

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032319\
 Data File : VD061290.D
 Acq On : 23 Mar 2019 19:38
 Operator : VA/AP
 Sample : VD0323SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/26/2019 2:40:27 PM

Quant Time: Mar 25 07:28:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	515884	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	895836	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	718967	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	325871	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	229974	53.56	ug/l	0.01
Spiked Amount			Recovery	=	107.12%	
35) Dibromofluoromethane	6.93	113	366865	55.18	ug/l	0.00
Spiked Amount			Recovery	=	110.36%	
50) Toluene-d8	10.41	98	859426	51.48	ug/l	0.01
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	13.55	95	338841	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	102288	20.017	ug/l	97
3) Chloromethane	1.76	50	85161	20.005	ug/l	97
4) Vinyl Chloride	1.86	62	86793	22.065	ug/l	100
5) Bromomethane	2.15	94	16375	20.698	ug/l	83
6) Chloroethane	2.27	64	24725	21.000	ug/l	92
7) Trichlorofluoromethane	2.54	101	130559	23.105	ug/l	94
8) Diethyl Ether	2.88	74	44620	23.936	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	3.16	101	144518	22.876	ug/l	97
10) Methyl Iodide	3.31	142	153920	19.587	ug/l	97
11) Tert butyl alcohol	4.07	59	31805	116.343	ug/l	98
12) 1,1-Dichloroethene	3.14	96	114149	22.043	ug/l	94
13) Acrolein	3.05	56	24536	62.031	ug/l	94
14) Allyl chloride	3.63	41	162302	19.589	ug/l	99
15) Acrylonitrile	4.20	53	121320	125.566	ug/l	95
16) Acetone	3.23	43	140347	114.294	ug/l	100
17) Carbon Disulfide	3.38	76	329066	18.838	ug/l	99
18) Methyl Acetate	3.65	43	50747	20.999	ug/l	99
19) Methyl tert-butyl Ether	4.24	73	230046	25.349	ug/l	97
20) Methylene Chloride	3.83	84	160082	26.389	ug/l	95
21) trans-1,2-Dichloroethene	4.23	96	128694	22.961	ug/l	95
22) Diisopropyl ether	5.13	45	374964	21.801	ug/l	99
23) Vinyl Acetate	5.06	43	1015444	115.007	ug/l	99
24) 1,1-Dichloroethane	5.00	63	212507	22.550	ug/l	97
25) 2-Butanone	6.07	43	169176	121.414	ug/l	99
26) 2,2-Dichloropropane	6.03	77	167632	22.786	ug/l	97
27) cis-1,2-Dichloroethene	6.04	96	144172	24.244	ug/l	99
28) Bromochloromethane	6.44	49	70438	17.656	ug/l	93
29) Tetrahydrofuran	6.46	42	83723	110.656	ug/l	97
30) Chloroform	6.67	83	228073	23.351	ug/l	97
31) Cyclohexane	6.96	56	162086	21.331	ug/l	96
32) 1,1,1-Trichloroethane	6.88	97	194964	23.089	ug/l	99
36) 1,1-Dichloropropene	7.15	75	171778	22.245	ug/l	97
37) Ethyl Acetate	6.19	43	78918	21.779	ug/l	96
38) Carbon Tetrachloride	7.11	117	235323m	27.666	ug/l	

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	167814	20.958	ug/l	98
40) Benzene	7.46	78	409921	21.245	ug/l	98
41) Methacrylonitrile	6.44	41	88522	21.238	ug/l #	94
42) 1,2-Dichloroethane	7.59	62	130954	23.387	ug/l	99
43) Isopropyl Acetate	9.24	43	108839	21.686	ug/l #	99
44) Trichloroethene	8.55	130	158572	23.821	ug/l	92
45) 1,2-Dichloropropane	8.94	63	109345	21.570	ug/l	100
46) Dibromomethane	9.06	93	73848	22.966	ug/l	97
47) Bromodichloromethane	9.38	83	156882	21.620	ug/l	97
48) Methyl methacrylate	9.12	41	64312	22.759	ug/l	97
49) 1,4-Dioxane	9.08	88	12148	425.140	ug/l #	94
51) 4-Methyl-2-Pentanone	10.30	43	344495	112.042	ug/l	99
52) Toluene	10.51	92	272734	22.731	ug/l	95
53) t-1,3-Dichloropropene	10.91	75	148301	22.351	ug/l	99
54) cis-1,3-Dichloropropene	10.04	75	178642	22.408	ug/l	98
55) 1,1,2-Trichloroethane	11.19	97	95930	24.008	ug/l	96
56) Ethyl methacrylate	11.04	69	98436	23.536	ug/l	98
57) 1,3-Dichloropropane	11.41	76	139560	23.372	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.86	63	230333	104.042	ug/l	99
59) 2-Hexanone	11.53	43	255167	113.451	ug/l	98
60) Dibromochloromethane	11.68	129	137462	23.375	ug/l	96
61) 1,2-Dibromoethane	11.81	107	108668	23.378	ug/l	98
64) Tetrachloroethene	11.26	164	126147	25.992	ug/l	95
65) Chlorobenzene	12.40	112	330787	23.469	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	131534	26.180	ug/l	97
67) Ethyl Benzene	12.52	91	521621	24.858	ug/l	97
68) m/p-Xylenes	12.67	106	392272	47.629	ug/l	92
69) o-Xylene	13.05	106	188536	23.289	ug/l	94
70) Styrene	13.07	104	291337	22.039	ug/l	97
71) Bromoform	13.24	173	81553	25.162	ug/l	99
73) Isopropylbenzene	13.40	105	459228	19.554	ug/l	99
74) N-amyl acetate	13.27	43	139863	21.150	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	99470	21.709	ug/l	95
76) 1,2,3-Trichloropropane	13.73	75	107905	23.016	ug/l	99
77) Bromobenzene	13.67	156	144687	24.135	ug/l	95
78) n-propylbenzene	13.77	91	581640	21.155	ug/l	97
79) 2-Chlorotoluene	13.84	91	359235	23.733	ug/l	98
80) 1,3,5-Trimethylbenzene	14.24	105	430937	24.171	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	31977	23.135	ug/l	94
82) 4-Chlorotoluene	13.95	91	397454	22.211	ug/l	97
83) tert-Butylbenzene	14.19	119	441464	22.626	ug/l	97
84) 1,2,4-Trimethylbenzene	14.24	105	430937	24.171	ug/l	98
85) sec-Butylbenzene	14.37	105	586451	24.620	ug/l	99
86) p-Isopropyltoluene	14.49	119	438536	22.523	ug/l	99
87) 1,3-Dichlorobenzene	14.46	146	262084	24.483	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	262133	24.919	ug/l	98
89) n-Butylbenzene	14.80	91	418746	22.396	ug/l	95
90) Hexachloroethane	15.01	117	125924	22.904	ug/l	94
91) 1,2-Dichlorobenzene	14.81	146	215320	24.127	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	12753	23.097	ug/l	95

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ClientSampleId :
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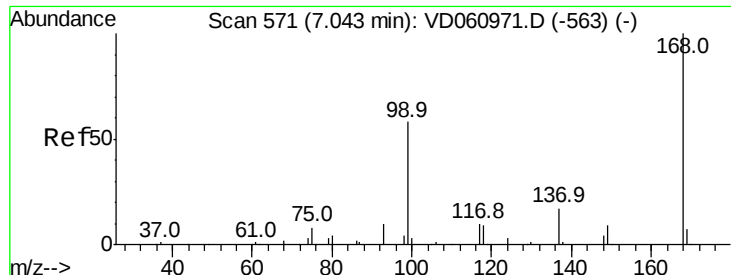
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	96860	23.396	µg/l	99
94) Hexachlorobutadiene	16.04	225	76800	24.526	µg/l	95
95) Naphthalene	16.12	128	159075	25.285	µg/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	48857	23.894	µg/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion:168 Resp: 515884

Ion Ratio Lower Upper

168 100

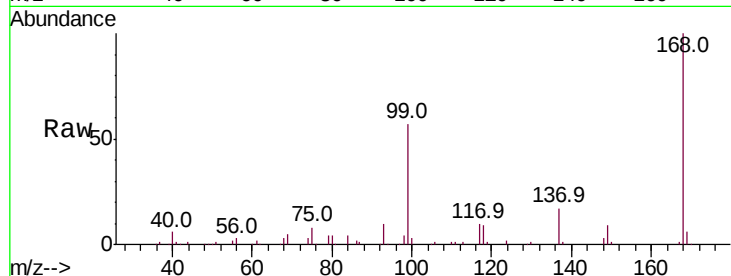
99 56.8 47.3 70.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

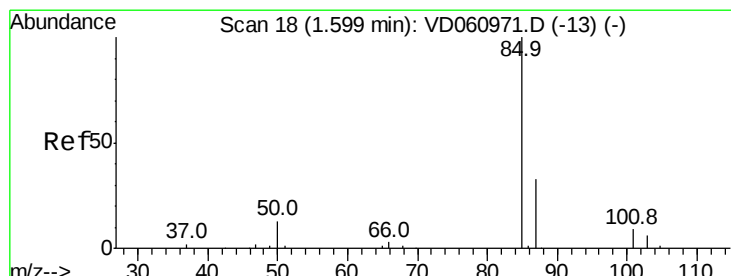
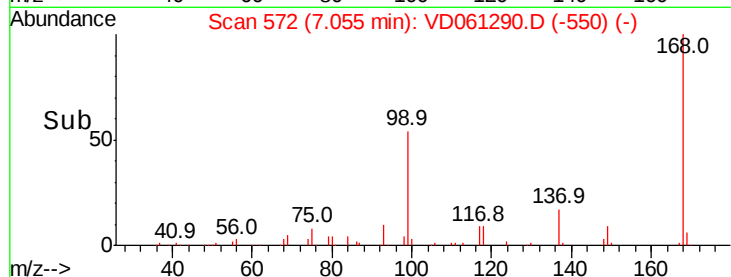
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100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.017 ug/l

RT: 1.58 min Scan# 16

Delta R.T. -0.02 min

Lab File: VD061290.D

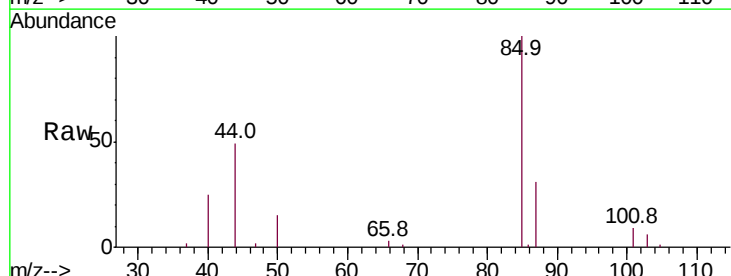
Acq: 23 Mar 2019 19:38

Tgt Ion: 85 Resp: 102288

Ion Ratio Lower Upper

85 100

87 31.1 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

50000

40000

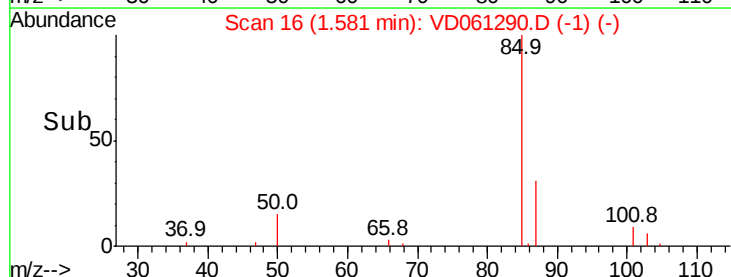
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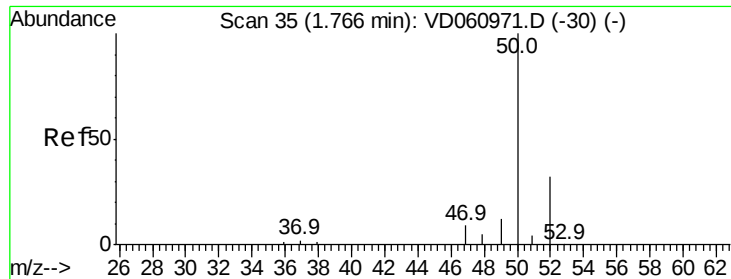
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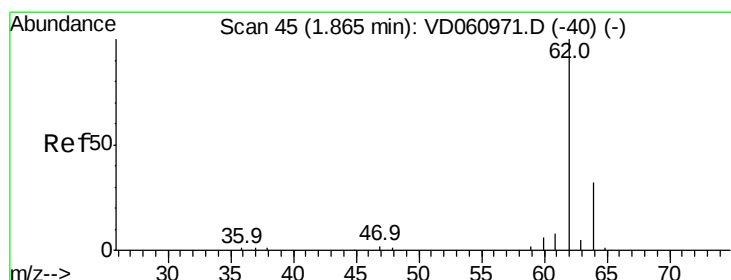
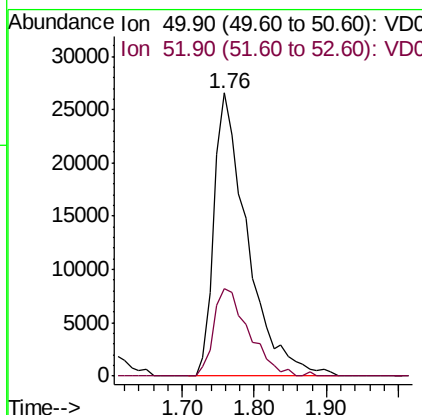
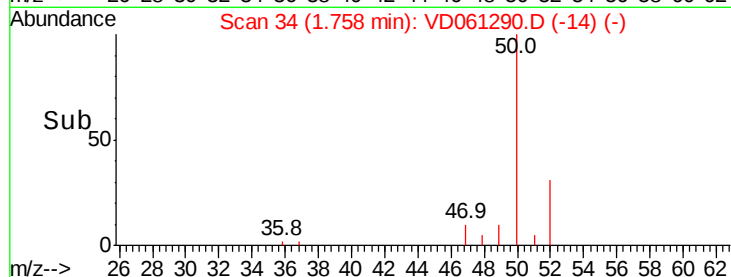
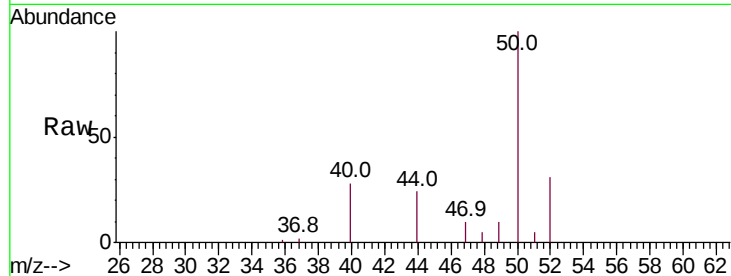
#3
Chloromethane
Concen: 20.005 ug/l
RT: 1.76 min Scan# 34
Delta R.T. -0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBSD01

Tot Ion: 50 Resp: 85161
Ion Ratio Lower Upper
50 100
52 30.8 25.8 38.8

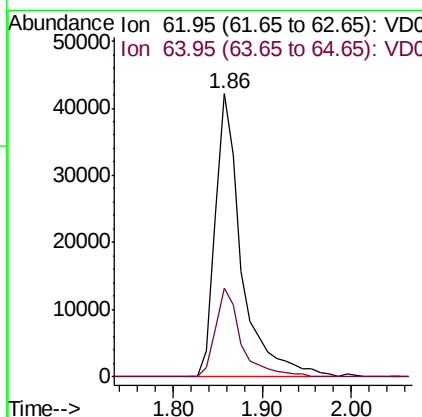
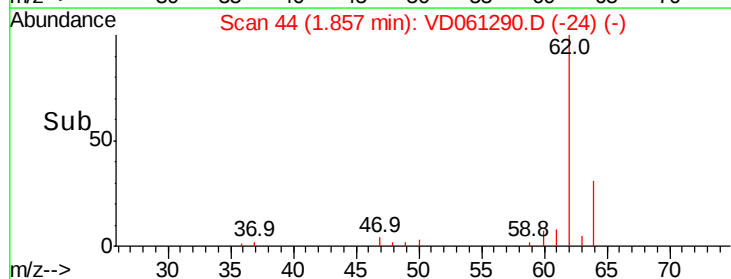
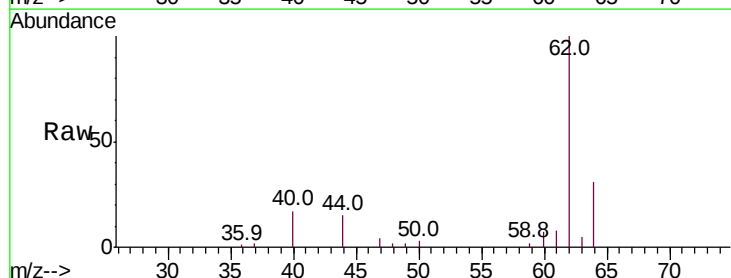
Manual Integrations
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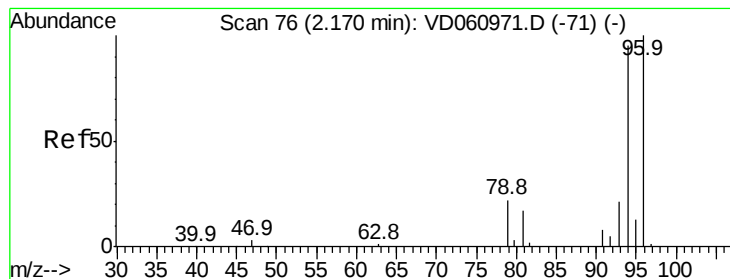
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#4
Vinyl Chloride
Concen: 22.065 ug/l
RT: 1.86 min Scan# 44
Delta R.T. -0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 62 Resp: 86793
Ion Ratio Lower Upper
62 100
64 31.4 25.2 37.8





#5

Bromomethane

Concen: 20.698 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.02 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

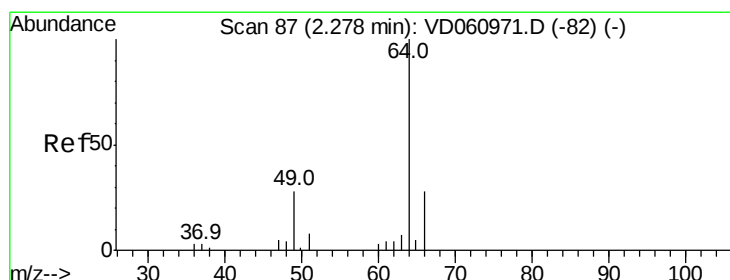
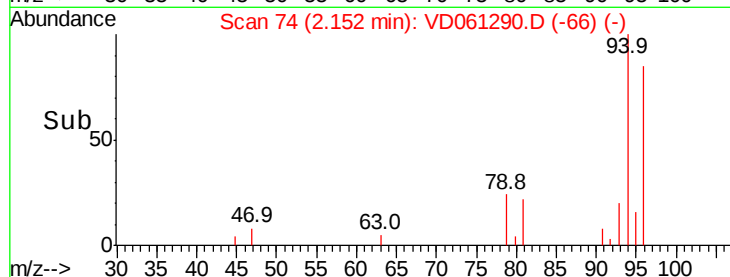
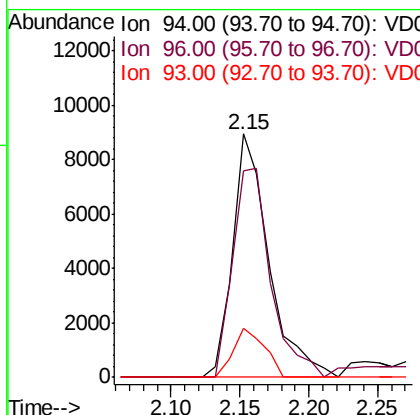
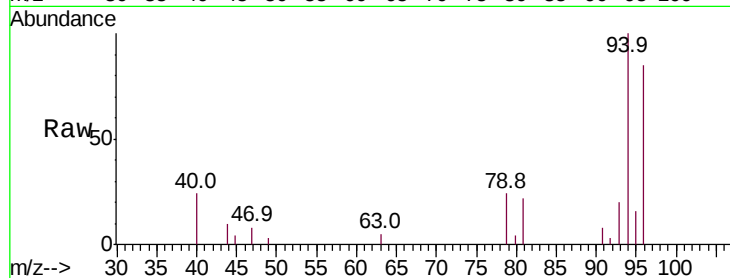
ClientSampleId :

VD0323SBS01

Tot Ion:	94	Resp:	16375
Ion	Ratio	Lower	Upper
94	100		
96	84.9	84.0	126.0
93	19.9	17.3	25.9

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#6

Chloroethane

Concen: 21.000 ug/l

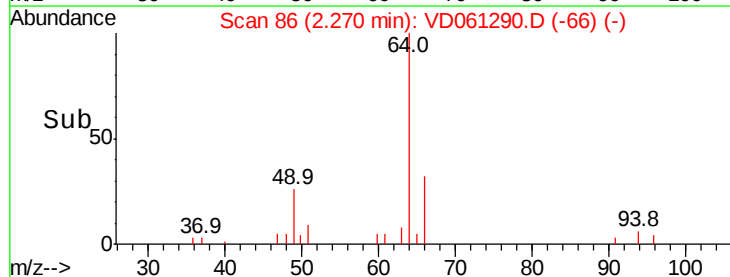
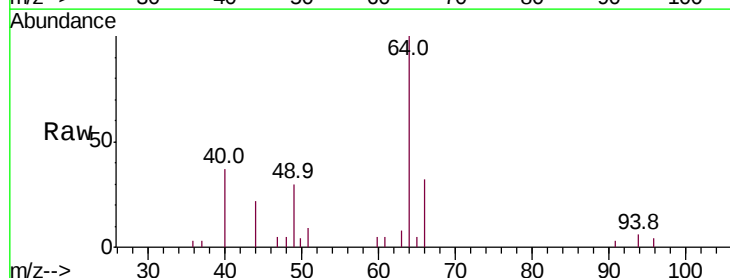
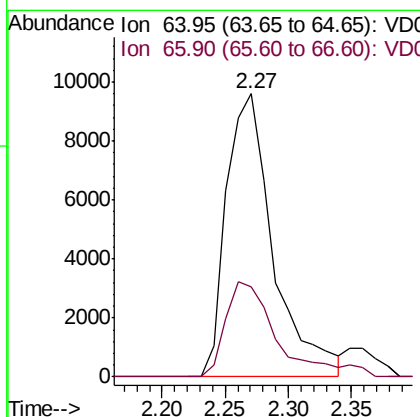
RT: 2.27 min Scan# 86

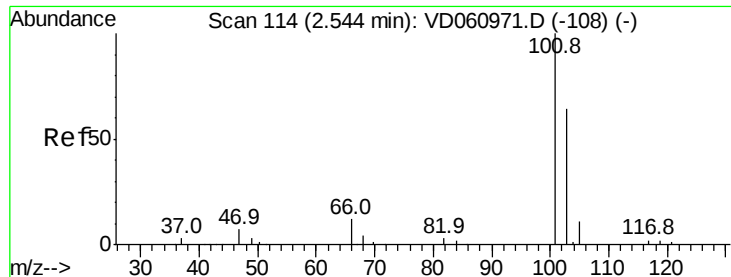
Delta R.T. -0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	64	Resp:	24725
Ion	Ratio	Lower	Upper
64	100		
66	31.9	22.2	33.2





#7

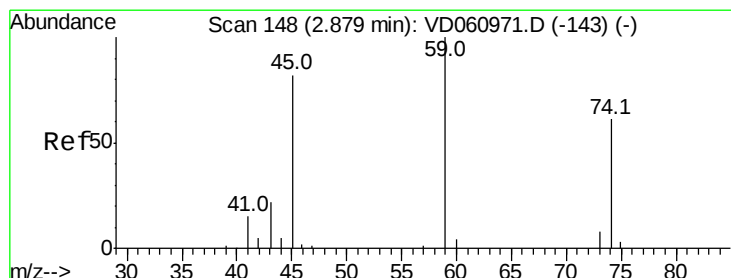
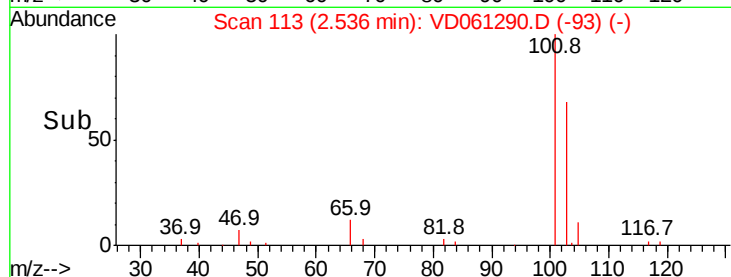
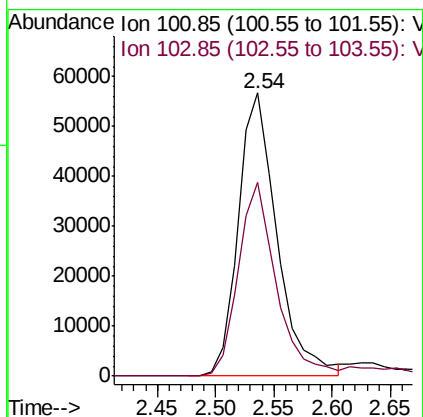
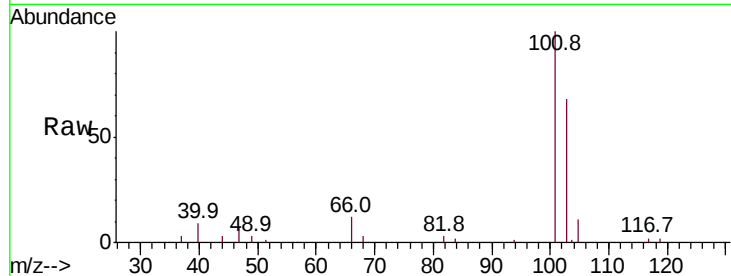
Trichlorofluoromethane
Concen: 23.105 ug/l
RT: 2.54 min Scan# 113
Delta R.T. -0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

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ClientSampleId :
VD0323SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.3	51.2	76.8

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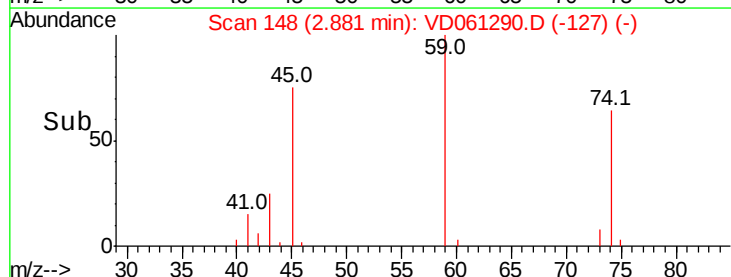
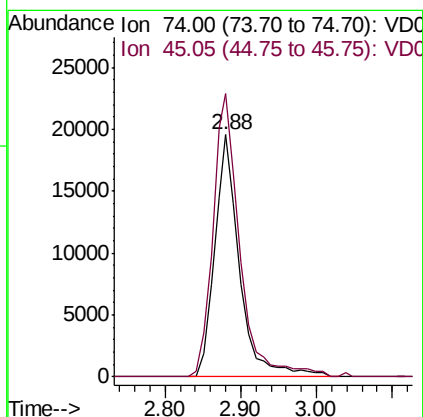
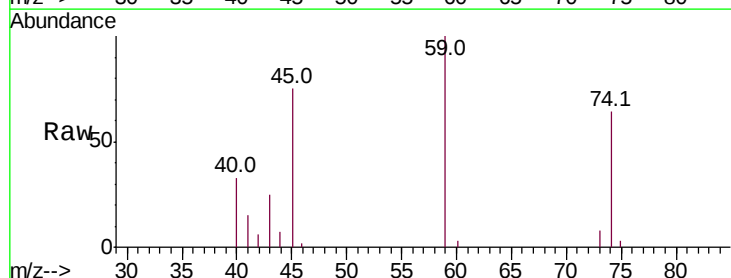
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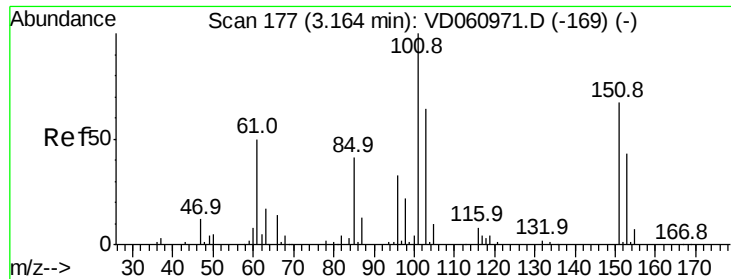


#8

Diethyl Ether
Concen: 23.936 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
74	100		
45	116.8	67.0	201.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.876 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

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MSVOA_D

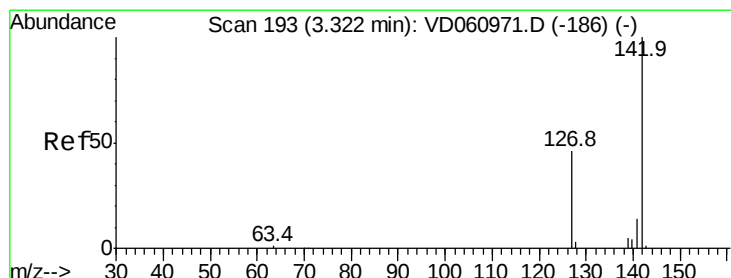
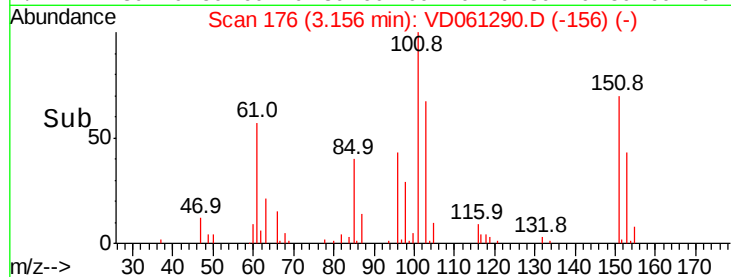
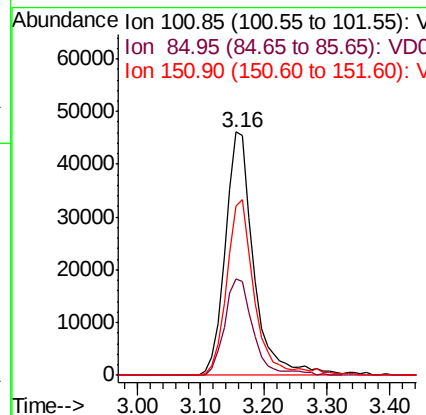
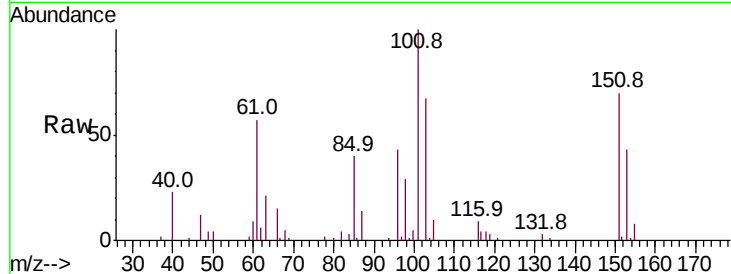
ClientSampleId :

VD0323SBS01

Tot Ion:	101	Resp:	144518
Ion Ratio	Lower	Upper	
101	100		
85	39.5	32.5	48.7
151	69.7	53.3	79.9

Manual Integrations
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#10

Methyl Iodide

Concen: 19.587 ug/l

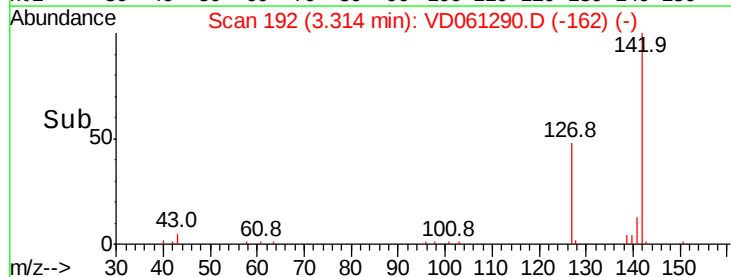
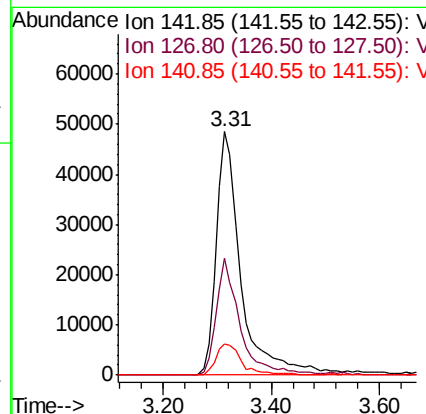
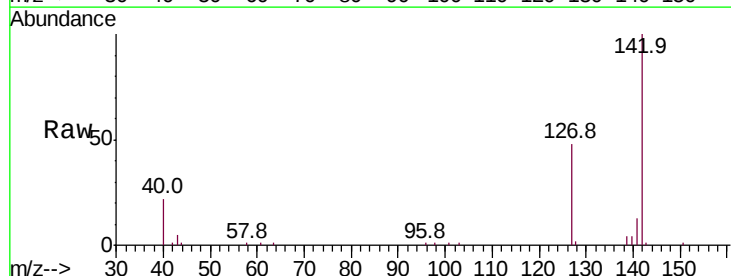
RT: 3.31 min Scan# 192

