

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030719\
 Data File : VD060970.D
 Acq On : 7 Mar 2019 16:03
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 9:46:24 PM

Quant Time: Mar 08 02:17:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 00:56:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	730435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1203906	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1057605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	438574	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	123687	20.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.00%	
35) Dibromofluoromethane	6.92	113	174922	18.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.46%	
50) Toluene-d8	10.40	98	468133	19.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.80%	
62) 4-Bromofluorobenzene	13.55	95	176727	19.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.26%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	162188	20.257	ug/l 96
3) Chloromethane	1.76	50	137516	20.763	ug/l 98
4) Vinyl Chloride	1.86	62	125463	20.844	ug/l 99
5) Bromomethane	2.16	94	20302	19.357	ug/l 83
6) Chloroethane	2.26	64	27369	18.252	ug/l # 83
7) Trichlorofluoromethane	2.53	101	153702	20.667	ug/l 95
8) Diethyl Ether	2.88	74	57154	18.156	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.16	101	202483	21.023	ug/l 99
10) Methyl Iodide	3.32	142	218741	19.183	ug/l 98
11) Tert butyl alcohol	4.06	59	36670	82.744	ug/l 100
12) 1,1-Dichloroethene	3.13	96	161888	19.819	ug/l 99
13) Acrolein	3.04	56	60120	99.032	ug/l 94
14) Allyl chloride	3.62	41	238456	17.646	ug/l 96
15) Acrylonitrile	4.20	53	145457	87.022	ug/l 96
16) Acetone	3.23	43	177480	90.009	ug/l 99
17) Carbon Disulfide	3.39	76	530372	18.281	ug/l 99
18) Methyl Acetate	3.64	43	66755	16.481	ug/l 97
19) Methyl tert-butyl Ether	4.24	73	273010	18.790	ug/l 96
20) Methylene Chloride	3.82	84	179443	16.313	ug/l 99
21) trans-1,2-Dichloroethene	4.22	96	170883	19.034	ug/l 97
22) Diisopropyl ether	5.13	45	514442	18.076	ug/l 96
23) Vinyl Acetate	5.05	43	1342219	89.996	ug/l 97
24) 1,1-Dichloroethane	4.98	63	284040	18.560	ug/l 98
25) 2-Butanone	6.06	43	198443	81.844	ug/l 98
26) 2,2-Dichloropropane	6.02	77	219415	19.293	ug/l 97
27) cis-1,2-Dichloroethene	6.03	96	178358	17.636	ug/l 98
28) Bromochloromethane	6.44	49	107550	16.911	ug/l 94
29) Tetrahydrofuran	6.46	42	108637	85.661	ug/l 99
30) Chloroform	6.66	83	294349	19.877	ug/l 97
31) Cyclohexane	6.96	56	207782	15.999	ug/l 98
32) 1,1,1-Trichloroethane	6.87	97	253745	19.922	ug/l 98
36) 1,1-Dichloropropene	7.14	75	232324	21.046	ug/l 98
37) Ethyl Acetate	6.18	43	103792	18.403	ug/l 97
38) Carbon Tetrachloride	7.11	117	255281	21.337	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	221679	18.426	ug/l	97
40) Benzene	7.45	78	568369	19.953	ug/l	98
41) Methacrylonitrile	6.45	41	119821	29.639	ug/l #	91
42) 1,2-Dichloroethane	7.58	62	162027	20.095	ug/l	97
43) Isopropyl Acetate	9.23	43	150942	19.232	ug/l #	97
44) Trichloroethene	8.53	130	184580	19.097	ug/l	98
45) 1,2-Dichloropropane	8.94	63	148632	19.857	ug/l	99
46) Dibromomethane	9.06	93	89783	18.749	ug/l	96
47) Bromodichloromethane	9.37	83	202599	19.062	ug/l	95
48) Methyl methacrylate	9.12	41	78089	17.598	ug/l	96
49) 1,4-Dioxane	9.08	88	14827	325.569	ug/l	96
51) 4-Methyl-2-Pentanone	10.30	43	456200	95.196	ug/l	98
52) Toluene	10.50	92	322905	17.812	ug/l	95
53) t-1,3-Dichloropropene	10.91	75	187791	19.447	ug/l	98
54) cis-1,3-Dichloropropene	10.03	75	238029	20.097	ug/l	97
55) 1,1,2-Trichloroethane	11.18	97	110854	18.494	ug/l	96
56) Ethyl methacrylate	11.03	69	114529	18.203	ug/l	96
57) 1,3-Dichloropropane	11.40	76	174186	20.101	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.85	63	293059	86.992	ug/l	100
59) 2-Hexanone	11.53	43	344228	102.365	ug/l	99
60) Dibromochloromethane	11.67	129	170362	19.672	ug/l	99
61) 1,2-Dibromoethane	11.80	107	129815	18.431	ug/l	98
64) Tetrachloroethene	11.25	164	144061	18.017	ug/l	96
65) Chlorobenzene	12.39	112	432103	18.656	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.50	131	160545	19.161	ug/l	98
67) Ethyl Benzene	12.52	91	675871	19.945	ug/l	99
68) m/p-Xylenes	12.66	106	496347	36.524	ug/l	93
69) o-Xylene	13.04	106	258181	20.429	ug/l	91
70) Styrene	13.06	104	427534	20.268	ug/l	99
71) Bromoform	13.23	173	97777	18.543	ug/l	96
73) Isopropylbenzene	13.40	105	695924	20.762	ug/l	98
74) N-amyl acetate	13.26	43	190678	18.818	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.69	83	130176	18.714	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	130029	18.393	ug/l	99
77) Bromobenzene	13.66	156	165252	18.760	ug/l	91
78) n-propylbenzene	13.77	91	772713	19.748	ug/l	99
79) 2-Chlorotoluene	13.83	91	460935	21.047	ug/l	93
80) 1,3,5-Trimethylbenzene	14.23	105	534082	20.622	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.47	75	41447	19.888	ug/l	95
82) 4-Chlorotoluene	13.94	91	524484	21.324	ug/l	94
83) tert-Butylbenzene	14.18	119	592045m	20.535	ug/l	
84) 1,2,4-Trimethylbenzene	14.23	105	534082	20.622	ug/l	100
85) sec-Butylbenzene	14.36	105	725598	21.567	ug/l	96
86) p-Isopropyltoluene	14.49	119	555771	20.051	ug/l	96
87) 1,3-Dichlorobenzene	14.45	146	302764	20.221	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	313305	21.146	ug/l	97
89) n-Butylbenzene	14.80	91	521630	20.108	ug/l	97
90) Hexachloroethane	15.00	117	151225	18.923	ug/l	77
91) 1,2-Dichlorobenzene	14.81	146	257120	19.688	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	14583	17.847	ug/l	88

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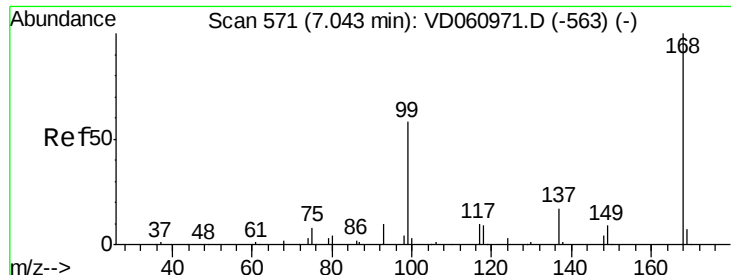
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	123011	16.701	ug/l	98
94) Hexachlorobutadiene	16.04	225	95084	20.195	ug/l	97
95) Naphthalene	16.12	128	192064	16.876	ug/l	97
96) 1,2,3-Trichlorobenzene	16.26	180	60293	15.090	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 730435

Ion Ratio Lower Upper

168 100

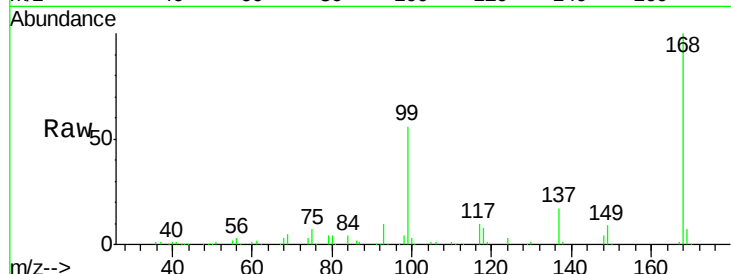
99 55.6 47.3 70.9

Manual Integrations

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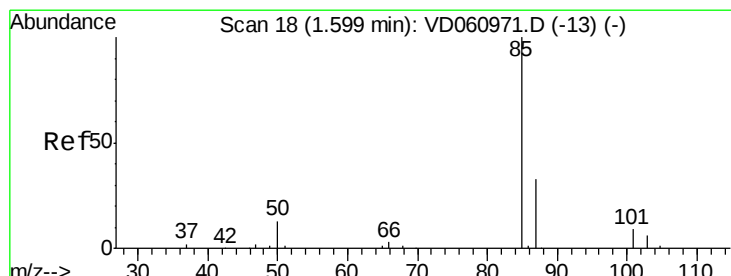
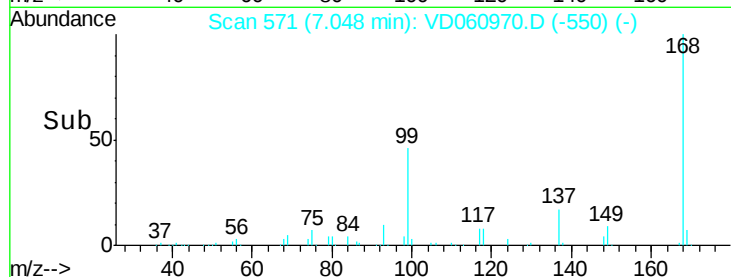
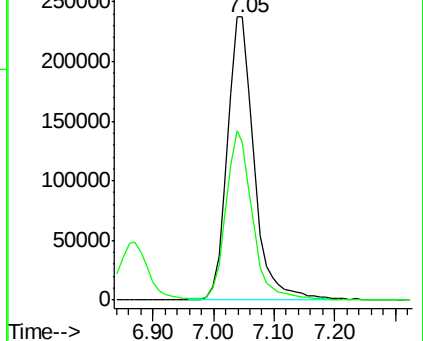
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 20.257 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.00 min

Lab File: VD060970.D

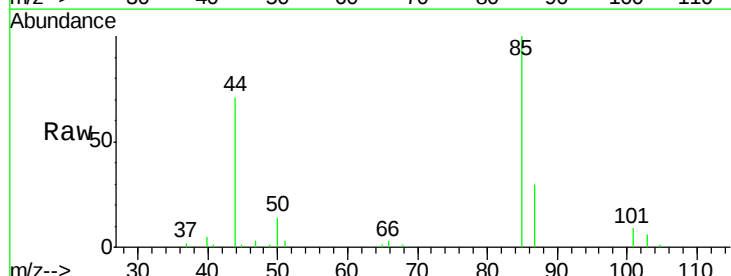
Acq: 7 Mar 2019 16:03

Tgt Ion: 85 Resp: 162188

Ion Ratio Lower Upper

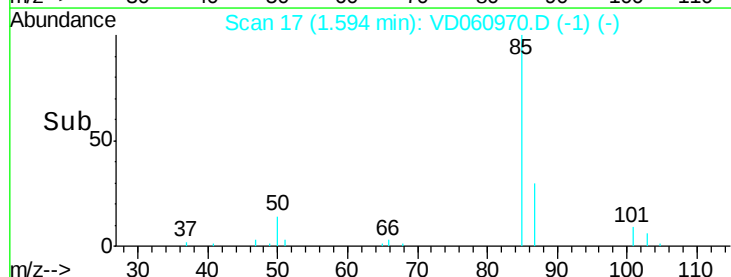
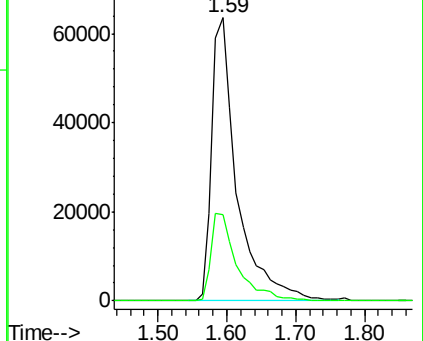
85 100

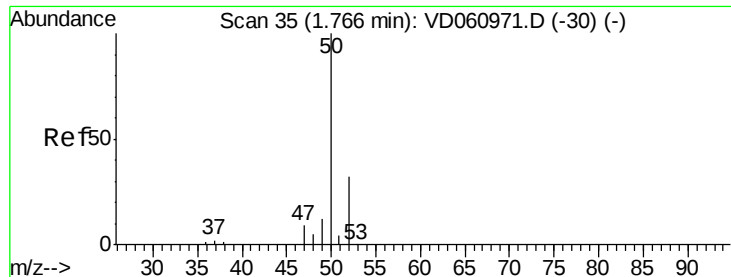
87 30.4 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.763 ug/l

RT: 1.76 min Scan# 34

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 137516

Ion Ratio Lower Upper

50 100

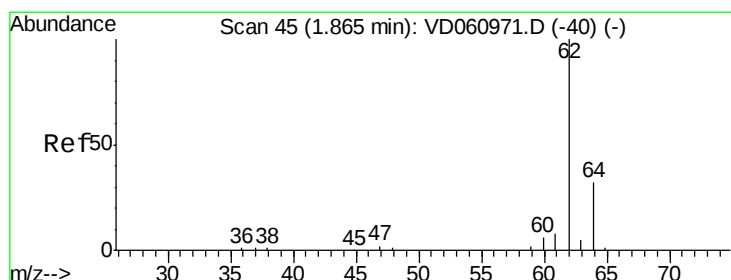
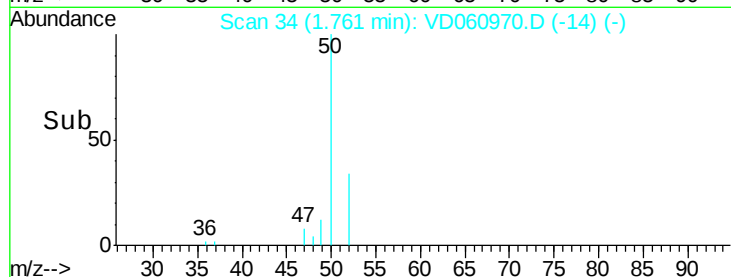
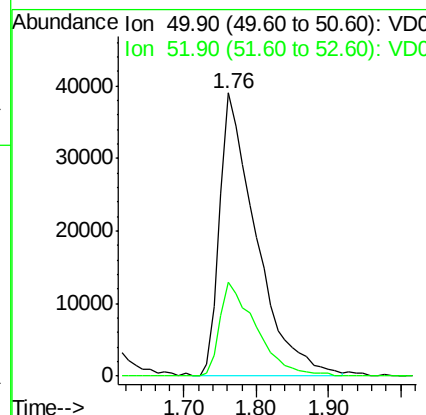
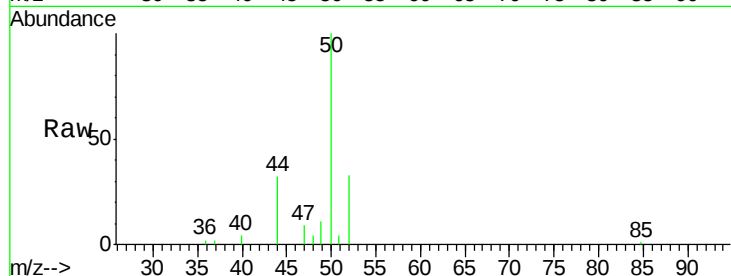
52 33.2 25.8 38.8

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#4

Vinyl Chloride

Concen: 20.844 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.00 min

Lab File: VD060970.D

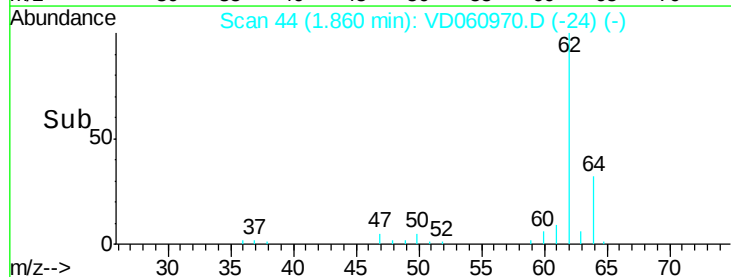
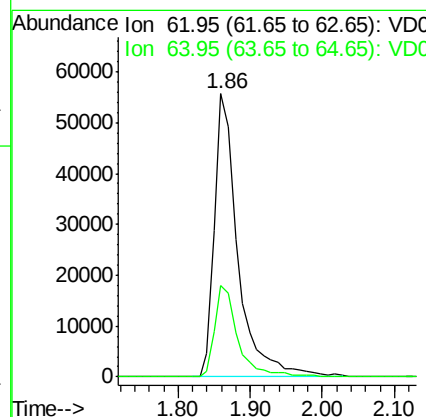
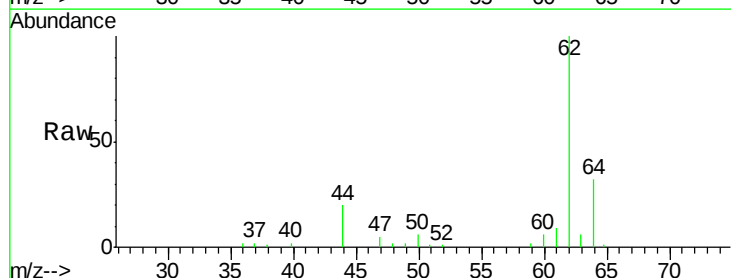
Acq: 7 Mar 2019 16:03

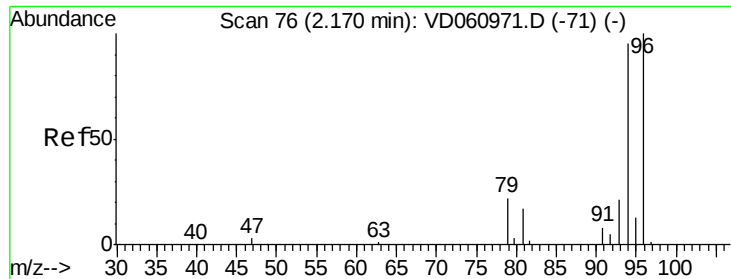
Tgt Ion: 62 Resp: 125463

Ion Ratio Lower Upper

62 100

64 32.1 25.2 37.8





#5

Bromomethane

Concen: 19.357 ug/l

RT: 2.16 min Scan# 74

Delta R.T. -0.01 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

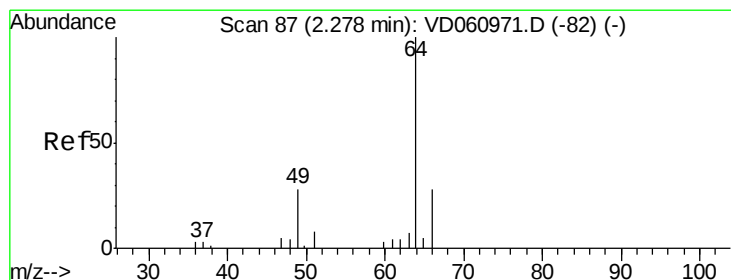
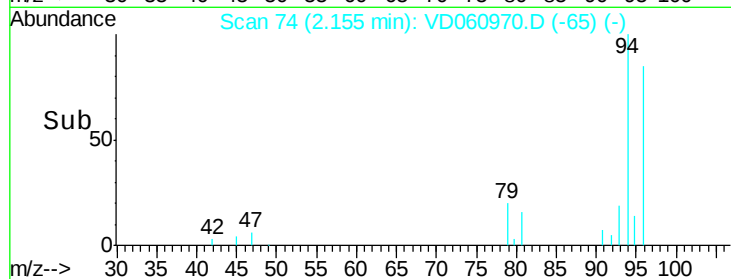
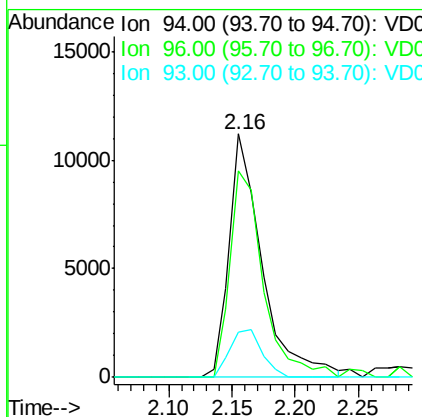
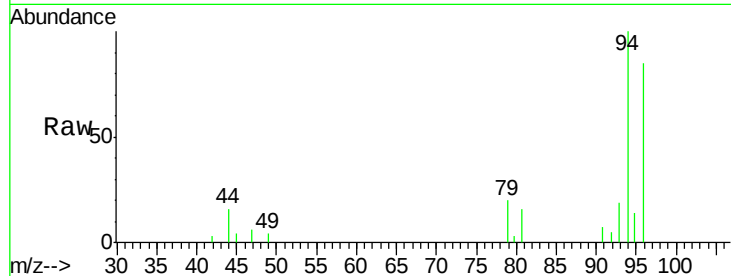
ClientSampleId :

VSTDIC020

Tot Ion:	94	Resp:	20302
Ion	Ratio	Lower	Upper
94	100		
96	85.0	84.0	126.0
93	18.6	17.3	25.9

Manual Integrations
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#6

Chloroethane

Concen: 18.252 ug/l

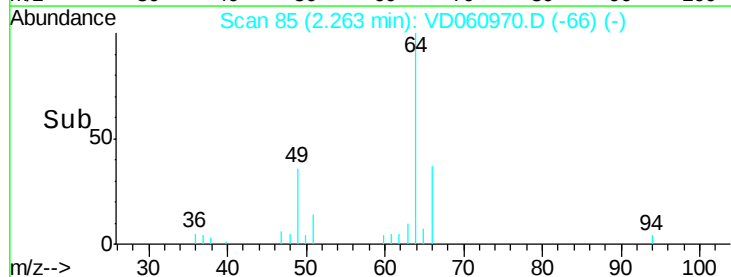
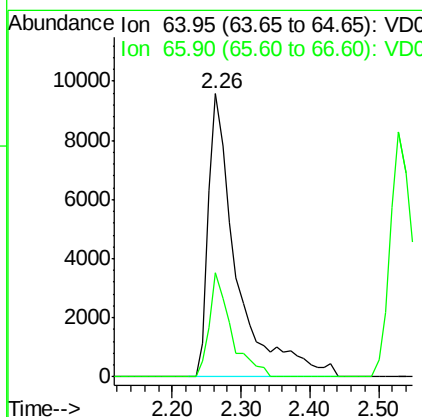
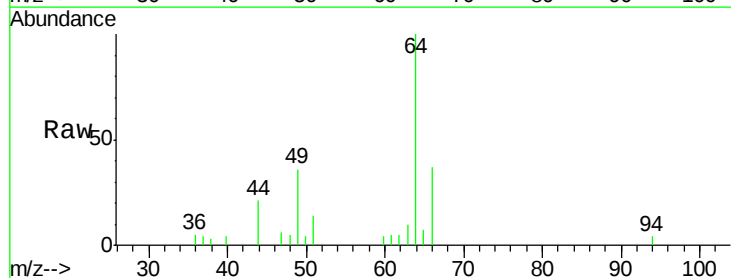
RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	64	Resp:	27369
Ion	Ratio	Lower	Upper
64	100		
66	36.7	22.2	33.2#





#7

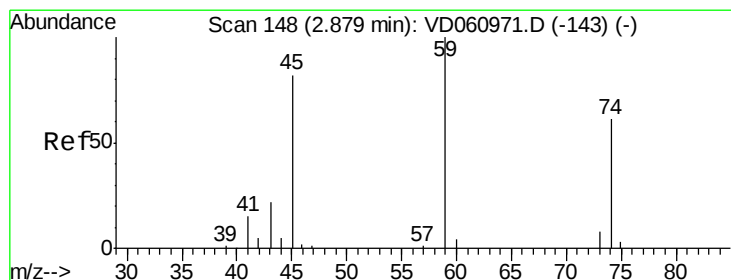
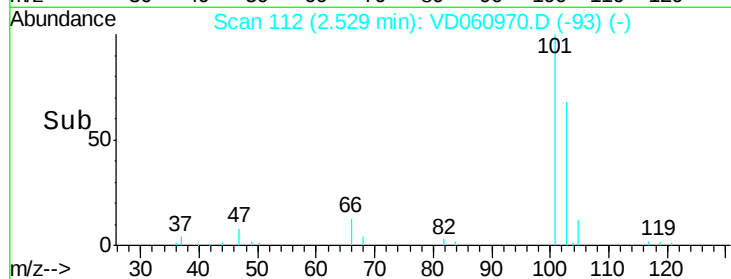
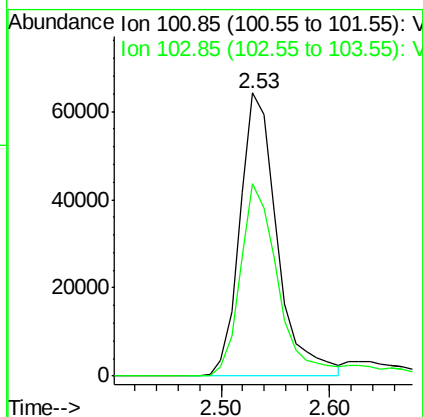
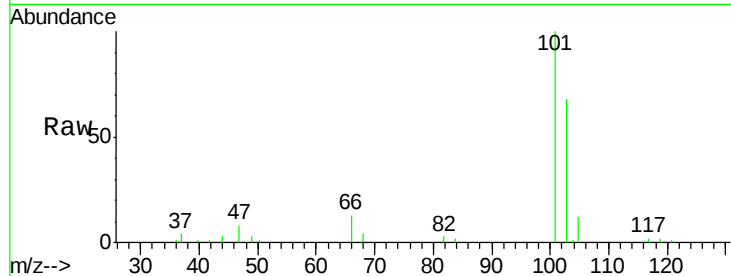
Trichlorofluoromethane
Concen: 20.667 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.01 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
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ClientSampleId :
VSTDIC020

Tot Ion:101 Resp: 153702
Ion Ratio Lower Upper
101 100
103 67.9 51.2 76.8

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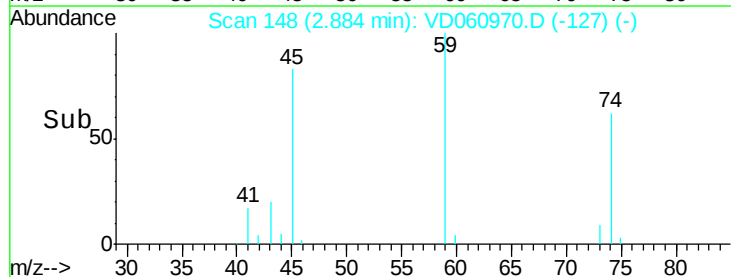
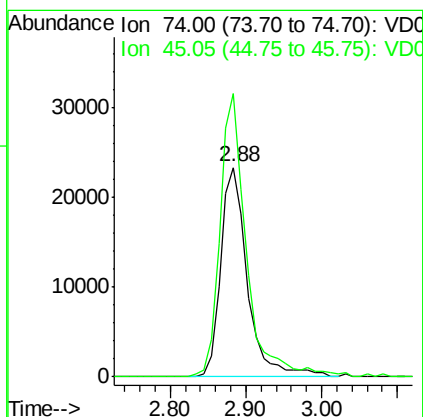
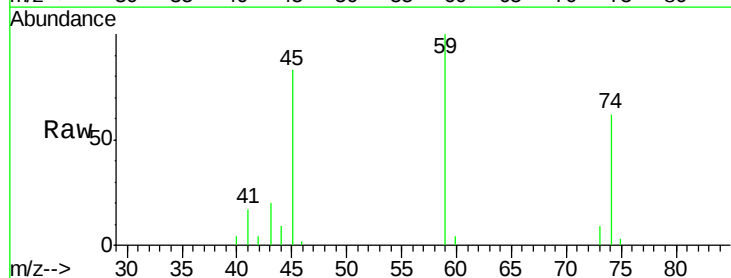
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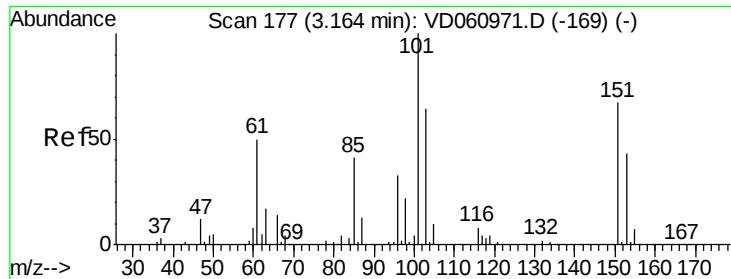


#8

Diethyl Ether
Concen: 18.156 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 74 Resp: 57154
Ion Ratio Lower Upper
74 100
45 135.1 67.0 201.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.023 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

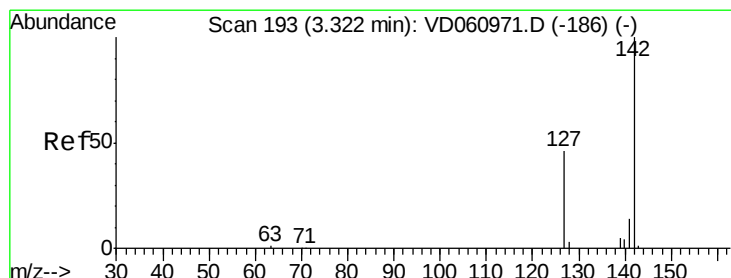
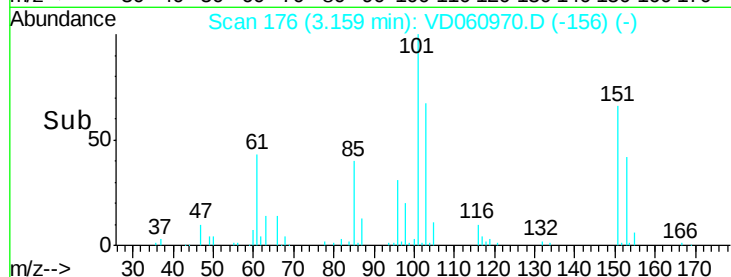
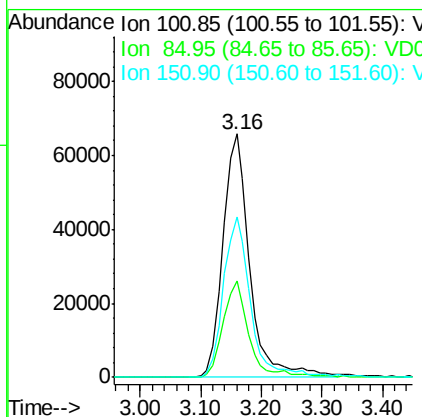
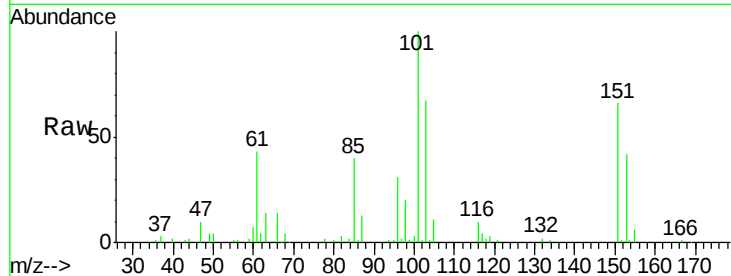
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	202483
Ion Ratio	Lower	Upper	
101	100		
85	39.7	32.5	48.7
151	66.1	53.3	79.9

