

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013019\
 Data File : VD060801.D
 Acq On : 30 Jan 2019 13:06
 Operator : VA/AP
 Sample : VD0130SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/1/2019 3:55:37 PM

Quant Time: Jan 31 06:36:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.82	168	524752	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.99	114	763444	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.17	117	593172	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.33	152	302470	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.23	65	417683	51.92	ug/l	0.02
Spiked Amount	50.000		Recovery	=	103.84%	
35) Dibromofluoromethane	6.70	113	378073	51.64	ug/l	0.03
Spiked Amount	50.000		Recovery	=	103.28%	
50) Toluene-d8	10.21	98	854041	49.95	ug/l	0.02
Spiked Amount	50.000		Recovery	=	99.90%	
62) 4-Bromofluorobenzene	13.37	95	391693	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.59	85	123360	19.335	ug/l	100
3) Chloromethane	1.77	50	74315	19.455	ug/l	92
4) Vinyl Chloride	1.86	62	80469	19.846	ug/l #	87
5) Bromomethane	2.15	94	22354	17.453	ug/l	90
6) Chloroethane	2.25	64	29966	18.418	ug/l #	85
7) Trichlorofluoromethane	2.50	101	163203	20.447	ug/l	100
8) Diethyl Ether	2.81	74	21554	18.326	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.08	101	91516	22.625	ug/l	89
10) Methyl Iodide	3.23	142	81970	19.356	ug/l #	98
11) Tert butyl alcohol	3.95	59	30977	80.573	ug/l #	89
12) 1,1-Dichloroethene	3.06	96	65938	23.855	ug/l	97
13) Acrolein	2.98	56	18894	130.177	ug/l	87
14) Allyl chloride	3.51	41	126281	19.631	ug/l #	93
15) Acrylonitrile	4.07	53	90547	105.113	ug/l	92
16) Acetone	3.15	43	123593	106.367	ug/l	98
17) Carbon Disulfide	3.30	76	209113	21.357	ug/l	96
18) Methyl Acetate	3.53	43	42350	18.385	ug/l	100
19) Methyl tert-butyl Ether	4.09	73	254443	20.163	ug/l	94
20) Methylene Chloride	3.70	84	103747	17.248	ug/l	97
21) trans-1,2-Dichloroethene	4.07	96	107359	22.032	ug/l	98
22) Diisopropyl ether	4.91	45	326042	19.669	ug/l	96
23) Vinyl Acetate	4.86	43	974463	102.083	ug/l	99
24) 1,1-Dichloroethane	4.79	63	219213	20.201	ug/l	99
25) 2-Butanone	5.87	43	142864	96.060	ug/l	95
26) 2,2-Dichloropropane	5.81	77	240128	21.001	ug/l	95
27) cis-1,2-Dichloroethene	5.83	96	111024	20.005	ug/l	86
28) Bromochloromethane	6.22	49	87244	20.609	ug/l	93
29) Tetrahydrofuran	6.25	42	70126	98.188	ug/l	98
30) Chloroform	6.44	83	253166	19.739	ug/l	95
31) Cyclohexane	6.73	56	164408	22.268	ug/l	95
32) 1,1,1-Trichloroethane	6.65	97	260841	21.118	ug/l	98
36) 1,1-Dichloropropene	6.92	75	171565	18.822	ug/l	96
37) Ethyl Acetate	5.96	43	72519	17.822	ug/l #	94
38) Carbon Tetrachloride	6.89	117	225292	19.710	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.65	83	153815	20.150	ug/l	98
40) Benzene	7.23	78	346077	19.237	ug/l	97
41) Methacrylonitrile	6.22	41	28793m	11.142	ug/l	
42) 1,2-Dichloroethane	7.36	62	201538	19.283	ug/l	99
43) Isopropyl Acetate	9.03	43	97438	18.360	ug/l #	91
44) Trichloroethene	8.32	130	120952	19.832	ug/l	98
45) 1,2-Dichloropropane	8.72	63	93046	19.106	ug/l	99
46) Dibromomethane	8.85	93	76078	20.123	ug/l	94
47) Bromodichloromethane	9.16	83	197928	19.396	ug/l	97
48) Methyl methacrylate	8.90	41	66970	18.299	ug/l	93
49) 1,4-Dioxane	8.87	88	10927	365.924	ug/l	94
51) 4-Methyl-2-Pentanone	10.09	43	308292	89.703	ug/l	99
52) Toluene	10.30	92	230673	20.213	ug/l	100
53) t-1,3-Dichloropropene	10.71	75	175028	19.499	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	191462	20.800	ug/l	96
55) 1,1,2-Trichloroethane	10.99	97	73160	18.803	ug/l	97
56) Ethyl methacrylate	10.84	69	92637	19.654	ug/l	96
57) 1,3-Dichloropropane	11.20	76	131223	19.734	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.65	63	249336	100.822	ug/l	98
59) 2-Hexanone	11.33	43	234973	90.928	ug/l	96
60) Dibromochloromethane	11.49	129	128062	18.308	ug/l	99
61) 1,2-Dibromoethane	11.61	107	89384	19.507	ug/l	95
64) Tetrachloroethene	11.05	164	112743	20.710	ug/l	95
65) Chlorobenzene	12.21	112	274042	20.217	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.31	131	125577	21.563	ug/l	99
67) Ethyl Benzene	12.32	91	548229	22.491	ug/l	100
68) m/p-Xylenes	12.47	106	336196	42.394	ug/l	92
69) o-Xylene	12.86	106	172041	21.919	ug/l	90
70) Styrene	12.88	104	284392	21.607	ug/l	98
71) Bromoform	13.04	173	82821	18.875	ug/l	94
73) Isopropylbenzene	13.21	105	510923	21.186	ug/l	98
74) N-amyl acetate	13.07	43	145472	19.622	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.51	83	83857	19.097	ug/l	95
76) 1,2,3-Trichloropropane	13.55	75	110789	19.974	ug/l	93
77) Bromobenzene	13.48	156	124723	20.119	ug/l	91
78) n-propylbenzene	13.58	91	642367	21.218	ug/l	99
79) 2-Chlorotoluene	13.65	91	405890	21.981	ug/l	100
80) 1,3,5-Trimethylbenzene	14.05	105	446696	21.516	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.28	75	27206	18.814	ug/l	92
82) 4-Chlorotoluene	13.75	91	458300	22.331	ug/l	89
83) tert-Butylbenzene	14.00	119	489765	22.548	ug/l	96
84) 1,2,4-Trimethylbenzene	14.05	105	446696	21.516	ug/l	99
85) sec-Butylbenzene	14.18	105	509197	20.594	ug/l	100
86) p-Isopropyltoluene	14.30	119	430304	21.436	ug/l	99
87) 1,3-Dichlorobenzene	14.26	146	226541	20.431	ug/l	98
88) 1,4-Dichlorobenzene	14.35	146	215564	20.009	ug/l	98
89) n-Butylbenzene	14.61	91	455859	21.765	ug/l	99
90) Hexachloroethane	14.82	117	117167	19.614	ug/l	69
91) 1,2-Dichlorobenzene	14.62	146	188805	20.514	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.19	75	21987	21.076	ug/l	58

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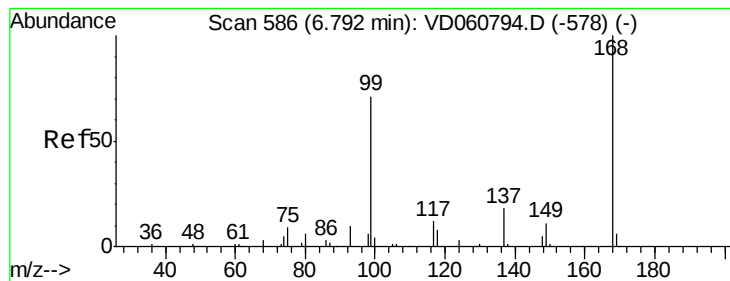
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.76	180	160571	20.149	ug/l	99
94) Hexachlorobutadiene	15.85	225	123024	20.575	ug/l	97
95) Naphthalene	15.94	128	232943	19.025	ug/l	98
96) 1,2,3-Trichlorobenzene	16.08	180	139906	20.190	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.82 min Scan# 589

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion:168 Resp: 524752

Ion Ratio Lower Upper

168 100

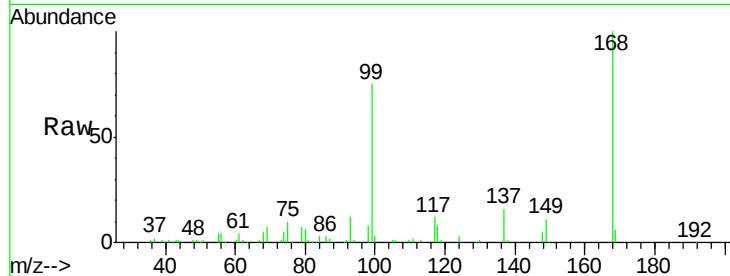
99 74.9 59.2 88.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.82

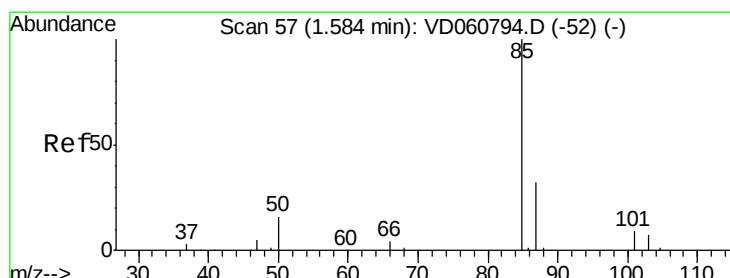
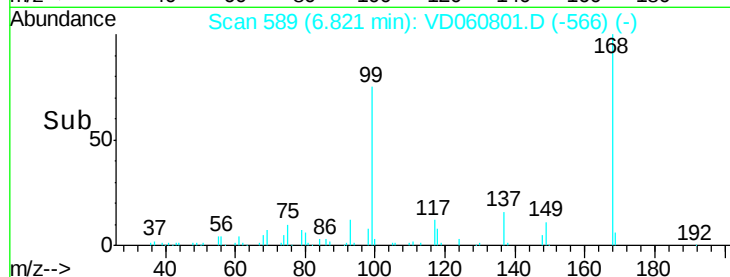
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.335 ug/l

RT: 1.59 min Scan# 58

Delta R.T. 0.01 min

Lab File: VD060801.D

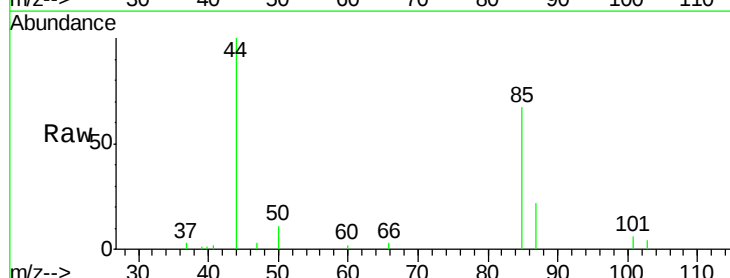
Acq: 30 Jan 2019 13:06

Tgt Ion: 85 Resp: 123360

Ion Ratio Lower Upper

85 100

87 32.2 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

30000

25000

20000

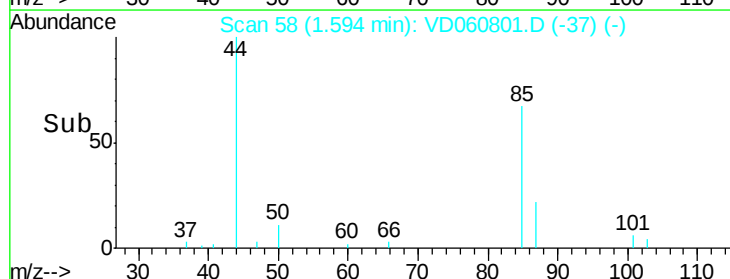
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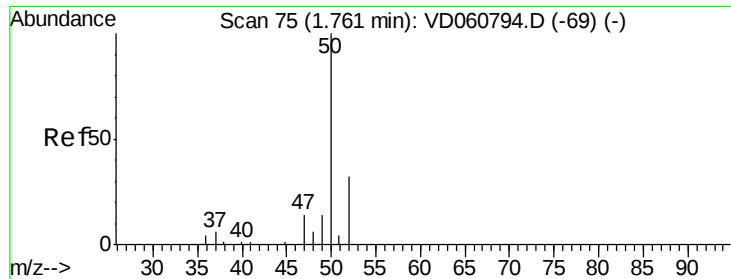
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5000

0

Time-->





#3

Chloromethane

Concen: 19.455 ug/l

RT: 1.77 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 50 Resp: 74315

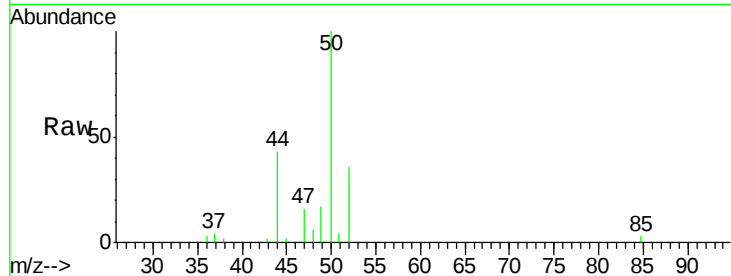
Ion Ratio Lower Upper

50 100

52 36.1 25.2 37.8

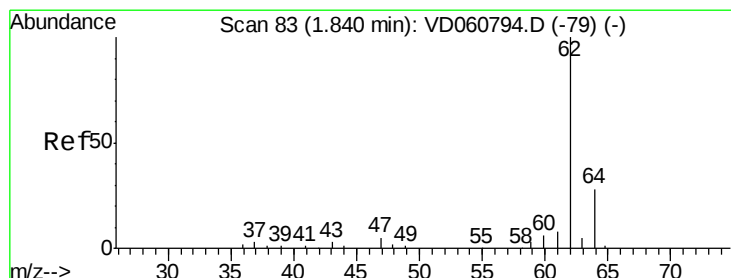
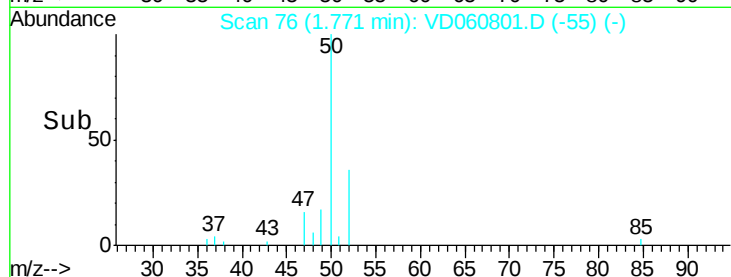
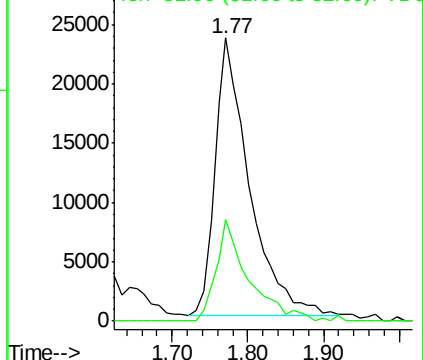
Manual Integrations
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.846 ug/l

RT: 1.86 min Scan# 85

Delta R.T. 0.02 min

Lab File: VD060801.D

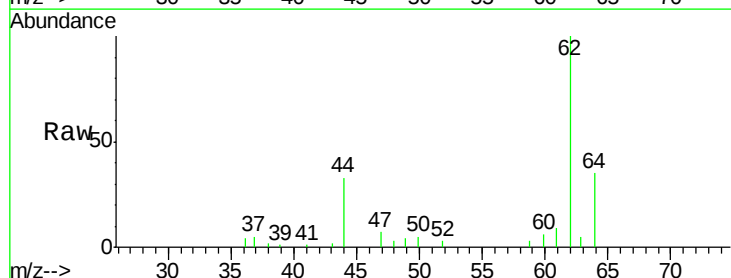
Acq: 30 Jan 2019 13:06

Tgt Ion: 62 Resp: 80469

Ion Ratio Lower Upper

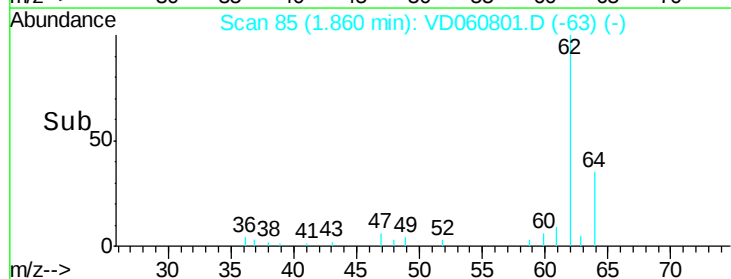
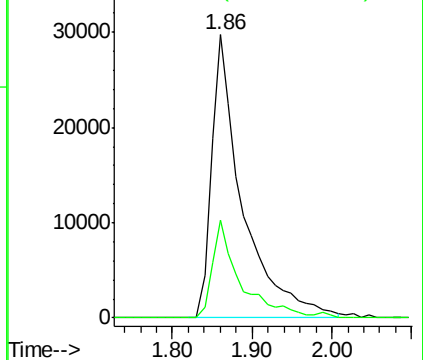
62 100

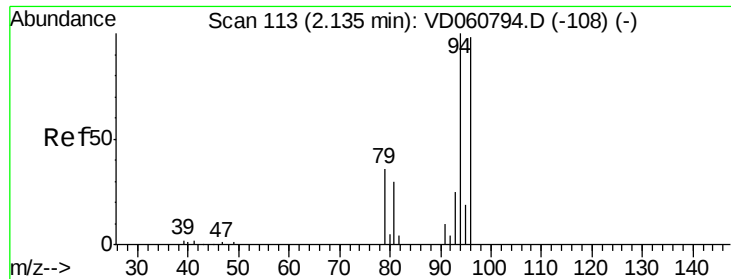
64 34.5 22.1 33.1#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 17.453 ug/l

RT: 2.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 94 Resp: 22354

Ion Ratio Lower Upper

94 100

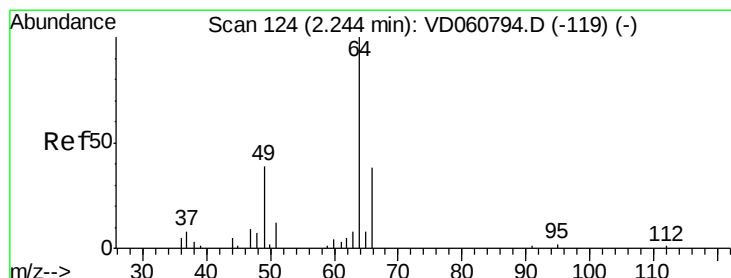
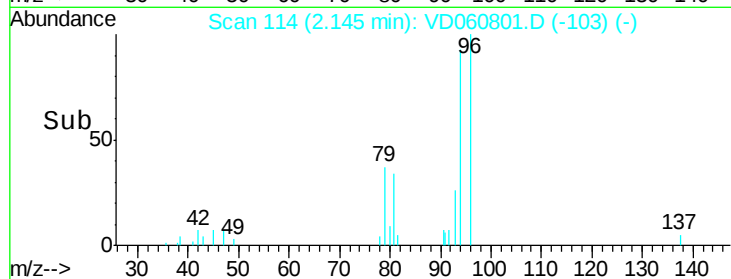
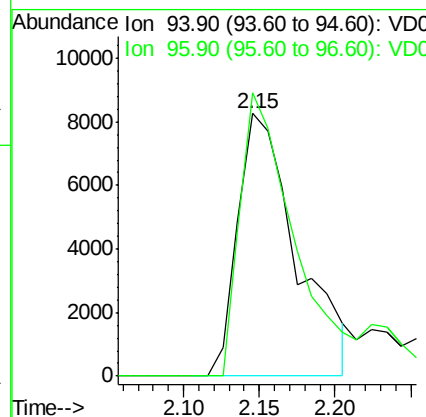
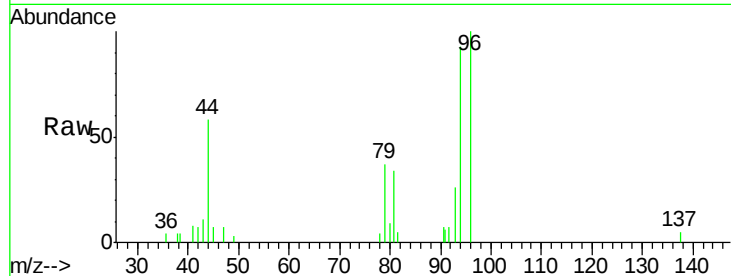
96 107.8 78.0 117.0

Manual Integrations

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#6

Chloroethane

Concen: 18.418 ug/l

RT: 2.25 min Scan# 125

Delta R.T. 0.01 min

Lab File: VD060801.D

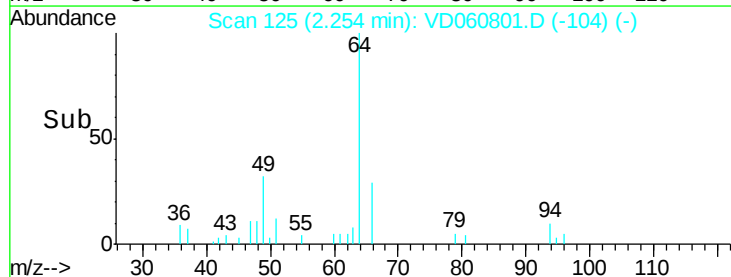
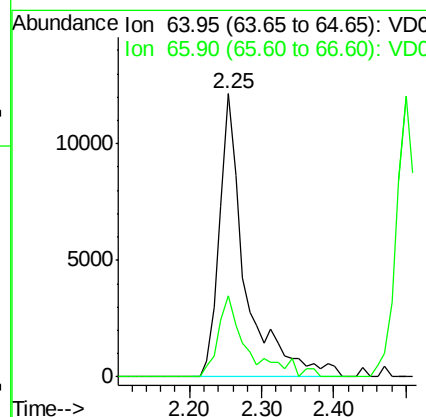
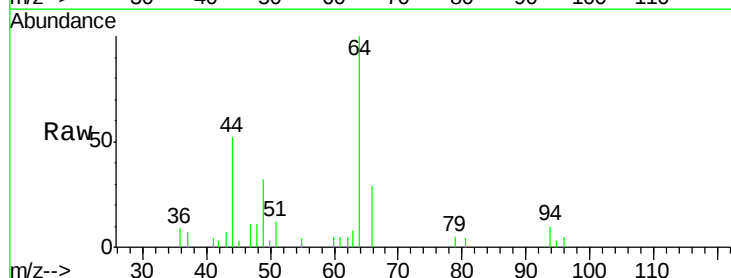
Acq: 30 Jan 2019 13:06

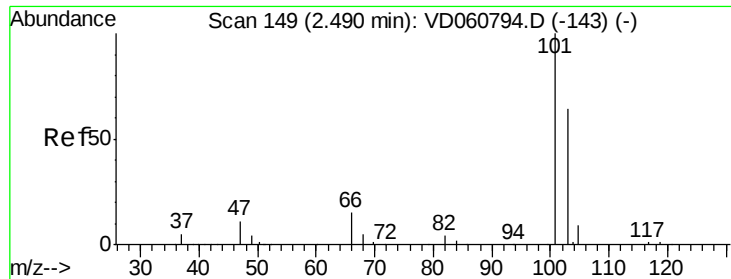
Tgt Ion: 64 Resp: 29966

Ion Ratio Lower Upper

64 100

66 28.5 30.2 45.4#





#7

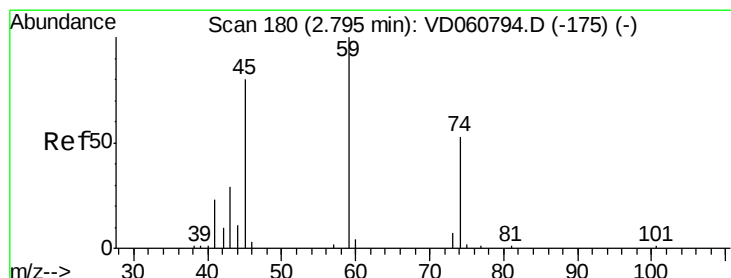
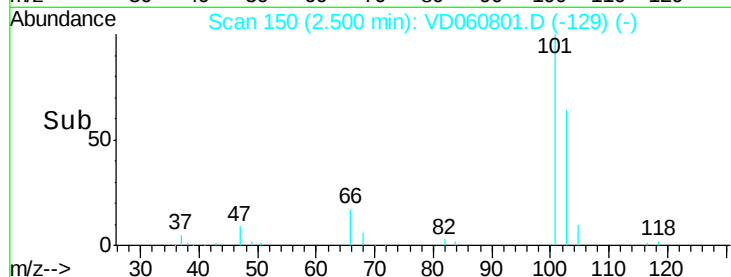
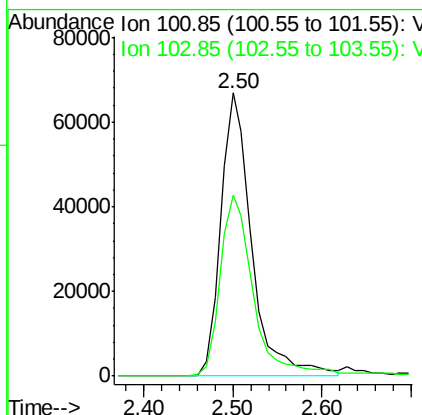
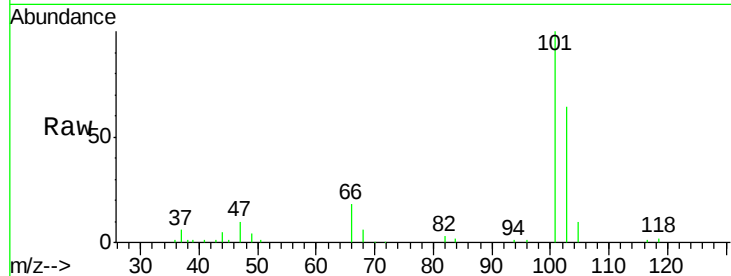
Trichlorofluoromethane
 Concen: 20.447 ug/l
 RT: 2.50 min Scan# 150
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
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 VD0130SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.3	76.9

Manual Integrations
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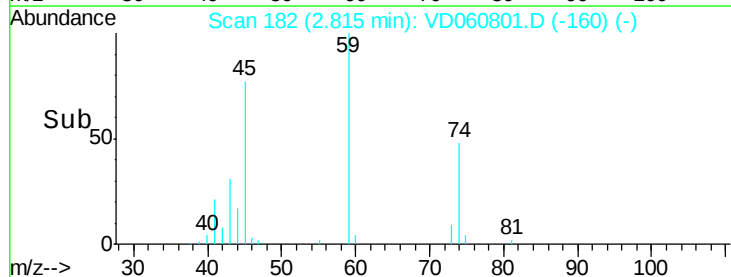
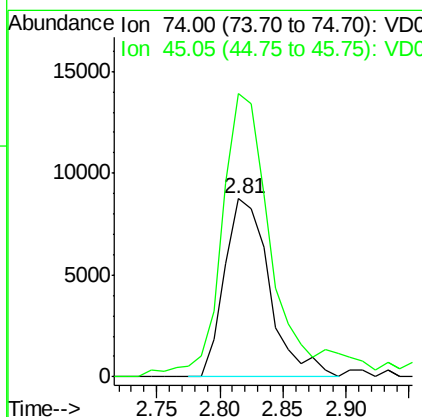
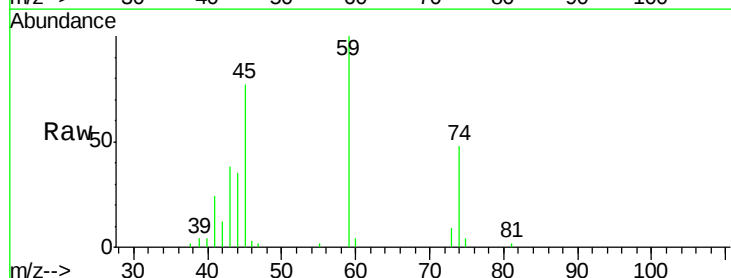
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 2/1/2019 3:55:37 PM

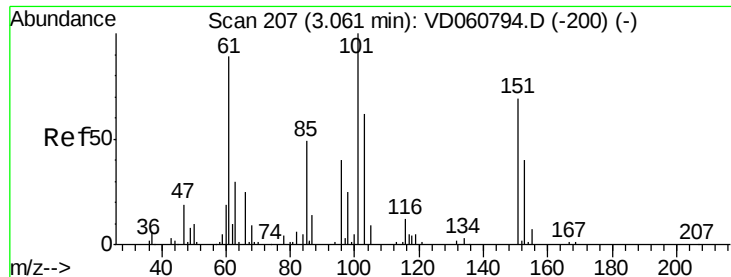


#8

Diethyl Ether
 Concen: 18.326 ug/l
 RT: 2.81 min Scan# 182
 Delta R.T. 0.02 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
74	100		
45	159.2	75.6	226.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.625 ug/l

RT: 3.08 min Scan# 209

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

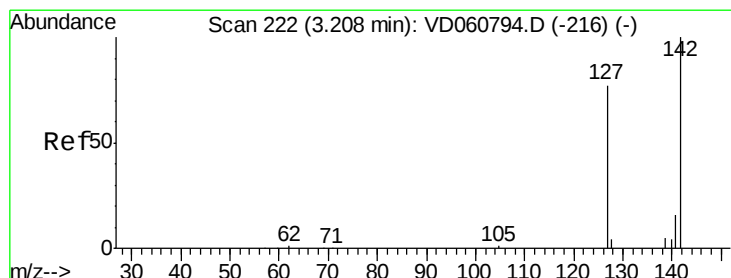
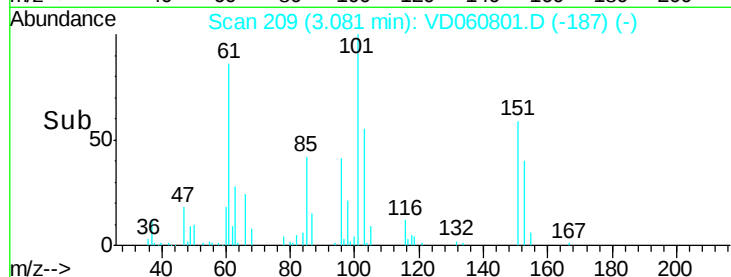
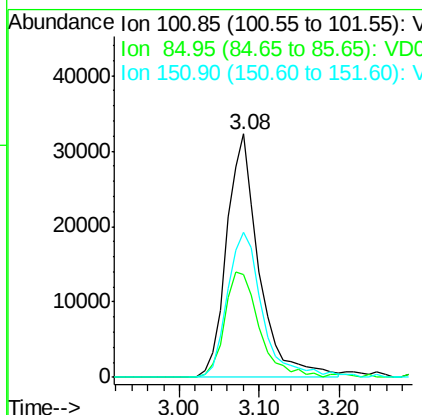
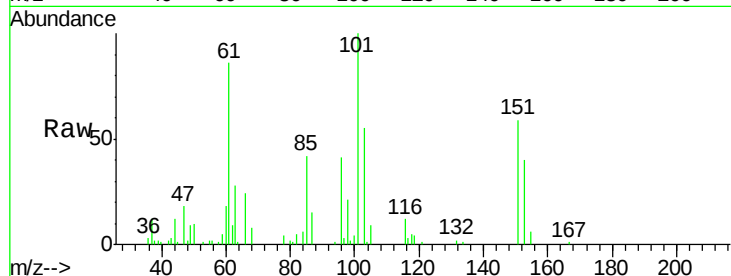
ClientSampleId :