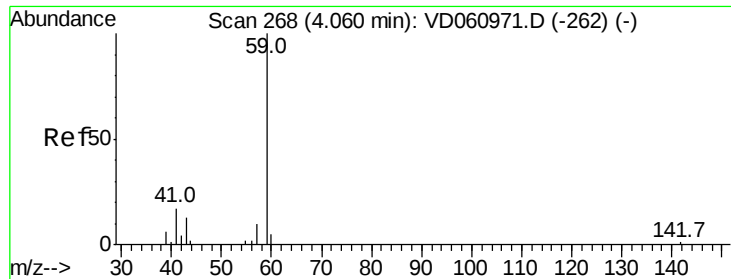
Delta R.T. -0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	142	Resp:	153920
Ion Ratio	Lower	Upper	
142	100		
127	48.1	36.8	55.2
141	13.0	11.2	16.8





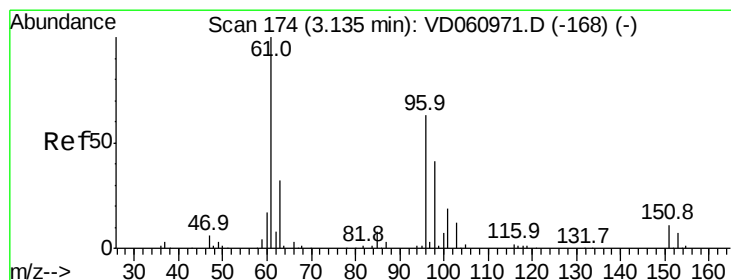
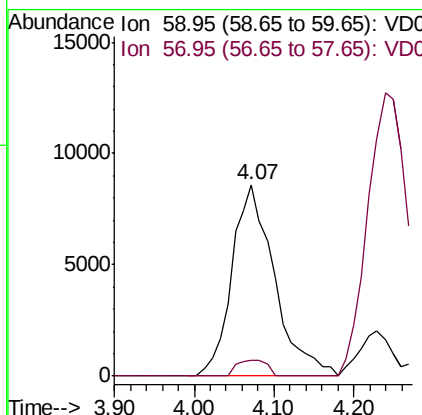
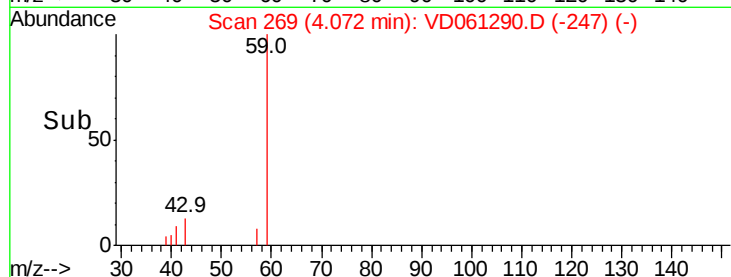
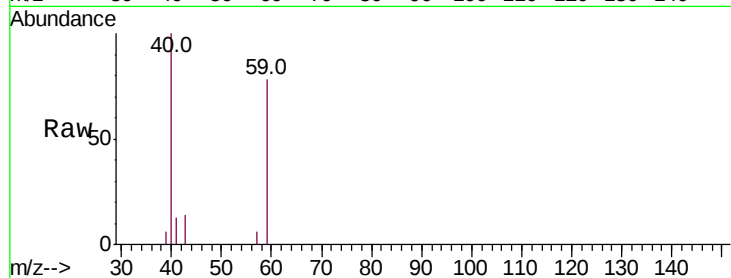
#11
Tert butyl alcohol
Concen: 116.343 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion: 59 Resp: 31805
Ion Ratio Lower Upper
59 100
57 8.3 7.1 10.7

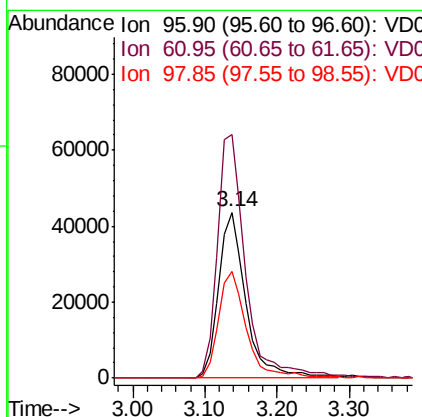
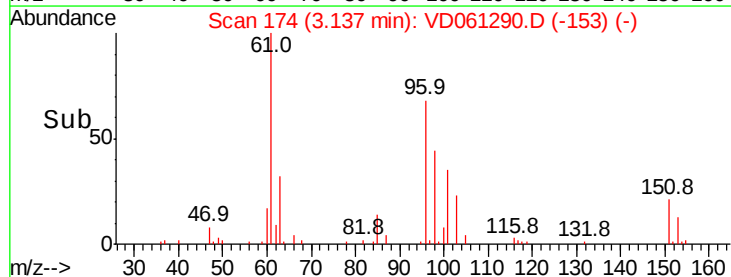
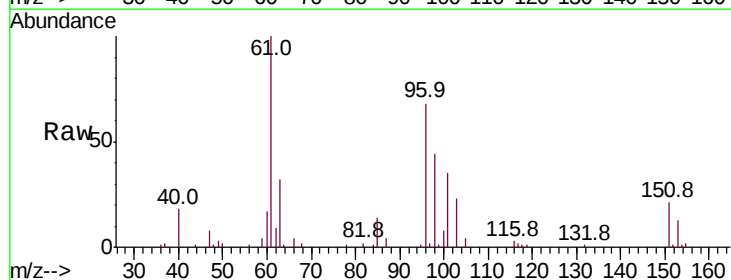
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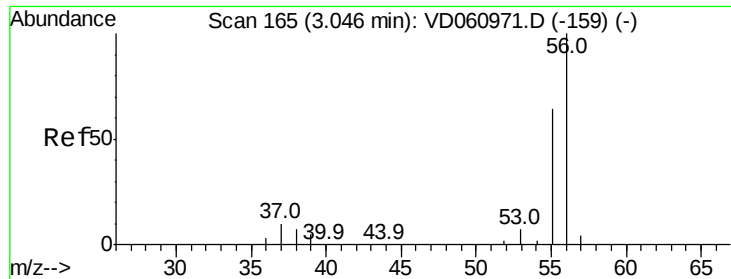
MMDadoda
3/26/2019 2:40:27 PM



#12
1,1-Dichloroethene
Concen: 22.043 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 96 Resp: 114149
Ion Ratio Lower Upper
96 100
61 147.0 127.1 190.7
98 64.3 51.5 77.3





#13

Acrolein

Concen: 62.031 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 56 Resp: 24536

Ion Ratio Lower Upper

56 100

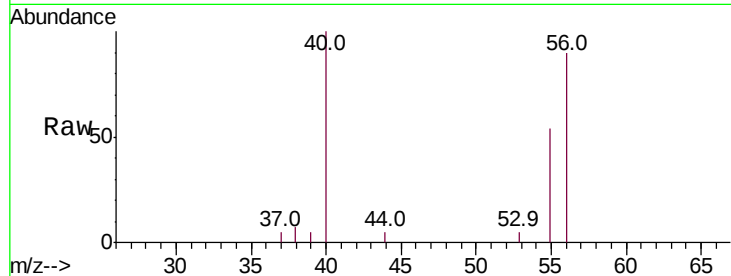
55 59.5 51.3 76.9

Manual Integrations

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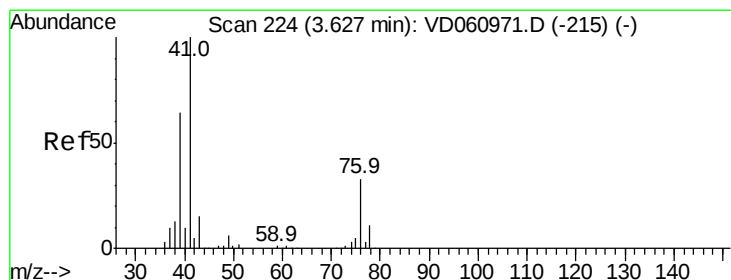
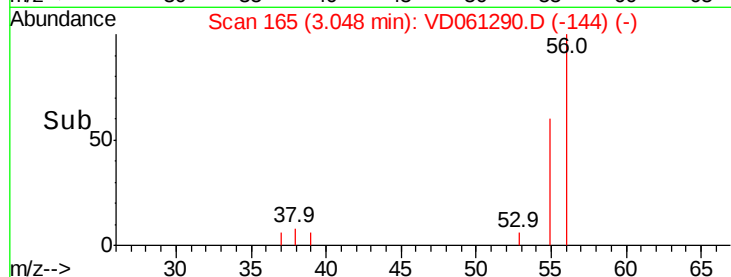
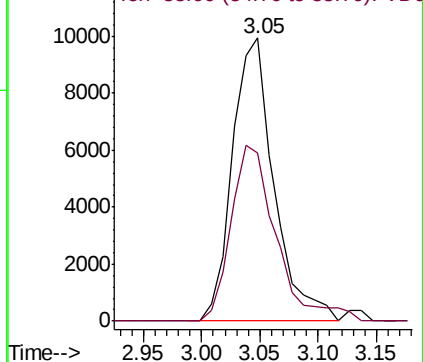
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.589 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

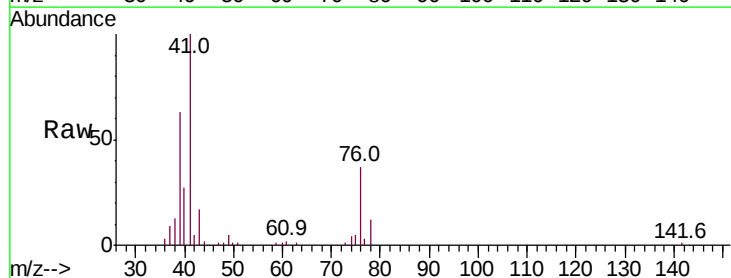
Tgt Ion: 41 Resp: 162302

Ion Ratio Lower Upper

41 100

39 62.9 51.1 76.7

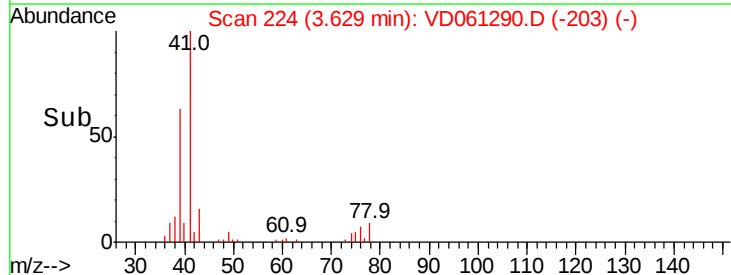
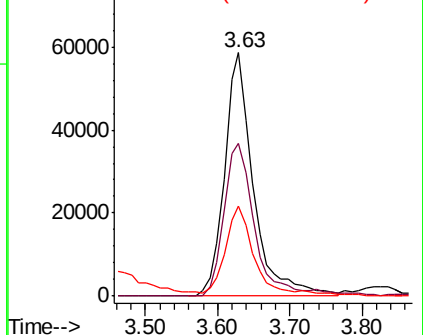
76 37.2 29.1 43.7

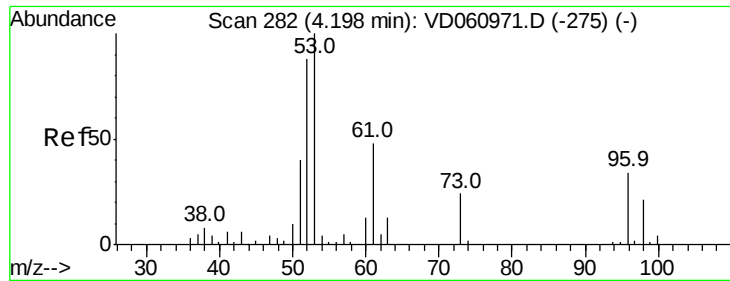


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 125.566 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

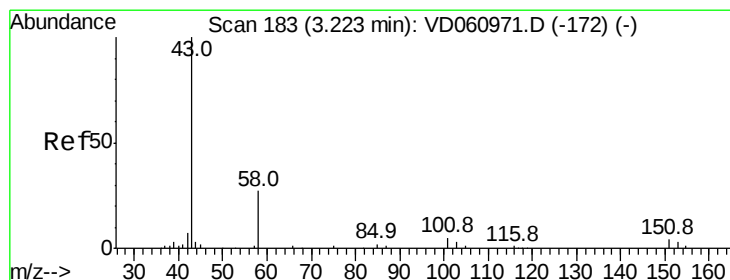
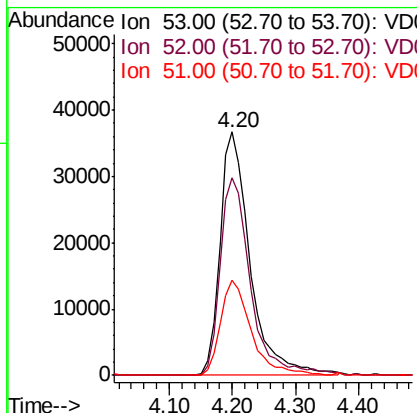
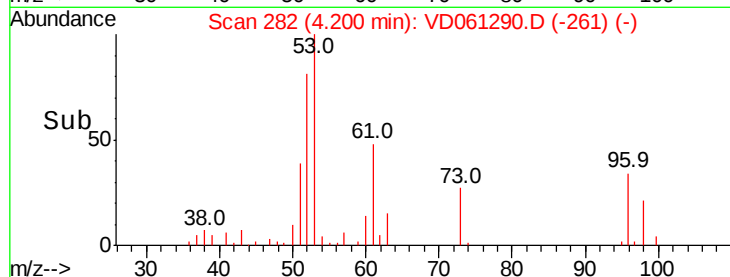
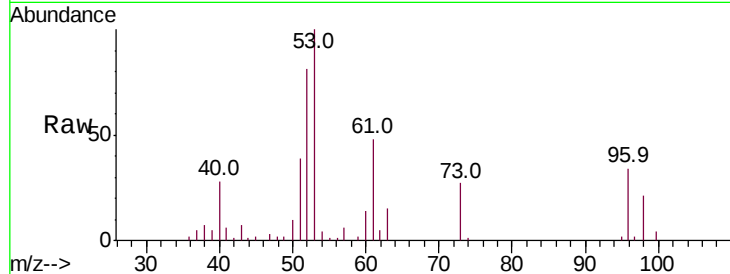
ClientSampleId :

VD0323SBS01

Tot Ion:	53	Resp:	121320
Ion Ratio	Lower	Upper	
53	100		
52	81.1	70.2	105.4
51	39.2	31.7	47.5

Manual Integrations
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#16

Acetone

Concen: 114.294 ug/l

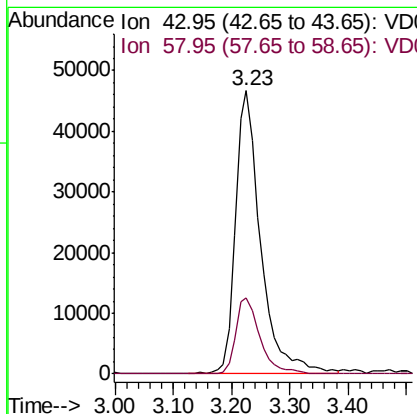
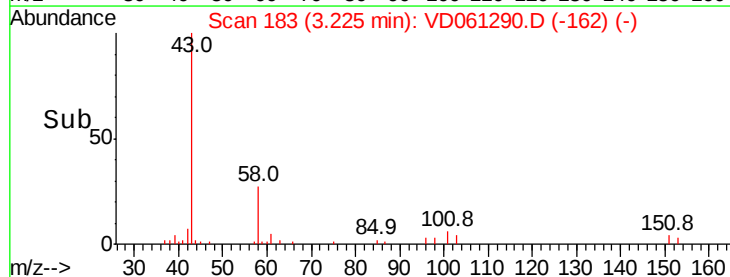
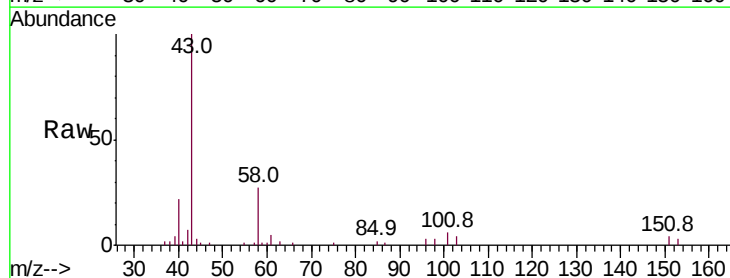
RT: 3.23 min Scan# 183

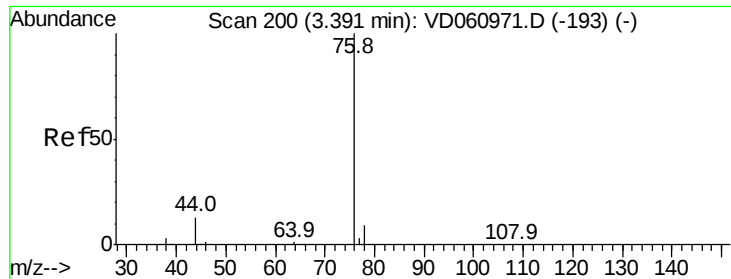
Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	43	Resp:	140347
Ion Ratio	Lower	Upper	
43	100		
58	26.8	21.6	32.4





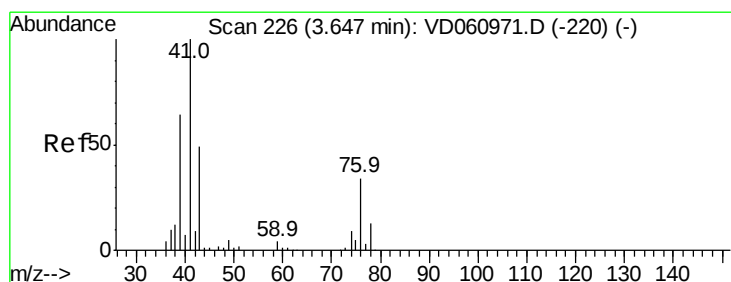
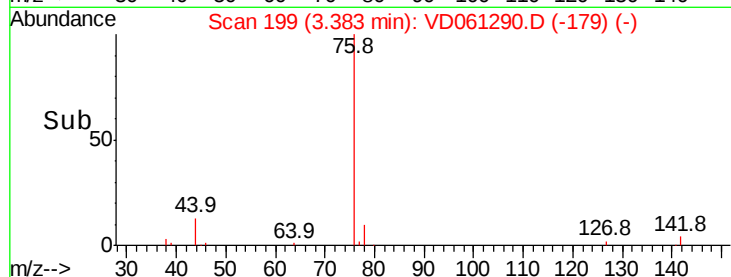
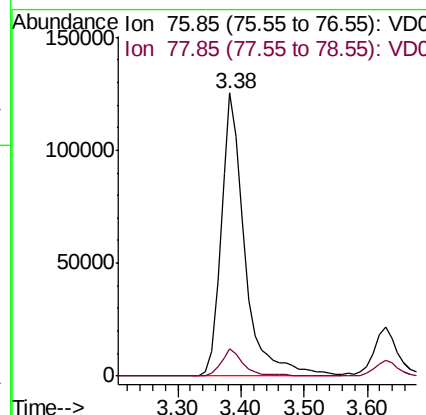
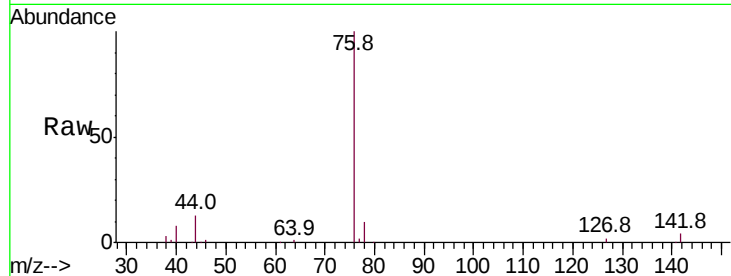
#17
Carbon Disulfide
Concen: 18.838 ug/l
RT: 3.38 min Scan# 199
Delta R.T. -0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.4	11.2

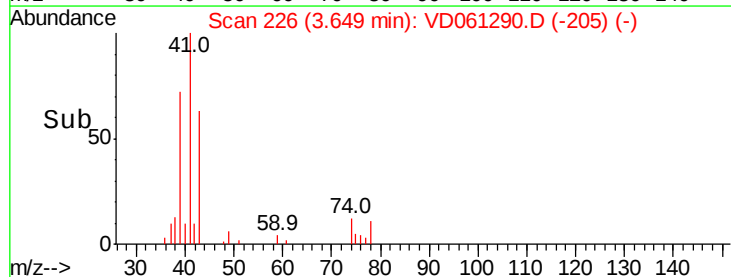
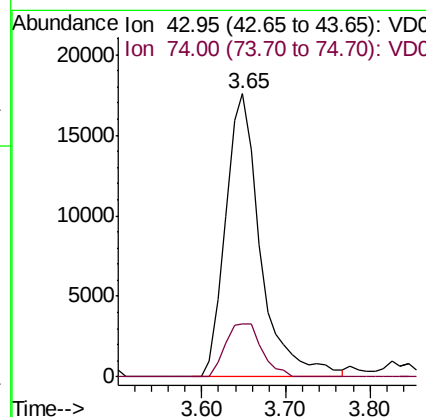
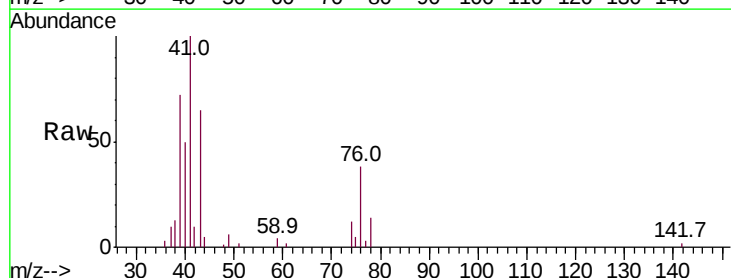
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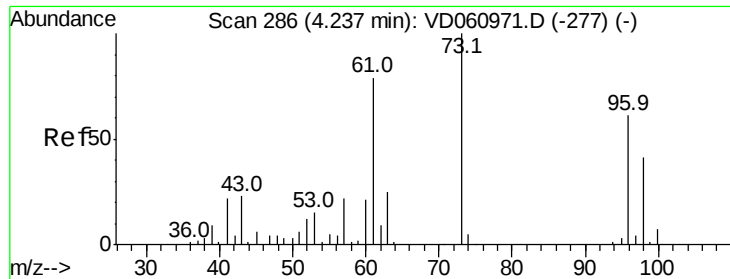
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#18
Methyl Acetate
Concen: 20.999 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.7	14.6	21.8





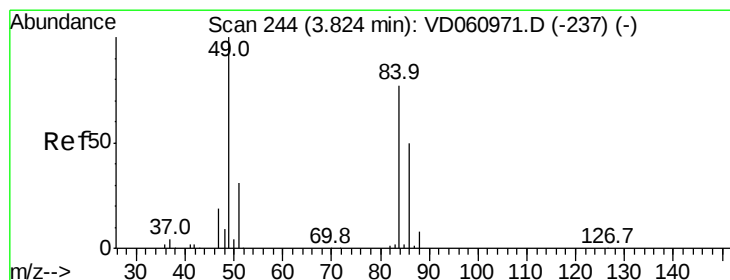
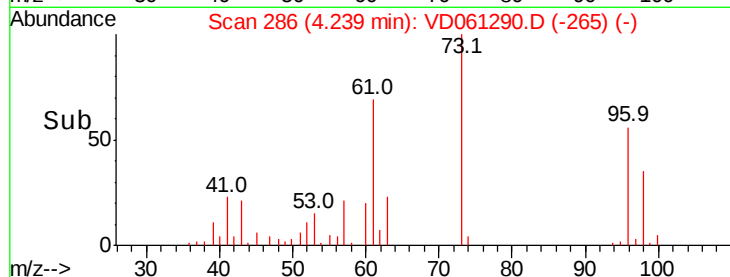
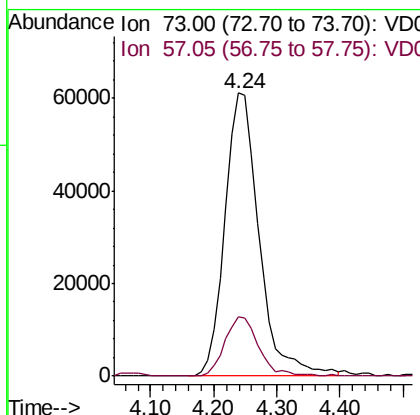
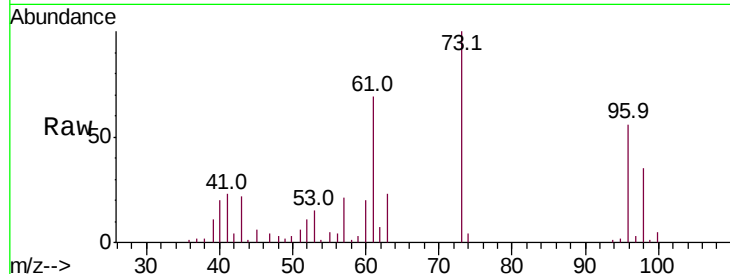
#19
Methyl tert-butyl Ether
Concen: 25.349 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion: 73 Resp: 230046
Ion Ratio Lower Upper
73 100
57 20.8 17.7 26.5

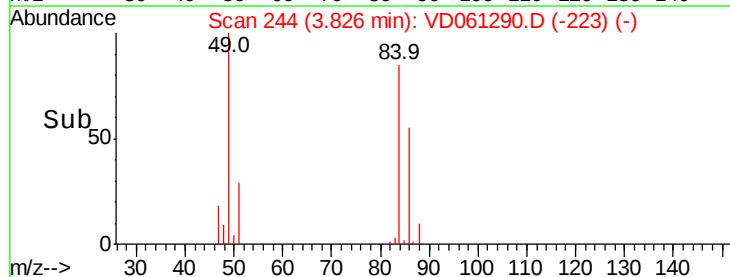
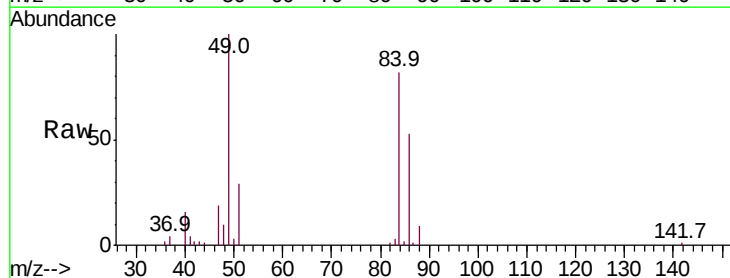
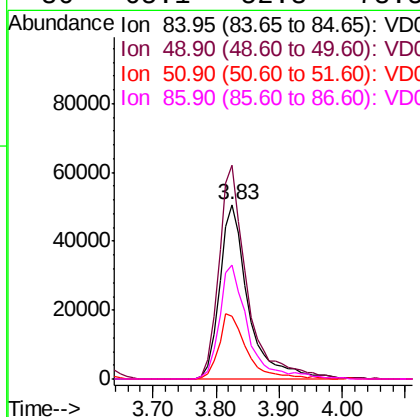
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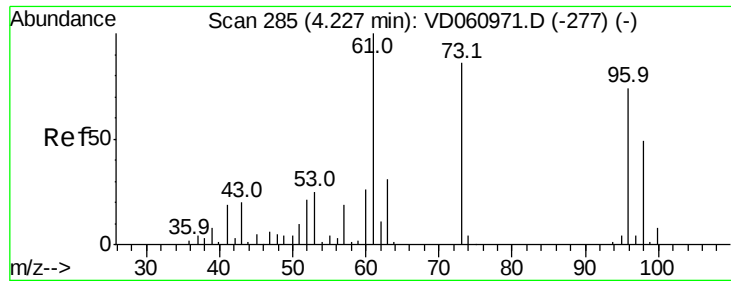
MMDadoda
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#20
Methylene Chloride
Concen: 26.389 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 84 Resp: 160082
Ion Ratio Lower Upper
84 100
49 122.7 104.2 156.2
51 36.1 32.3 48.5
86 65.1 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 22.961 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 96 Resp: 128694

Ion Ratio Lower Upper

96 100

61 127.9 108.4 162.6

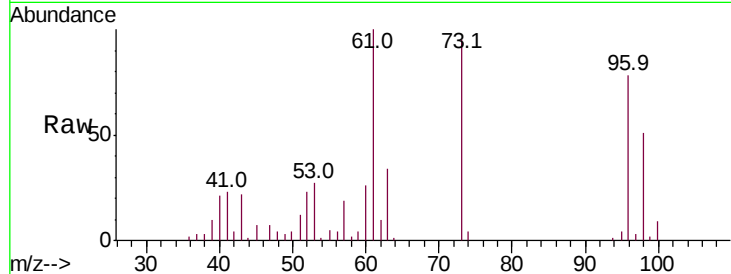
98 65.3 53.0 79.4

Manual Integrations

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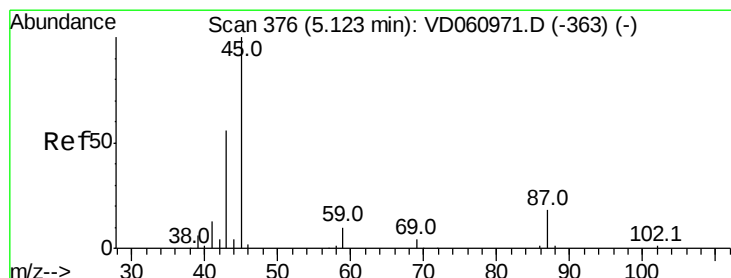
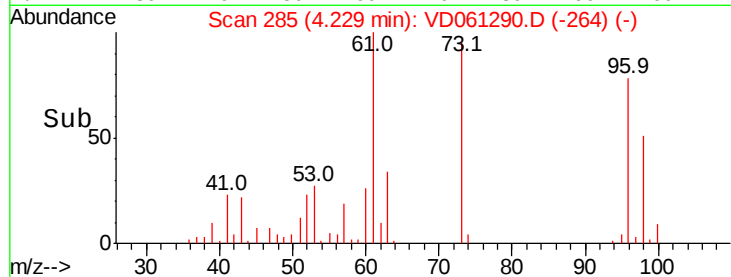
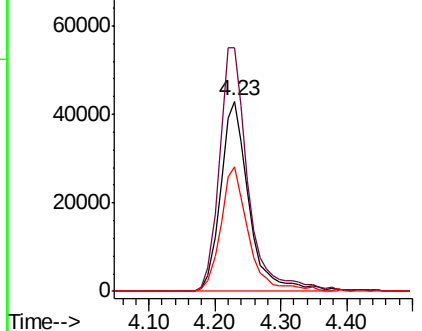
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Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 21.801 ug/l

RT: 5.13 min Scan# 376

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion: 45 Resp: 374964

Ion Ratio Lower Upper

45 100

43 58.2 45.8 68.8

87 19.5 14.9 22.3

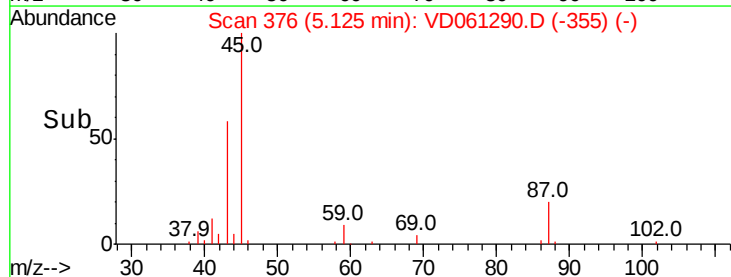
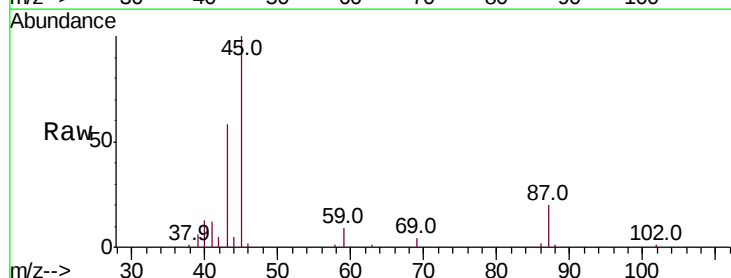
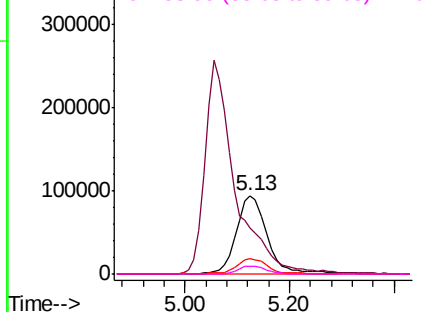
59 9.5 8.0 12.0

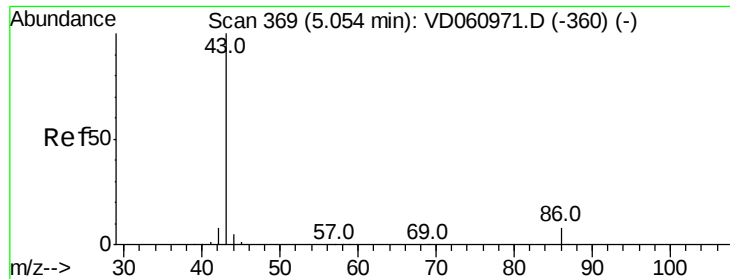
Abundance Ion 45.05 (44.75 to 45.75): VDC