Manual Integrations
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#10

Methyl Iodide

Concen: 19.183 ug/l

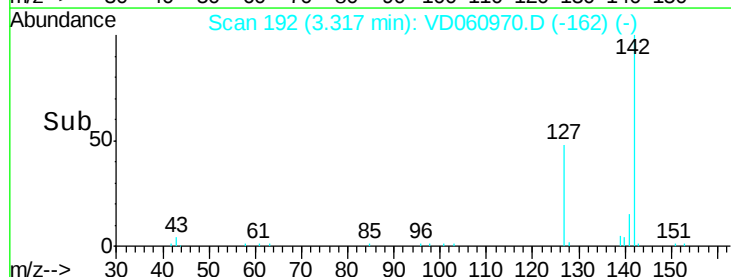
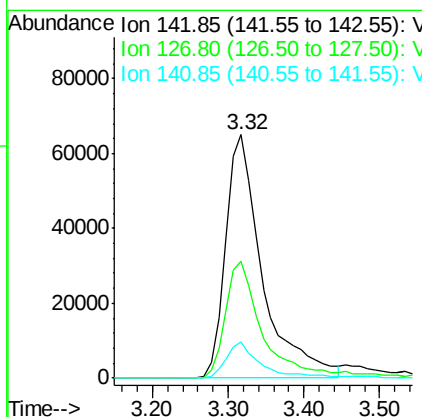
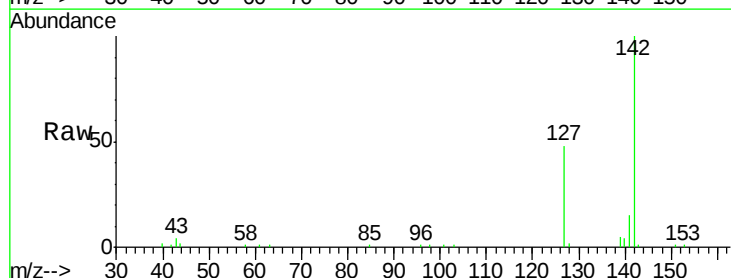
RT: 3.32 min Scan# 192

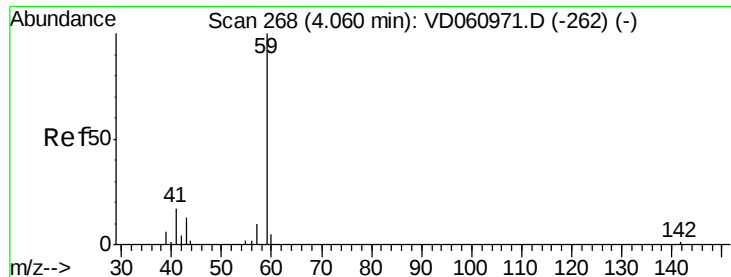
Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	142	Resp:	218741
Ion Ratio	Lower	Upper	
142	100		
127	47.8	36.8	55.2
141	14.6	11.2	16.8





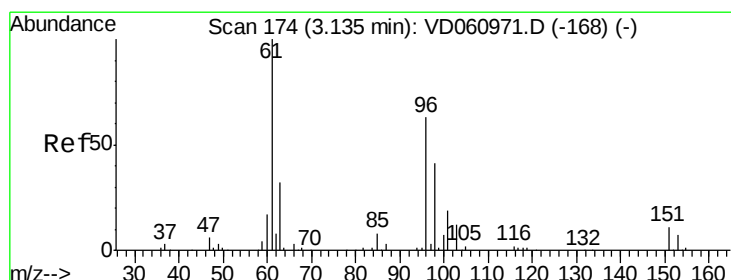
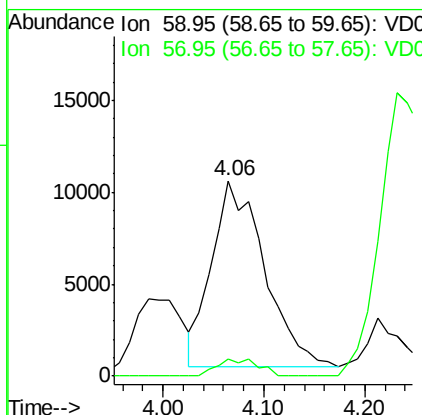
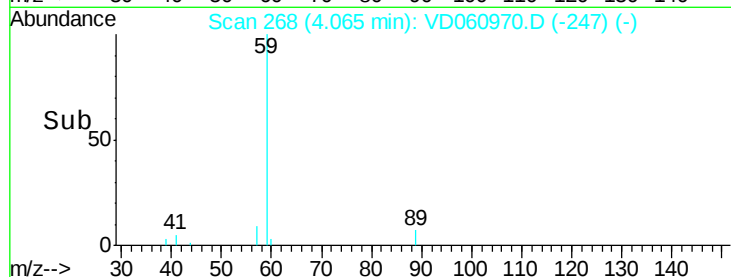
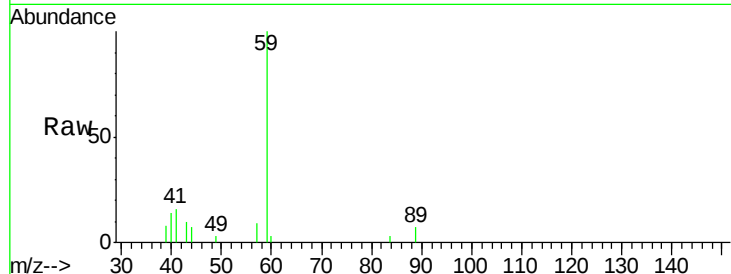
#11
Tert butyl alcohol
Concen: 82.744 ug/l
RT: 4.06 min Scan# 268
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 59 Resp: 36670
Ion Ratio Lower Upper
59 100
57 9.0 7.1 10.7

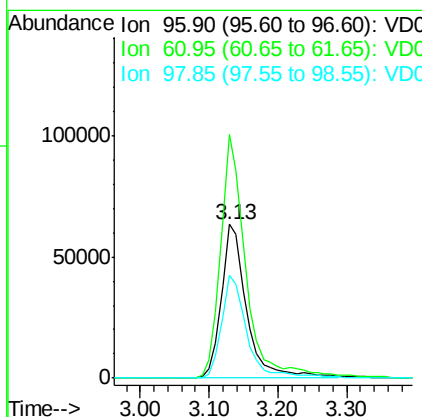
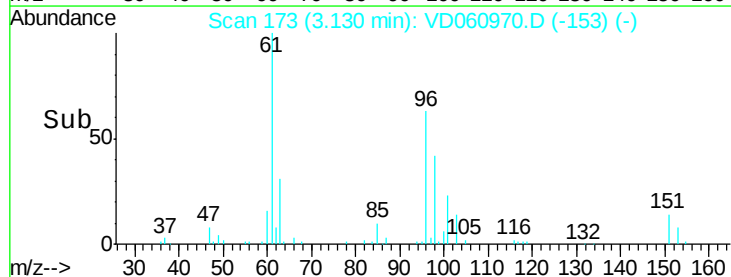
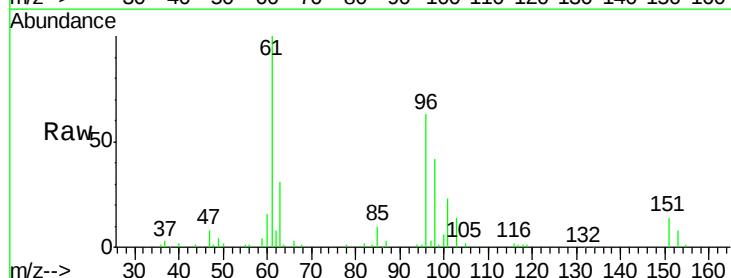
Manual Integrations
APPROVED

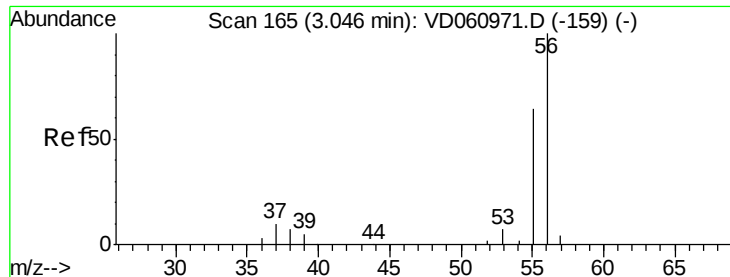
MMDadoda
3/8/2019 9:46:24 PM



#12
1,1-Dichloroethene
Concen: 19.819 ug/l
RT: 3.13 min Scan# 173
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 96 Resp: 161888
Ion Ratio Lower Upper
96 100
61 158.6 127.1 190.7
98 67.0 51.5 77.3





#13

Acrolein

Concen: 99.032 ug/l

RT: 3.04 min Scan# 164

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 60120

Ion Ratio Lower Upper

56 100

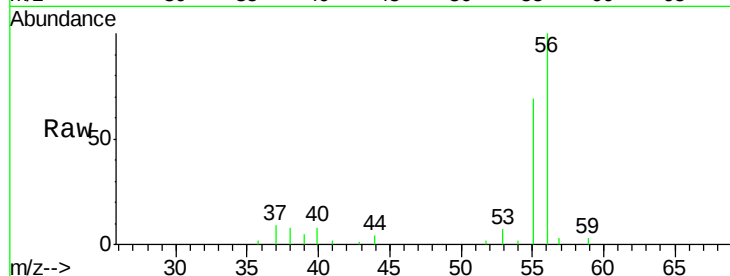
55 69.2 51.3 76.9

Manual Integrations

APPROVED

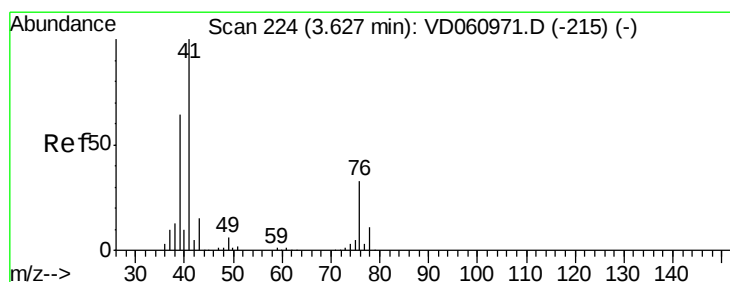
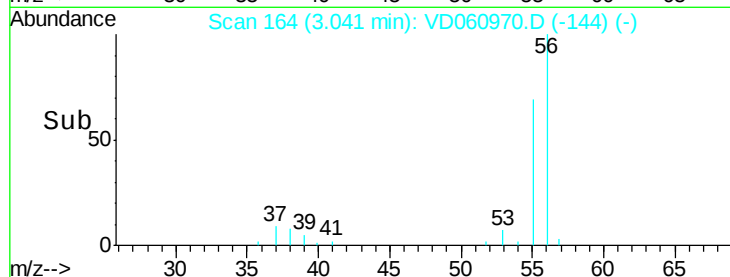
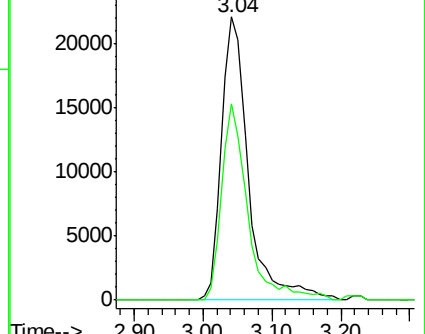
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 17.646 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

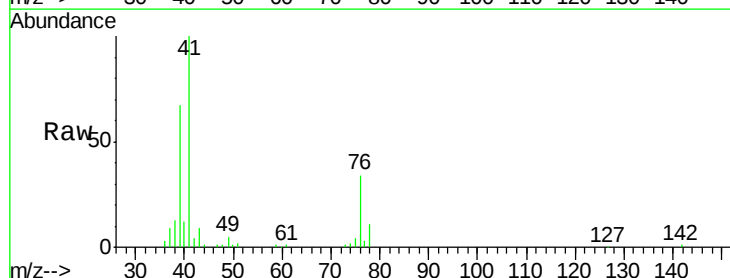
Tgt Ion: 41 Resp: 238456

Ion Ratio Lower Upper

41 100

39 67.3 51.1 76.7

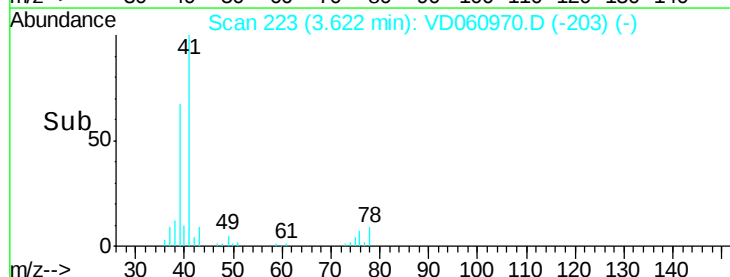
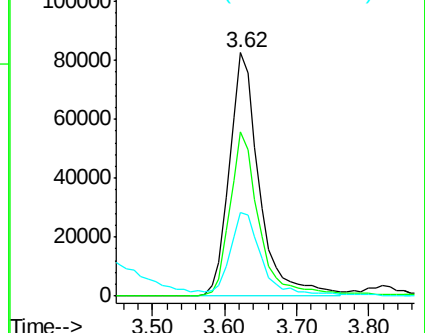
76 34.3 29.1 43.7

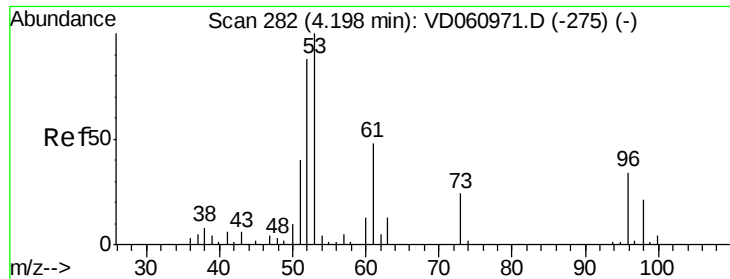


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 87.022 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

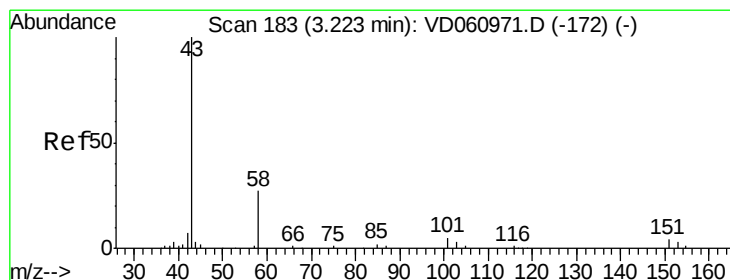
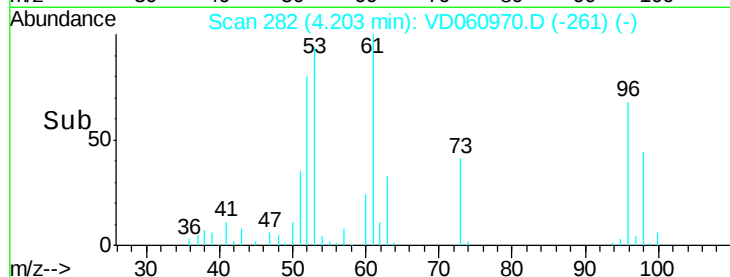
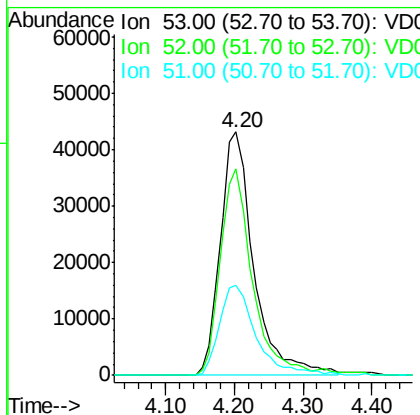
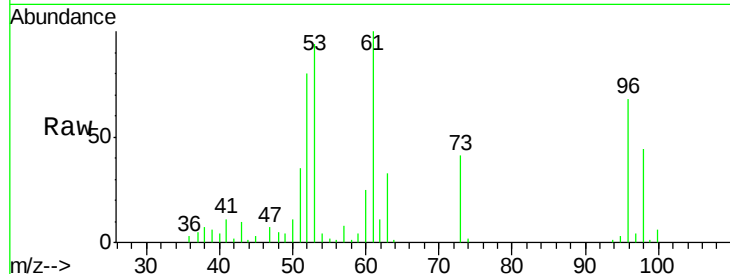
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	145457
Ion	Ratio	Lower	Upper
53	100		
52	84.9	70.2	105.4
51	36.9	31.7	47.5

Manual Integrations
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#16

Acetone

Concen: 90.009 ug/l

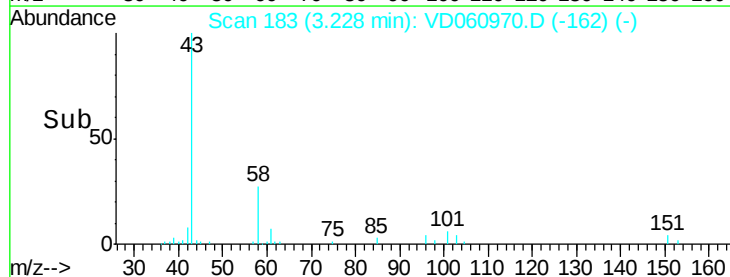
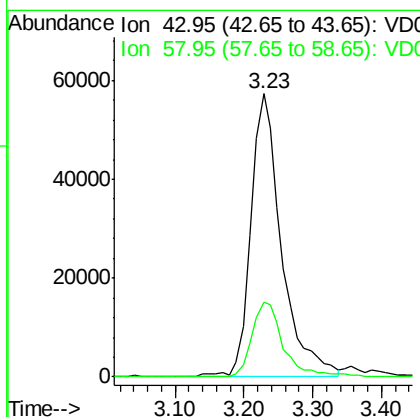
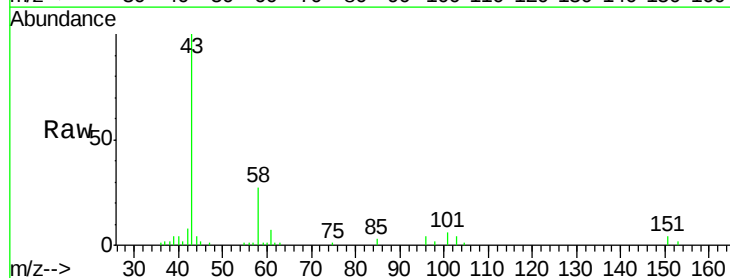
RT: 3.23 min Scan# 183

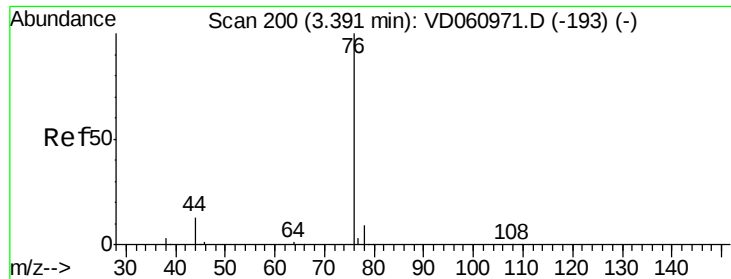
Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	43	Resp:	177480
Ion	Ratio	Lower	Upper
43	100		
58	26.6	21.6	32.4





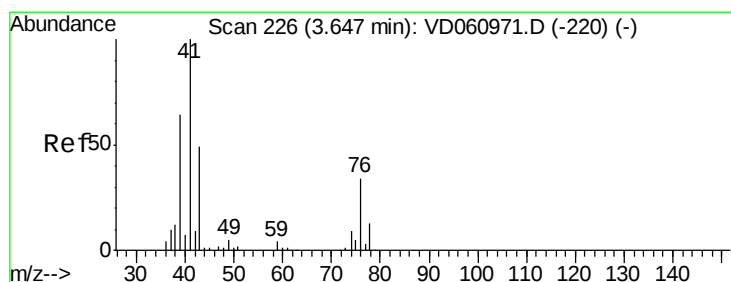
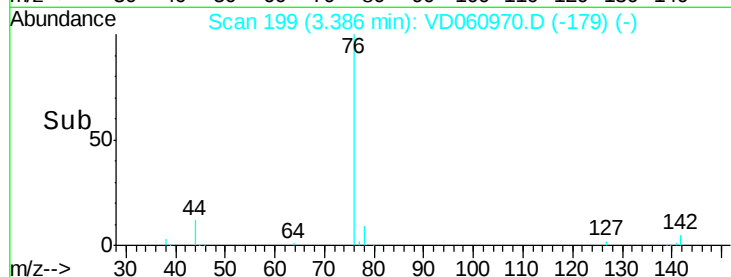
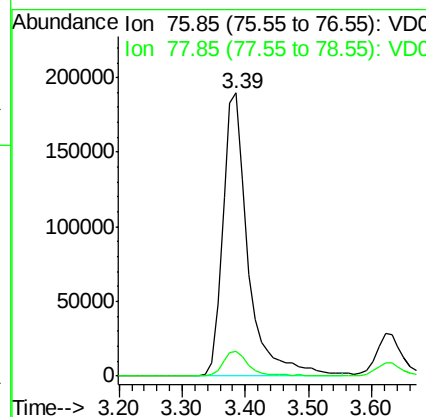
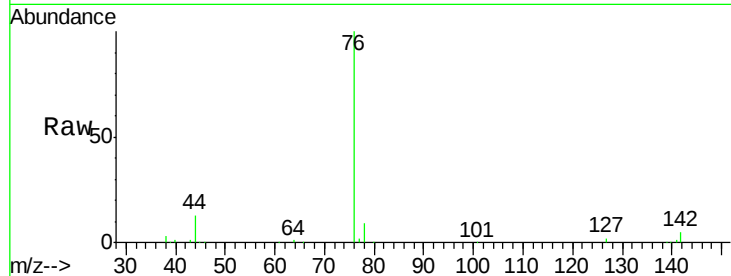
#17
Carbon Disulfide
Concen: 18.281 ug/l
RT: 3.39 min Scan# 199
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

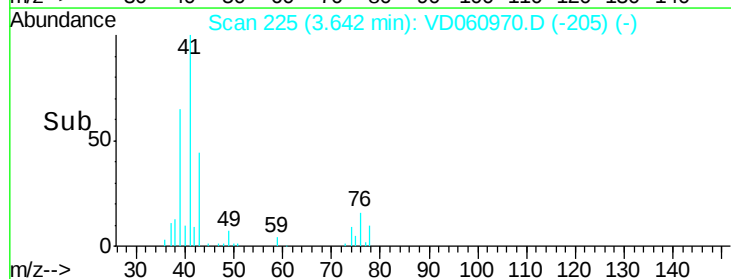
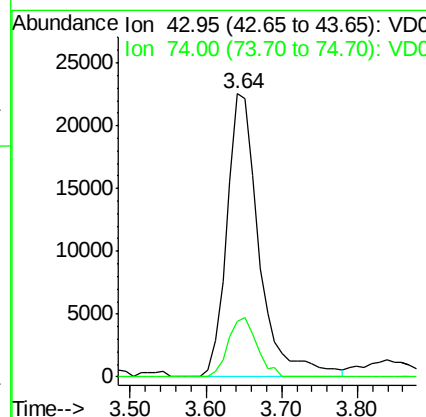
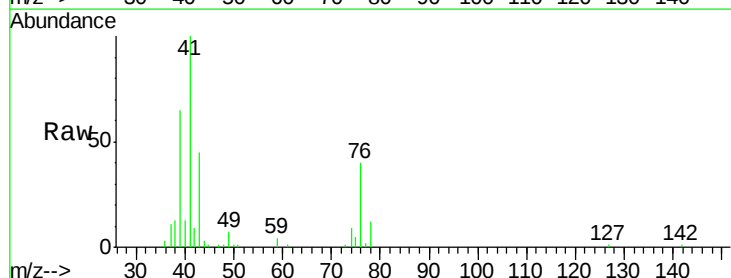
Manual Integrations
APPROVED

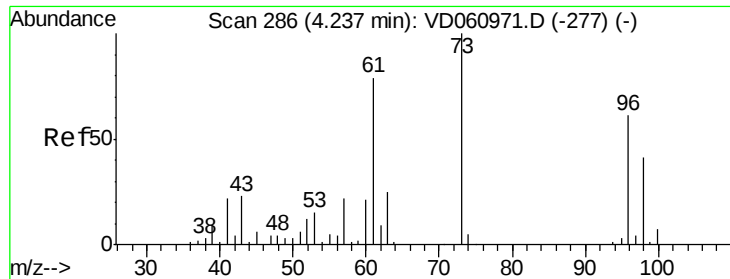
MMDadoda
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#18
Methyl Acetate
Concen: 16.481 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.7	14.6	21.8





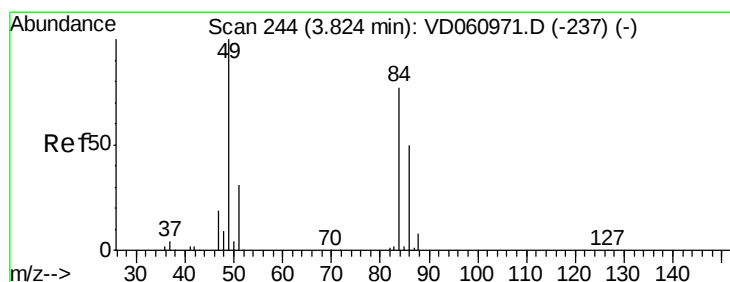
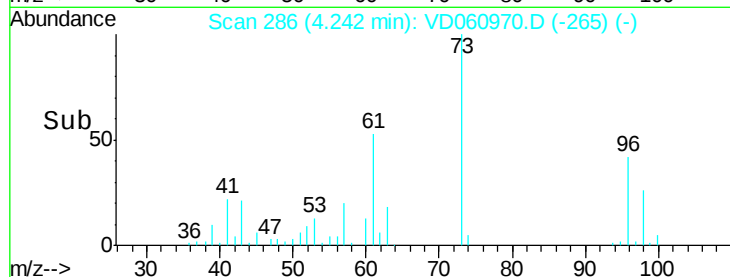
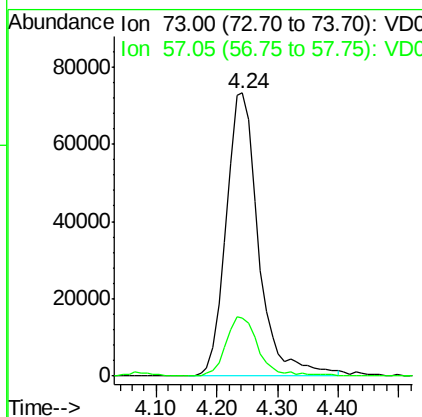
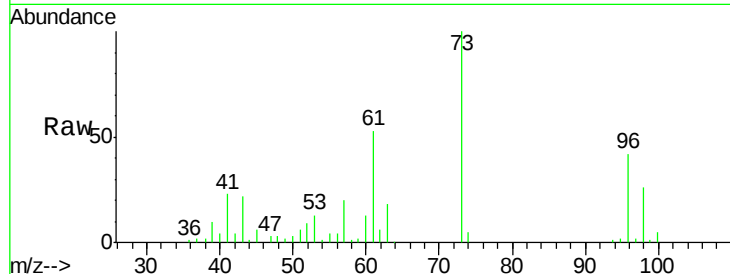
#19
Methyl tert-butyl Ether
Concen: 18.790 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 273010
Ion Ratio Lower Upper
73 100
57 20.3 17.7 26.5

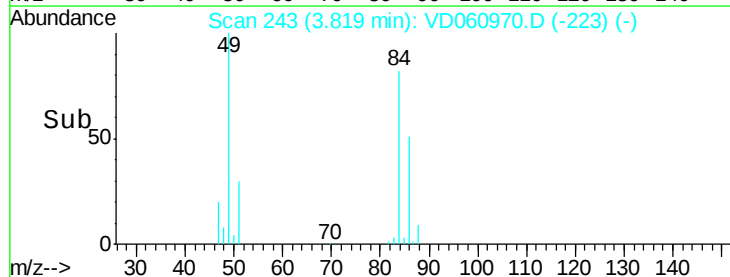
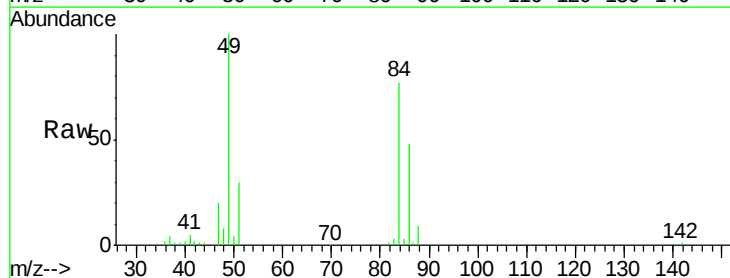
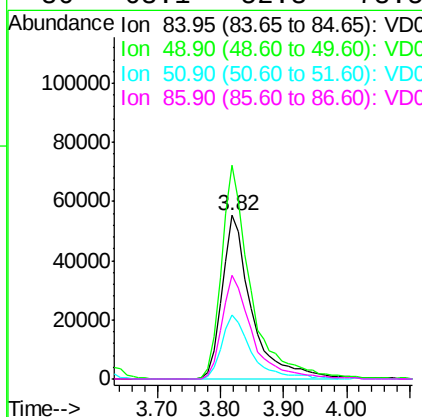
Manual Integrations
APPROVED

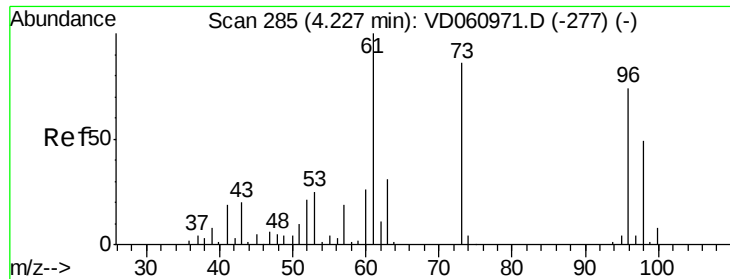
MMDadoda
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#20
Methylene Chloride
Concen: 16.313 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 84 Resp: 179443
Ion Ratio Lower Upper
84 100
49 130.4 104.2 156.2
51 38.9 32.3 48.5
86 63.1 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 19.034 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 170883

Ion Ratio Lower Upper

96 100

61 131.1 108.4 162.6

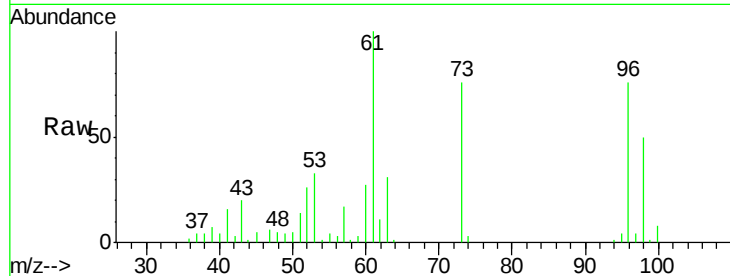
98 65.7 53.0 79.4

Manual Integrations

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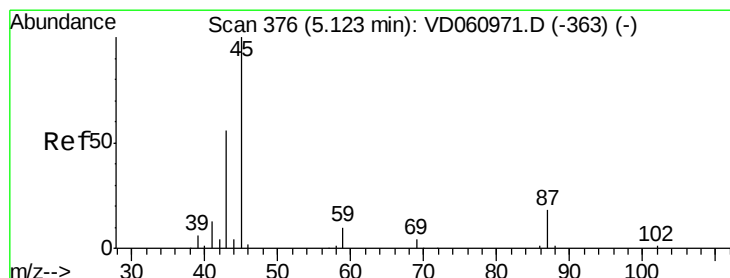
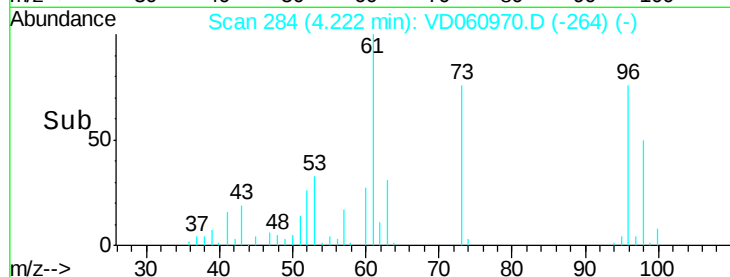
Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