VD0130SBS01

Tot Ion:	101	Resp:	91516
Ion Ratio	Lower	Upper	
101	100		
85	42.3	39.3	58.9
151	59.4	55.1	82.7

Manual Integrations
APPROVED

MMDadoda
2/1/2019 3:55:37 PM



#10

Methyl Iodide

Concen: 19.356 ug/l

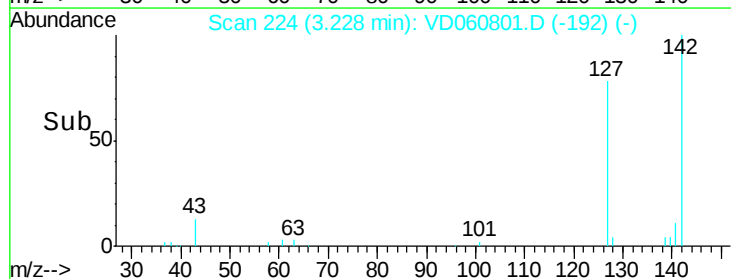
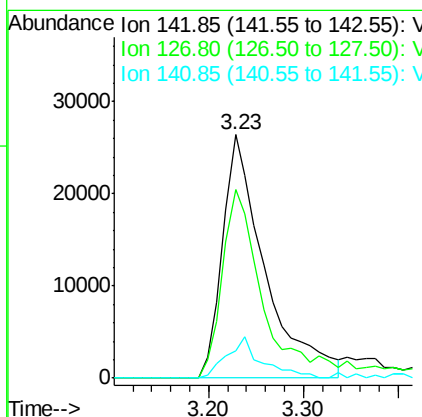
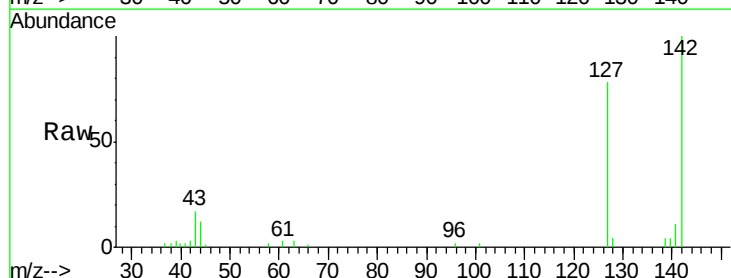
RT: 3.23 min Scan# 224

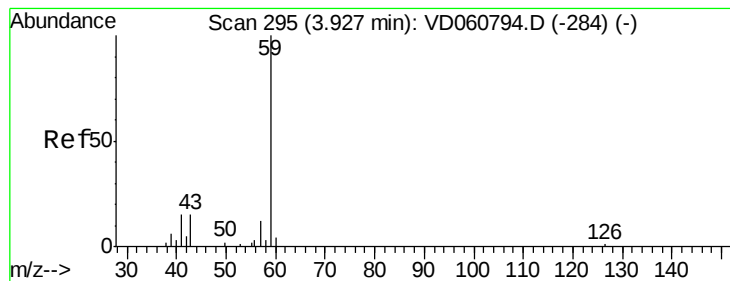
Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion:	142	Resp:	81970
Ion Ratio	Lower	Upper	
142	100		
127	77.5	61.6	92.4
141	11.2	12.5	18.7





#11

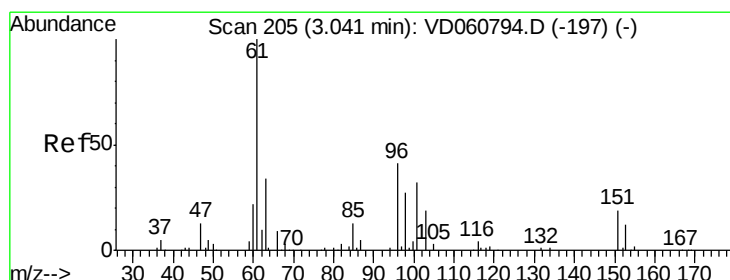
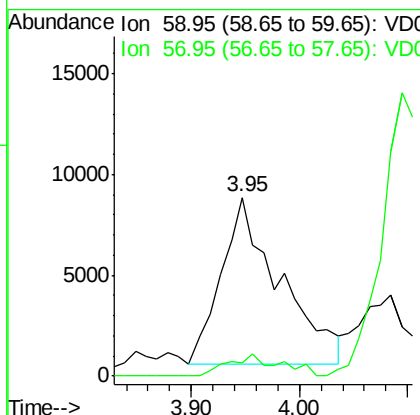
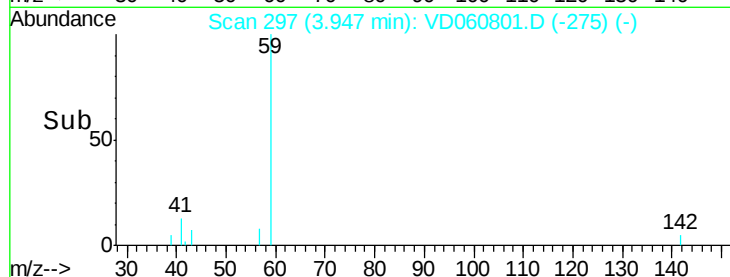
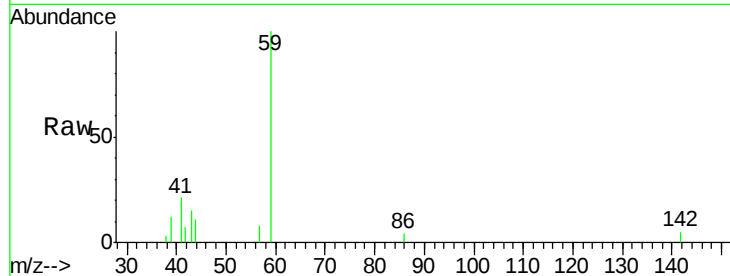
Tert butyl alcohol
Concen: 80.573 ug/l
RT: 3.95 min Scan# 297
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion: 59 Resp: 30977
Ion Ratio Lower Upper
59 100
57 7.8 9.8 14.6#

Manual Integrations
APPROVED

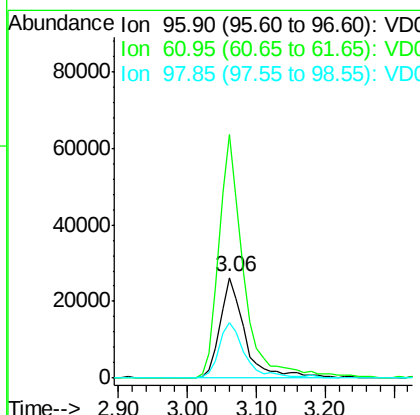
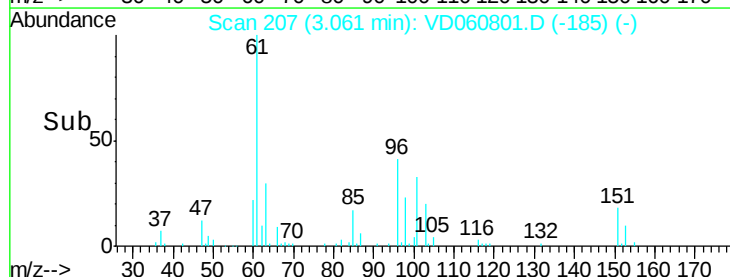
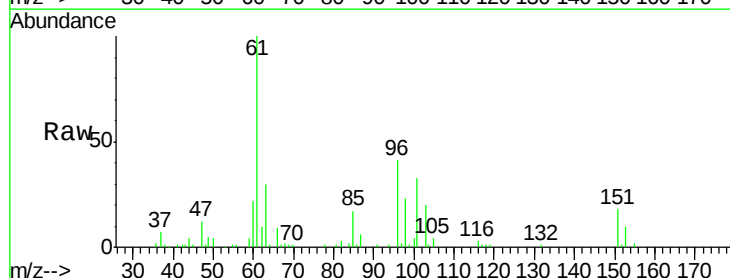
MMDadoda
2/1/2019 3:55:37 PM

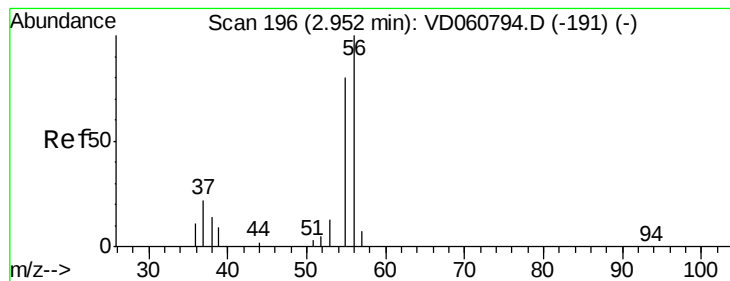


#12

1,1-Dichloroethene
Concen: 23.855 ug/l
RT: 3.06 min Scan# 207
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion: 96 Resp: 65938
Ion Ratio Lower Upper
96 100
61 242.9 195.1 292.7
98 55.1 52.5 78.7





#13

Acrolein

Concen: 130.177 ug/l

RT: 2.98 min Scan# 199

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 56 Resp: 18894

Ion Ratio Lower Upper

56 100

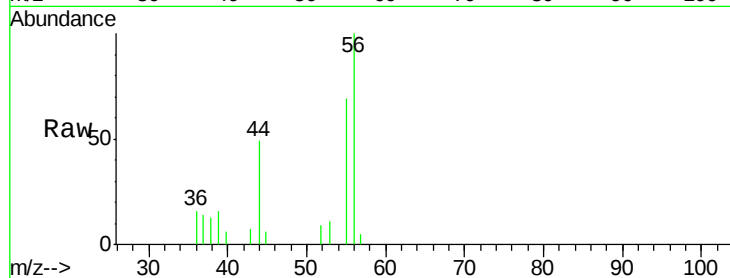
55 68.6 64.2 96.2

Manual Integrations

APPROVED

MMDadoda

2/1/2019 3:55:37 PM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.98

8000

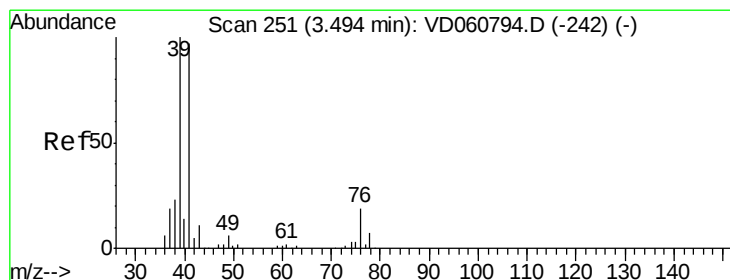
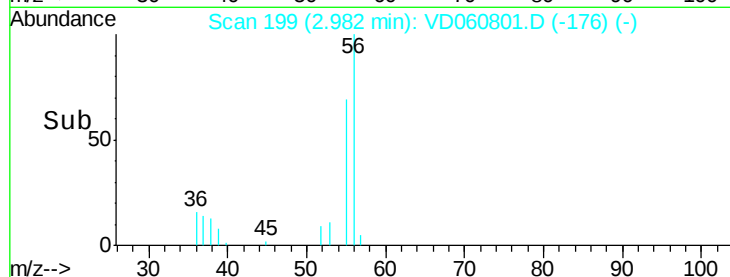
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 19.631 ug/l

RT: 3.51 min Scan# 253

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

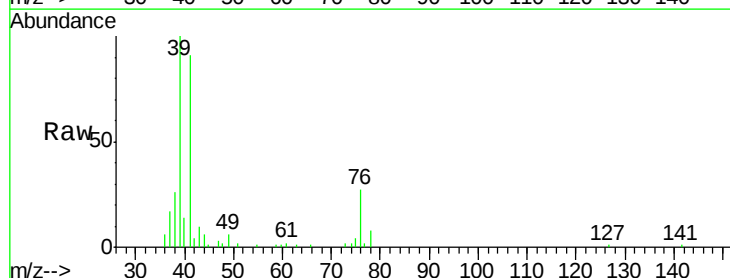
Tgt Ion: 41 Resp: 126281

Ion Ratio Lower Upper

41 100

39 109.5 82.6 123.8

76 29.3 18.9 28.3#



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

100000

80000

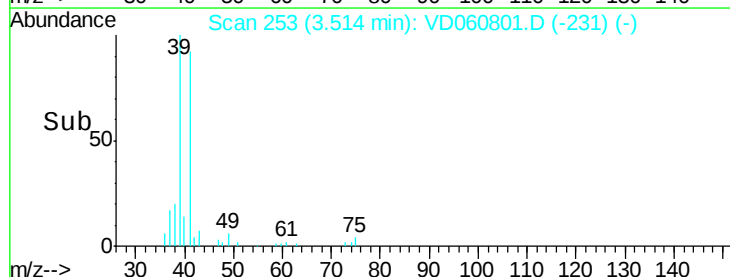
60000

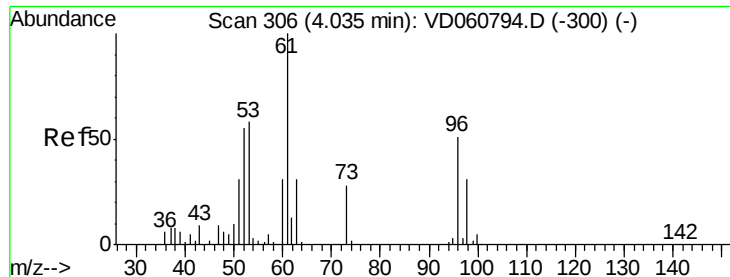
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 105.113 ug/l

RT: 4.07 min Scan# 309

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

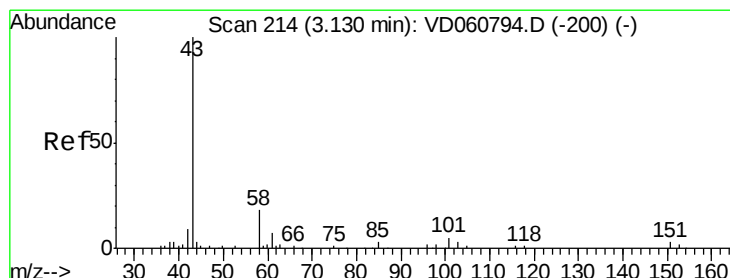
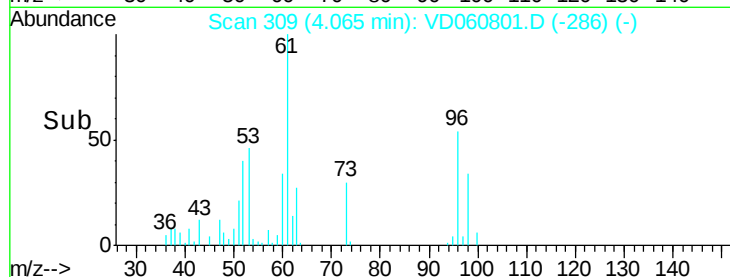
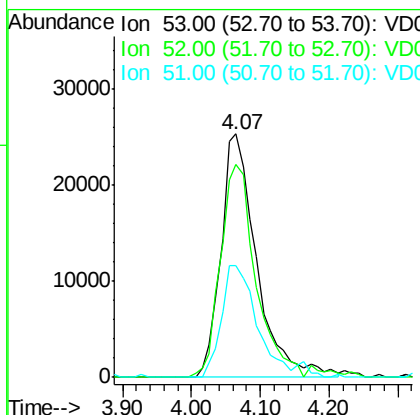
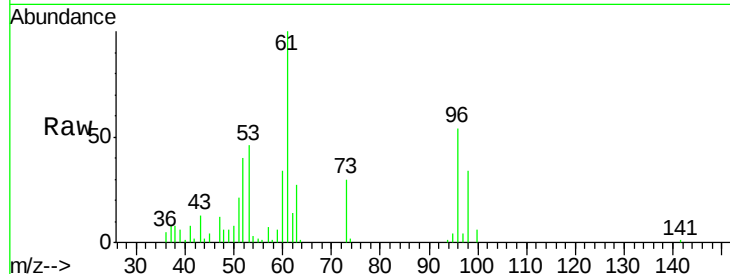
ClientSampleId :

VD0130SBS01

Tot Ion:	53	Resp:	90547
Ion	Ratio	Lower	Upper
53	100		
52	87.6	75.4	113.2
51	46.0	42.5	63.7

Manual Integrations
APPROVED

MMDadoda
2/1/2019 3:55:37 PM



#16

Acetone

Concen: 106.367 ug/l

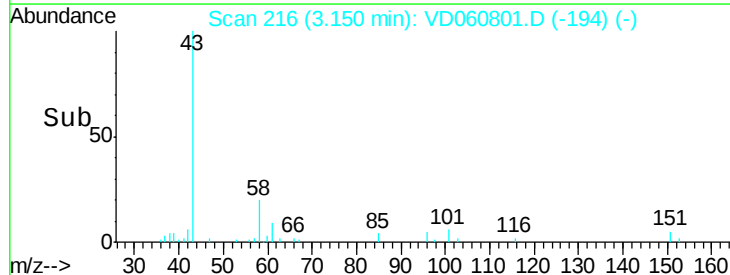
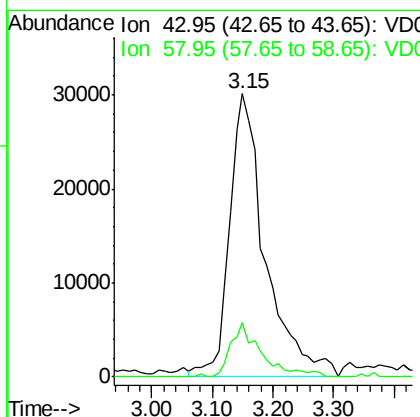
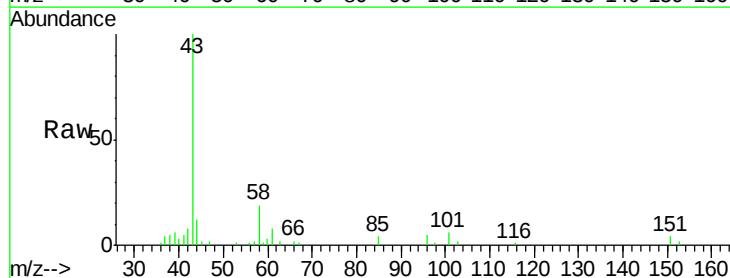
RT: 3.15 min Scan# 216

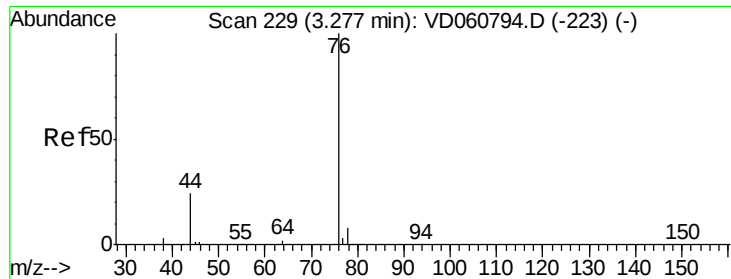
Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion:	43	Resp:	123593
Ion	Ratio	Lower	Upper
43	100		
58	19.0	14.5	21.7





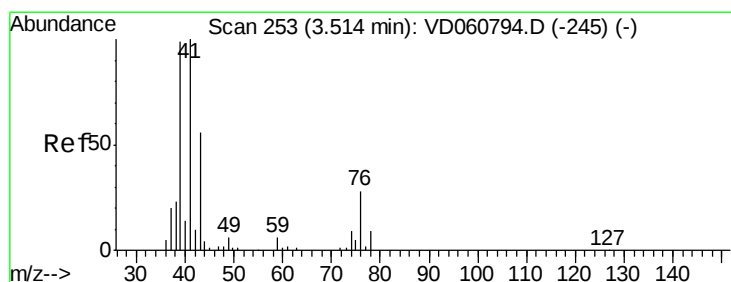
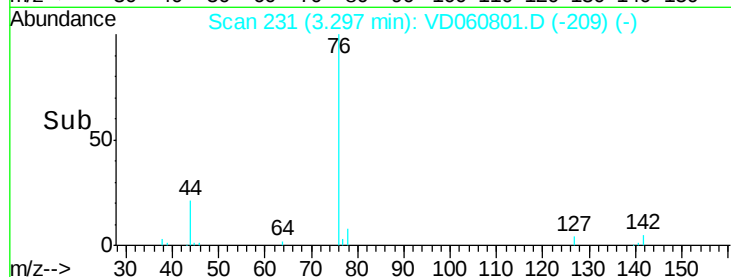
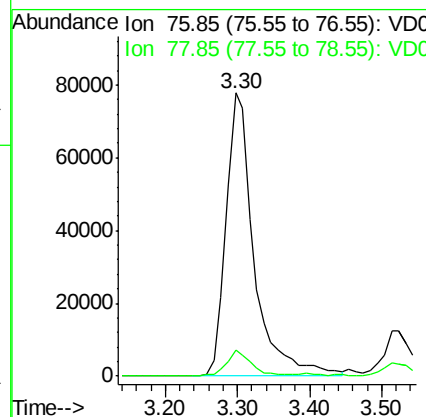
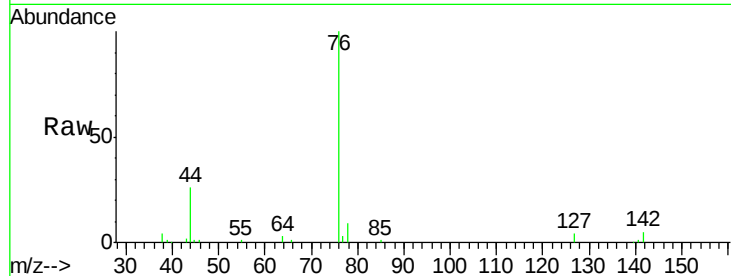
#17
Carbon Disulfide
Concen: 21.357 ug/l
RT: 3.30 min Scan# 231
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Resp	Lower	Upper
76	100	209113		
78	9.4	6.5	9.7	

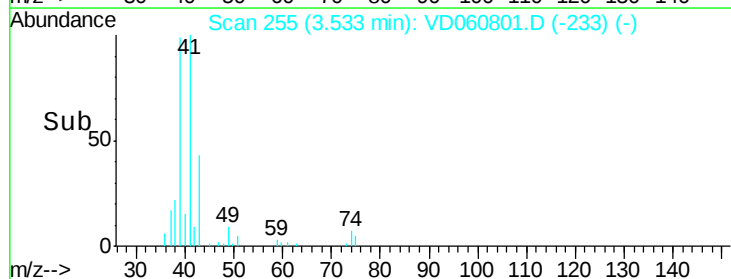
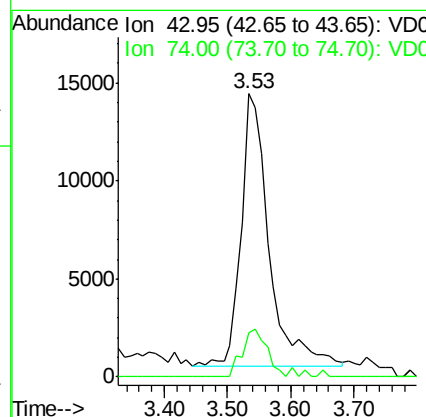
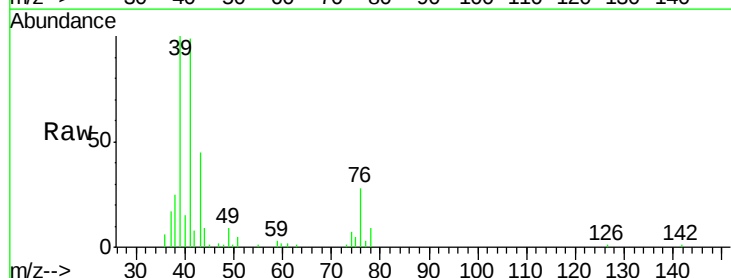
Manual Integrations
APPROVED

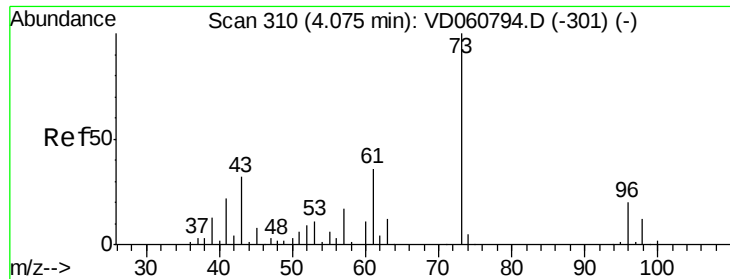
MMDadoda
2/1/2019 3:55:37 PM



#18
Methyl Acetate
Concen: 18.385 ug/l
RT: 3.53 min Scan# 255
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	42350		
74	15.6	12.5	18.7	





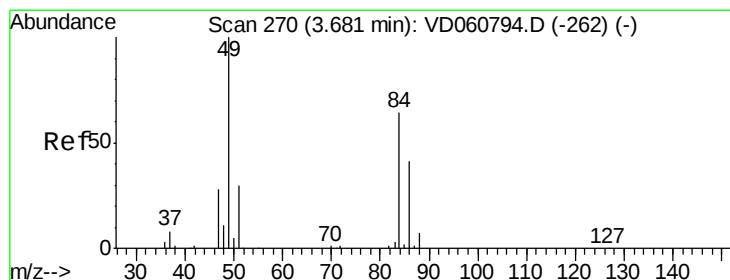
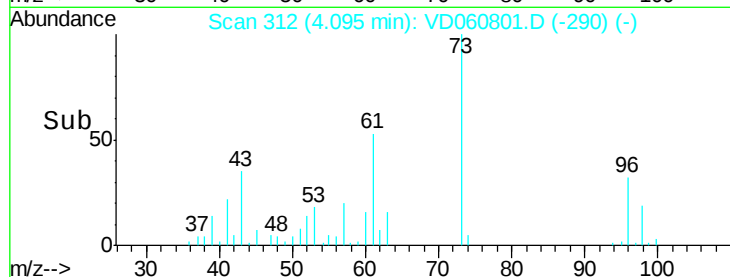
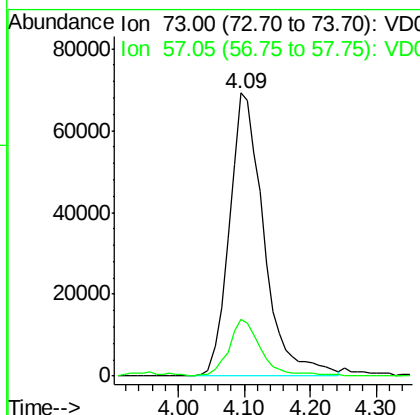
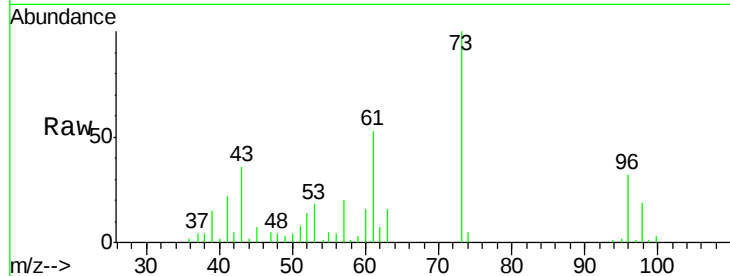
#19
Methyl tert-butyl Ether
Concen: 20.163 ug/l
RT: 4.09 min Scan# 312
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion: 73 Resp: 254443
Ion Ratio Lower Upper
73 100
57 20.3 14.0 21.0

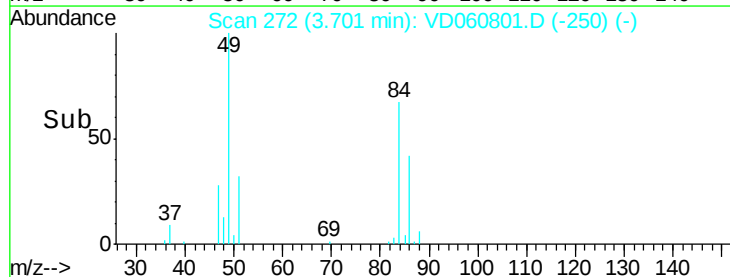
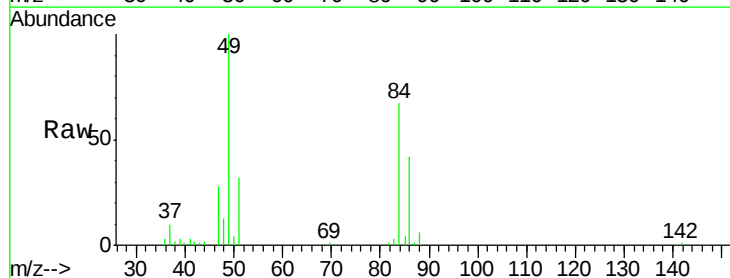
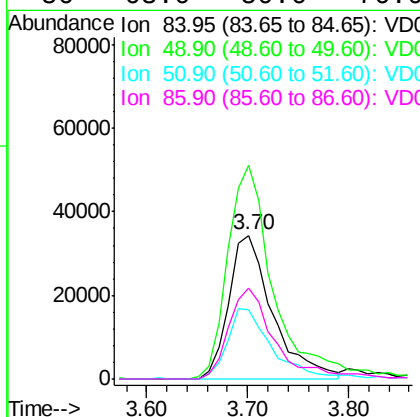
Manual Integrations
APPROVED

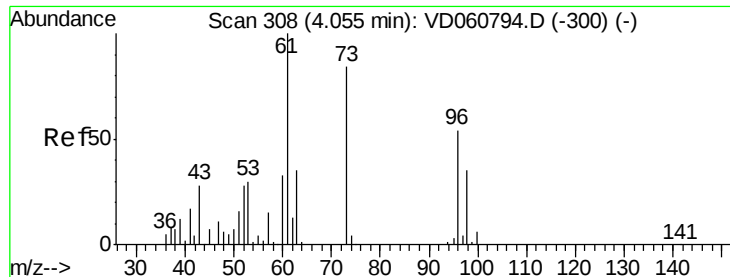
MMDadoda
2/1/2019 3:55:37 PM



#20
Methylene Chloride
Concen: 17.248 ug/l
RT: 3.70 min Scan# 272
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion: 84 Resp: 103747
Ion Ratio Lower Upper
84 100
49 148.9 124.2 186.2
51 47.8 38.1 57.1
86 63.0 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 22.032 ug/l