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





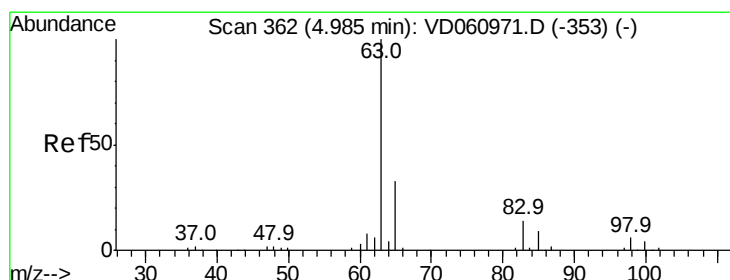
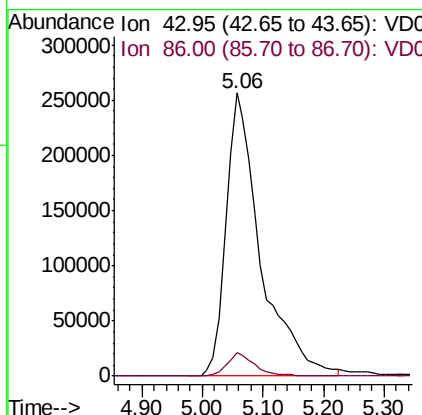
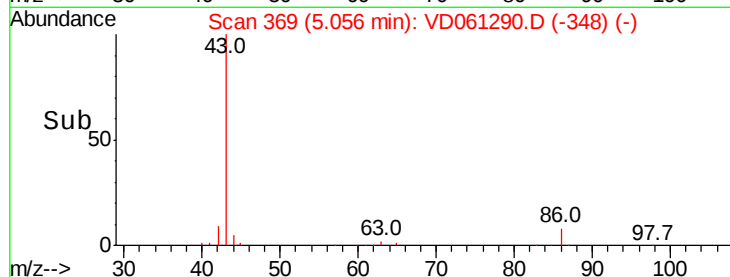
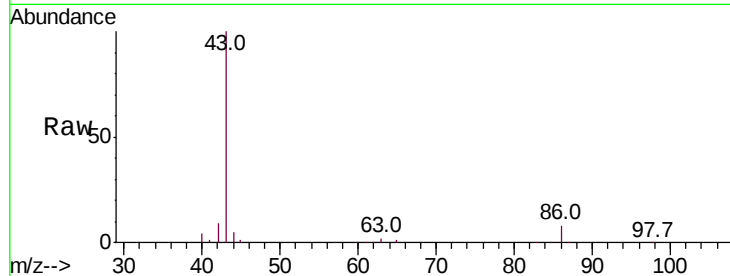
#23
 Vinyl Acetate
 Concen: 115.007 ug/l
 RT: 5.06 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBS01

Tot Ion: 43 Resp: 1015444
 Ion Ratio Lower Upper
 43 100
 86 8.2 6.2 9.2

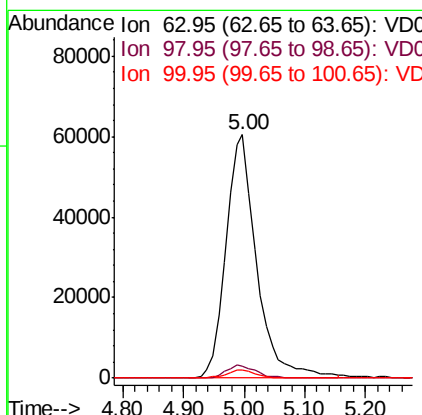
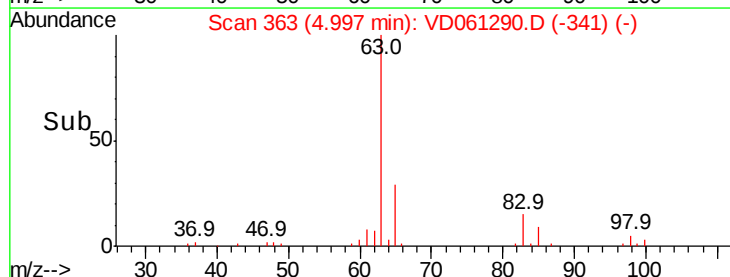
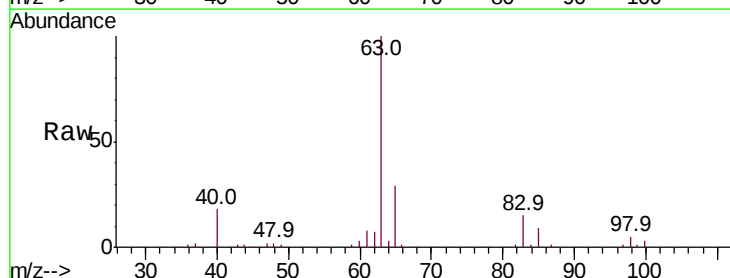
Manual Integrations
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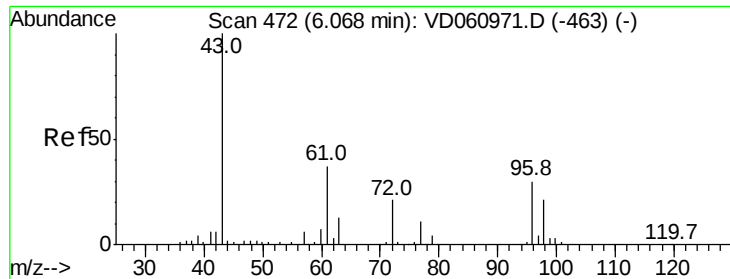
MMDadoda
 3/26/2019 2:40:27 PM



#24
 1,1-Dichloroethane
 Concen: 22.550 ug/l
 RT: 5.00 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion: 63 Resp: 212507
 Ion Ratio Lower Upper
 63 100
 98 4.7 3.0 9.2
 100 3.5 2.0 5.8





#25

2-Butanone

Concen: 121.414 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 43 Resp: 169176

Ion Ratio Lower Upper

43 100

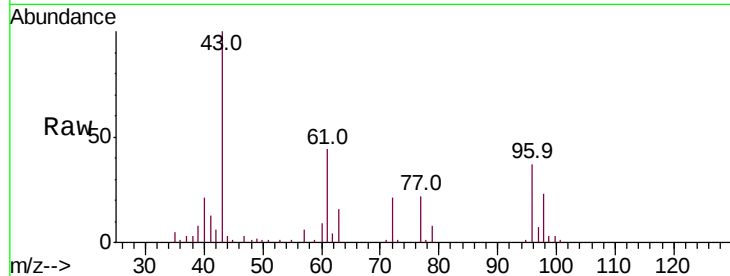
72 20.6 16.7 25.1

Manual Integrations

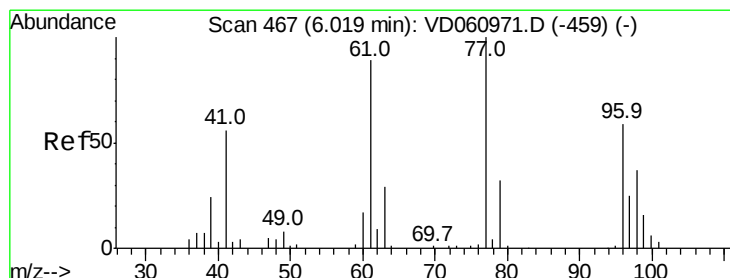
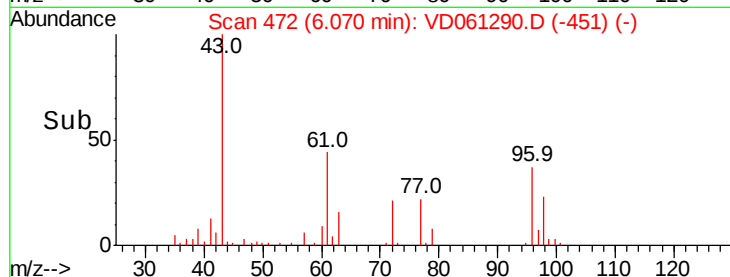
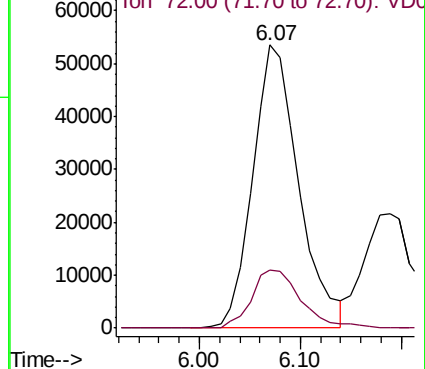
APPROVED

MMDadoda

3/26/2019 2:40:27 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC



#26

2,2-Dichloropropane

Concen: 22.786 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD061290.D

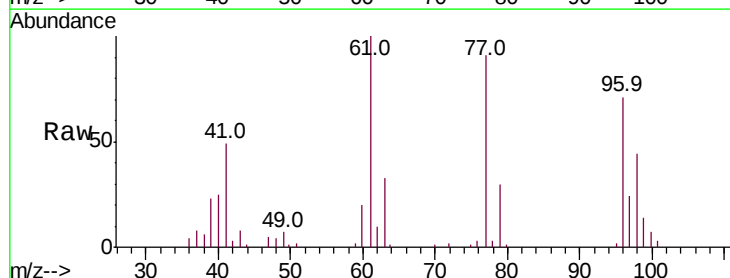
Acq: 23 Mar 2019 19:38

Tgt Ion: 77 Resp: 167632

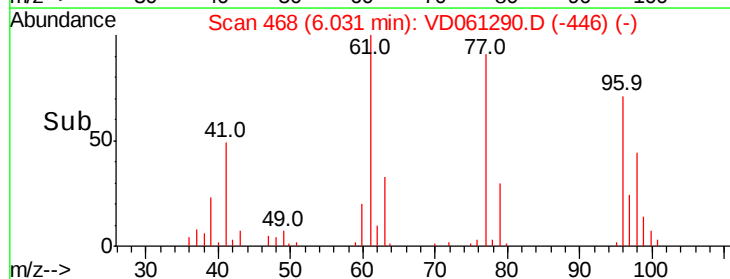
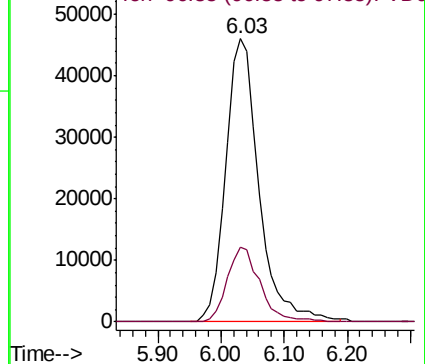
Ion Ratio Lower Upper

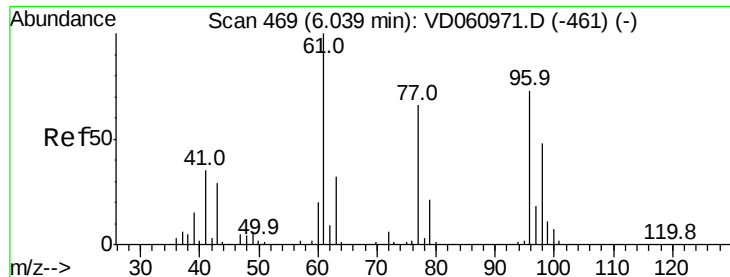
77 100

97 26.5 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC





#27

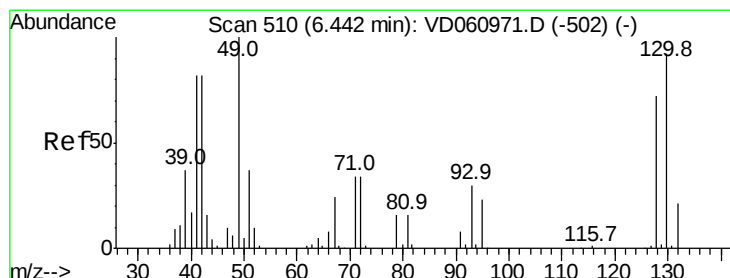
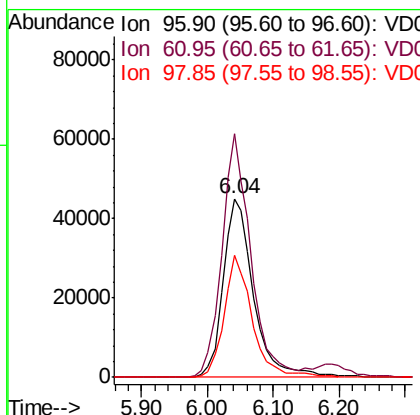
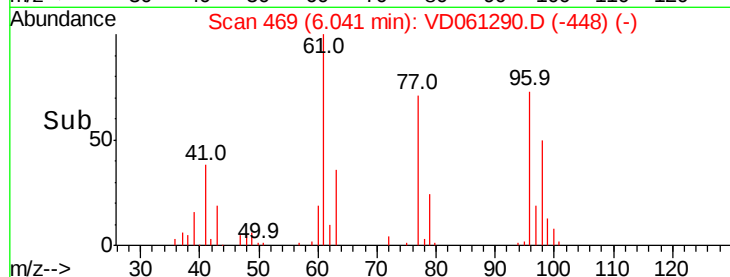
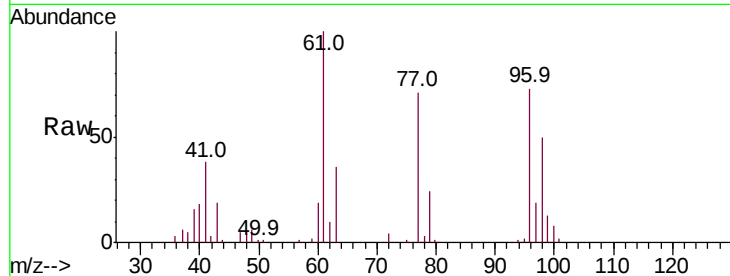
cis-1,2-Dichloroethene
Concen: 24.244 ug/l
RT: 6.04 min Scan# 469
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	273.6
98	68.2	0.0	132.6

Manual Integrations
APPROVED

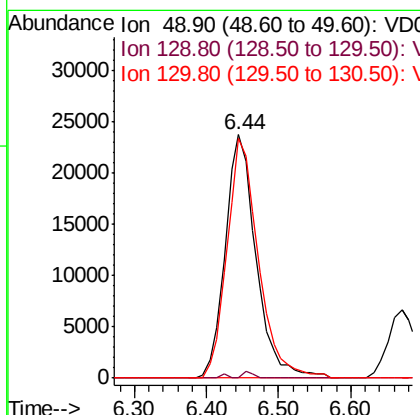
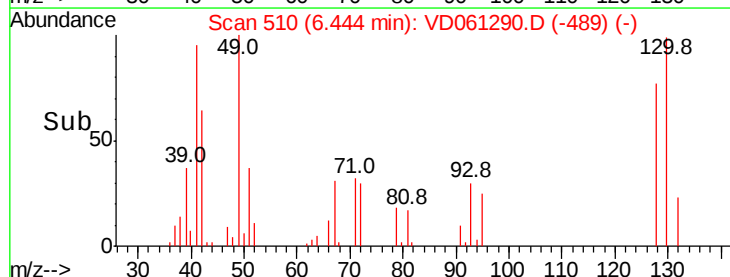
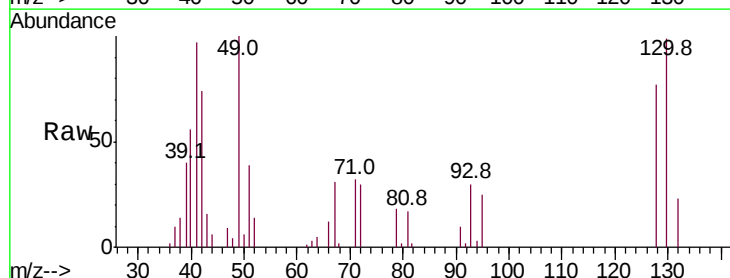
MMDadoda
3/26/2019 2:40:27 PM

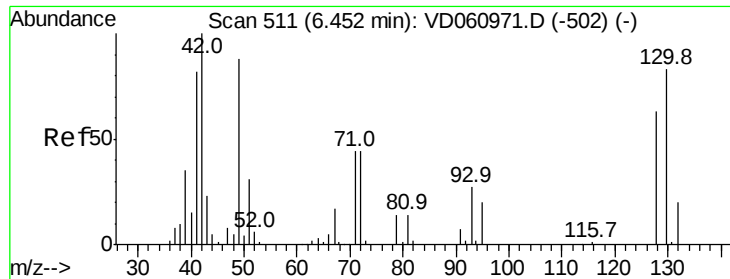


#28

Bromochloromethane
Concen: 17.656 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	98.7	73.8	110.8





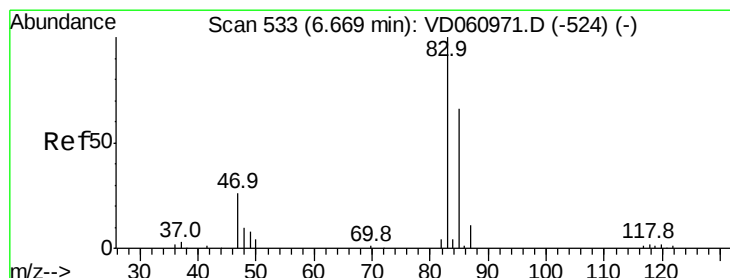
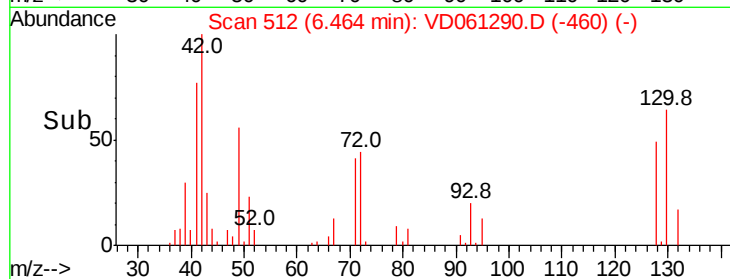
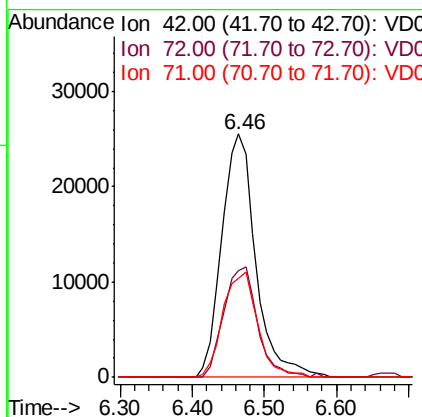
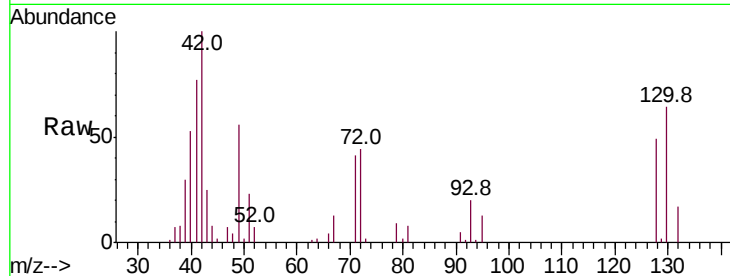
#29
Tetrahydrofuran
Concen: 110.656 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.9	34.5	51.7
71	44.2	33.8	50.6

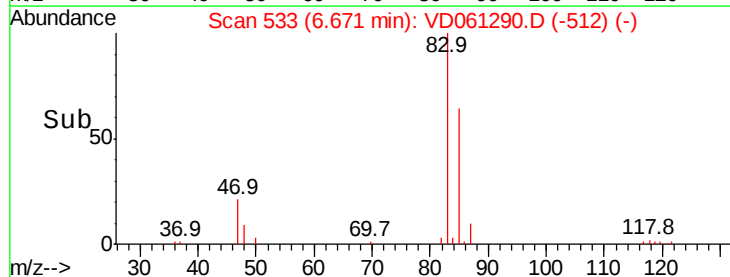
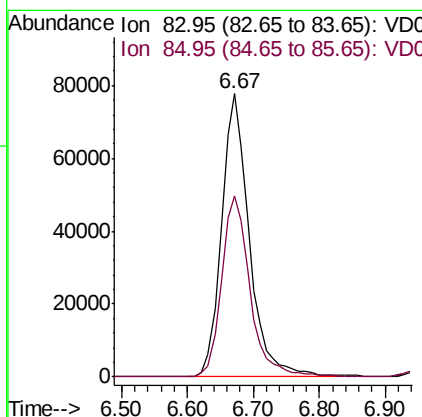
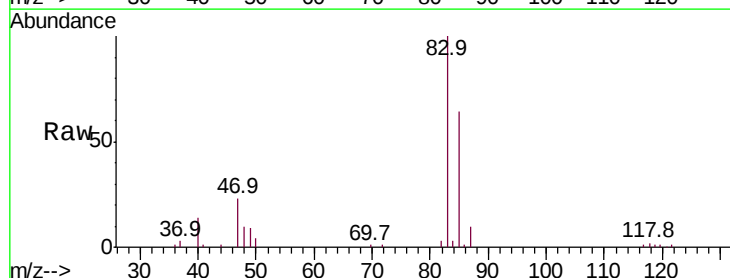
Manual Integrations
APPROVED

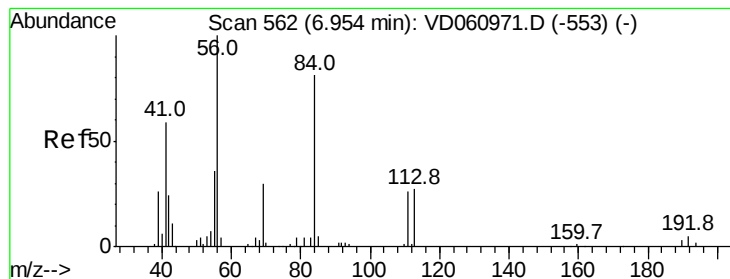
MMDadoda
3/26/2019 2:40:27 PM



#30
Chloroform
Concen: 23.351 ug/l
RT: 6.67 min Scan# 533
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.0	79.4





#31

Cyclohexane

Concen: 21.331 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

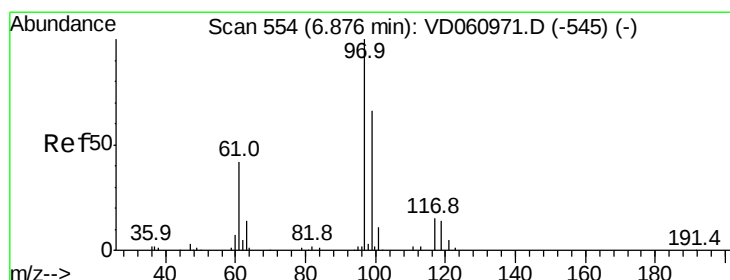
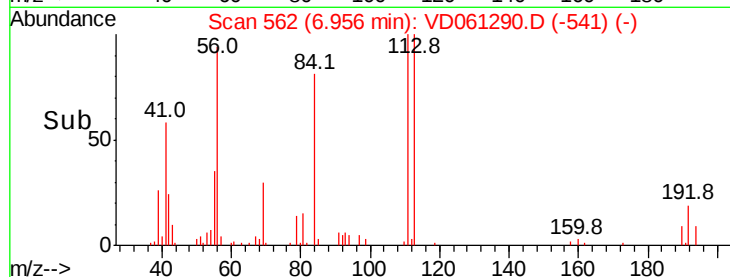
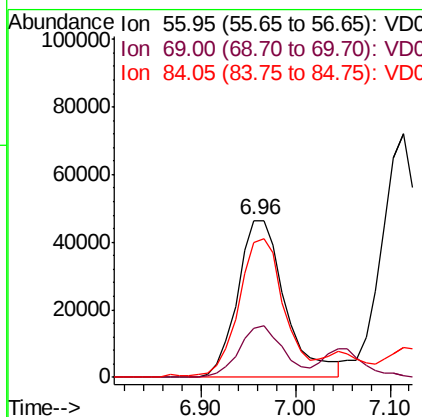
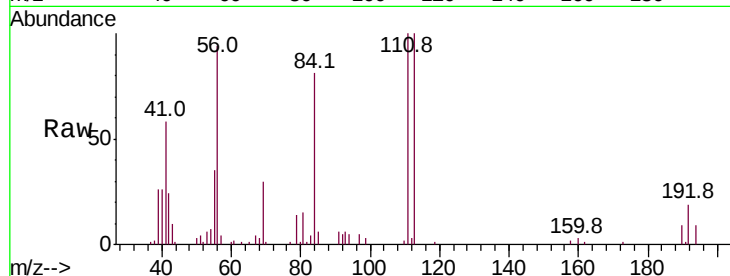
ClientSampleId :

VD0323SBS01

Tot Ion:	56	Resp:	162086
Ion	Ratio	Lower	Upper
56	100		
69	31.4	24.0	36.0
84	86.1	65.8	98.6

Manual Integrations
APPROVED

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3/26/2019 2:40:27 PM



#32

1,1,1-Trichloroethane

Concen: 23.089 ug/l

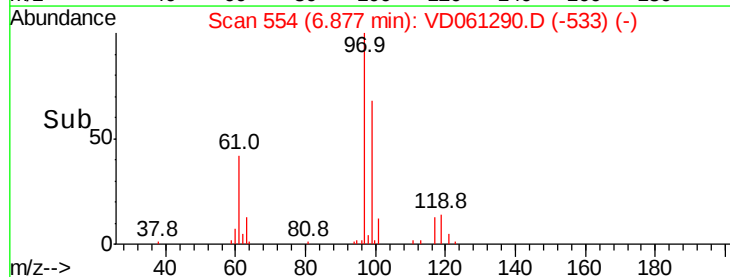
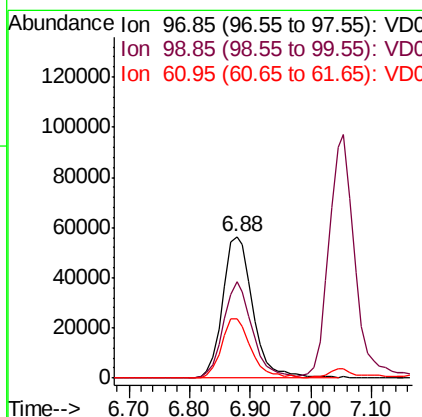
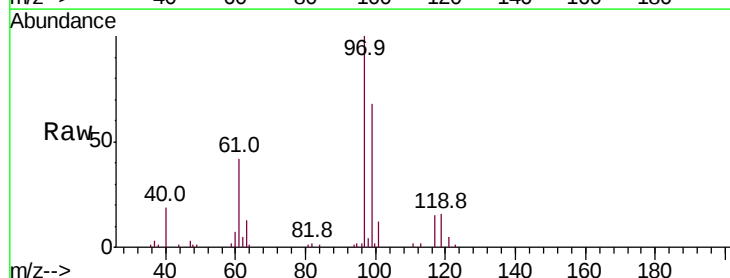
RT: 6.88 min Scan# 554

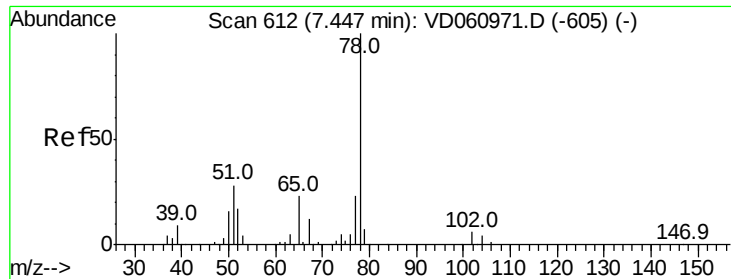
Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	97	Resp:	194964
Ion	Ratio	Lower	Upper
97	100		
99	68.3	53.2	79.8
61	42.1	33.8	50.8





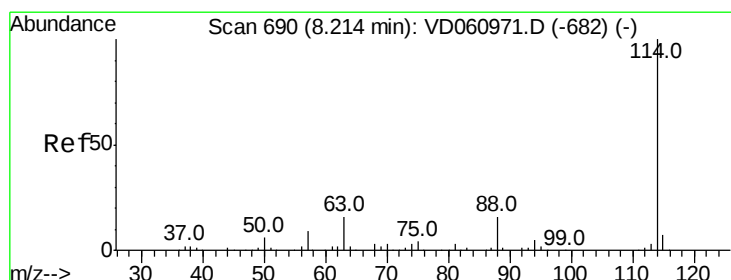
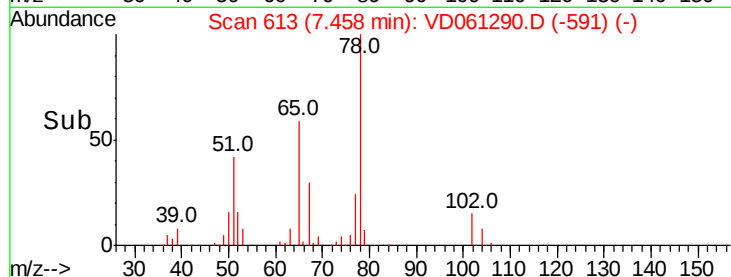
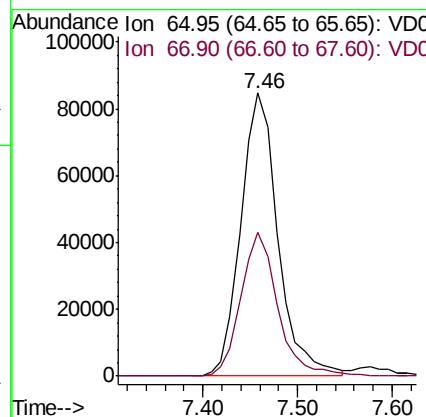
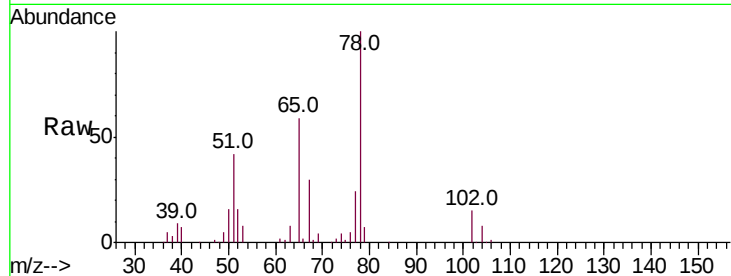
#33
 1,2-Dichloroethane-d4
 Concen: 23.089 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBS01

Tot Ion: 65 Resp: 229974
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 105.2

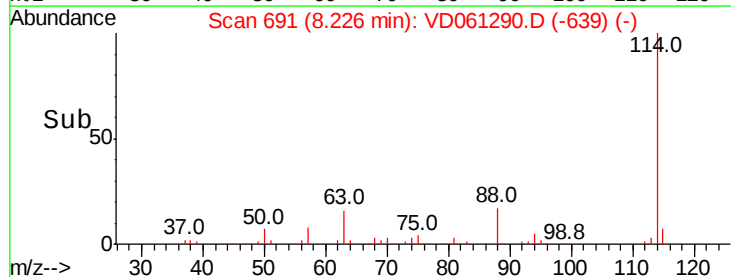
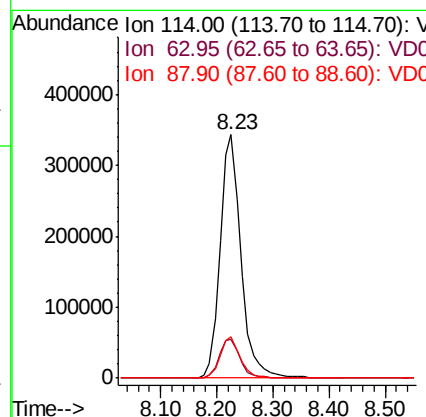
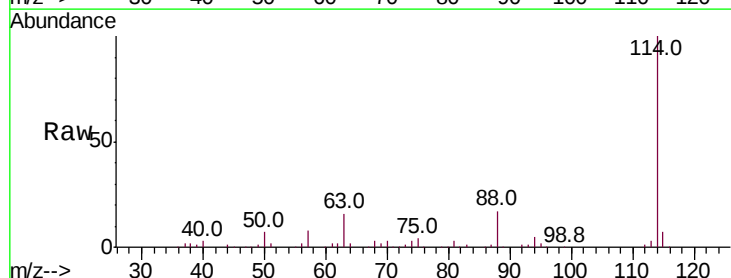
Manual Integrations
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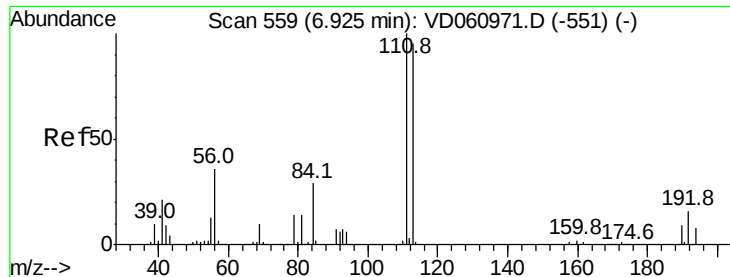
MMDadoda
 3/26/2019 2:40:27 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion: 114 Resp: 895836
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.4
 88 16.8 0.0 33.0





