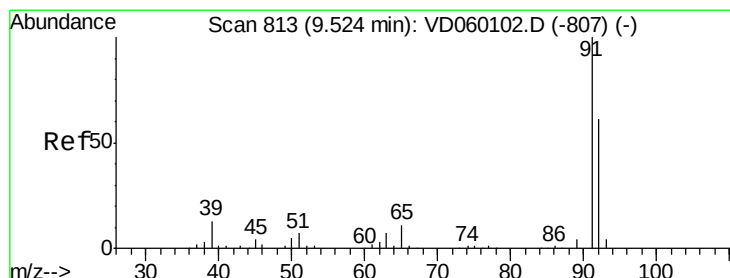
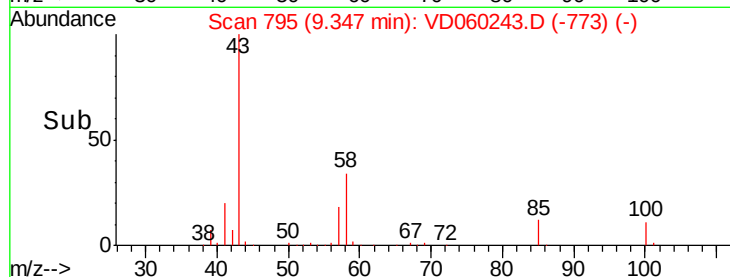
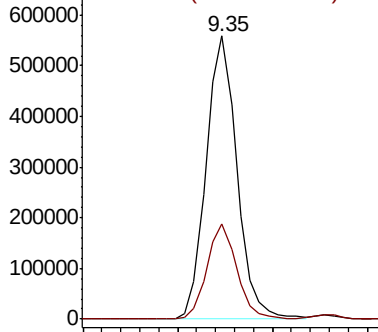
MMDadoda

11/1/2018 11:59:28 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 22.141 ug/l

RT: 9.55 min Scan# 816

Delta R.T. 0.03 min

Lab File: VD060243.D

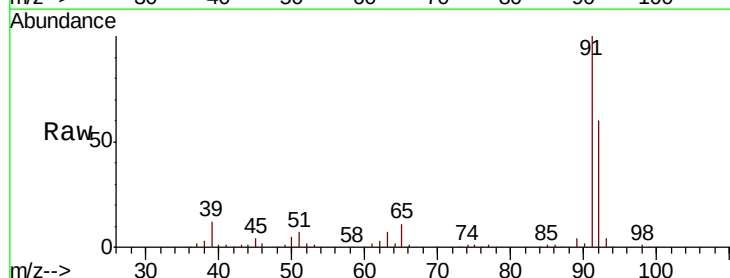
Acq: 31 Oct 2018 15:55

Tgt Ion: 92 Resp: 712487

Ion Ratio Lower Upper

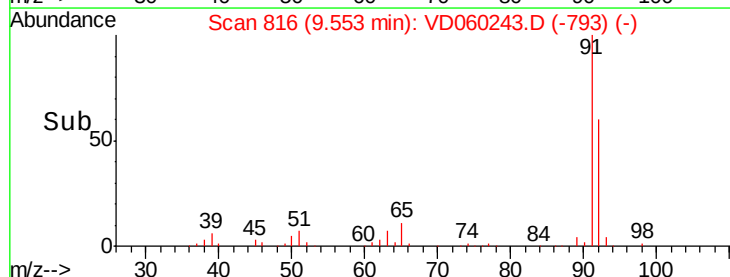
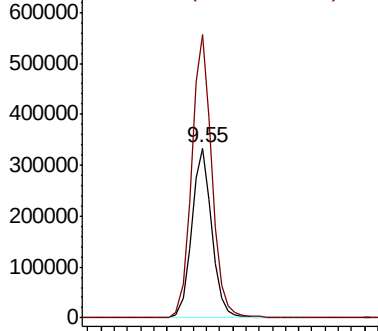
92 100

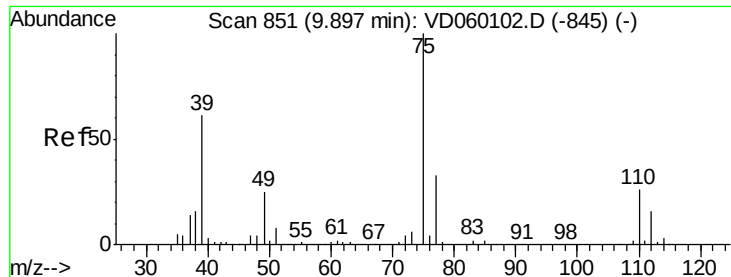
91 167.0 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 23.158 ug/l

RT: 9.92 min Scan# 853

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 75 Resp: 378184

Ion Ratio Lower Upper

75 100

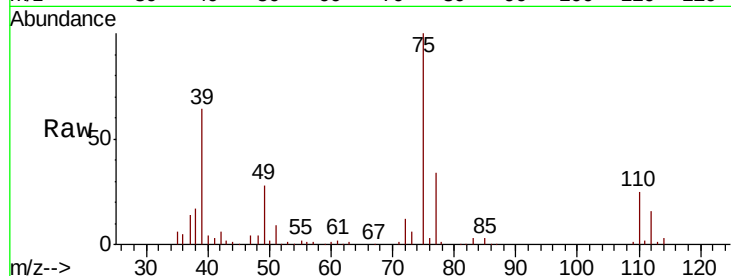
77 33.7 26.2 39.2

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

9.92

200000

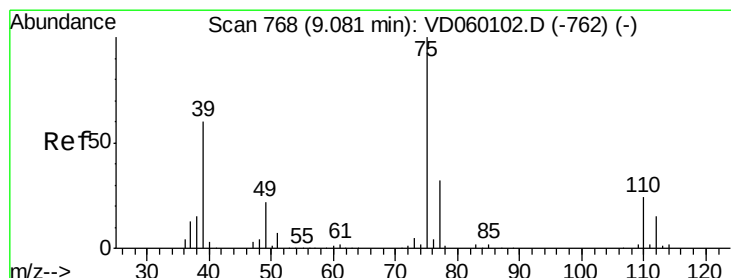
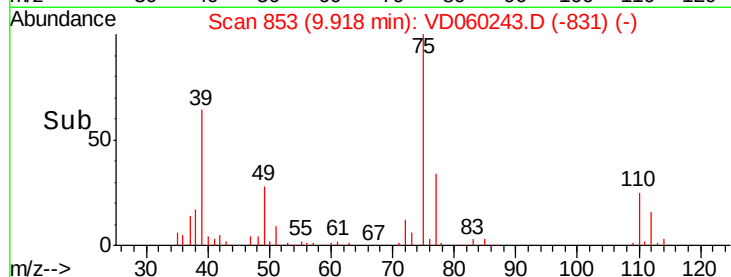
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 23.104 ug/l

RT: 9.10 min Scan# 770

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

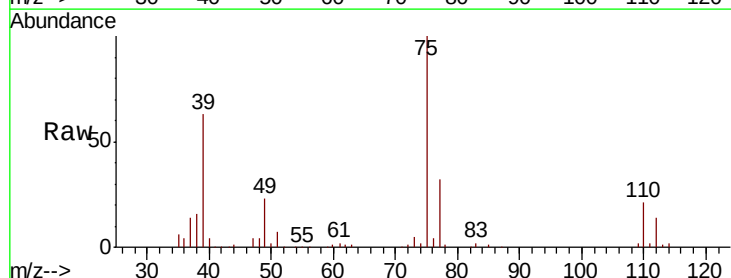
Tgt Ion: 75 Resp: 465916

Ion Ratio Lower Upper

75 100

77 32.3 25.7 38.5

39 63.4 48.2 72.4



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

9.10

250000

200000

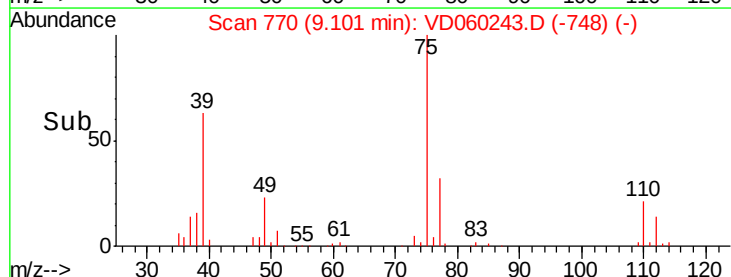
150000

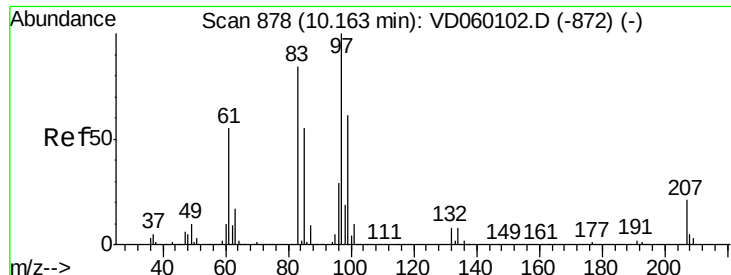
100000

50000

0

Time-->





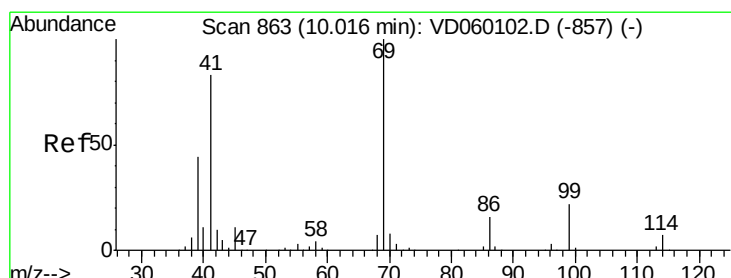
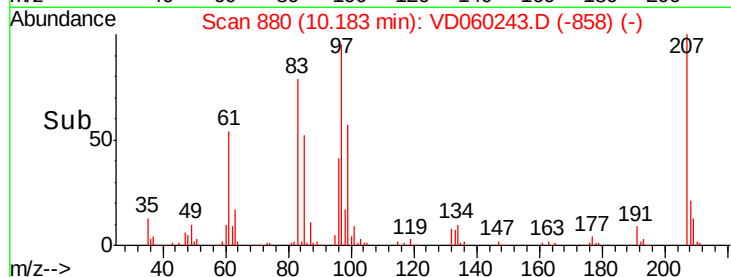
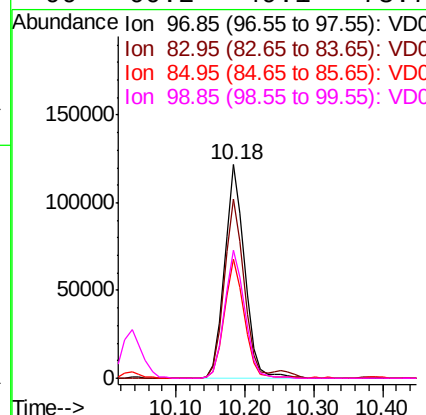
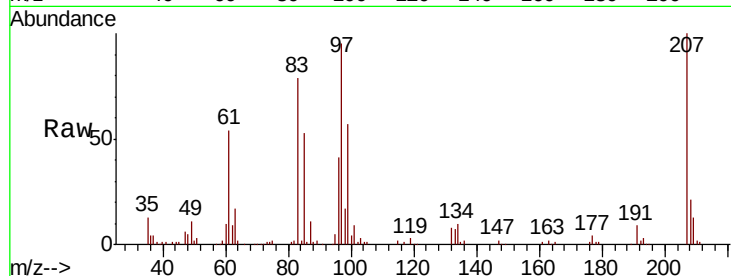
#55
 1,1,2-Trichloroethane
 Concen: 23.397 ug/l
 RT: 10.18 min Scan# 880
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		246137		
83	83.8	67.0	100.6		
85	55.6	43.9	65.9		
99	60.2	49.1	73.7		

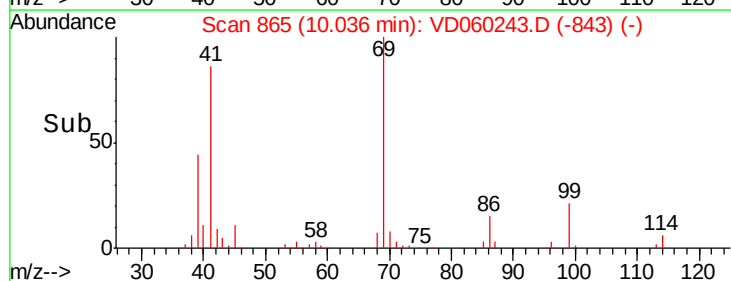
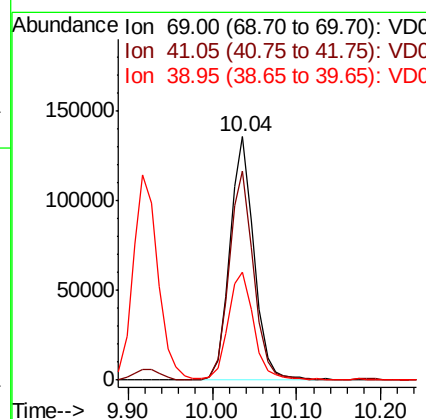
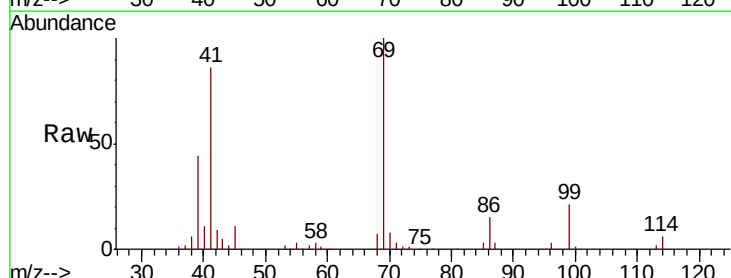
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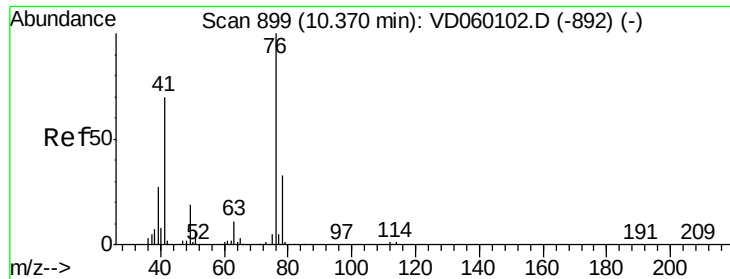
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 11/1/2018 11:59:28 AM



#56
 Ethyl methacrylate
 Concen: 23.133 ug/l
 RT: 10.04 min Scan# 865
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		268637		
41	85.7	66.6	100.0		
39	44.2	36.0	54.0		