RT: 4.07 min Scan# 310

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 96 Resp: 107359

Ion Ratio Lower Upper

96 100

61 182.9 147.4 221.2

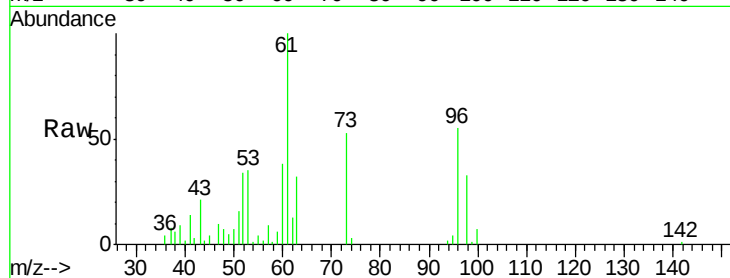
98 60.8 51.5 77.3

Manual Integrations

APPROVED

MMDadoda

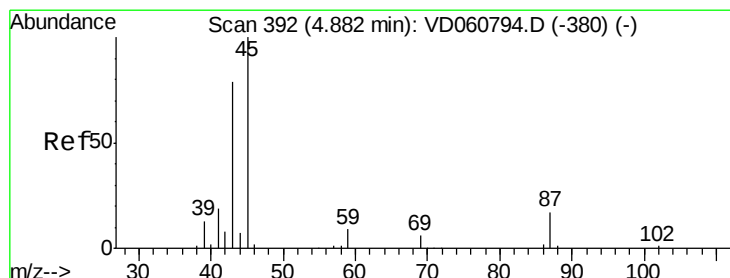
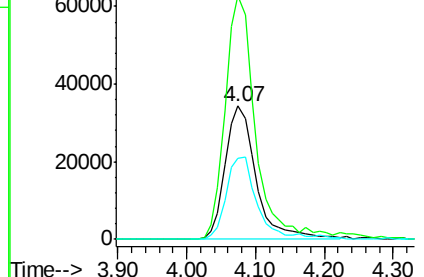
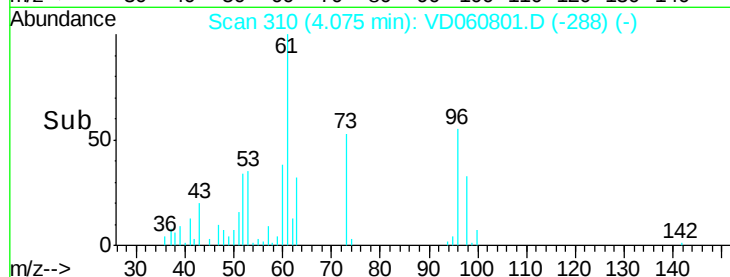
2/1/2019 3:55:37 PM



Abundance Ion 95.90 (95.60 to 96.60): VD060801.D (-288) (-)

Ion 60.95 (60.65 to 61.65): VD060801.D (-288) (-)

Ion 97.85 (97.55 to 98.55): VD060801.D (-288) (-)



#22

Diisopropyl ether

Concen: 19.669 ug/l

RT: 4.91 min Scan# 395

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion: 45 Resp: 326042

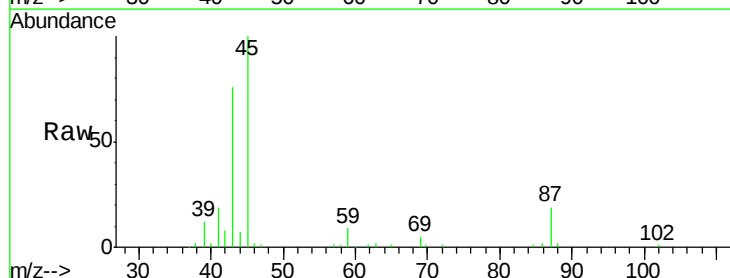
Ion Ratio Lower Upper

45 100

43 76.0 64.3 96.5

87 18.9 14.3 21.5

59 9.4 7.8 11.8

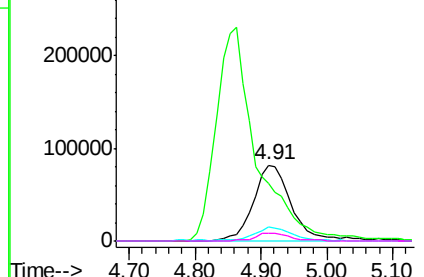
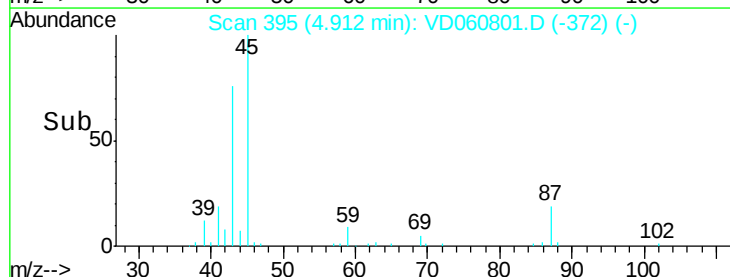


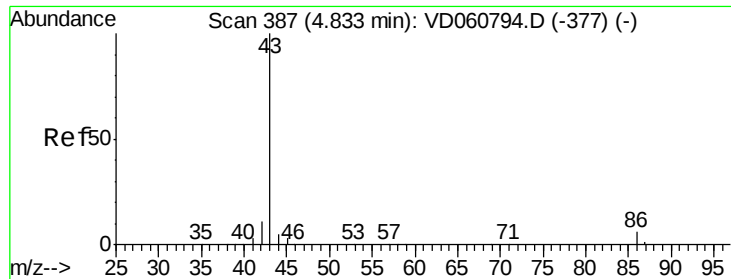
Abundance Ion 45.05 (44.75 to 45.75): VD060801.D (-372) (-)

Ion 43.05 (42.75 to 43.75): VD060801.D (-372) (-)

Ion 87.00 (86.70 to 87.70): VD060801.D (-372) (-)

Ion 58.95 (58.65 to 59.65): VD060801.D (-372) (-)





#23

Vinyl Acetate

Concen: 102.083 ug/l

RT: 4.86 min Scan# 390

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleID :

VD0130SBS01

Tot Ion: 43 Resp: 974463

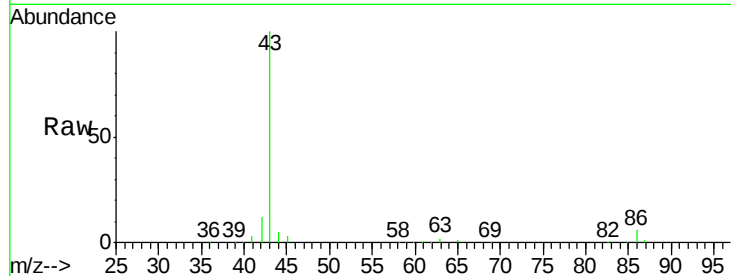
Ion Ratio Lower Upper

43 100

86 6.1 4.7 7.1

Manual Integrations
APPROVED

MMDadoda
2/1/2019 3:55:37 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

4.86

250000

200000

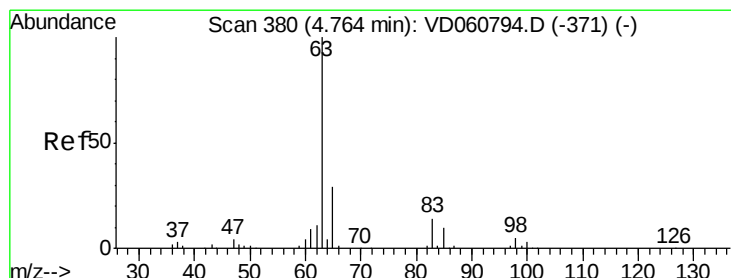
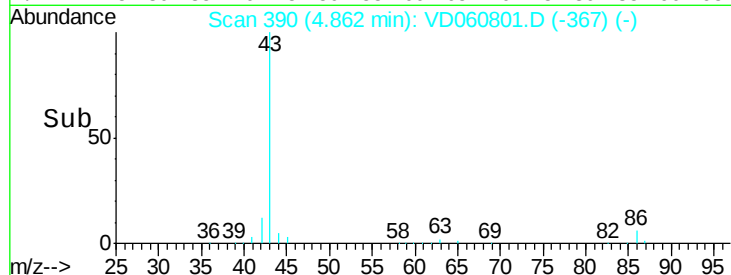
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.201 ug/l

RT: 4.79 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

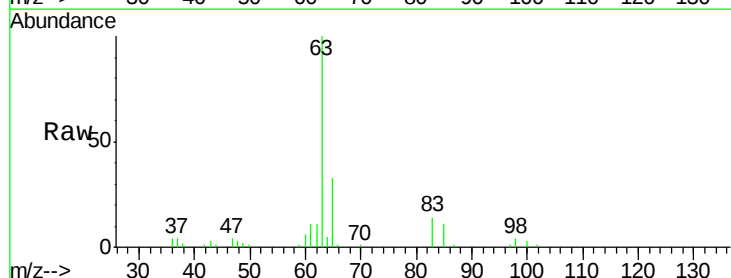
Tgt Ion: 63 Resp: 219213

Ion Ratio Lower Upper

63 100

98 4.0 2.3 6.9

100 2.6 1.3 3.8



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

4.79

80000

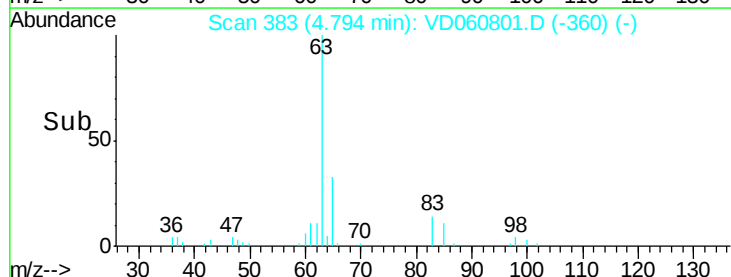
60000

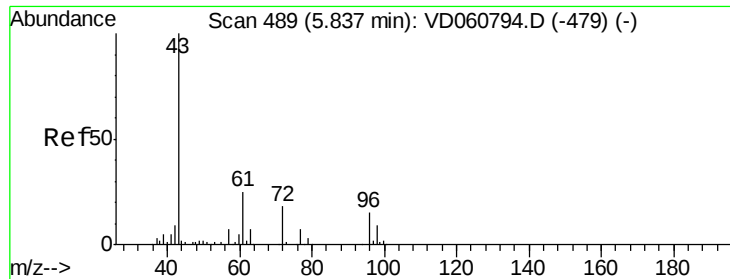
40000

20000

0

Time-->





#25

2-Butanone

Concen: 96.060 ug/l

RT: 5.87 min Scan# 492

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 43 Resp: 142864

Ion Ratio Lower Upper

43 100

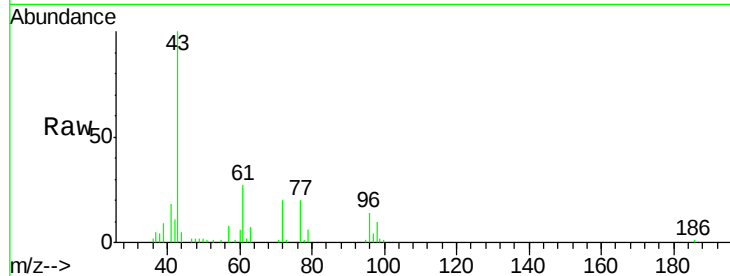
72 20.0 14.4 21.6

Manual Integrations

APPROVED

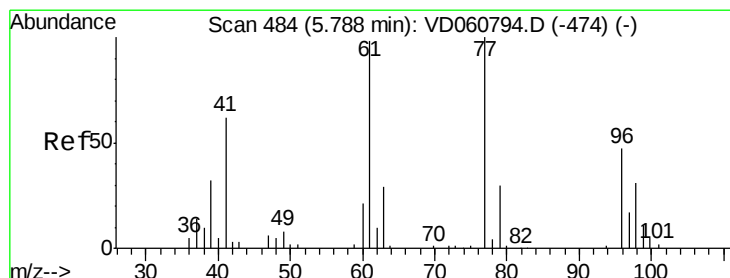
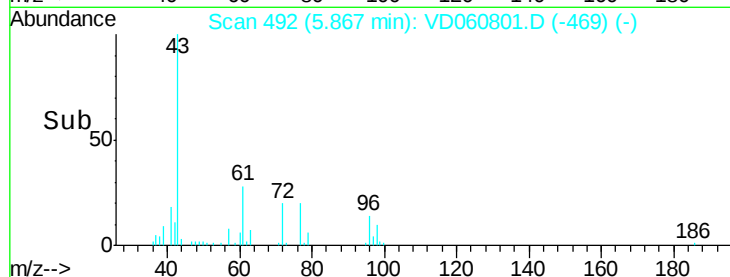
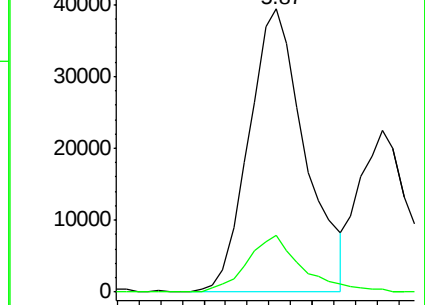
MMDadoda

2/1/2019 3:55:37 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.001 ug/l

RT: 5.81 min Scan# 486

Delta R.T. 0.02 min

Lab File: VD060801.D

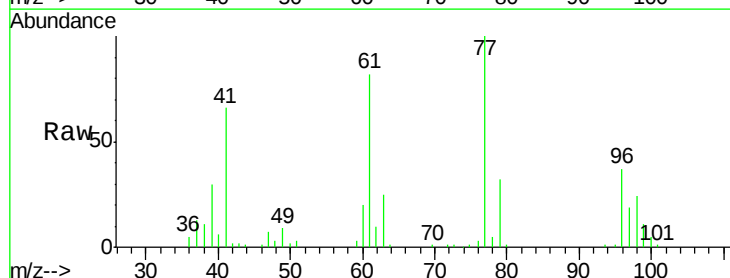
Acq: 30 Jan 2019 13:06

Tgt Ion: 77 Resp: 240128

Ion Ratio Lower Upper

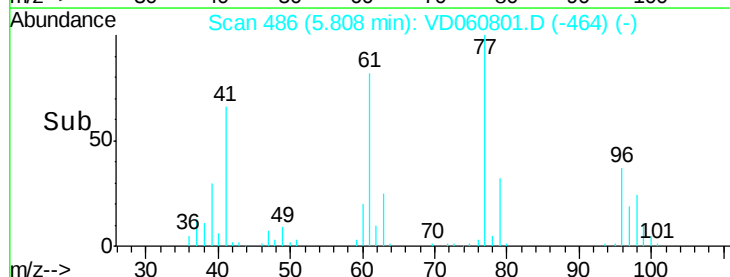
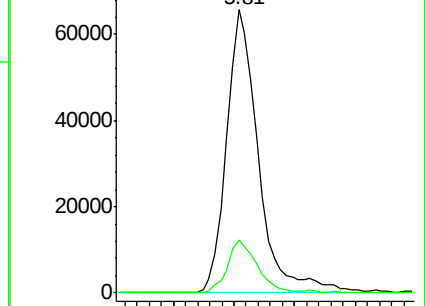
77 100

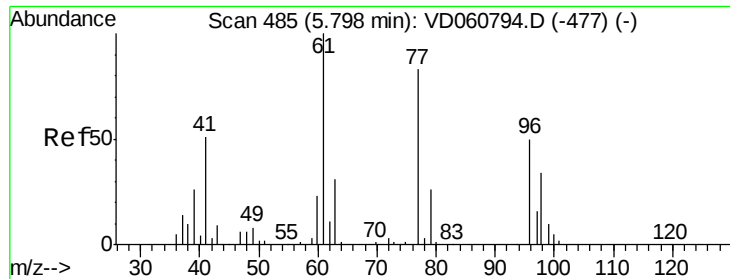
97 18.8 8.3 24.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





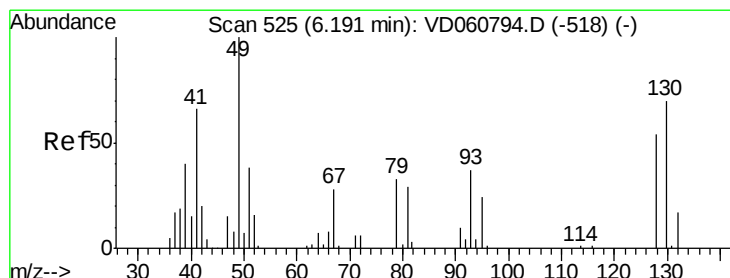
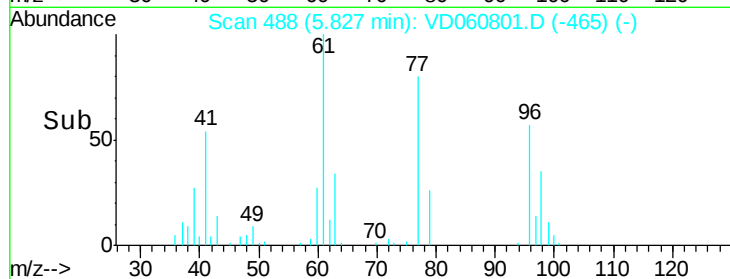
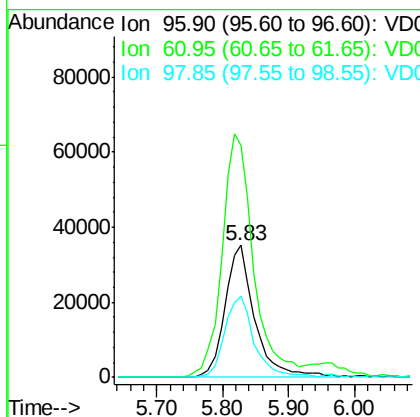
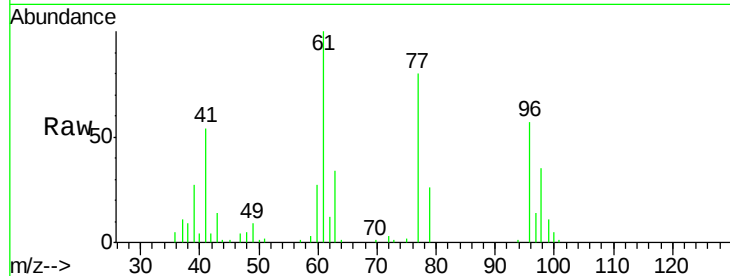
#27
 cis-1,2-Dichloroethene
 Concen: 20.005 ug/l
 RT: 5.83 min Scan# 488
 Delta R.T. 0.03 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	176.6	0.0	400.0
98	61.3	0.0	136.4

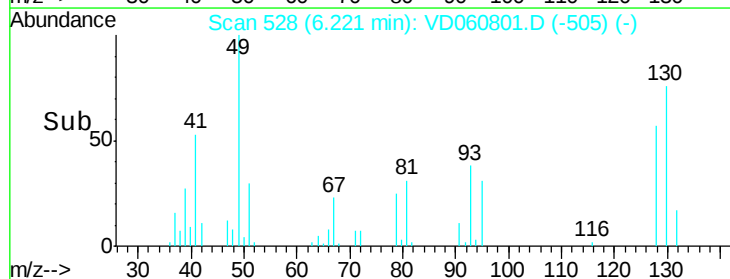
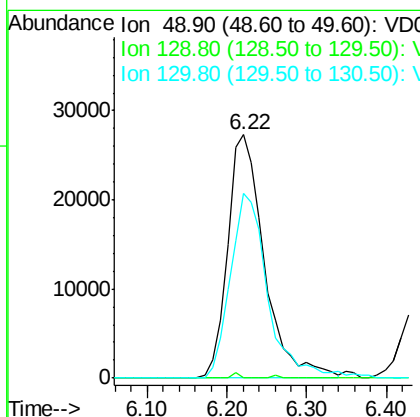
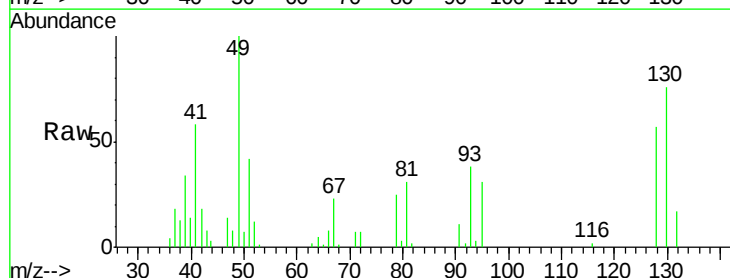
Manual Integrations
 APPROVED

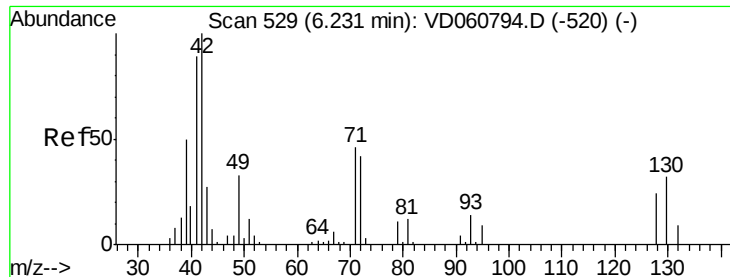
MMDadoda
 2/1/2019 3:55:37 PM



#28
 Bromochloromethane
 Concen: 20.609 ug/l
 RT: 6.22 min Scan# 528
 Delta R.T. 0.03 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	75.8	56.1	84.1





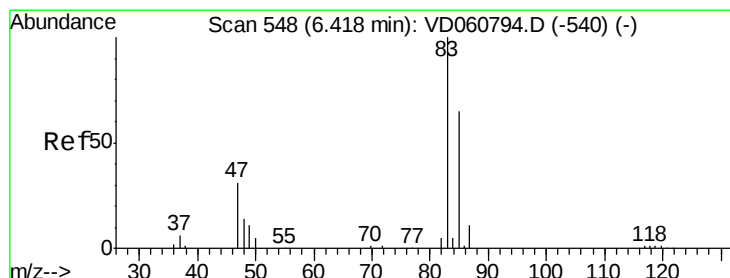
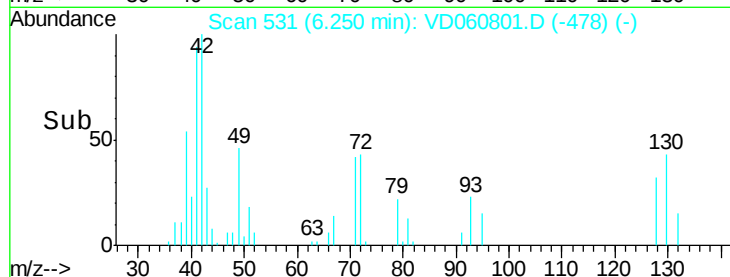
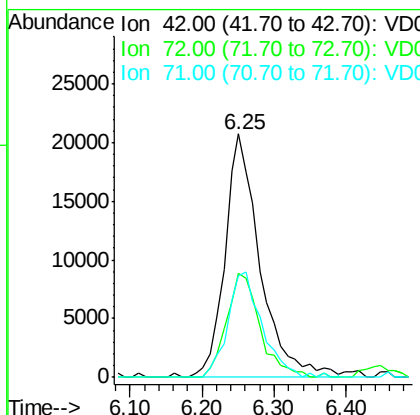
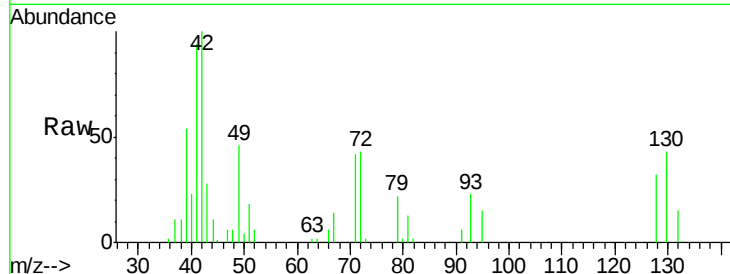
#29
Tetrahydrofuran
Concen: 98.188 ug/l
RT: 6.25 min Scan# 531
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	32.8	49.2
71	41.7	34.6	52.0

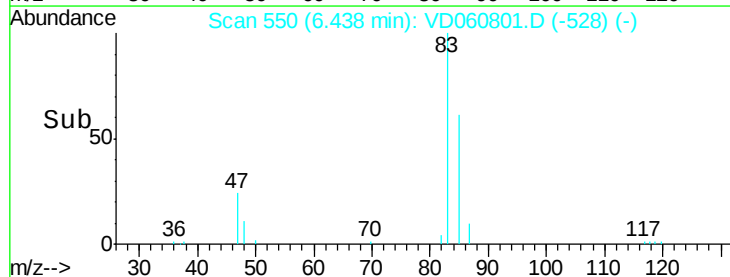
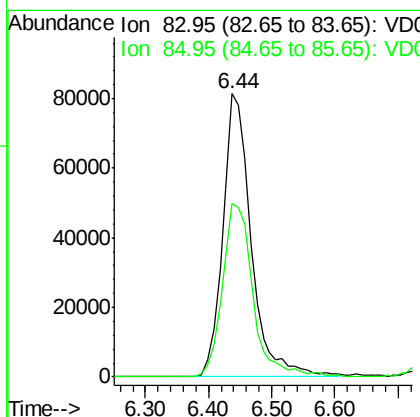
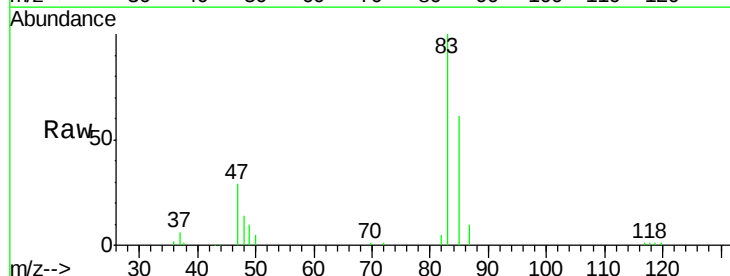
Manual Integrations
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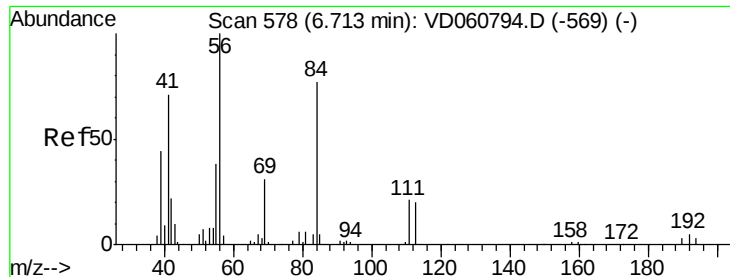
MMDadoda
2/1/2019 3:55:37 PM



#30
Chloroform
Concen: 19.739 ug/l
RT: 6.44 min Scan# 550
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.4	52.3	78.5





#31

Cyclohexane

Concen: 22.268 ug/l

RT: 6.73 min Scan# 580

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

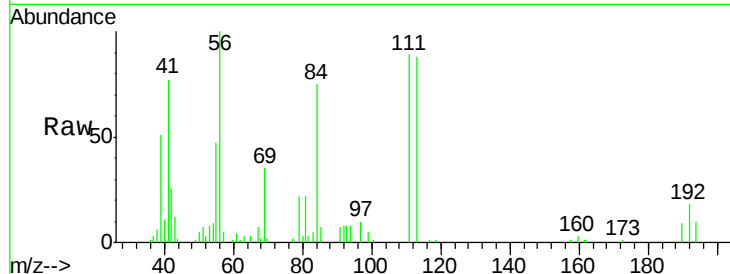
ClientSampleId :

VD0130SBS01

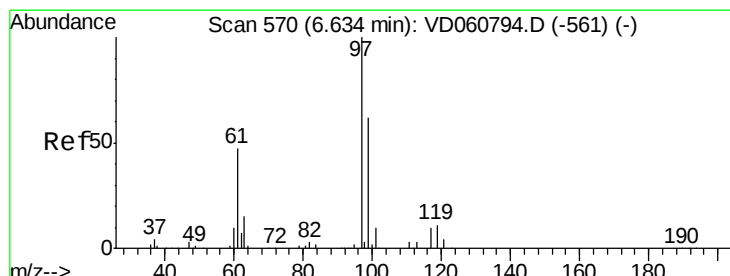
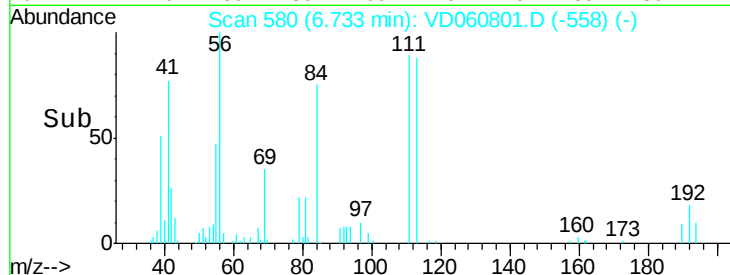
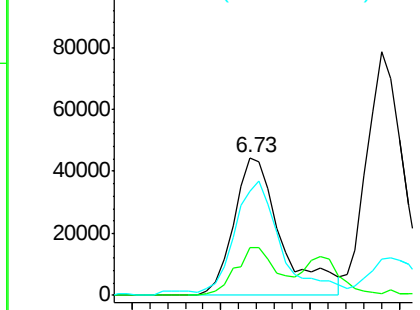
Tot Ion:	56	Resp:	164408
Ion	Ratio	Lower	Upper
56	100		
69	34.8	25.1	37.7
84	75.3	63.9	95.9

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: 21.118 ug/l

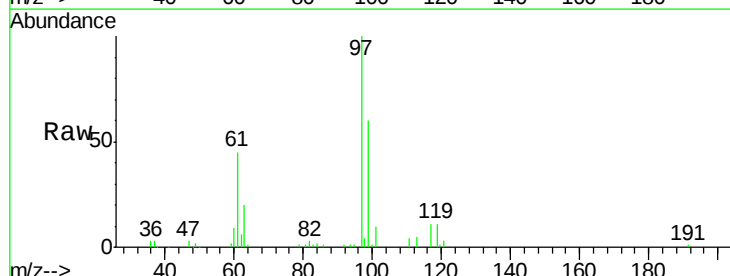
RT: 6.65 min Scan# 572

Delta R.T. 0.02 min

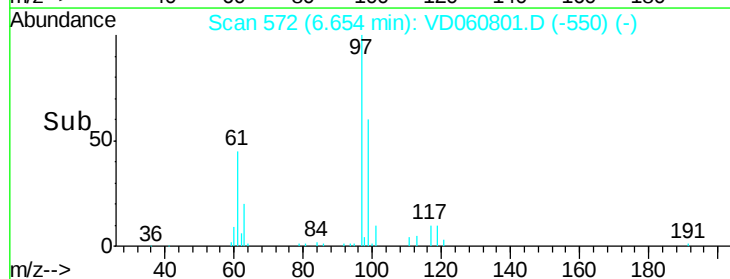
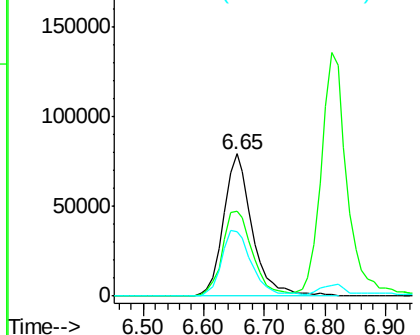
Lab File: VD060801.D