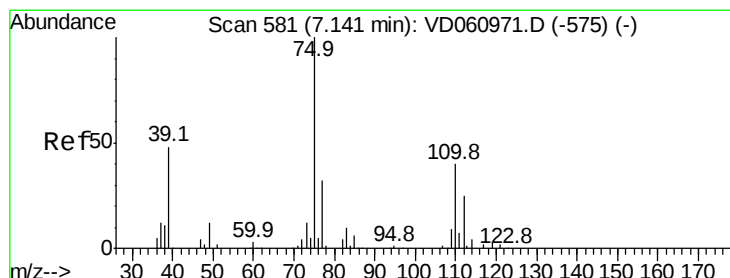
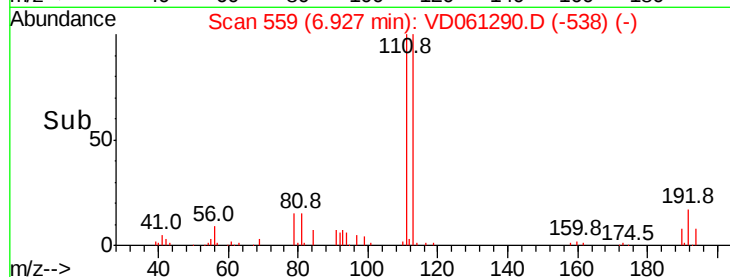
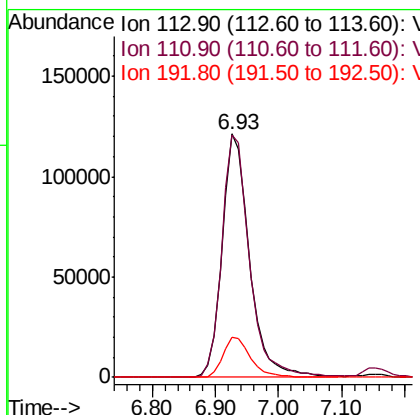
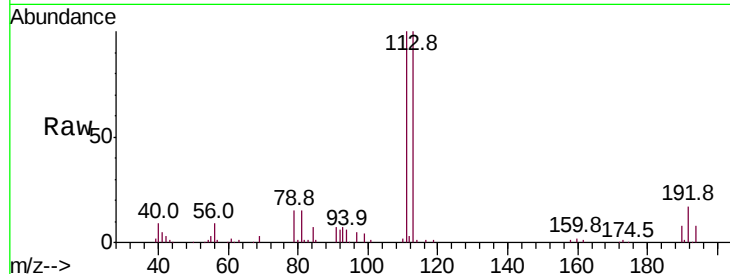
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	366865		
111	99.6	84.2	126.4	
192	16.6	13.1	19.7	

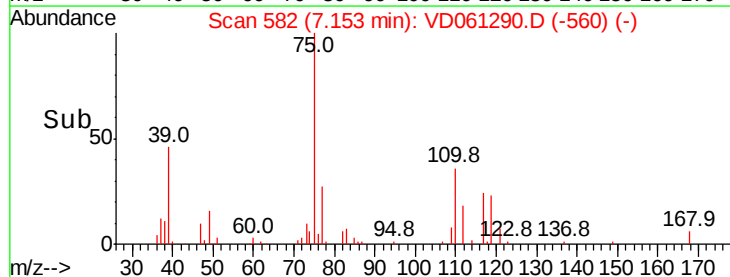
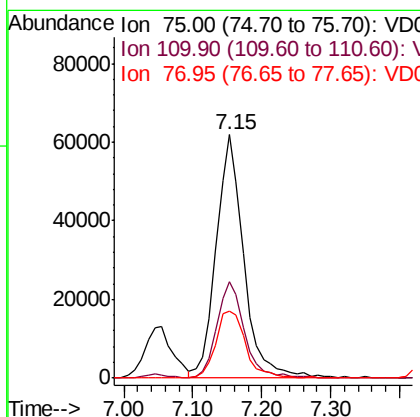
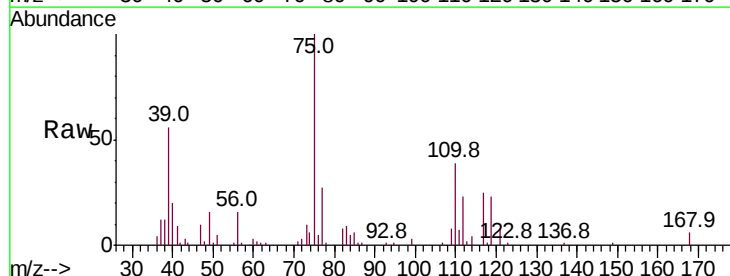
Manual Integrations
 APPROVED

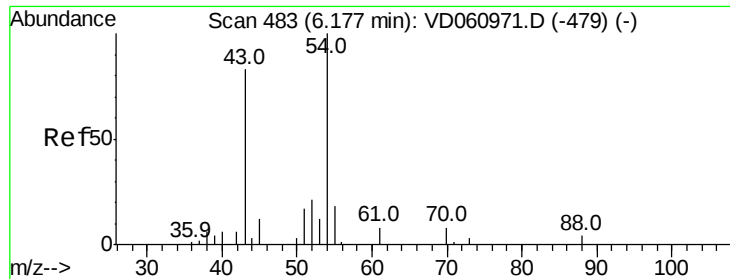
MMDadoda
 3/26/2019 2:40:27 PM



#36
 1,1-Dichloropropene
 Concen: 22.245 ug/l
 RT: 7.15 min Scan# 582
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	171778		
110	39.5	19.7	59.1	
77	27.5	24.7	37.1	





#37

Ethyl Acetate

Concen: 21.779 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

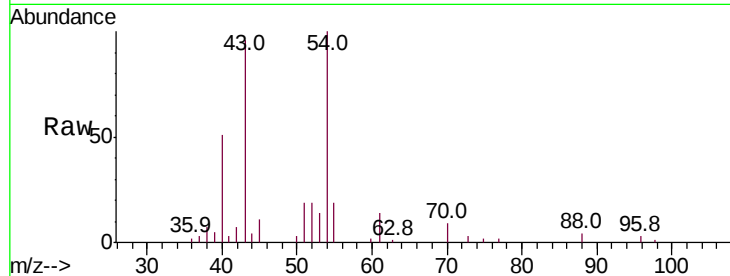
ClientSampleID :

VD0323SBS01

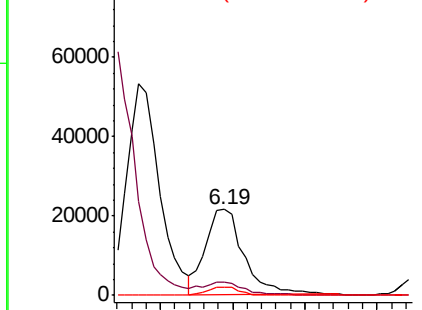
Tot Ion:	43	Resp:	78918
Ion	Ratio	Lower	Upper
43	100		
61	14.9	13.7	20.5
70	9.7	7.1	10.7

Manual Integrations
APPROVED

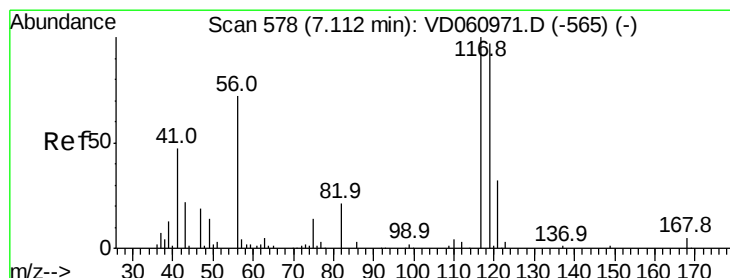
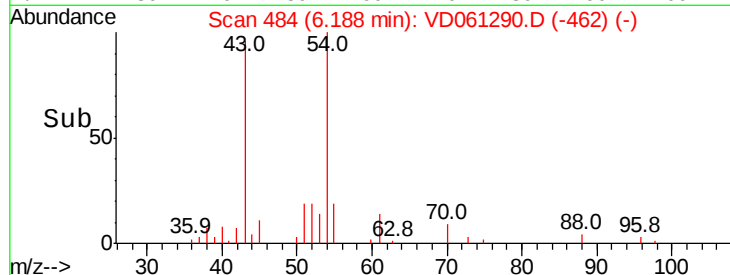
MMDadoda
3/26/2019 2:40:27 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



Time-->



#38

Carbon Tetrachloride

Concen: 27.666 ug/l m

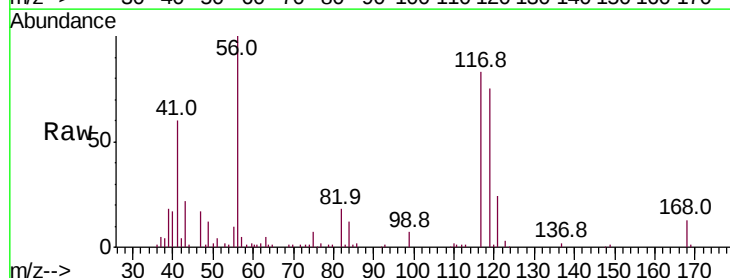
RT: 7.11 min Scan# 578

Delta R.T. 0.00 min

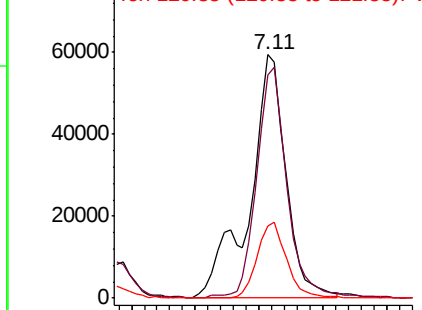
Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

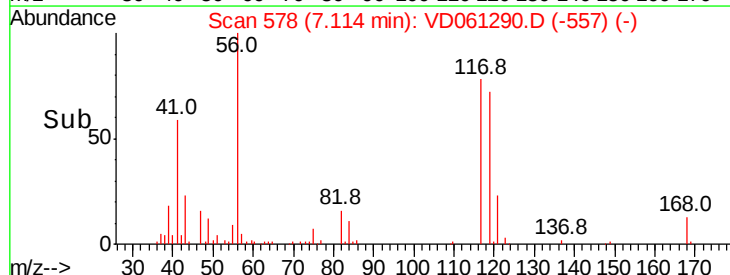
Tgt Ion:	117	Resp:	235323
Ion	Ratio	Lower	Upper
117	100		
119	91.5	77.8	116.8
121	29.4	25.3	37.9

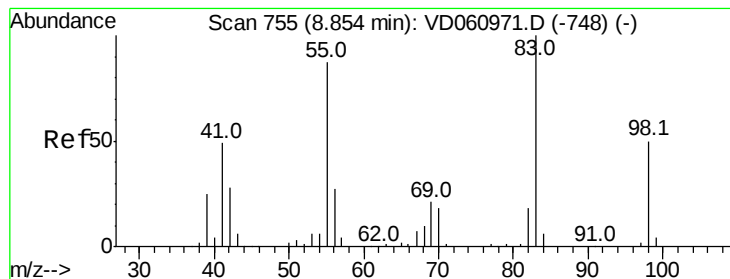


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V



Time-->





#39

Methvlcvclohexane

Concen: 20.958 ug/l

RT: 8.88 min Scan# 757

Delta R.T. 0.02 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 83 Resp: 167814

Ion Ratio Lower Upper

83 100

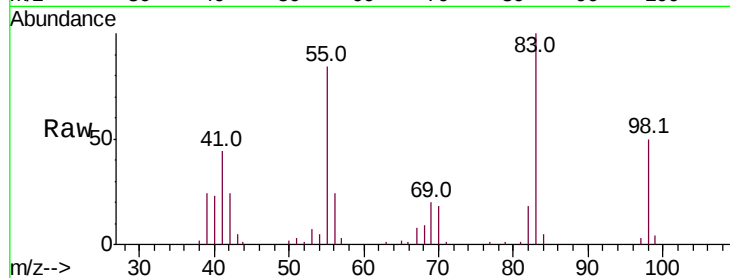
55 83.7 69.6 104.4

98 49.7 40.0 60.0

Manual Integrations
APPROVED

MMDadoda

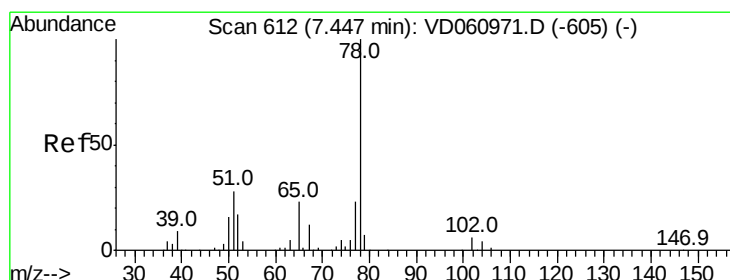
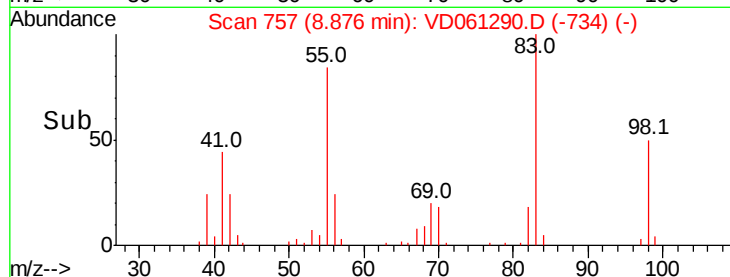
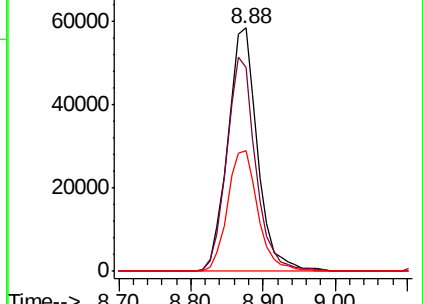
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Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 21.245 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061290.D

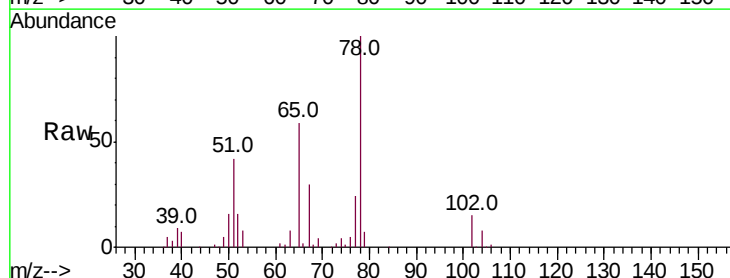
Acq: 23 Mar 2019 19:38

Tgt Ion: 78 Resp: 409921

Ion Ratio Lower Upper

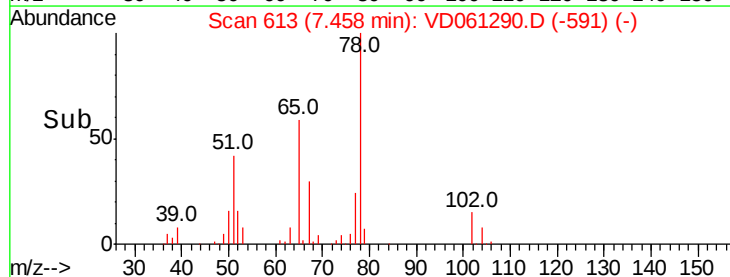
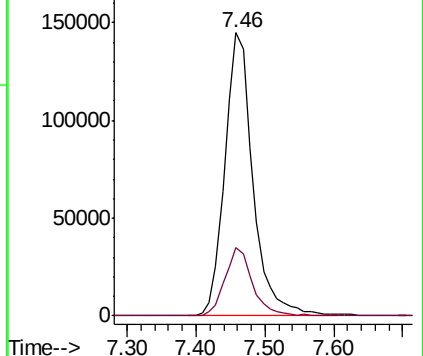
78 100

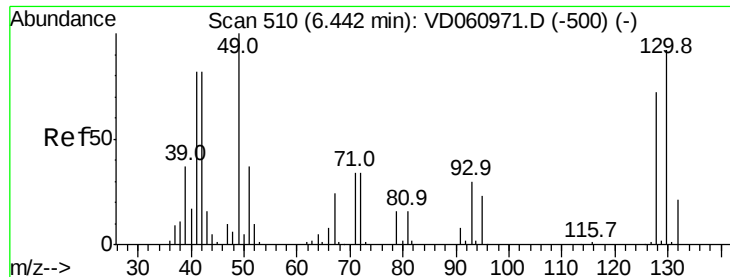
77 24.3 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





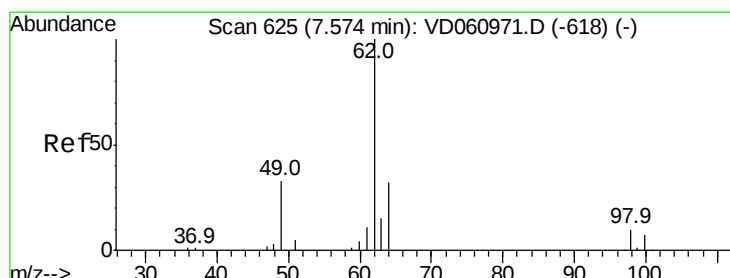
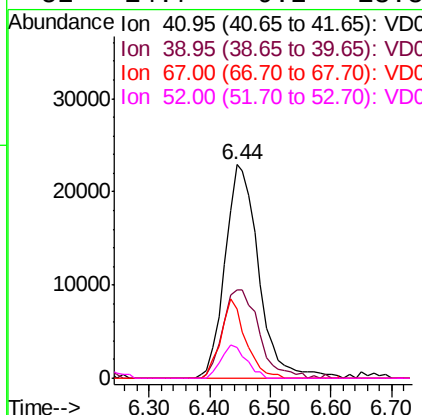
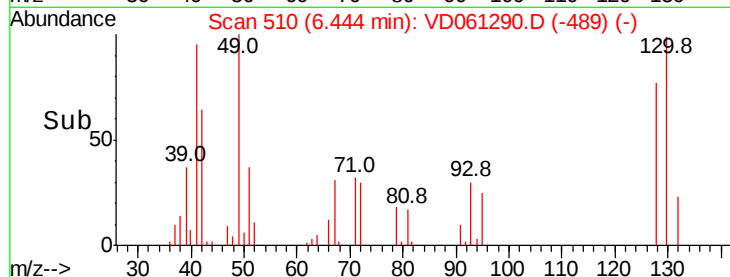
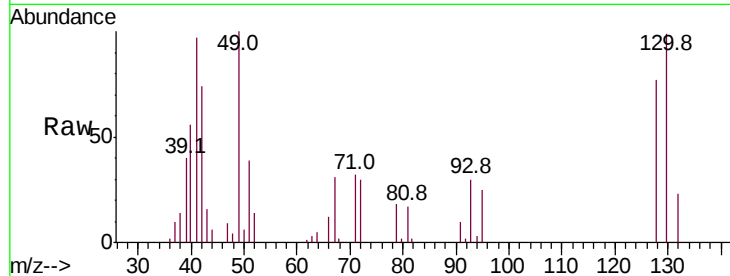
#41
Methacrylonitrile
Concen: 21.238 ug/l
RT: 6.44 min Scan# 510
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	41.2	35.7	53.5
67	32.6	23.0	34.6
52	14.7	9.2	13.8

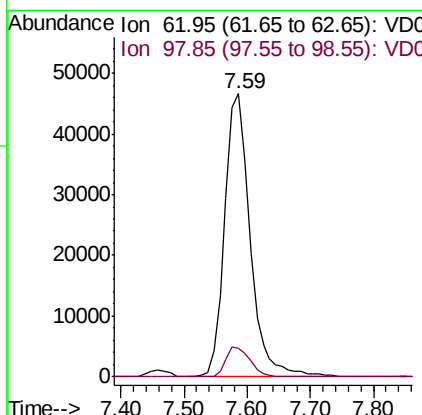
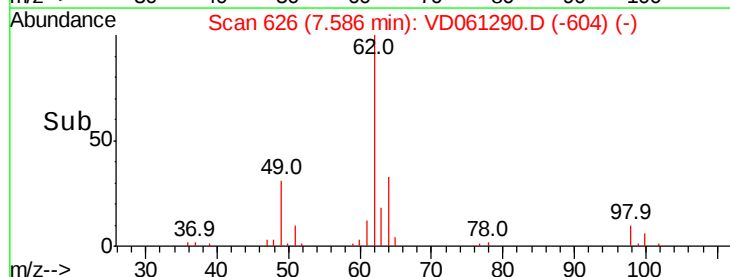
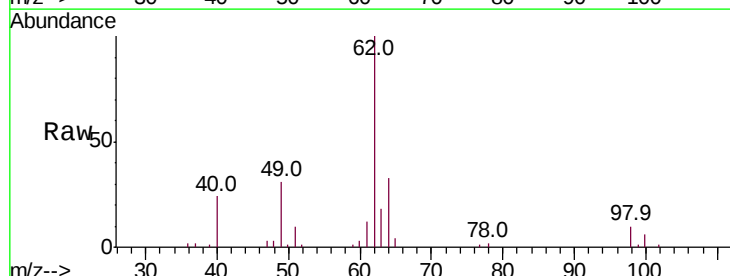
Manual Integrations
APPROVED

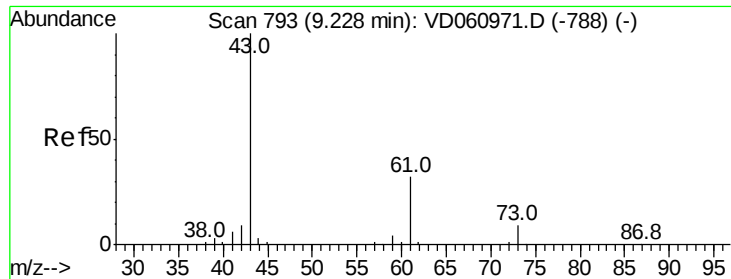
MMDadoda
3/26/2019 2:40:27 PM



#42
1,2-Dichloroethane
Concen: 23.387 ug/l
RT: 7.59 min Scan# 626
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.4





#43

Isopropyl Acetate

Concen: 21.686 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 43 Resp: 108839

Ion Ratio Lower Upper

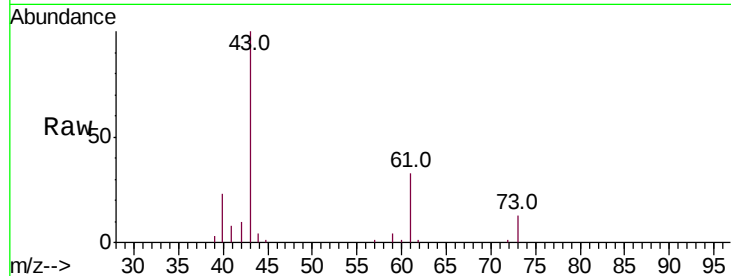
43 100

61 32.5 25.6 38.4

87 0.0 0.2 0.4#

Manual Integrations
APPROVED

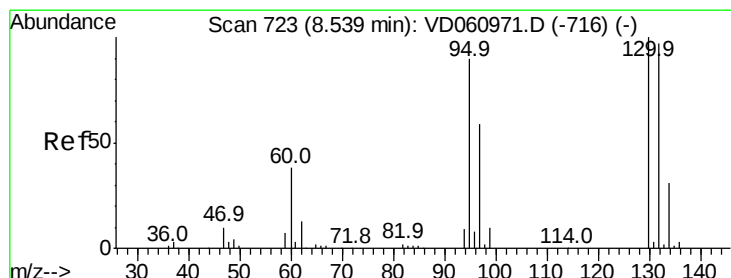
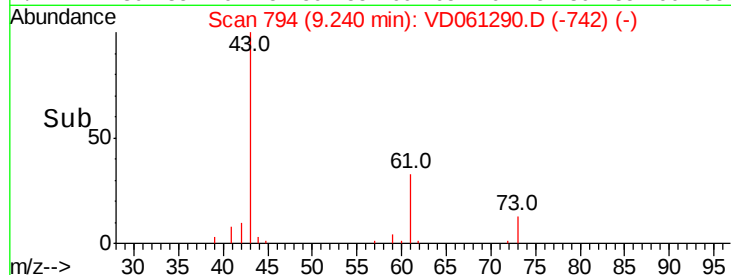
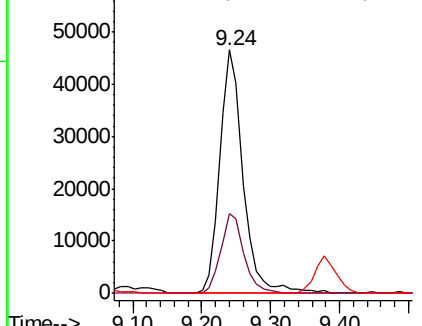
MMDadoda
3/26/2019 2:40:27 PM



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: 23.821 ug/l

RT: 8.55 min Scan# 724

Delta R.T. 0.01 min

Lab File: VD061290.D

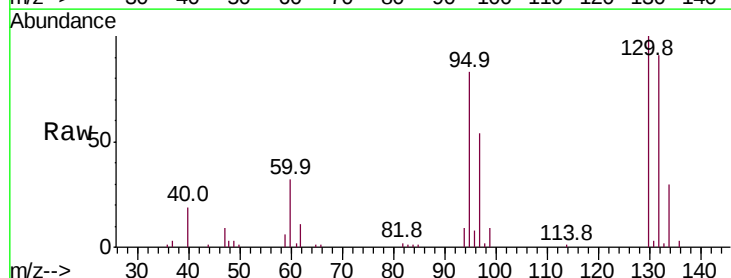
Acq: 23 Mar 2019 19:38

Tgt Ion:130 Resp: 158572

Ion Ratio Lower Upper

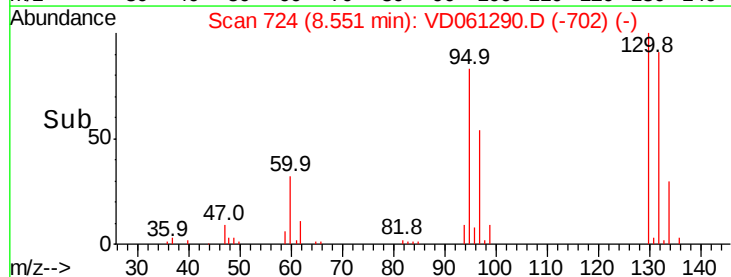
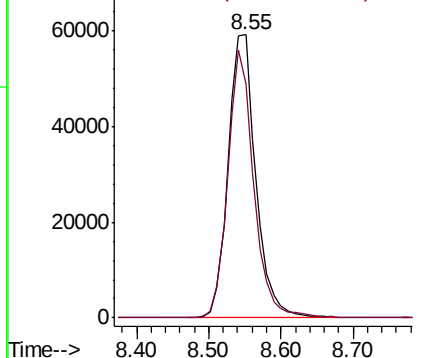
130 100

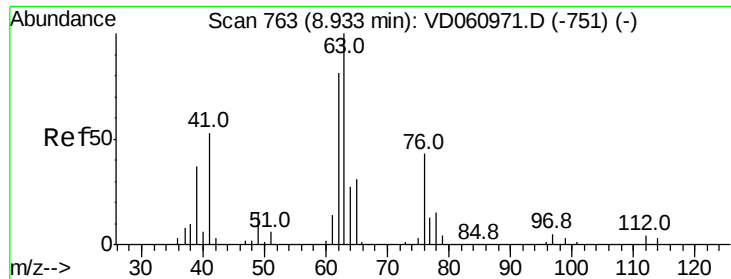
95 82.6 0.0 179.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





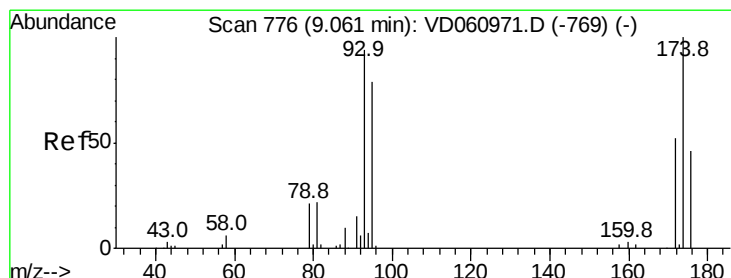
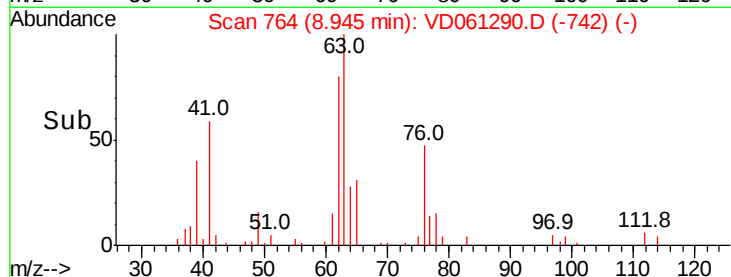
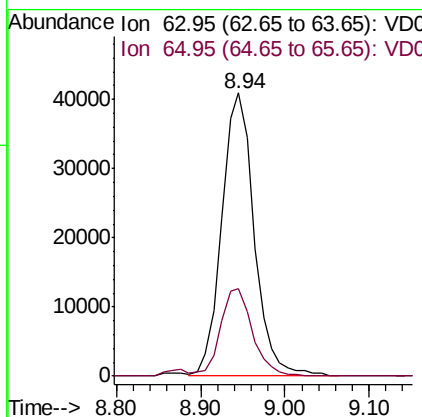
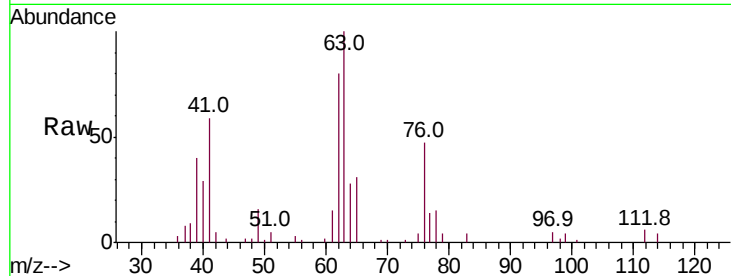
#45
1,2-Dichloropropane
Concen: 21.570 ug/l
RT: 8.94 min Scan# 764
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion: 63 Resp: 109345
Ion Ratio Lower Upper
63 100
65 31.1 24.8 37.2

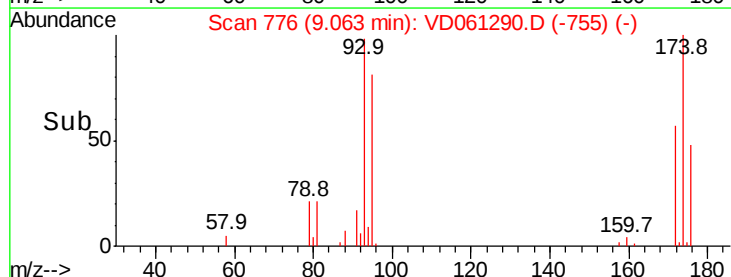
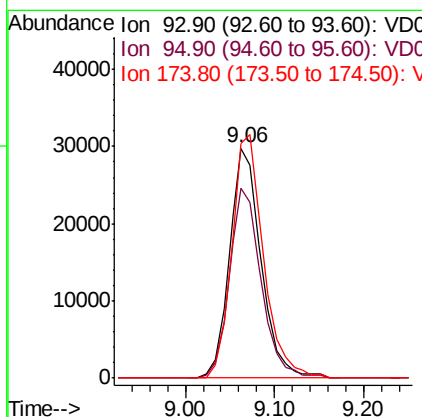
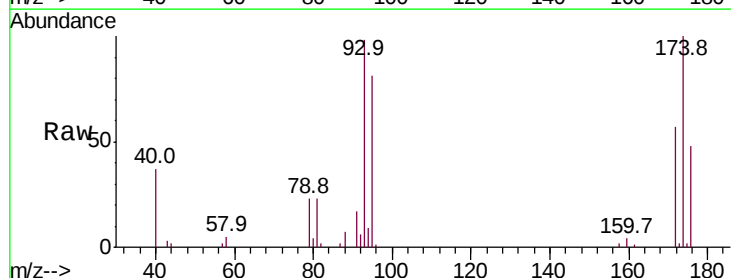
Manual Integrations
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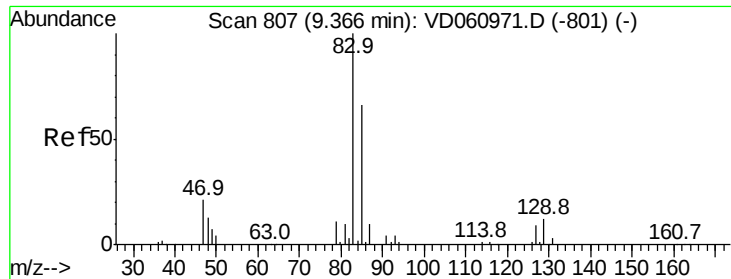
MMDadoda
3/26/2019 2:40:27 PM



#46
Dibromomethane
Concen: 22.966 ug/l
RT: 9.06 min Scan# 776
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 93 Resp: 73848
Ion Ratio Lower Upper
93 100
95 82.7 67.4 101.0
174 102.0 85.4 128.0