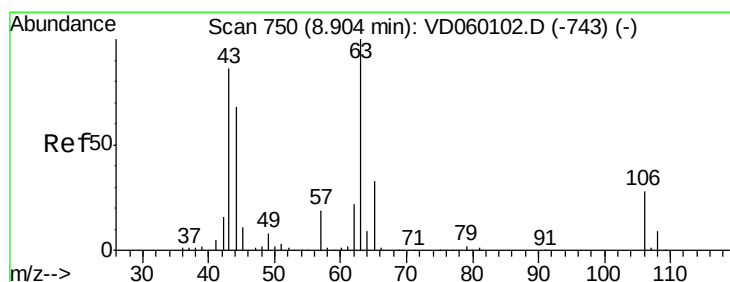
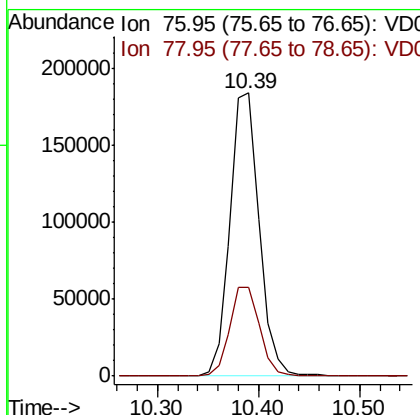
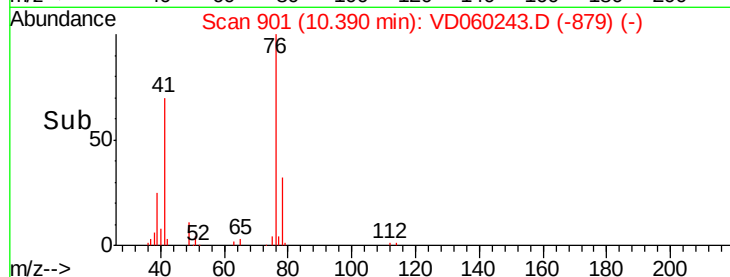
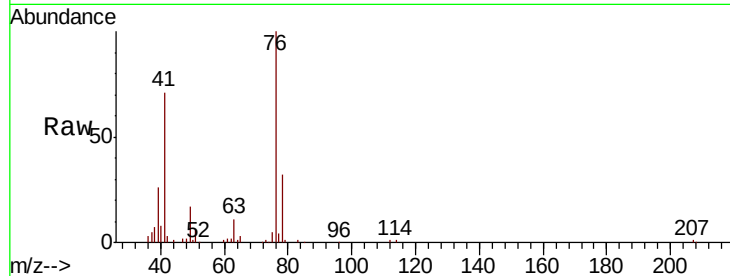
#57
 1,3-Dichloropropane
 Concen: 23.135 ug/l
 RT: 10.39 min Scan# 901
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion: 76 Resp: 371193
 Ion Ratio Lower Upper
 76 100
 78 31.6 26.2 39.2

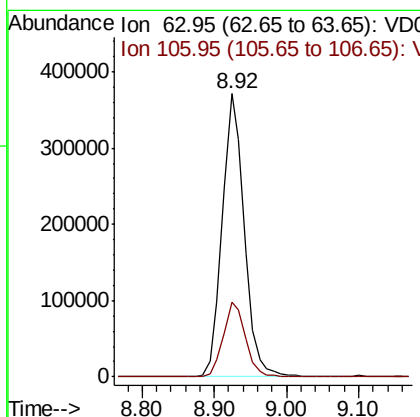
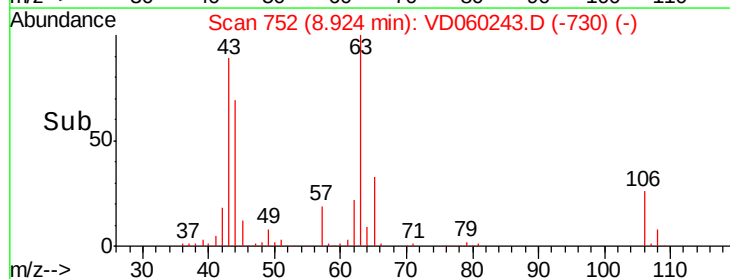
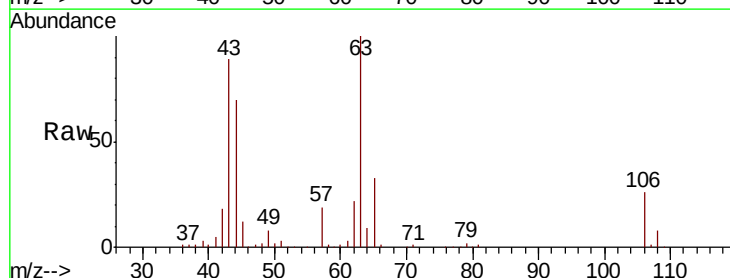
Manual Integrations
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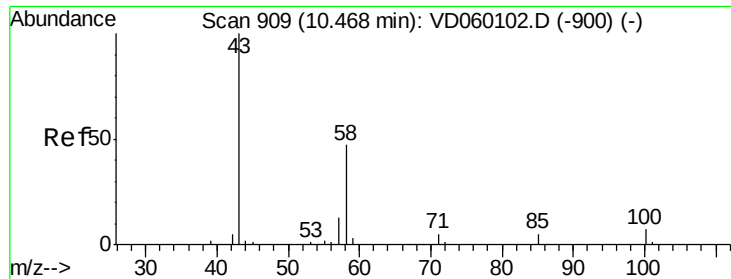
MMDadoda
 11/1/2018 11:59:28 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 121.782 ug/l
 RT: 8.92 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion: 63 Resp: 785321
 Ion Ratio Lower Upper
 63 100
 106 26.3 22.6 34.0





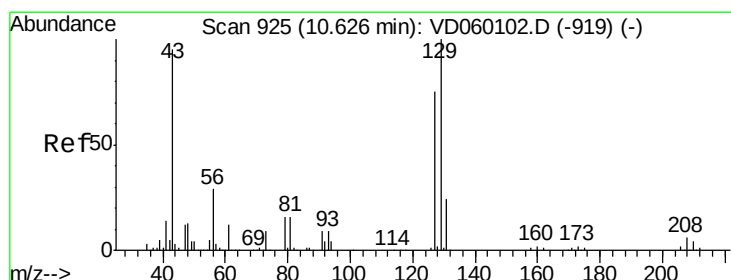
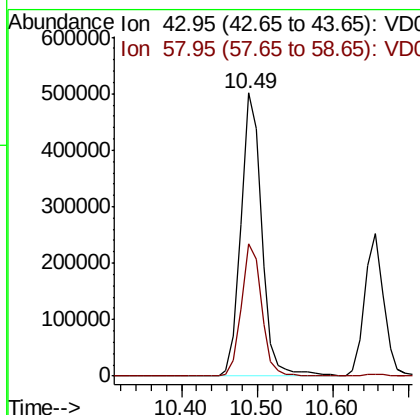
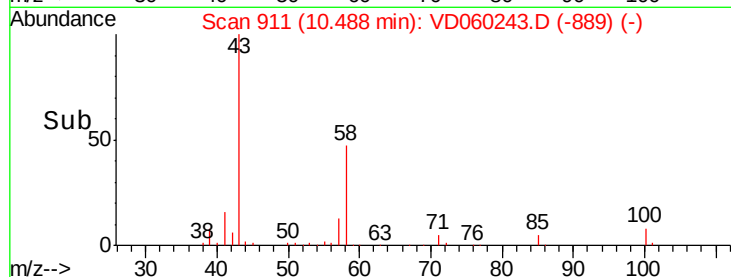
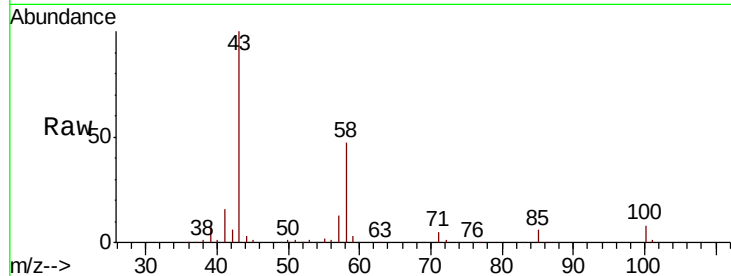
#59
2-Hexanone
Concen: 125.486 ug/l
RT: 10.49 min Scan# 911
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion: 43 Resp: 949213
Ion Ratio Lower Upper
43 100
58 46.5 23.3 69.9

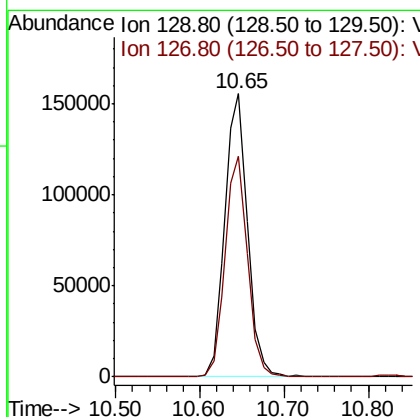
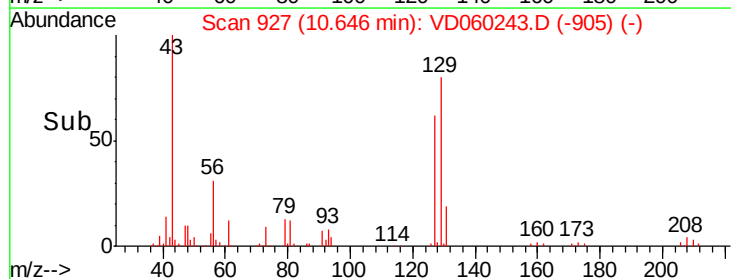
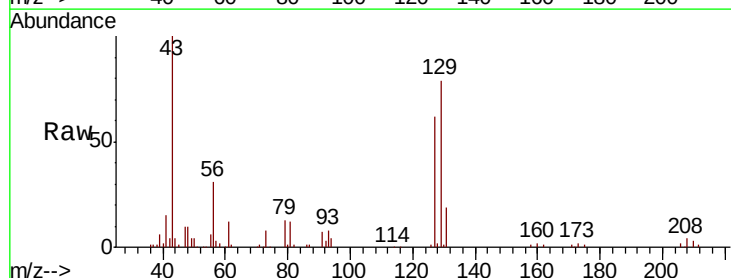
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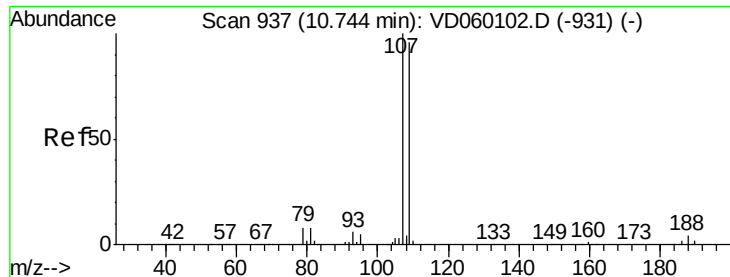
MMDadoda
11/1/2018 11:59:28 AM



#60
Dibromochloromethane
Concen: 22.498 ug/l
RT: 10.65 min Scan# 927
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion: 129 Resp: 290385
Ion Ratio Lower Upper
129 100
127 78.0 37.4 112.2





#61

1,2-Dibromoethane

Concen: 22.600 ug/l

RT: 10.76 min Scan# 939

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 107 Resp: 252619

Ion Ratio Lower Upper

107 100

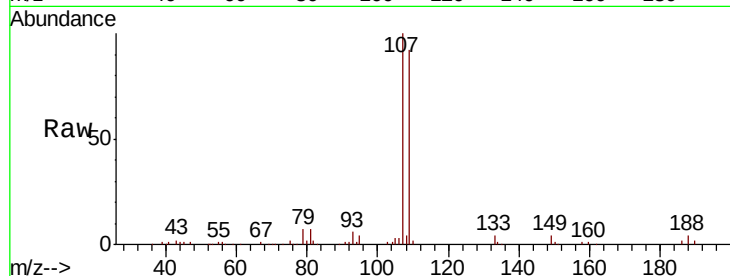
109 91.9 77.1 115.7

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.76

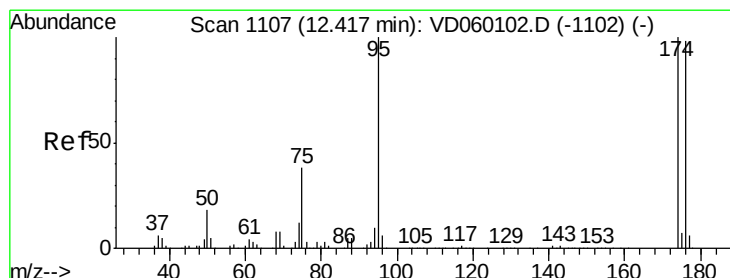
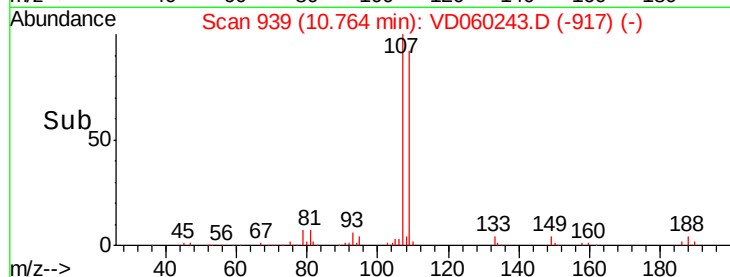
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 22.600 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