Time-->



#22

Diisopropyl ether

Concen: 18.076 ug/l

RT: 5.13 min Scan# 376

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion: 45 Resp: 514442

Ion Ratio Lower Upper

45 100

43 54.0 45.8 68.8

87 17.7 14.9 22.3

59 9.7 8.0 12.0

Abundance

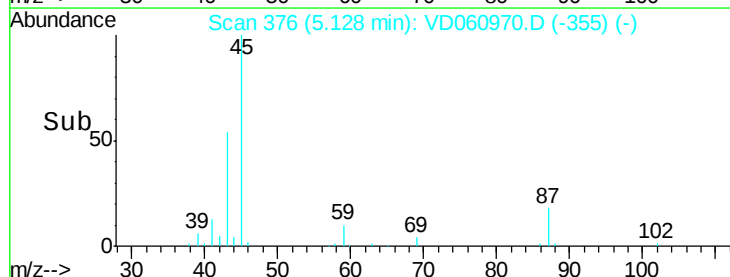
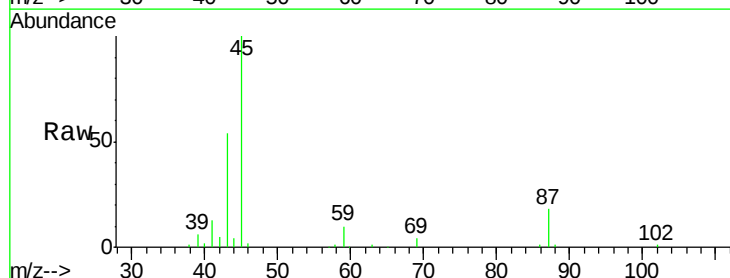
Ion 45.05 (44.75 to 45.75): VDC

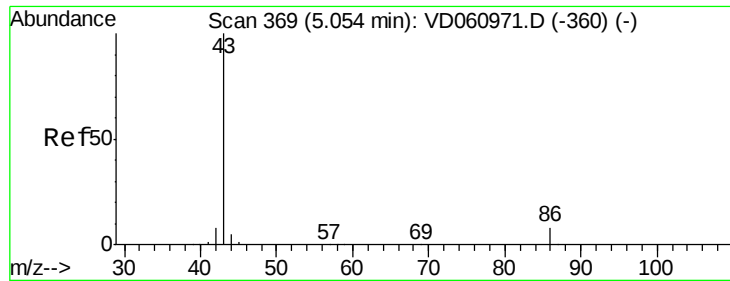
Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC

Time-->





#23

Vinyl Acetate

Concen: 89.996 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1342219

Ion Ratio Lower Upper

43 100

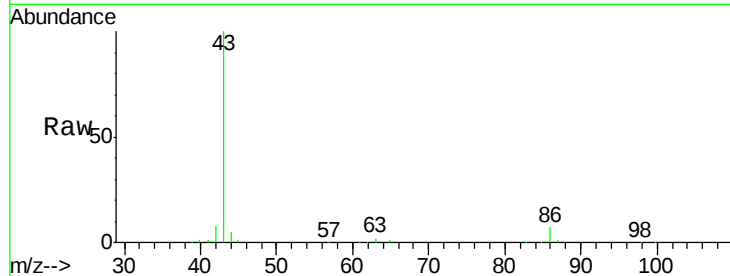
86 6.7 6.2 9.2

Manual Integrations

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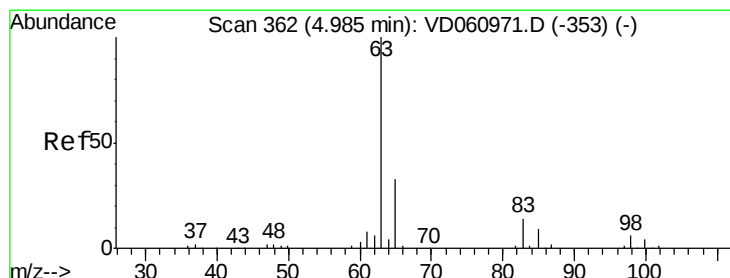
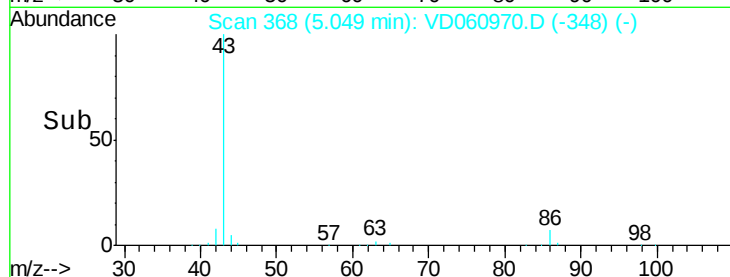
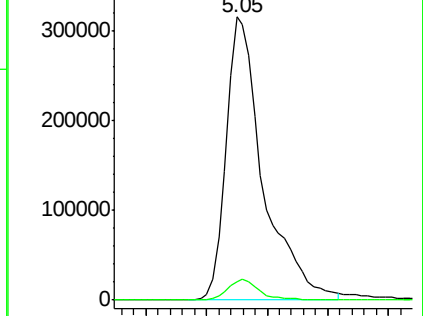
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 18.560 ug/l

RT: 4.98 min Scan# 361

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

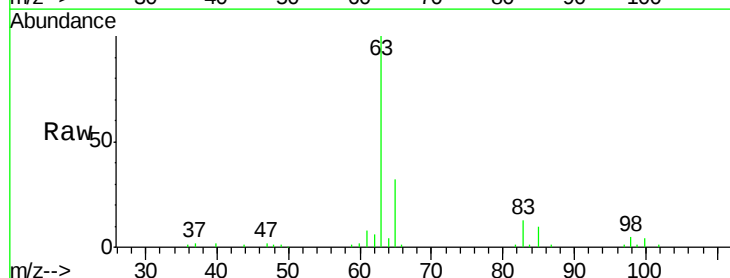
Tgt Ion: 63 Resp: 284040

Ion Ratio Lower Upper

63 100

98 5.4 3.0 9.2

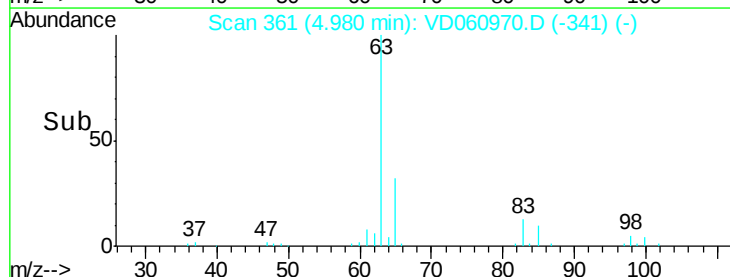
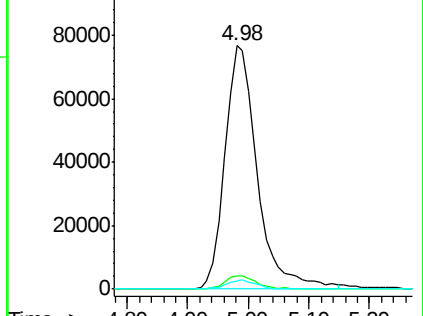
100 3.6 2.0 5.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 81.844 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 198443

Ion Ratio Lower Upper

43 100

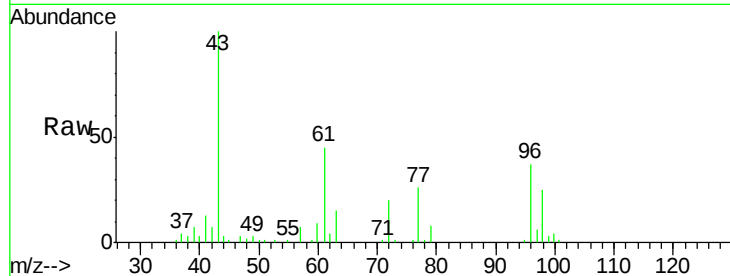
72 20.0 16.7 25.1

Manual Integrations

APPROVED

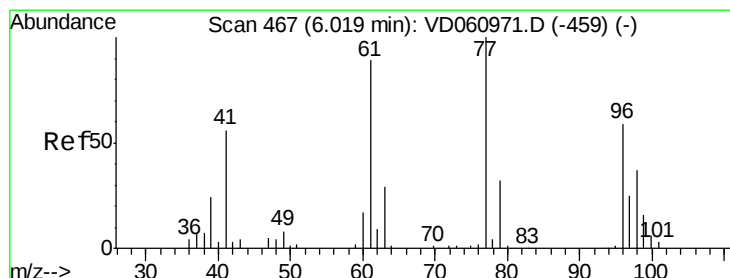
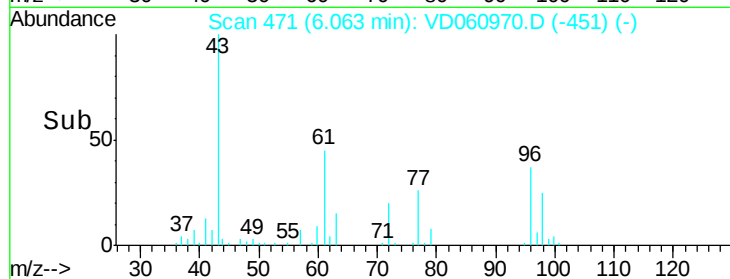
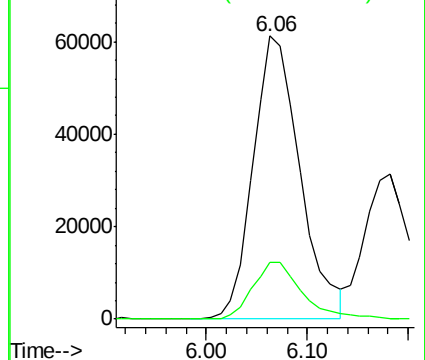
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.293 ug/l

RT: 6.02 min Scan# 467

Delta R.T. 0.00 min

Lab File: VD060970.D

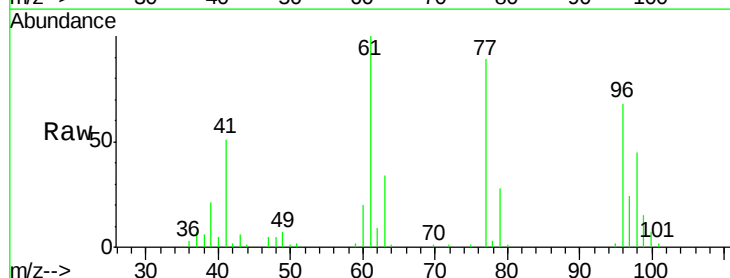
Acq: 7 Mar 2019 16:03

Tgt Ion: 77 Resp: 219415

Ion Ratio Lower Upper

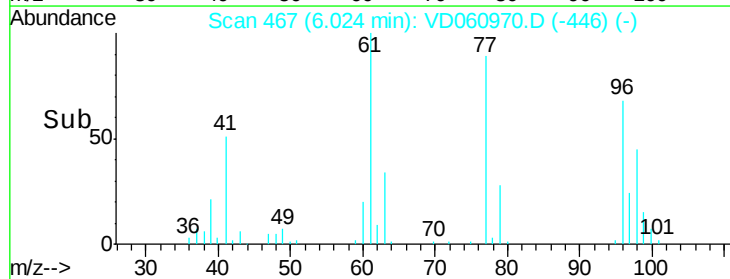
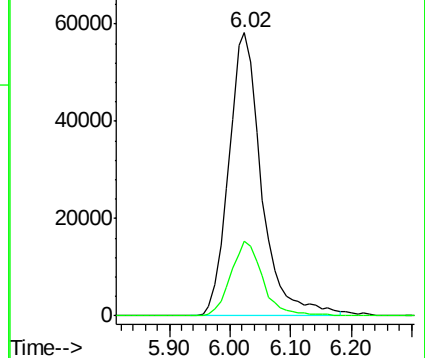
77 100

97 26.6 12.6 37.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

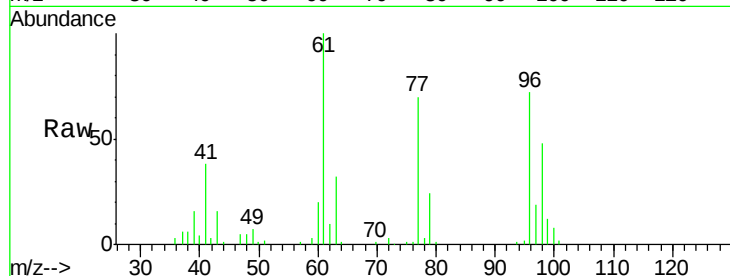
cis-1,2-Dichloroethene
Concen: 17.636 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

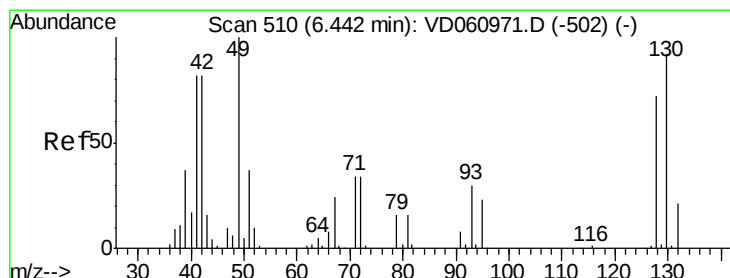
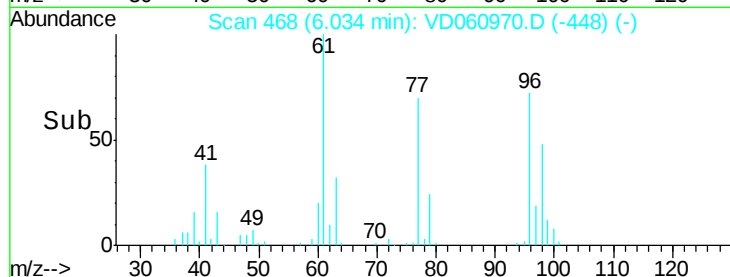
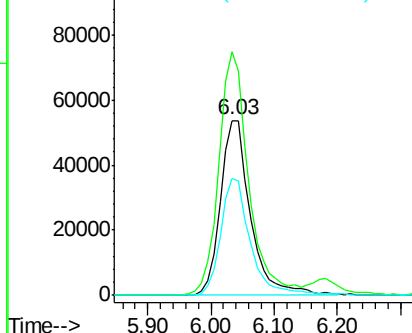
Tot Ion	Ratio	Lower	Upper
96	100		
61	139.2	0.0	273.6
98	67.2	0.0	132.6

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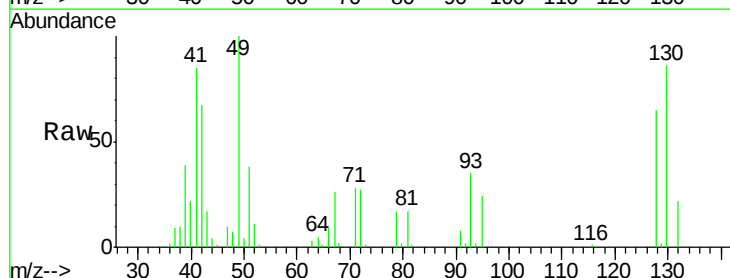
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



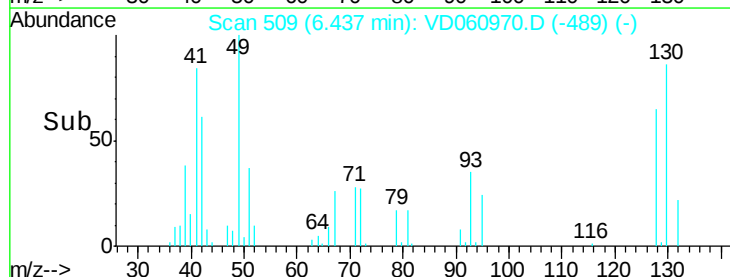
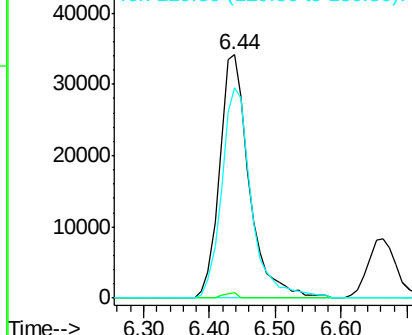
#28

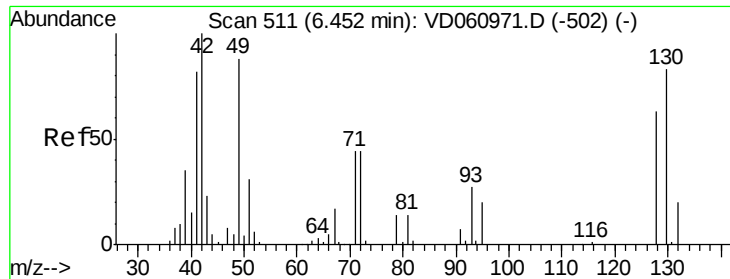
Bromochloromethane
Concen: 16.911 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.0
130	86.4	73.8	110.8



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC





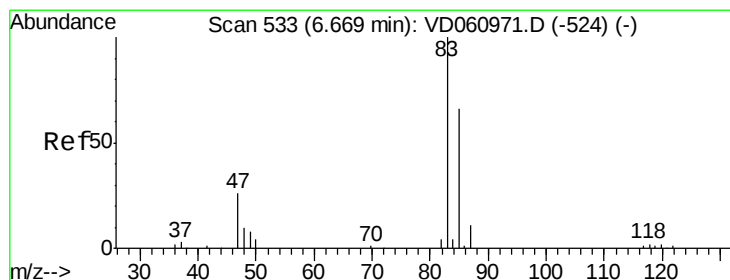
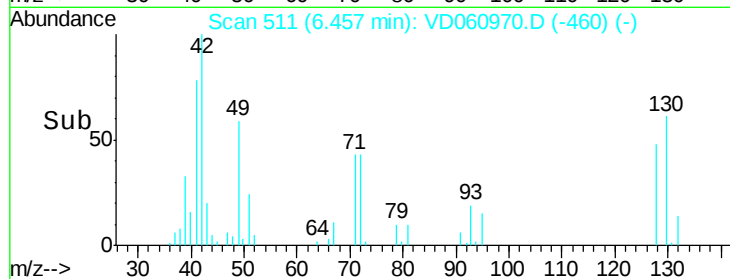
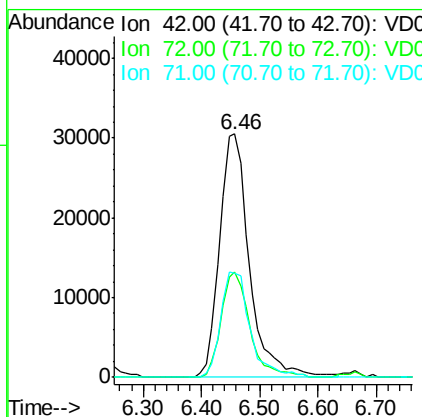
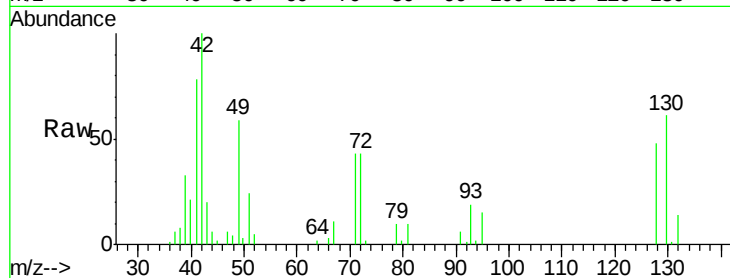
#29
Tetrahydrofuran
Concen: 85.661 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.6	34.5	51.7
71	42.4	33.8	50.6

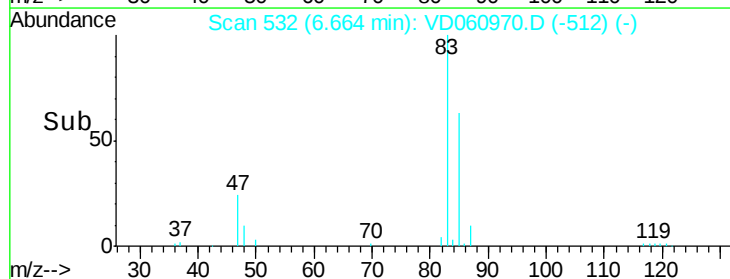
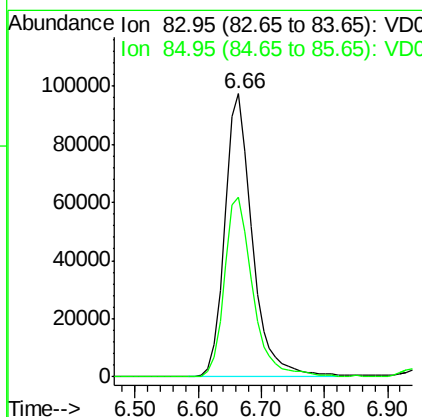
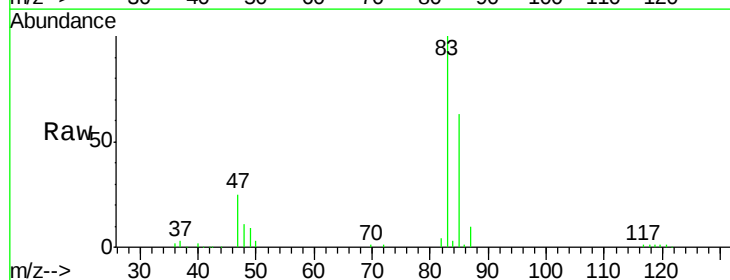
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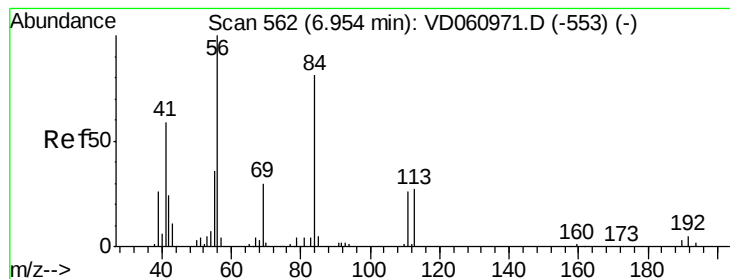
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#30
Chloroform
Concen: 19.877 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	53.0	79.4





#31

Cyclohexane

Concen: 15.999 ug/l

RT: 6.96 min Scan# 562

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

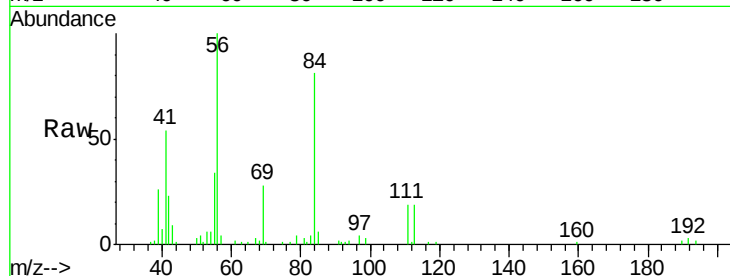
ClientSampleId :

VSTDIC020

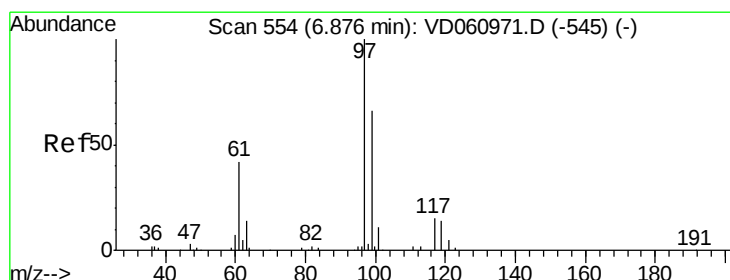
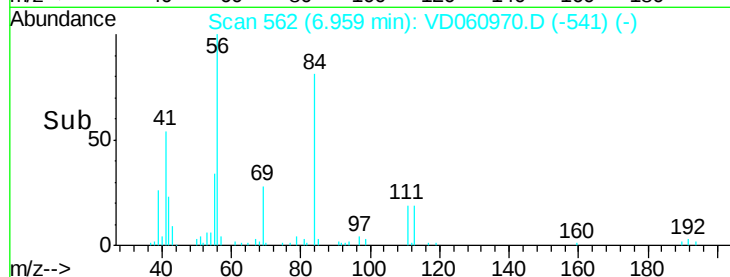
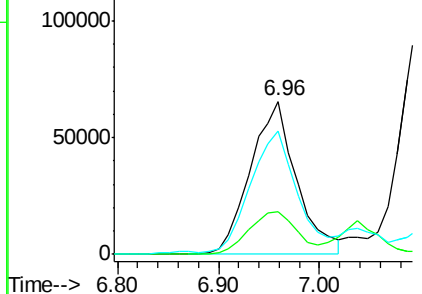
Tot Ion:	56	Resp:	207782
Ion	Ratio	Lower	Upper
56	100		
69	27.6	24.0	36.0
84	80.6	65.8	98.6

Manual Integrations
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Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 19.922 ug/l

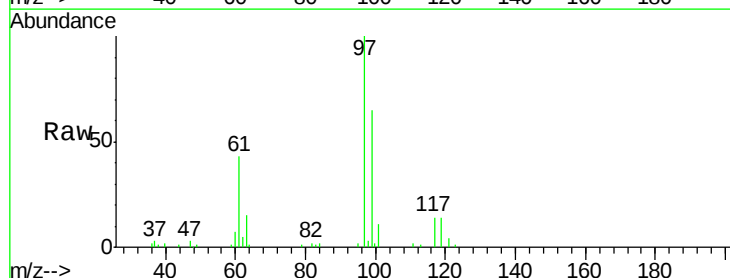
RT: 6.87 min Scan# 553

Delta R.T. -0.00 min

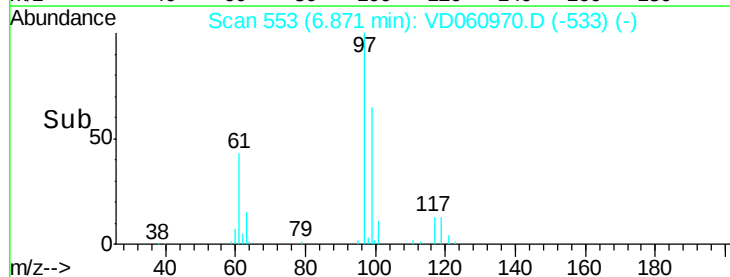
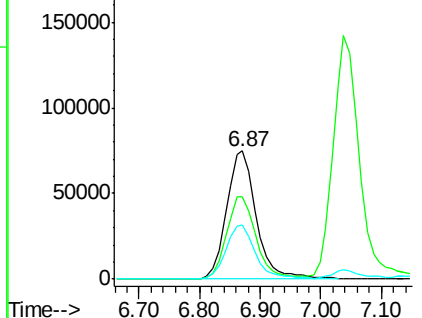
Lab File: VD060970.D

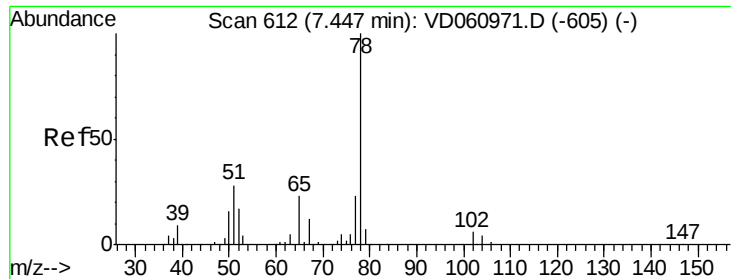
Acq: 7 Mar 2019 16:03

Tgt Ion:	97	Resp:	253745
Ion	Ratio	Lower	Upper
97	100		
99	64.7	53.2	79.8
61	42.6	33.8	50.8



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





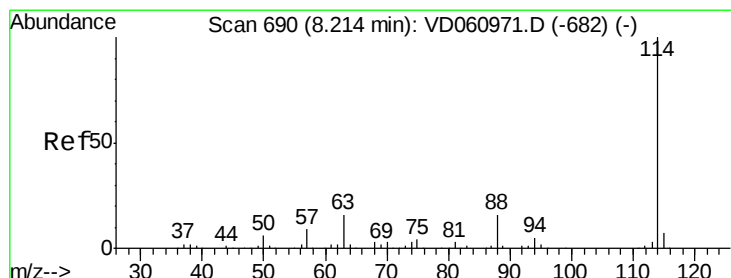
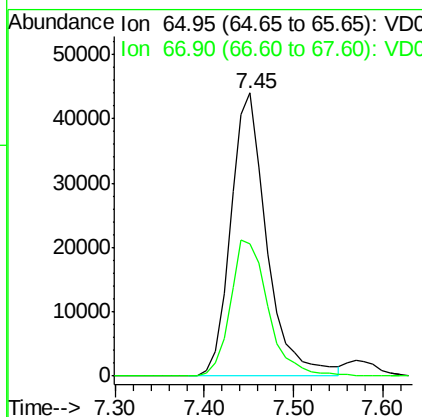
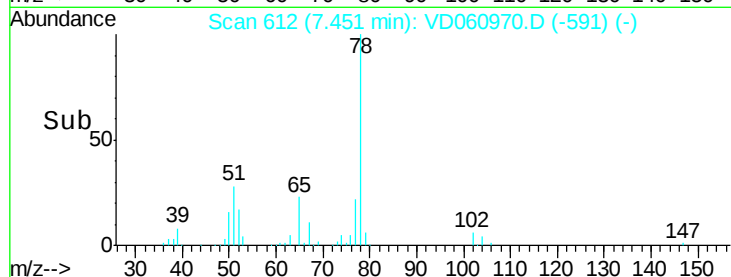
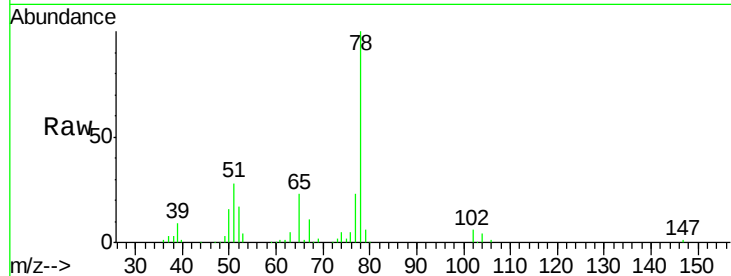
#33
 1,2-Dichloroethane-d4
 Concen: 19.922 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	46.9	0.0	105.2	