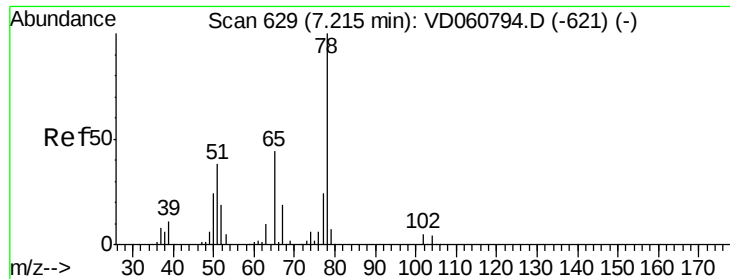
Acq: 30 Jan 2019 13:06

Tgt Ion:	97	Resp:	260841
Ion	Ratio	Lower	Upper
97	100		
99	60.1	49.6	74.4
61	45.4	37.4	56.2



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





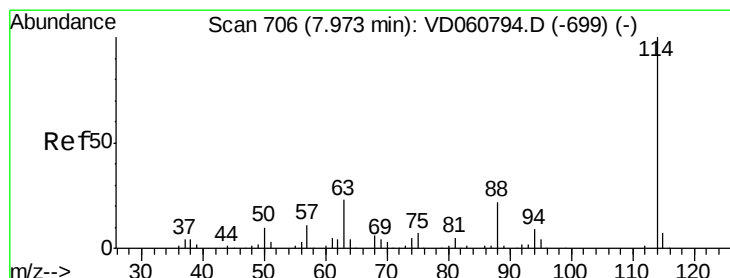
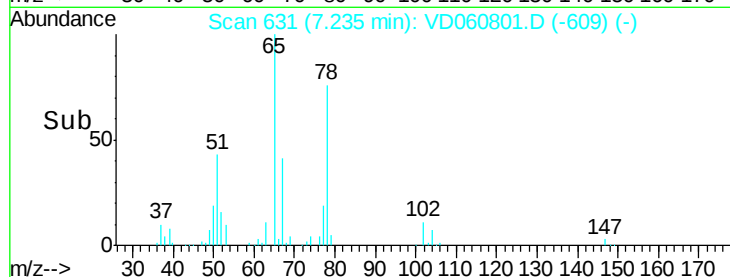
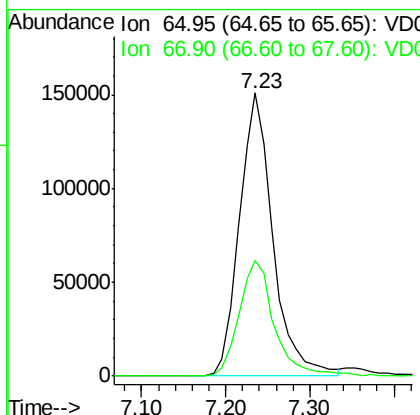
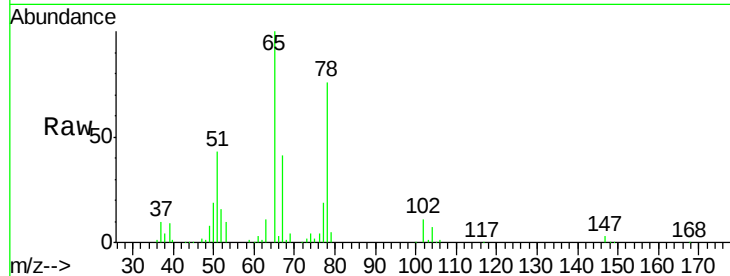
#33
 1,2-Dichloroethane-d4
 Concen: 21.118 ug/l
 RT: 7.23 min Scan# 631
 Delta R.T. 0.02 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion: 65 Resp: 417683
 Ion Ratio Lower Upper
 65 100
 67 40.9 0.0 85.8

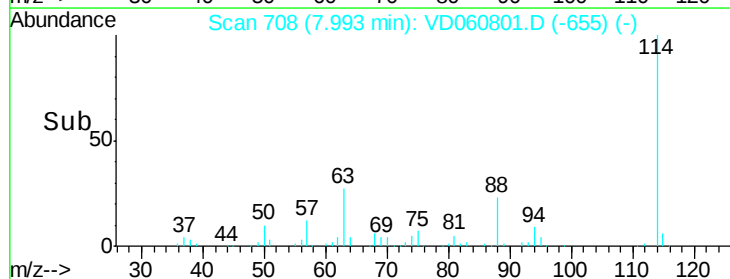
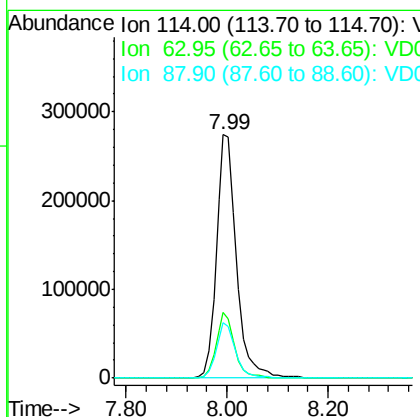
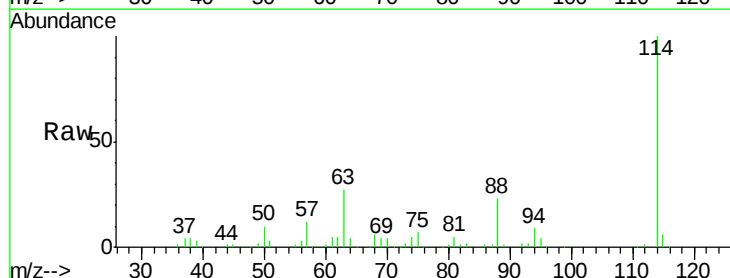
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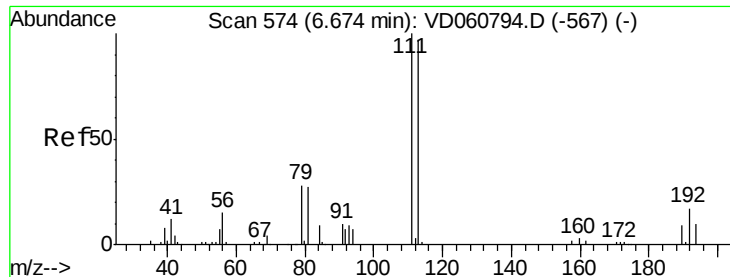
MMDadoda
 2/1/2019 3:55:37 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.99 min Scan# 708
 Delta R.T. 0.02 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion: 114 Resp: 763444
 Ion Ratio Lower Upper
 114 100
 63 27.1 0.0 46.6
 88 22.7 0.0 44.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.70 min Scan# 577

Delta R.T. 0.03 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

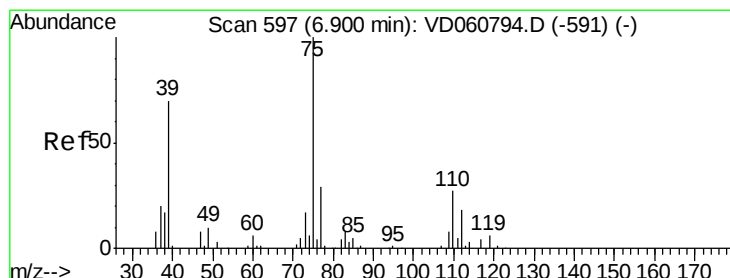
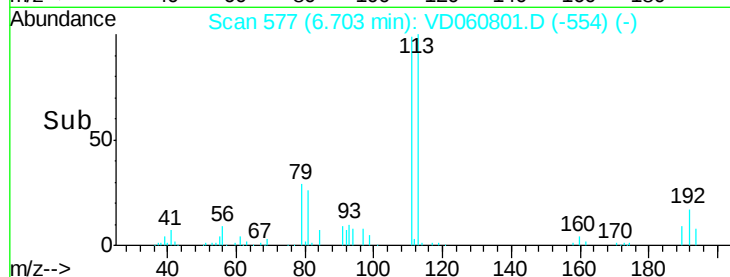
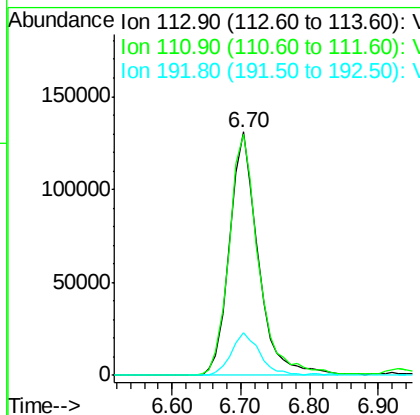
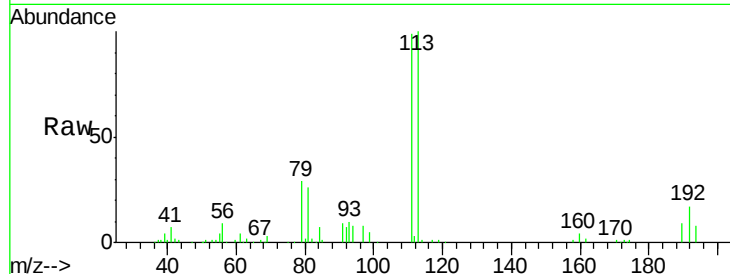
ClientSampleId :

VD0130SBS01

Tot Ion:	113	Resp:	378073
Ion Ratio	Lower	Upper	
113	100		
111	99.0	82.3	123.5
192	17.3	14.4	21.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 18.822 ug/l

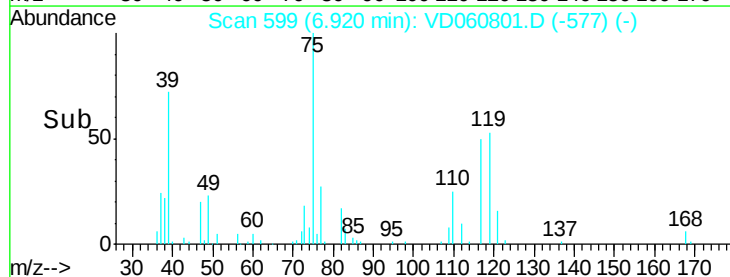
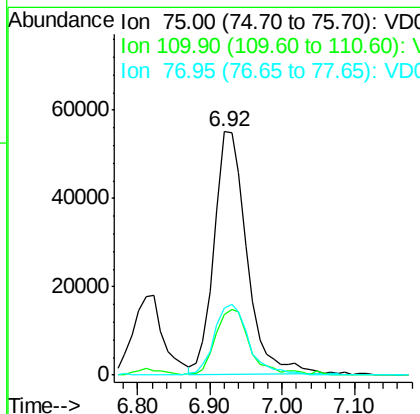
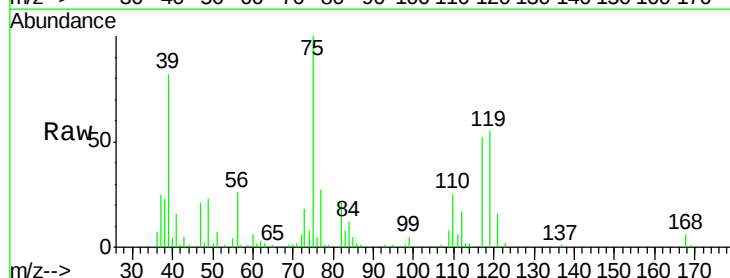
RT: 6.92 min Scan# 599

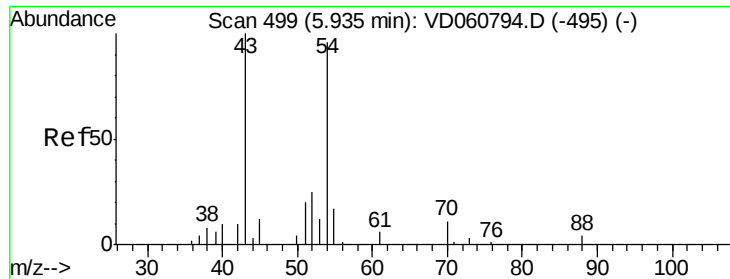
Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion:	75	Resp:	171565
Ion Ratio	Lower	Upper	
75	100		
110	24.6	13.5	40.4
77	27.4	23.4	35.2





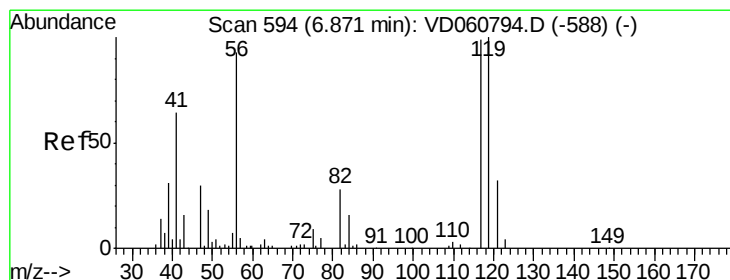
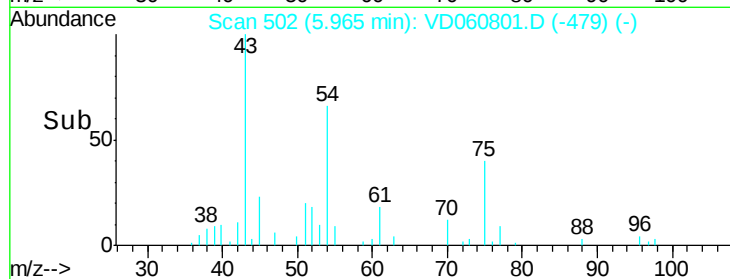
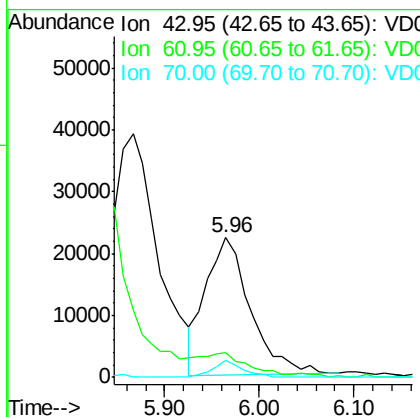
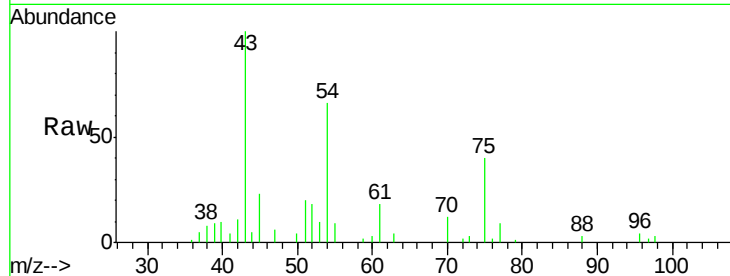
#37
Ethyl Acetate
Concen: 17.822 ug/l
RT: 5.96 min Scan# 502
Delta R.T. 0.03 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.7	12.3	18.5
70	12.2	7.4	11.0

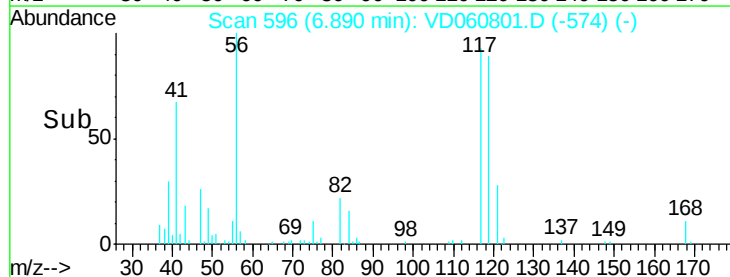
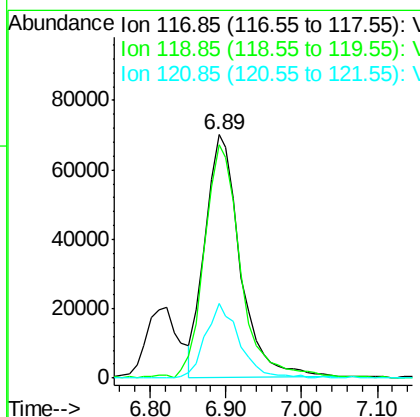
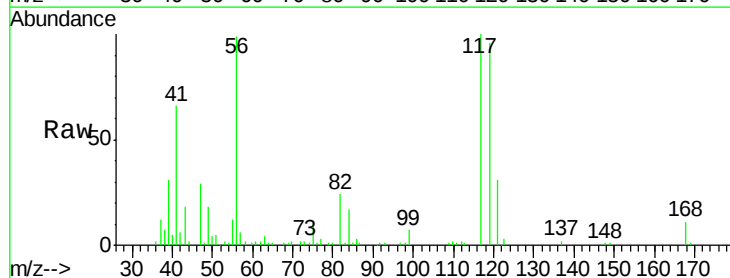
Manual Integrations
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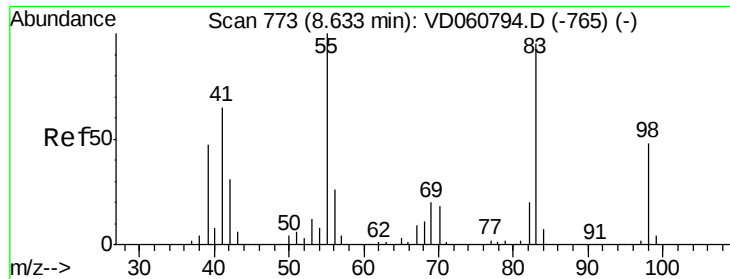
MMDadoda
2/1/2019 3:55:37 PM



#38
Carbon Tetrachloride
Concen: 19.710 ug/l
RT: 6.89 min Scan# 596
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.6	113.4
121	30.5	23.4	35.2





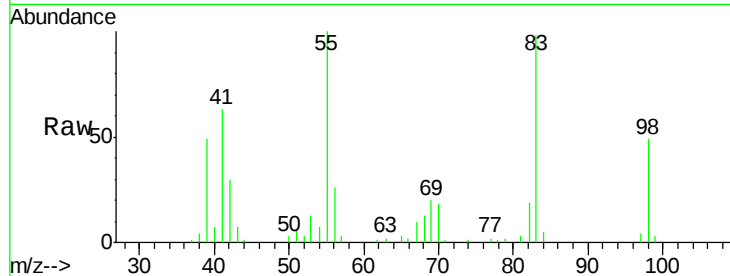
#39
Methylvlcyclohexane
Concen: 20.150 ug/l
RT: 8.65 min Scan# 775
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

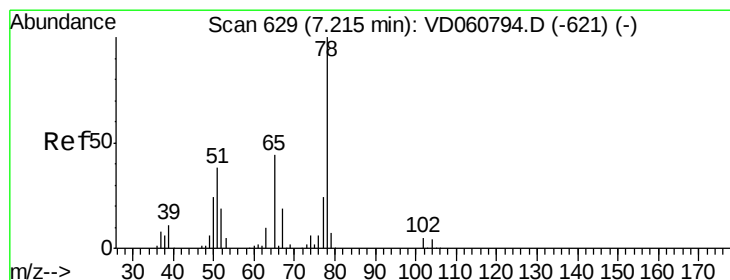
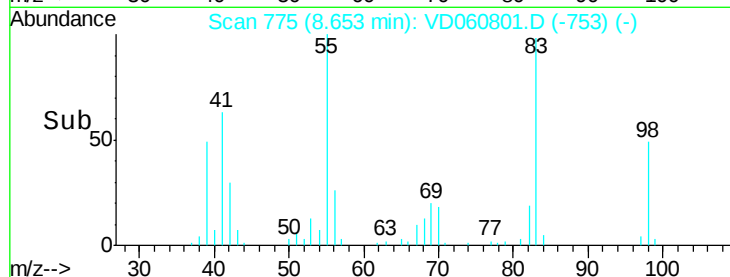
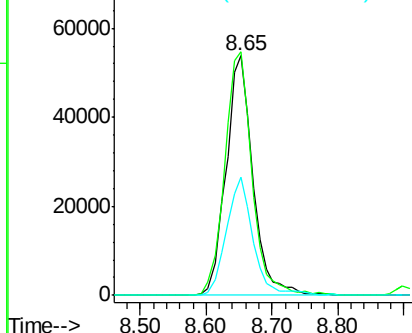
Tot Ion	83	Resp	153815
Ion Ratio	Lower	Upper	
83	100		
55	101.6	83.8	125.8
98	49.3	39.8	59.8

Manual Integrations
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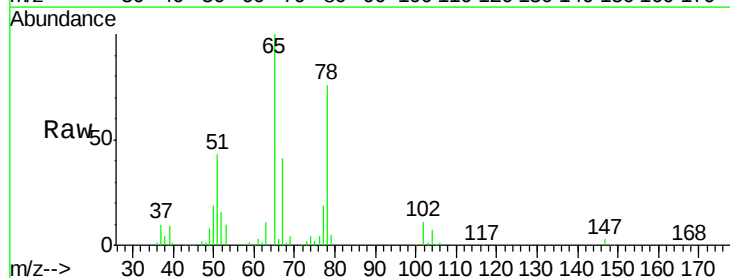


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

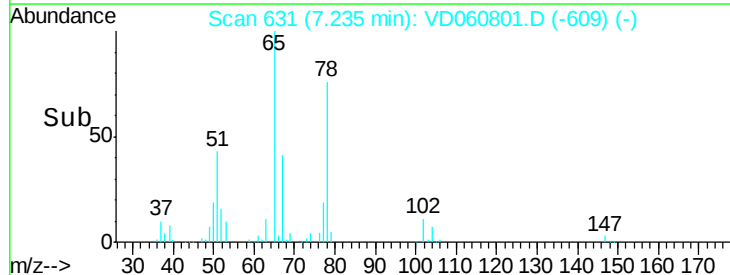
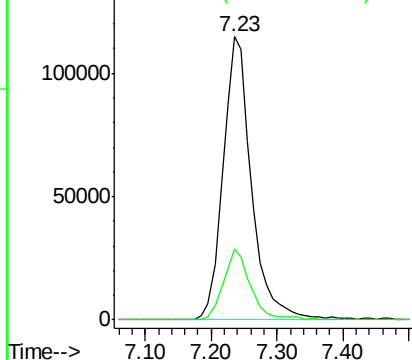


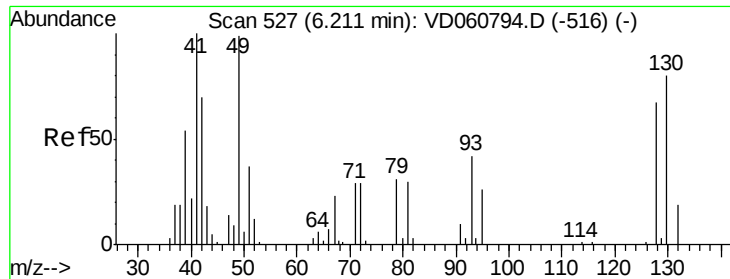
#40
Benzene
Concen: 19.237 ug/l
RT: 7.23 min Scan# 631
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	78	Resp	346077
Ion Ratio	Lower	Upper	
78	100		
77	25.1	18.9	28.3



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





#41

Methacrylonitrile

Concen: 11.142 ug/l m

RT: 6.22 min Scan# 528

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 41 Resp: 28793

Ion Ratio Lower Upper

41 100

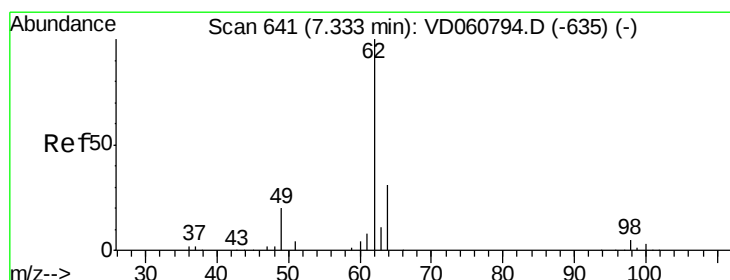
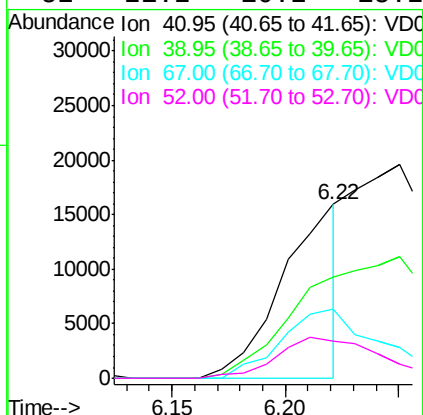
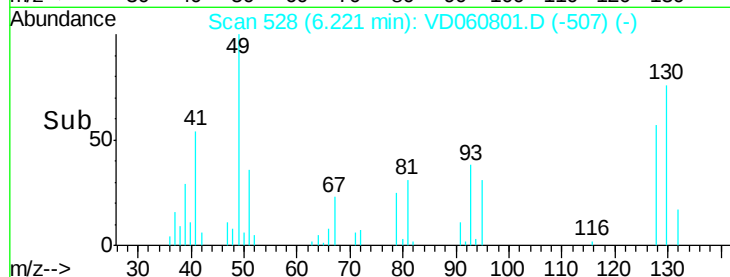
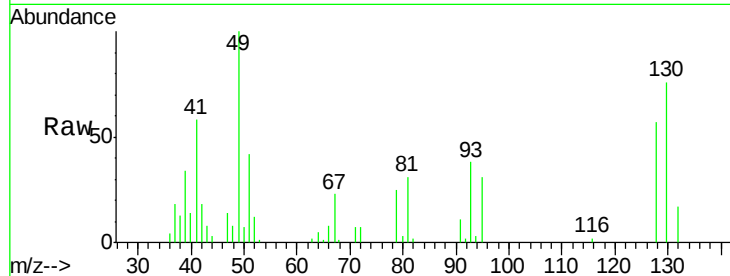
39 58.0 43.6 65.4

67 39.8 18.5 27.7#

52 21.2 10.2 15.2#

Manual Integrations
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MMDadoda
2/1/2019 3:55:37 PM



#42

1,2-Dichloroethane

Concen: 19.283 ug/l

RT: 7.36 min Scan# 644

Delta R.T. 0.03 min

Lab File: VD060801.D

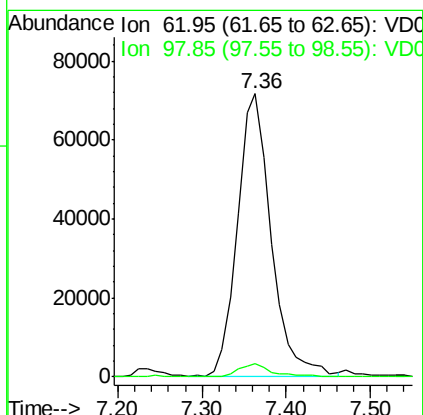
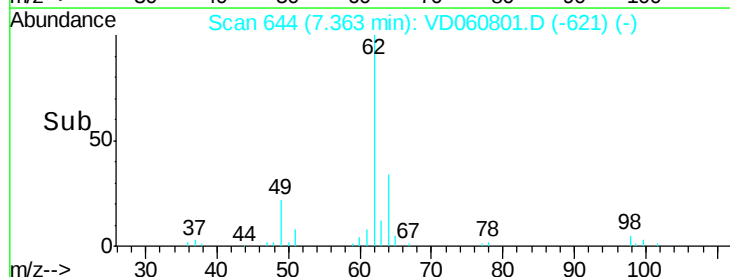
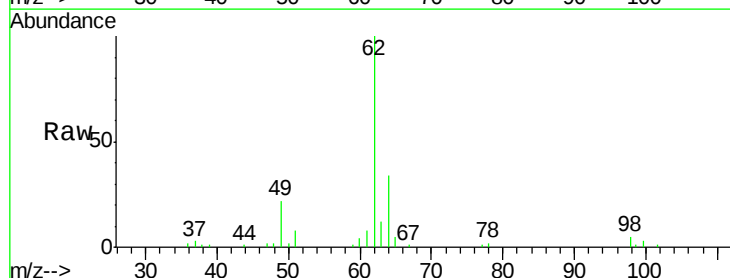
Acq: 30 Jan 2019 13:06

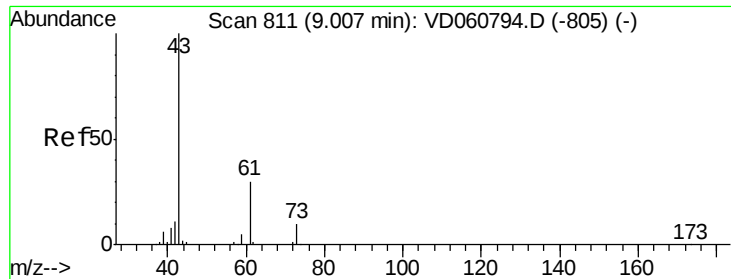
Tgt Ion: 62 Resp: 201538

Ion Ratio Lower Upper

62 100

98 4.8 0.0 10.2





#43

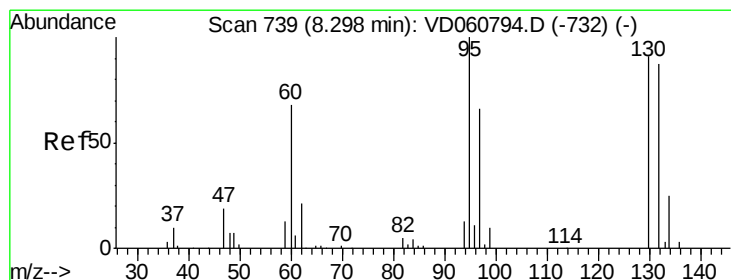
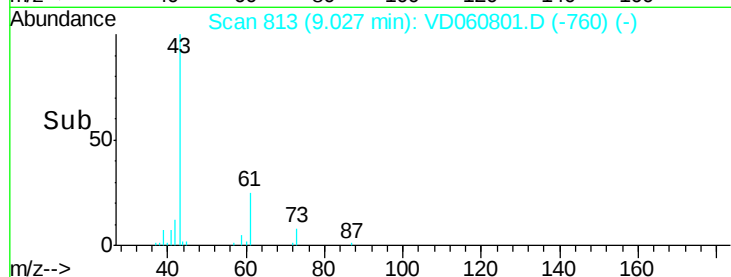
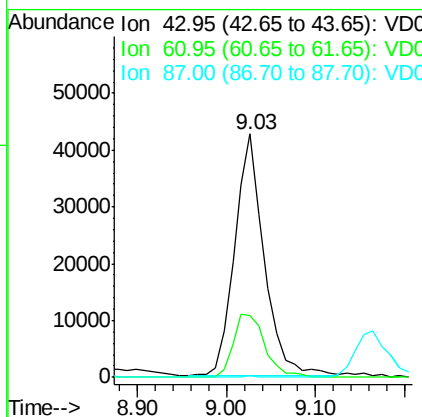
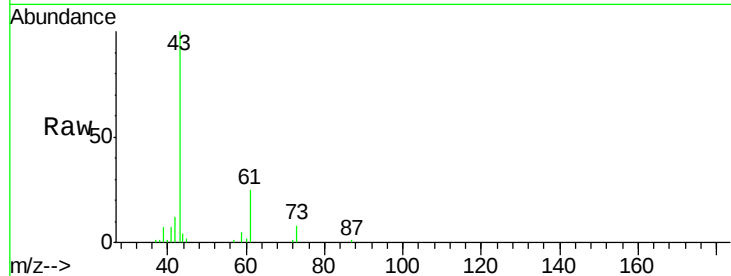
Isopropyl Acetate
 Concen: 18.360 ug/l
 RT: 9.03 min Scan# 813
 Delta R.T. 0.02 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.2	24.1	36.1
87	0.7	0.0	0.0