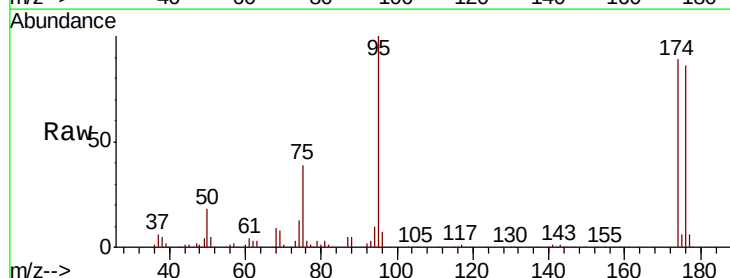
Tgt Ion: 95 Resp: 863541

Ion Ratio Lower Upper

95 100

174 88.9 0.0 200.2

176 86.2 0.0 195.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.43

800000

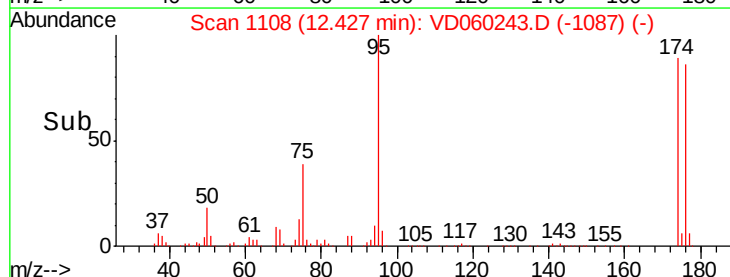
600000

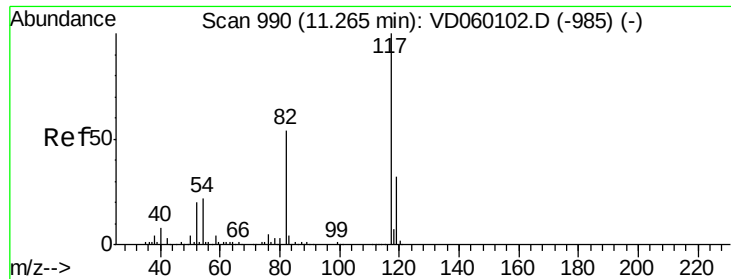
400000

200000

0

Time-->





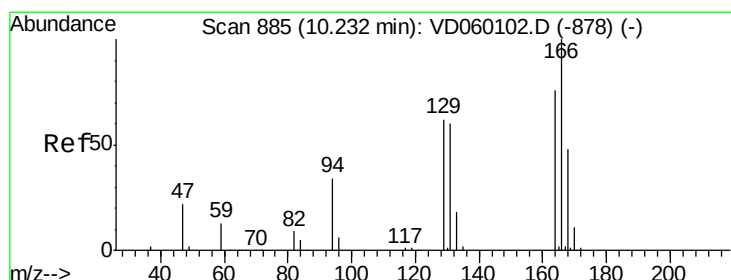
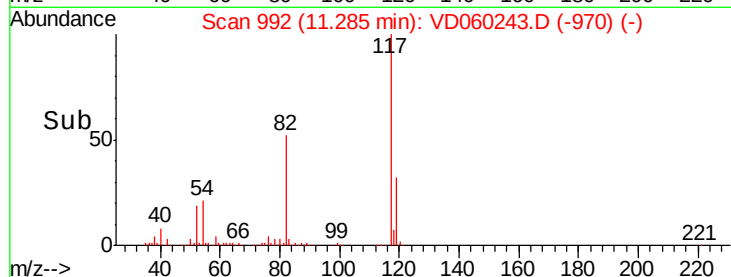
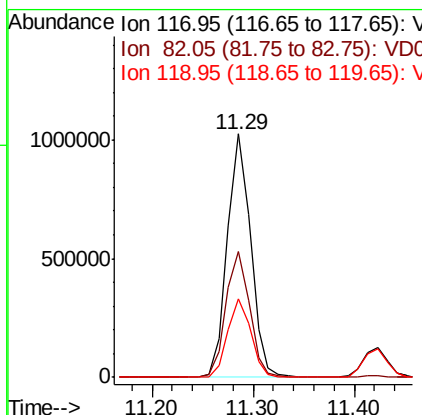
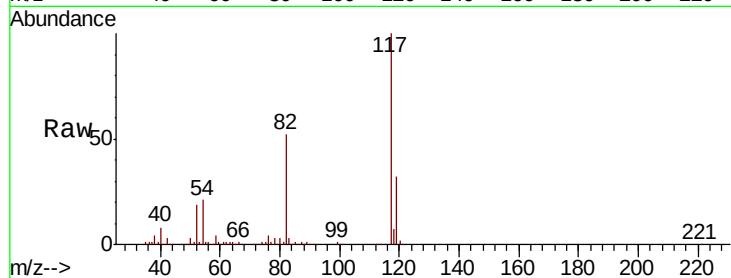
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.29 min Scan# 992
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion:117 Resp: 1648065
Ion Ratio Lower Upper
117 100
82 51.7 43.4 65.2
119 32.3 26.0 39.0

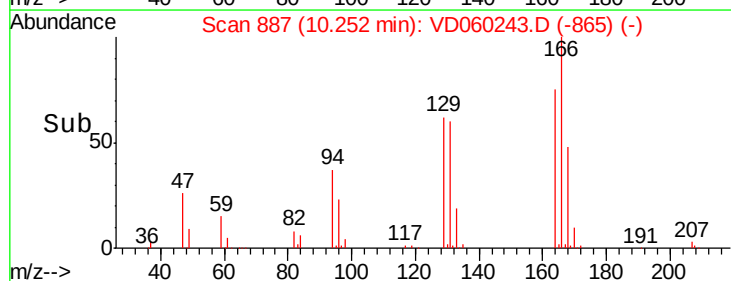
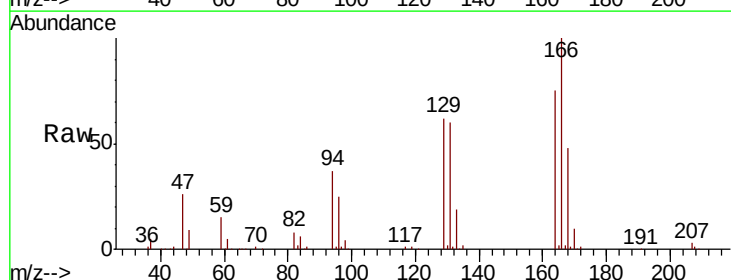
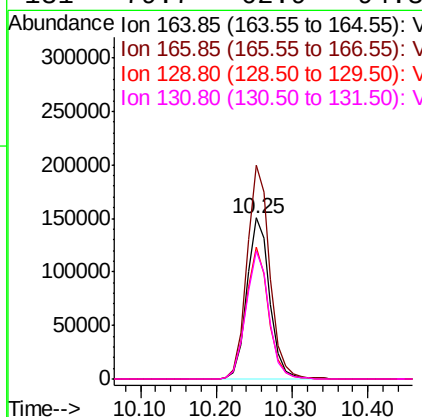
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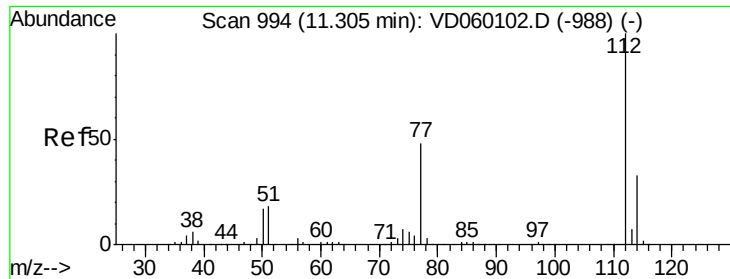
MMDadoda
11/1/2018 11:59:28 AM



#64
Tetrachloroethene
Concen: 21.791 ug/l
RT: 10.25 min Scan# 887
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion:164 Resp: 314551
Ion Ratio Lower Upper
164 100
166 132.9 105.4 158.0
129 81.8 65.7 98.5
131 79.7 62.9 94.3





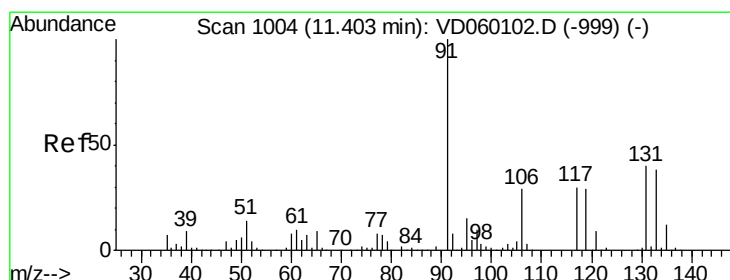
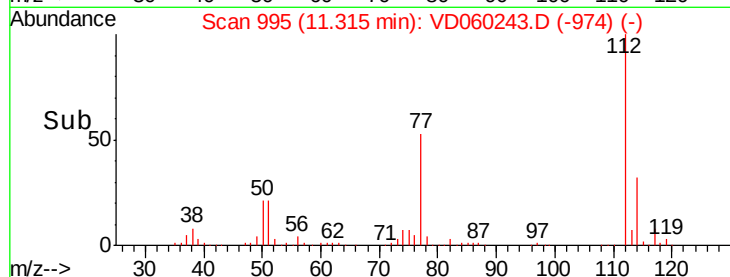
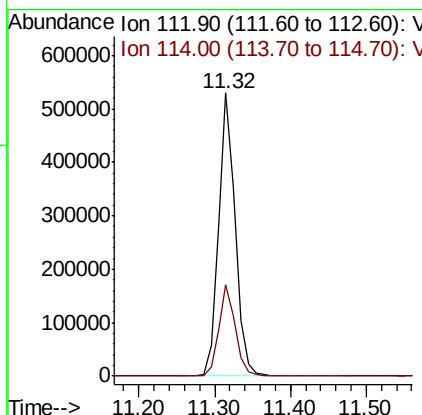
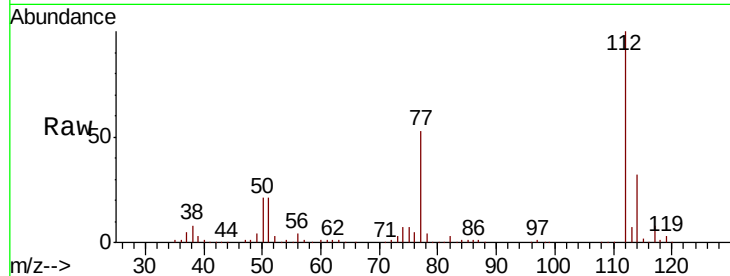
#65
Chlorobenzene
Concen: 23.042 ug/l
RT: 11.32 min Scan# 995
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion:112 Resp: 821529
Ion Ratio Lower Upper
112 100
114 32.4 26.0 39.0

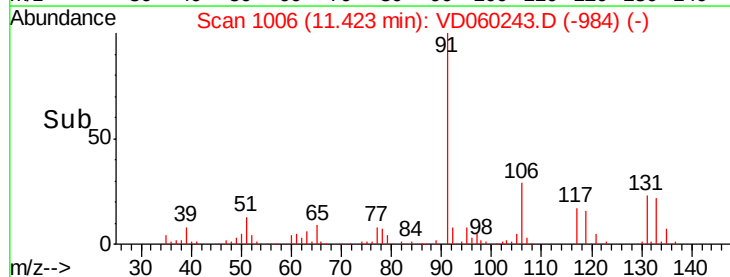
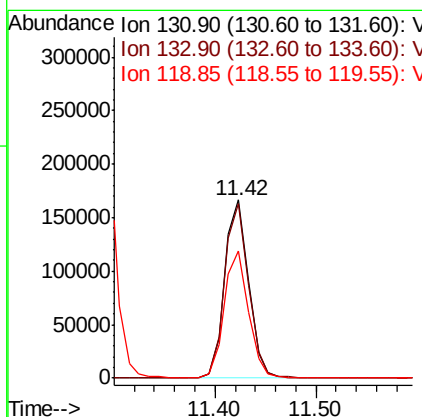
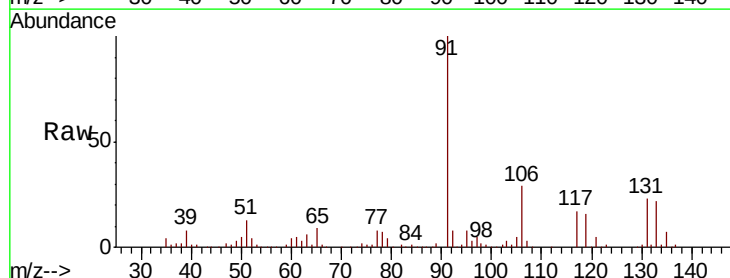
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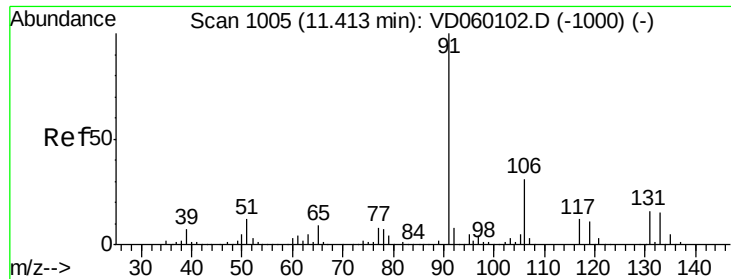
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 23.097 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion:131 Resp: 274718
Ion Ratio Lower Upper
131 100
133 97.7 47.4 142.3
119 71.4 36.1 108.3





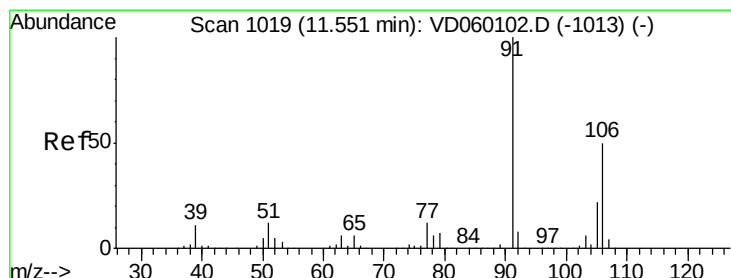
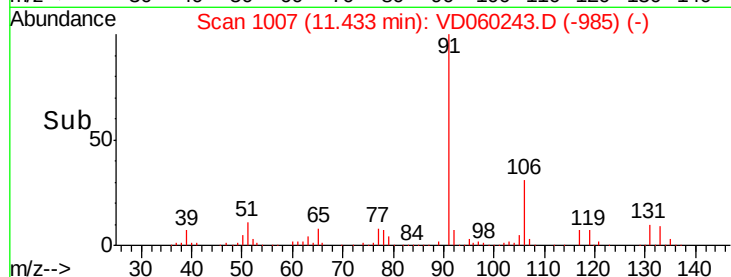
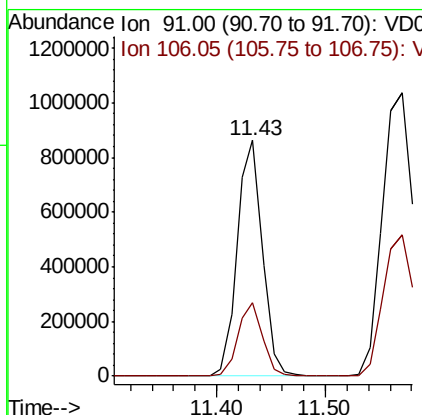
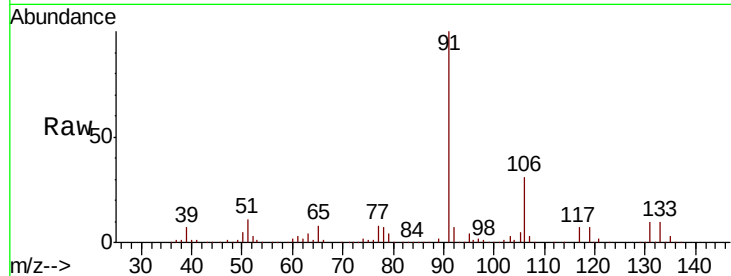
#67
Ethyl Benzene
Concen: 24.136 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion: 91 Resp: 1394233
Ion Ratio Lower Upper
91 100
106 31.0 24.4 36.6