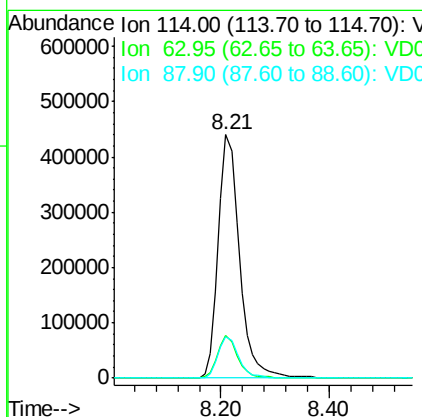
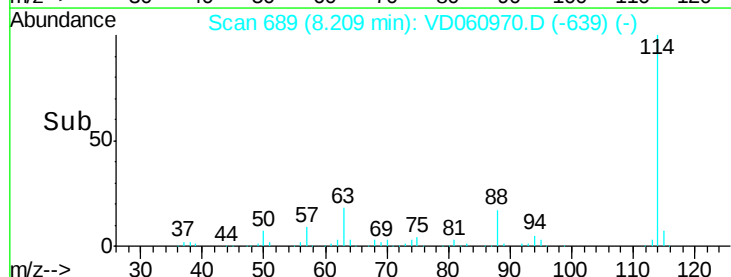
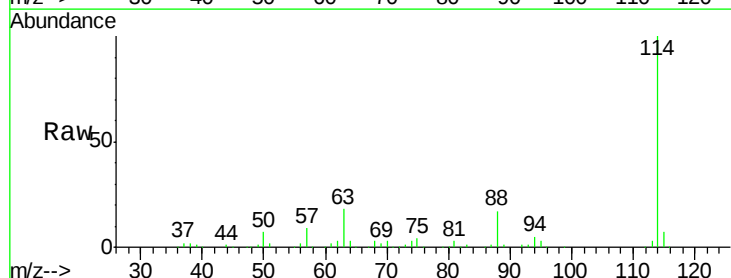
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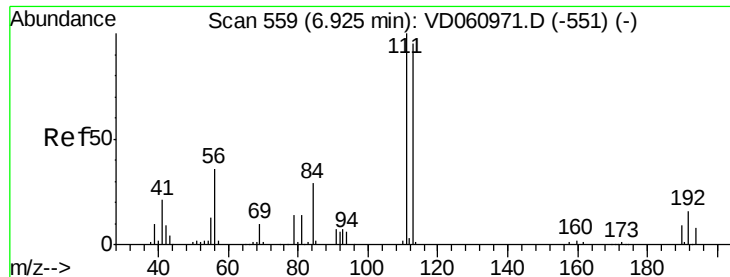
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.6	0.0	31.4	
88	16.9	0.0	33.0	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

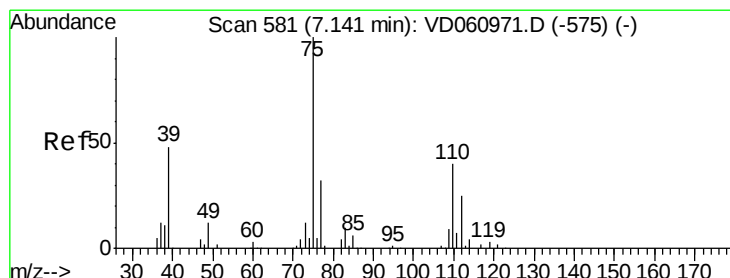
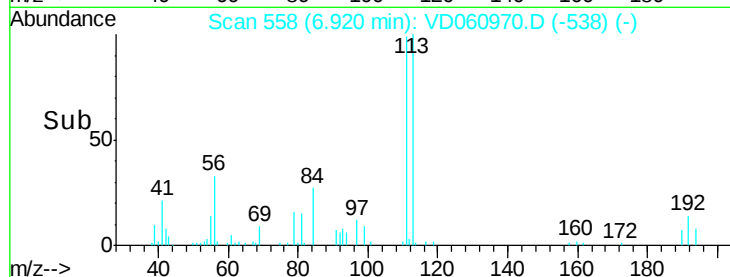
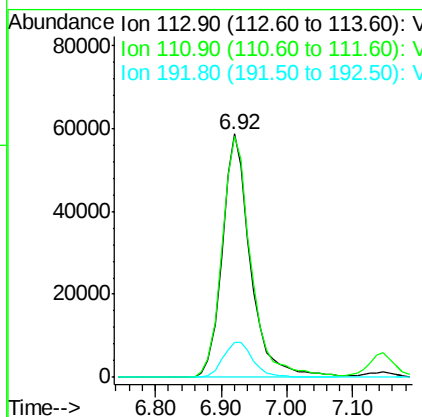
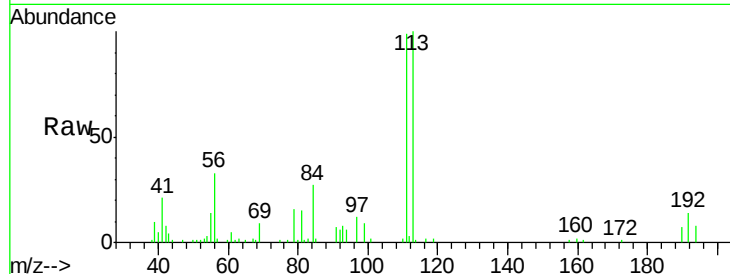
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	174922
Ion Ratio	Lower	Upper	
113	100		
111	98.9	84.2	126.4
192	14.3	13.1	19.7

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 21.046 ug/l

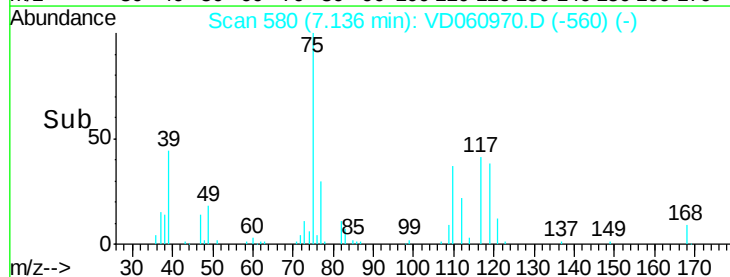
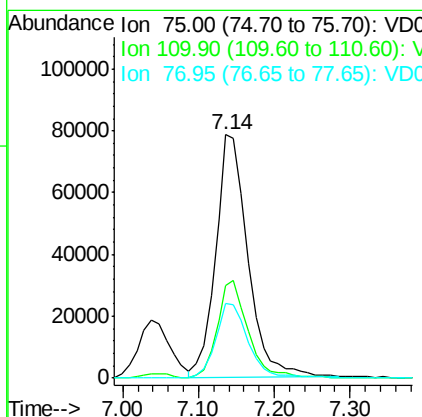
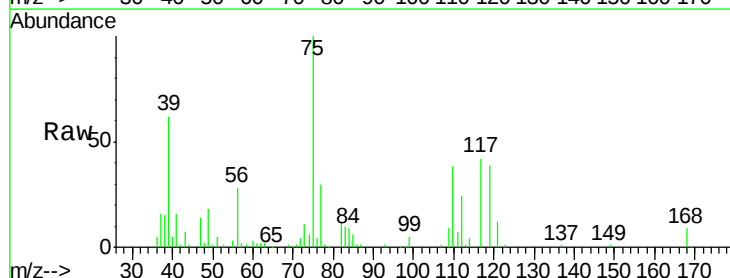
RT: 7.14 min Scan# 580

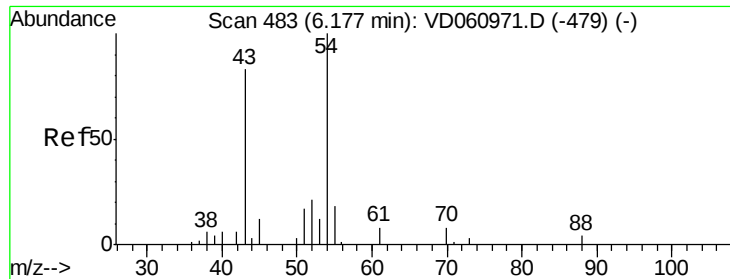
Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	75	Resp:	232324
Ion Ratio	Lower	Upper	
75	100		
110	38.1	19.7	59.1
77	30.4	24.7	37.1





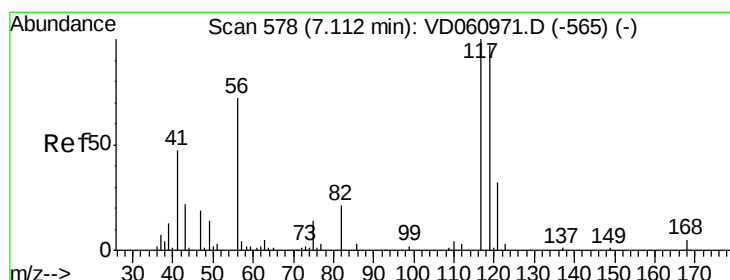
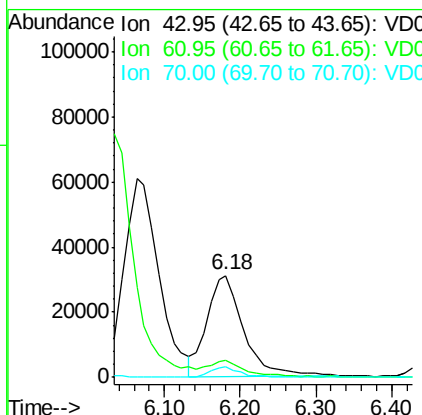
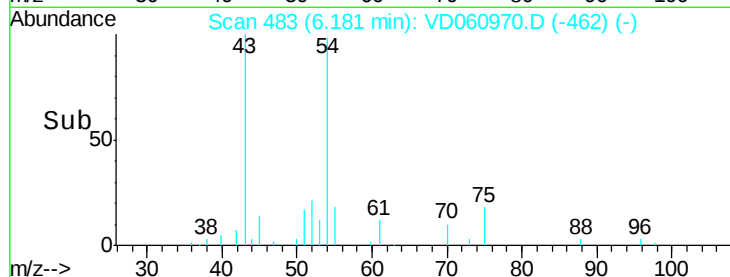
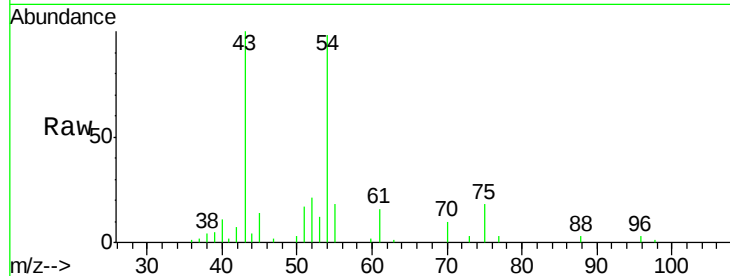
#37
Ethyl Acetate
Concen: 18.403 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.2	13.7	20.5
70	10.5	7.1	10.7

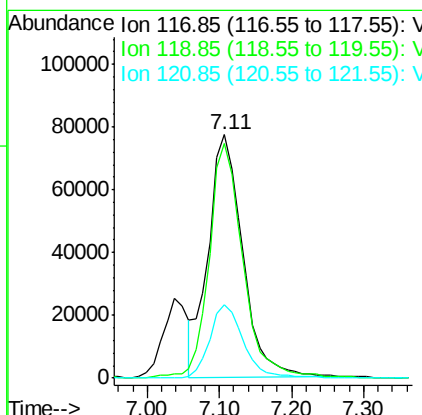
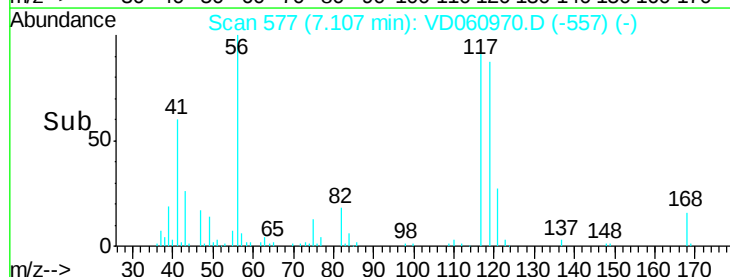
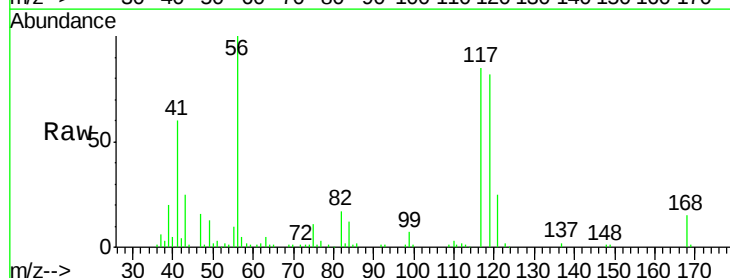
Manual Integrations
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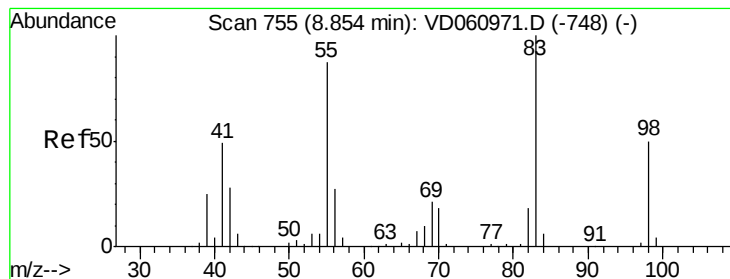
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#38
Carbon Tetrachloride
Concen: 21.337 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.8	116.8
121	30.0	25.3	37.9





#39

Methvlcvclohexane

Concen: 18.426 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 221679

Ion Ratio Lower Upper

83 100

55 91.2 69.6 104.4

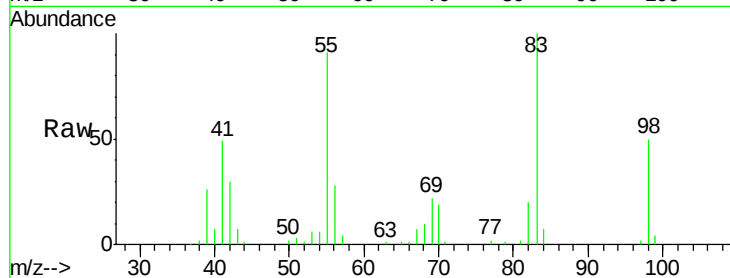
98 50.3 40.0 60.0

Manual Integrations

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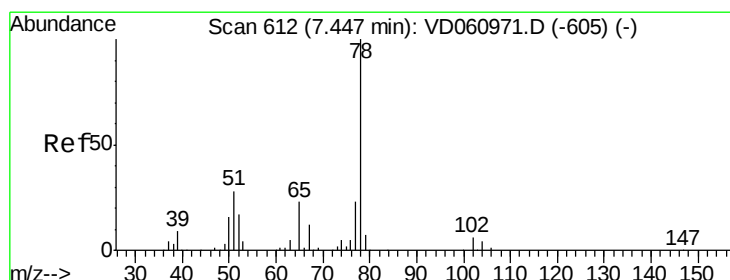
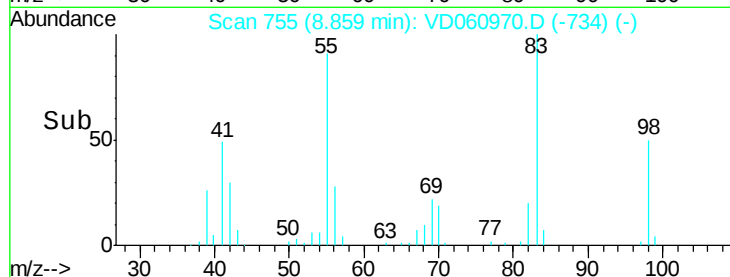
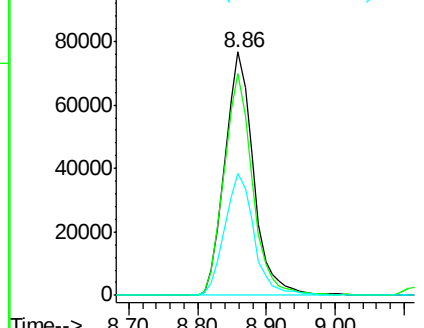
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Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 19.953 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD060970.D

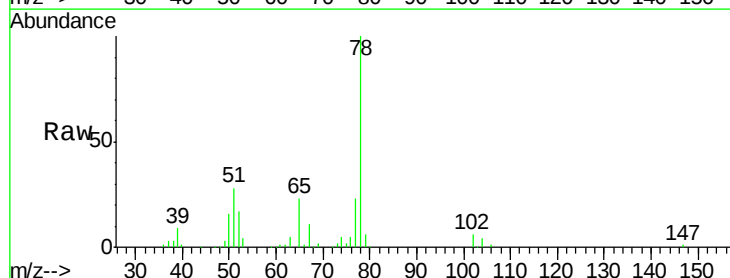
Acq: 7 Mar 2019 16:03

Tgt Ion: 78 Resp: 568369

Ion Ratio Lower Upper

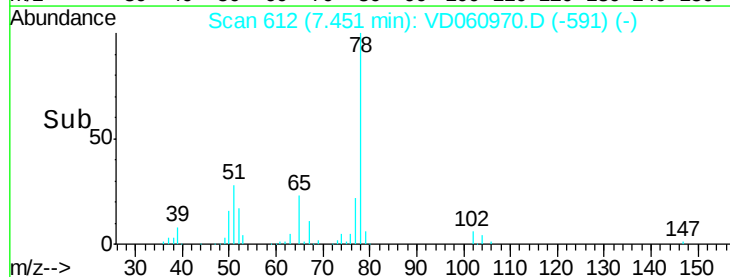
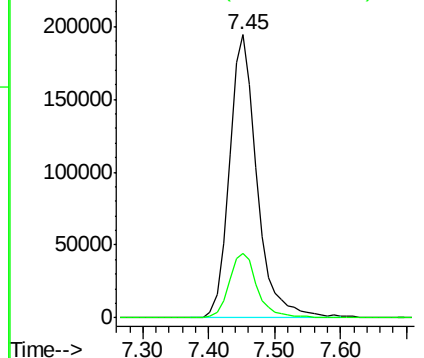
78 100

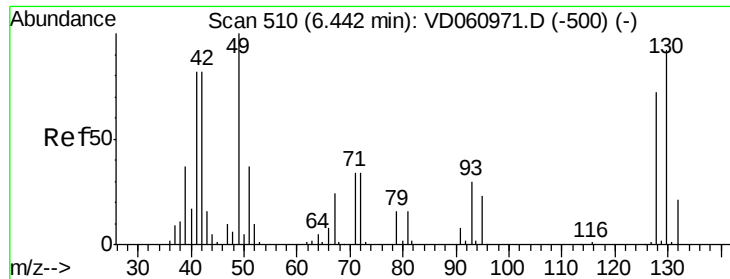
77 22.6 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 29.639 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 119821

Ion Ratio Lower Upper

41 100

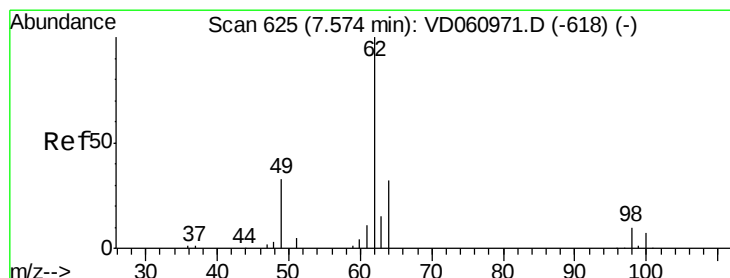
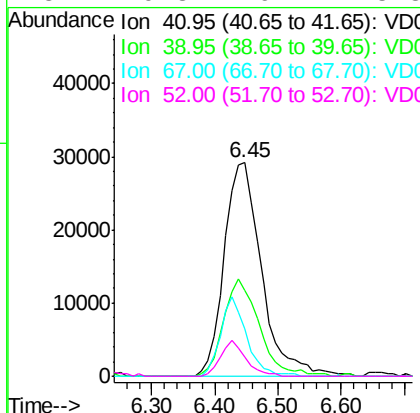
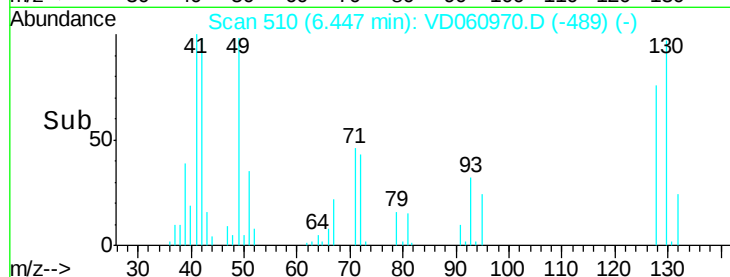
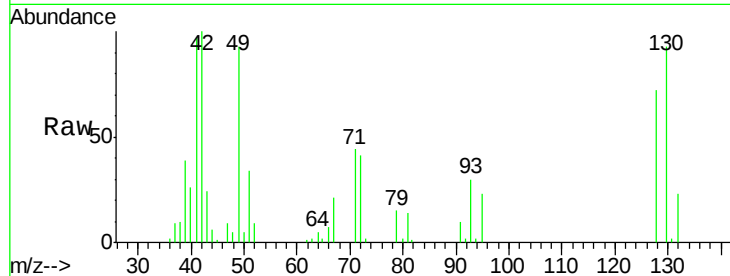
39 40.3 35.7 53.5

67 22.1 23.0 34.6#

52 9.3 9.2 13.8

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.095 ug/l

RT: 7.58 min Scan# 625

Delta R.T. 0.00 min

Lab File: VD060970.D

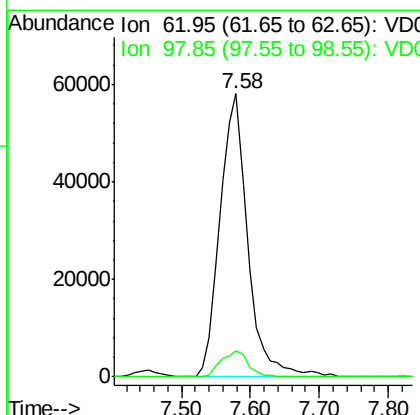
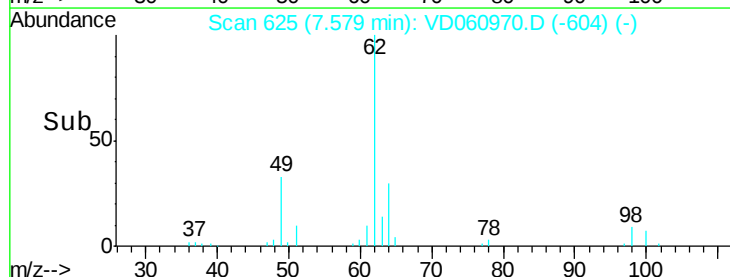
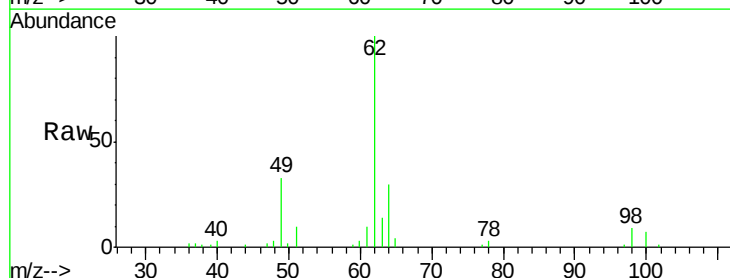
Acq: 7 Mar 2019 16:03

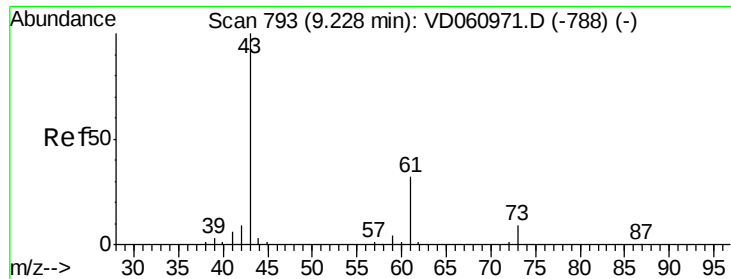
Tgt Ion: 62 Resp: 162027

Ion Ratio Lower Upper

62 100

98 9.0 0.0 20.4





#43

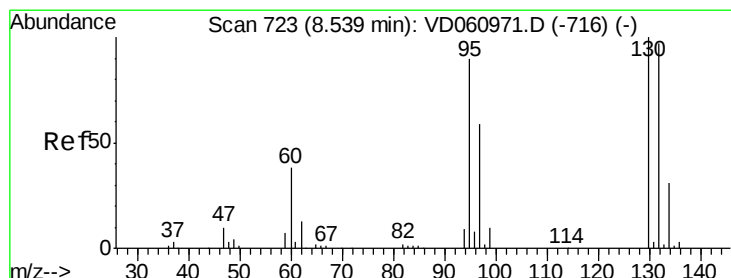
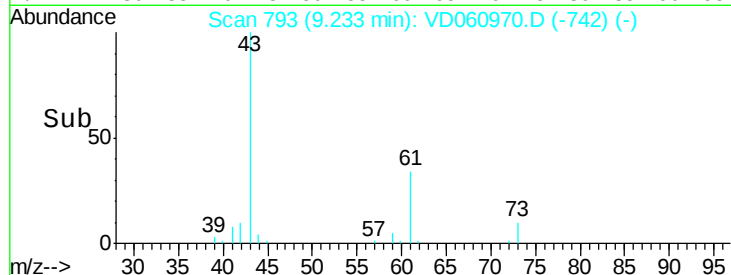
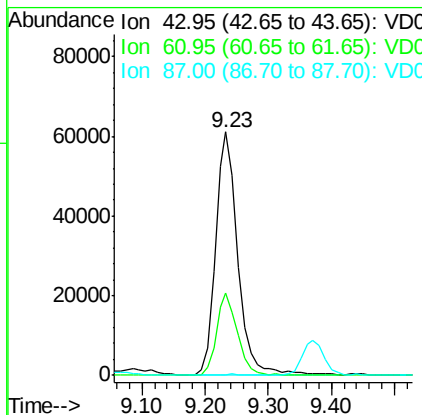
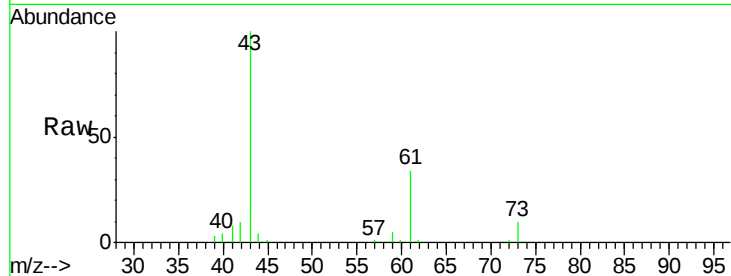
Isopropyl Acetate
 Concen: 19.232 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.6	25.6	38.4
87	0.0	0.2	0.4

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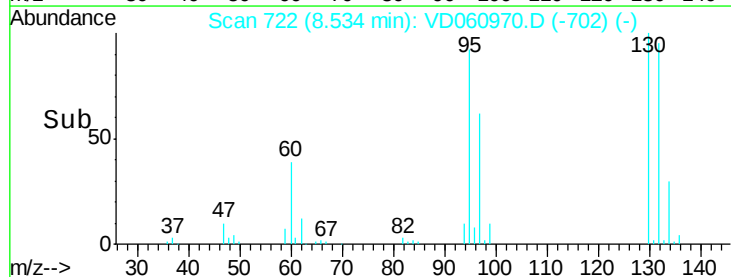
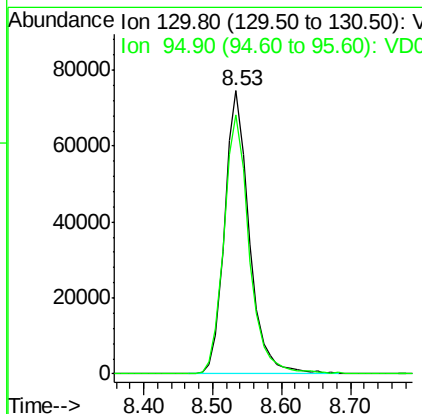
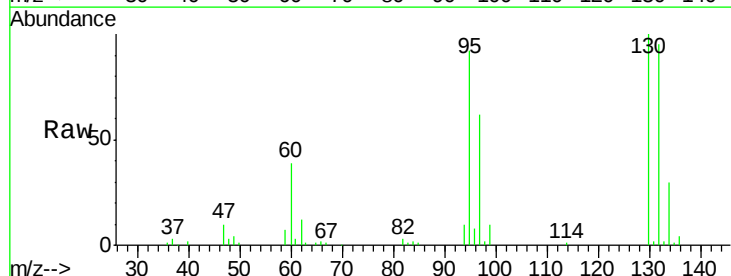
MMDadoda
 3/8/2019 9:46:24 PM



#44

Trichloroethene
 Concen: 19.097 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.7	0.0	179.4





#45

1,2-Dichloropropane

Concen: 19.857 ug/l

RT: 8.94 min Scan# 763

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 148632

Ion Ratio Lower Upper

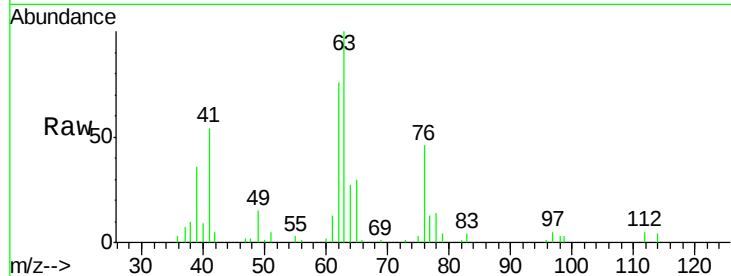
63 100

65 30.4 24.8 37.2

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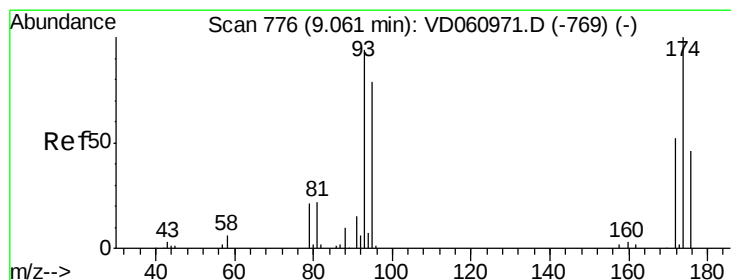
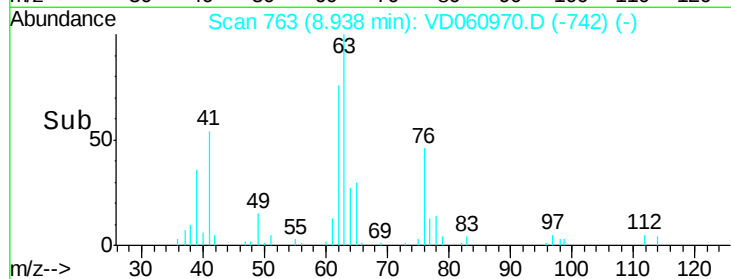
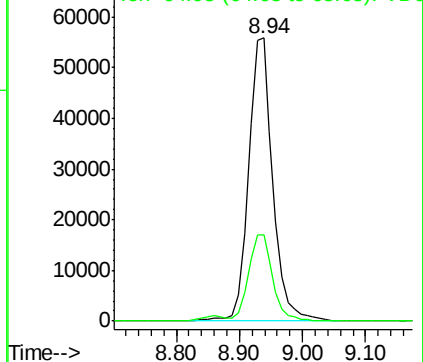
MMDadoda

3/8/2019 9:46:24 PM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 18.749 ug/l