#47

Bromodichloromethane

Concen: 21.620 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

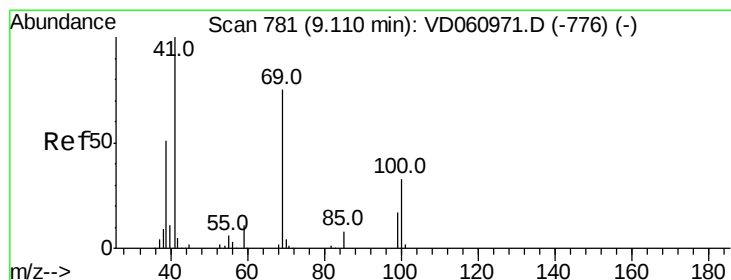
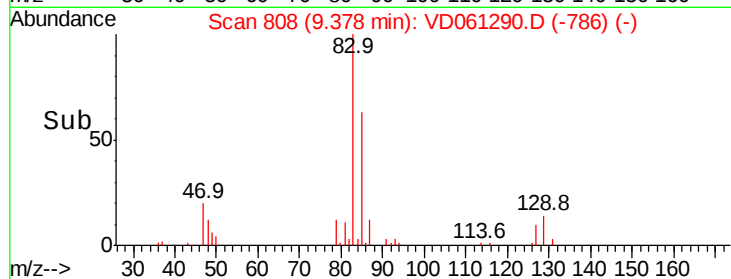
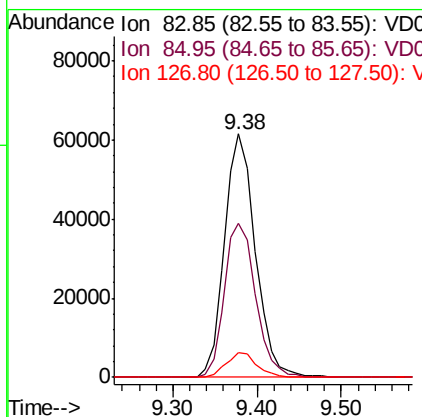
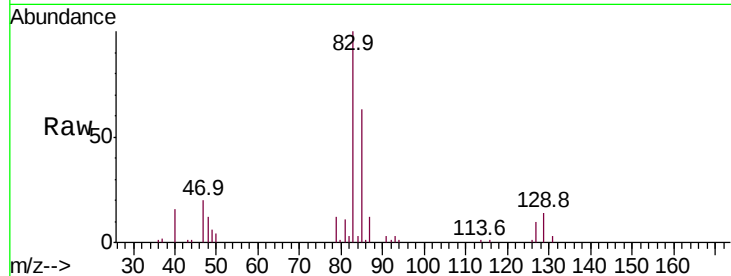
ClientSampleId :

VD0323SBS01

Tot Ion:	83	Resp:	156882
Ion Ratio	Lower	Upper	
83	100		
85	63.3	52.5	78.7
127	9.9	7.5	11.3

Manual Integrations
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MMDadoda
3/26/2019 2:40:27 PM



#48

Methyl methacrylate

Concen: 22.759 ug/l

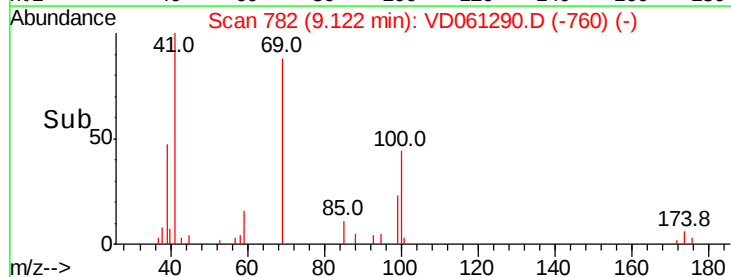
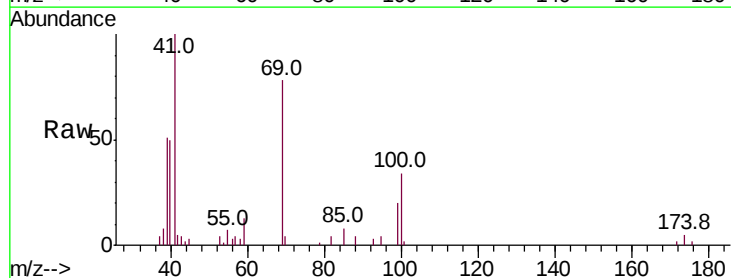
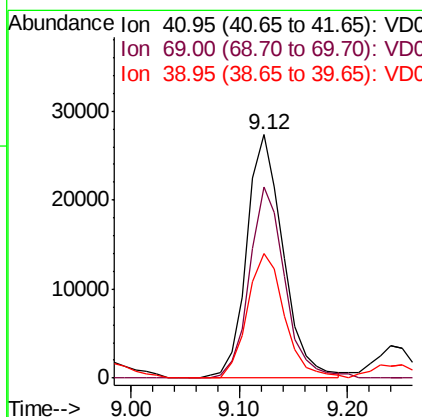
RT: 9.12 min Scan# 782

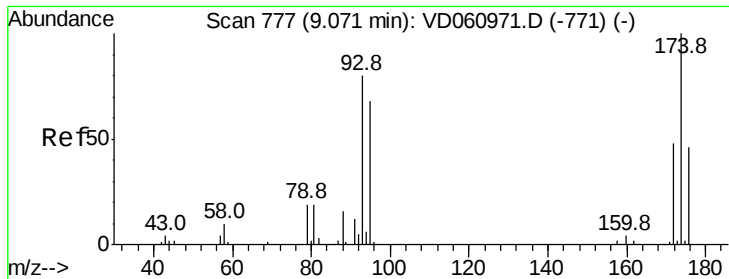
Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	41	Resp:	64312
Ion Ratio	Lower	Upper	
41	100		
69	78.5	59.9	89.9
39	51.2	40.9	61.3





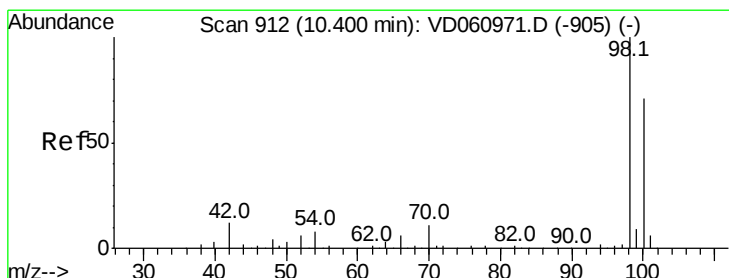
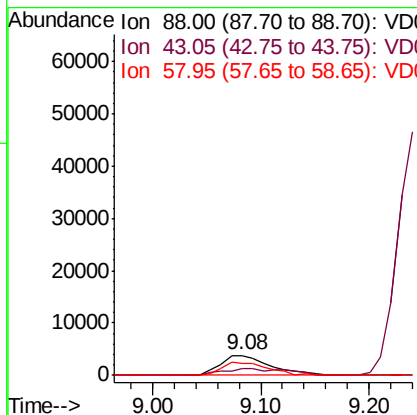
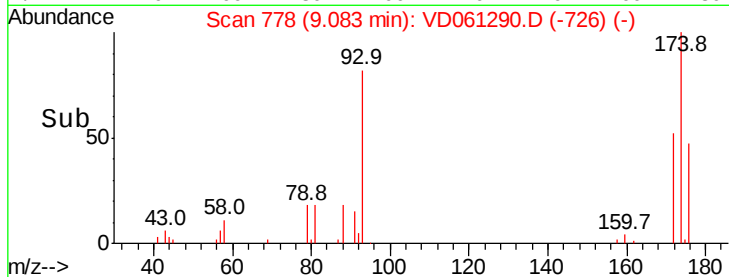
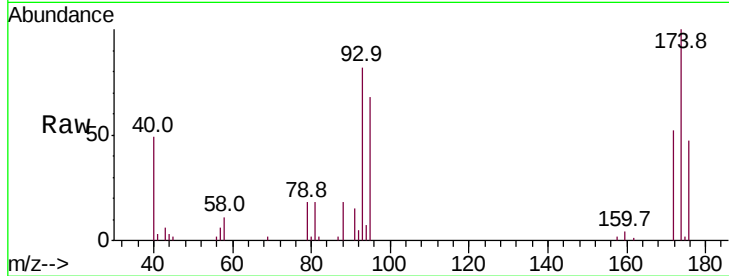
#49
 1,4-Dioxane
 Concen: 425.140 ug/l
 RT: 9.08 min Scan# 778
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.7	21.0	31.6#
58	62.0	48.6	72.8

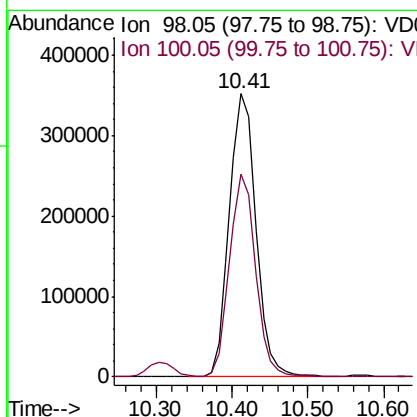
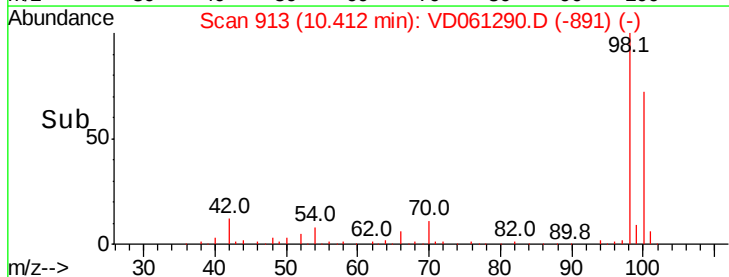
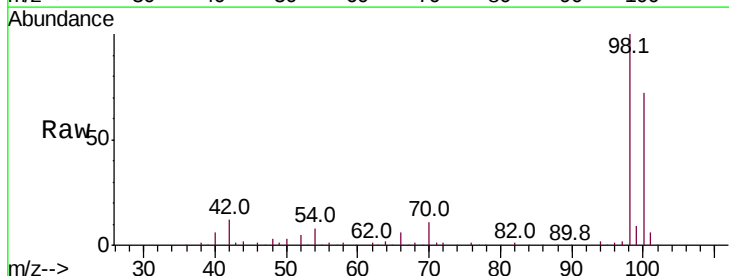
Manual Integrations
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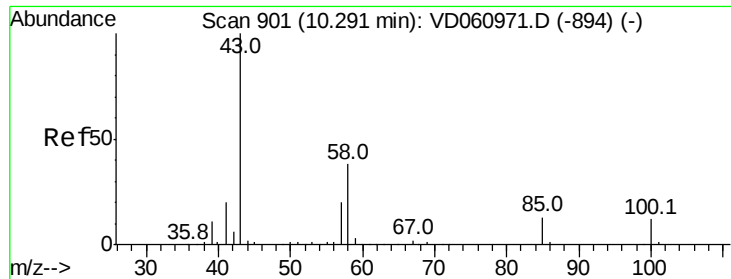
MMDadoda
 3/26/2019 2:40:27 PM



#50
 Toluene-d8
 Concen: 425.140 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.5	57.4	86.2





#51

4-Methyl-2-Pentanone

Concen: 112.042 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 43 Resp: 344495

Ion Ratio Lower Upper

43 100

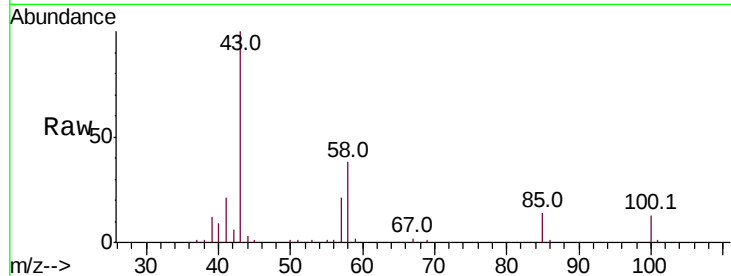
58 38.2 30.2 45.2

Manual Integrations

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MMDadoda

3/26/2019 2:40:27 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

150000

100000

50000

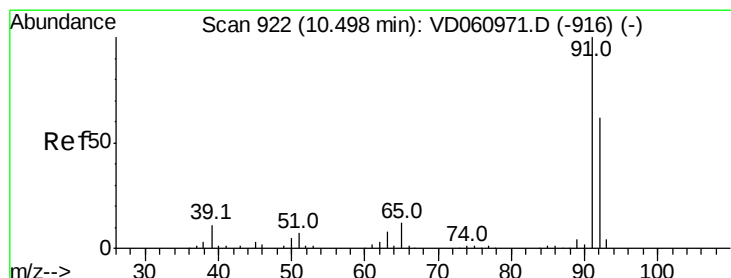
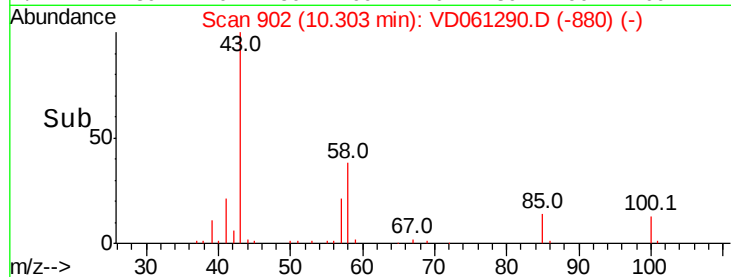
0

10.20

10.30

10.40

Time-->



#52

Toluene

Concen: 22.731 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD061290.D

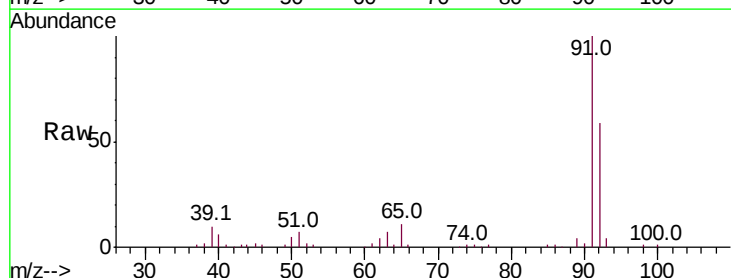
Acq: 23 Mar 2019 19:38

Tgt Ion: 92 Resp: 272734

Ion Ratio Lower Upper

92 100

91 168.7 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

200000

150000

100000

50000

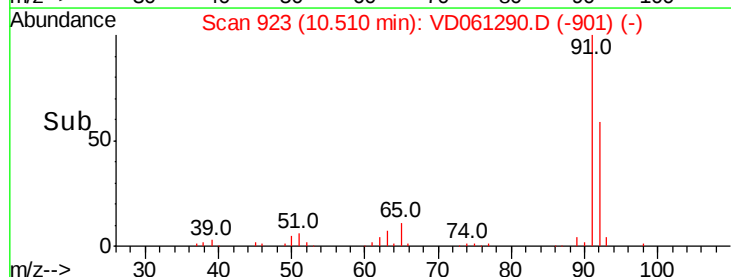
0

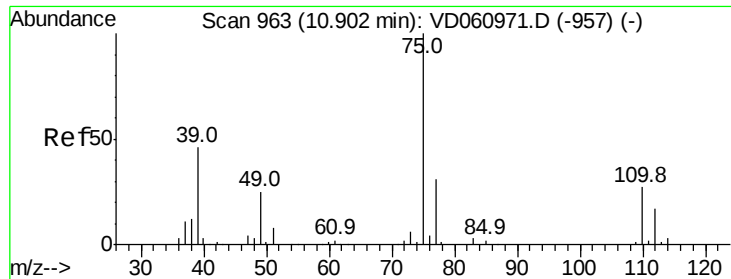
10.40

10.51

10.60

Time-->





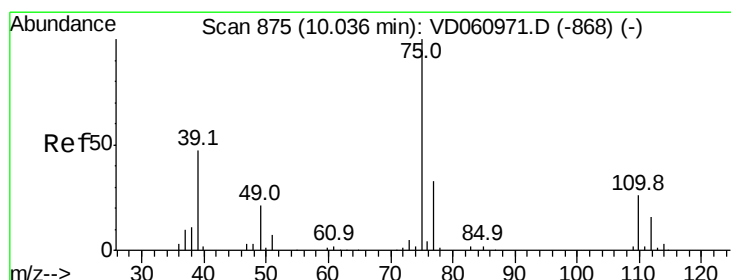
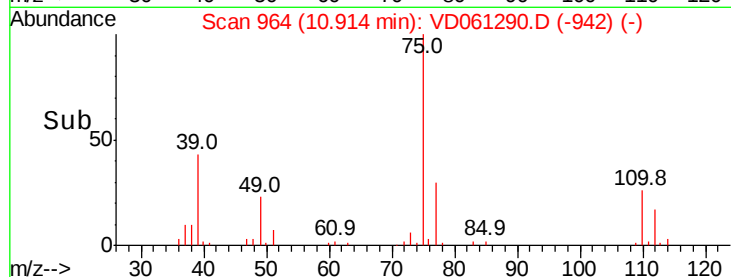
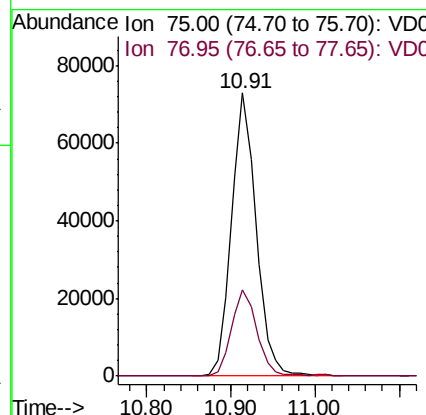
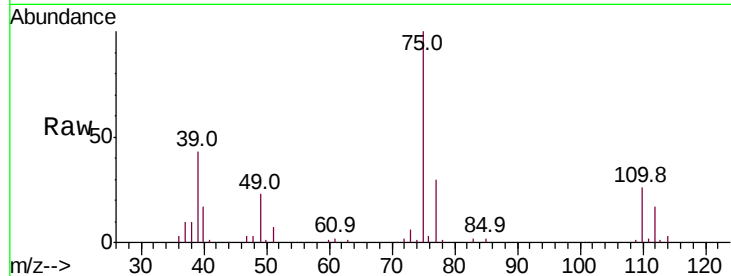
#53
t-1,3-Dichloropropene
Concen: 22.351 ug/l
RT: 10.91 min Scan# 964
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion: 75 Resp: 148301
Ion Ratio Lower Upper
75 100
77 30.5 24.7 37.1

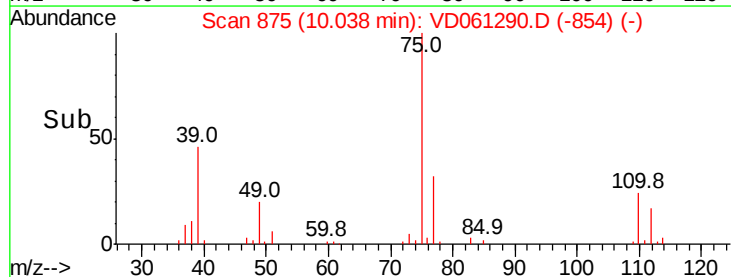
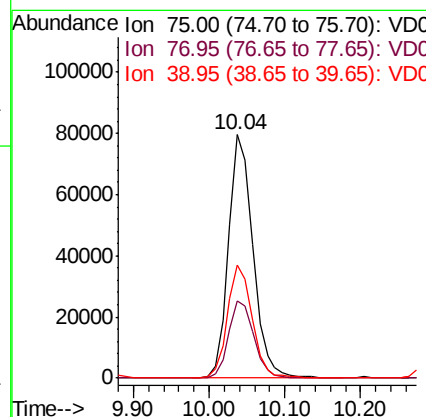
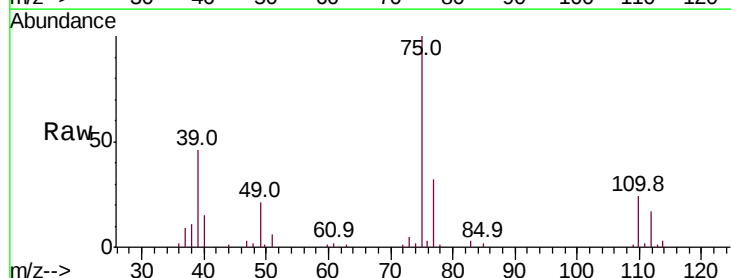
Manual Integrations
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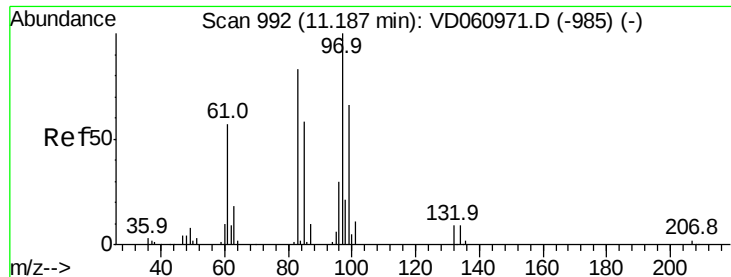
MMDadoda
3/26/2019 2:40:27 PM



#54
cis-1,3-Dichloropropene
Concen: 22.408 ug/l
RT: 10.04 min Scan# 875
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 75 Resp: 178642
Ion Ratio Lower Upper
75 100
77 31.7 26.2 39.4
39 46.5 37.8 56.8





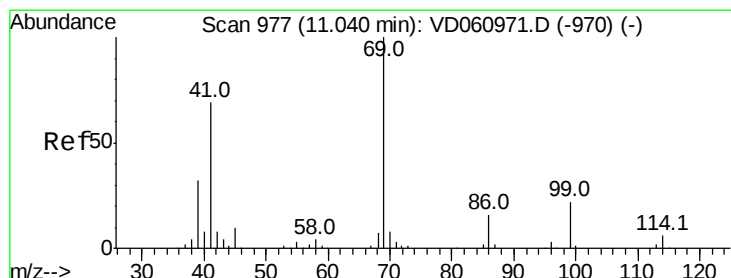
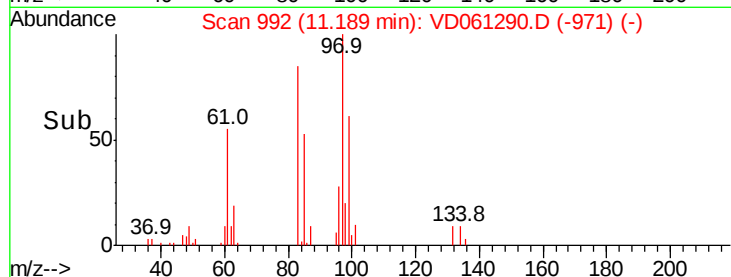
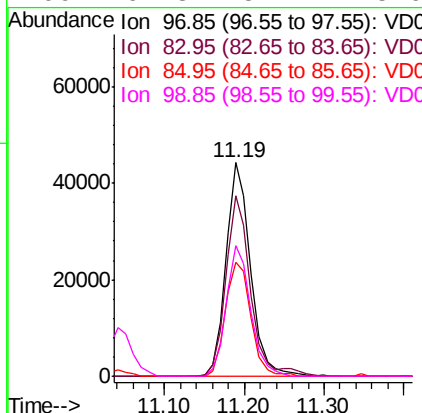
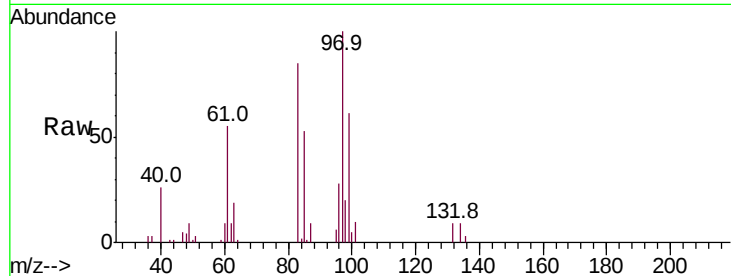
#55
 1,1,2-Trichloroethane
 Concen: 24.008 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.5	66.6	100.0
85	53.1	46.4	69.6
99	61.3	52.4	78.6

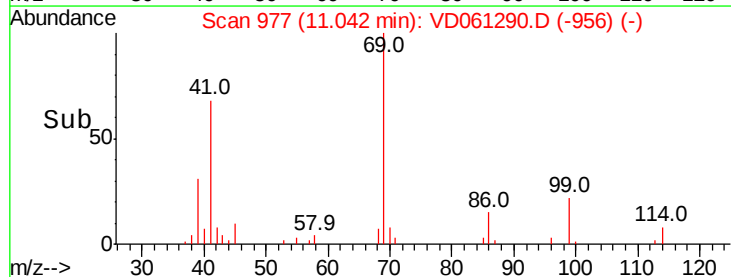
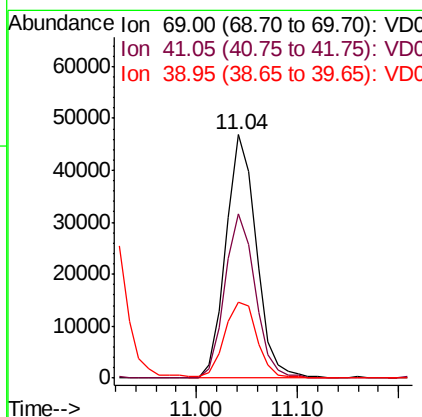
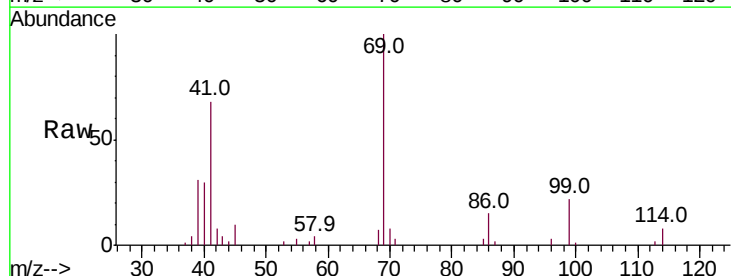
Manual Integrations
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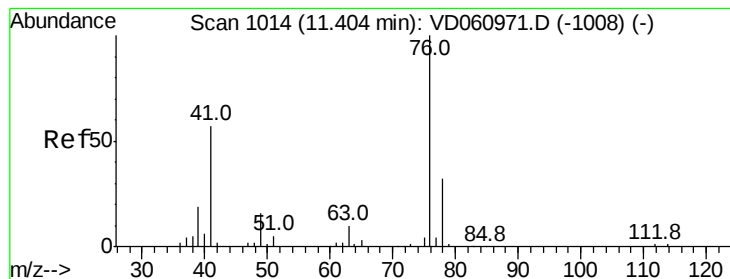
MMDadoda
 3/26/2019 2:40:27 PM



#56
 Ethyl methacrylate
 Concen: 23.536 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
69	100		
41	67.6	55.5	83.3
39	31.4	26.2	39.2





#57

1,3-Dichloropropane

Concen: 23.372 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBS01

Tot Ion: 76 Resp: 139560

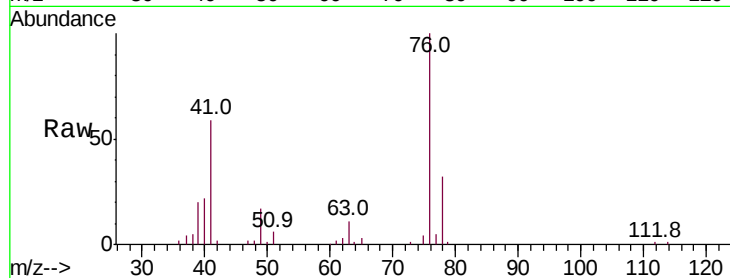
Ion Ratio Lower Upper

76 100

78 31.5 25.4 38.0

Manual Integrations
APPROVED

MMDadoda
3/26/2019 2:40:27 PM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.41

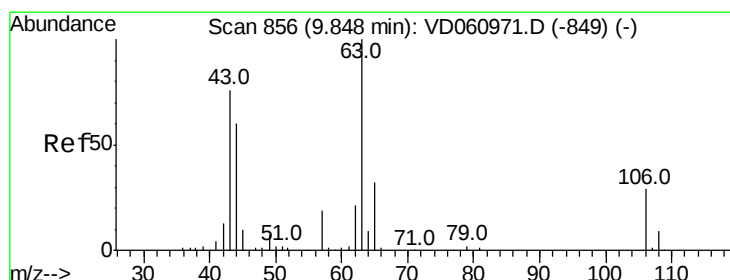
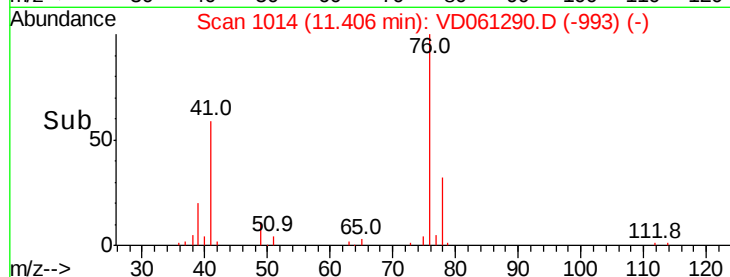
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 104.042 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD061290.D

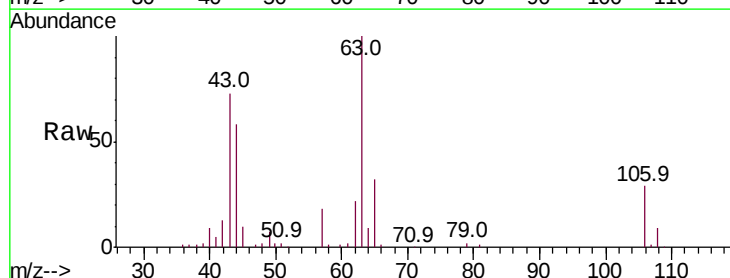
Acq: 23 Mar 2019 19:38

Tgt Ion: 63 Resp: 230333

Ion Ratio Lower Upper

63 100

106 28.8 22.8 34.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.86

120000

100000

80000

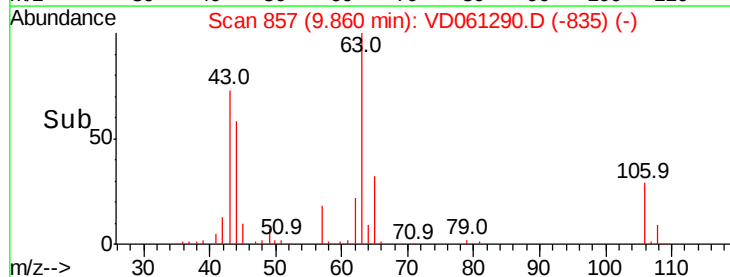
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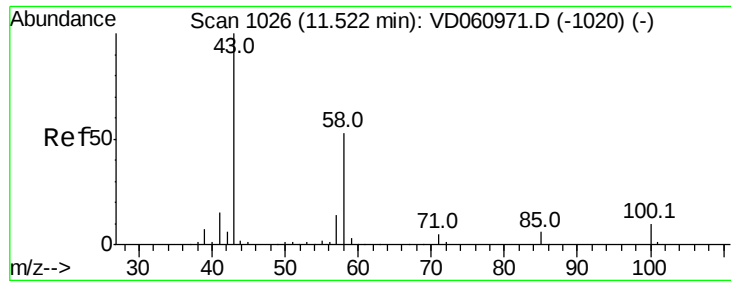
40000

20000

0

Time-->





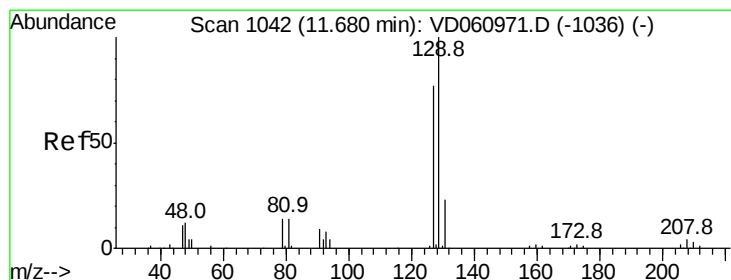
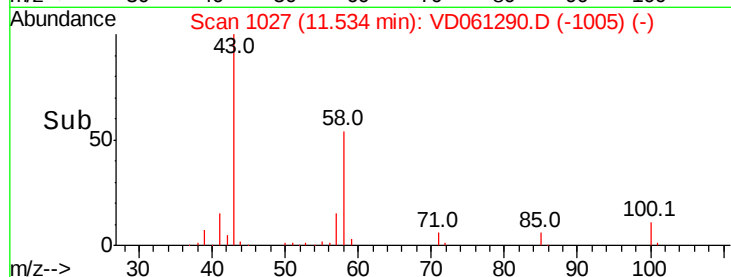
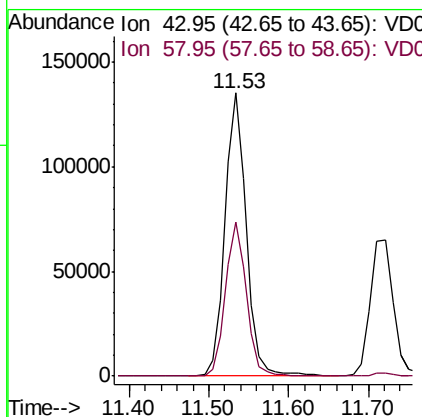
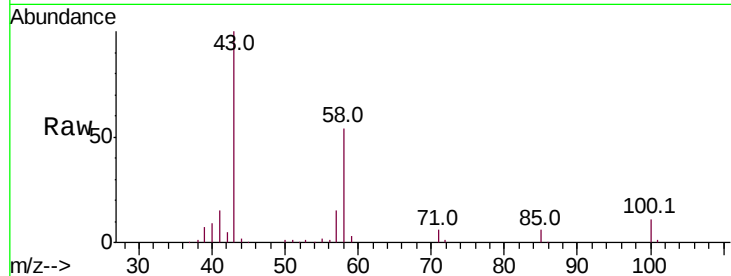
#59
2-Hexanone
Concen: 113.451 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion: 43 Resp: 255167
Ion Ratio Lower Upper
43 100
58 54.3 26.5 79.5