Manual Integrations
 APPROVED

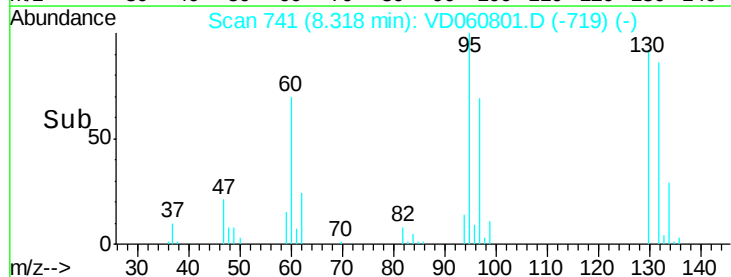
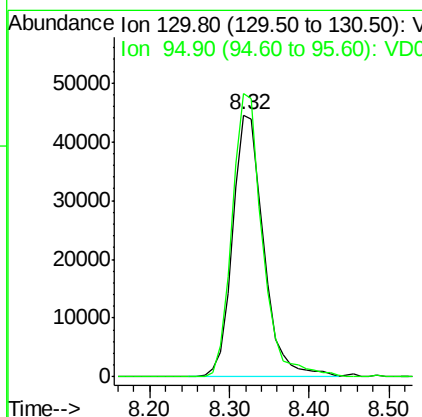
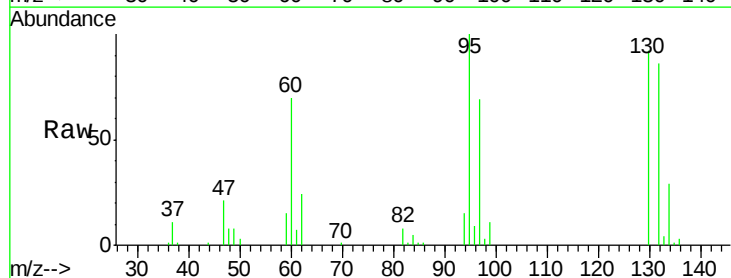
MMDadoda
 2/1/2019 3:55:37 PM

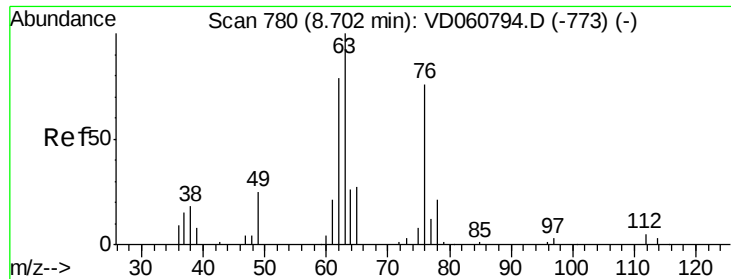


#44

Trichloroethene
 Concen: 19.832 ug/l
 RT: 8.32 min Scan# 741
 Delta R.T. 0.02 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.2	0.0	221.0





#45

1,2-Dichloropropane

Concen: 19.106 ug/l

RT: 8.72 min Scan# 782

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 63 Resp: 93046

Ion Ratio Lower Upper

63 100

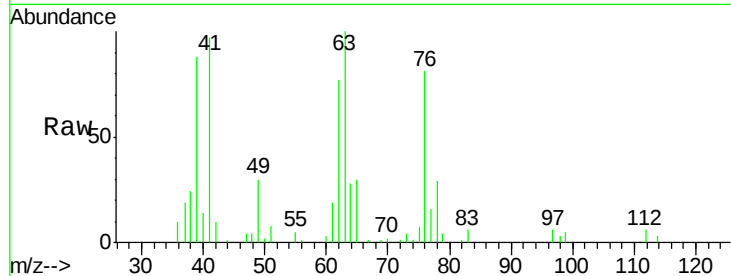
65 30.4 24.1 36.1

Manual Integrations

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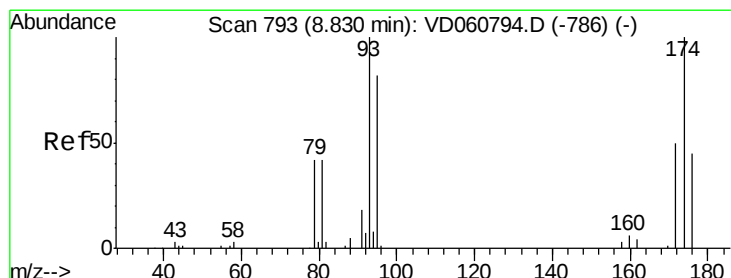
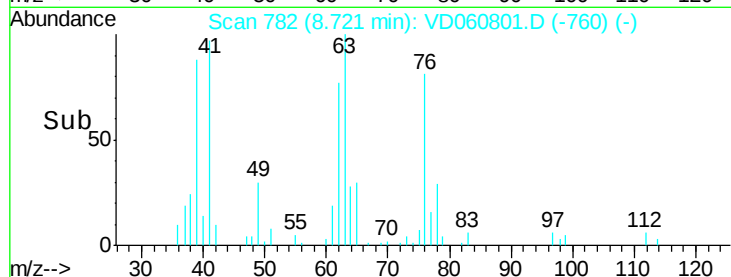
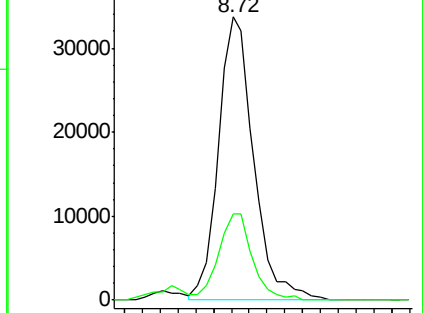
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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.123 ug/l

RT: 8.85 min Scan# 795

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

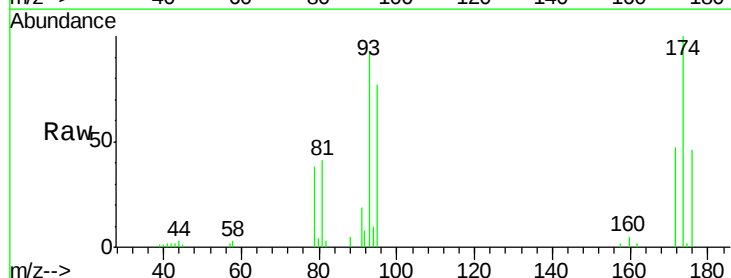
Tgt Ion: 93 Resp: 76078

Ion Ratio Lower Upper

93 100

95 84.2 65.8 98.8

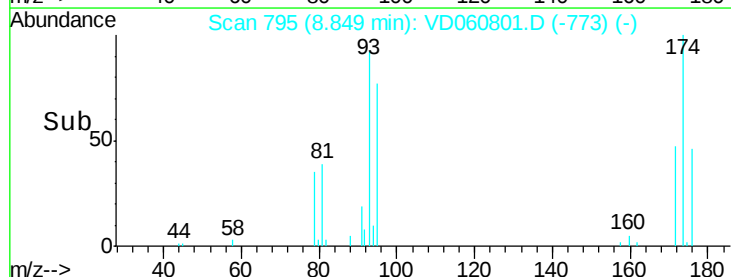
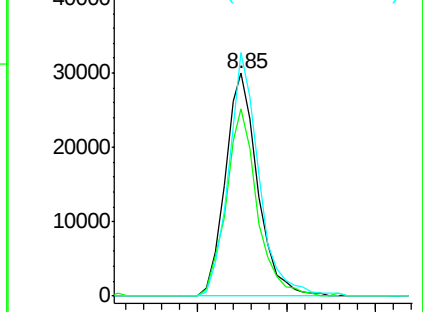
174 109.2 79.8 119.6

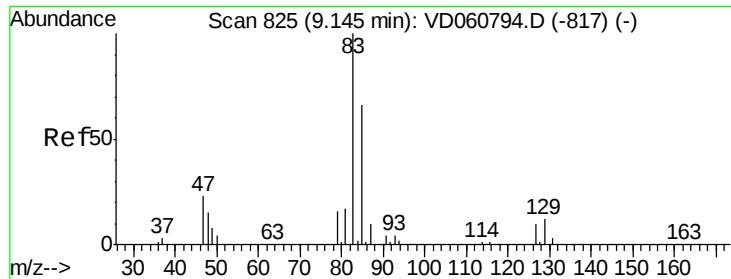


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 19.396 ug/l

RT: 9.16 min Scan# 827

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

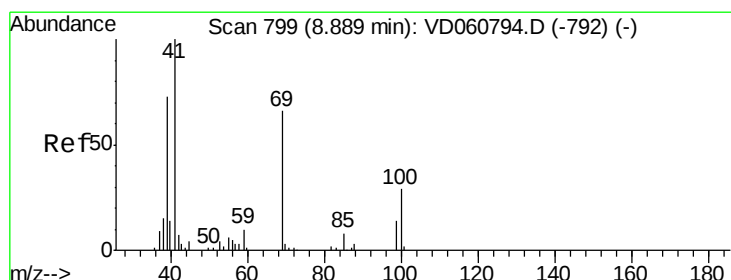
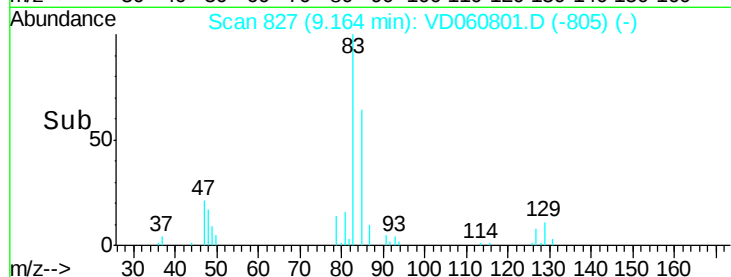
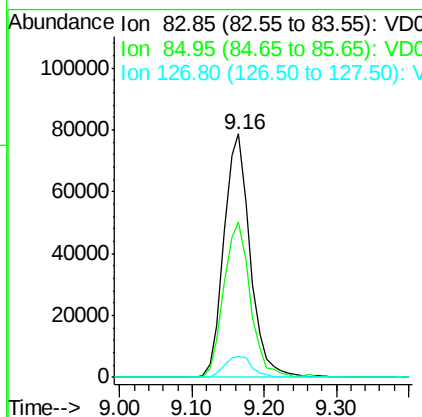
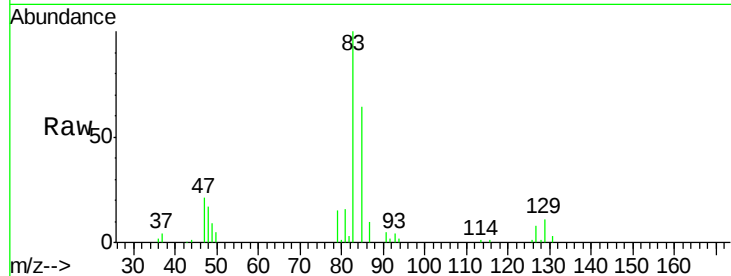
ClientSampleId :

VD0130SBS01

Tot Ion:	83	Resp:	197928
Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.6	79.0
127	8.4	7.7	11.5

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.299 ug/l

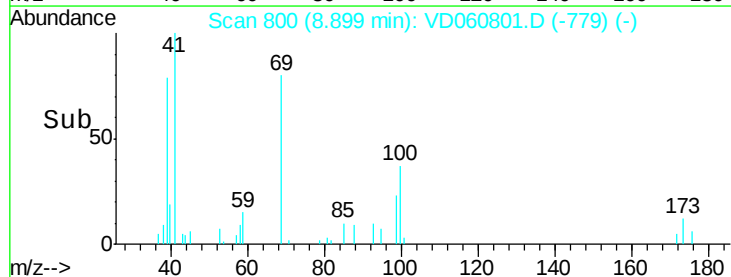
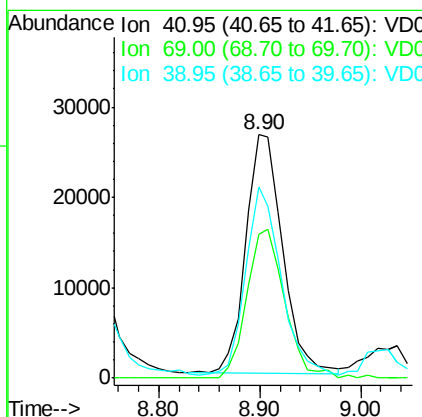
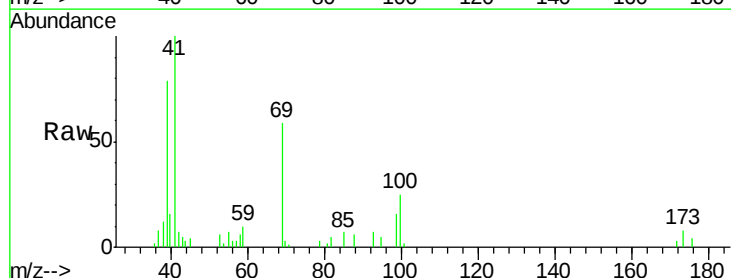
RT: 8.90 min Scan# 800

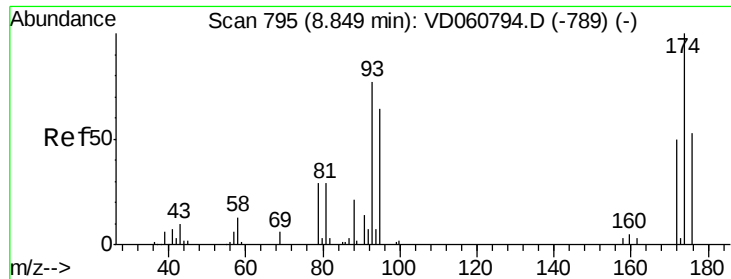
Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion:	41	Resp:	66970
Ion	Ratio	Lower	Upper
41	100		
69	59.1	52.5	78.7
39	78.7	59.0	88.6





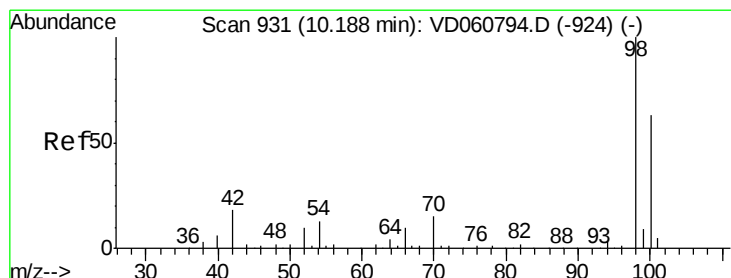
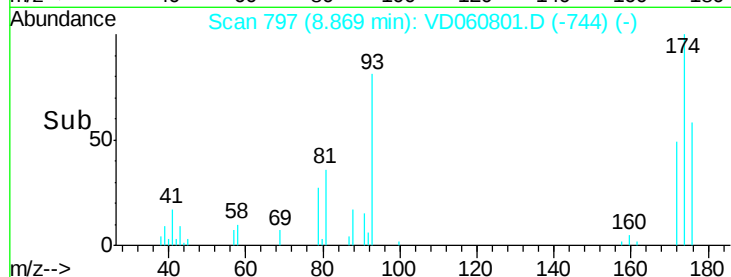
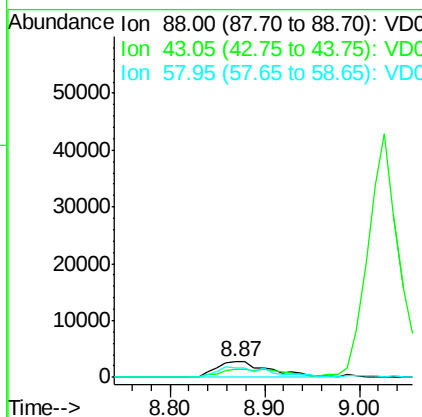
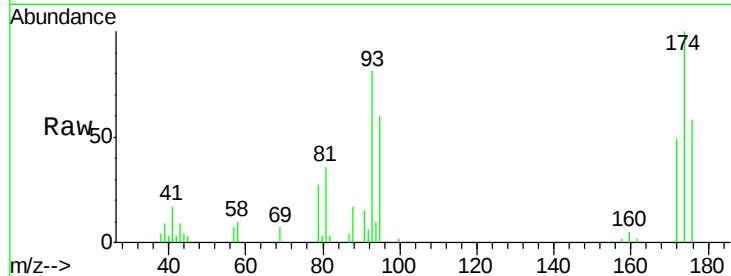
#49
1,4-Dioxane
Concen: 365.924 ug/l
RT: 8.87 min Scan# 797
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	88	Resp	10927
Ion Ratio	Lower	Upper	
88	100		
43	55.8	40.9	61.3
58	60.8	52.2	78.4

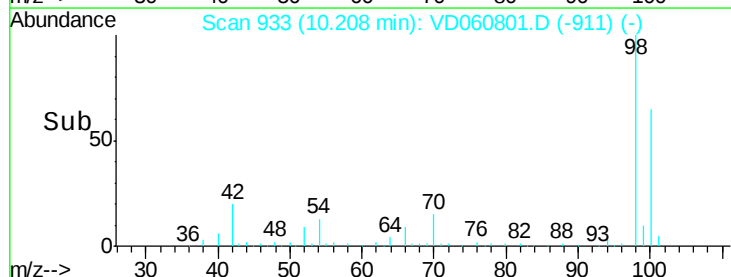
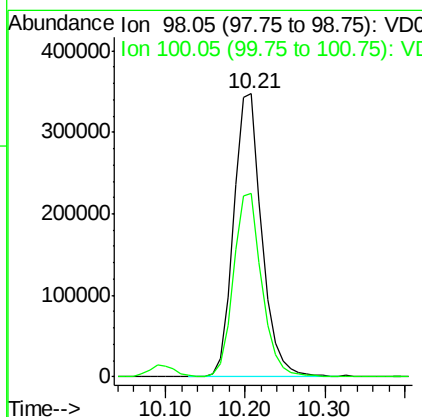
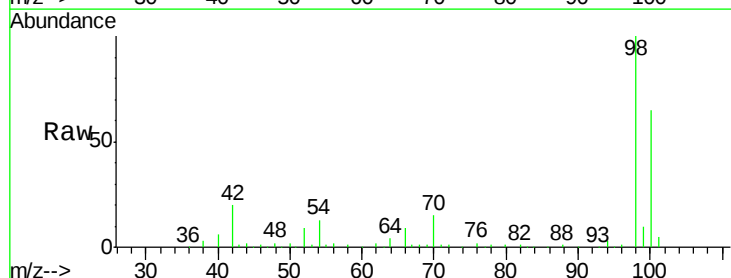
Manual Integrations
APPROVED

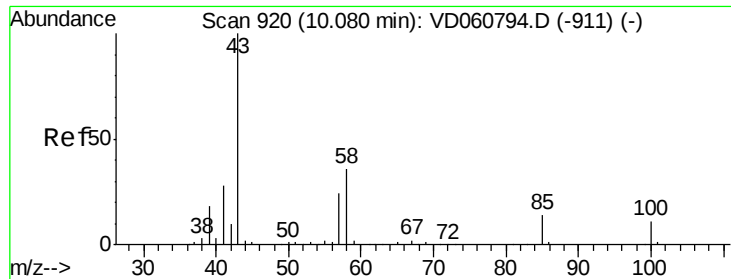
MMDadoda
2/1/2019 3:55:37 PM



#50
Toluene-d8
Concen: 365.924 ug/l
RT: 10.21 min Scan# 933
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	98	Resp	854041
Ion Ratio	Lower	Upper	
98	100		
100	65.1	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 89.703 ug/l

RT: 10.09 min Scan# 921

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 43 Resp: 308292

Ion Ratio Lower Upper

43 100

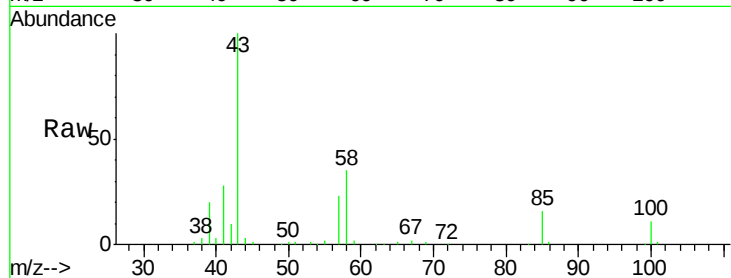
58 35.0 28.4 42.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

150000

100000

50000

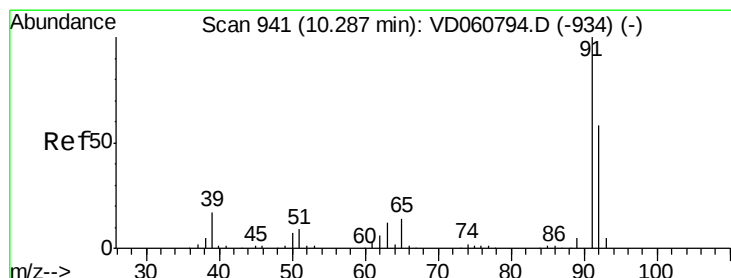
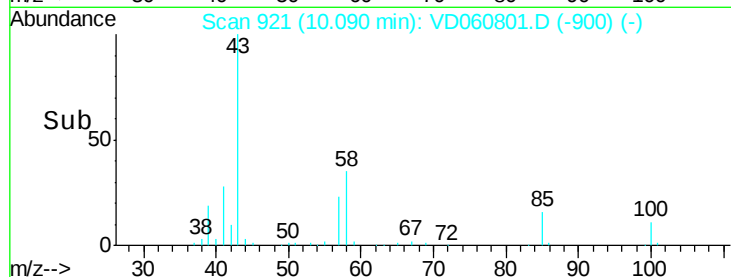
0

10.09

10.10

10.20

Time-->



#52

Toluene

Concen: 20.213 ug/l

RT: 10.30 min Scan# 942

Delta R.T. 0.01 min

Lab File: VD060801.D

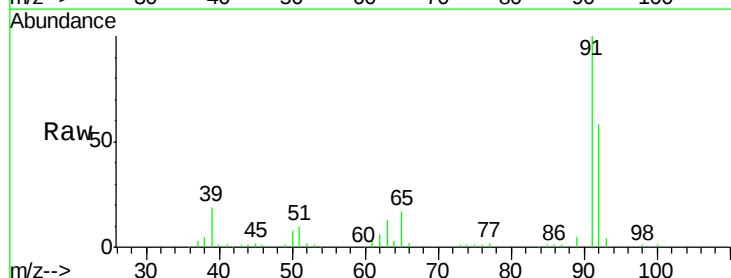
Acq: 30 Jan 2019 13:06

Tgt Ion: 92 Resp: 230673

Ion Ratio Lower Upper

92 100

91 171.7 137.7 206.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

150000

100000

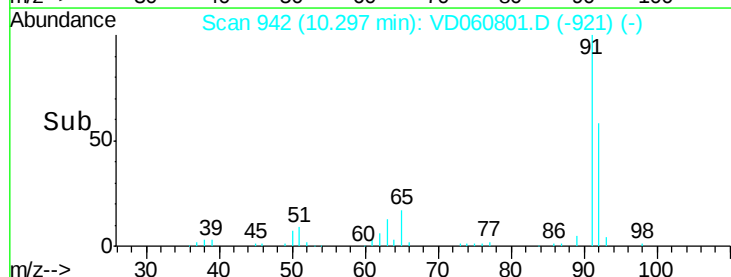
50000

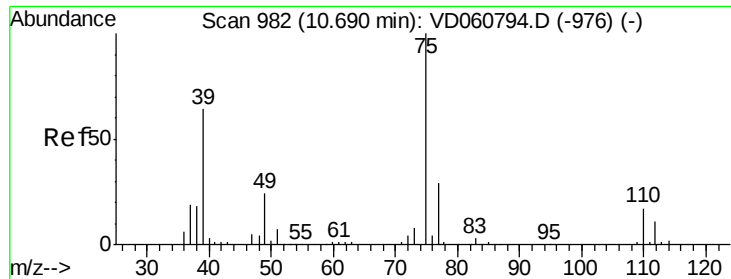
0

10.30

10.40

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.499 ug/l

RT: 10.71 min Scan# 984

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 75 Resp: 175028

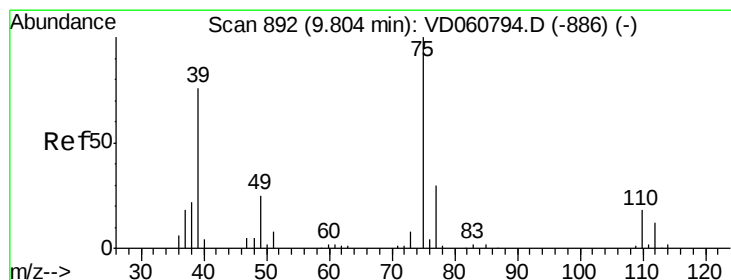
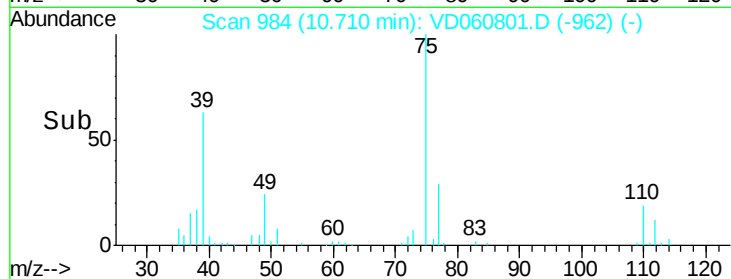
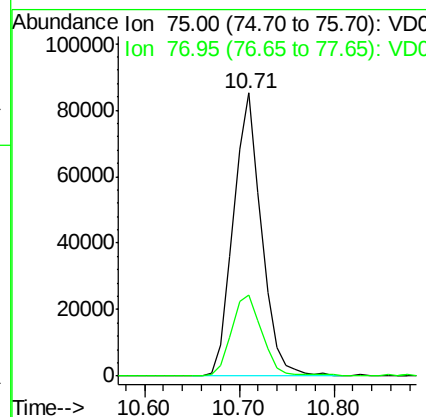
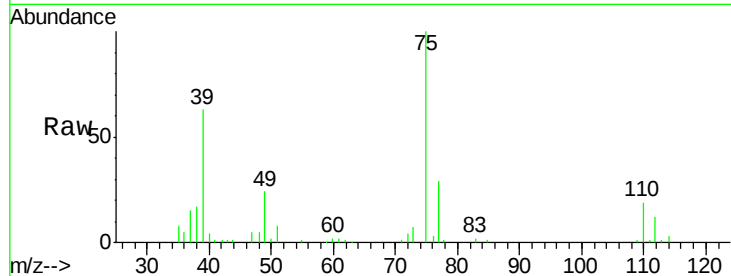
Ion Ratio Lower Upper

75 100

77 28.8 23.0 34.6

Manual Integrations
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2/1/2019 3:55:37 PM



#54

cis-1,3-Dichloropropene

Concen: 20.800 ug/l

RT: 9.82 min Scan# 894

Delta R.T. 0.02 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

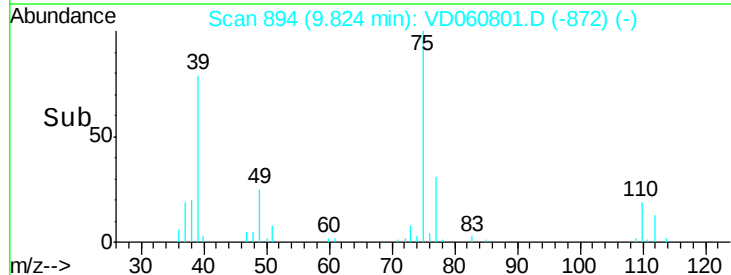
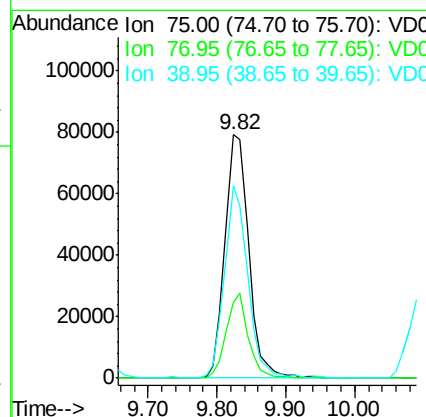
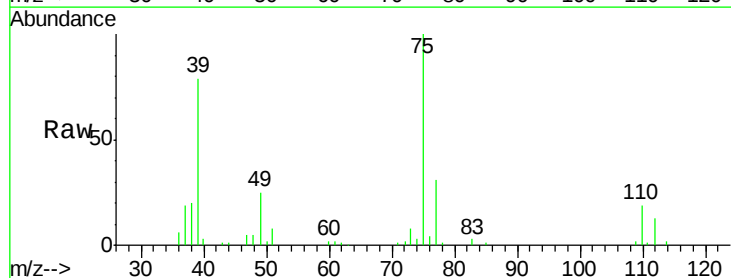
Tgt Ion: 75 Resp: 191462