RT: 9.06 min Scan# 775

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

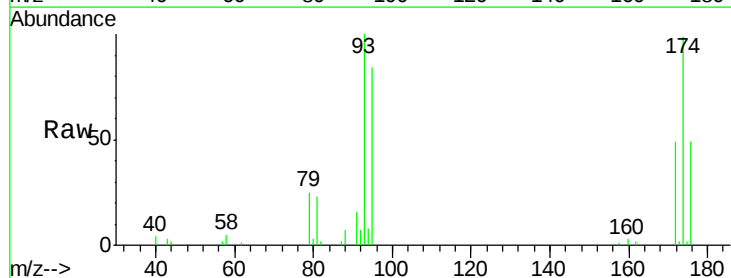
Tgt Ion: 93 Resp: 89783

Ion Ratio Lower Upper

93 100

95 84.2 67.4 101.0

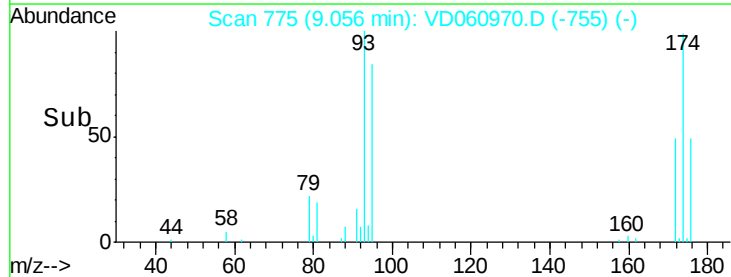
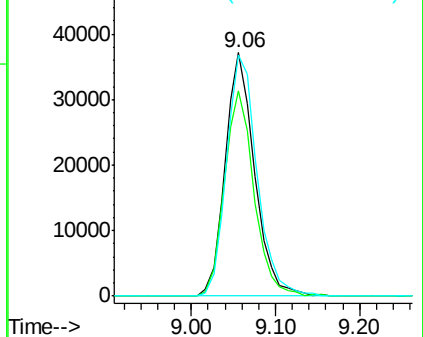
174 99.0 85.4 128.0



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 19.062 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

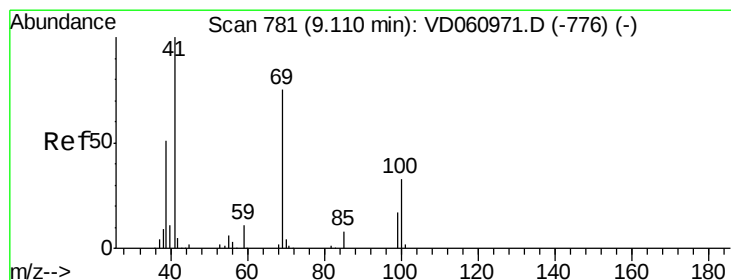
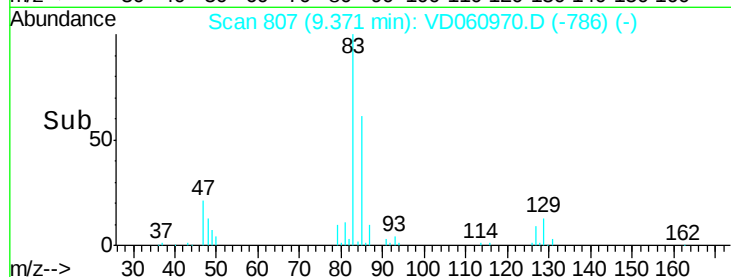
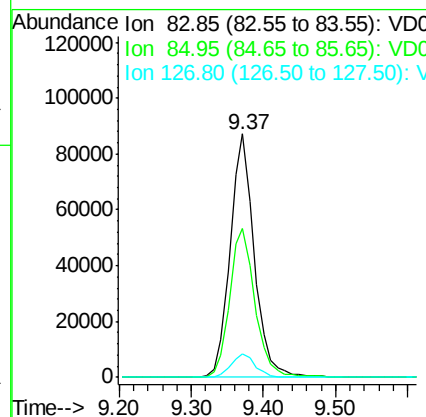
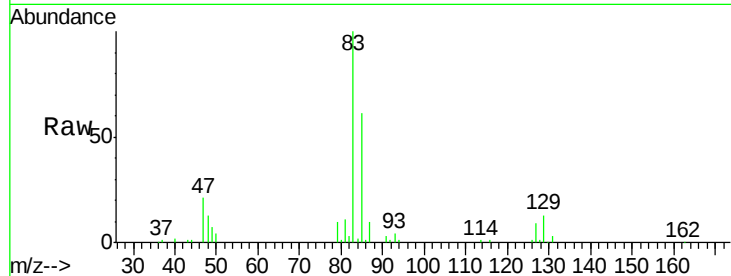
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	202599
Ion	Ratio	Lower	Upper
83	100		
85	61.3	52.5	78.7
127	9.5	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.598 ug/l

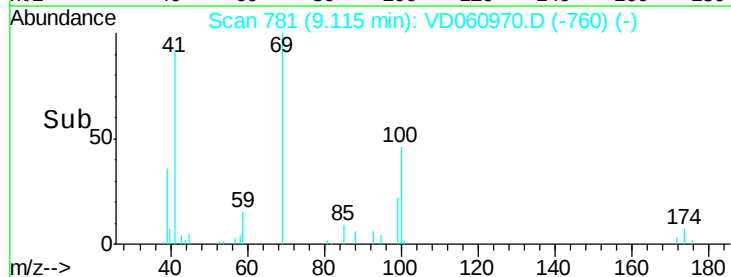
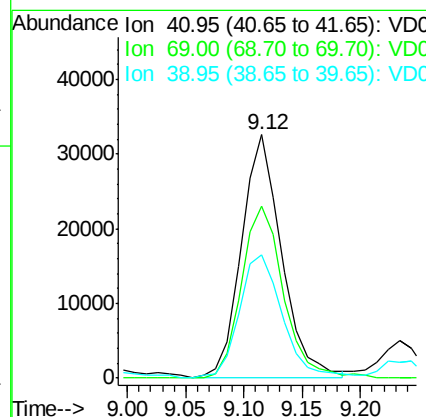
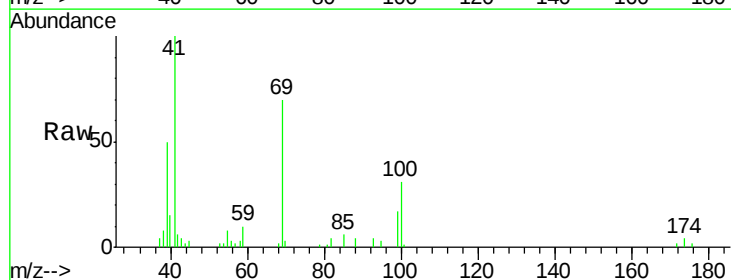
RT: 9.12 min Scan# 781

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	41	Resp:	78089
Ion	Ratio	Lower	Upper
41	100		
69	70.4	59.9	89.9
39	50.4	40.9	61.3





#49

1,4-Dioxane

Concen: 325.569 ug/l

RT: 9.08 min Scan# 777

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

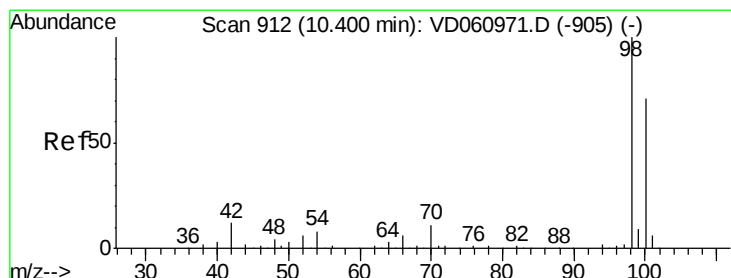
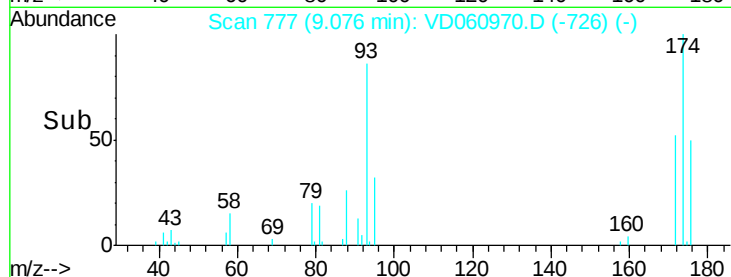
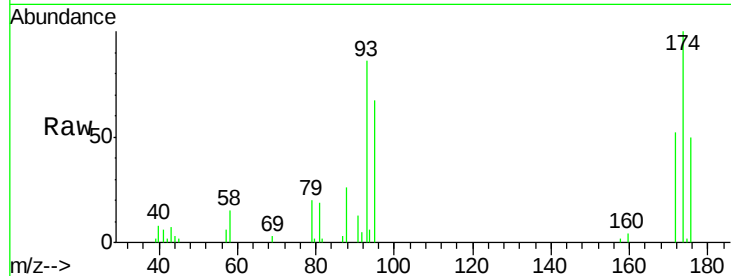
ClientSampleId :

VSTDIC020

Tot Ion:	88	Resp:	14827
Ion	Ratio	Lower	Upper
88	100		
43	25.2	21.0	31.6
58	56.6	48.6	72.8

Manual Integrations
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#50

Toluene-d8

Concen: 325.569 ug/l

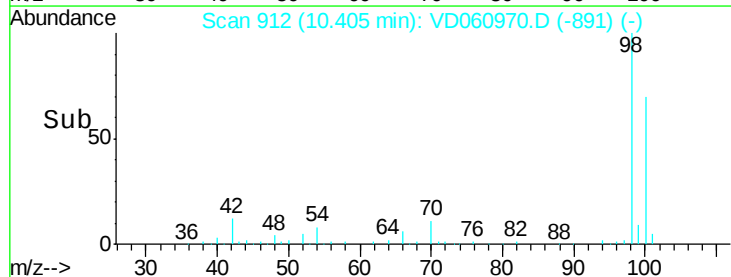
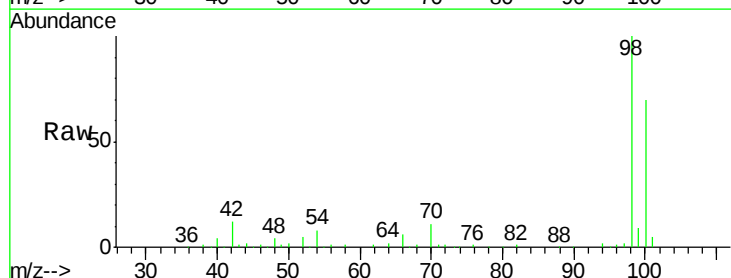
RT: 10.40 min Scan# 912

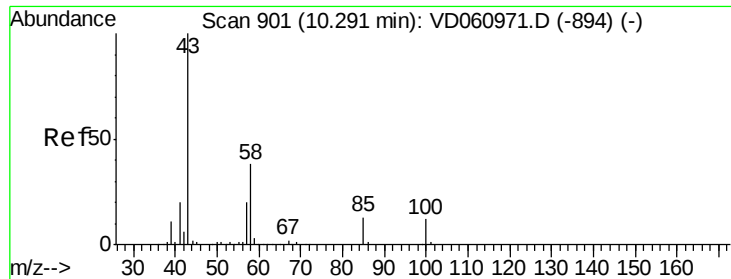
Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	98	Resp:	468133
Ion	Ratio	Lower	Upper
98	100		
100	70.3	57.4	86.2





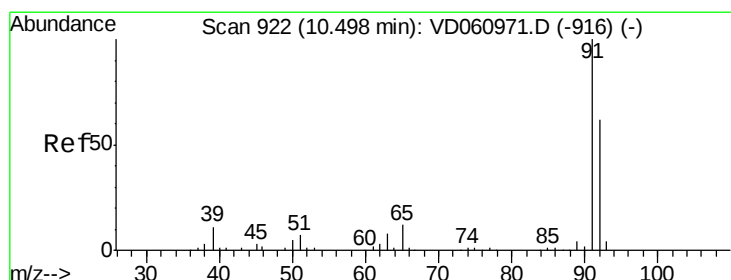
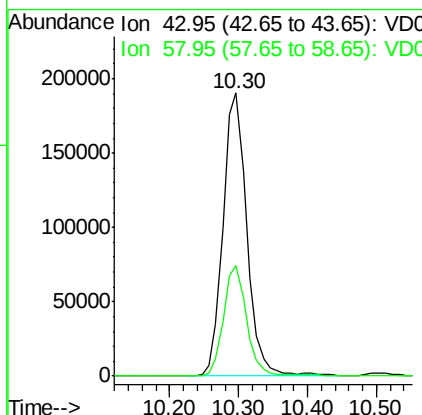
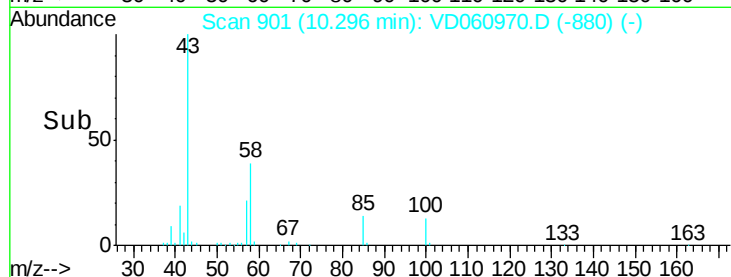
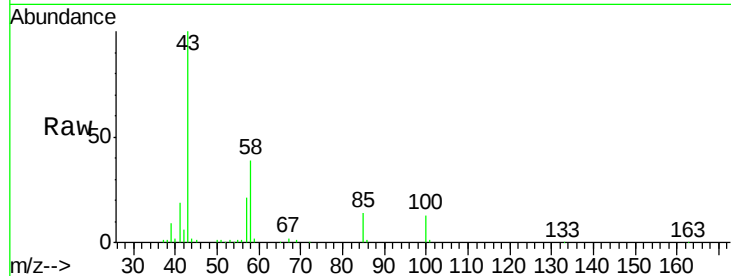
#51
4-Methyl-2-Pentanone
Concen: 95.196 ug/l
RT: 10.30 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 456200
Ion Ratio Lower Upper
43 100
58 39.1 30.2 45.2

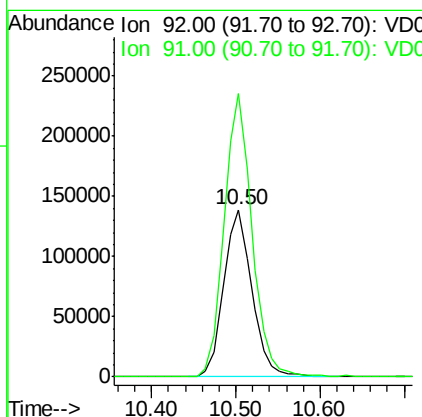
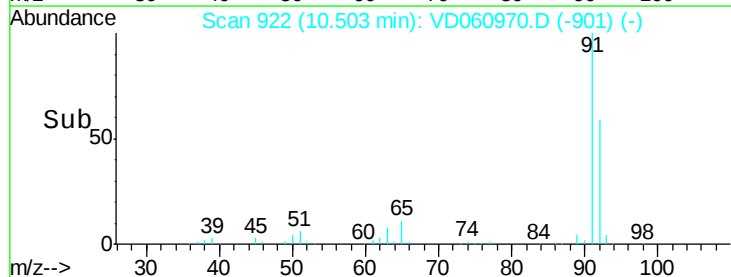
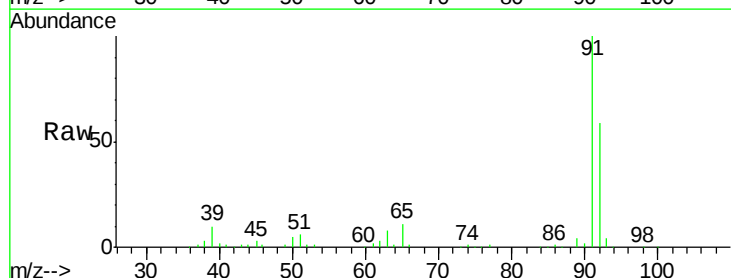
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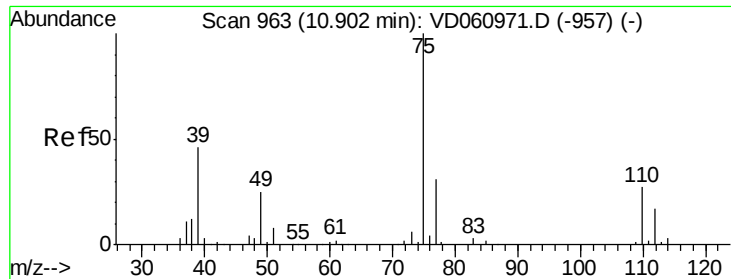
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#52
Toluene
Concen: 17.812 ug/l
RT: 10.50 min Scan# 922
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 92 Resp: 322905
Ion Ratio Lower Upper
92 100
91 169.1 129.8 194.8





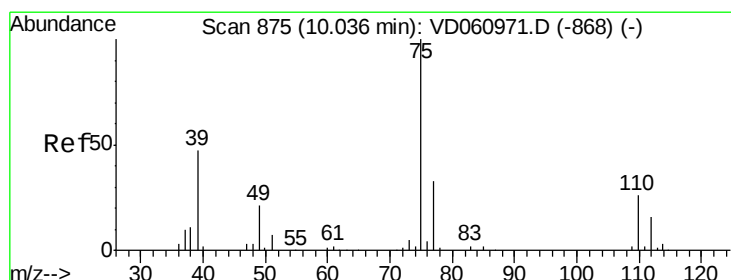
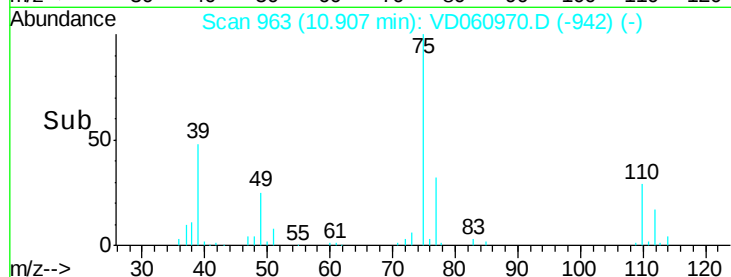
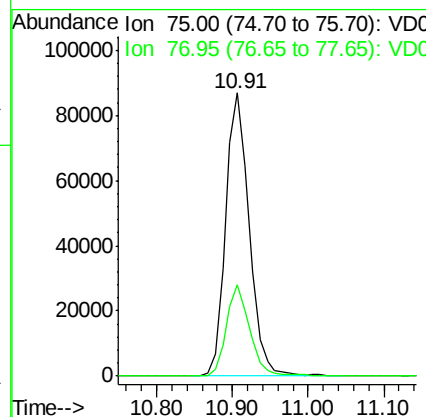
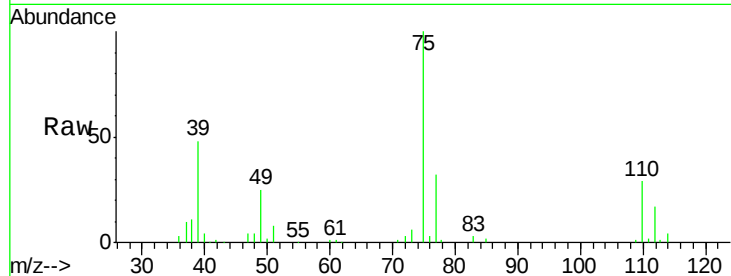
#53
t-1,3-Dichloropropene
Concen: 19.447 ug/l
RT: 10.91 min Scan# 963
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 187791
Ion Ratio Lower Upper
75 100
77 32.2 24.7 37.1

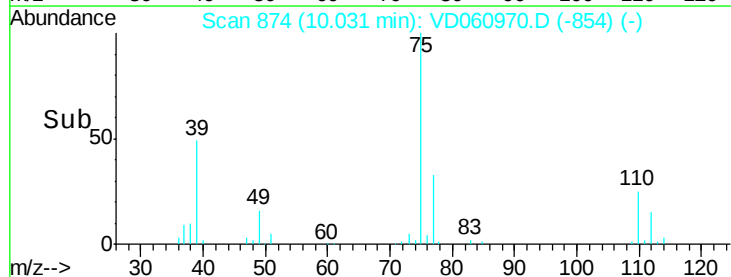
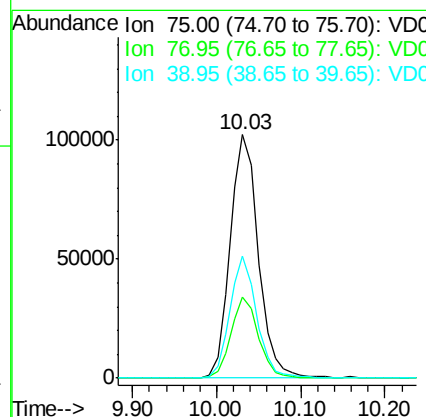
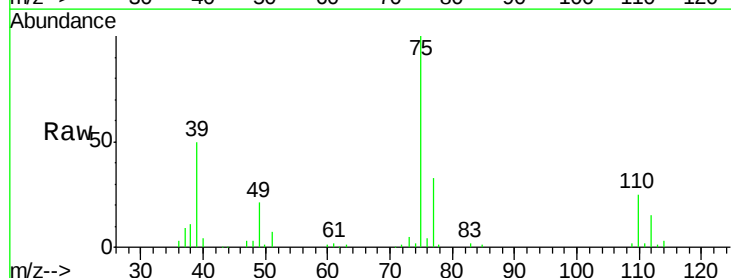
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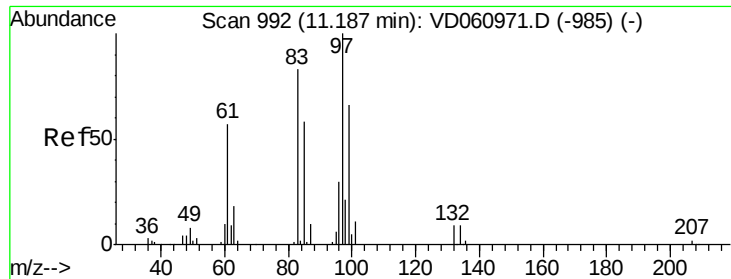
MMDadoda
3/8/2019 9:46:24 PM



#54
cis-1,3-Dichloropropene
Concen: 20.097 ug/l
RT: 10.03 min Scan# 874
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 75 Resp: 238029
Ion Ratio Lower Upper
75 100
77 33.5 26.2 39.4
39 49.9 37.8 56.8





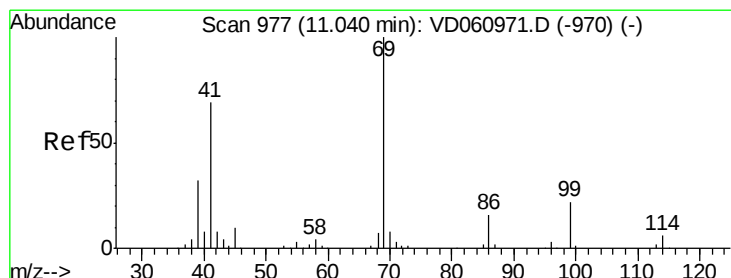
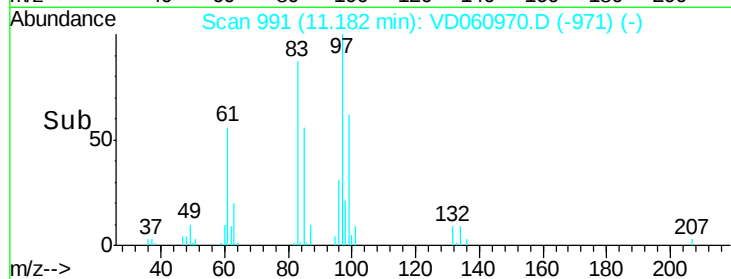
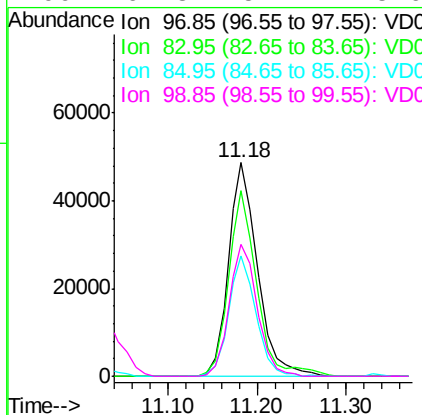
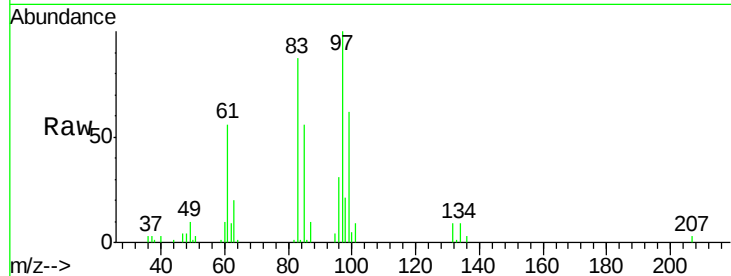
#55
 1,1,2-Trichloroethane
 Concen: 18.494 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		110854		
83	86.7	66.6	100.0		
85	56.2	46.4	69.6		
99	61.8	52.4	78.6		

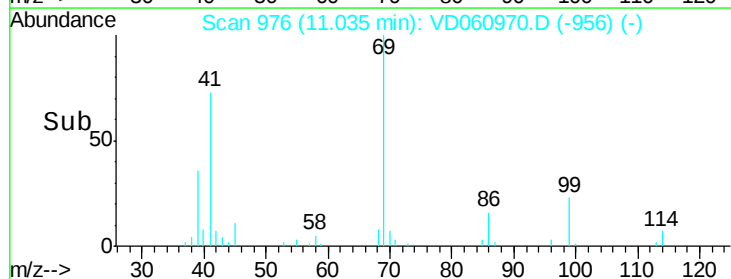
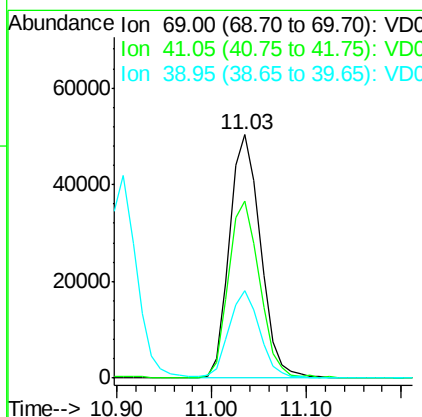
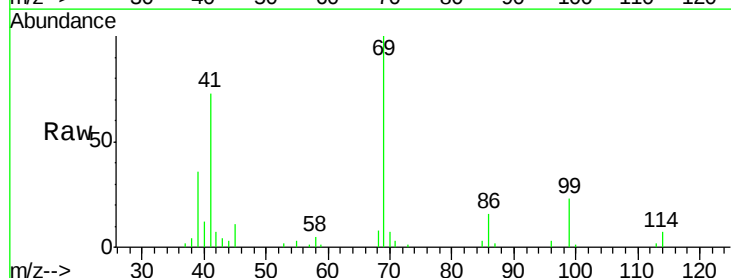
Manual Integrations
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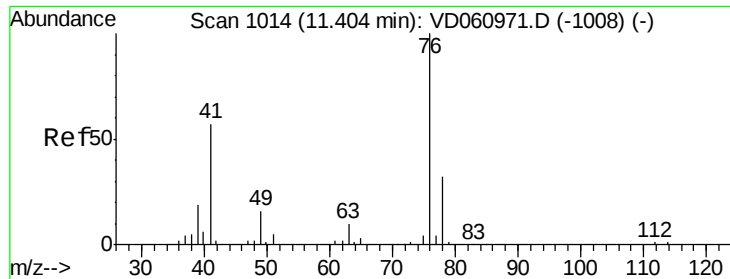
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 18.203 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		114529		
41	72.5	55.5	83.3		
39	35.9	26.2	39.2		





#57

1,3-Dichloropropane

Concen: 20.101 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleID :

VSTDIC020

Tot Ion: 76 Resp: 174186

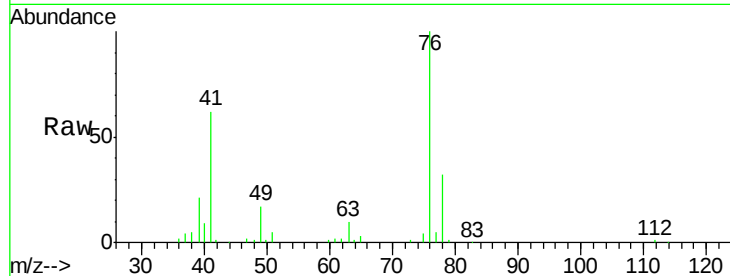
Ion Ratio Lower Upper

76 100

78 32.2 25.4 38.0

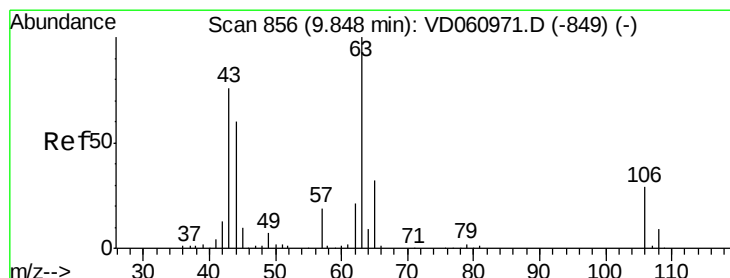
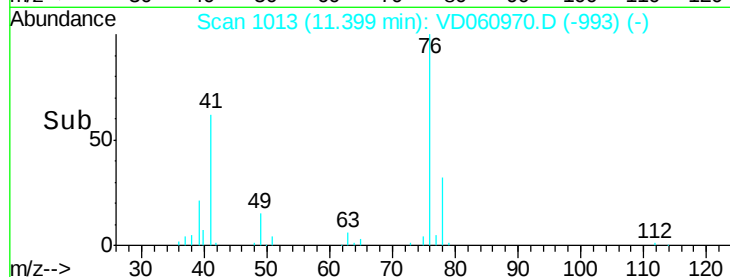
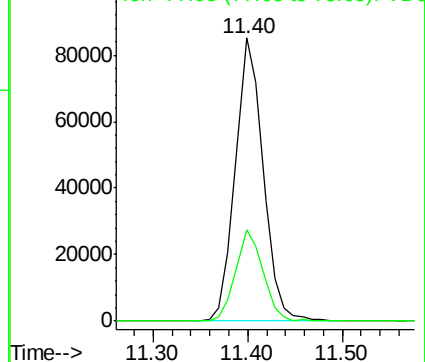
Manual Integrations
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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 86.992 ug/l

RT: 9.85 min Scan# 856

Delta R.T. 0.00 min

Lab File: VD060970.D

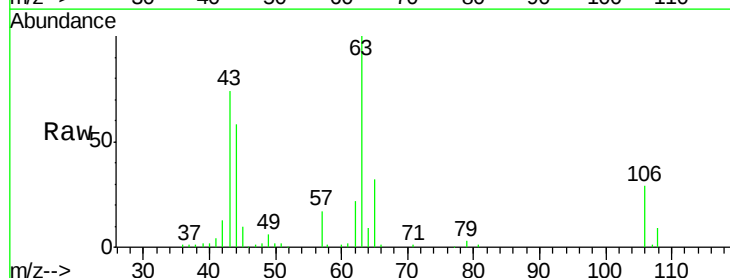
Acq: 7 Mar 2019 16:03

Tgt Ion: 63 Resp: 293059

Ion Ratio Lower Upper

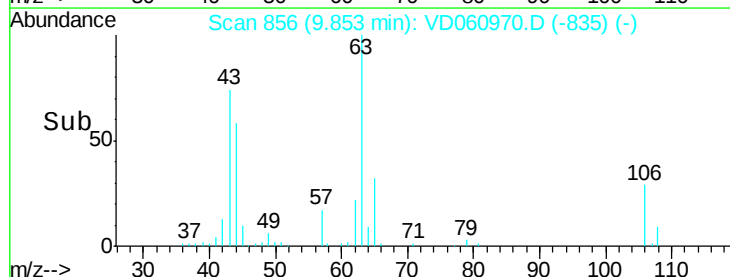
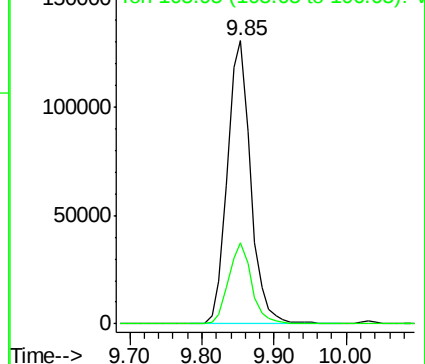
63 100