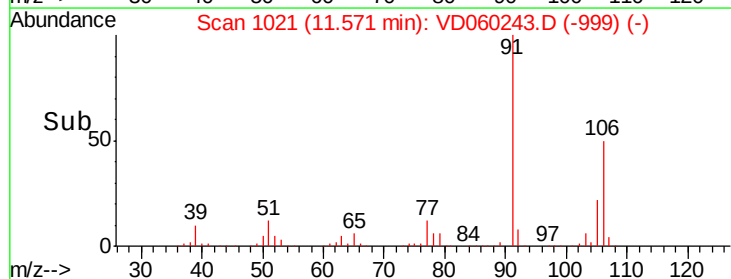
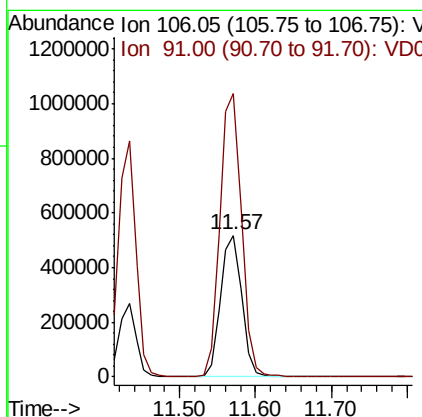
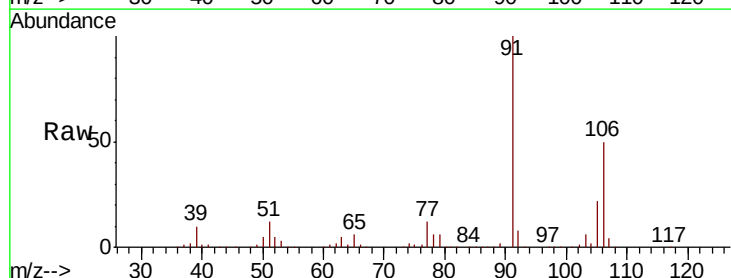
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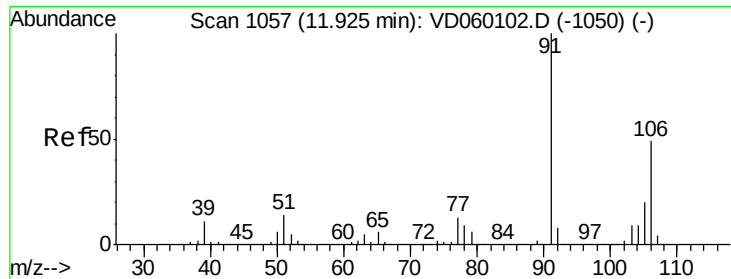
MMDadoda
11/1/2018 11:59:28 AM



#68
m/p-Xylenes
Concen: 46.987 ug/l
RT: 11.57 min Scan# 1021
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion: 106 Resp: 1014138
Ion Ratio Lower Upper
106 100
91 199.5 160.0 240.0





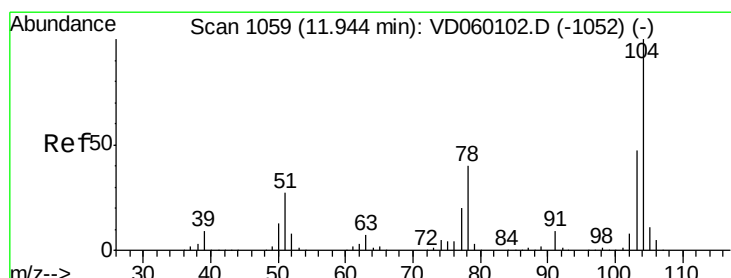
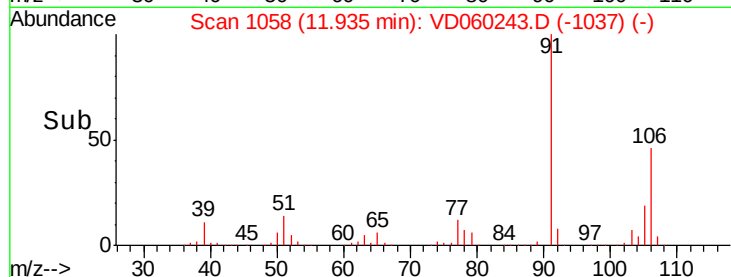
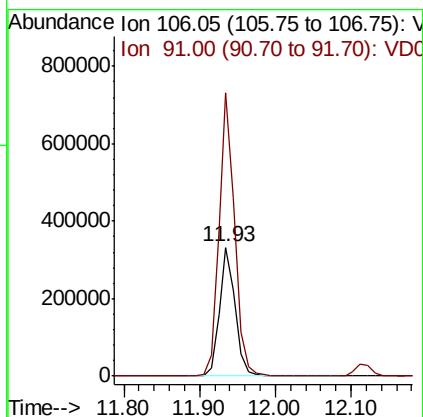
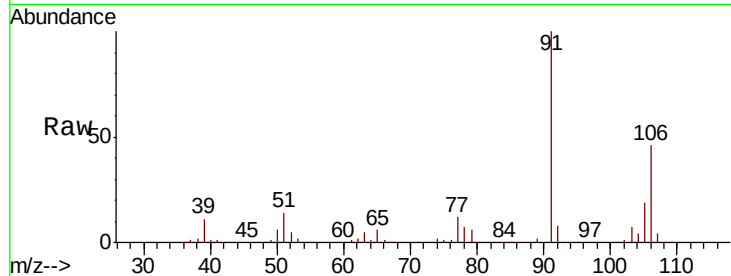
#69
o-Xylene
Concen: 22.780 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion:106 Resp: 486319
Ion Ratio Lower Upper
106 100
91 219.3 102.5 307.5

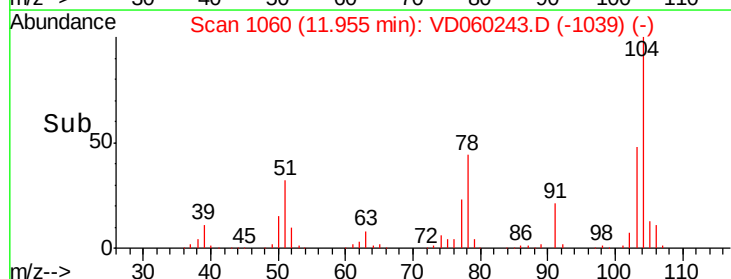
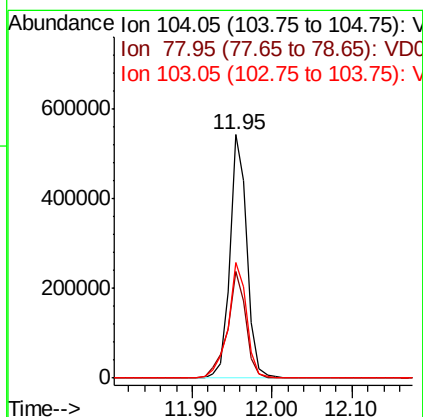
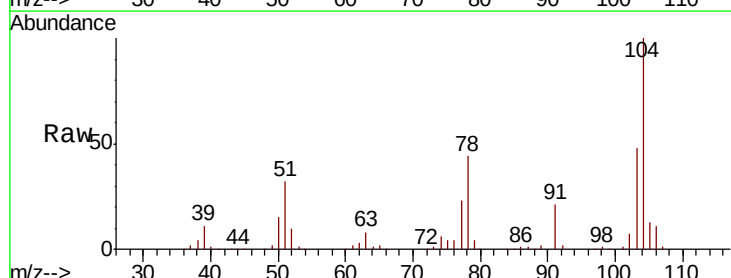
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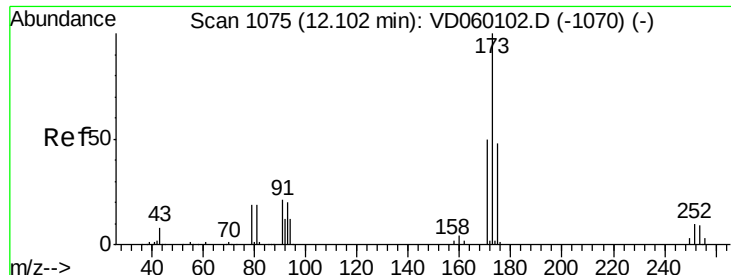
MMDadoda
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#70
Styrene
Concen: 22.819 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion:104 Resp: 814661
Ion Ratio Lower Upper
104 100
78 43.7 32.2 48.4
103 47.6 37.4 56.0





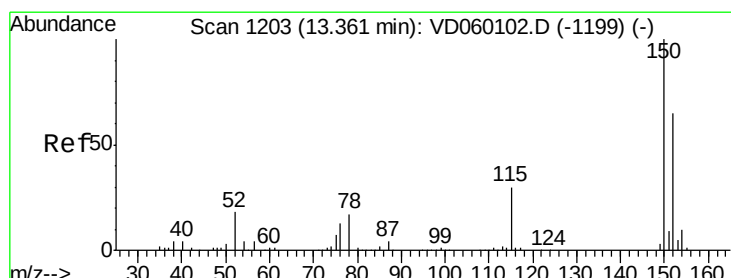
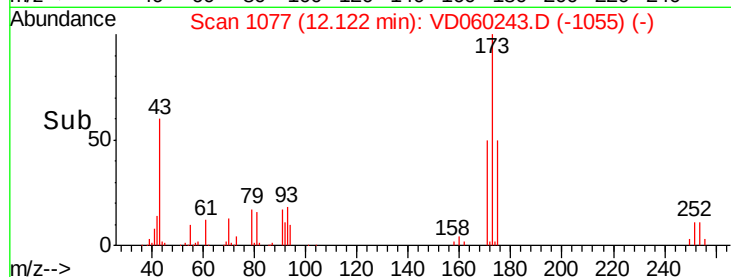
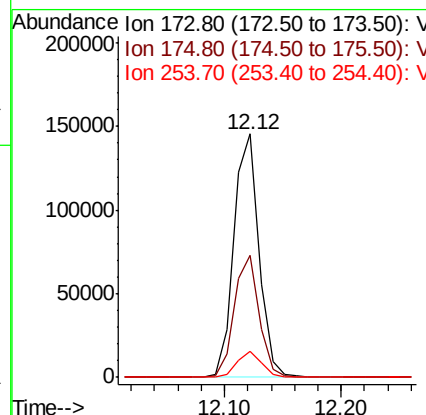
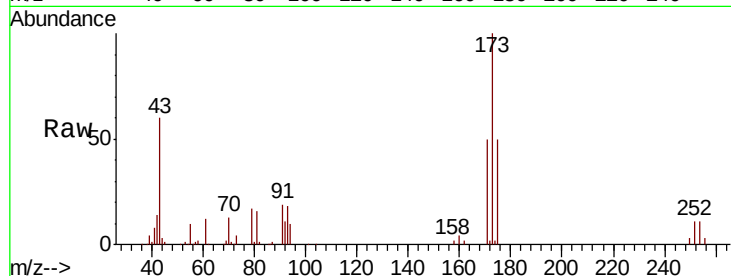
#71
Bromoform
Concen: 22.508 ug/l
RT: 12.12 min Scan# 1077
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.3	24.1	72.4
254	10.8	7.4	11.0

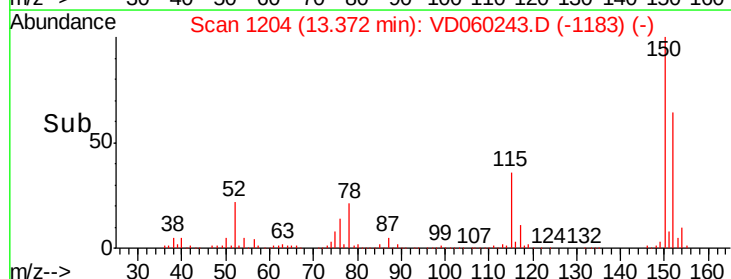
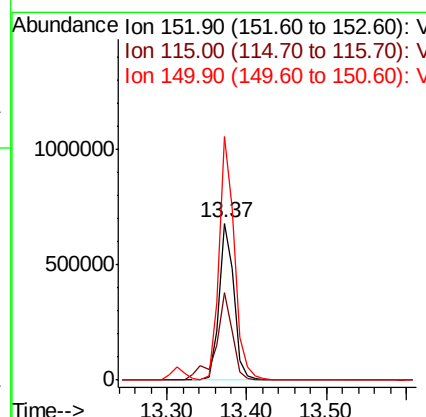
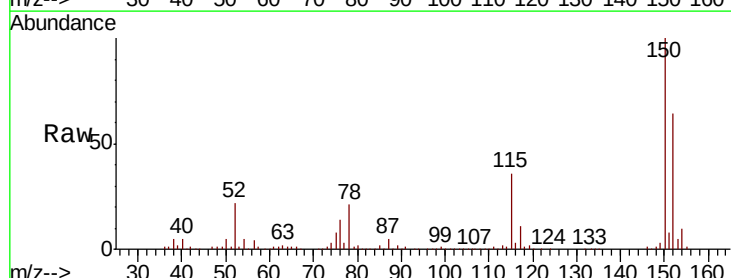
Manual Integrations
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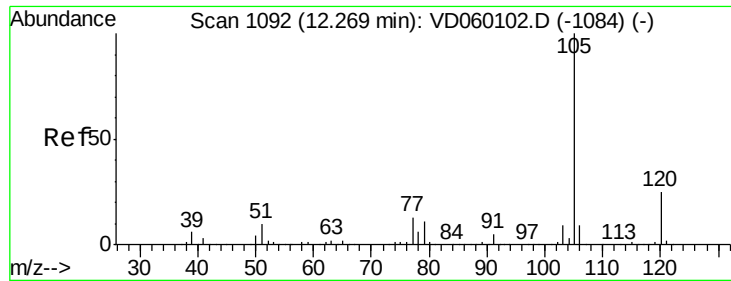
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.1	81.2
150	155.2	0.0	311.8





#73

Isopropylbenzene

Concen: 22.863 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion:105 Resp: 1349107

Ion Ratio Lower Upper

105 100

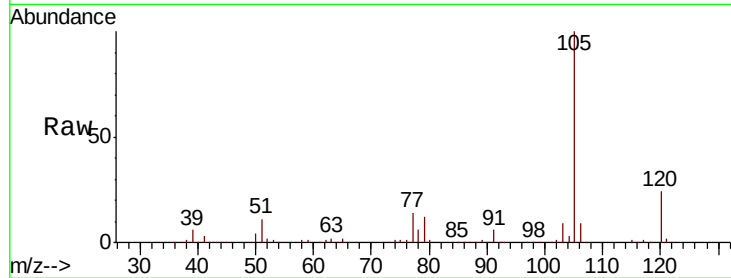
120 24.4 12.6 37.6

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

1000000

800000

600000

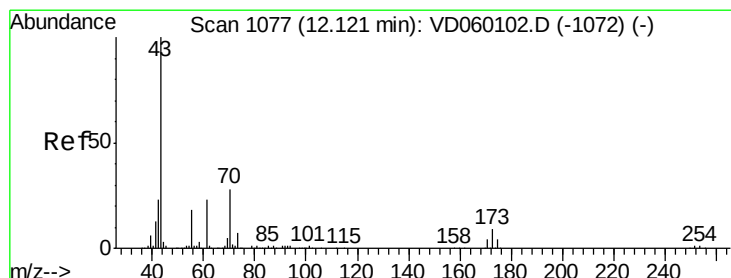
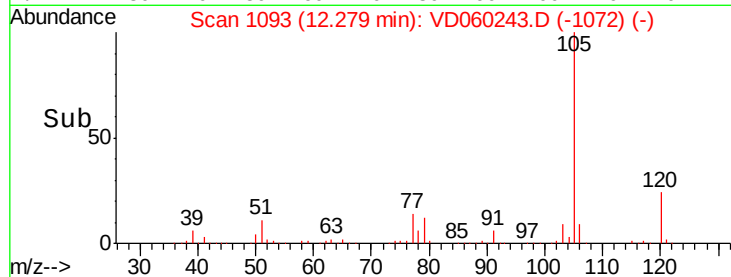
400000

200000

0

12.20 12.30 12.40

Time-->



#74

N-ethyl acetate

Concen: 22.688 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion: 43 Resp: 490371