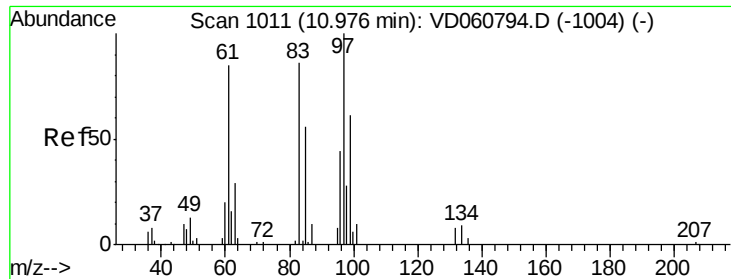
Ion Ratio Lower Upper

75 100

77 31.2 23.9 35.9

39 79.2 60.4 90.6





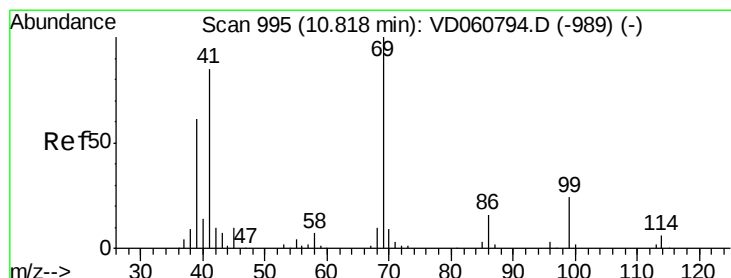
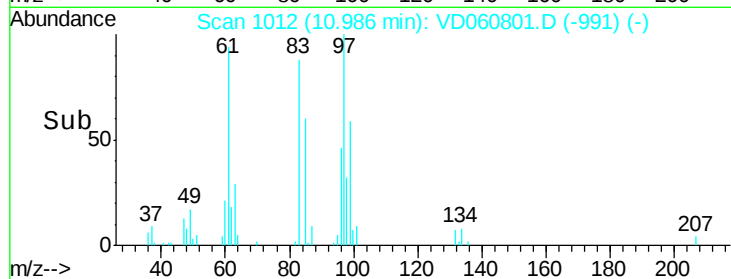
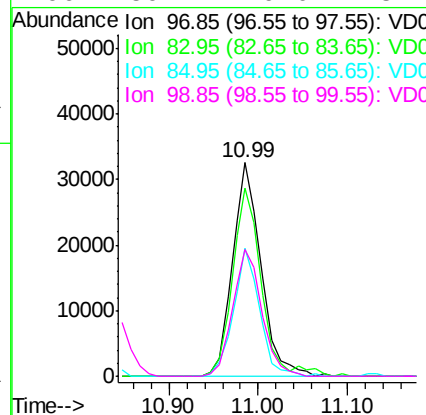
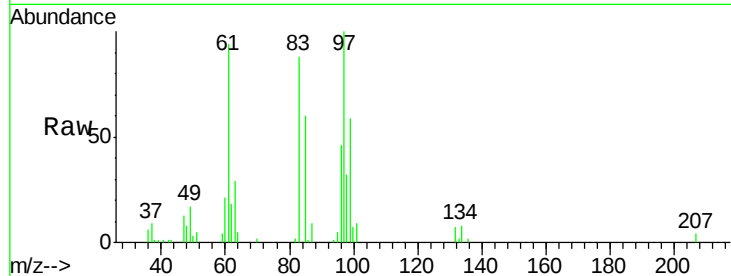
#55
 1,1,2-Trichloroethane
 Concen: 18.803 ug/l
 RT: 10.99 min Scan# 1012
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		73160		
83	87.9	68.5	102.7		
85	59.7	45.0	67.6		
99	59.4	49.0	73.4		

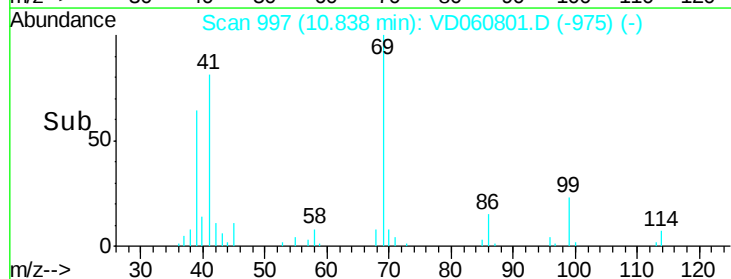
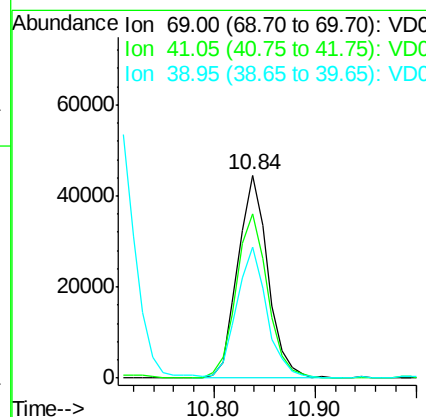
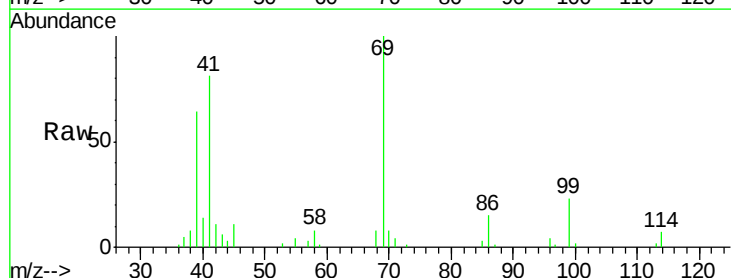
Manual Integrations
 APPROVED

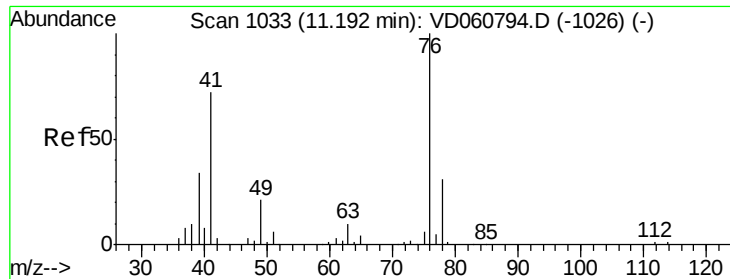
MMDadoda
 2/1/2019 3:55:37 PM



#56
 Ethyl methacrylate
 Concen: 19.654 ug/l
 RT: 10.84 min Scan# 997
 Delta R.T. 0.02 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		92637		
41	81.0	68.2	102.2		
39	64.2	49.4	74.0		





#57

1,3-Dichloropropane

Concen: 19.734 ug/l

RT: 11.20 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 76 Resp: 131223

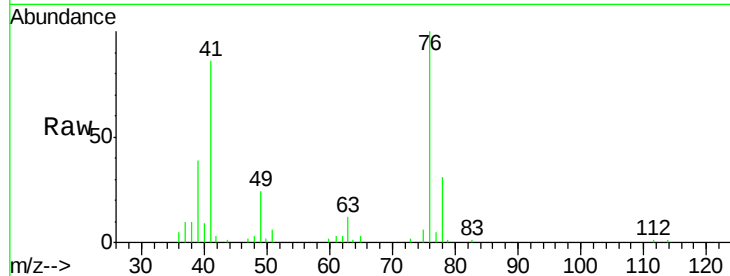
Ion Ratio Lower Upper

76 100

78 30.6 24.5 36.7

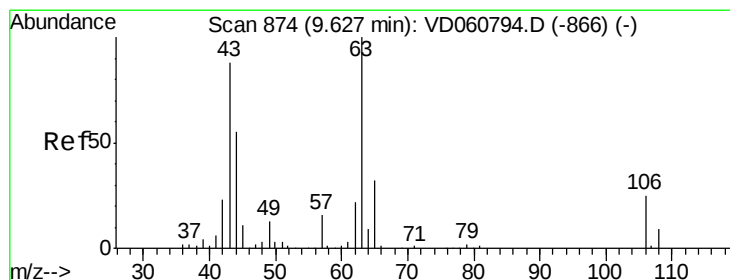
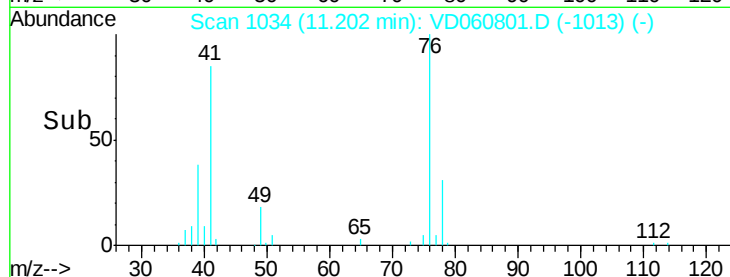
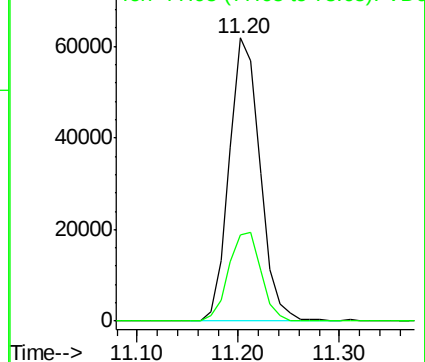
Manual Integrations
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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 100.822 ug/l

RT: 9.65 min Scan# 876

Delta R.T. 0.02 min

Lab File: VD060801.D

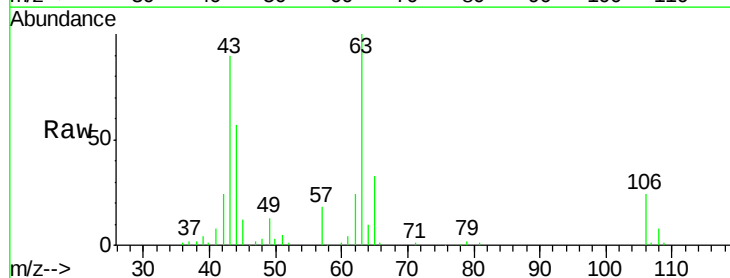
Acq: 30 Jan 2019 13:06

Tgt Ion: 63 Resp: 249336

Ion Ratio Lower Upper

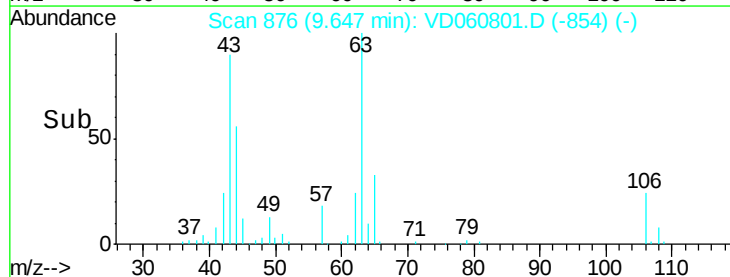
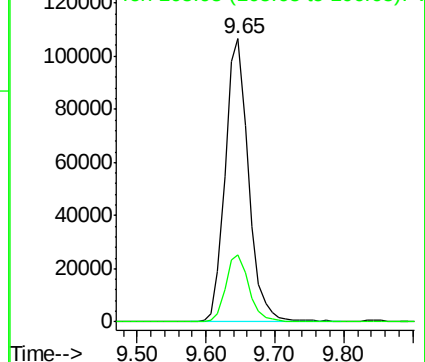
63 100

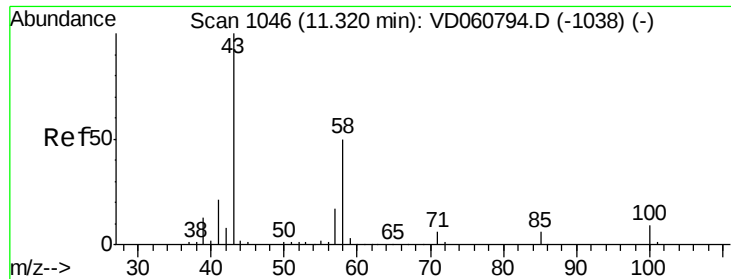
106 23.7 19.9 29.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





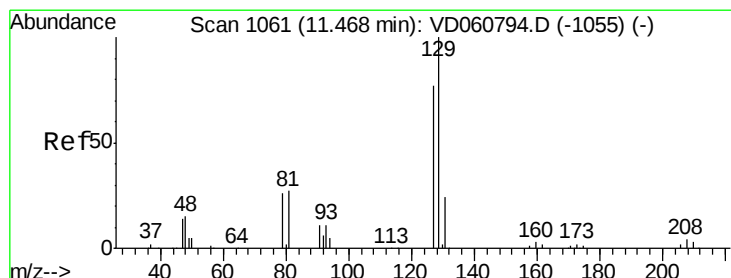
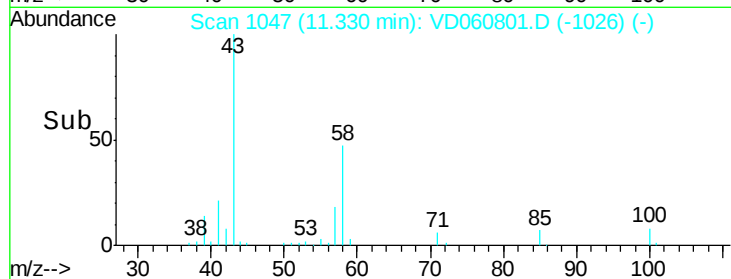
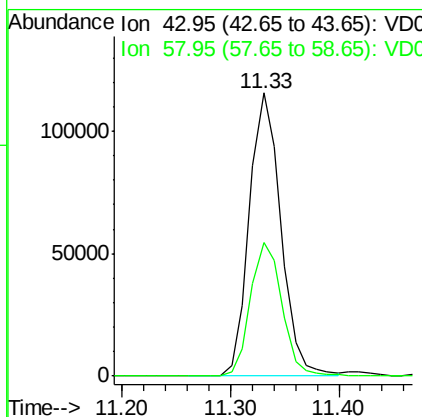
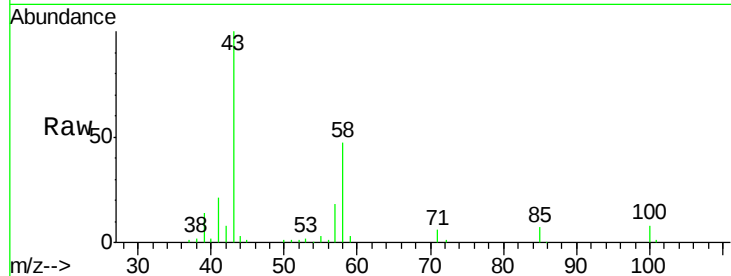
#59
2-Hexanone
Concen: 90.928 ug/l
RT: 11.33 min Scan# 1047
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion: 43 Resp: 234973
Ion Ratio Lower Upper
43 100
58 47.1 25.0 75.0

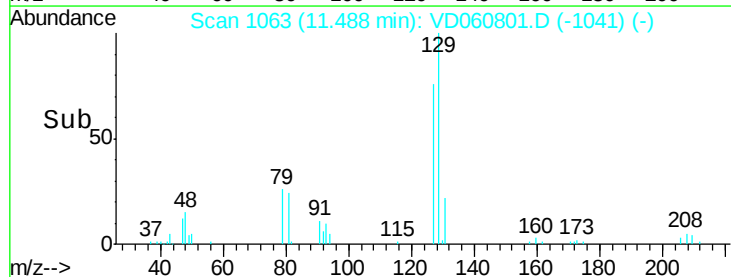
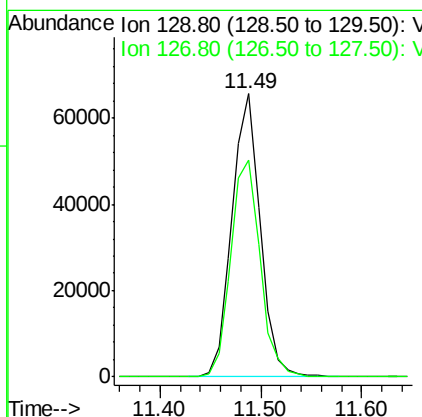
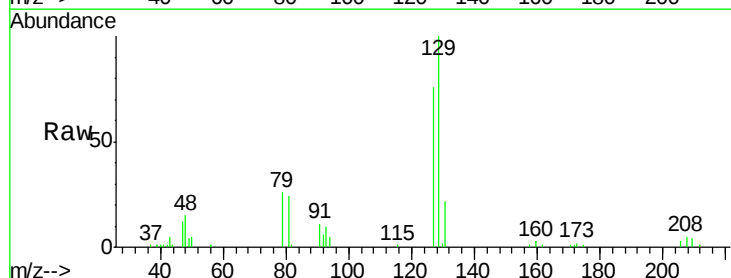
Manual Integrations
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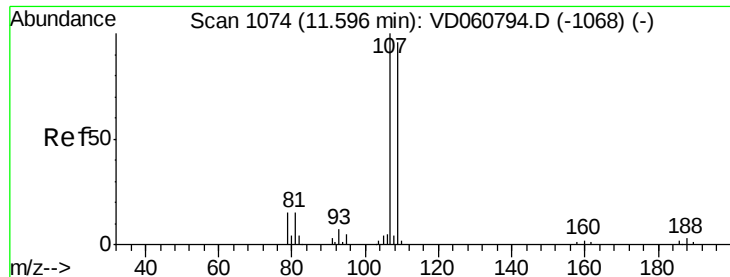
MMDadoda
2/1/2019 3:55:37 PM



#60
Dibromochloromethane
Concen: 18.308 ug/l
RT: 11.49 min Scan# 1063
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion:129 Resp: 128062
Ion Ratio Lower Upper
129 100
127 76.5 38.6 115.7





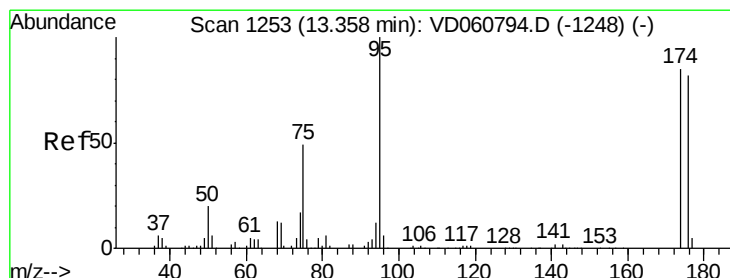
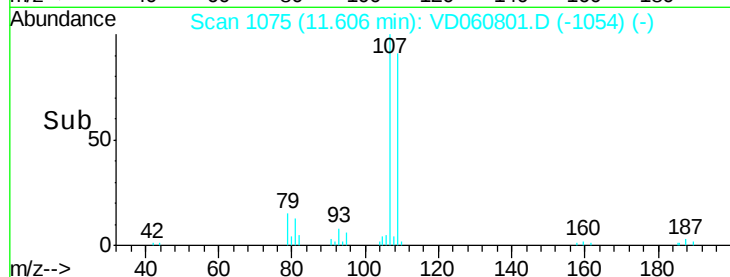
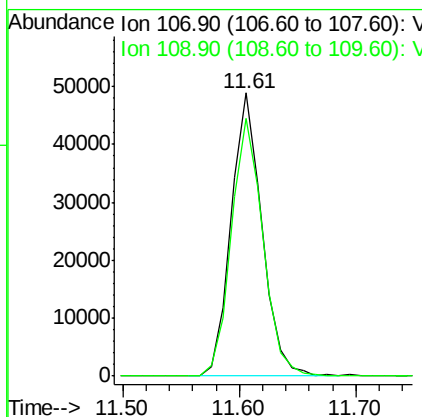
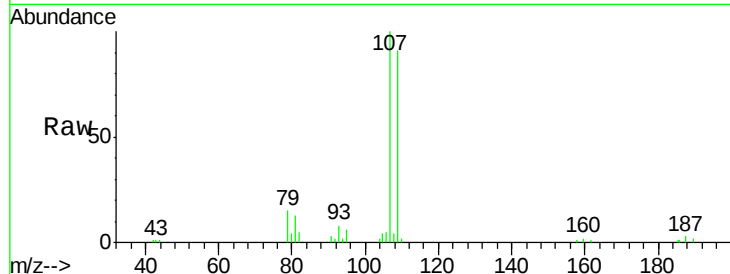
#61
1,2-Dibromoethane
Concen: 19.507 ug/l
RT: 11.61 min Scan# 1075
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion:107 Resp: 89384
Ion Ratio Lower Upper
107 100
109 91.2 76.6 114.8

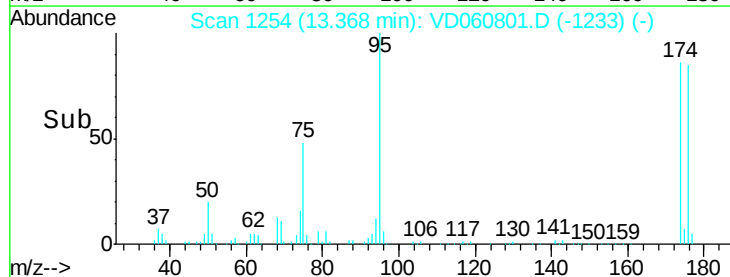
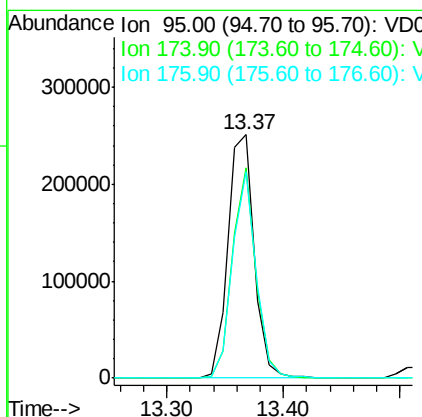
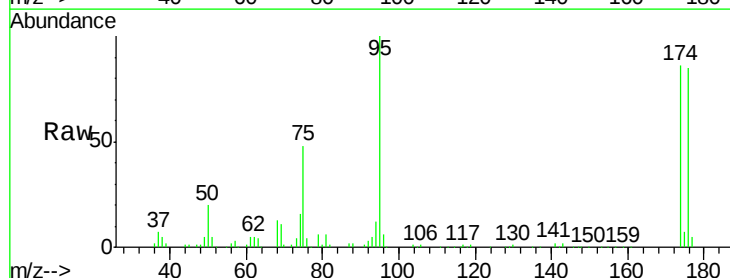
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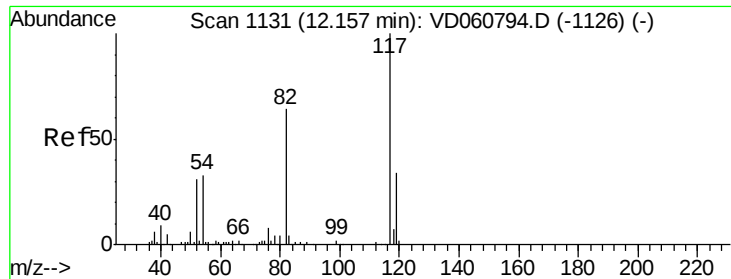
MMDadoda
2/1/2019 3:55:37 PM



#62
4-Bromofluorobenzene
Concen: 19.507 ug/l
RT: 13.37 min Scan# 1254
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion: 95 Resp: 391693
Ion Ratio Lower Upper
95 100
174 86.5 0.0 169.6
176 85.0 0.0 163.8





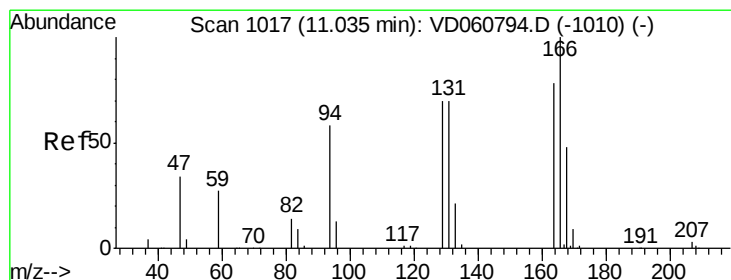
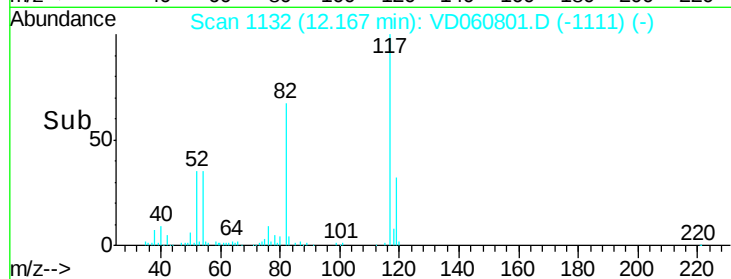
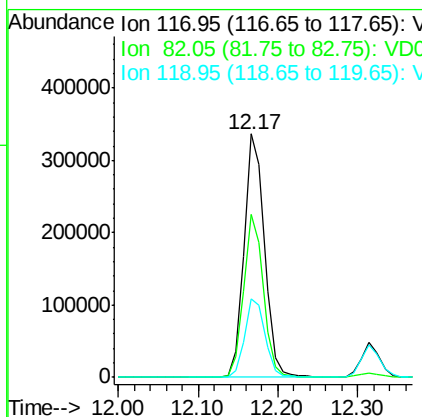
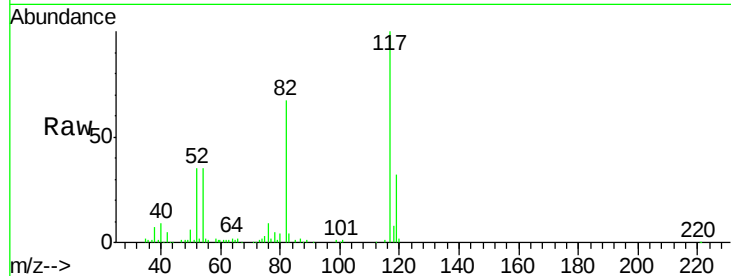
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.17 min Scan# 1132
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	593172		
82	66.7	51.5	77.3	
119	32.3	27.1	40.7	

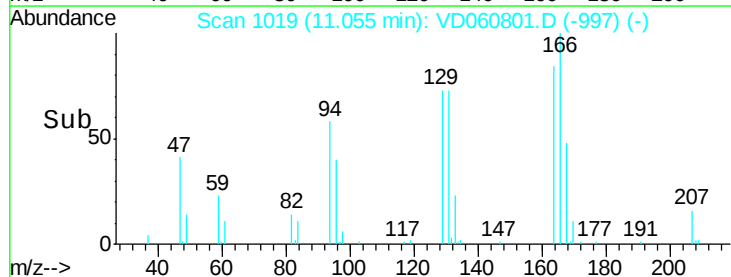
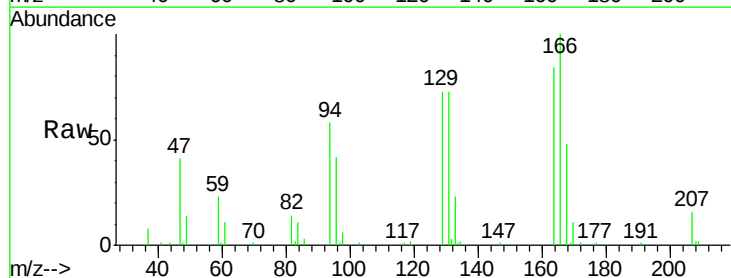
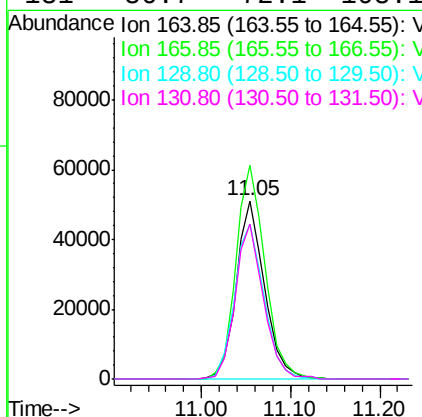
Manual Integrations
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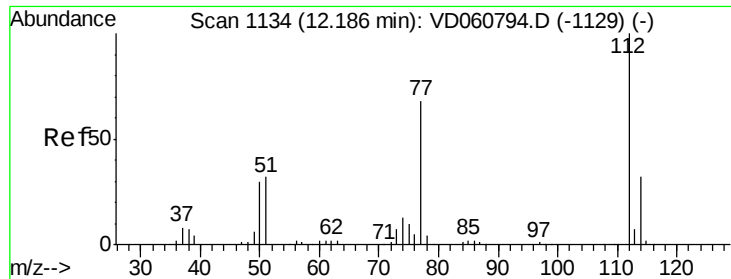
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#64
Tetrachloroethene
Concen: 20.710 ug/l
RT: 11.05 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	112743		
166	119.6	102.6	154.0	
129	86.9	72.3	108.5	
131	86.7	72.1	108.1	





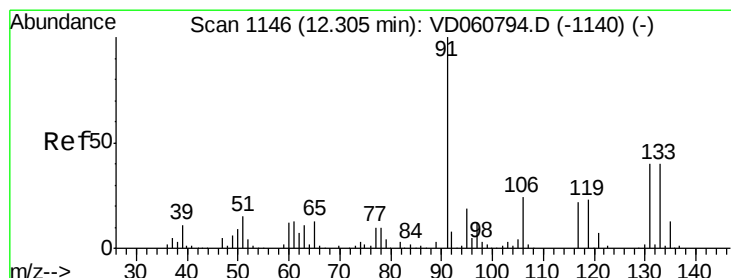
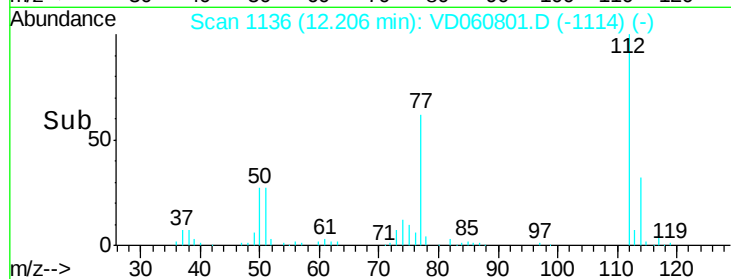
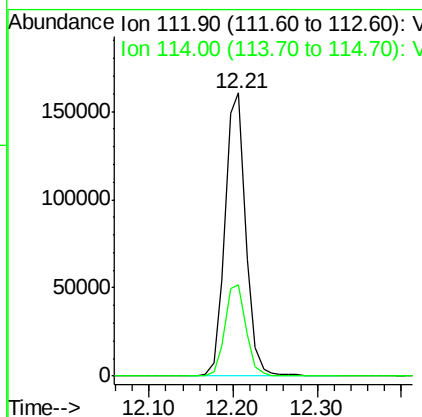
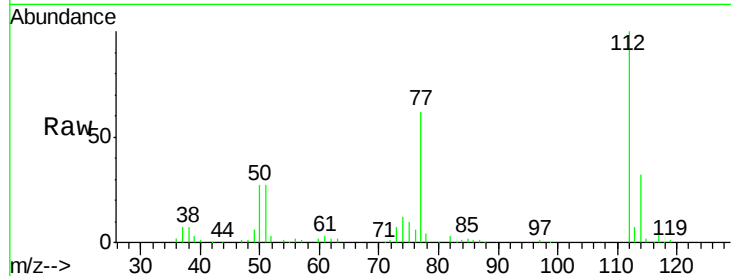
#65
Chlorobenzene
Concen: 20.217 ug/l
RT: 12.21 min Scan# 1136
Delta R.T. 0.02 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion:112 Resp: 274042
Ion Ratio Lower Upper
112 100
114 32.3 25.2 37.8