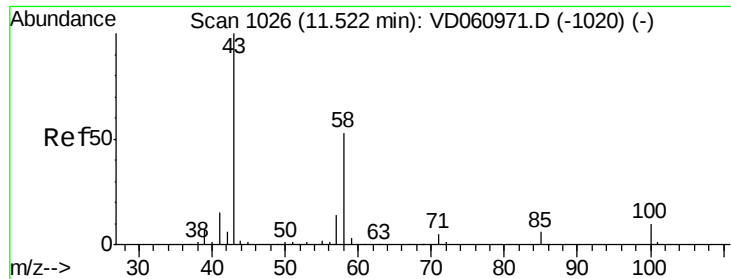
106 28.7 22.8 34.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





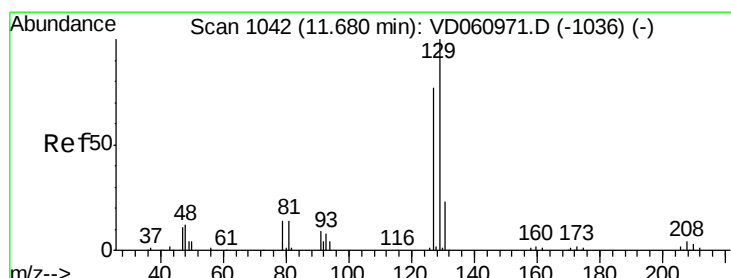
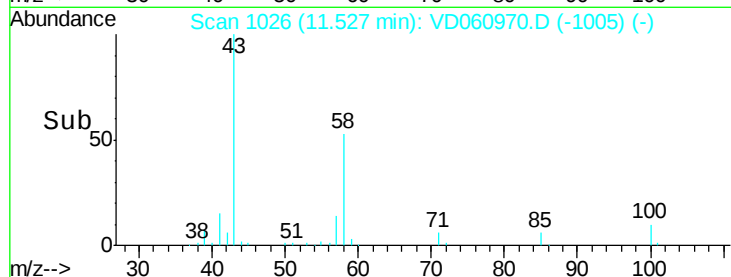
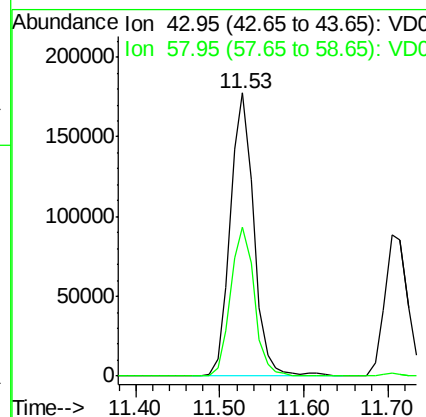
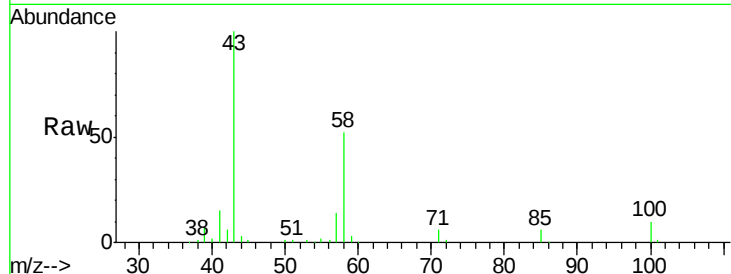
#59
2-Hexanone
Concen: 102.365 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 344228
Ion Ratio Lower Upper
43 100
58 52.4 26.5 79.5

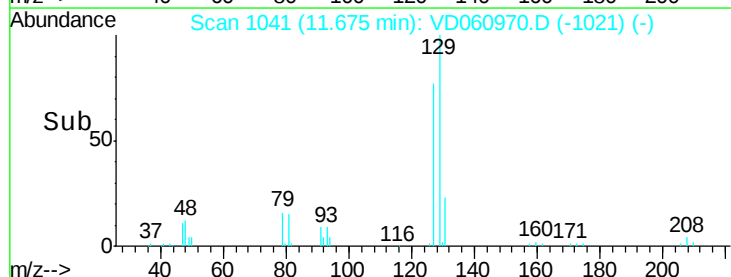
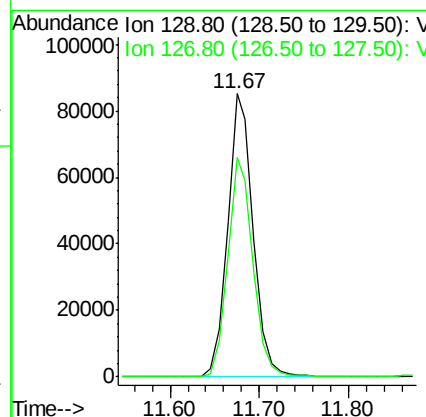
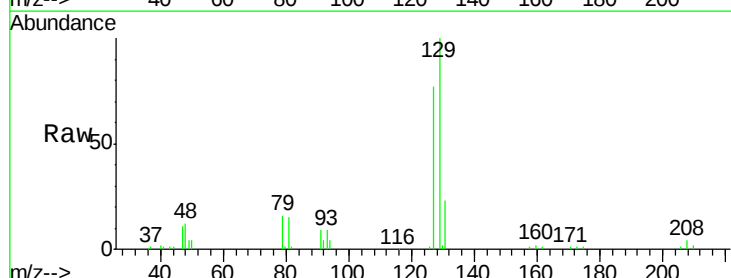
Manual Integrations
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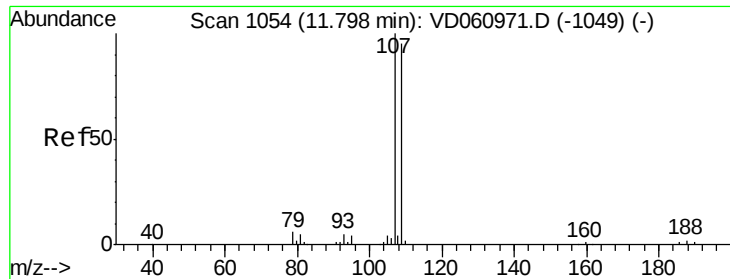
MMDadoda
3/8/2019 9:46:24 PM



#60
Dibromochloromethane
Concen: 19.672 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 129 Resp: 170362
Ion Ratio Lower Upper
129 100
127 77.4 38.3 114.9





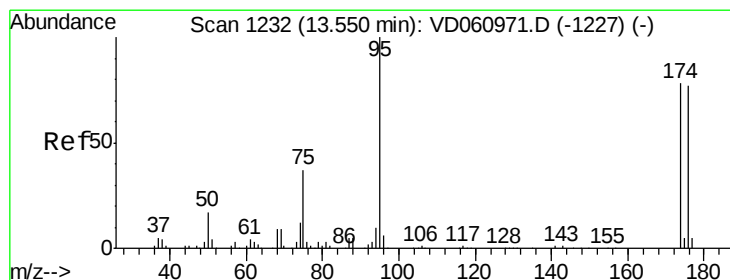
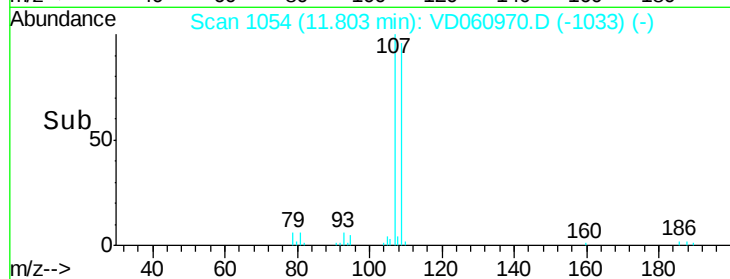
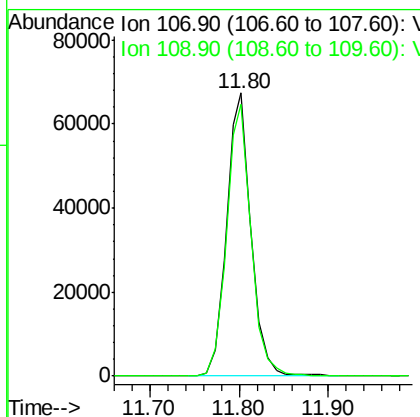
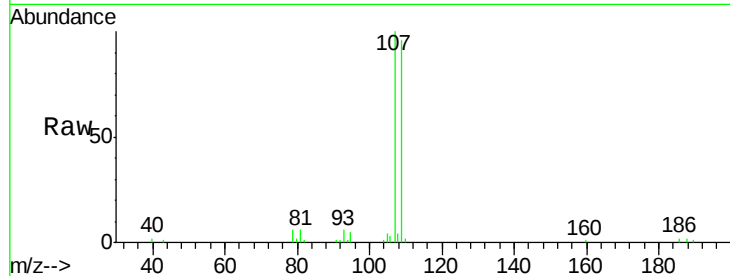
#61
 1,2-Dibromoethane
 Concen: 18.431 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.2	75.6	113.4

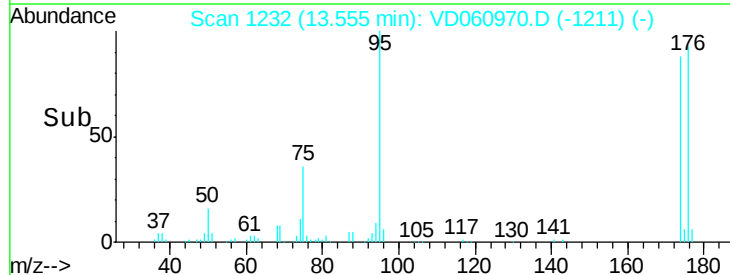
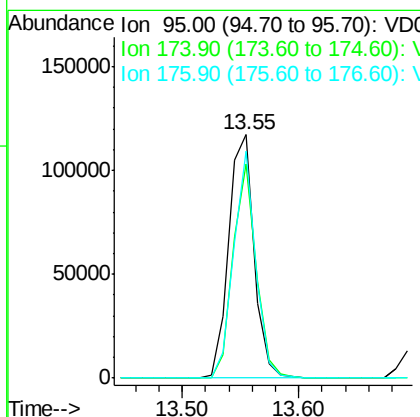
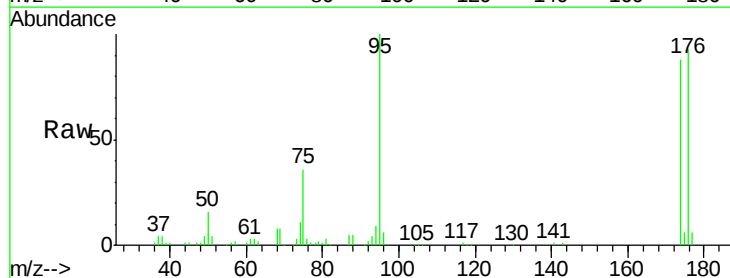
Manual Integrations
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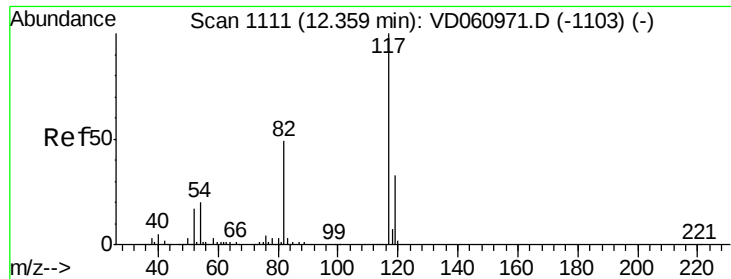
MMDadoda
 3/8/2019 9:46:24 PM



#62
 4-Bromofluorobenzene
 Concen: 18.431 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.2	0.0	155.6
176	93.2	0.0	153.8





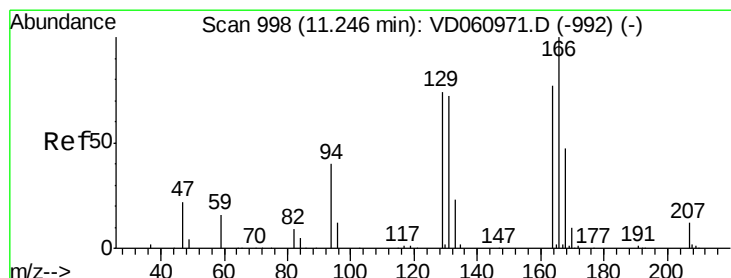
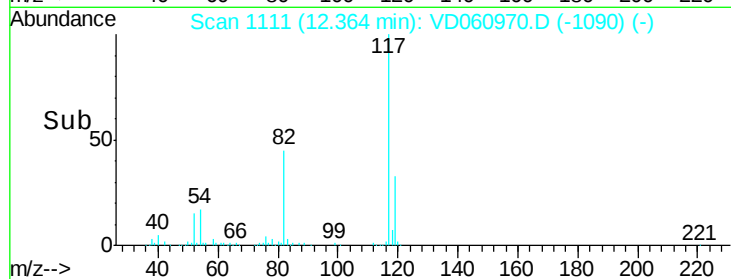
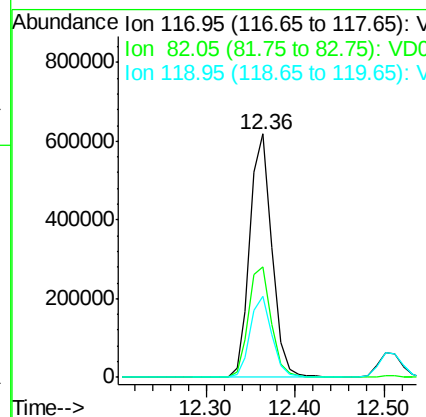
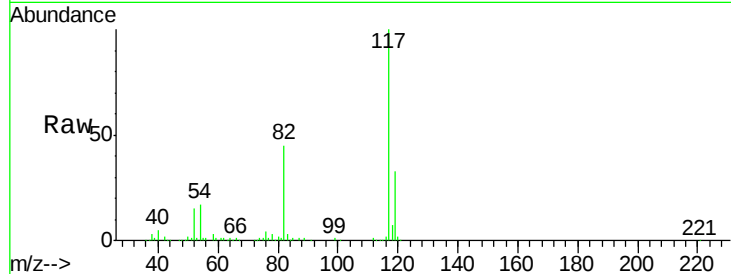
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	45.1	38.9	58.3
119	33.1	26.6	39.8

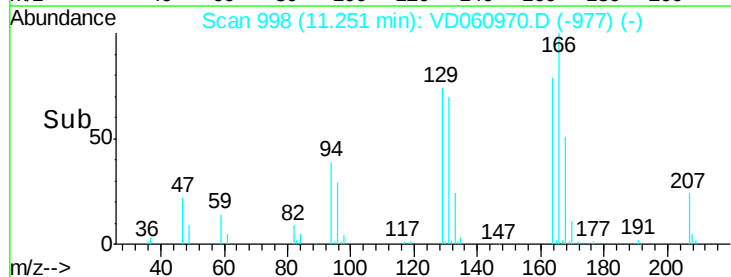
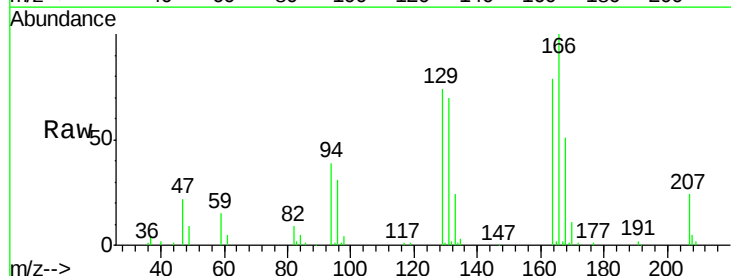
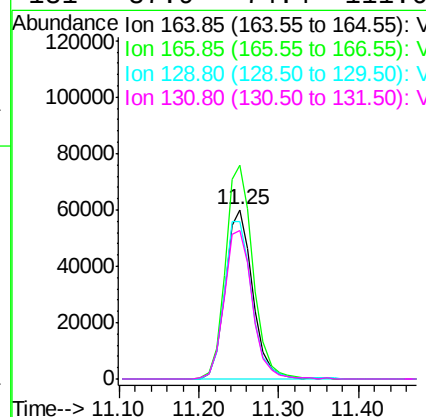
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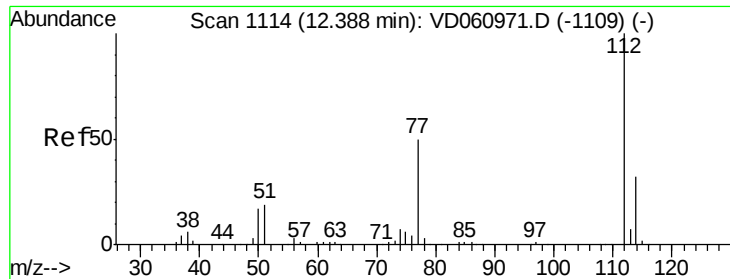
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3/8/2019 9:46:24 PM



#64
Tetrachloroethene
Concen: 18.017 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.4	155.0
129	93.2	76.9	115.3
131	87.9	74.4	111.6





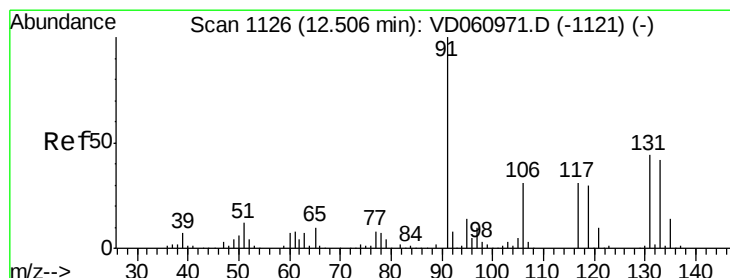
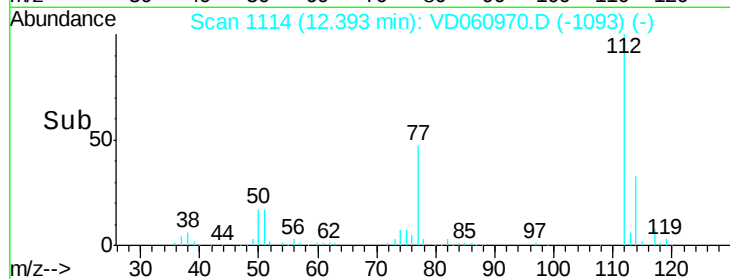
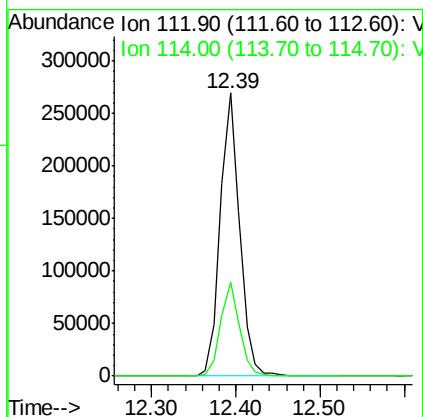
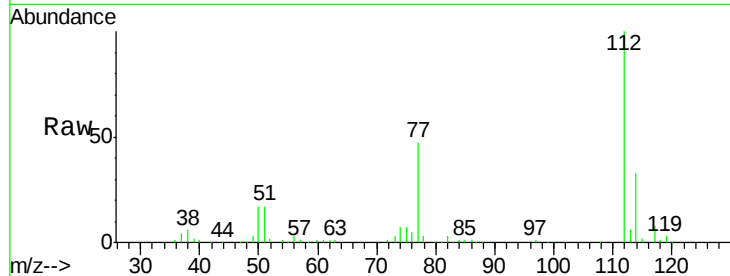
#65
Chlorobenzene
Concen: 18.656 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 432103
Ion Ratio Lower Upper
112 100
114 33.3 26.0 39.0

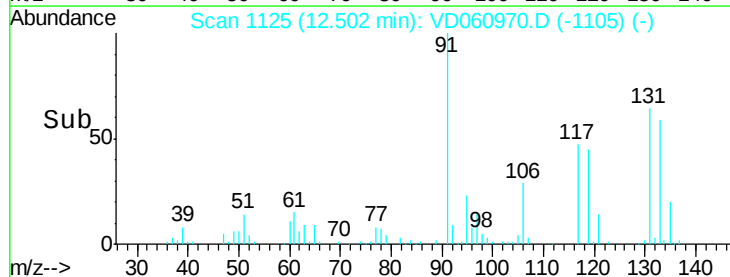
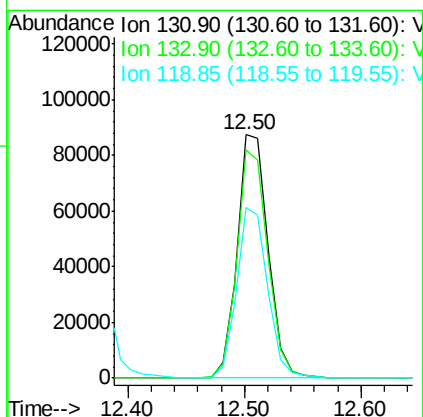
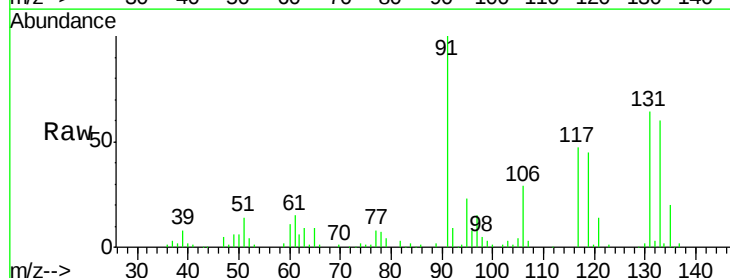
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.161 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion:131 Resp: 160545
Ion Ratio Lower Upper
131 100
133 93.7 47.8 143.3
119 70.3 34.3 102.9





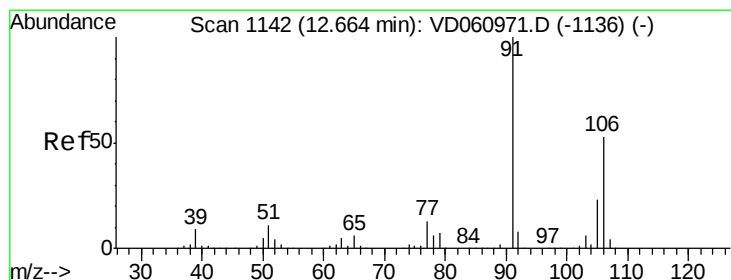
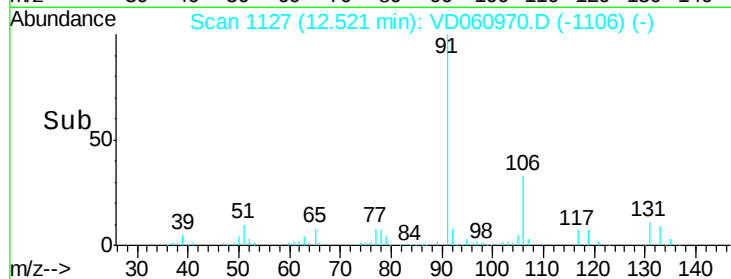
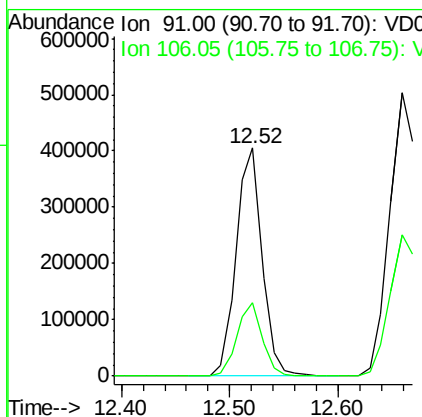
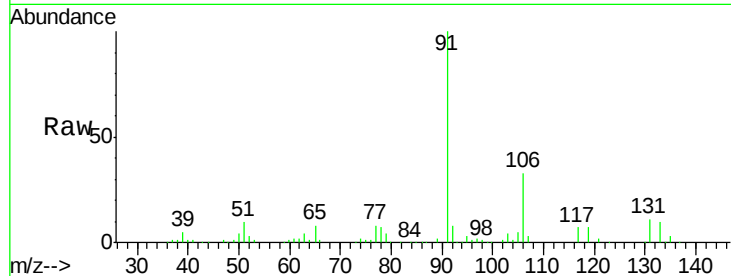
#67
Ethyl Benzene
Concen: 19.945 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 675871
Ion Ratio Lower Upper
91 100
106 32.5 25.7 38.5

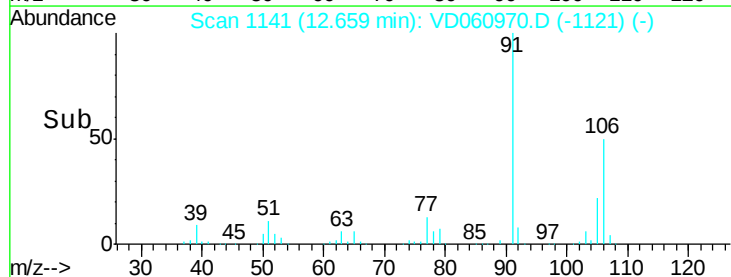
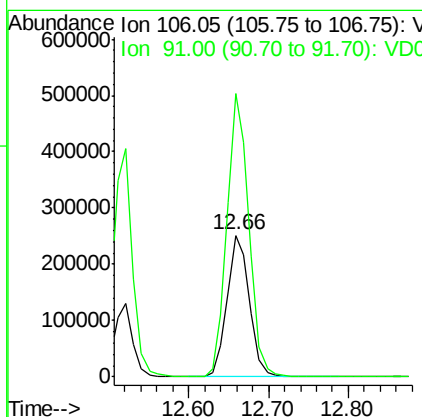
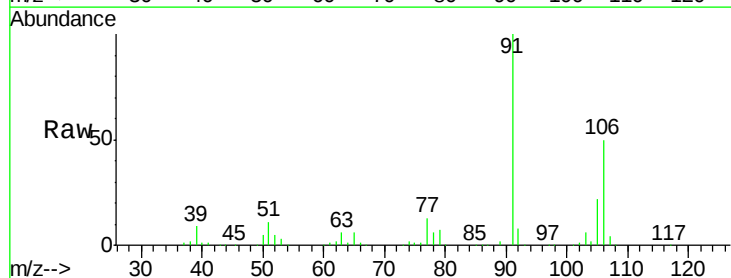
Manual Integrations
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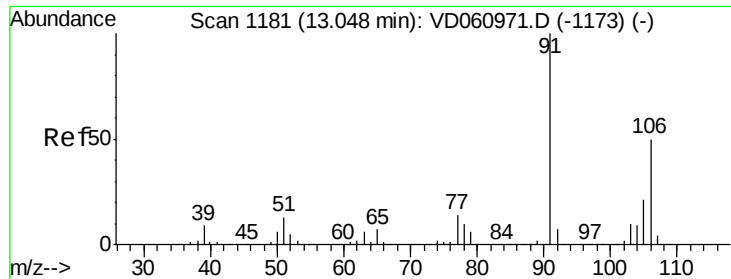
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#68
m/p-Xylenes
Concen: 36.524 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion: 106 Resp: 496347
Ion Ratio Lower Upper
106 100
91 199.7 152.0 228.0





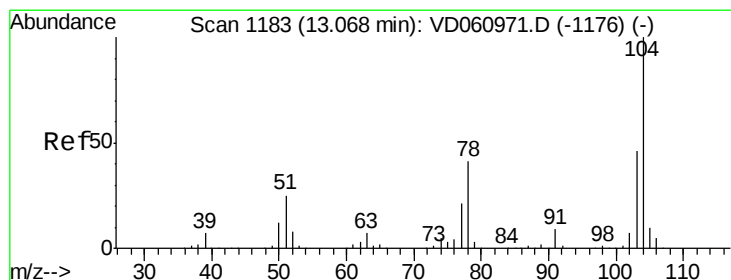
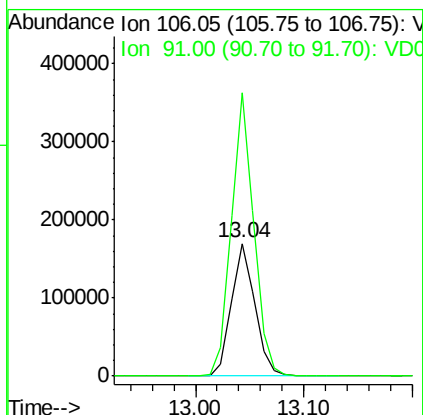
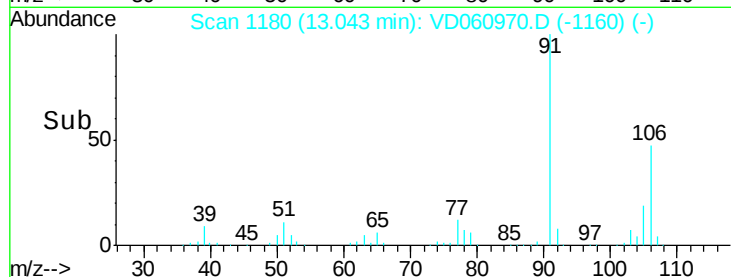
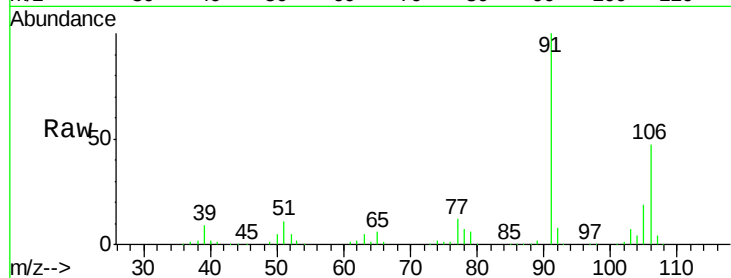
#69
o-Xylene
Concen: 20.429 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 258181
Ion Ratio Lower Upper
106 100
91 213.5 99.8 299.3

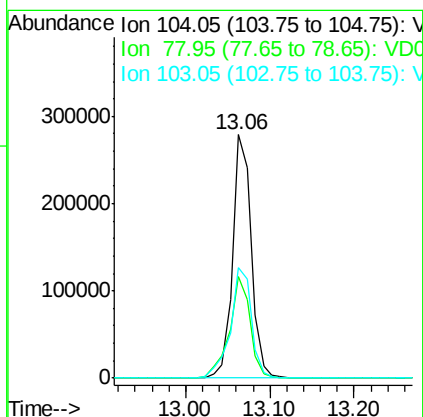
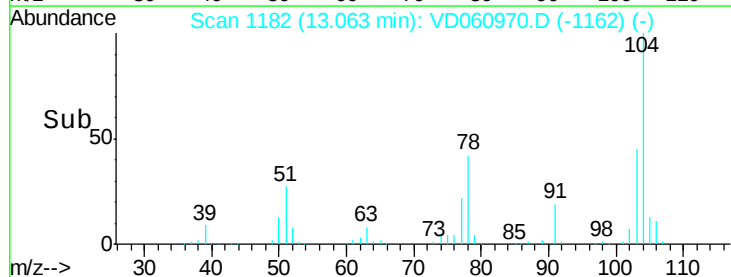
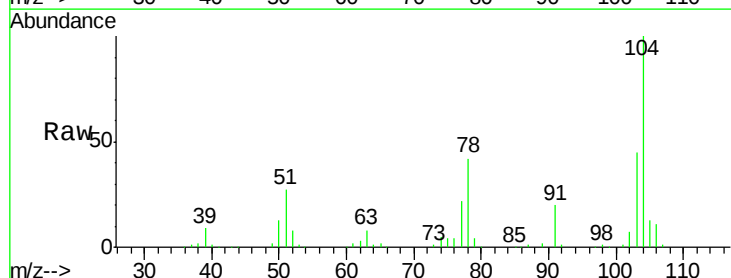
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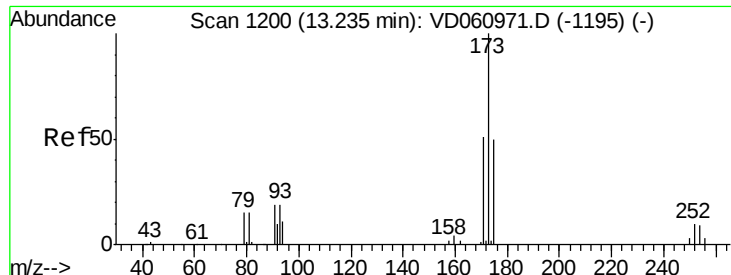
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#70
Styrene
Concen: 20.268 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion:104 Resp: 427534
Ion Ratio Lower Upper
104 100
78 41.9 33.0 49.4
103 45.2 37.1 55.7