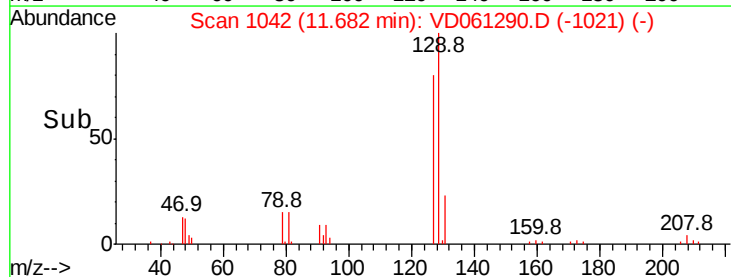
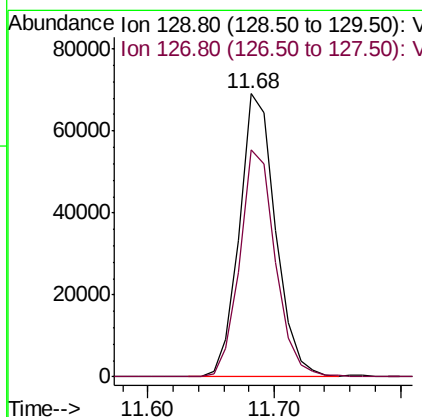
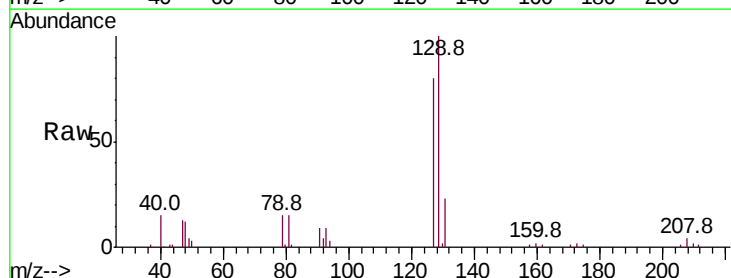
Manual Integrations
APPROVED

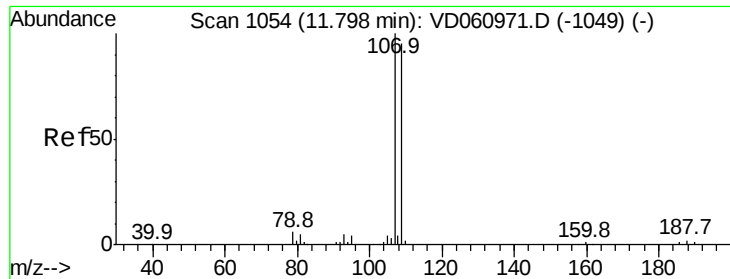
MMDadoda
3/26/2019 2:40:27 PM



#60
Dibromochloromethane
Concen: 23.375 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 129 Resp: 137462
Ion Ratio Lower Upper
129 100
127 80.4 38.3 114.9





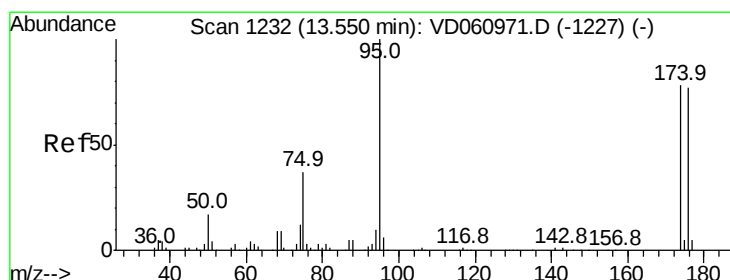
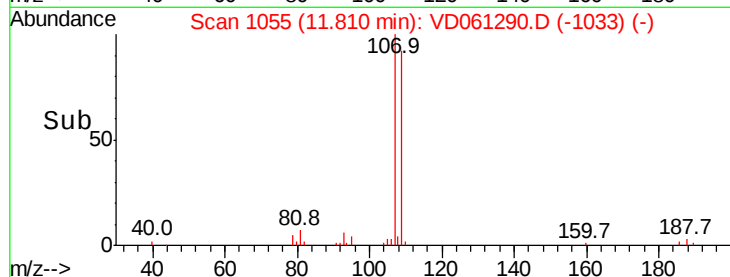
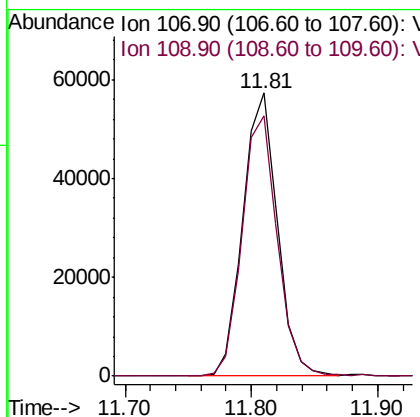
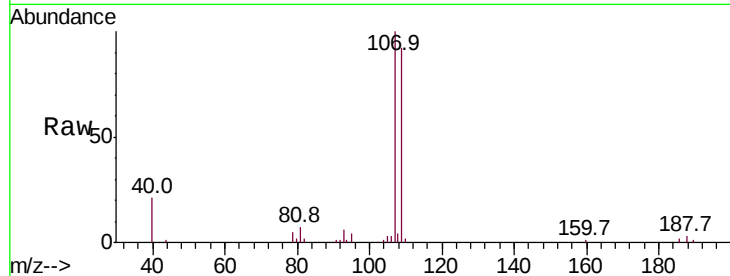
#61
1,2-Dibromoethane
Concen: 23.378 ug/l
RT: 11.81 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.1	75.6	113.4

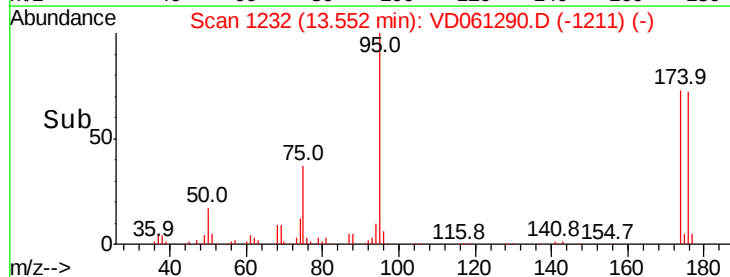
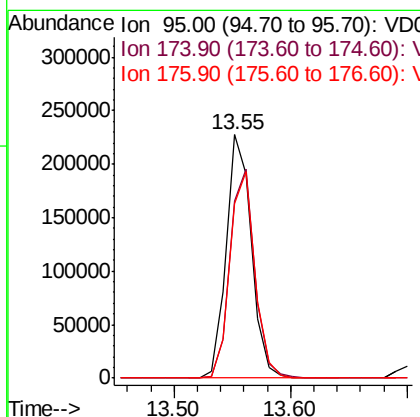
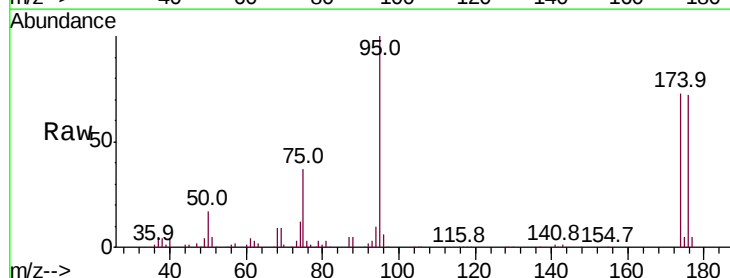
Manual Integrations
APPROVED

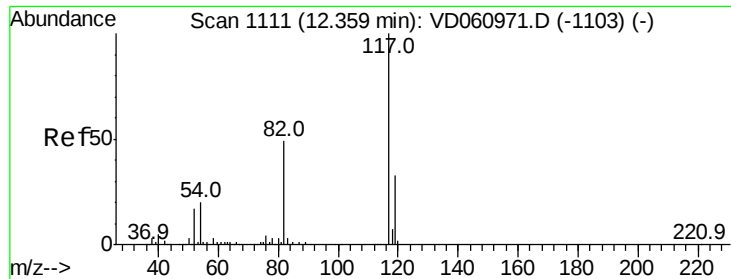
MMDadoda
3/26/2019 2:40:27 PM



#62
4-Bromofluorobenzene
Concen: 23.378 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	155.6
176	71.6	0.0	153.8





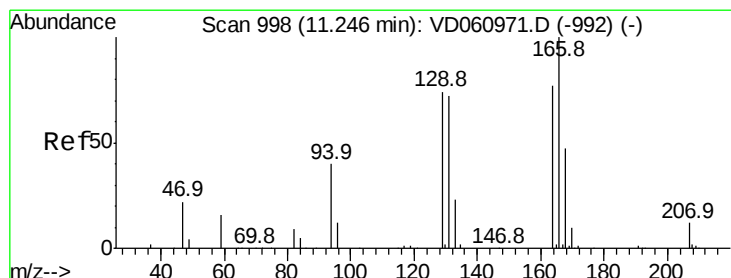
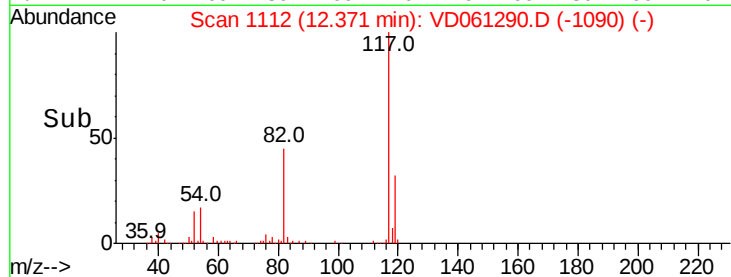
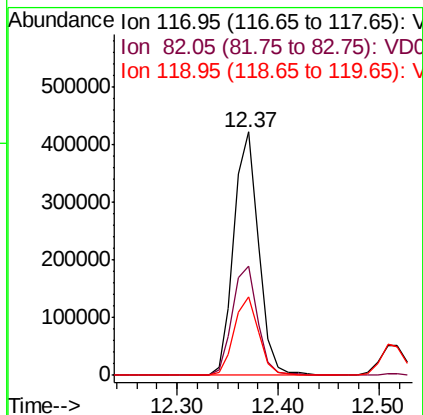
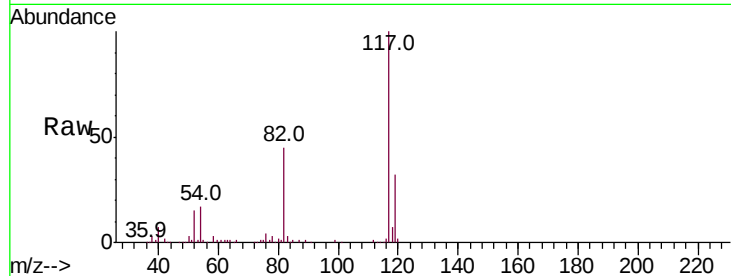
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	718967		
82	45.0		38.9	58.3
119	32.3		26.6	39.8

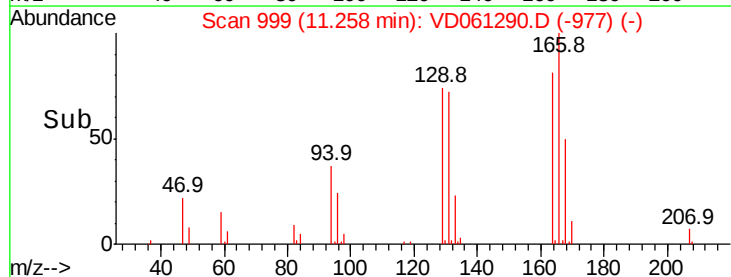
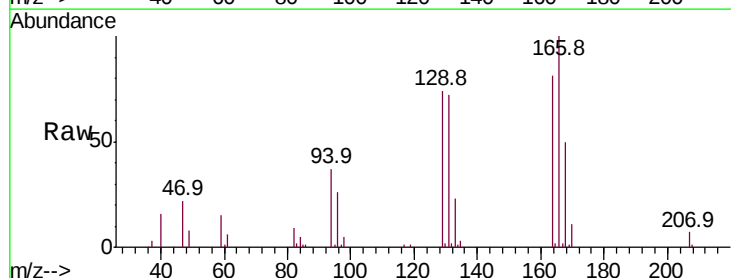
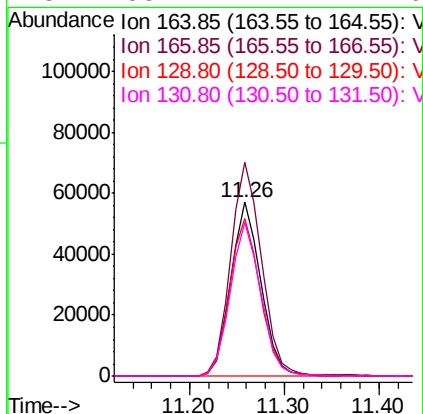
Manual Integrations
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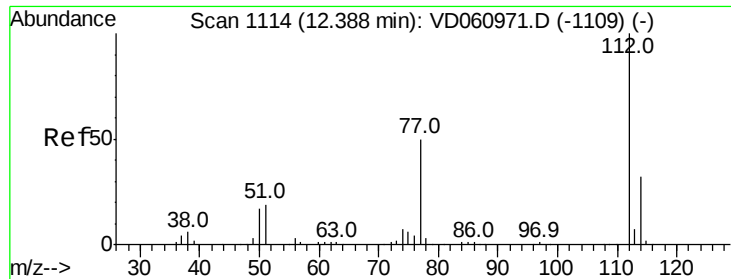
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#64
Tetrachloroethene
Concen: 25.992 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	126147		
166	122.9		103.4	155.0
129	90.6		76.9	115.3
131	88.4		74.4	111.6





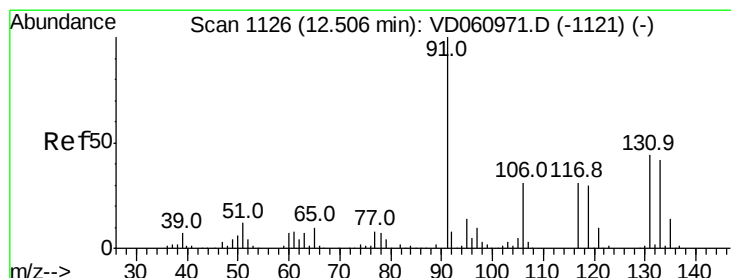
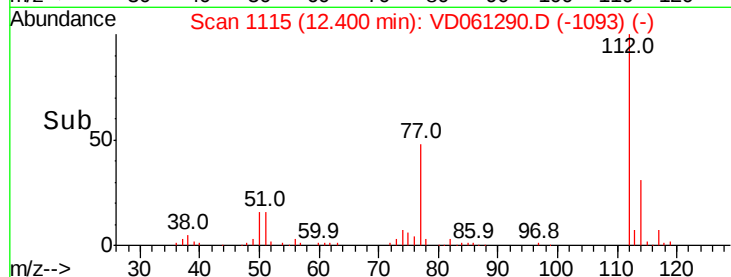
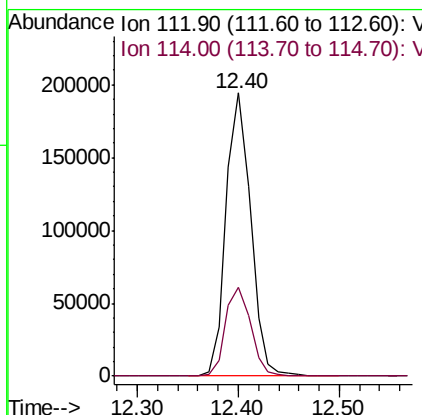
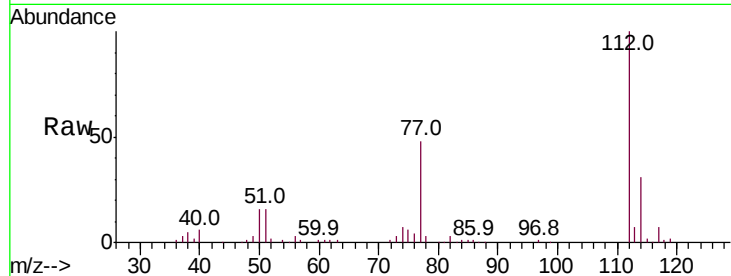
#65
Chlorobenzene
Concen: 23.469 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion:112 Resp: 330787
Ion Ratio Lower Upper
112 100
114 31.3 26.0 39.0

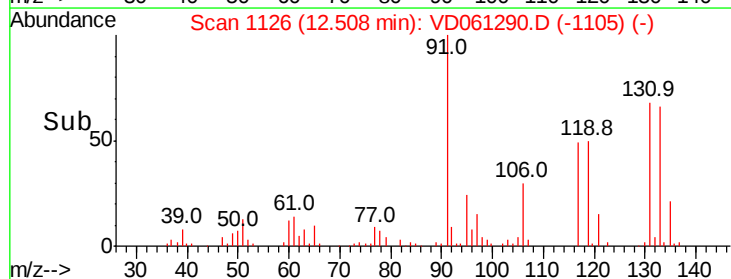
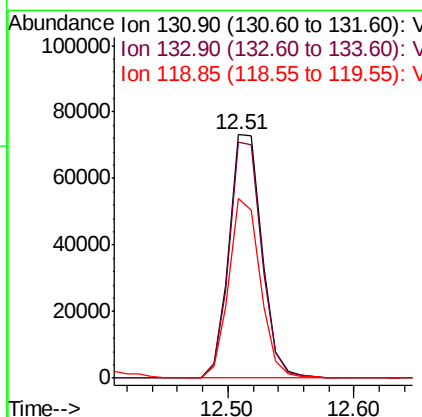
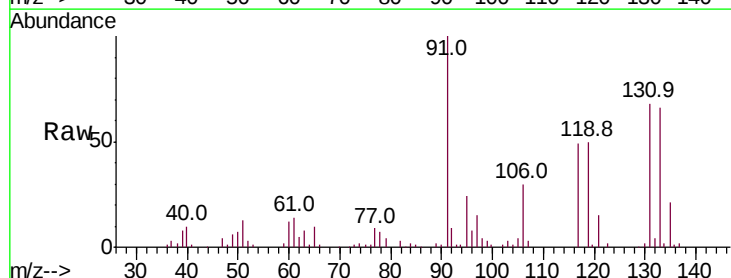
Manual Integrations
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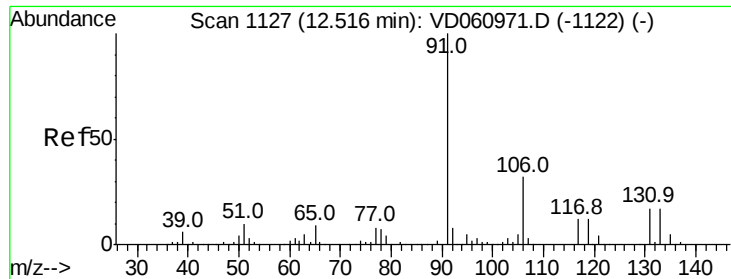
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#66
1,1,1,2-Tetrachloroethane
Concen: 26.180 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion:131 Resp: 131534
Ion Ratio Lower Upper
131 100
133 96.7 47.8 143.3
119 73.8 34.3 102.9





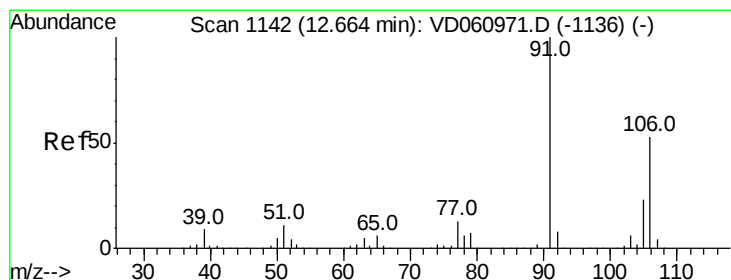
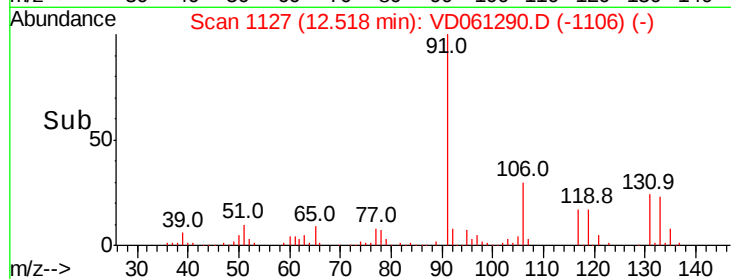
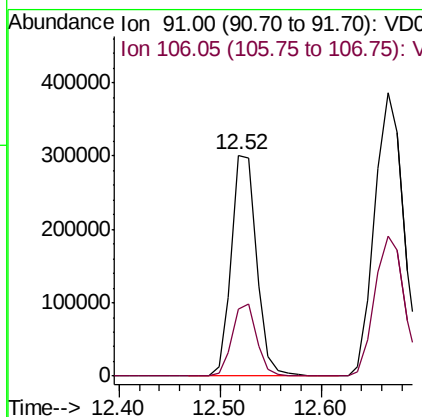
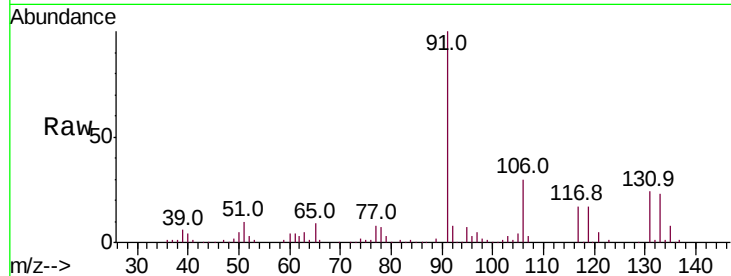
#67
Ethyl Benzene
Concen: 24.858 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion: 91 Resp: 521621
Ion Ratio Lower Upper
91 100
106 30.4 25.7 38.5

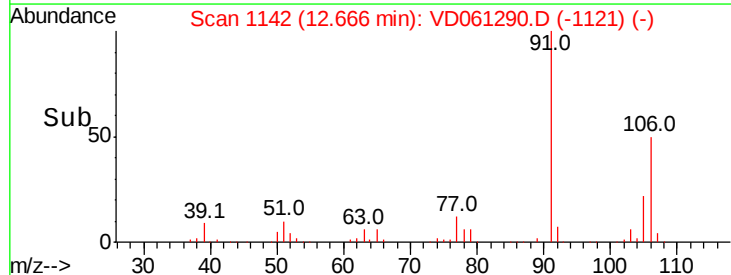
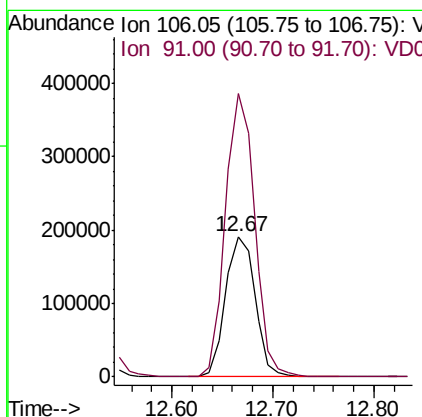
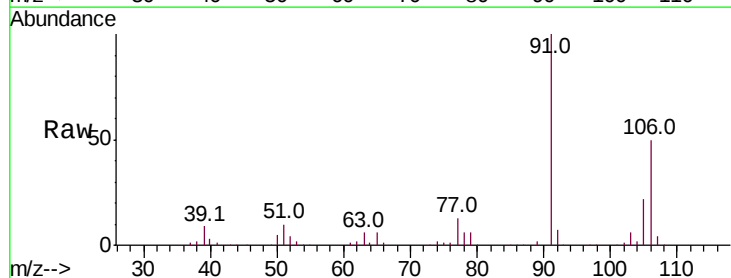
Manual Integrations
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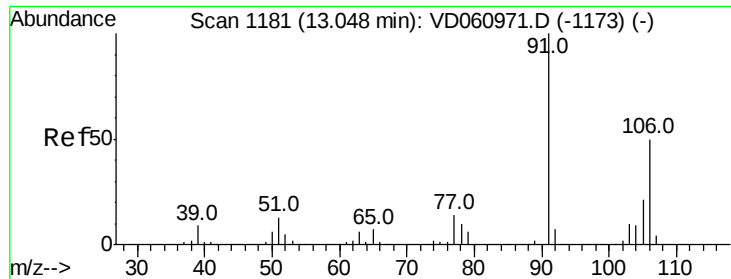
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#68
m/p-Xylenes
Concen: 47.629 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 106 Resp: 392272
Ion Ratio Lower Upper
106 100
91 201.4 152.0 228.0





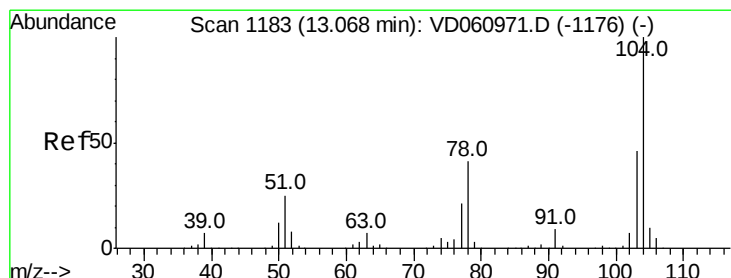
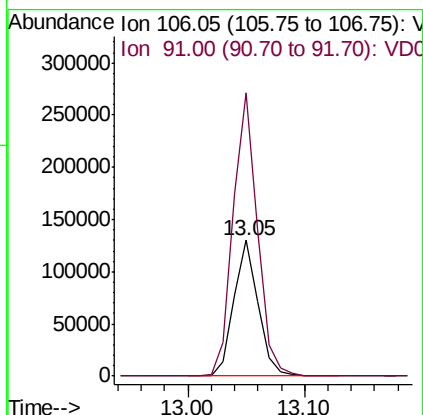
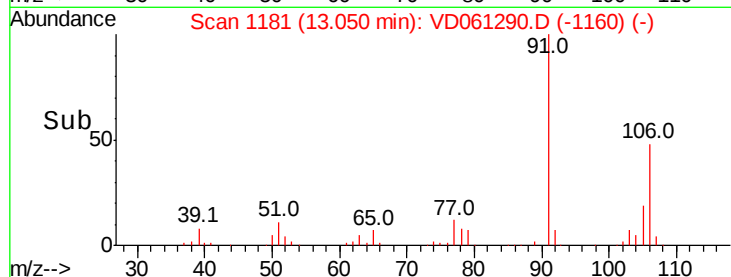
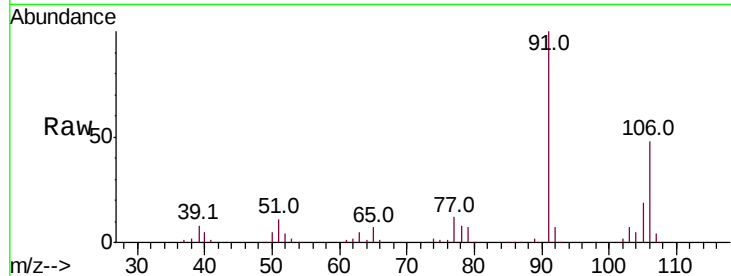
#69
o-Xylene
Concen: 23.289 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion:106 Resp: 188536
Ion Ratio Lower Upper
106 100
91 208.7 99.8 299.3

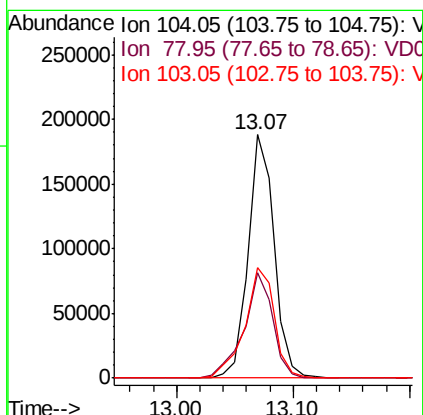
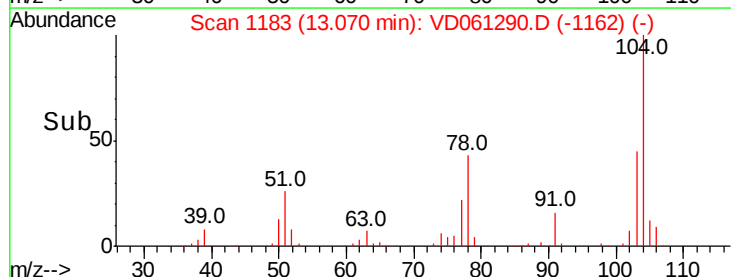
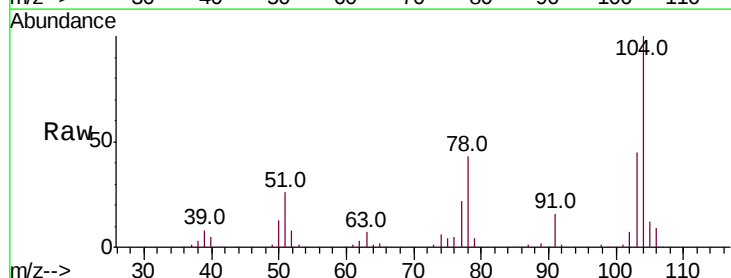
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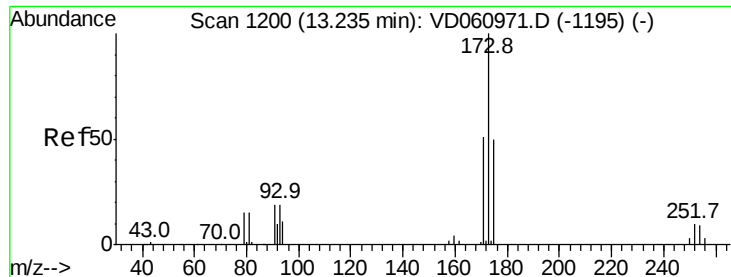
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#70
Styrene
Concen: 22.039 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion:104 Resp: 291337
Ion Ratio Lower Upper
104 100
78 43.4 33.0 49.4
103 45.1 37.1 55.7





#71

Bromoform

Concen: 25.162 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

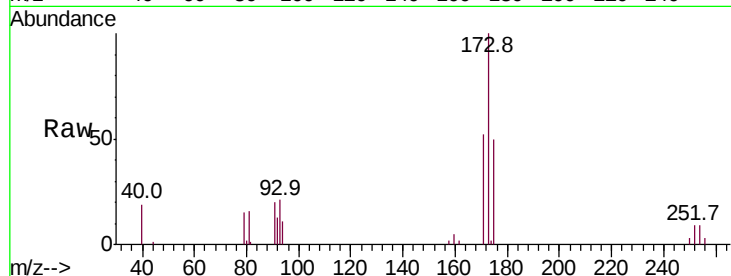
ClientSampleId :

VD0323SBS01

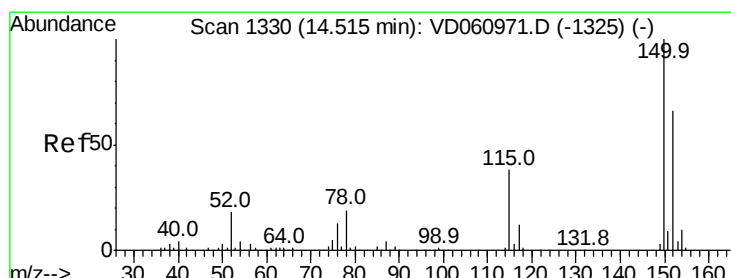
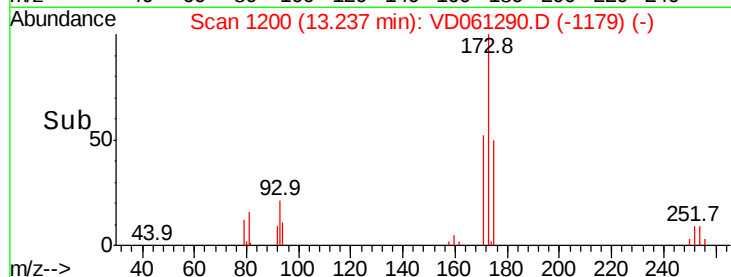
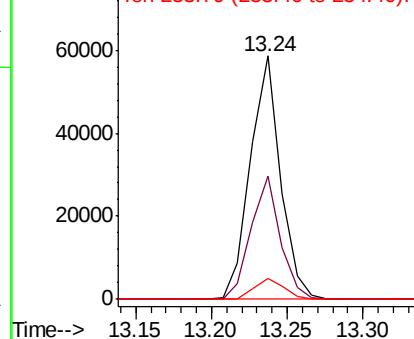
Tot Ion:	173	Resp:	81553
Ion Ratio	Lower	Upper	
173	100		
175	50.5	24.9	74.8
254	8.6	7.3	10.9