Ion Ratio Lower Upper

43 100

70 25.7 22.1 33.1

55 16.8 14.1 21.1

61 21.3 18.4 27.6

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

500000

400000

300000

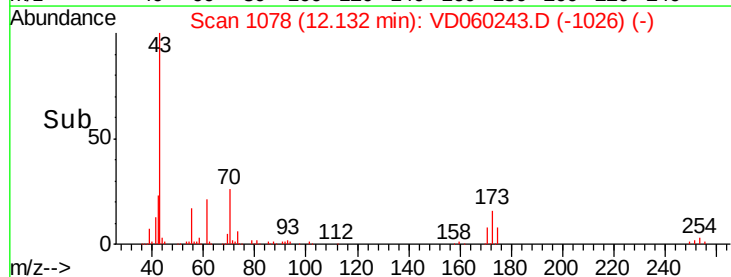
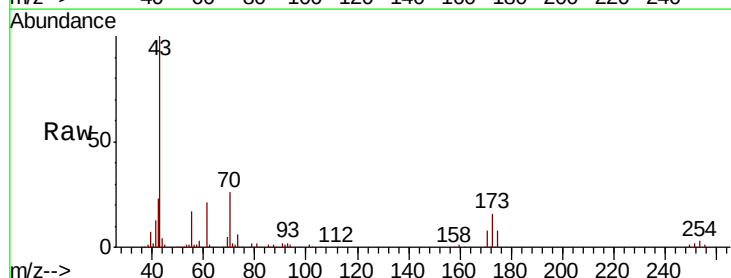
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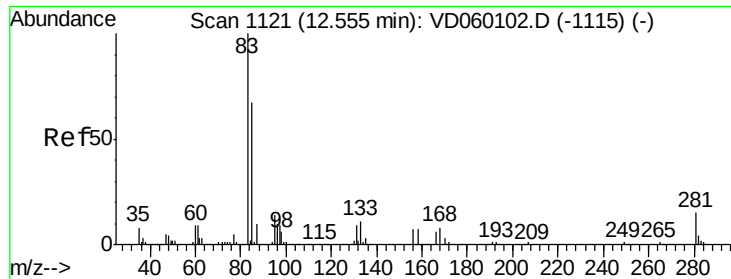
100000

0

12.00 12.10 12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.351 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

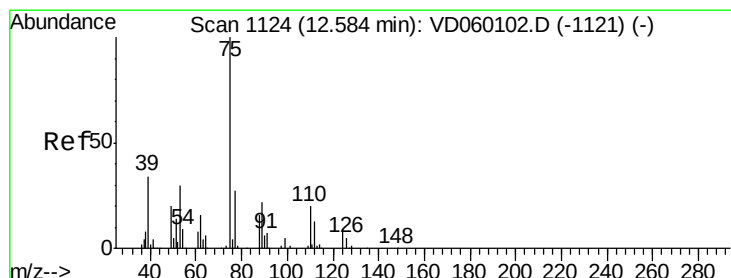
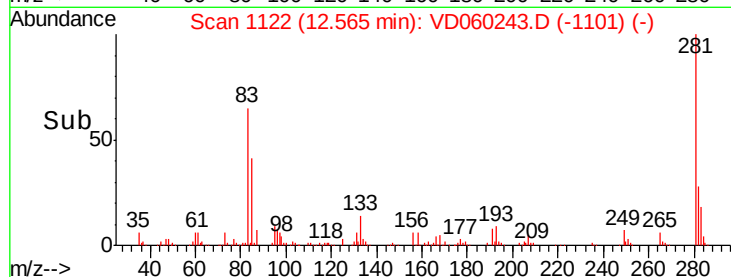
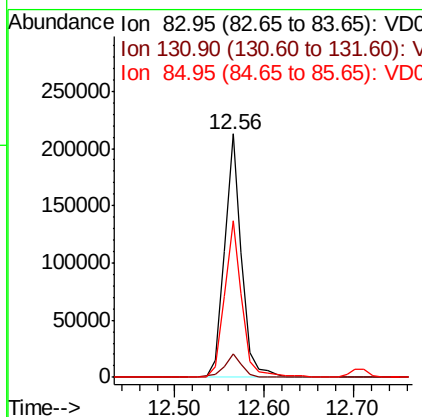
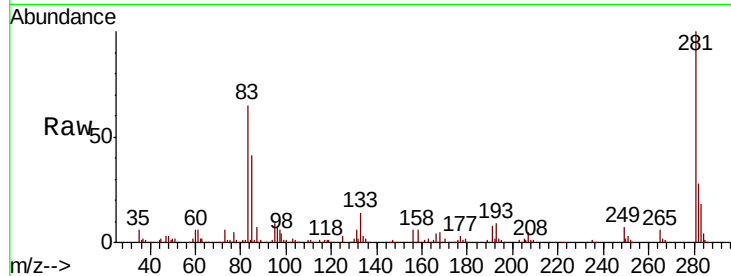
ClientSampleId :

VD1031SBS01

Tot Ion	83	Resp	287926
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.5	13.4
85	64.2	33.3	99.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.760 ug/l

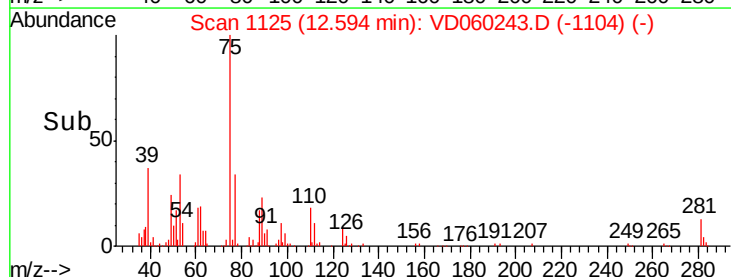
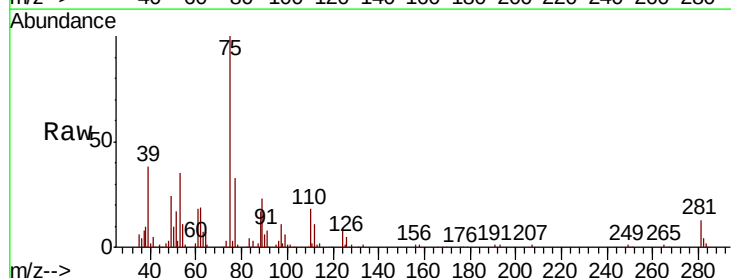
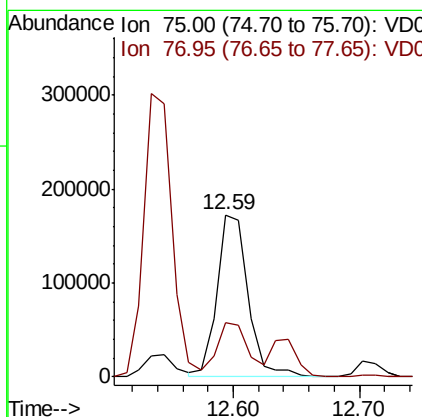
RT: 12.59 min Scan# 1125

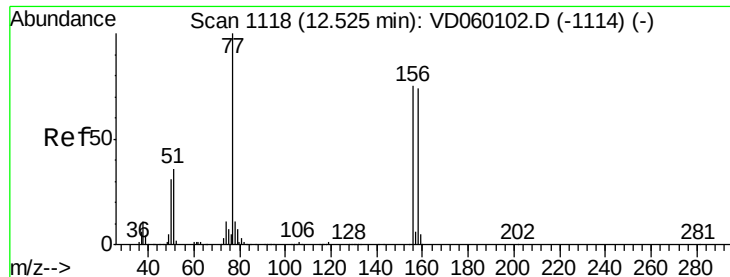
Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion	75	Resp	293163
Ion Ratio	Lower	Upper	
75	100		
77	33.5	16.3	48.9





#77

Bromobenzene

Concen: 21.853 ug/l

RT: 12.55 min Scan# 1120

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

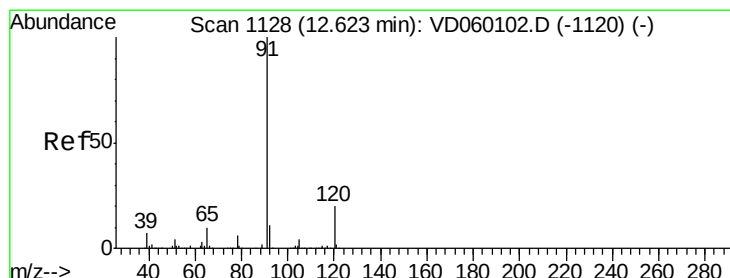
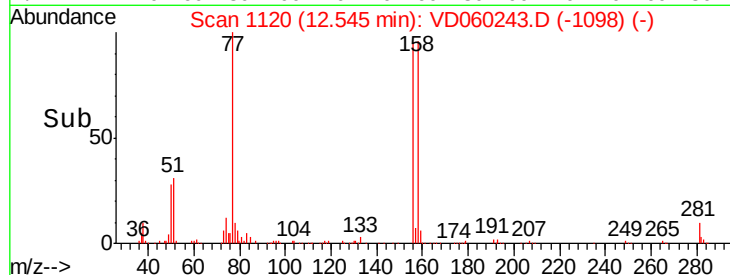
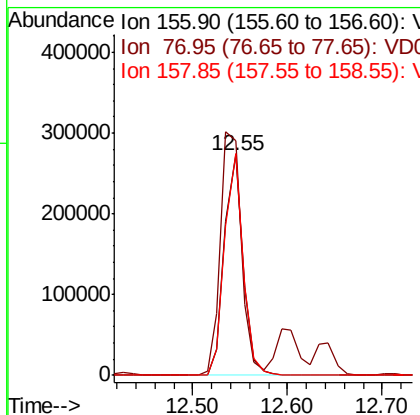
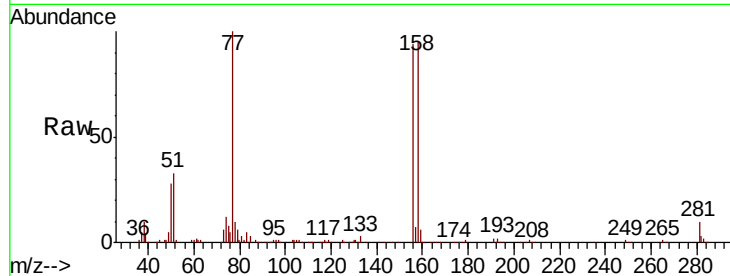
ClientSampleId :

VD1031SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	106.8	66.9	200.7
158	101.0	49.1	147.4

Manual Integrations
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#78

n-propylbenzene

Concen: 23.732 ug/l

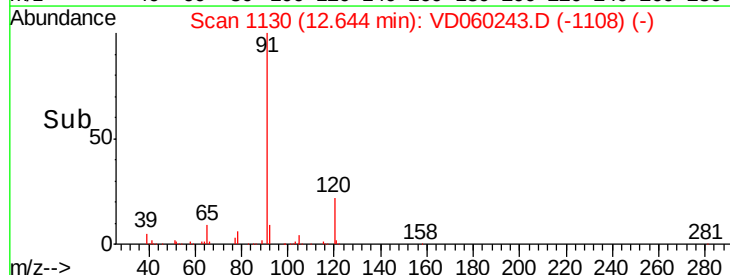
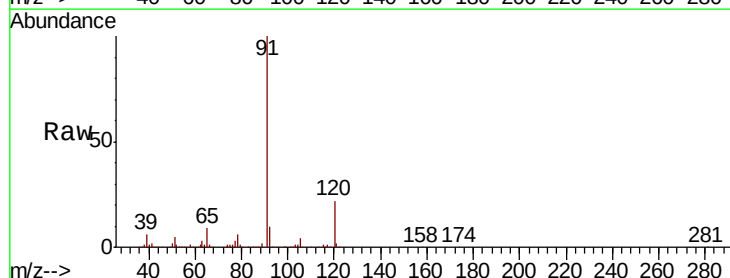
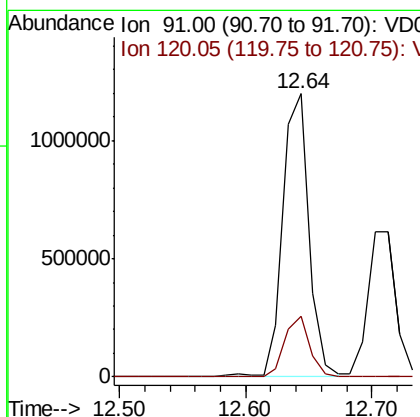
RT: 12.64 min Scan# 1130

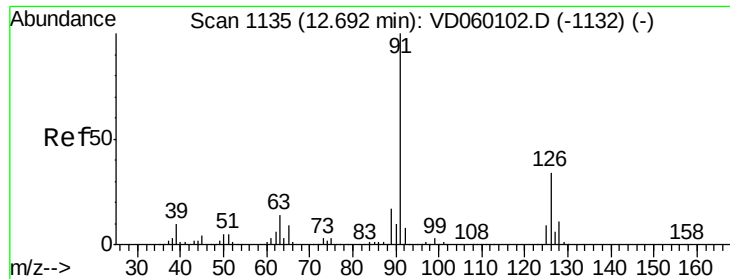
Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.0	30.0





#79

2-Chlorotoluene

Concen: 23.027 ug/l

RT: 12.71 min Scan# 1137

Delta R.T. 0.02 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion: 91 Resp: 936380

Ion Ratio Lower Upper

91 100

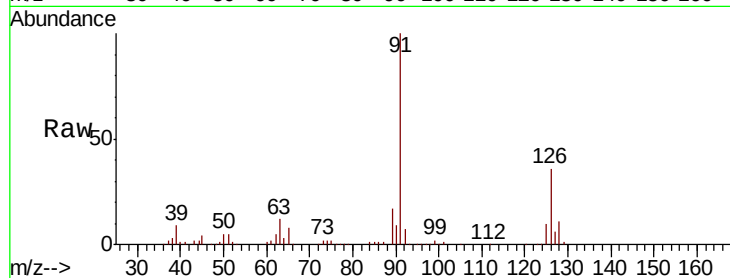
126 35.9 16.8 50.3

Manual Integrations

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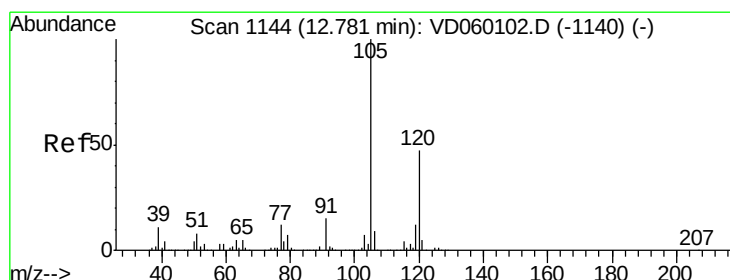
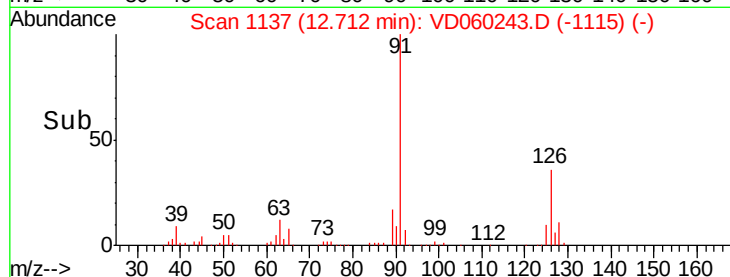
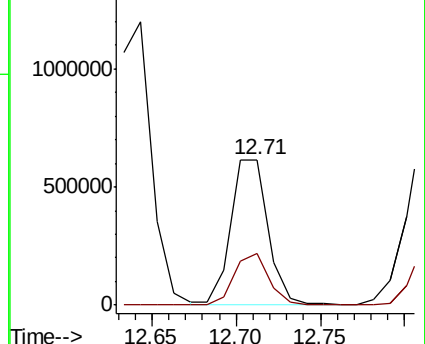
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Abundance Ion 91.00 (90.70 to 91.70): VD060102.D (-1132) (-)