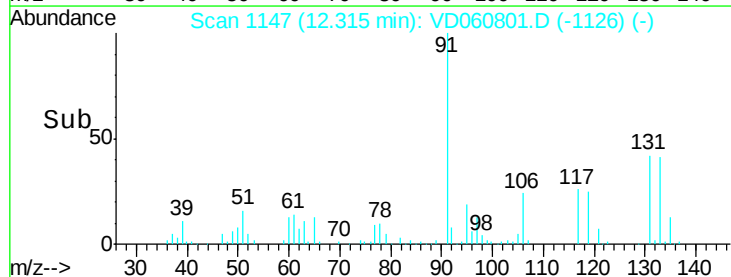
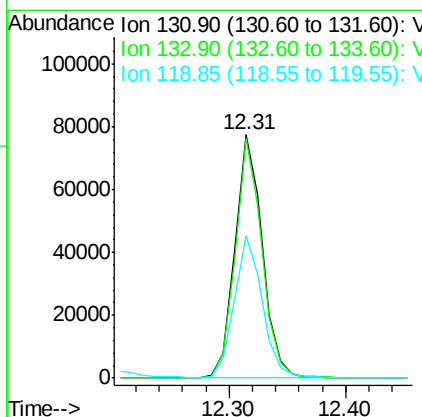
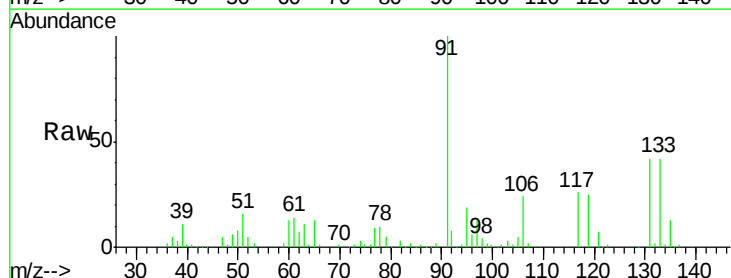
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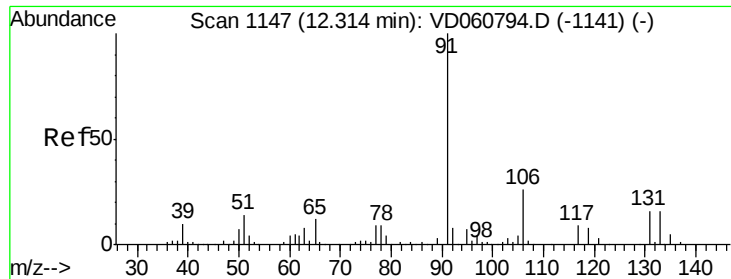
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.563 ug/l
RT: 12.31 min Scan# 1147
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion:131 Resp: 125577
Ion Ratio Lower Upper
131 100
133 98.7 49.9 149.7
119 58.6 28.5 85.5





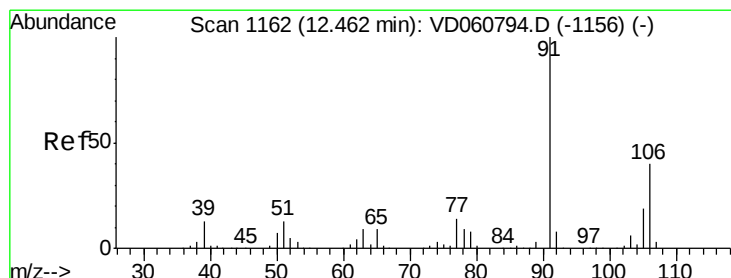
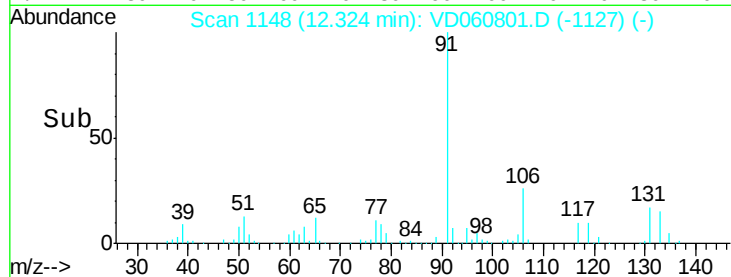
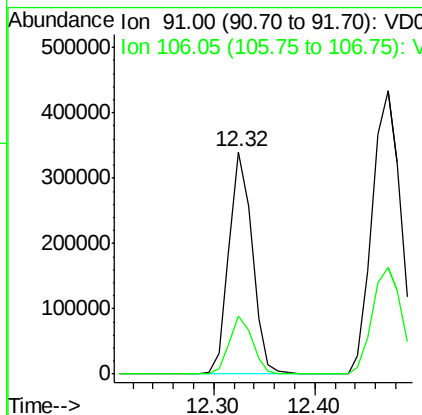
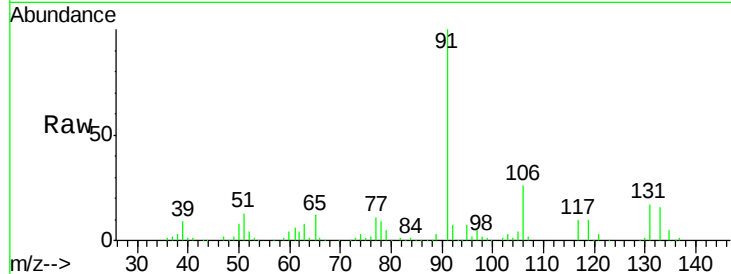
#67
Ethyl Benzene
Concen: 22.491 ug/l
RT: 12.32 min Scan# 1148
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion: 91 Resp: 548229
Ion Ratio Lower Upper
91 100
106 26.2 21.0 31.6

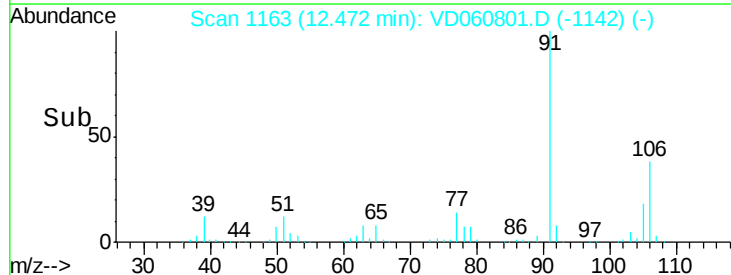
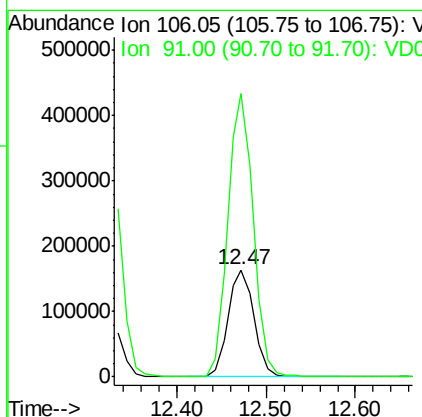
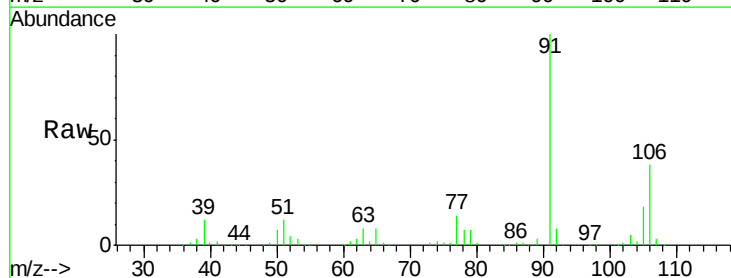
Manual Integrations
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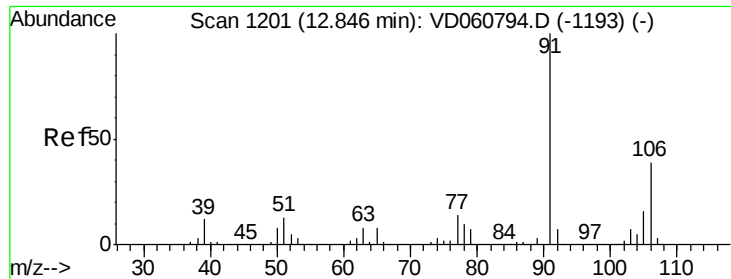
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#68
m/p-Xylenes
Concen: 42.394 ug/l
RT: 12.47 min Scan# 1163
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion: 106 Resp: 336196
Ion Ratio Lower Upper
106 100
91 263.8 200.5 300.7





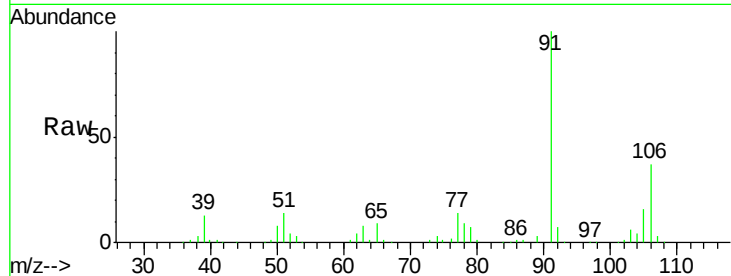
#69
o-Xylene
Concen: 21.919 ug/l
RT: 12.86 min Scan# 1202
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

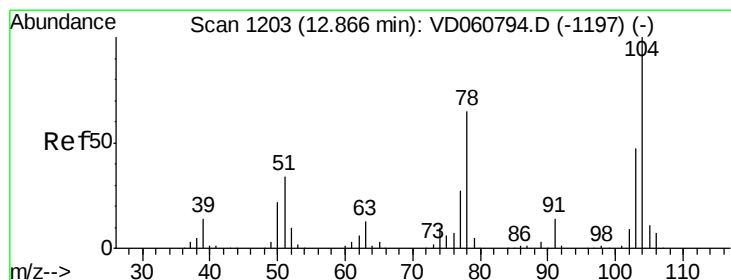
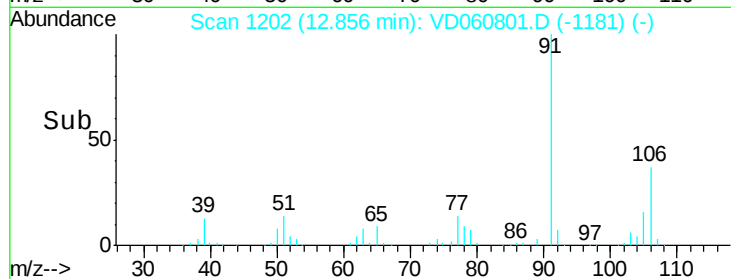
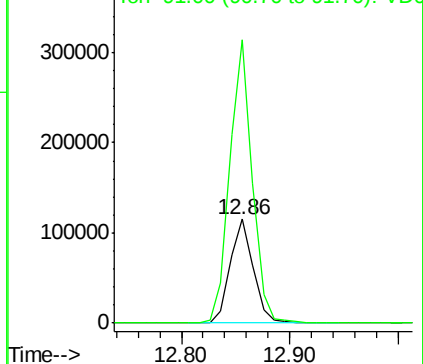
Tot Ion:106 Resp: 172041
Ion Ratio Lower Upper
106 100
91 272.7 127.6 382.7

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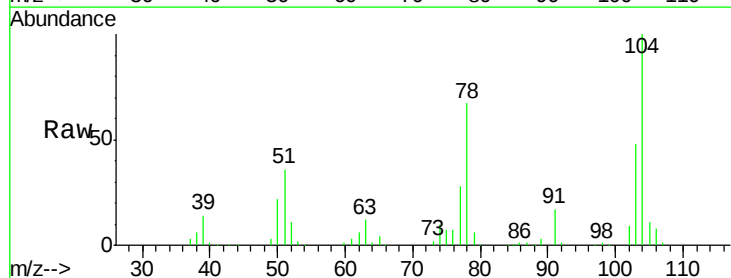


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

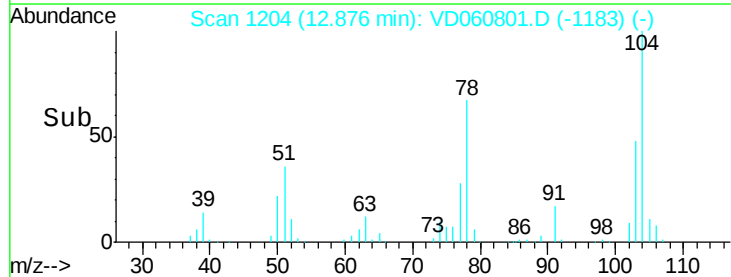
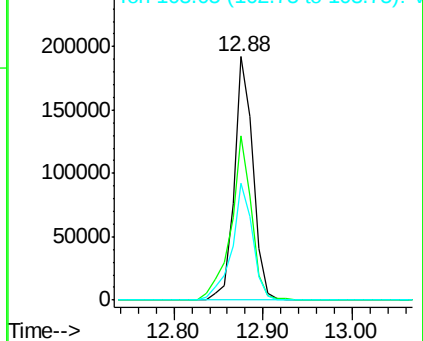


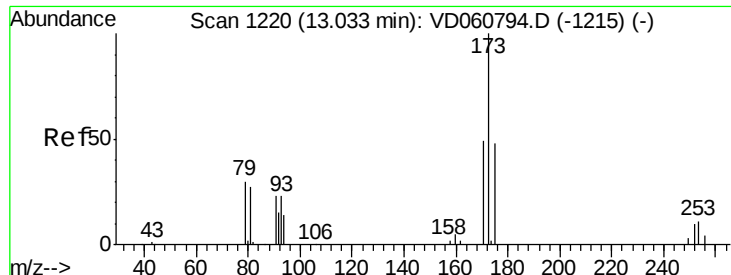
#70
Styrene
Concen: 21.607 ug/l
RT: 12.88 min Scan# 1204
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion:104 Resp: 284392
Ion Ratio Lower Upper
104 100
78 67.3 52.0 78.0
103 47.8 37.7 56.5



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





#71

Bromoform

Concen: 18.875 ug/l

RT: 13.04 min Scan# 1221

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

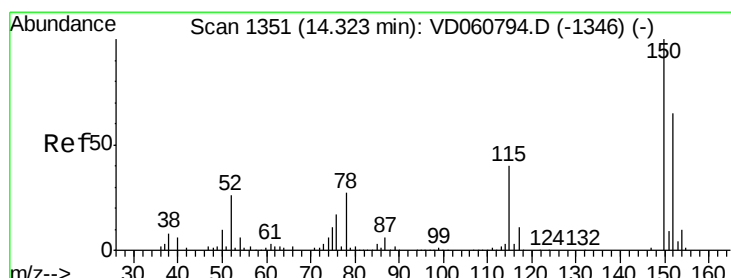
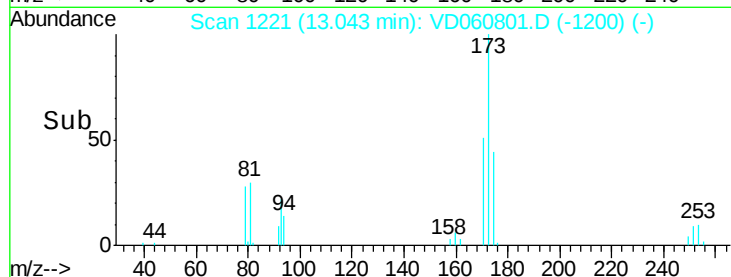
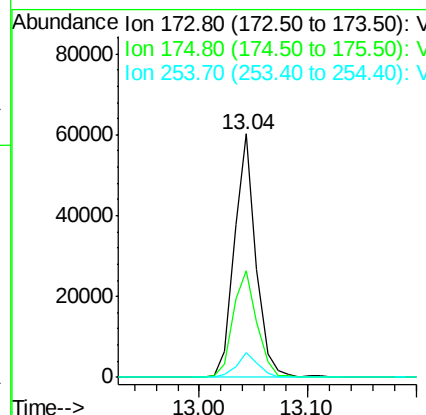
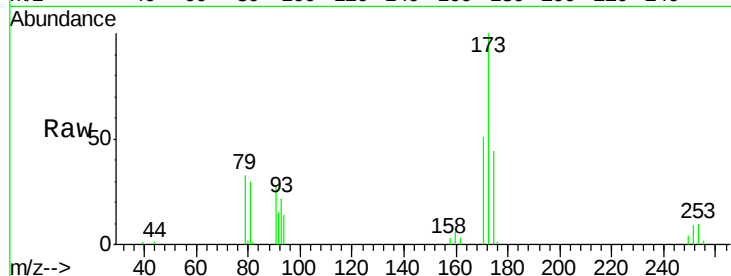
ClientSampleId :

VD0130SBS01

Tot Ion:	173	Resp:	82821
Ion Ratio	Lower	Upper	
173	100		
175	43.9	24.1	72.4
254	10.0	9.1	13.7

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

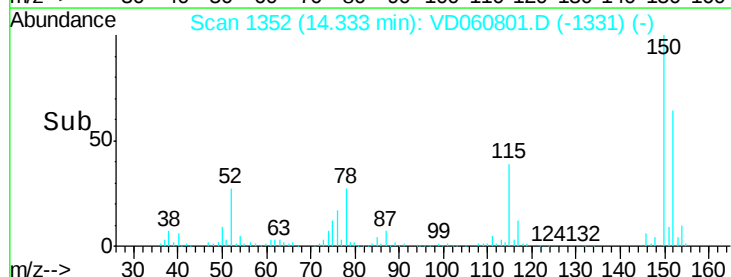
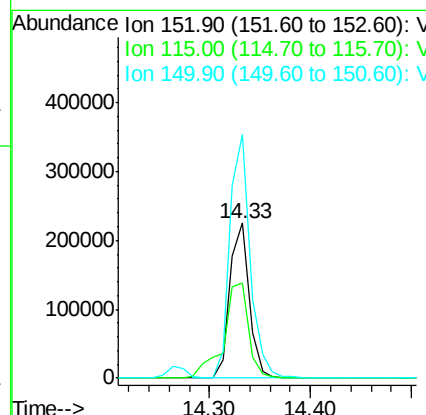
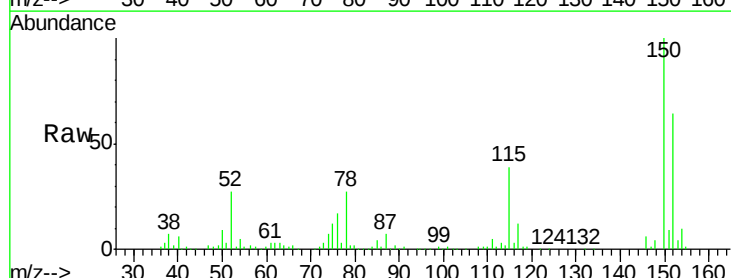
RT: 14.33 min Scan# 1352

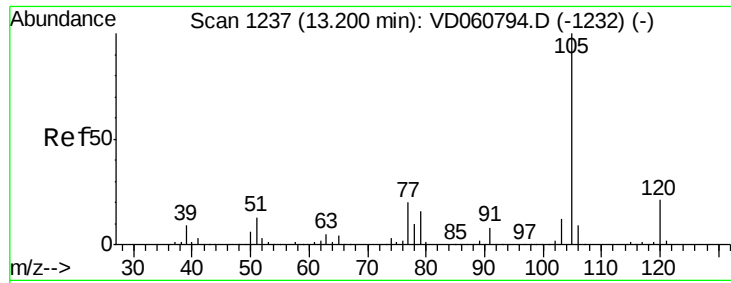
Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion:	152	Resp:	302470
Ion Ratio	Lower	Upper	
152	100		
115	60.9	31.6	95.0
150	156.9	0.0	317.6





#73

Isopropylbenzene

Concen: 21.186 ug/l

RT: 13.21 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion: 105 Resp: 510923

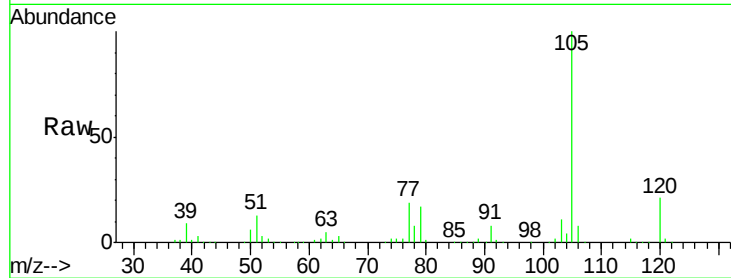
Ion Ratio Lower Upper

105 100

120 20.5 10.7 32.1

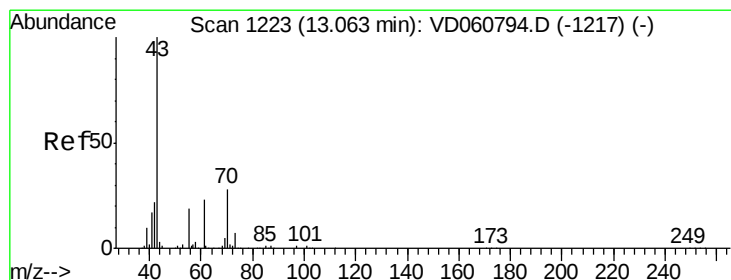
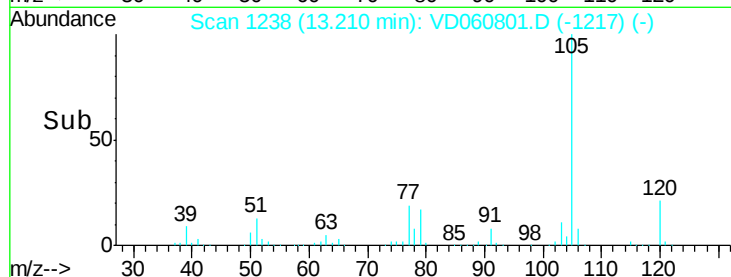
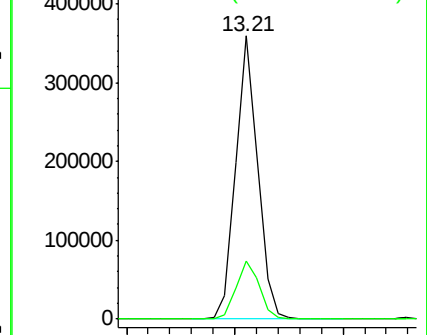
Manual Integrations
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.622 ug/l

RT: 13.07 min Scan# 1224

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion: 43 Resp: 145472

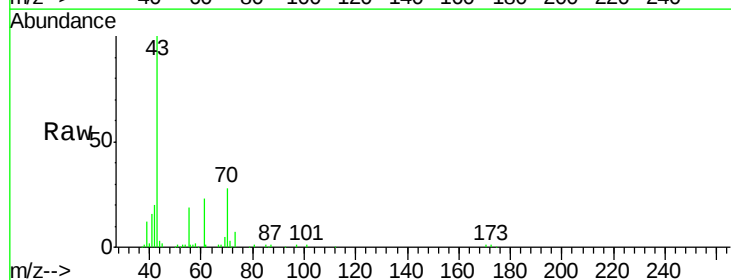
Ion Ratio Lower Upper

43 100

70 28.2 22.2 33.4

55 19.0 15.5 23.3

61 23.5 18.4 27.6

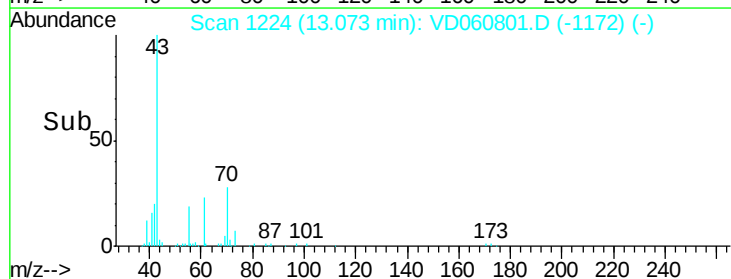
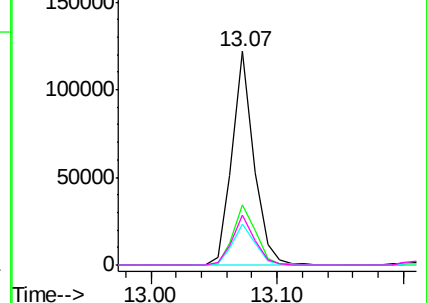


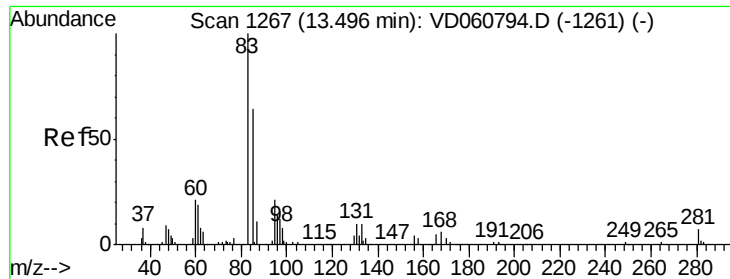
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 19.097 ug/l

RT: 13.51 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

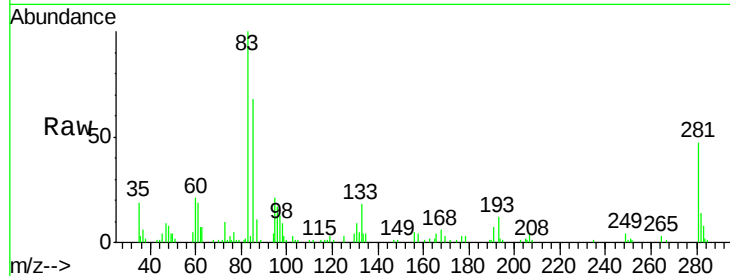
ClientSampleId :

VD0130SBS01

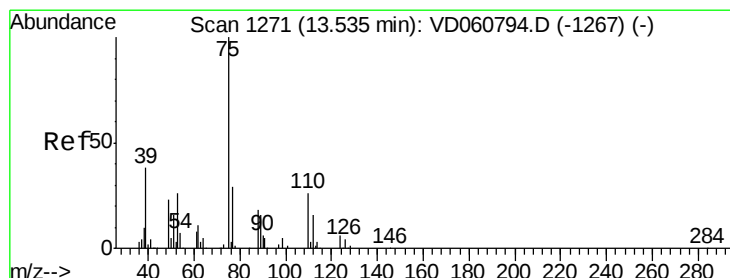
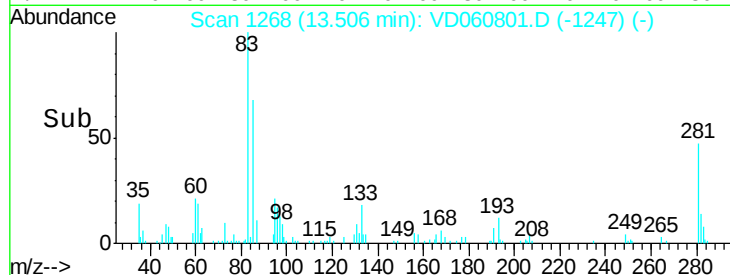
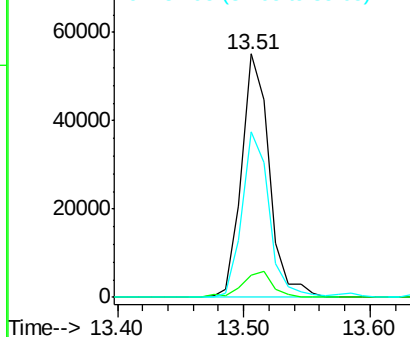
Tot Ion:	83	Resp:	83857
Ion Ratio	Lower	Upper	
83	100		
131	9.3	5.0	15.0
85	68.2	31.8	95.4

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



#76

1,2,3-Trichloropropane

Concen: 19.974 ug/l

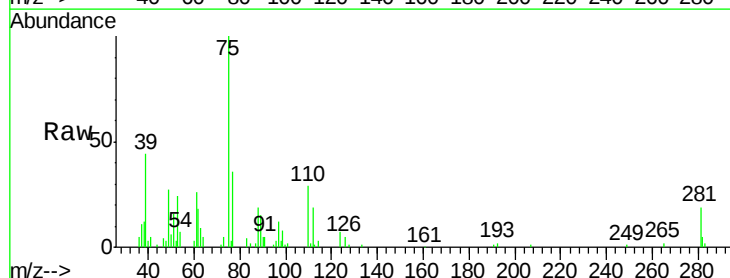
RT: 13.55 min Scan# 1272

Delta R.T. 0.01 min

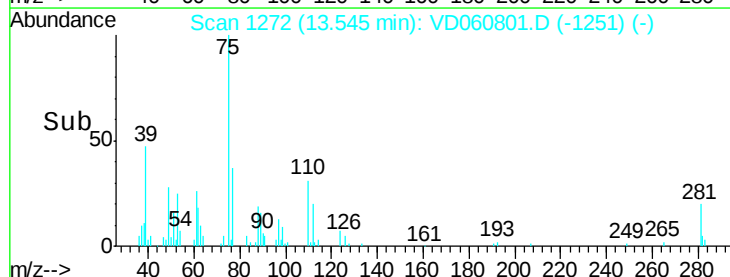
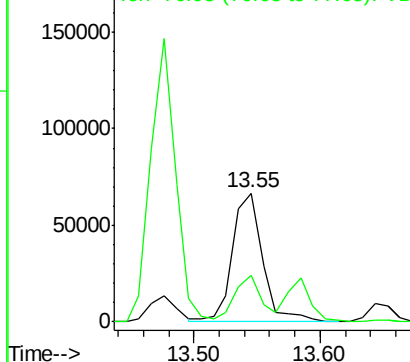
Lab File: VD060801.D

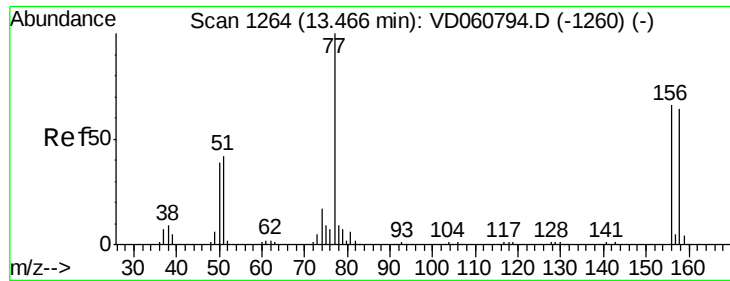
Acq: 30 Jan 2019 13:06

Tgt Ion:	75	Resp:	110789
Ion Ratio	Lower	Upper	
75	100		
77	35.8	15.9	47.7



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





#77

Bromobenzene

Concen: 20.119 ug/l

RT: 13.48 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

ClientSampleId :

VD0130SBS01

Tot Ion:156 Resp: 124723

Ion Ratio Lower Upper

156 100

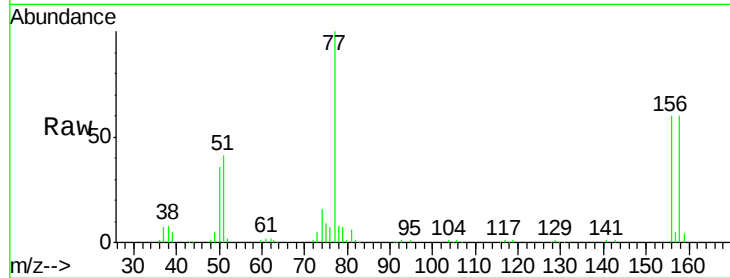
77 167.0 76.0 228.0

158 100.4 48.4 145.0

Manual Integrations
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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