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

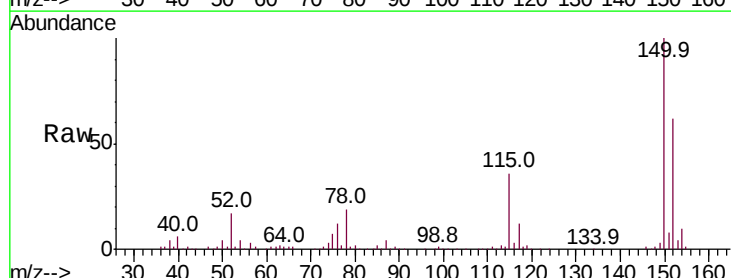
RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

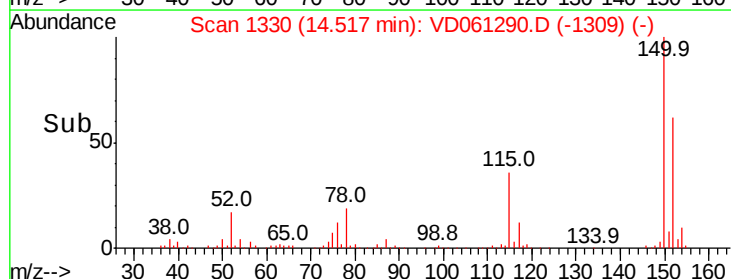
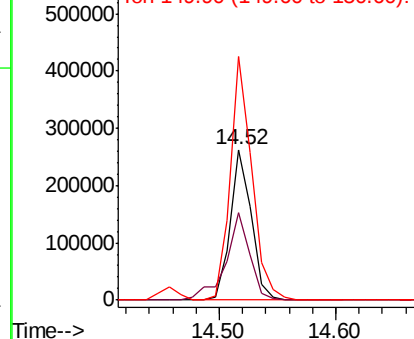
Lab File: VD061290.D

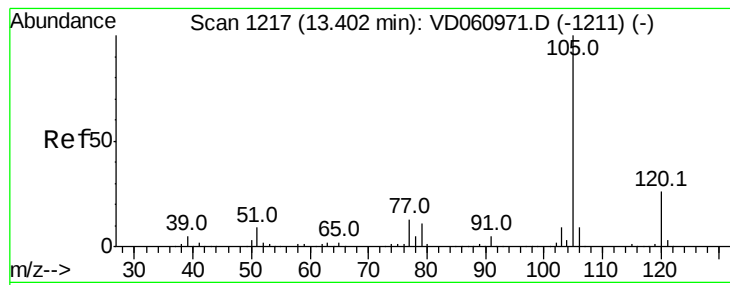
Acq: 23 Mar 2019 19:38

Tgt Ion:	152	Resp:	325871
Ion Ratio	Lower	Upper	
152	100		
115	57.9	28.6	85.9
150	161.7	0.0	310.6



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





#73

Isopropylbenzene

Concen: 19.554 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampled :

VD0323SBS01

Tot Ion: 105 Resp: 459228

Ion Ratio Lower Upper

105 100

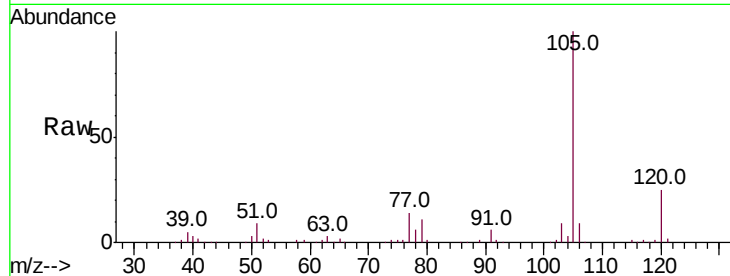
120 24.9 12.8 38.4

Manual Integrations

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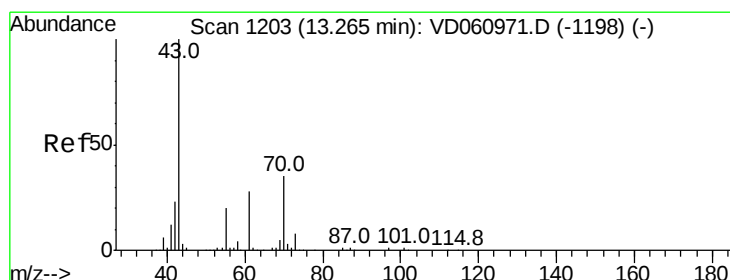
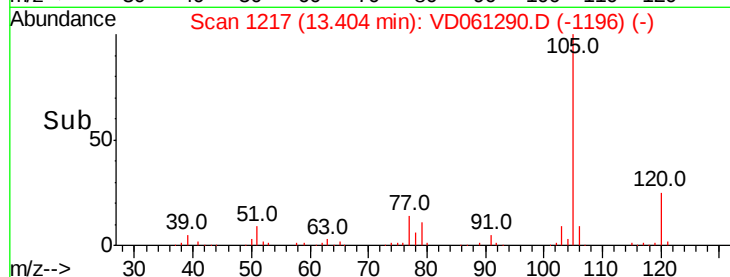
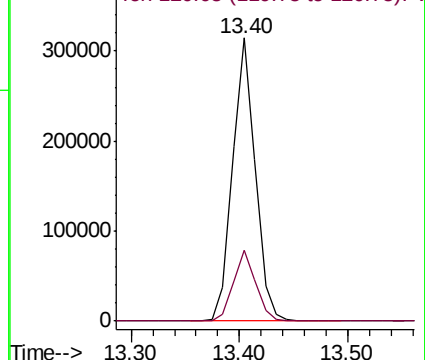
MMDadoda

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.150 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion: 43 Resp: 139863

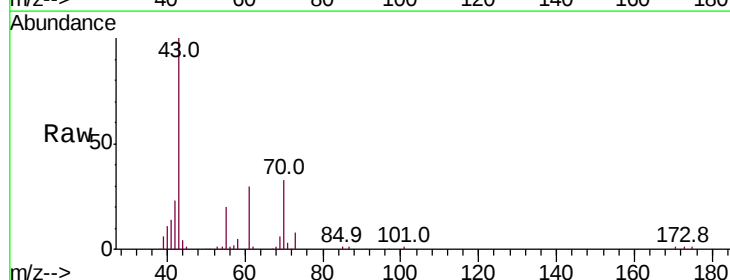
Ion Ratio Lower Upper

43 100

70 33.3 27.7 41.5

55 19.6 16.2 24.2

61 29.6 22.3 33.5

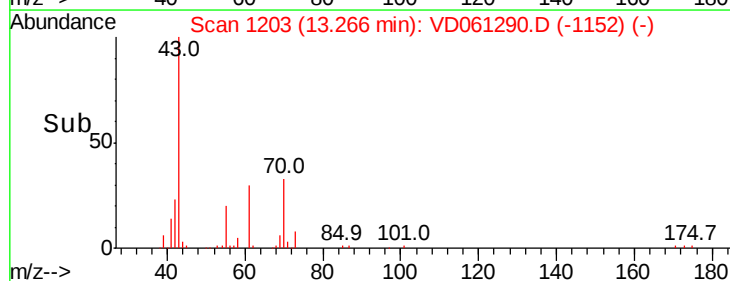
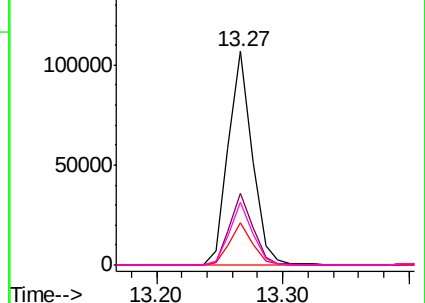


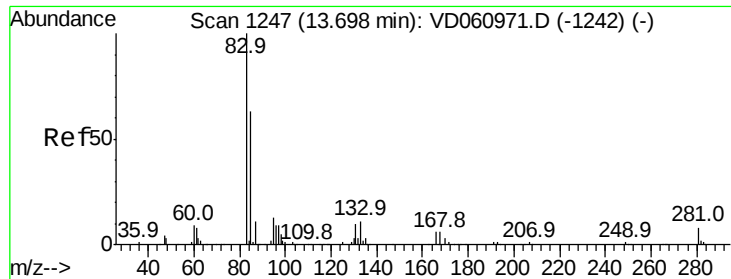
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.709 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

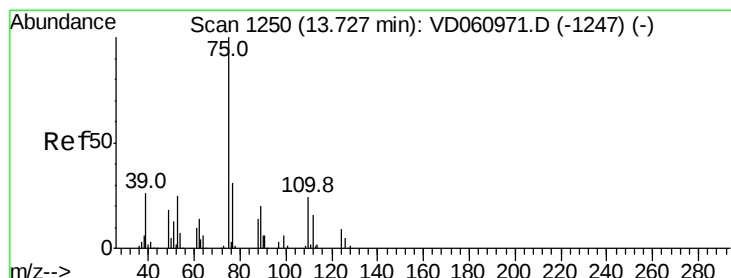
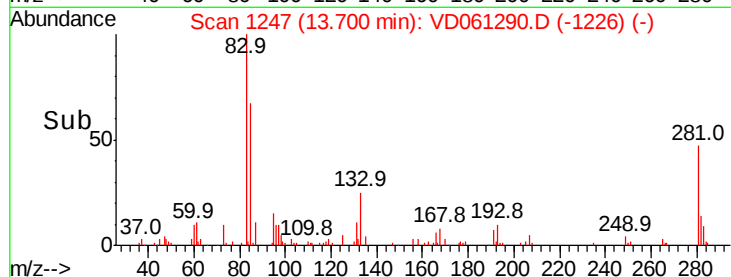
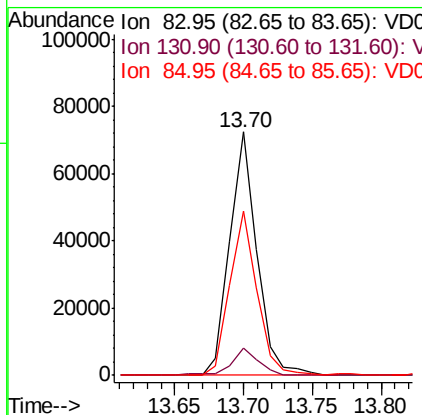
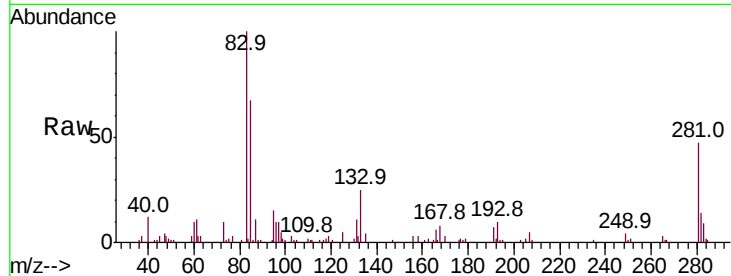
ClientSampleId :

VD0323SBS01

Tot Ion:	83	Resp:	99470
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.1	15.3
85	67.4	31.5	94.5

Manual Integrations
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3/26/2019 2:40:27 PM



#76

1,2,3-Trichloropropane

Concen: 23.016 ug/l

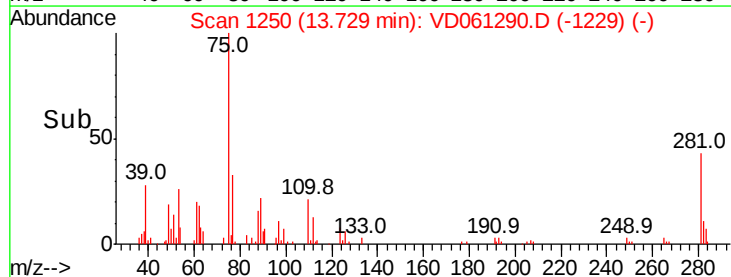
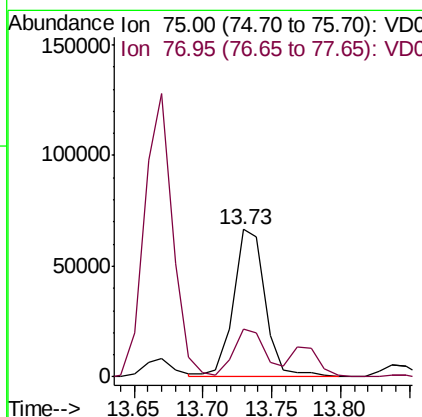
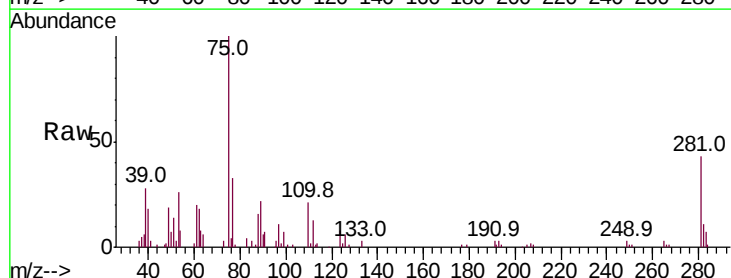
RT: 13.73 min Scan# 1250

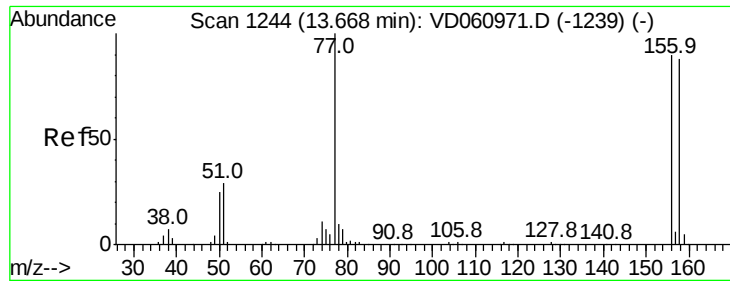
Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	75	Resp:	107905
Ion Ratio	Lower	Upper	
75	100		
77	32.8	16.6	49.7





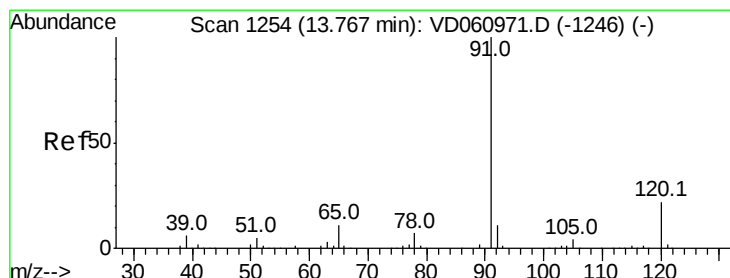
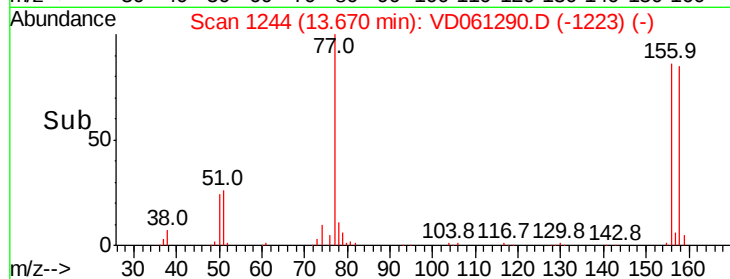
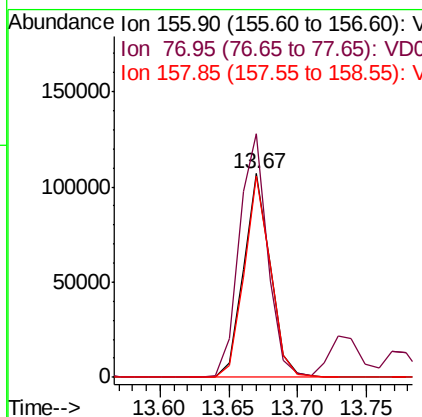
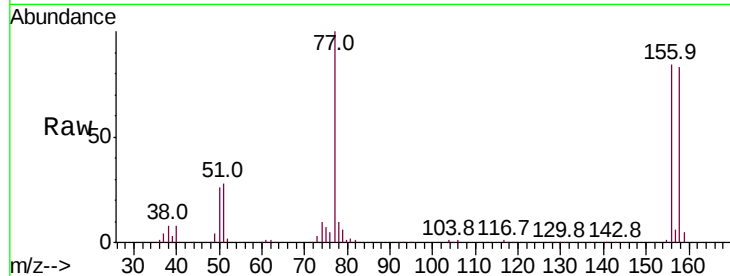
#77
Bromobenzene
Concen: 24.135 ug/l
RT: 13.67 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion:156 Resp: 144687
Ion Ratio Lower Upper
156 100
77 119.7 55.5 166.7
158 98.8 49.0 147.0

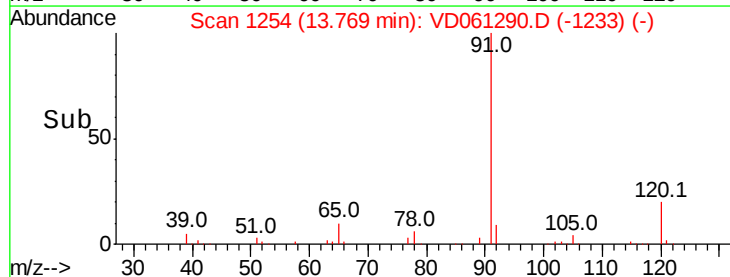
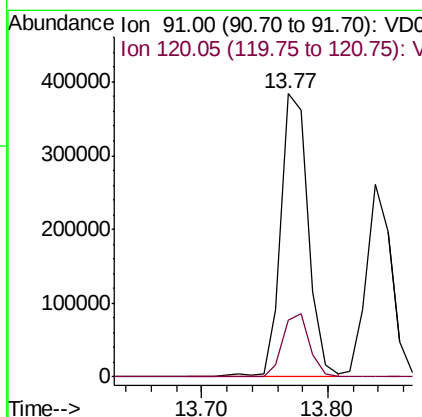
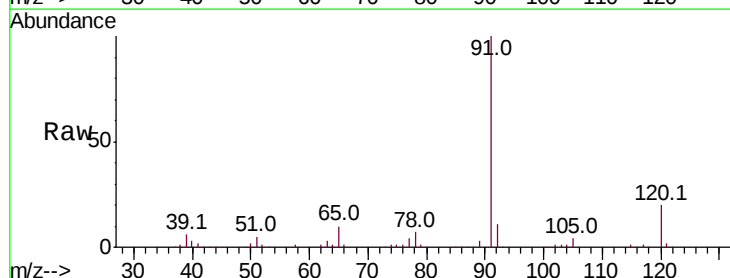
Manual Integrations
APPROVED

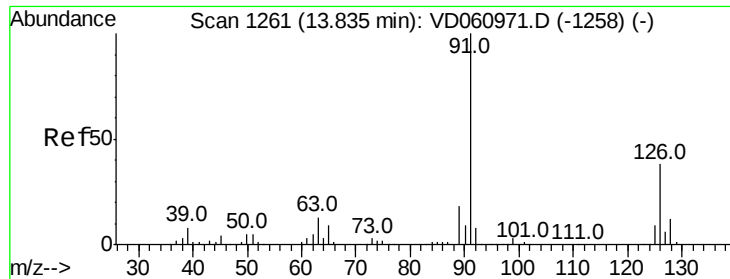
MMDadoda
3/26/2019 2:40:27 PM



#78
n-propylbenzene
Concen: 21.155 ug/l
RT: 13.77 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion: 91 Resp: 581640
Ion Ratio Lower Upper
91 100
120 20.1 10.8 32.3





#79

2-Chlorotoluene

Concen: 23.733 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

ClientSampleId :

VD0323SBSD01

Tot Ion: 91 Resp: 359235

Ion Ratio Lower Upper

91 100

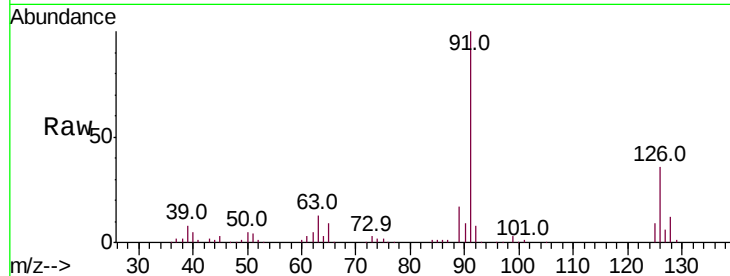
126 35.8 18.6 55.6

Manual Integrations

APPROVED

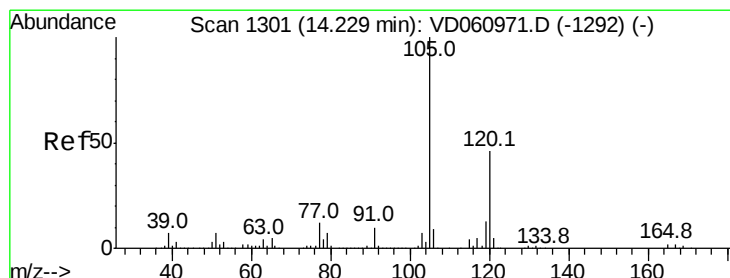
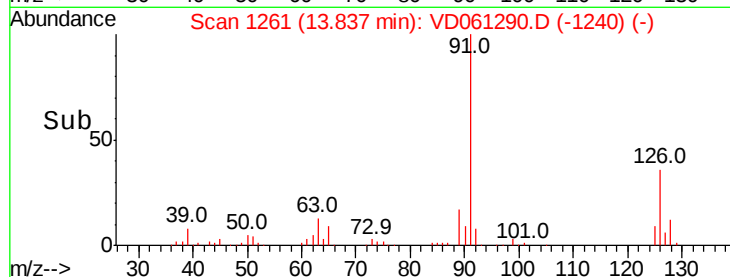
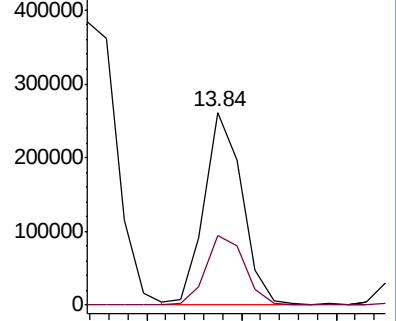
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VD060971.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD060971.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 24.171 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD061290.D

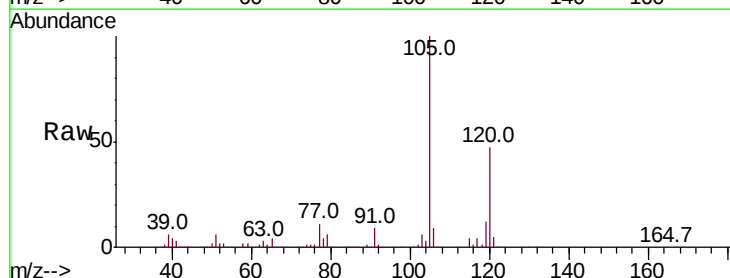
Acq: 23 Mar 2019 19:38

Tgt Ion: 105 Resp: 430937

Ion Ratio Lower Upper

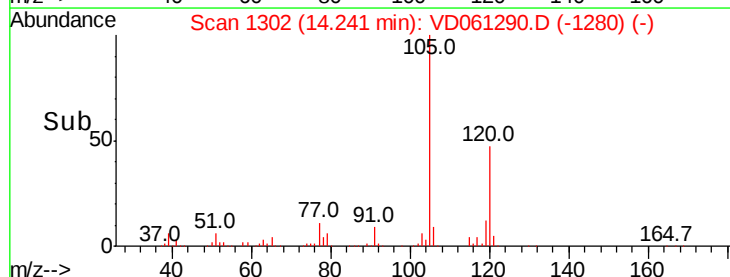
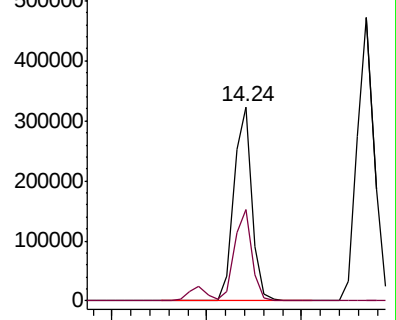
105 100

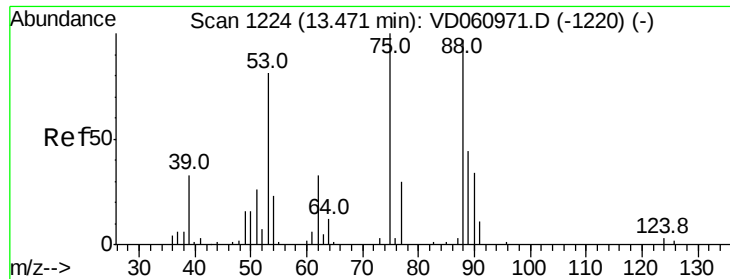
120 47.1 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060971.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD060971.D (-1292) (-)





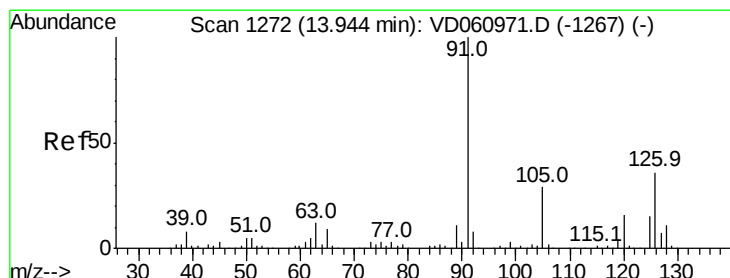
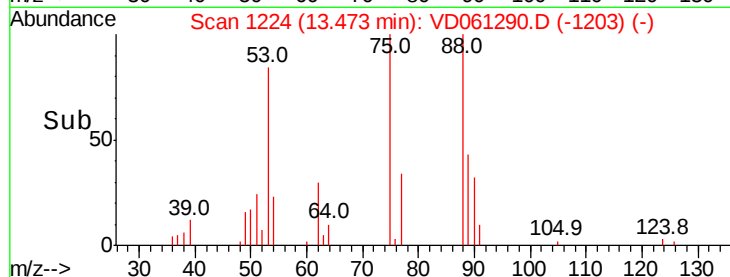
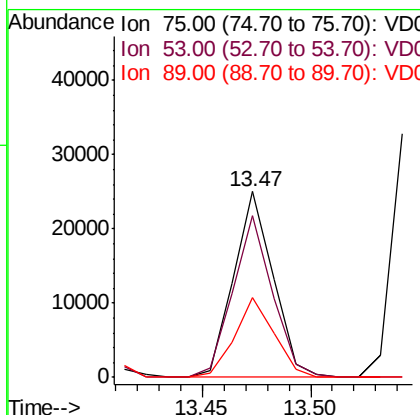
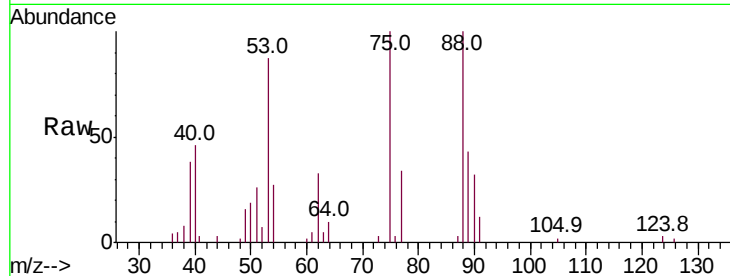
#81
trans-1,4-Dichloro-2-butene
Concen: 23.135 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.4	64.4	96.6
89	42.7	34.8	52.2

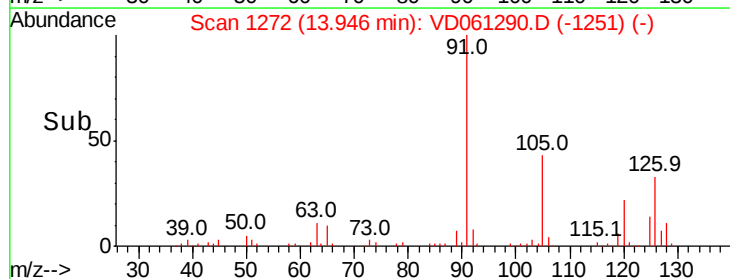
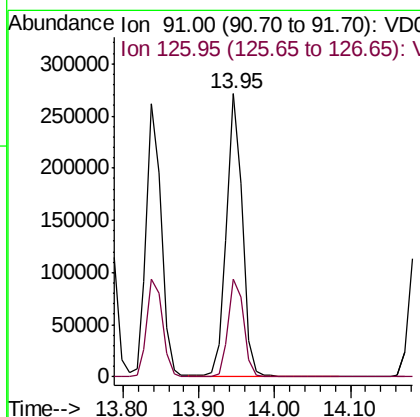
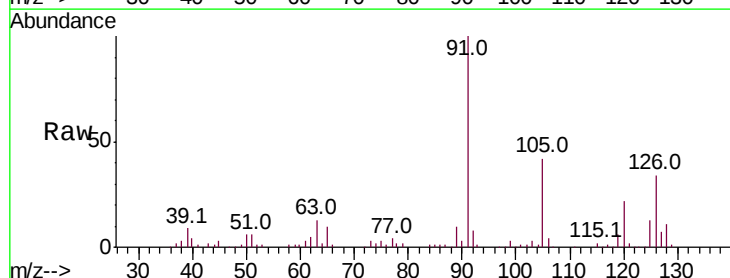
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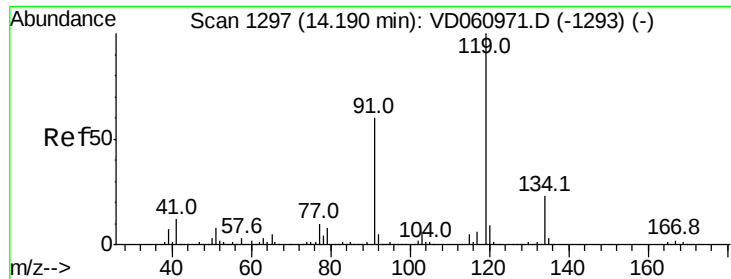
MMDadoda
3/26/2019 2:40:27 PM



#82
4-Chlorotoluene
Concen: 22.211 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	18.0	54.0





#83

tert-Butylbenzene

Concen: 22.626 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

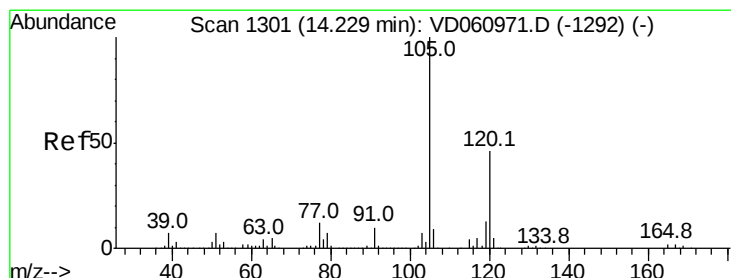
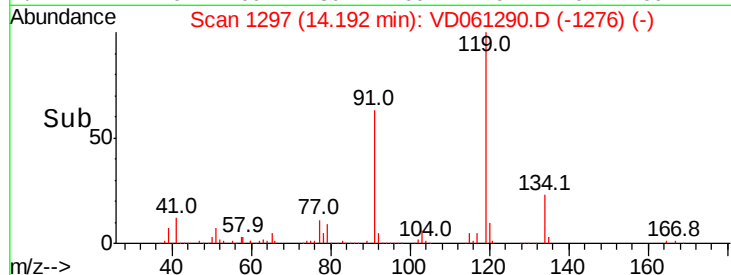
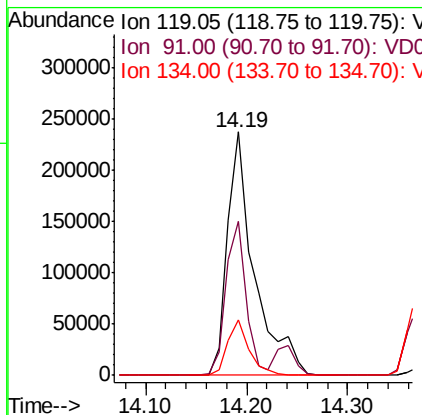
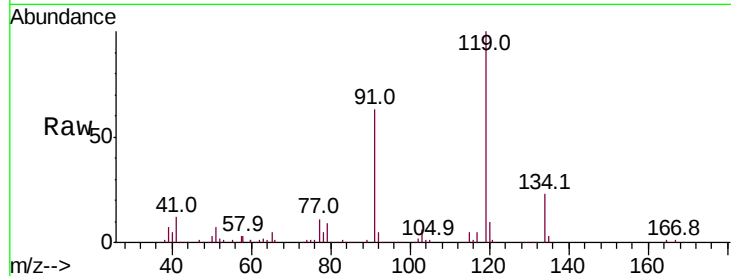
ClientSampleId :

VD0323SBS01

Tot Ion:	119	Resp:	441464
Ion Ratio	Lower	Upper	
119	100		
91	63.3	30.1	90.3
134	23.0	11.6	34.7

Manual Integrations
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3/26/2019 2:40:27 PM