Ion 125.95 (125.65 to 126.65): VD060102.D (-1132) (-)



#80

1,3,5-Trimethylbenzene

Concen: 23.616 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VD060243.D

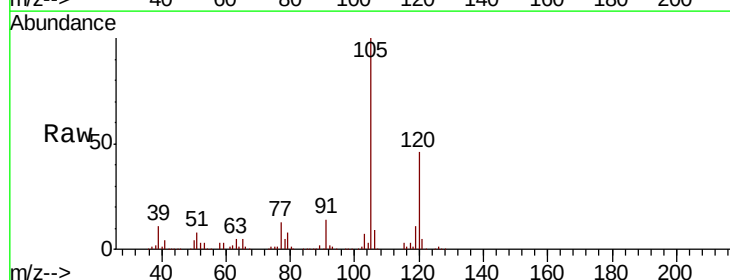
Acq: 31 Oct 2018 15:55

Tgt Ion:105 Resp: 1078537

Ion Ratio Lower Upper

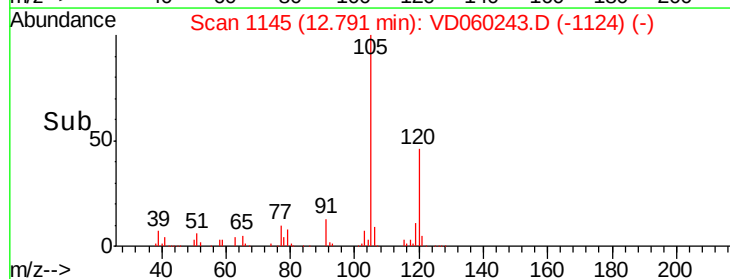
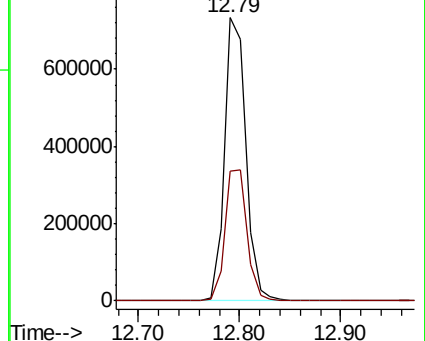
105 100

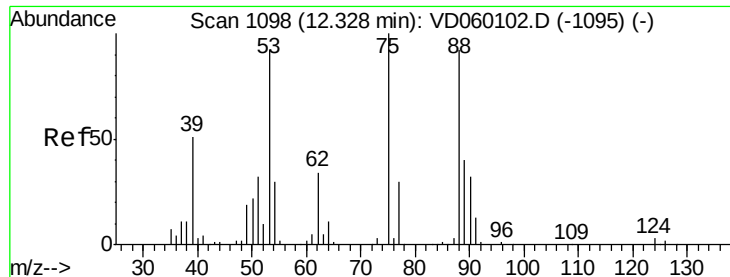
120 46.0 23.7 71.1



Abundance Ion 105.05 (104.75 to 105.75): VD060102.D (-1140) (-)

Ion 120.05 (119.75 to 120.75): VD060102.D (-1140) (-)





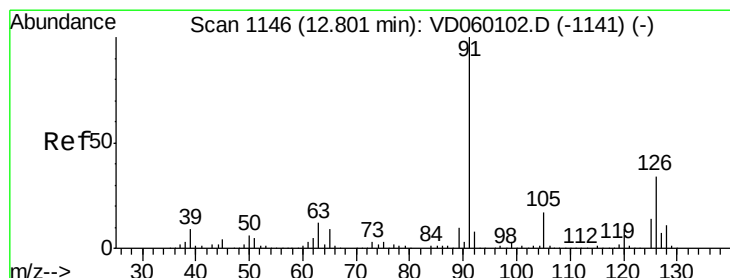
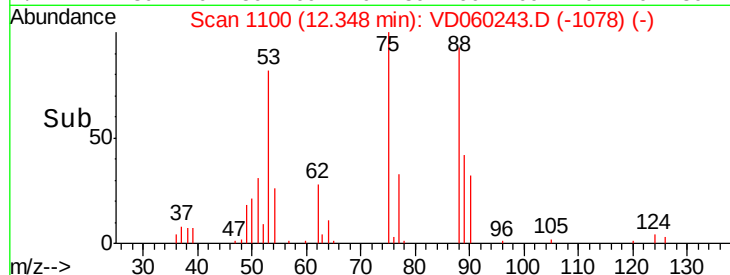
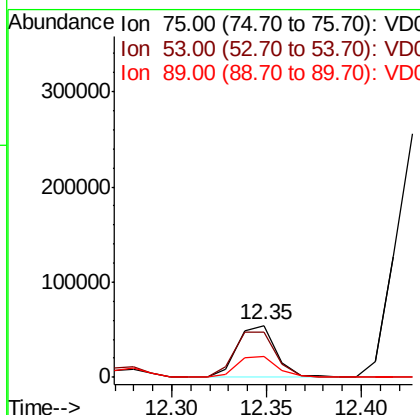
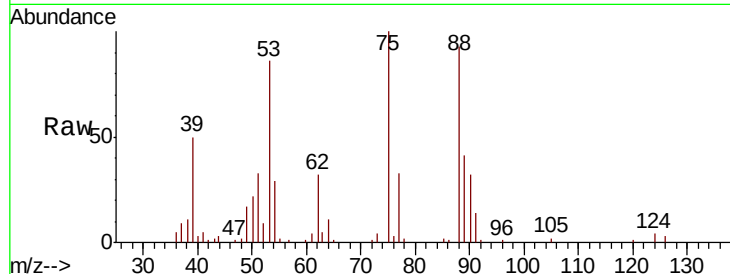
#81
trans-1,4-Dichloro-2-butene
Concen: 21.581 ug/l
RT: 12.35 min Scan# 1100
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion: 75 Resp: 78108
Ion Ratio Lower Upper
75 100
53 85.8 73.0 109.6
89 41.2 32.0 48.0

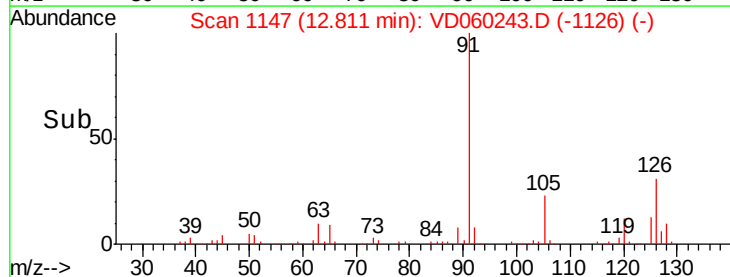
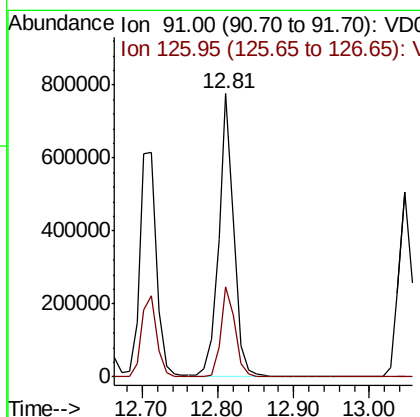
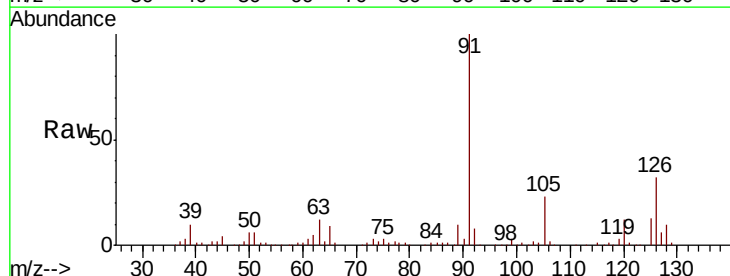
Manual Integrations
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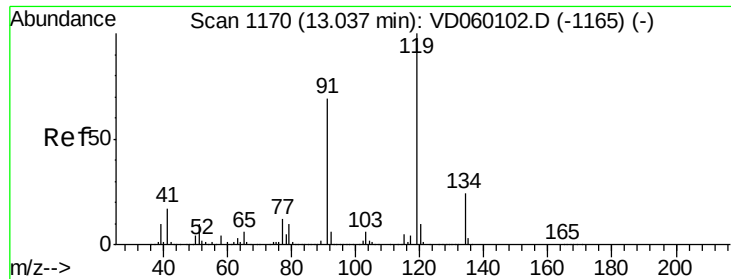
MMDadoda
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#82
4-Chlorotoluene
Concen: 23.422 ug/l
RT: 12.81 min Scan# 1147
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion: 91 Resp: 1077307
Ion Ratio Lower Upper
91 100
126 31.8 17.1 51.2





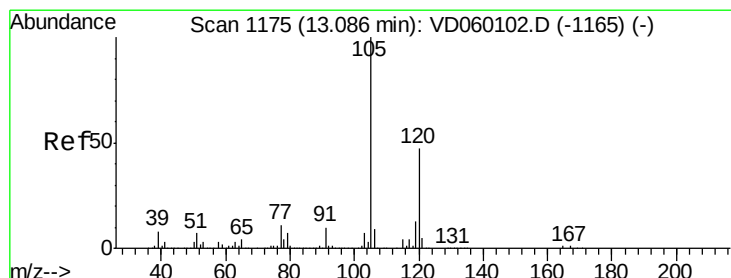
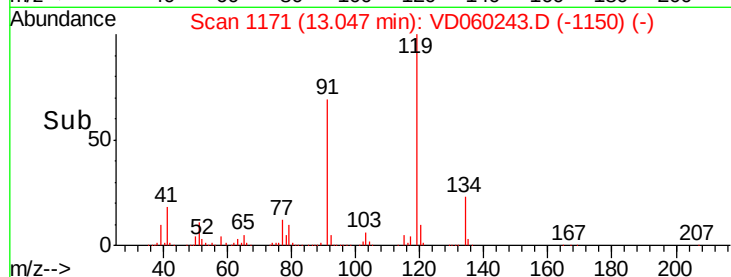
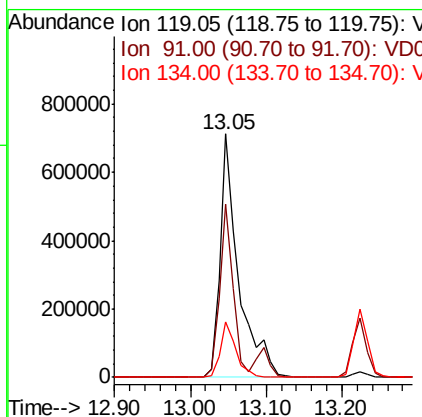
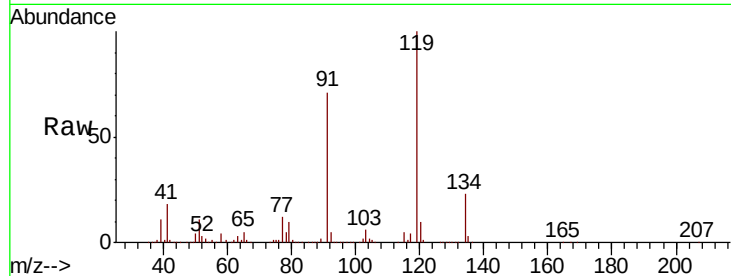
#83
tert-Butylbenzene
Concen: 23.436 ug/l
RT: 13.05 min Scan# 1171
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion:119 Resp: 1228198
Ion Ratio Lower Upper
119 100
91 71.0 34.8 104.4
134 22.9 11.8 35.4

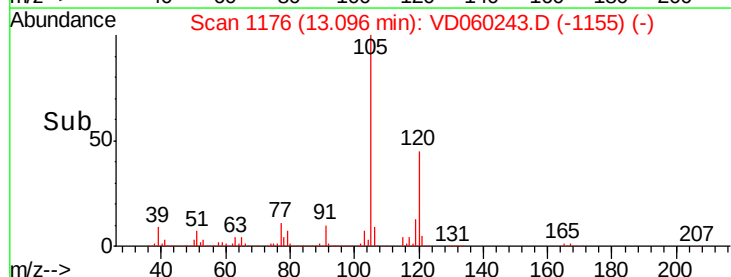
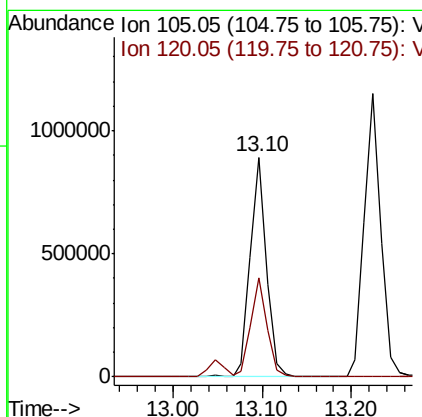
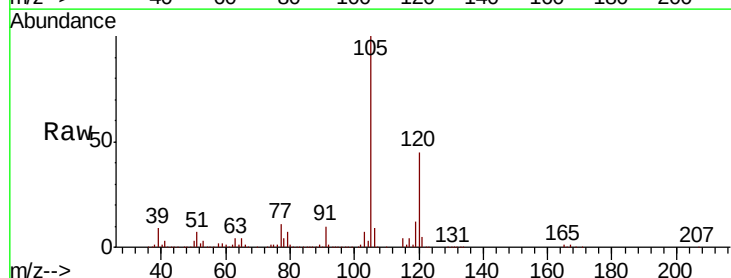
Manual Integrations
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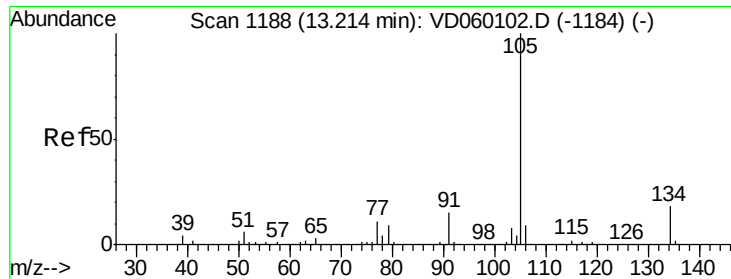
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#84
1,2,4-Trimethylbenzene
Concen: 23.241 ug/l
RT: 13.10 min Scan# 1176
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion:105 Resp: 1118657
Ion Ratio Lower Upper
105 100
120 45.1 23.4 70.0





#85

sec-Butylbenzene

Concen: 23.747 ug/l

RT: 13.22 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

Instrument :

MSVOA_D

ClientSampleId :