#71

Bromoform

Concen: 18.543 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 97777

Ion Ratio Lower Upper

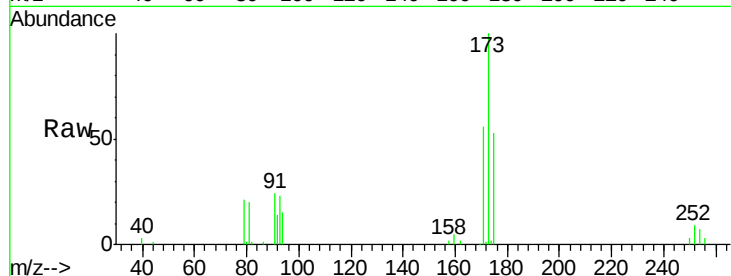
173 100

175 52.9 24.9 74.8

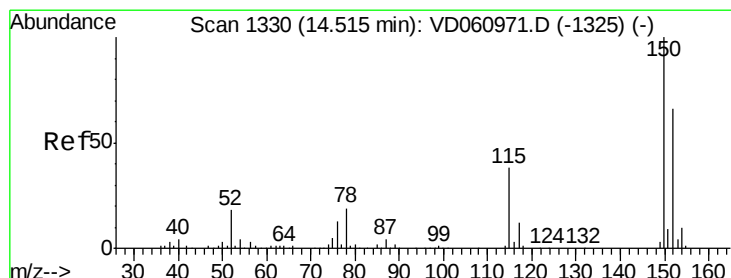
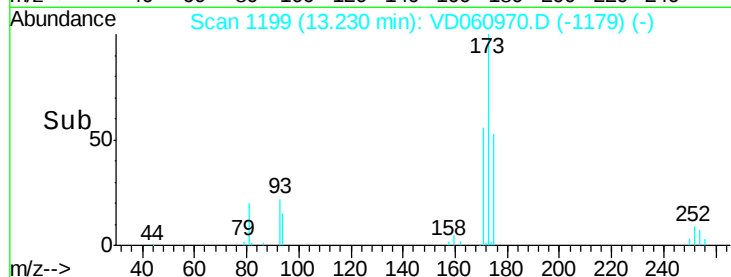
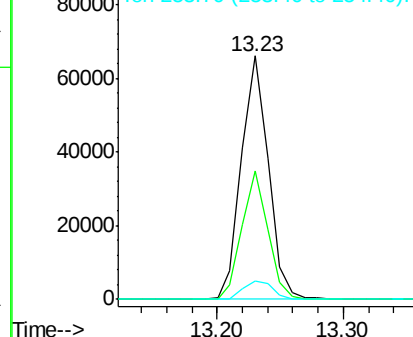
254 7.4 7.3 10.9

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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: 14.51 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

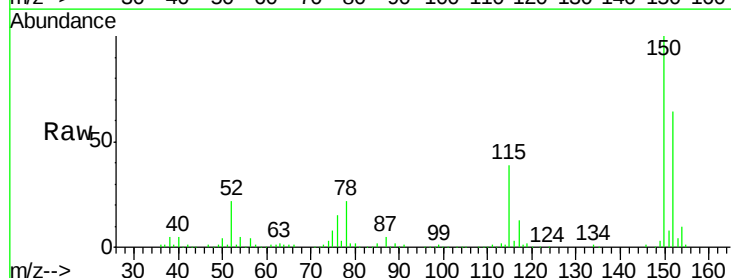
Tgt Ion:152 Resp: 438574

Ion Ratio Lower Upper

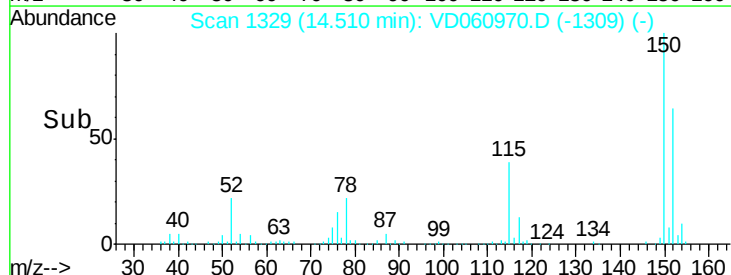
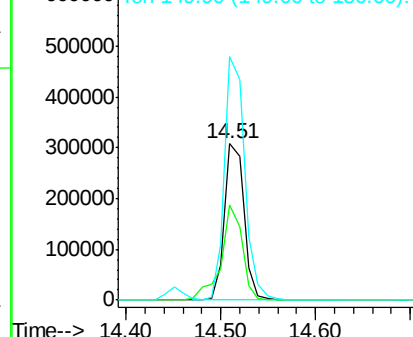
152 100

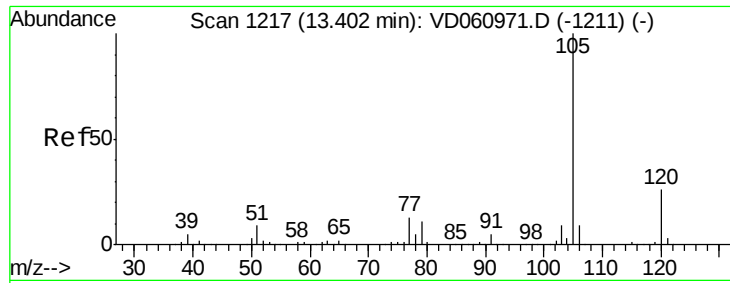
115 61.4 28.6 85.9

150 156.0 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: 20.762 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleID :

VSTDIC020

Tot Ion: 105 Resp: 695924

Ion Ratio Lower Upper

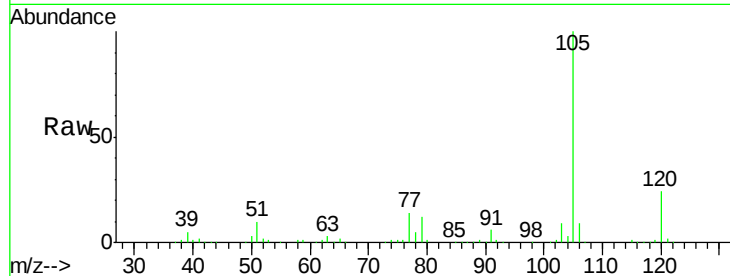
105 100

120 24.5 12.8 38.4

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

500000

400000

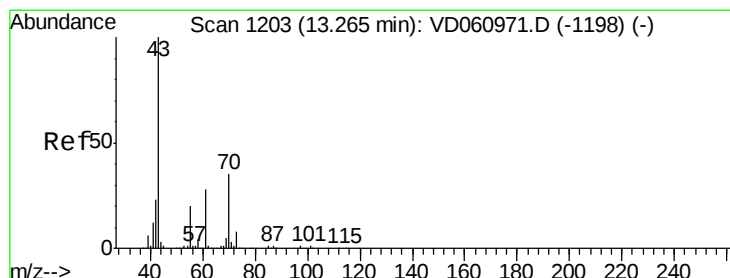
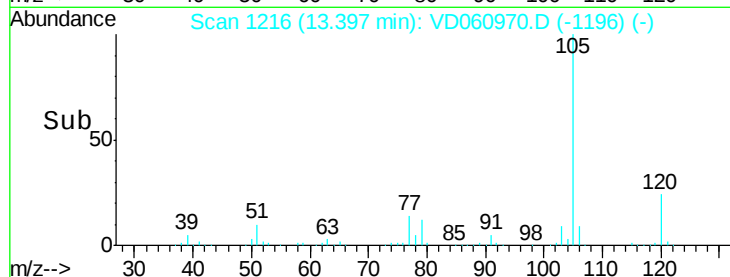
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 18.818 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion: 43 Resp: 190678

Ion Ratio Lower Upper

43 100

70 30.8 27.7 41.5

55 18.1 16.2 24.2

61 27.5 22.3 33.5

Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

200000

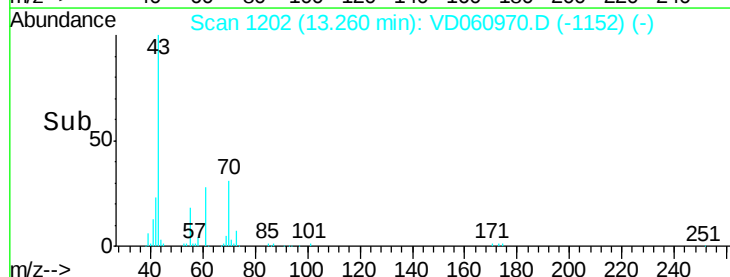
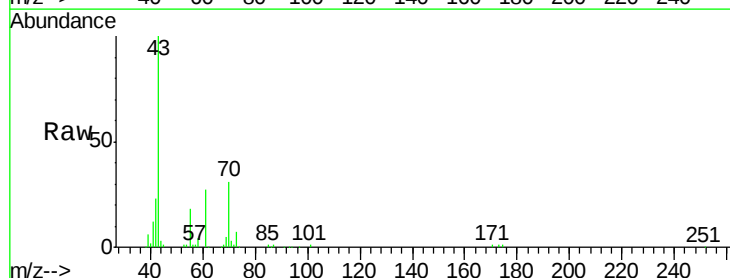
150000

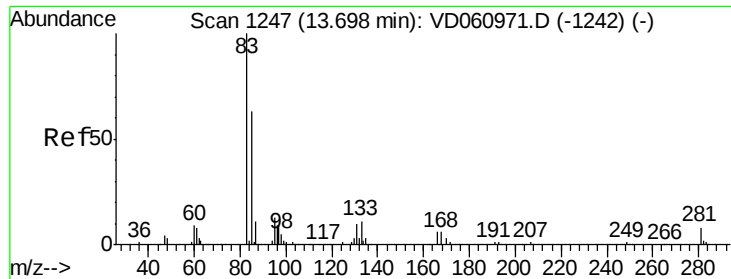
100000

50000

0

Time--> 13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 18.714 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

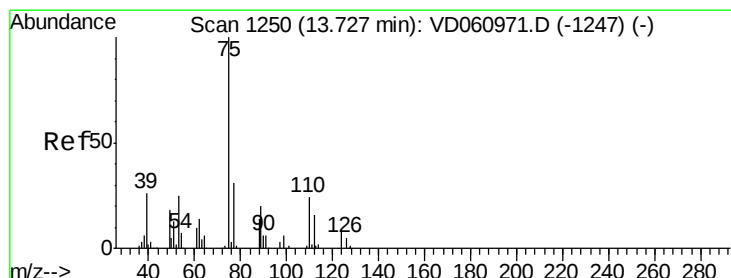
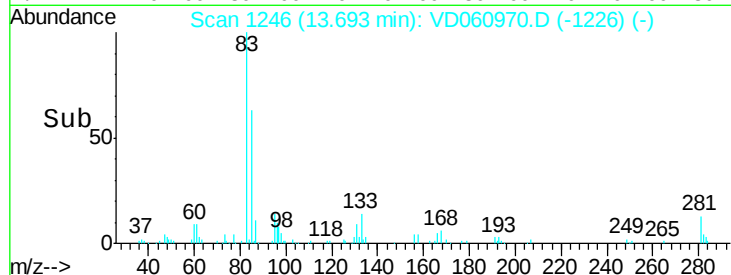
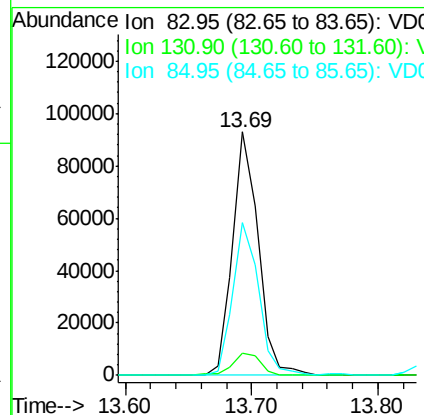
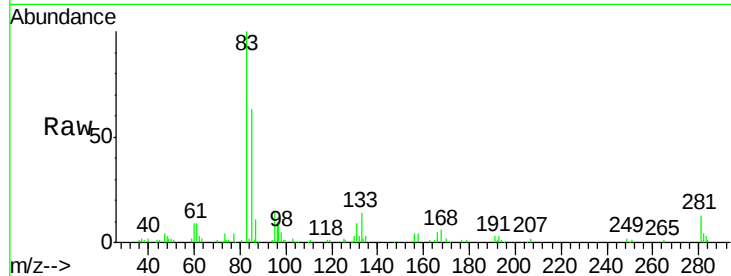
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	130176
Ion Ratio		Lower	Upper
83	100		
131	9.1	5.1	15.3
85	62.9	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.393 ug/l

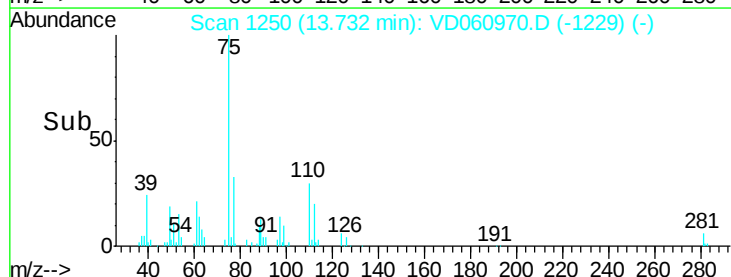
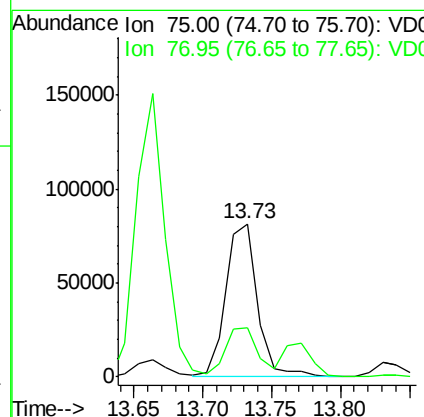
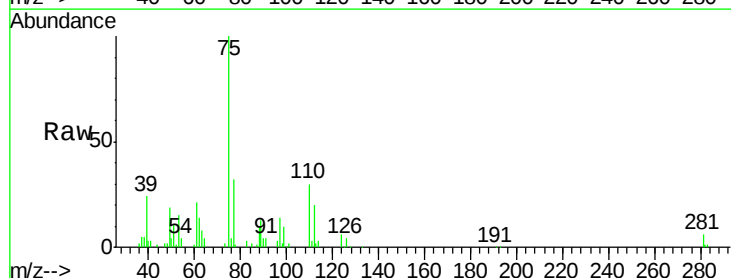
RT: 13.73 min Scan# 1250

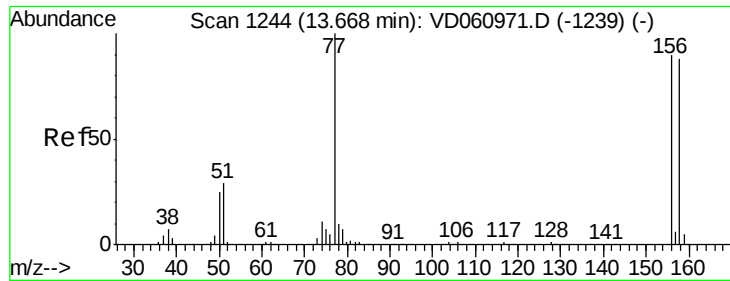
Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	75	Resp:	130029
Ion Ratio		Lower	Upper
75	100		
77	32.5	16.6	49.7





#77

Bromobenzene

Concen: 18.760 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

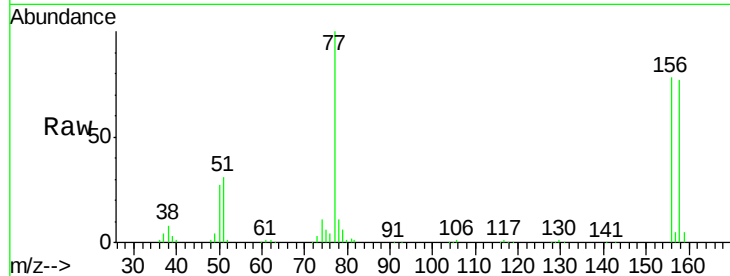
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	127.8	55.5	166.7
158	98.4	49.0	147.0

Manual Integrations
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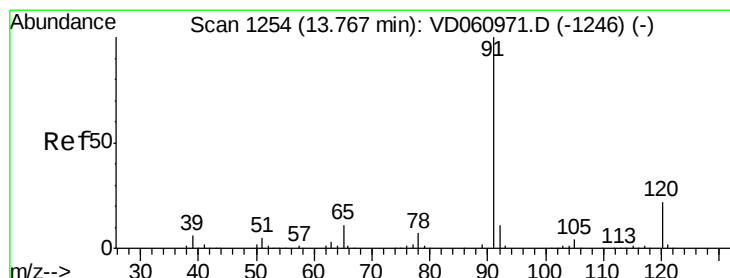
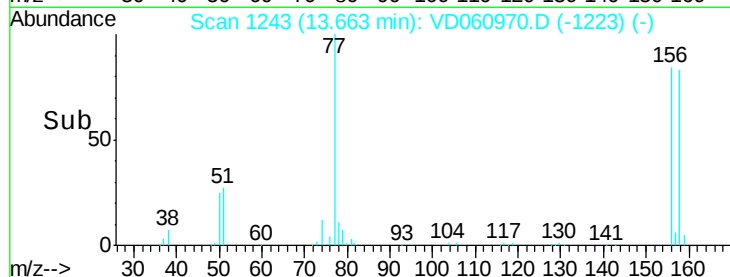
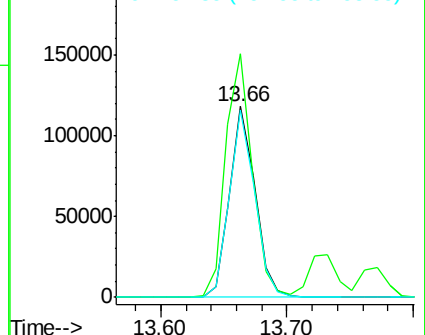
MMDadoda
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.748 ug/l

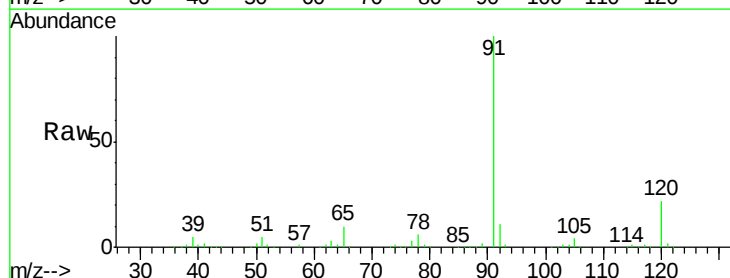
RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD060970.D

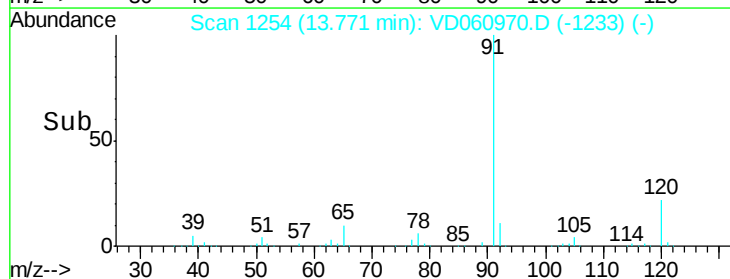
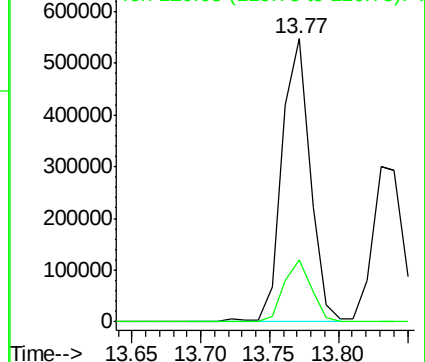
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.0	10.8	32.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.047 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 460935

Ion Ratio Lower Upper

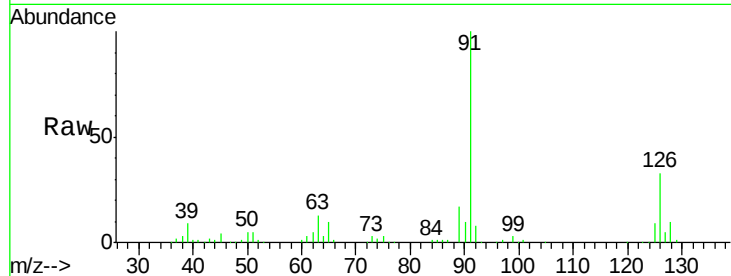
91 100

126 33.0 18.6 55.6

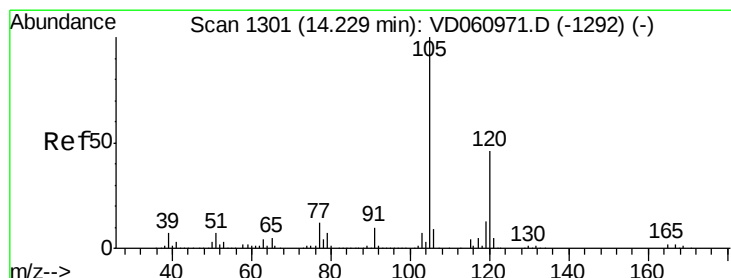
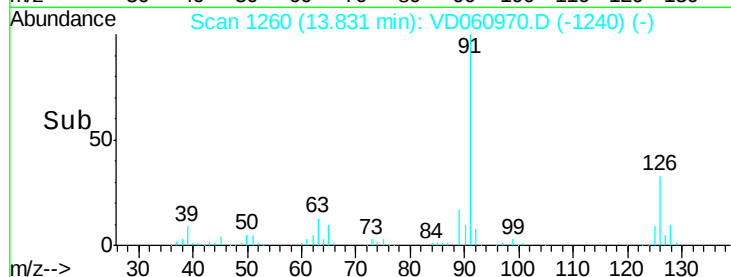
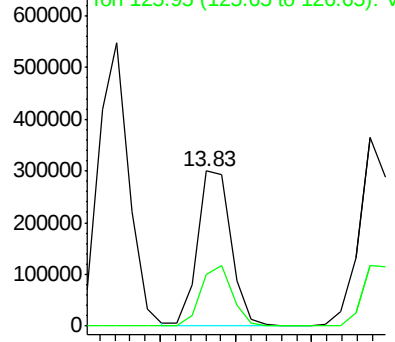
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VD060970.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.622 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD060970.D

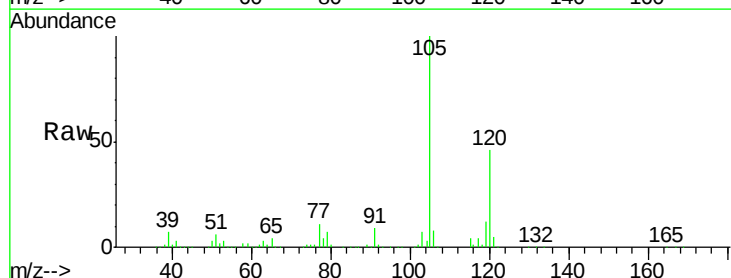
Acq: 7 Mar 2019 16:03

Tgt Ion: 105 Resp: 534082

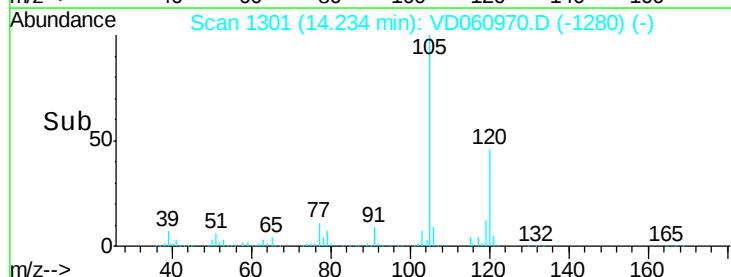
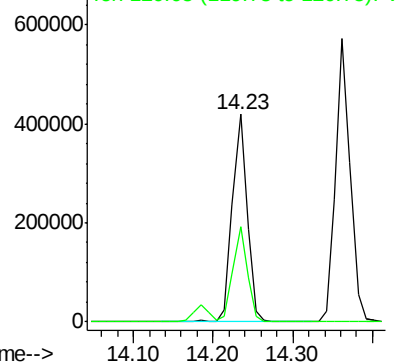
Ion Ratio Lower Upper

105 100

120 46.0 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): VD060970.D (-1280) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.888 ug/l

RT: 13.47 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

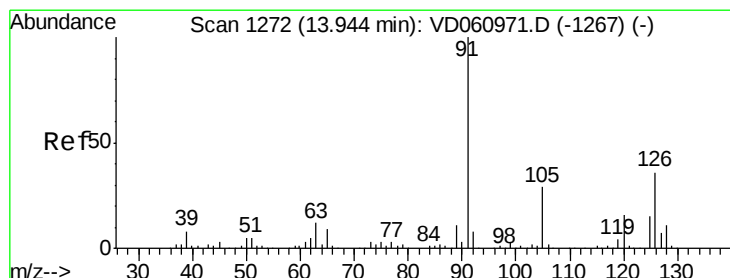
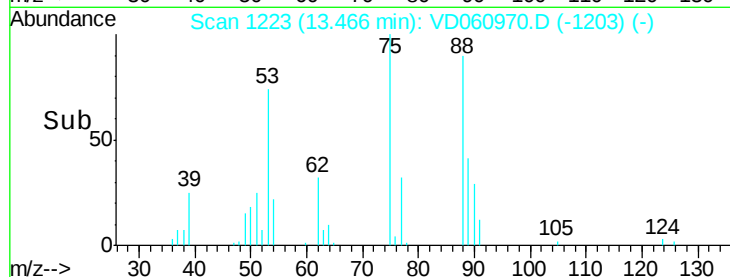
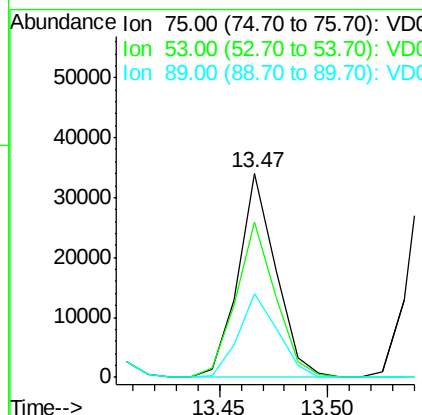
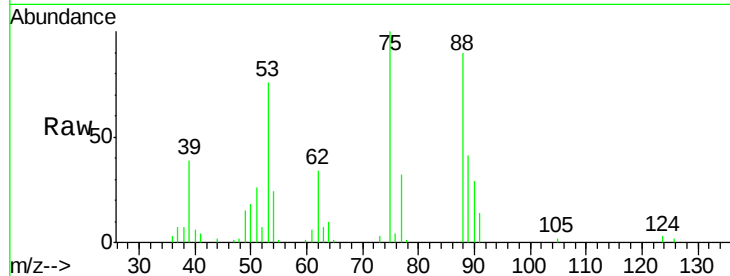
ClientSampled :

VSTDIC020

Tot Ion:	75	Resp:	41447
Ion	Ratio	Lower	Upper
75	100		
53	75.7	64.4	96.6
89	40.8	34.8	52.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.324 ug/l

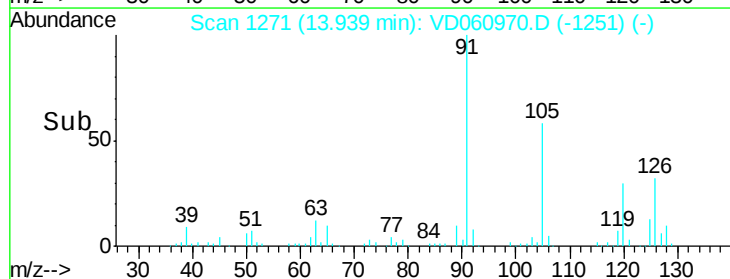
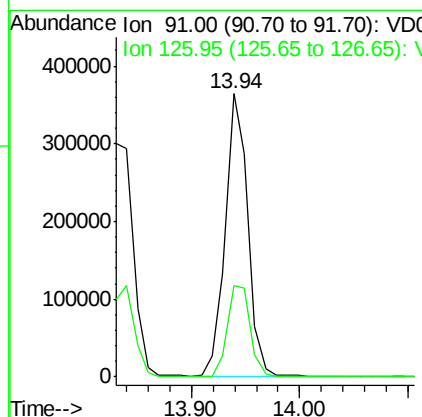
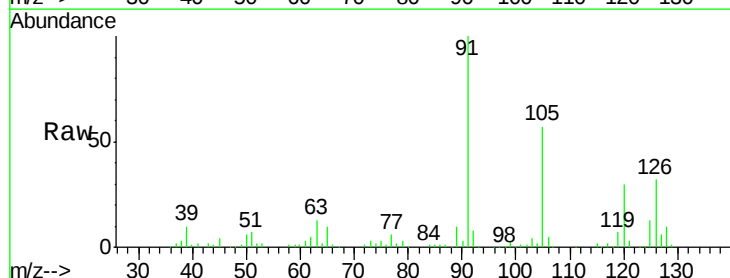
RT: 13.94 min Scan# 1271

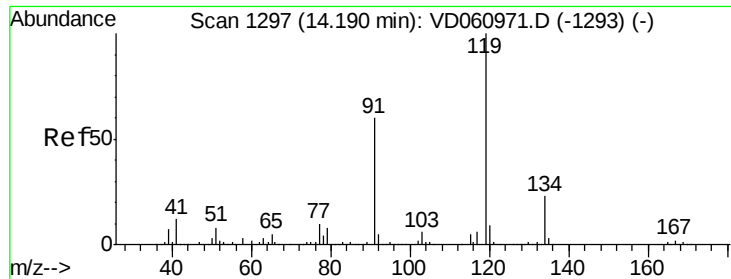
Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	91	Resp:	524484
Ion	Ratio	Lower	Upper
91	100		
126	32.3	18.0	54.0