#84

1,2,4-Trimethylbenzene

Concen: 24.171 ug/l

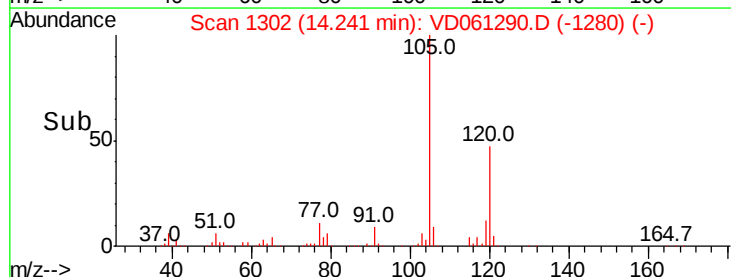
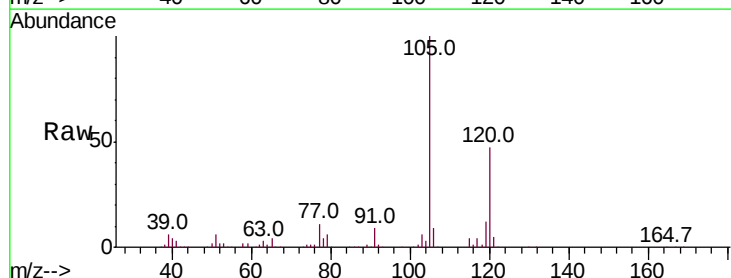
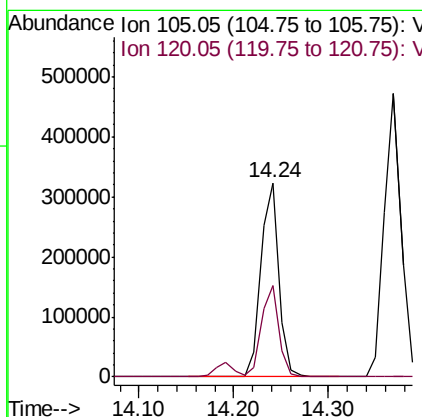
RT: 14.24 min Scan# 1302

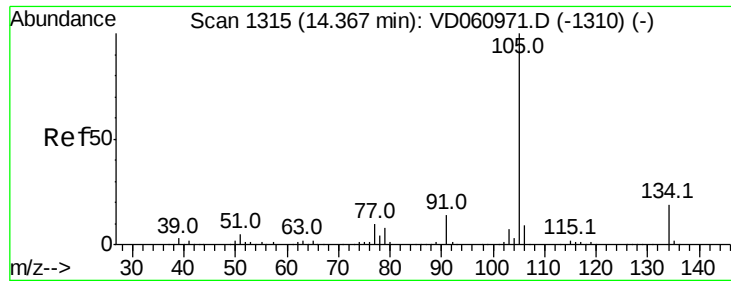
Delta R.T. 0.01 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	105	Resp:	430937
Ion Ratio	Lower	Upper	
105	100		
120	47.1	22.9	68.5





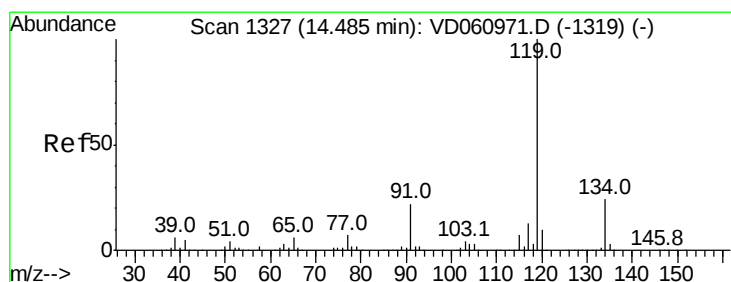
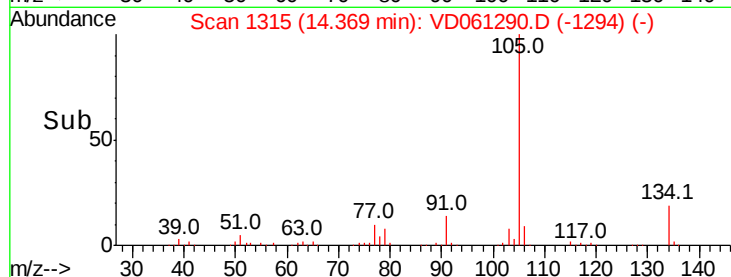
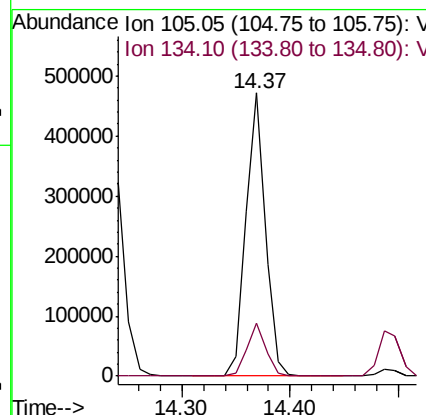
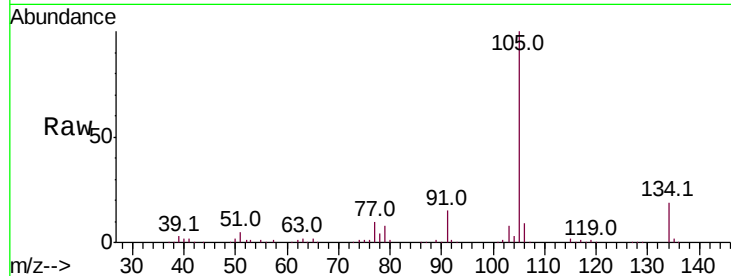
#85
 sec-Butylbenzene
 Concen: 24.620 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0323SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.4	28.2

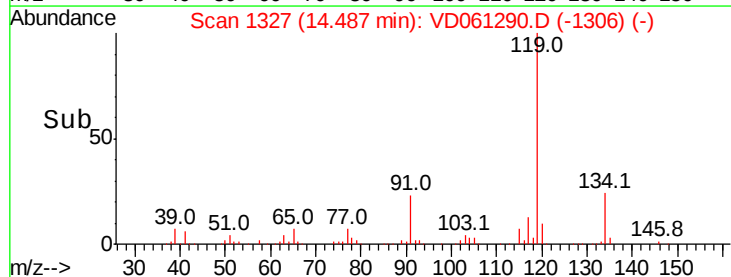
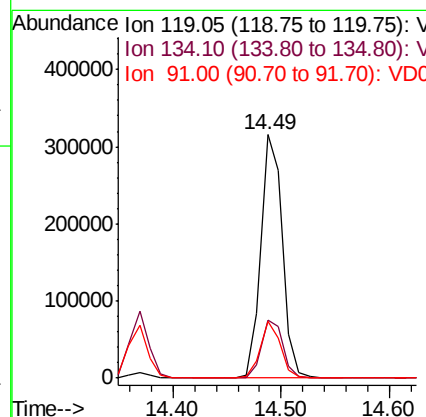
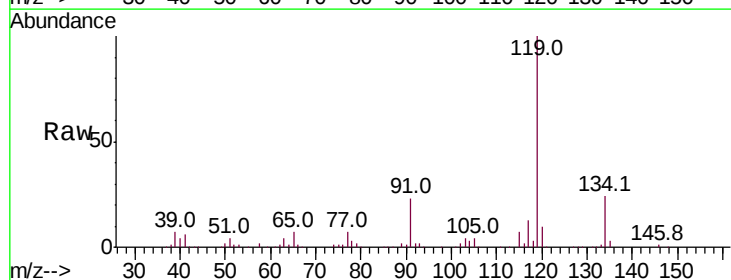
Manual Integrations
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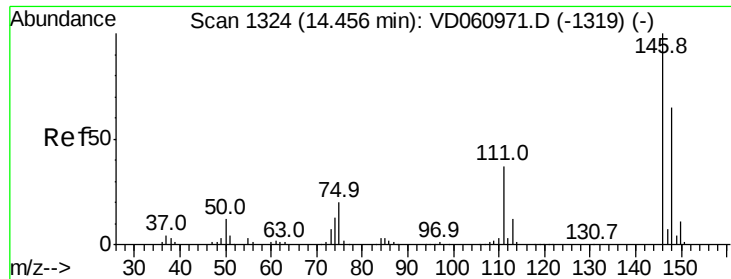
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 22.523 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.7	12.0	36.1
91	23.4	11.2	33.6





#87

1,3-Dichlorobenzene

Concen: 24.483 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Instrument :

MSVOA_D

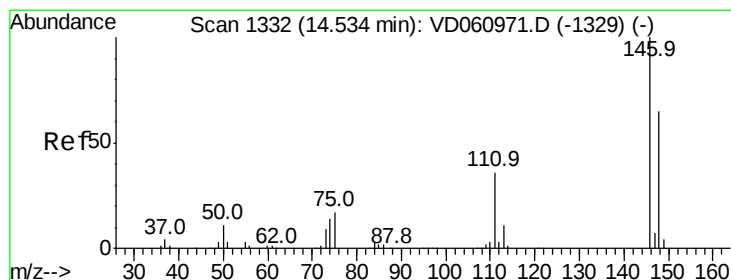
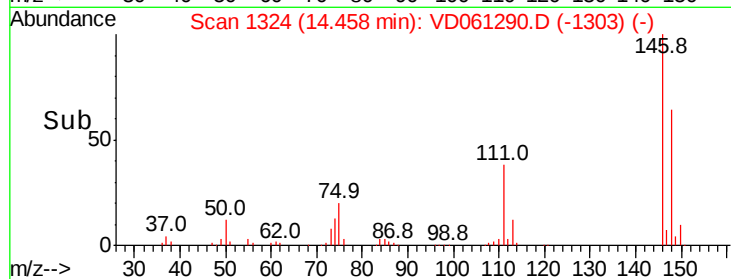
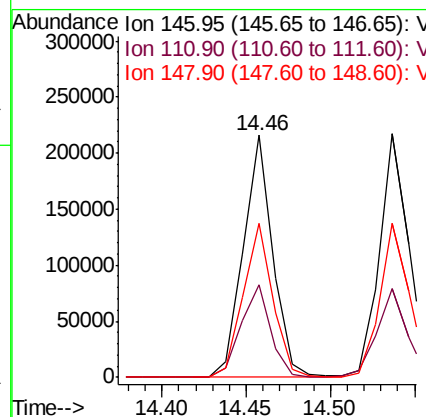
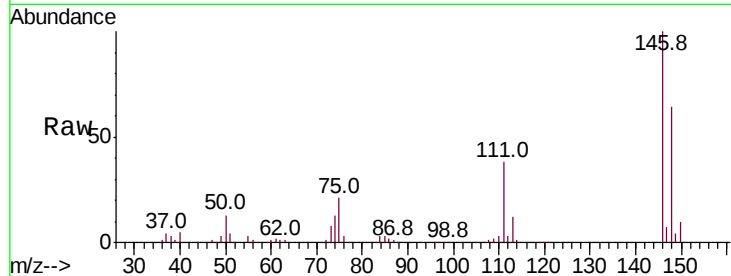
ClientSampleId :

VD0323SBS01

Tot Ion:	146	Resp:	262084
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.4	55.4
148	63.5	32.5	97.4

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 24.919 ug/l

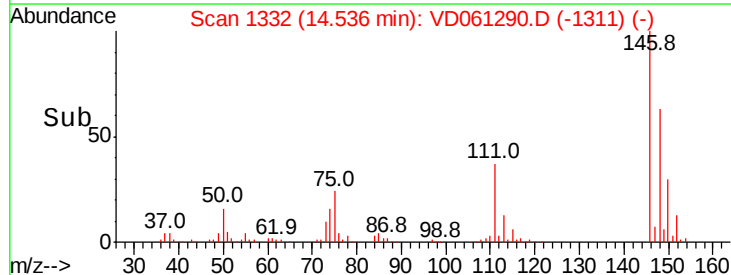
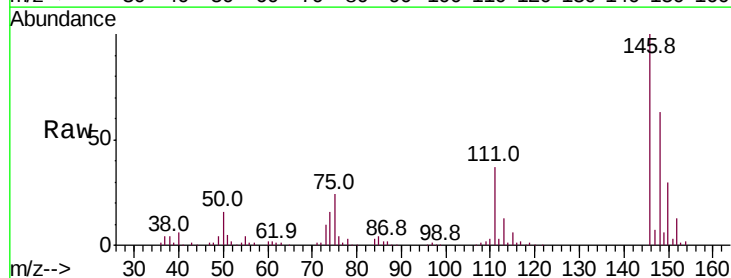
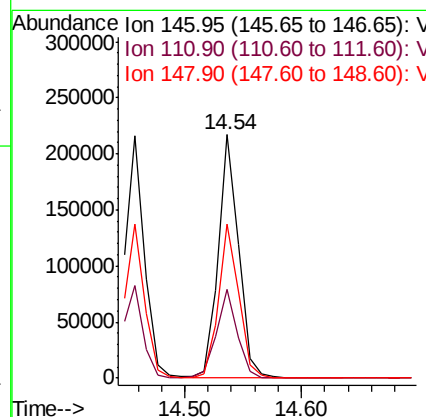
RT: 14.54 min Scan# 1332

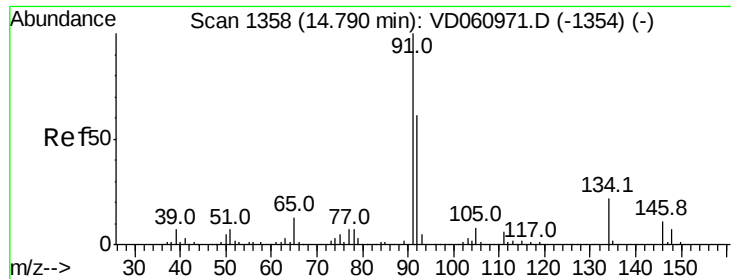
Delta R.T. 0.00 min

Lab File: VD061290.D

Acq: 23 Mar 2019 19:38

Tgt Ion:	146	Resp:	262133
Ion Ratio	Lower	Upper	
146	100		
111	36.5	18.4	55.2
148	63.2	32.5	97.5





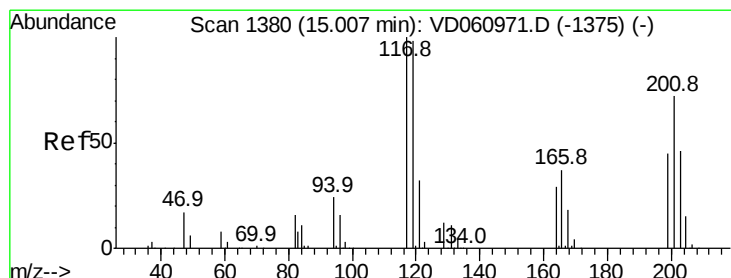
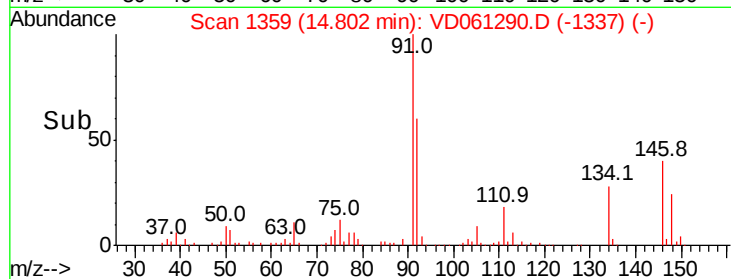
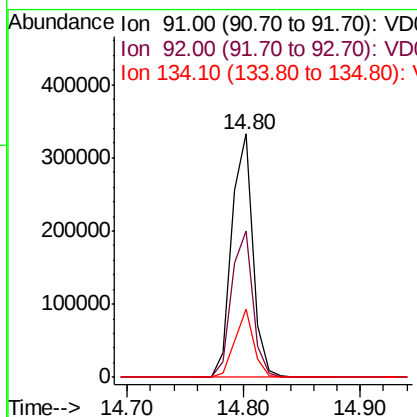
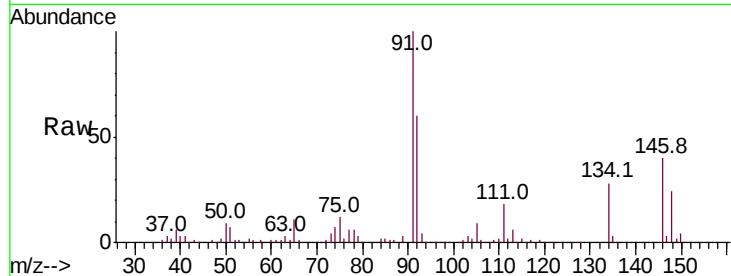
#89
n-Butylbenzene
Concen: 22.396 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	418746		
92	60.0		30.6	91.8
134	28.2		11.0	33.0

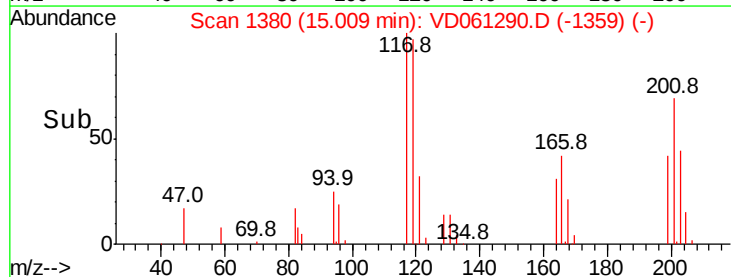
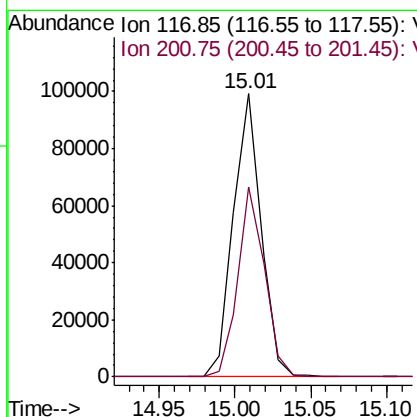
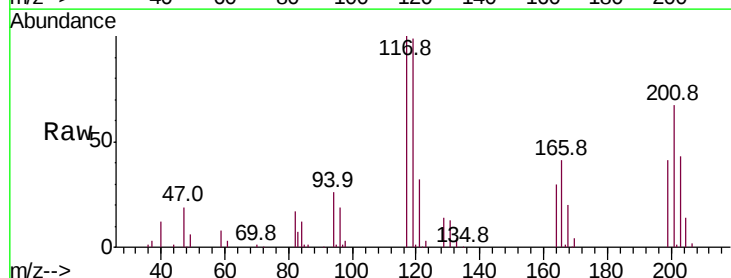
Manual Integrations
APPROVED

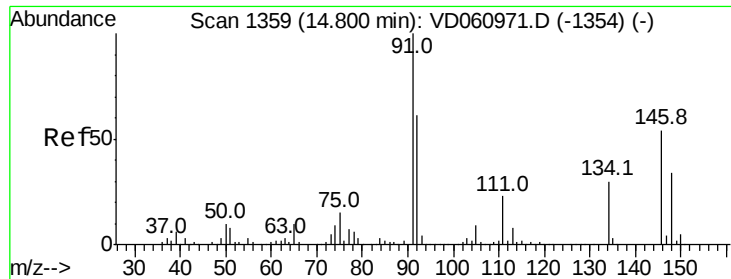
MMDadoda
3/26/2019 2:40:27 PM



#90
Hexachloroethane
Concen: 22.904 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	125924		
201	67.2		36.2	108.6





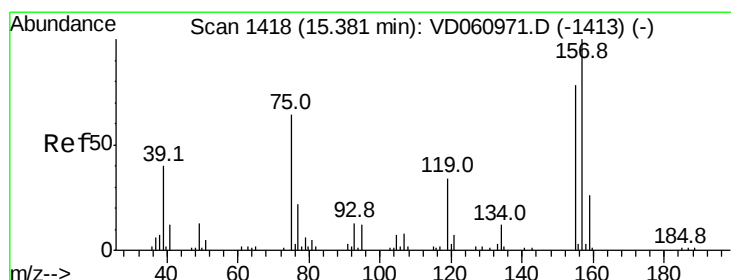
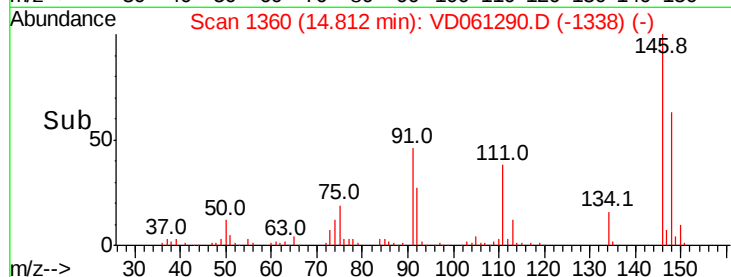
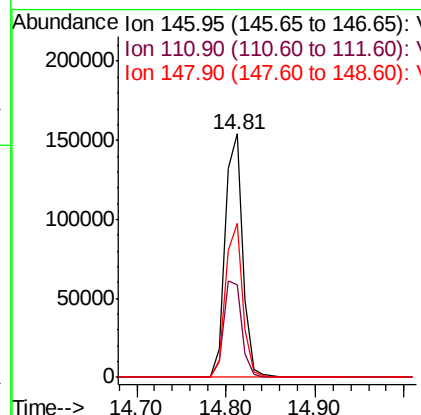
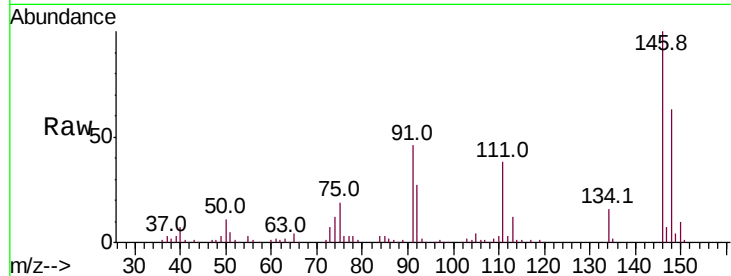
#91
 1,2-Dichlorobenzene
 Concen: 24.127 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	21.5	64.5
148	63.4	30.9	92.8

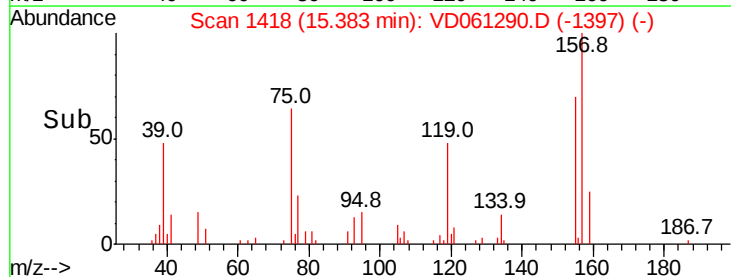
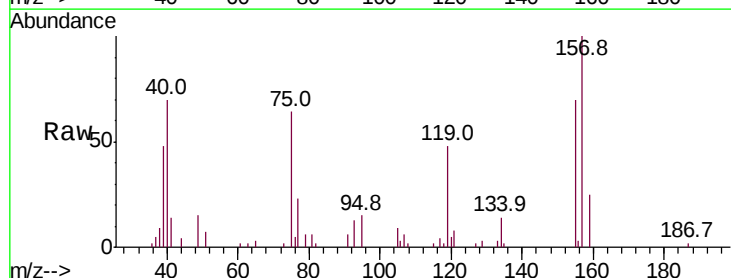
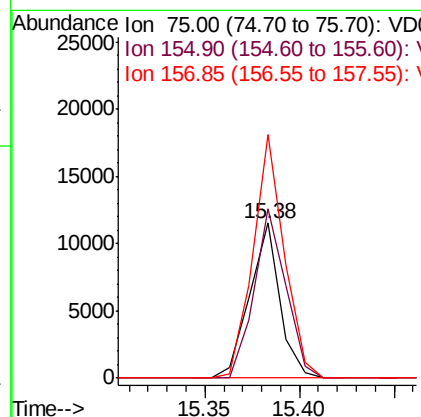
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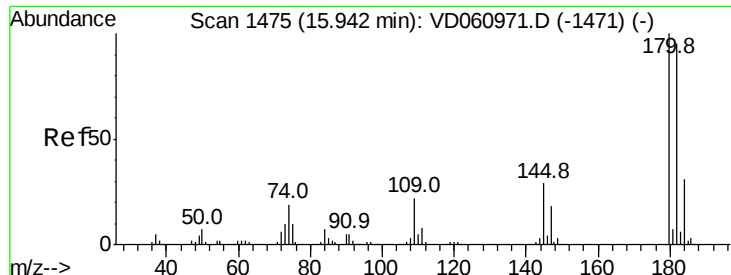
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.097 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	109.1	61.2	183.5
157	156.9	78.3	234.8





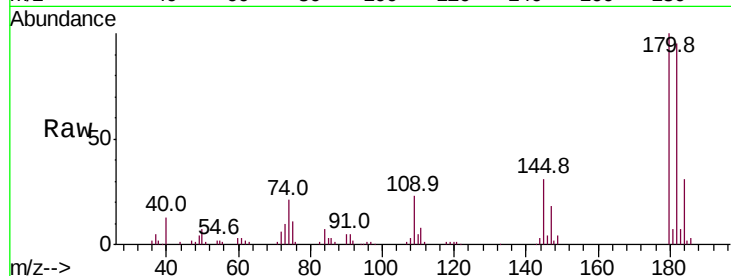
#93
 1,2,4-Trichlorobenzene
 Concen: 23.396 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0323SBSD01

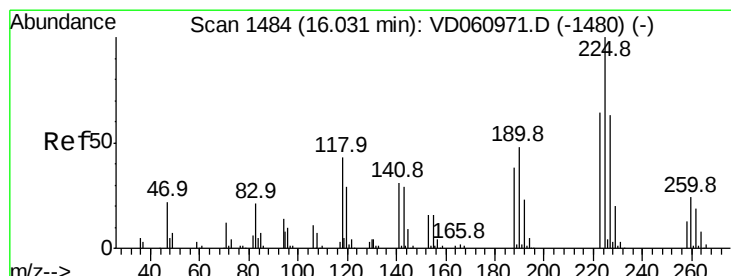
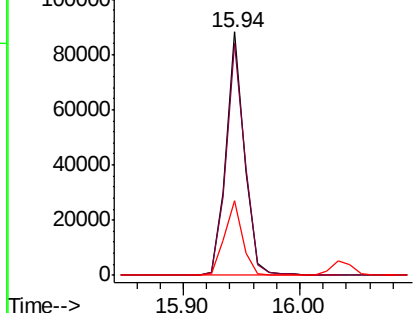
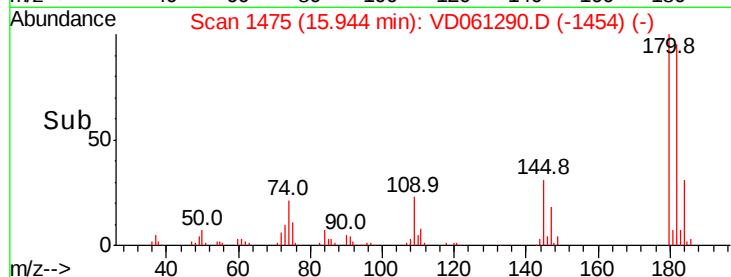
Tot Ion	Ratio	Resp	Lower	Upper
180	100	96860		
182	95.5	47.3	142.0	
145	30.7	14.4	43.0	

Manual Integrations
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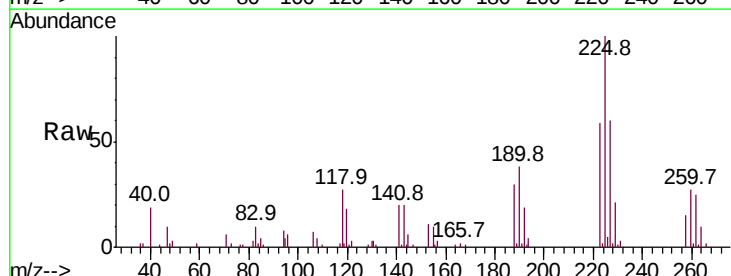


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

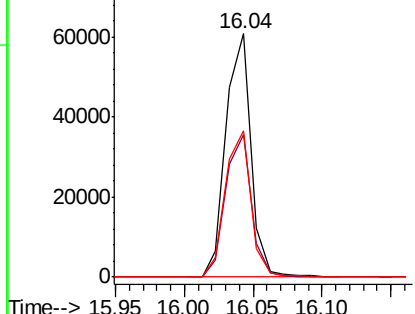
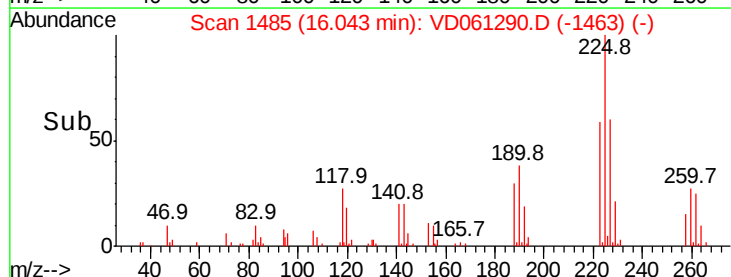


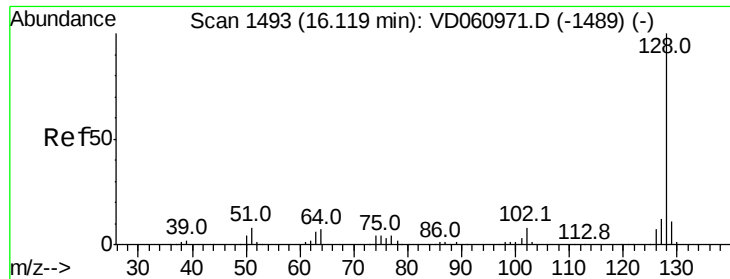
#94
 Hexachlorobutadiene
 Concen: 24.526 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061290.D
 Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	76800		
223	58.7	31.8	95.3	
227	60.2	31.4	94.0	



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





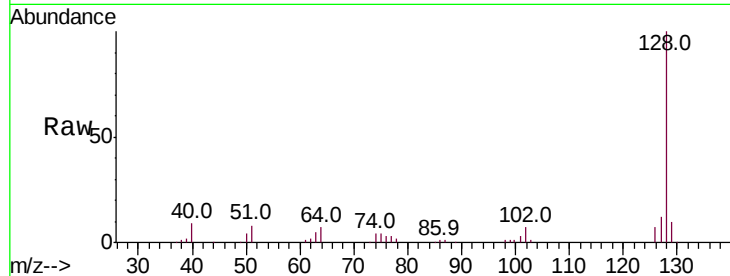
#95
Naphthalene
Concen: 25.285 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Instrument :
MSVOA_D
ClientSampleId :
VD0323SBSD01

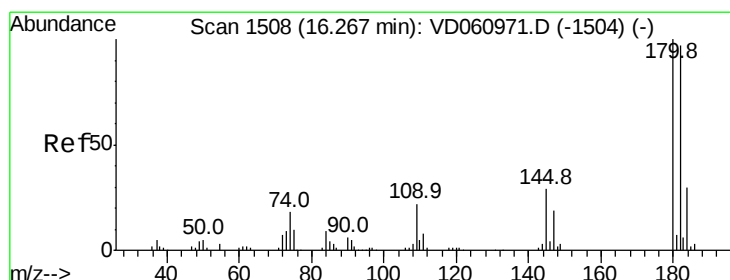
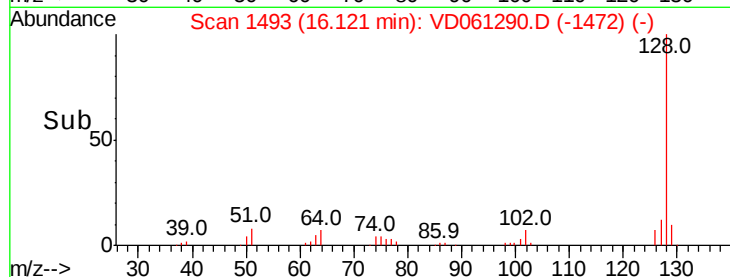
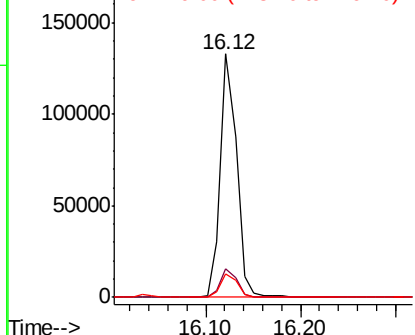
Tot Ion	Ratio	Resp	Lower	Upper
128	100	159075		
127	11.9		9.8	14.8
129	9.6		8.5	12.7

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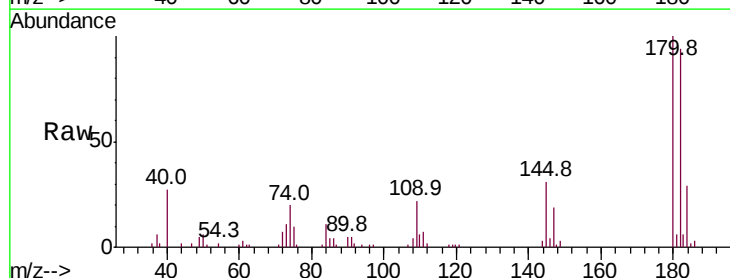


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 23.894 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD061290.D
Acq: 23 Mar 2019 19:38

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	48857		
182	94.2		48.6	145.8
145	30.6		14.3	42.9



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