VD1031SBS01

Tot Ion:105 Resp: 1471477

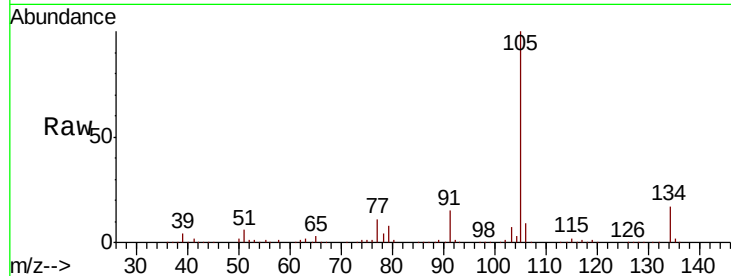
Ion Ratio Lower Upper

105 100

134 17.3 8.8 26.2

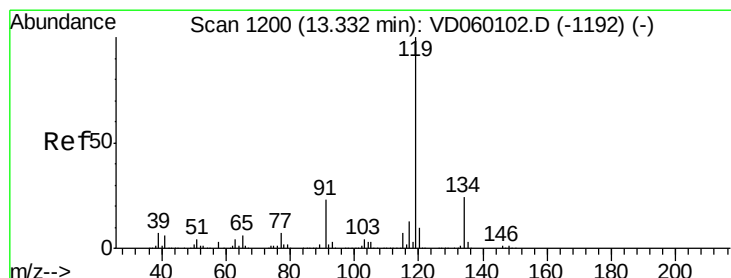
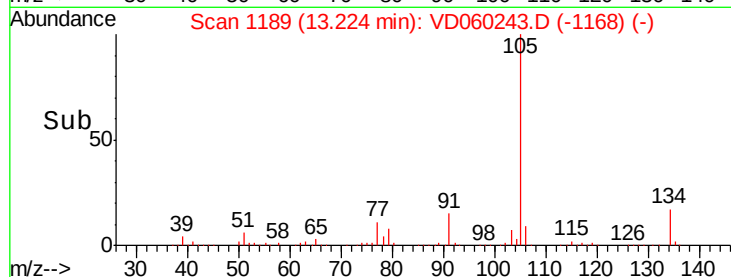
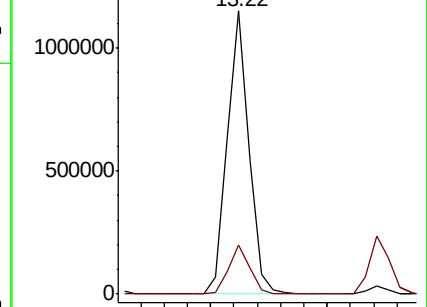
Manual Integrations
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 23.147 ug/l

RT: 13.34 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VD060243.D

Acq: 31 Oct 2018 15:55

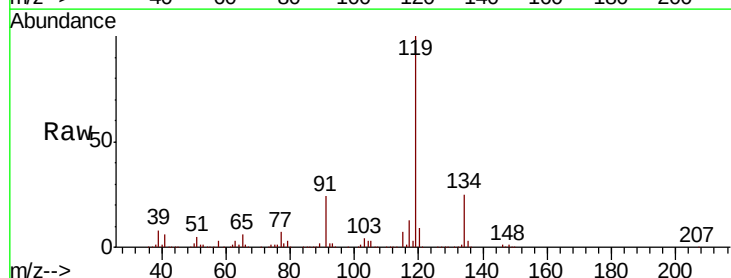
Tgt Ion:119 Resp: 1176439

Ion Ratio Lower Upper

119 100

134 24.6 12.3 36.8

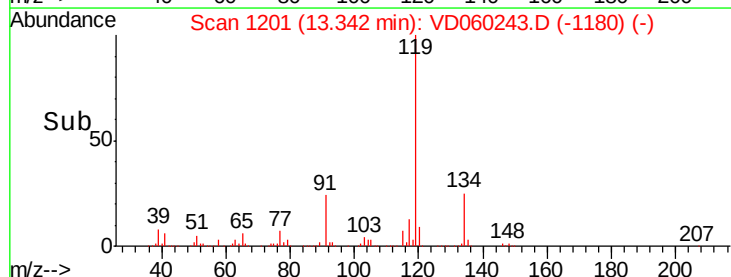
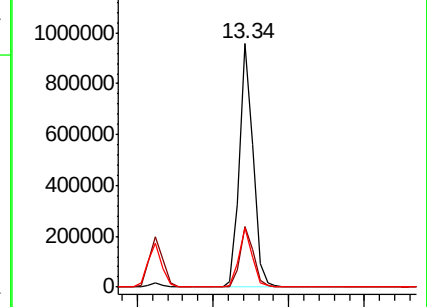
91 24.5 11.8 35.4

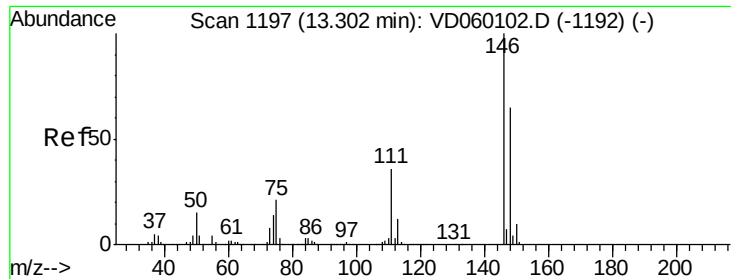


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





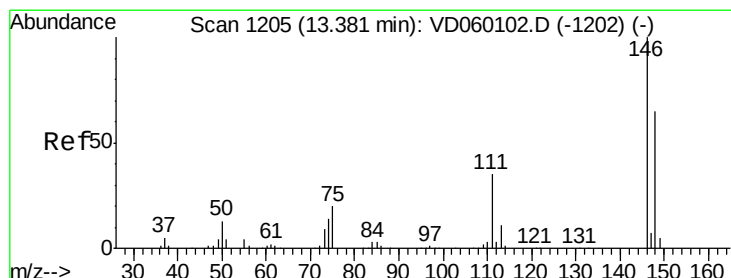
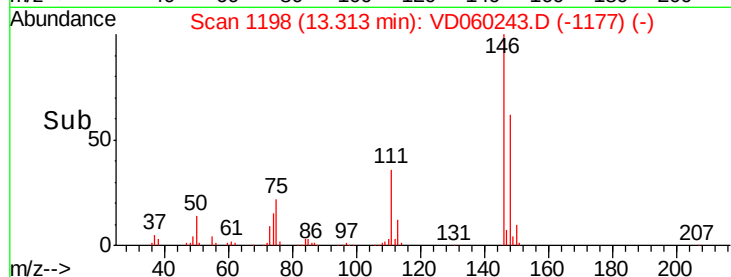
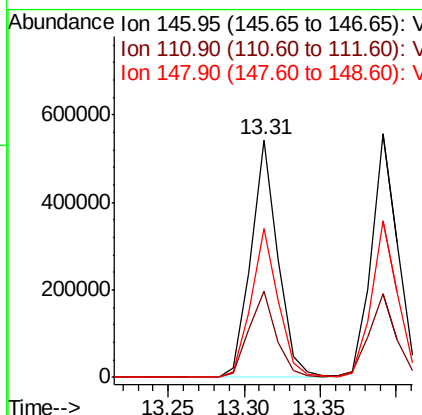
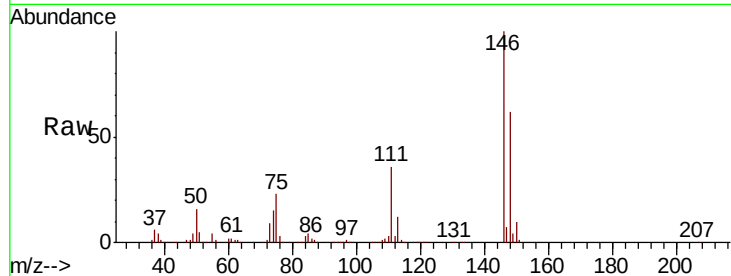
#87
 1,3-Dichlorobenzene
 Concen: 22.476 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. 0.01 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.1	54.3
148	62.4	32.3	96.9

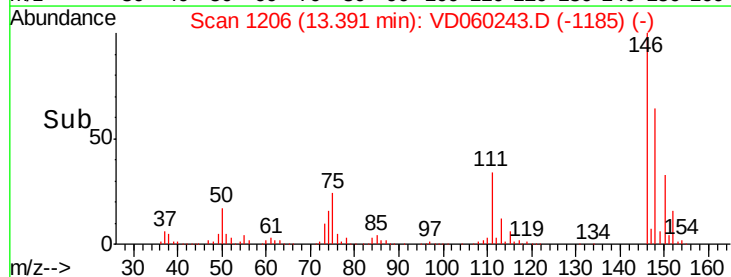
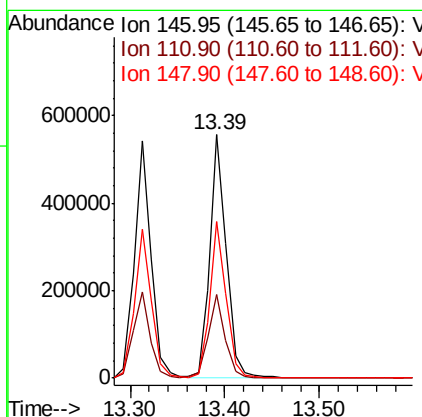
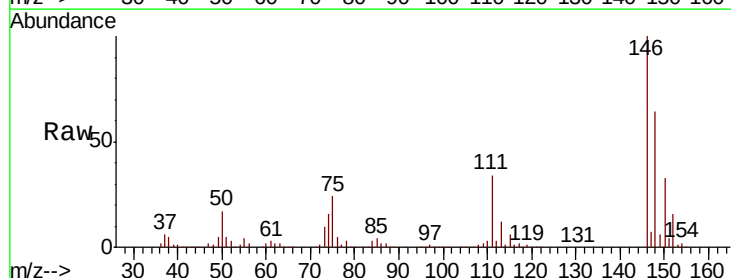
Manual Integrations
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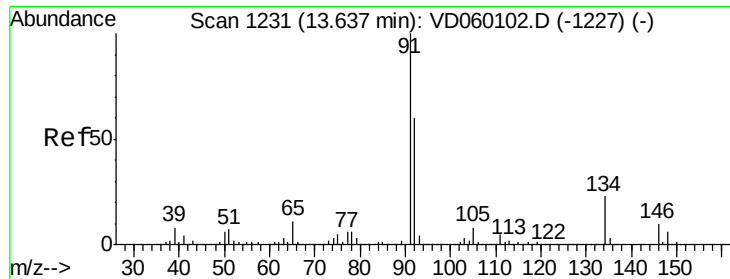
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 11/1/2018 11:59:28 AM



#88
 1,4-Dichlorobenzene
 Concen: 22.709 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. 0.01 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.5	17.8	53.3
148	64.2	32.4	97.2





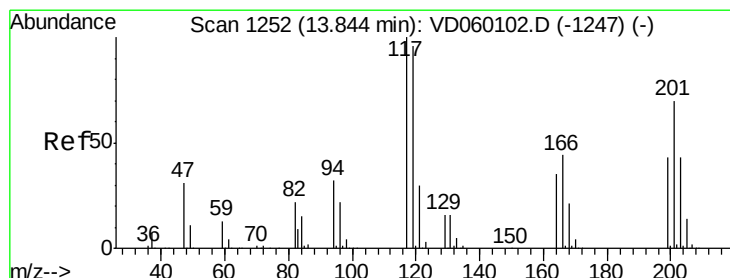
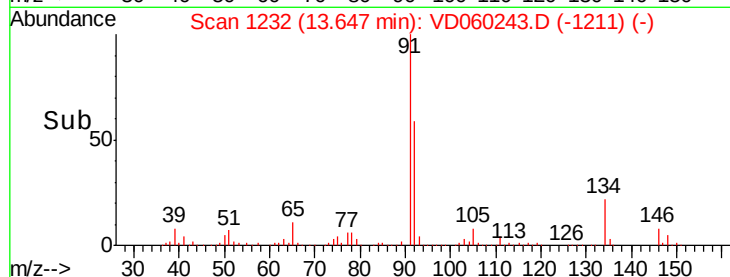
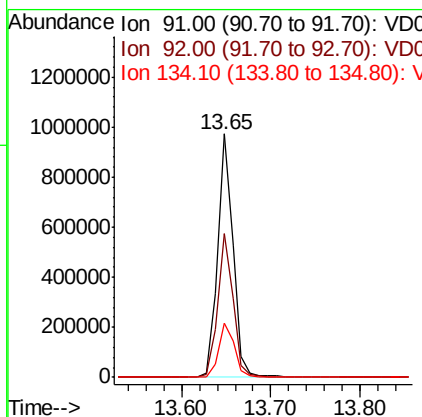
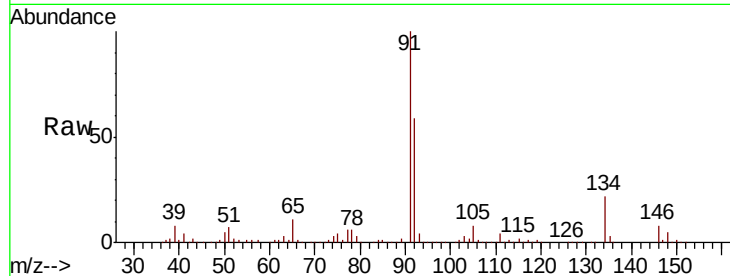
#89
n-Butylbenzene
Concen: 23.636 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion: 91 Resp: 1172129
Ion Ratio Lower Upper
91 100
92 59.2 30.1 90.3
134 22.4 11.6 34.7

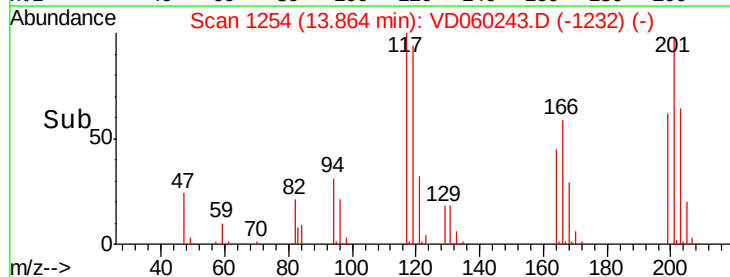
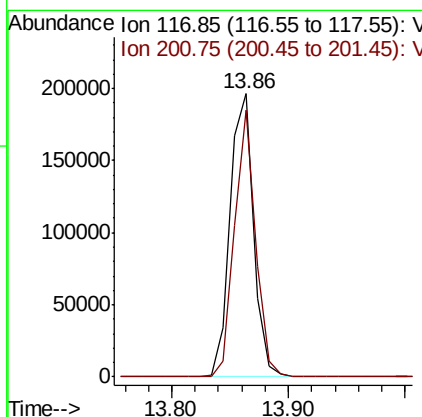
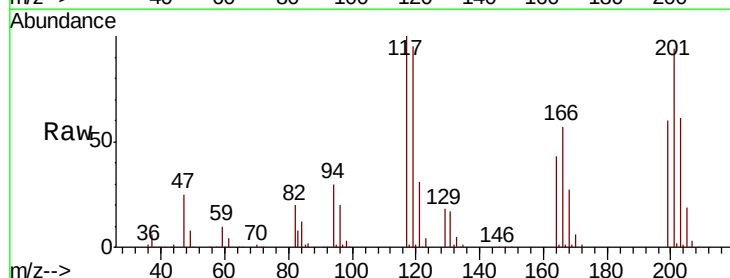
Manual Integrations
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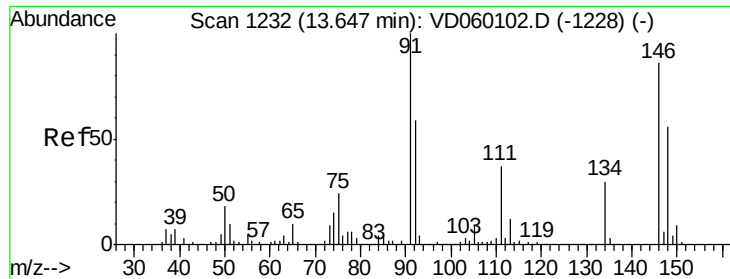
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#90
Hexachloroethane
Concen: 23.284 ug/l
RT: 13.86 min Scan# 1254
Delta R.T. 0.02 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion: 117 Resp: 273875
Ion Ratio Lower Upper
117 100
201 94.5 34.8 104.5