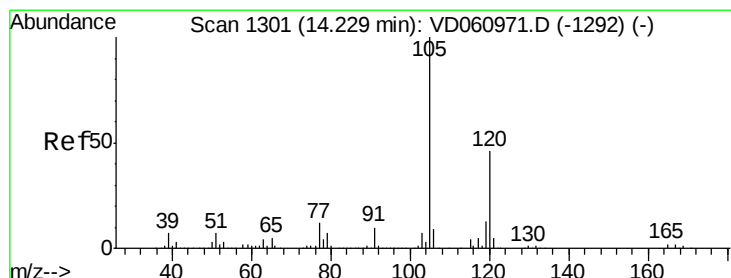
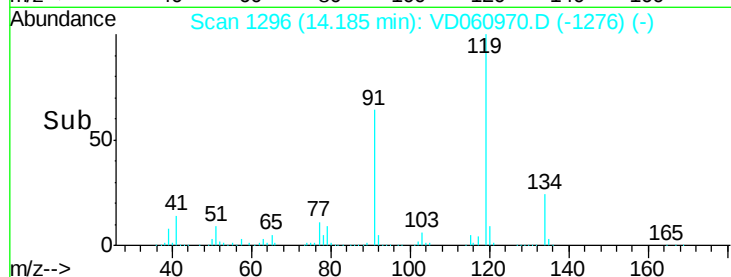
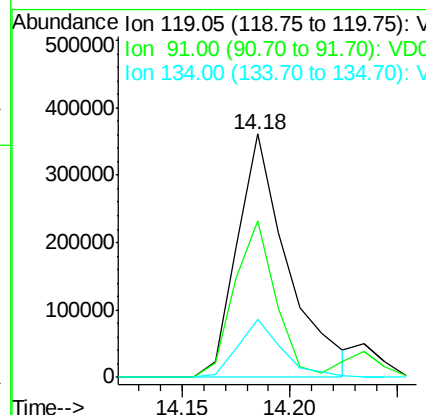
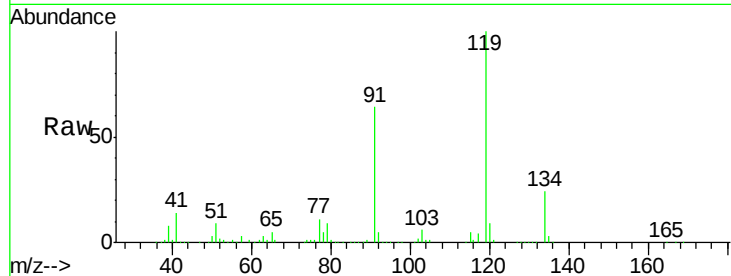
#83
 tert-Butylbenzene
 Concen: 20.535 ug/l m
 RT: 14.18 min Scan# 1296
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	592045		
91	64.2	30.1	90.3	
134	24.0	11.6	34.7	

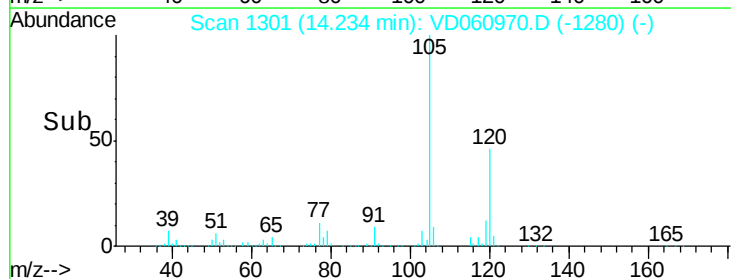
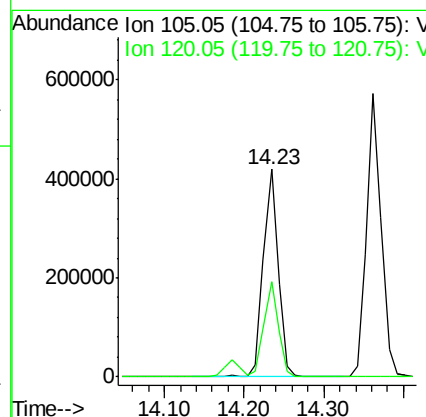
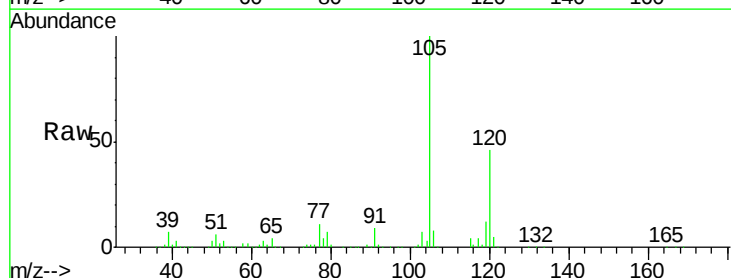
Manual Integrations
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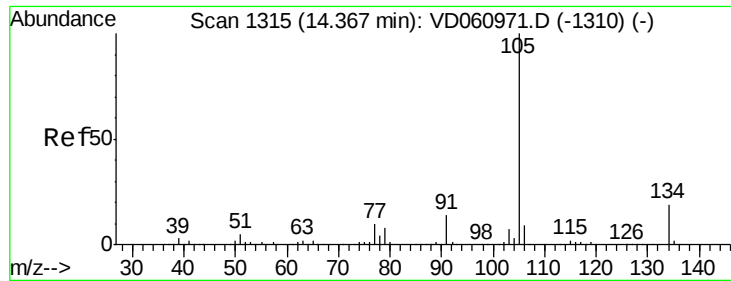
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.622 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	534082		
120	46.0	22.9	68.5	





#85

sec-Butylbenzene

Concen: 21.567 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 725598

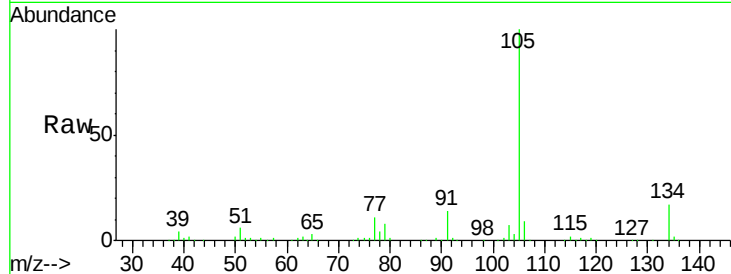
Ion Ratio Lower Upper

105 100

134 17.0 9.4 28.2

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.36

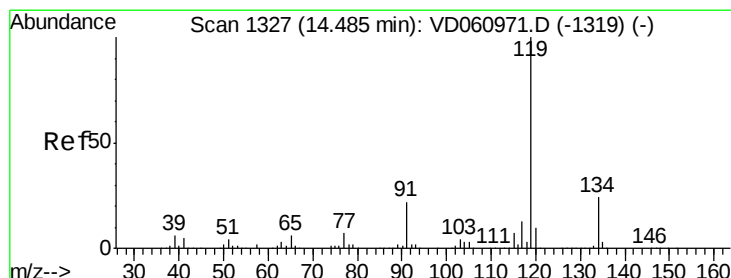
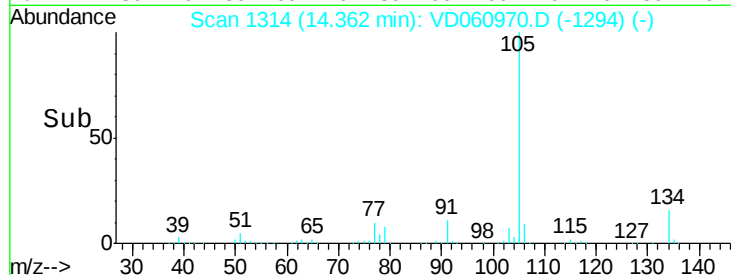
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.051 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

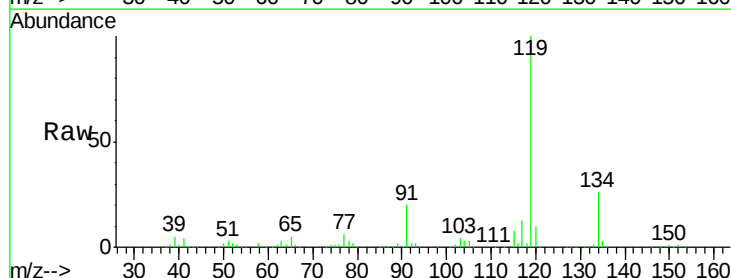
Tgt Ion:119 Resp: 555771

Ion Ratio Lower Upper

119 100

134 25.8 12.0 36.1

91 19.9 11.2 33.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.49

500000

400000

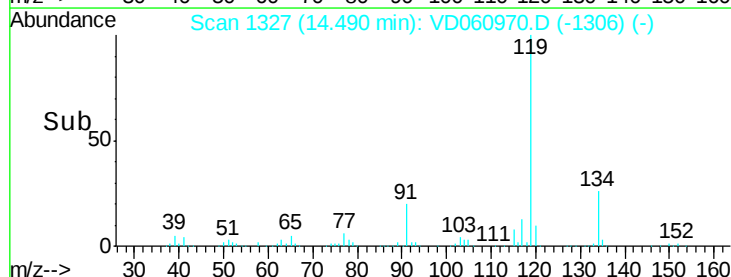
300000

200000

100000

0

Time-->





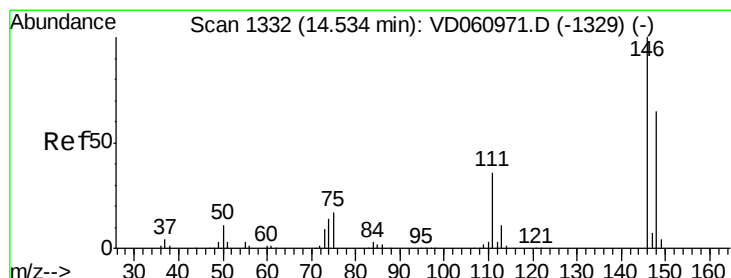
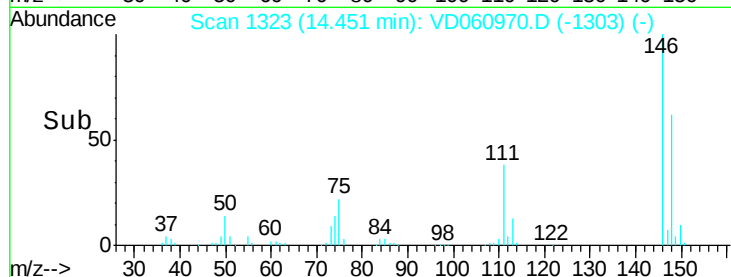
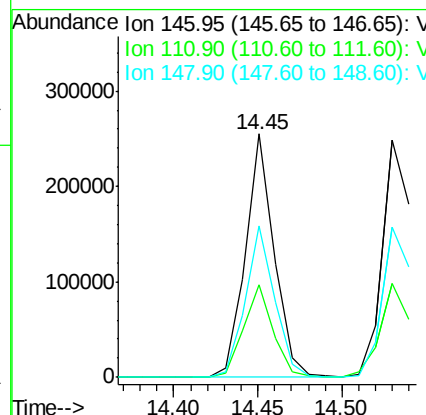
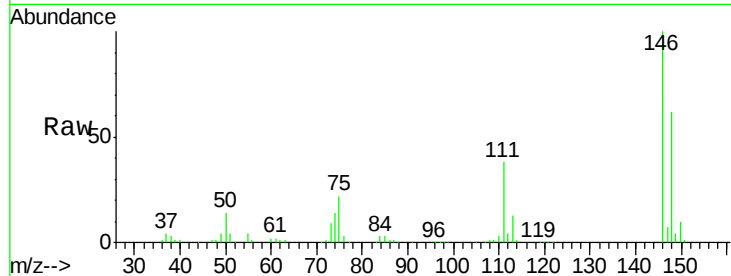
#87
 1,3-Dichlorobenzene
 Concen: 20.221 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.4	55.4
148	62.0	32.5	97.4

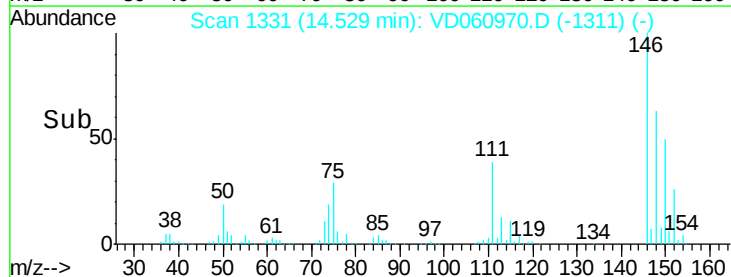
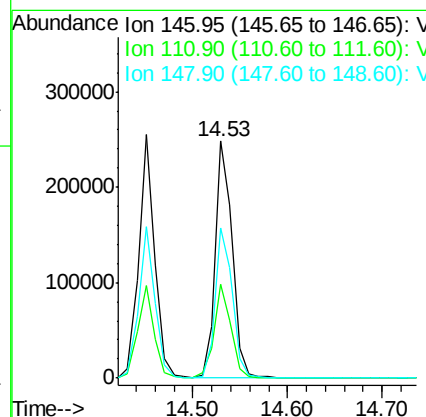
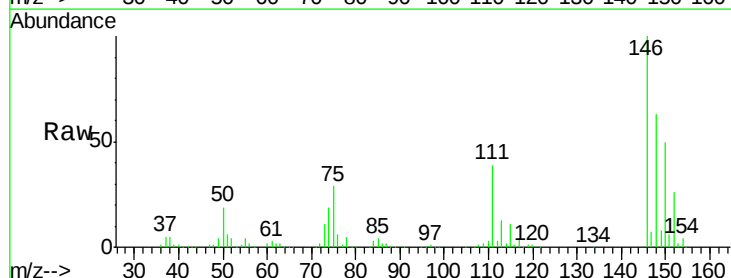
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#88
 1,4-Dichlorobenzene
 Concen: 21.146 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	18.4	55.2
148	63.5	32.5	97.5





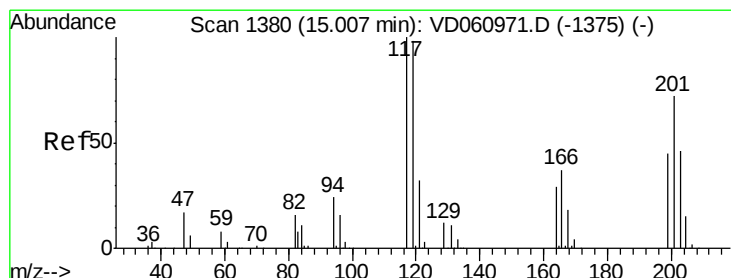
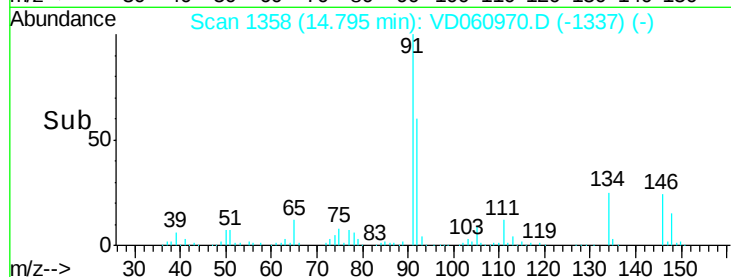
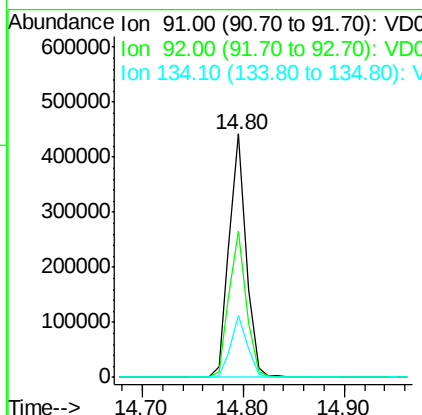
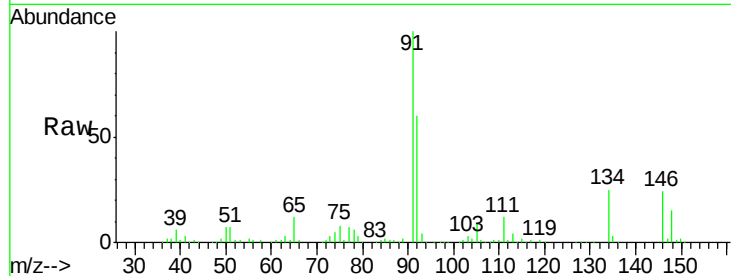
#89
n-Butylbenzene
Concen: 20.108 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.2	30.6	91.8
134	25.2	11.0	33.0

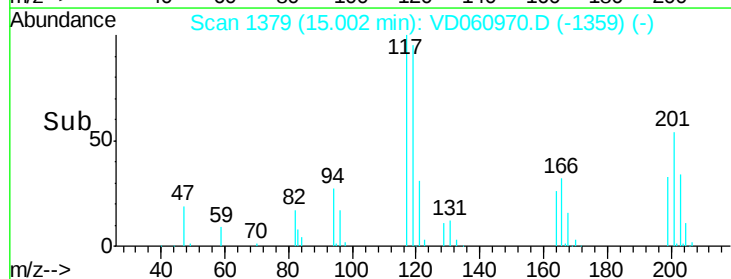
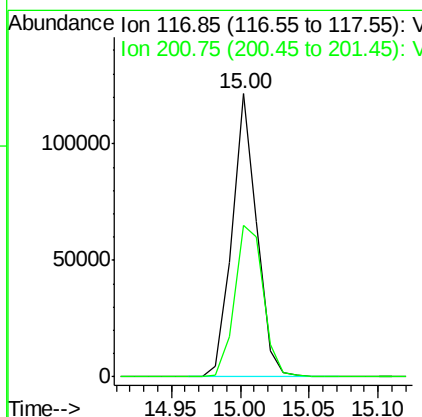
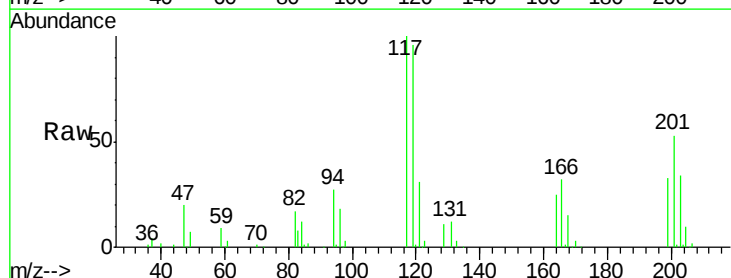
Manual Integrations
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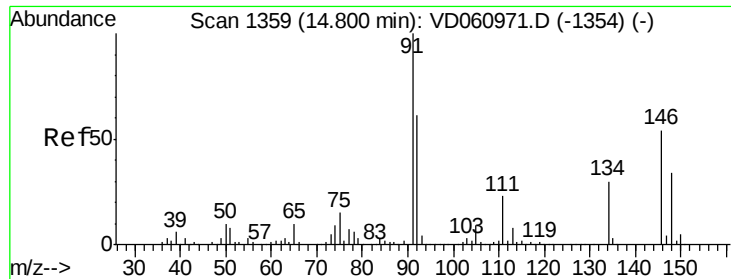
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#90
Hexachloroethane
Concen: 18.923 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.00 min
Lab File: VD060970.D
Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.3	36.2	108.6





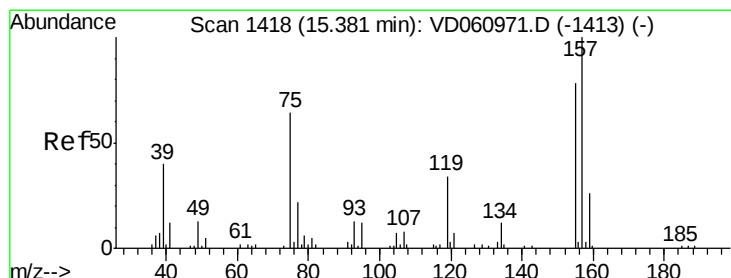
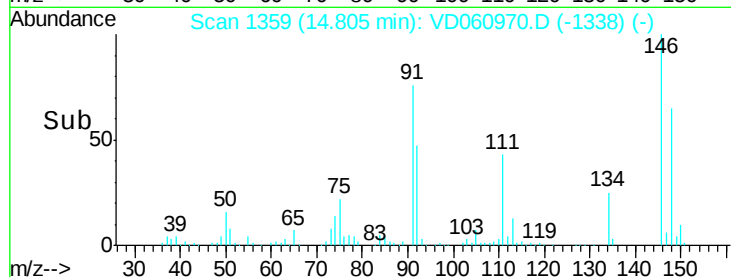
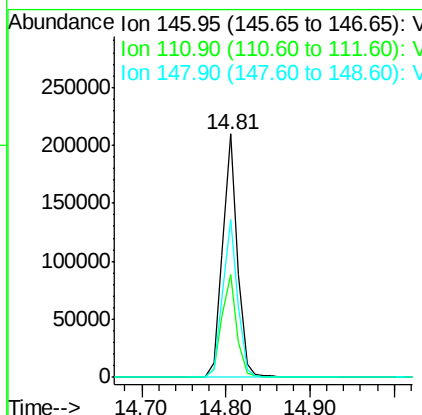
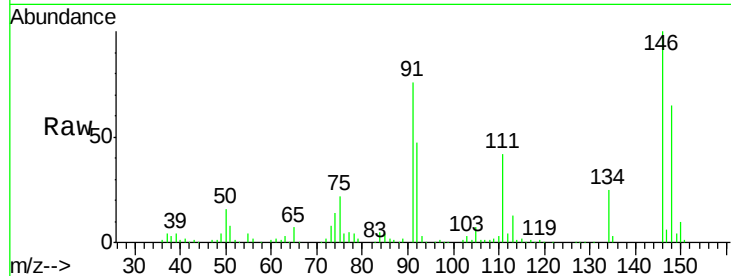
#91
 1,2-Dichlorobenzene
 Concen: 19.688 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	64.8	30.9	92.8

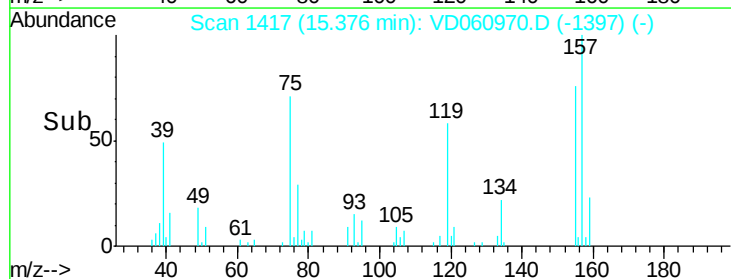
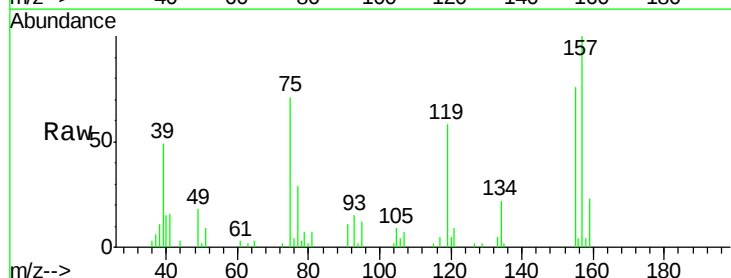
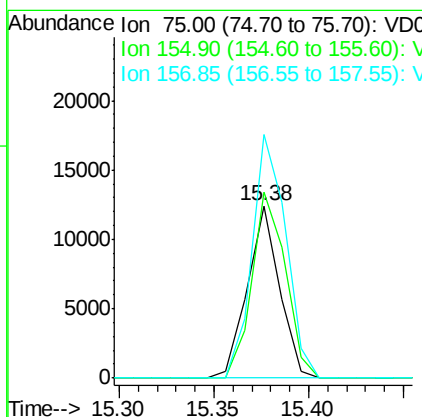
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.847 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	108.0	61.2	183.5
157	141.4	78.3	234.8





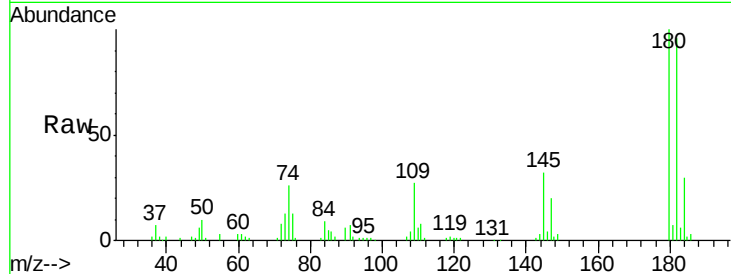
#93
 1,2,4-Trichlorobenzene
 Concen: 16.701 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

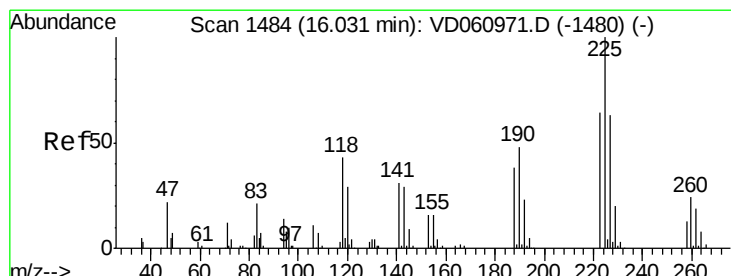
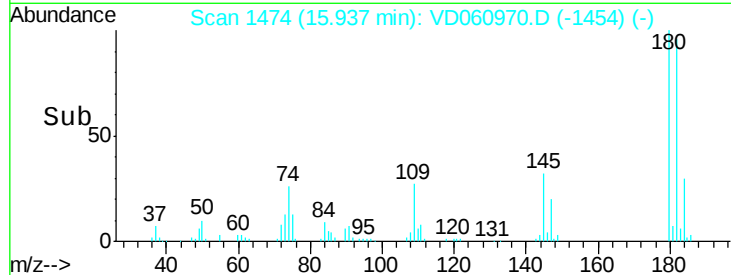
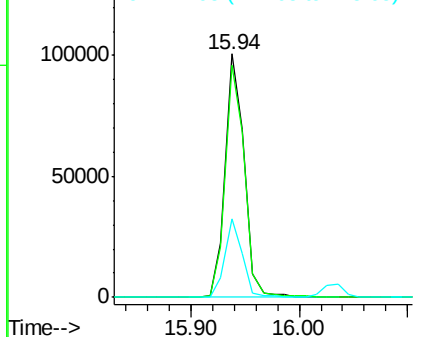
Tot Ion	Ratio	Resp	Lower	Upper
180	100	123011		
182	95.6	47.3	142.0	
145	32.2	14.4	43.0	

Manual Integrations
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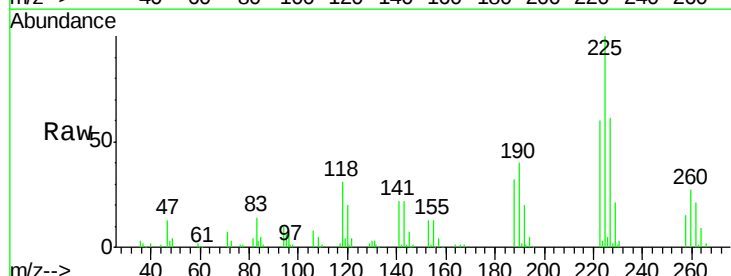


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

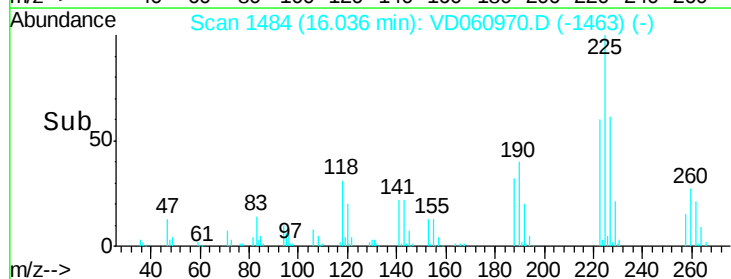
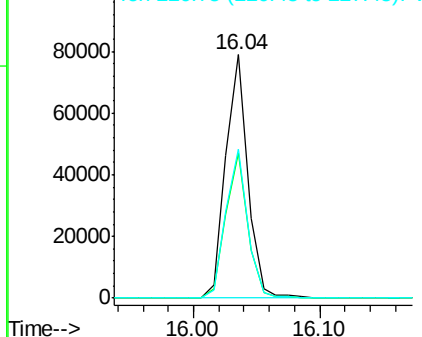


#94
 Hexachlorobutadiene
 Concen: 20.195 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD060970.D
 Acq: 7 Mar 2019 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	95084		
223	59.8	31.8	95.3	
227	61.3	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: 16.876 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Instrument :

MSVOA_D

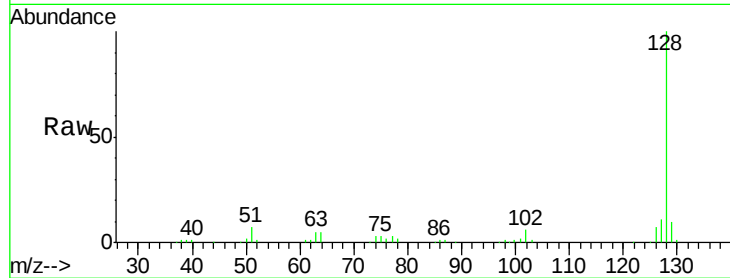
ClientSampleId :

VSTDIC020

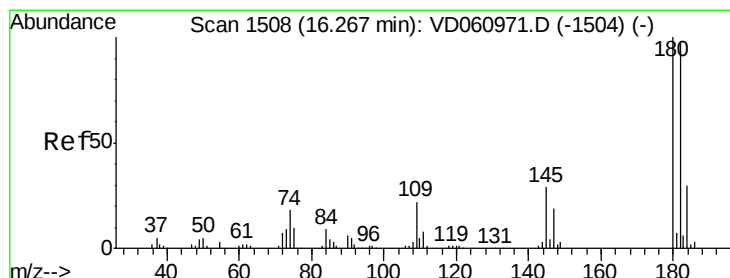
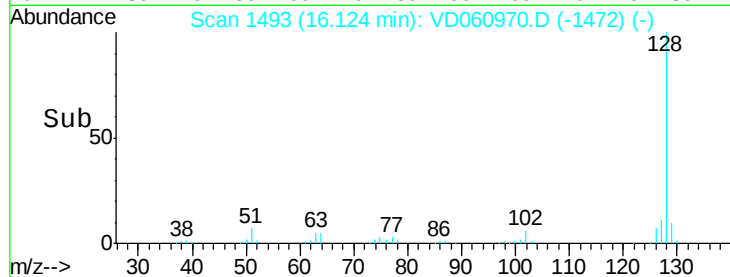
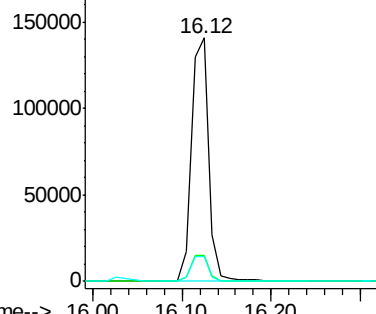
Tot Ion:	128	Resp:	192064
Ion Ratio	Lower	Upper	
128	100		
127	10.8	9.8	14.8
129	10.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
3/8/2019 9:46:24 PM



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



#96

1,2,3-Trichlorobenzene

Concen: 15.090 ug/l

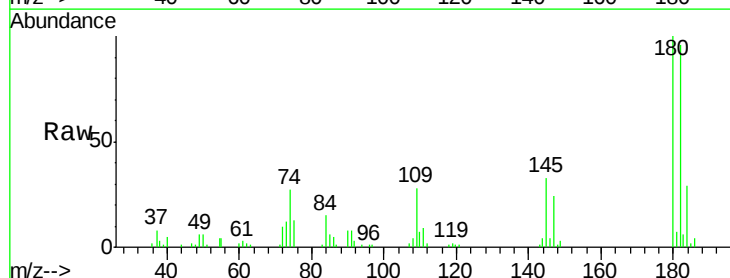
RT: 16.26 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VD060970.D

Acq: 7 Mar 2019 16:03

Tgt Ion:	180	Resp:	60293
Ion Ratio	Lower	Upper	
180	100		
182	96.0	48.6	145.8
145	32.5	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