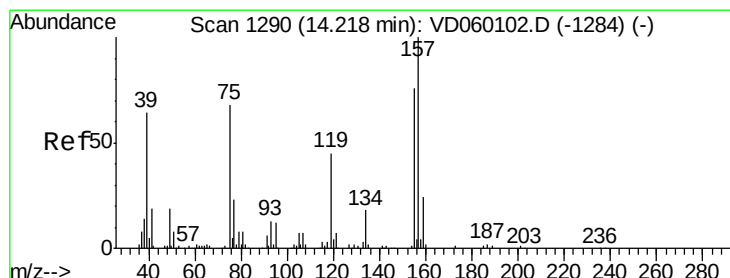
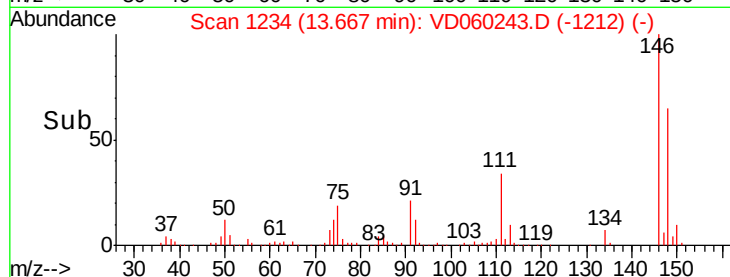
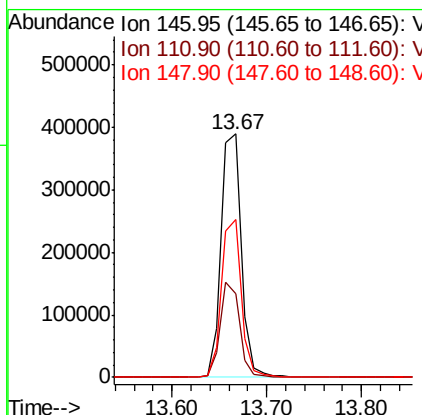
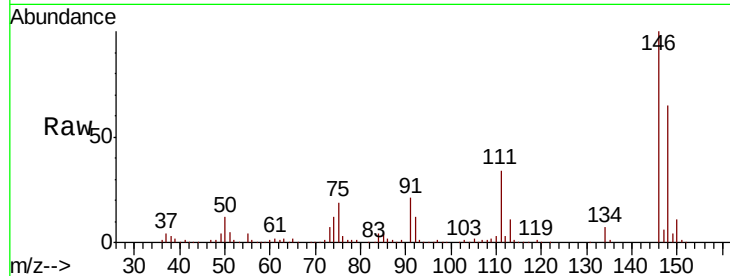
#91
 1,2-Dichlorobenzene
 Concen: 22.858 ug/l
 RT: 13.67 min Scan# 1234
 Delta R.T. 0.02 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1031SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	21.4	64.3
148	64.6	32.2	96.6

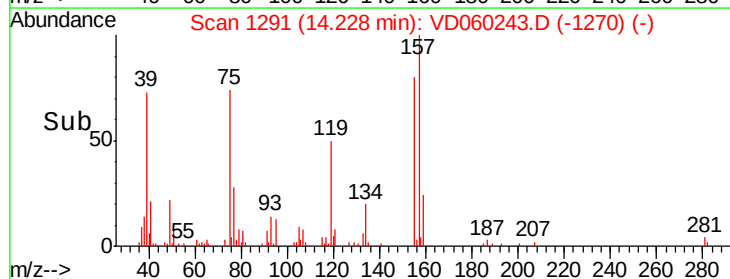
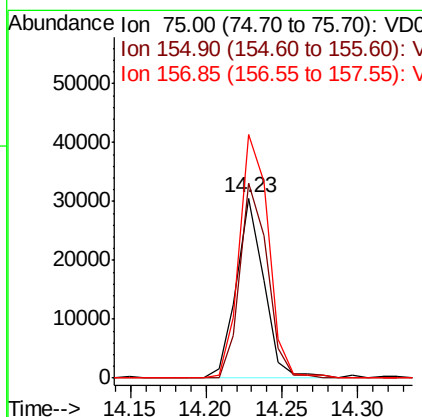
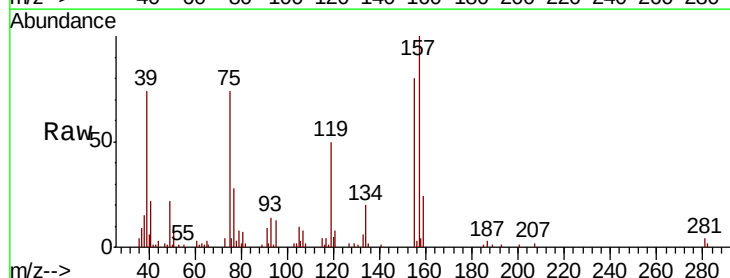
Manual Integrations
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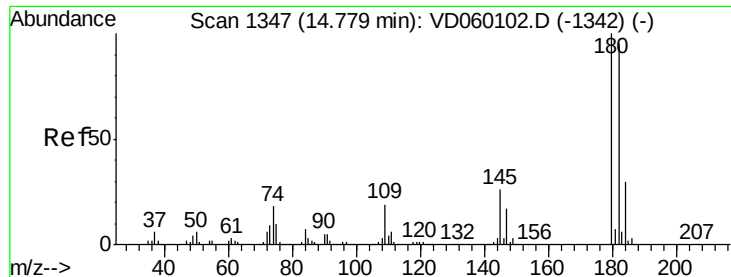
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 11/1/2018 11:59:28 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.593 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: VD060243.D
 Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	108.1	55.9	167.7
157	135.2	73.3	219.8





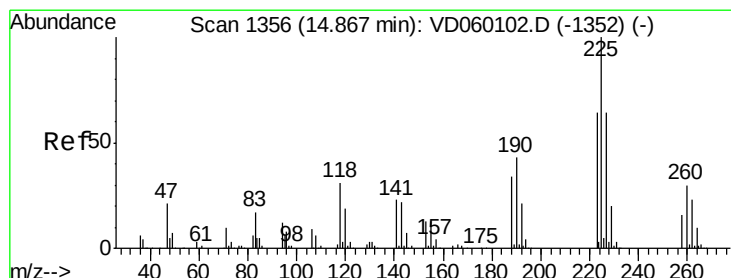
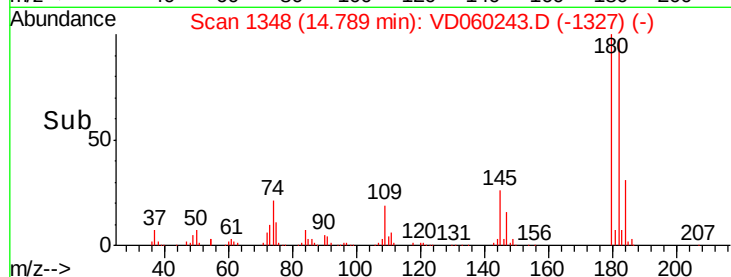
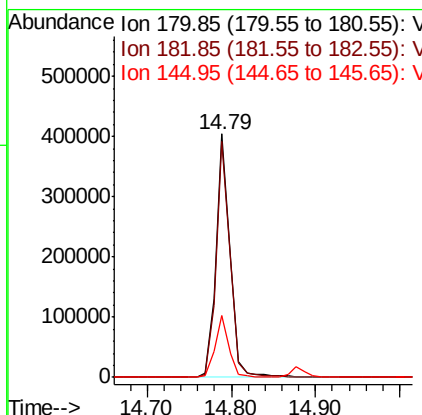
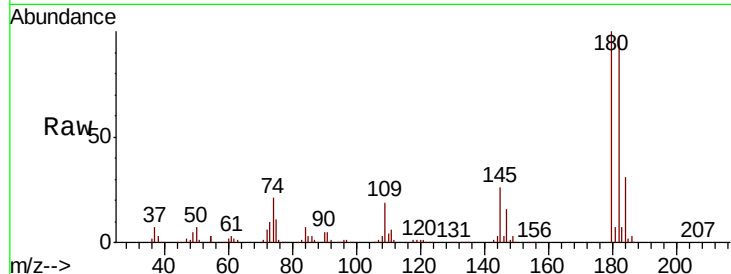
#93
1,2,4-Trichlorobenzene
Concen: 21.954 ug/l
RT: 14.79 min Scan# 1348
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.3	141.8
145	25.7	13.0	38.9

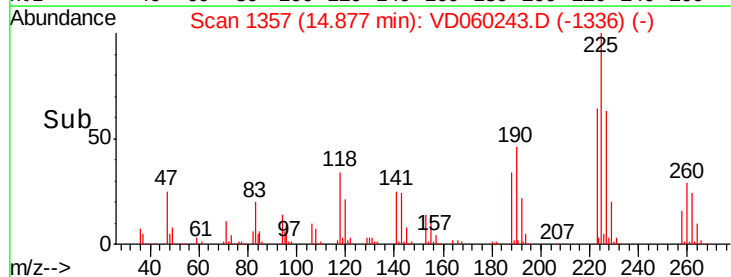
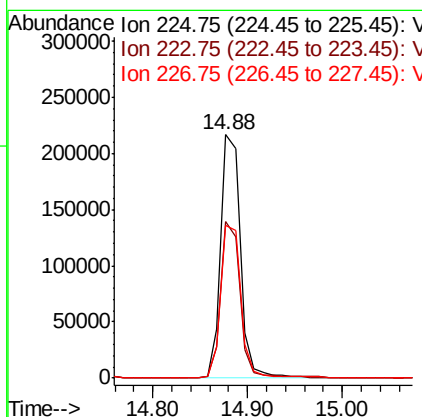
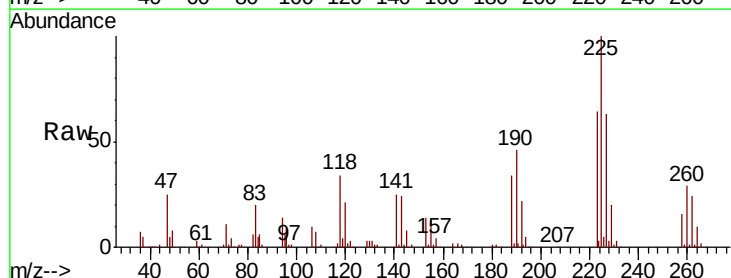
Manual Integrations
APPROVED

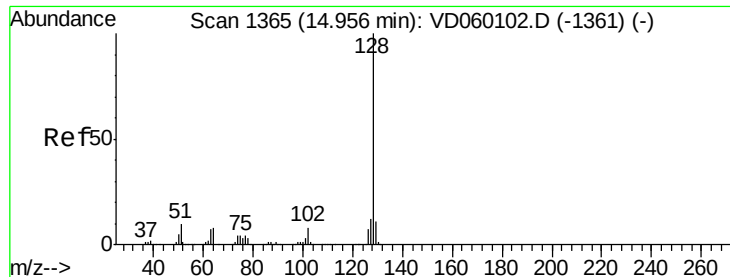
MMDadoda
11/1/2018 11:59:28 AM



#94
Hexachlorobutadiene
Concen: 22.239 ug/l
RT: 14.88 min Scan# 1357
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.8	95.4
227	62.8	32.0	96.0





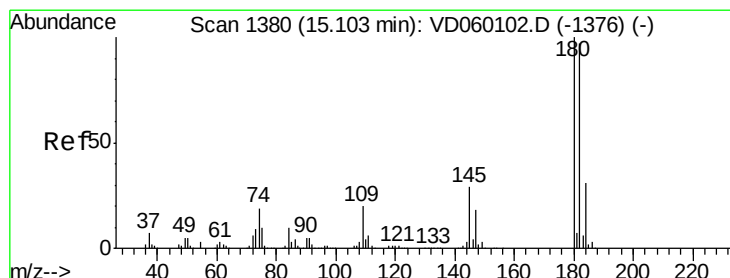
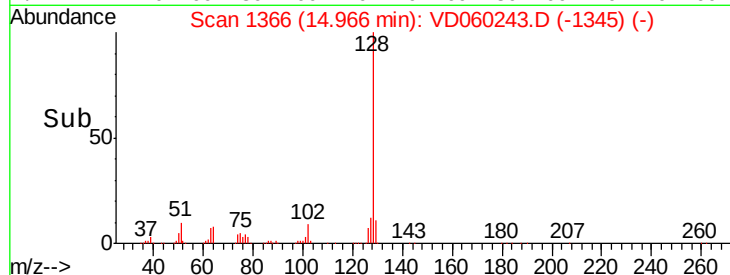
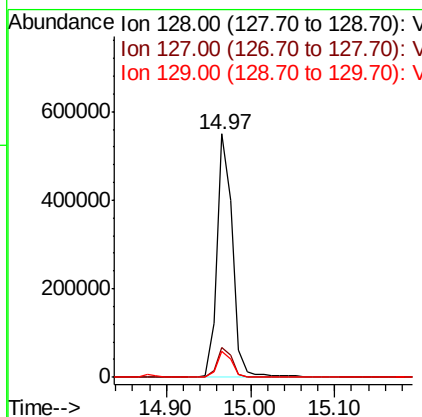
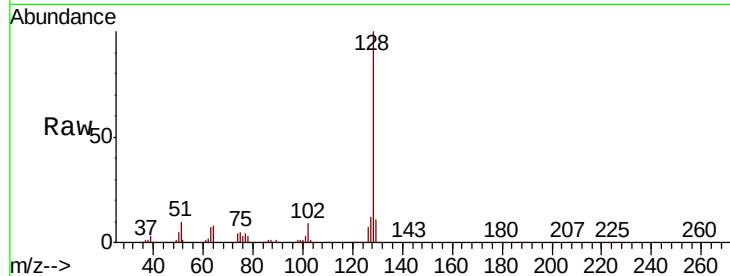
#95
Naphthalene
Concen: 22.146 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Instrument :
MSVOA_D
ClientSampleId :
VD1031SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.9	14.9
129	10.8	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
11/1/2018 11:59:28 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.992 ug/l
RT: 15.11 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD060243.D
Acq: 31 Oct 2018 15:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.8	48.4	145.0
145	28.8	14.5	43.6