200000

150000

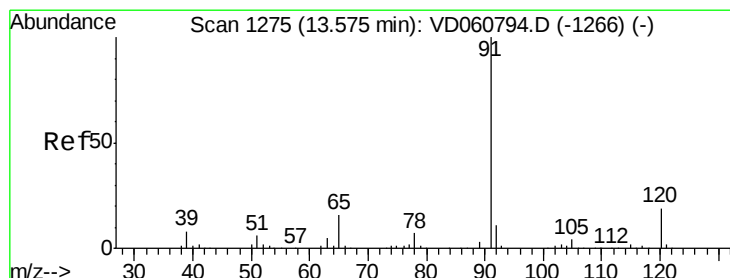
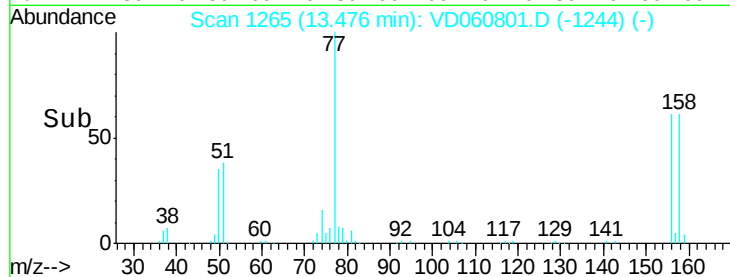
100000

50000

0

13.40 13.45 13.50 13.55

Time-->



#78

n-propylbenzene

Concen: 21.218 ug/l

RT: 13.58 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VD060801.D

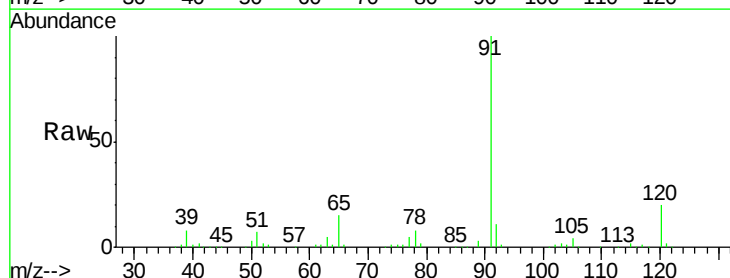
Acq: 30 Jan 2019 13:06

Tgt Ion: 91 Resp: 642367

Ion Ratio Lower Upper

91 100

120 19.6 9.7 28.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

500000

400000

300000

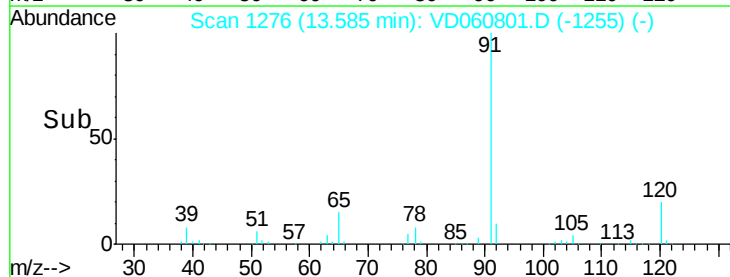
200000

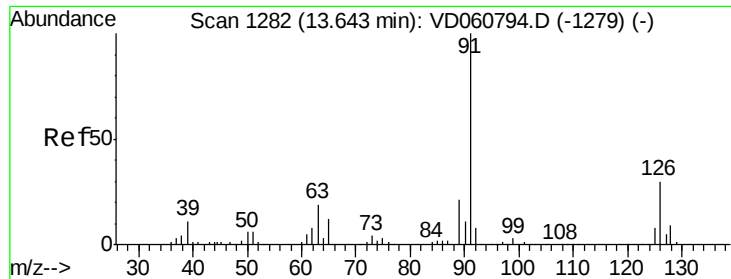
100000

0

13.50 13.55 13.60

Time-->





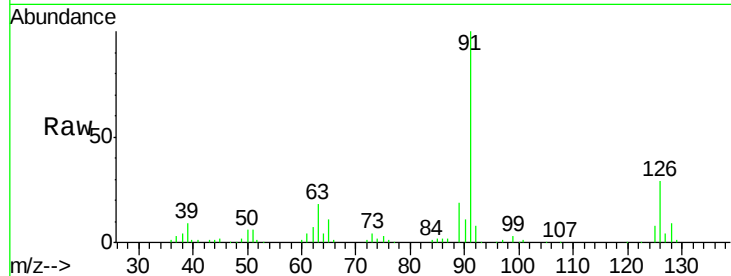
#79
2-Chlorotoluene
Concen: 21.981 ug/l
RT: 13.65 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

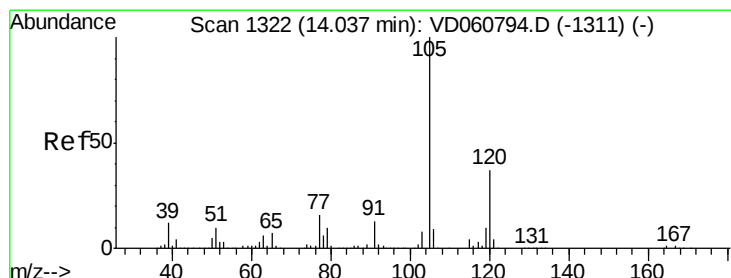
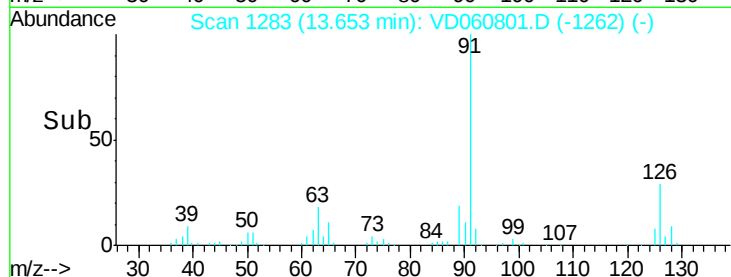
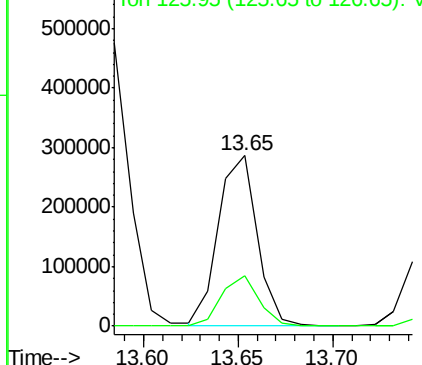
Tot Ion: 91 Resp: 405890
Ion Ratio Lower Upper
91 100
126 29.4 14.7 44.1

Manual Integrations
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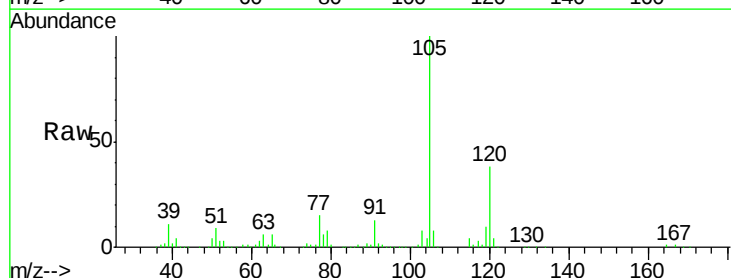


Abundance Ion 91.00 (90.70 to 91.70): VD060794.D (-1279) (-)
Ion 125.95 (125.65 to 126.65): VD060794.D (-1279) (-)

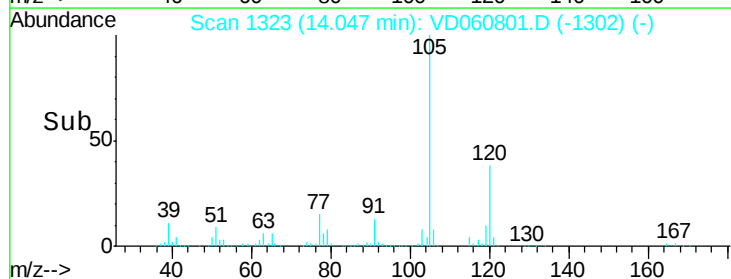
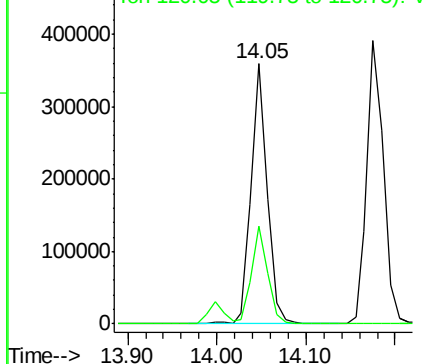


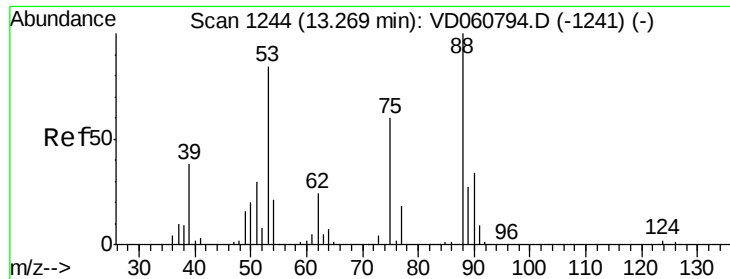
#80
1,3,5-Trimethylbenzene
Concen: 21.516 ug/l
RT: 14.05 min Scan# 1323
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion: 105 Resp: 446696
Ion Ratio Lower Upper
105 100
120 37.6 18.4 55.2



Abundance Ion 105.05 (104.75 to 105.75): VD060794.D (-1311) (-)
Ion 120.05 (119.75 to 120.75): VD060794.D (-1311) (-)





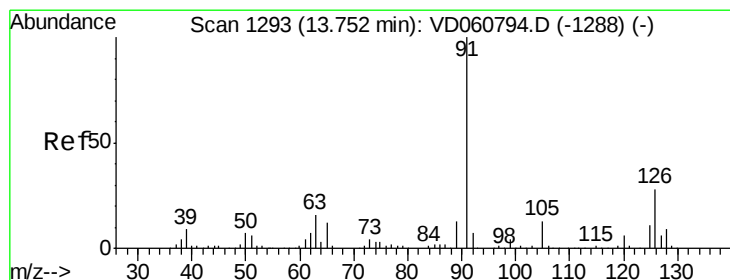
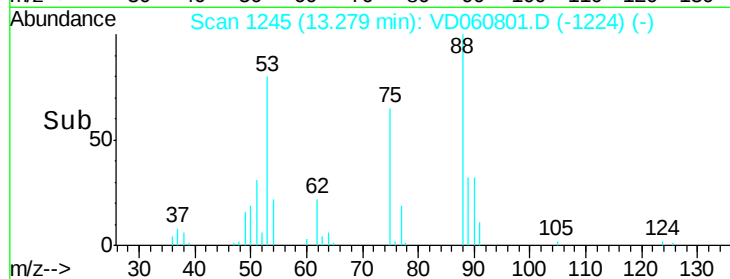
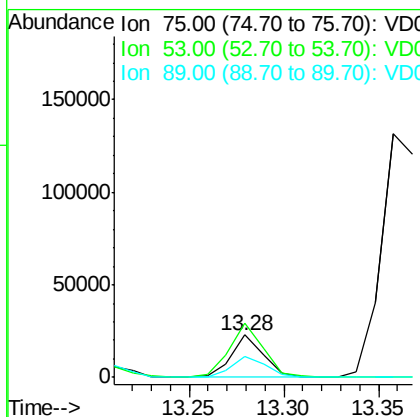
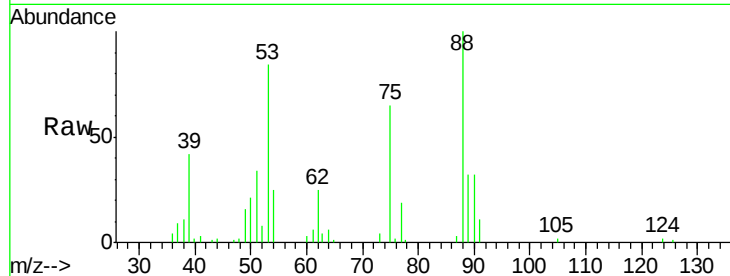
#81
trans-1,4-Dichloro-2-butene
Concen: 18.814 ug/l
RT: 13.28 min Scan# 1245
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	129.1	111.6	167.4
89	49.7	35.9	53.9

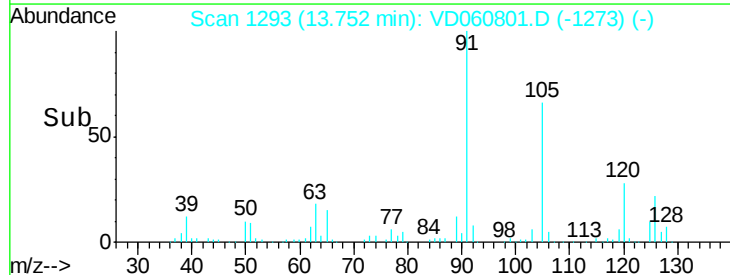
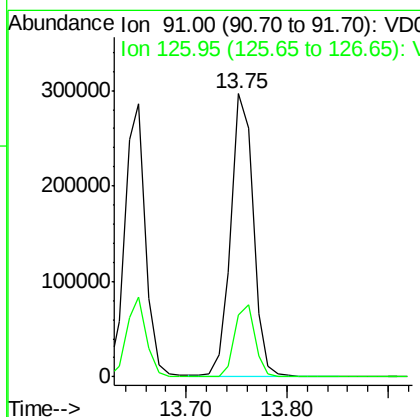
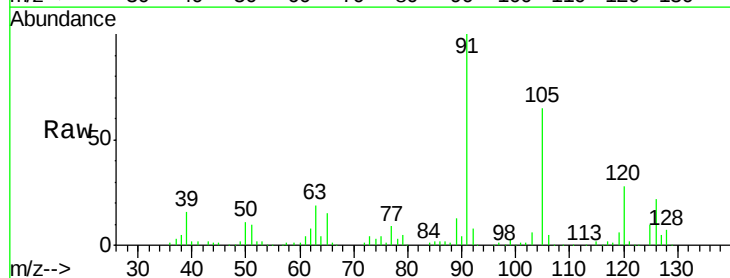
Manual Integrations
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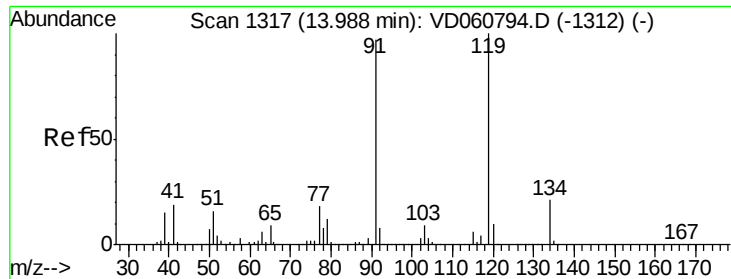
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#82
4-Chlorotoluene
Concen: 22.331 ug/l
RT: 13.75 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
91	100		
126	21.9	13.9	41.7





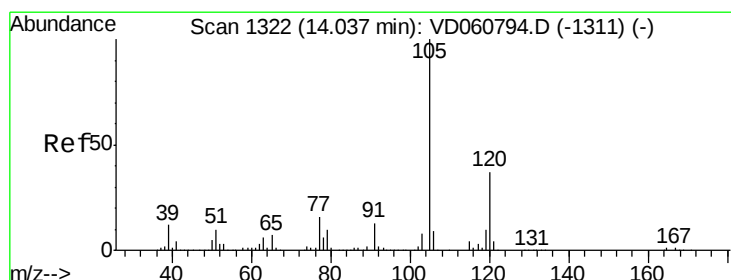
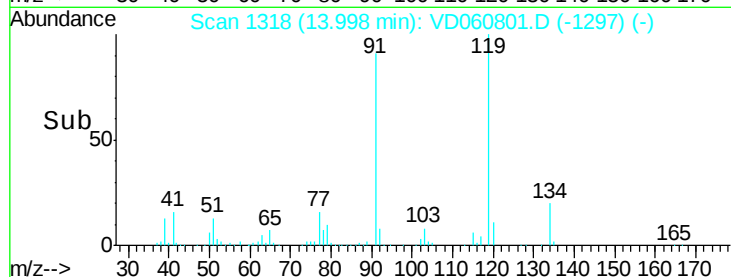
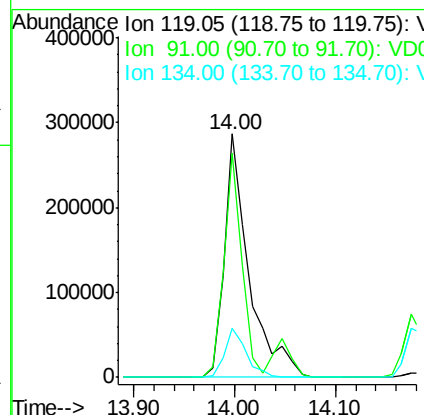
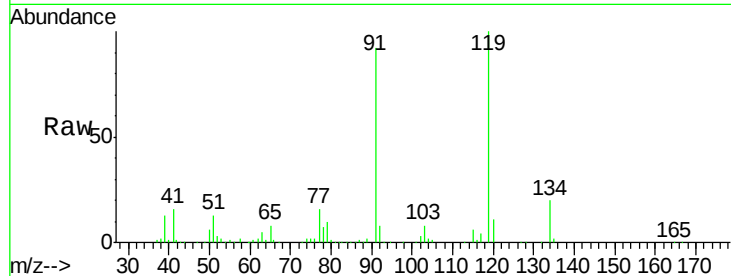
#83
tert-Butylbenzene
Concen: 22.548 ug/l
RT: 14.00 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	489765		
91	92.1	48.5	145.5	
134	20.3	10.3	30.8	

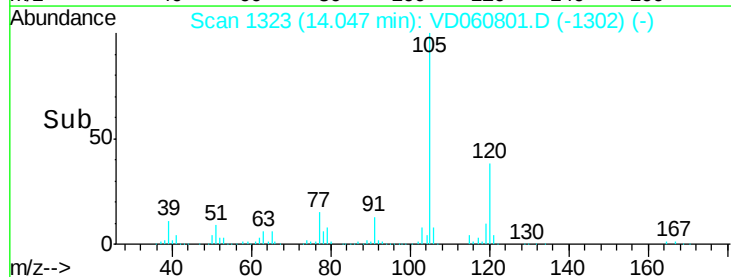
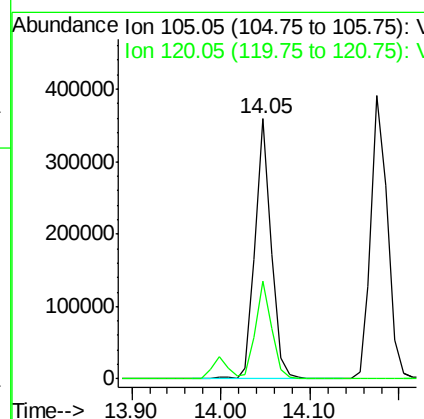
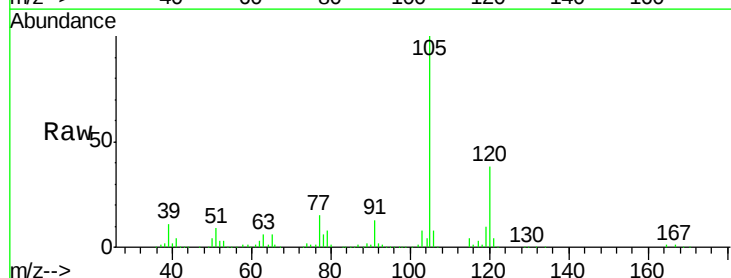
Manual Integrations
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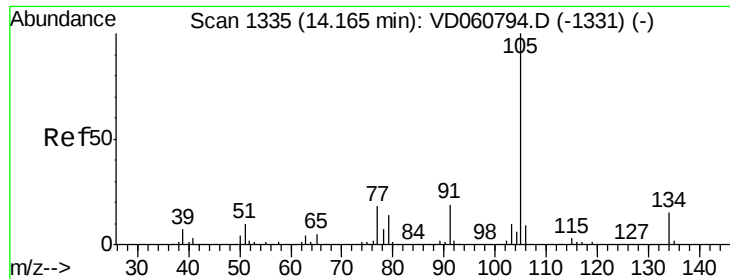
MMDadoda
2/1/2019 3:55:37 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.516 ug/l
RT: 14.05 min Scan# 1323
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	446696		
120	37.6	18.4	55.2	





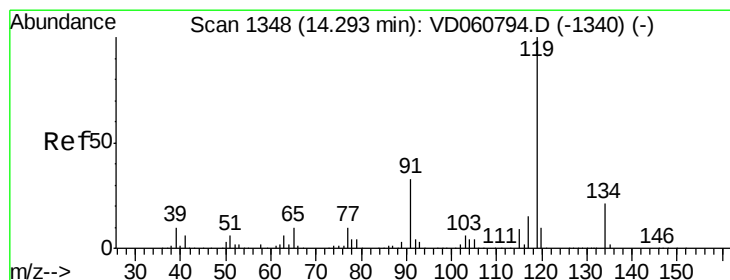
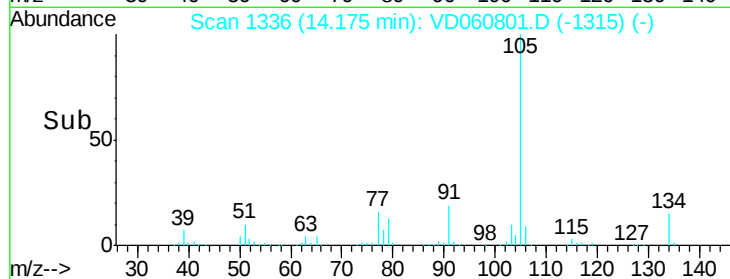
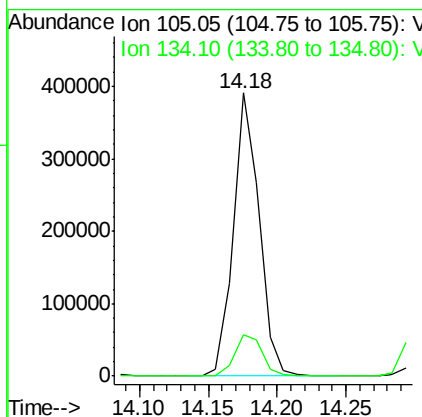
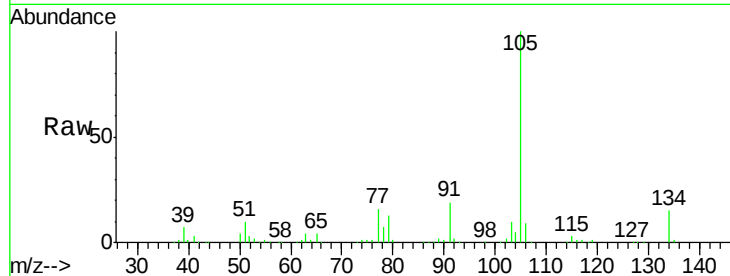
#85
 sec-Butylbenzene
 Concen: 20.594 ug/l
 RT: 14.18 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion:105 Resp: 509197
 Ion Ratio Lower Upper
 105 100
 134 14.9 7.4 22.2

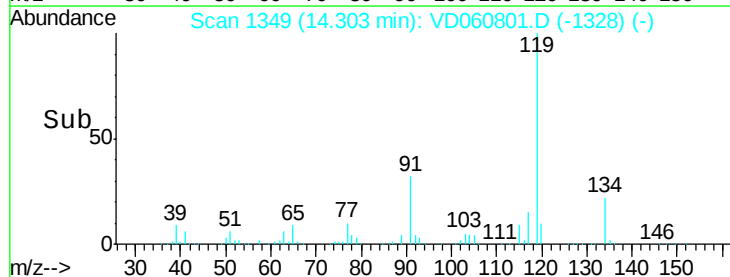
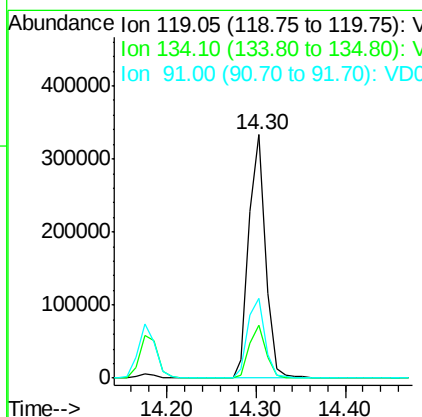
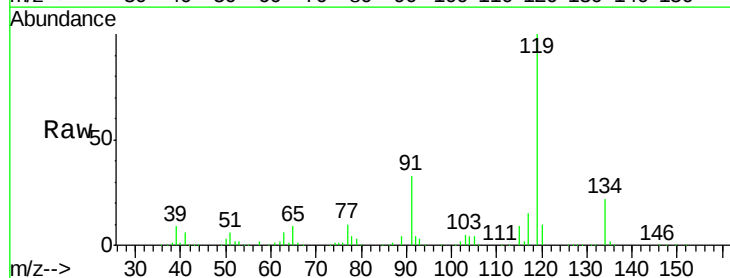
Manual Integrations
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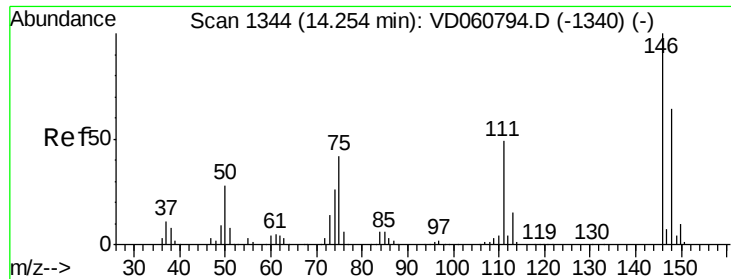
MMDadoda
 2/1/2019 3:55:37 PM



#86
 p-Isopropyltoluene
 Concen: 21.436 ug/l
 RT: 14.30 min Scan# 1349
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion:119 Resp: 430304
 Ion Ratio Lower Upper
 119 100
 134 21.9 10.8 32.3
 91 32.6 16.7 50.0





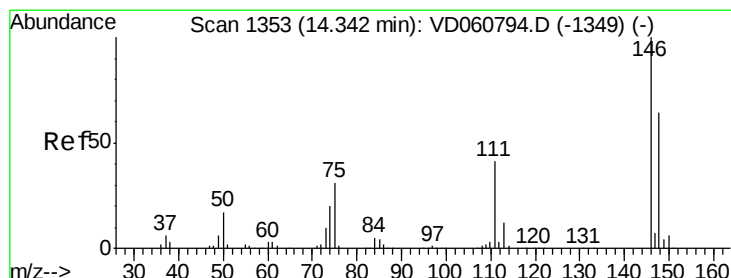
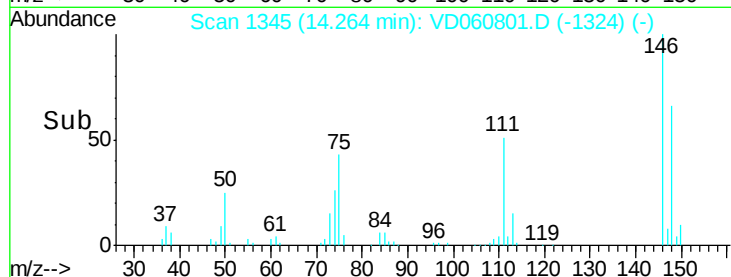
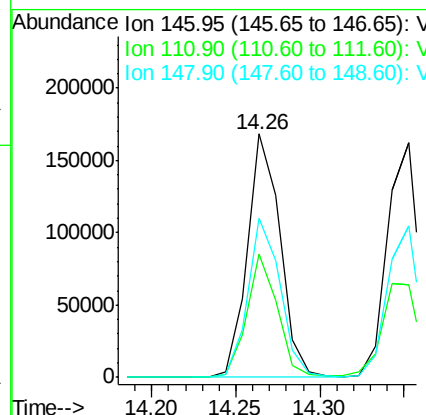
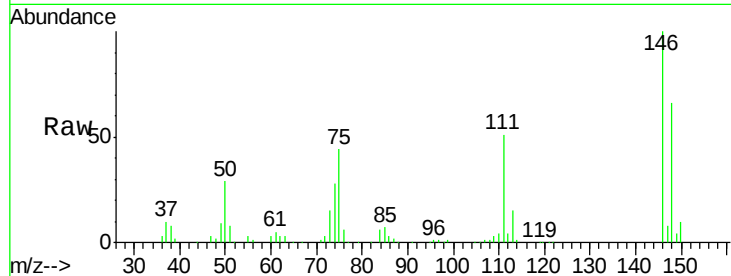
#87
 1,3-Dichlorobenzene
 Concen: 20.431 ug/l
 RT: 14.26 min Scan# 1345
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	24.3	73.0
148	65.6	32.1	96.5

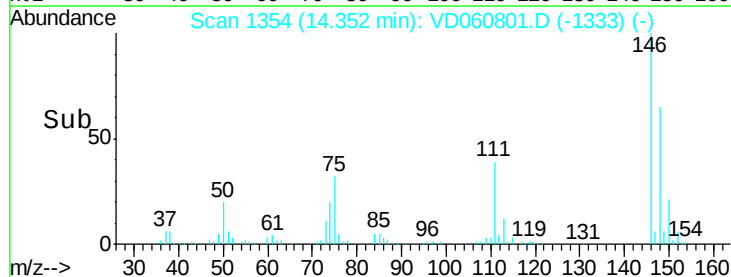
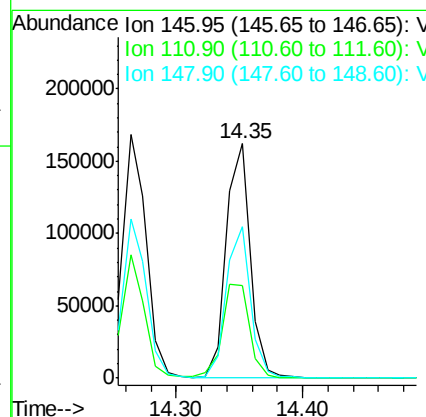
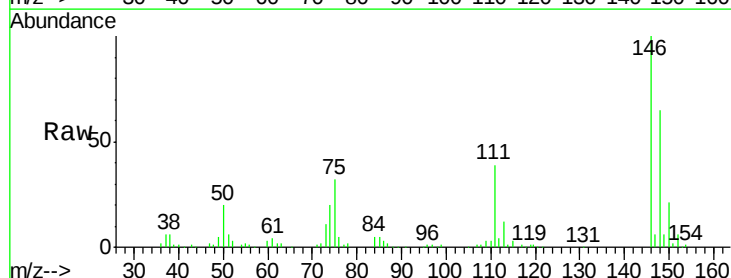
Manual Integrations
 APPROVED

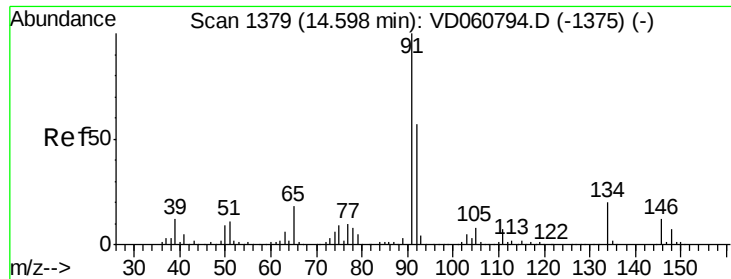
MMDadoda
 2/1/2019 3:55:37 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.009 ug/l
 RT: 14.35 min Scan# 1354
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.6	61.8
148	64.5	31.9	95.7





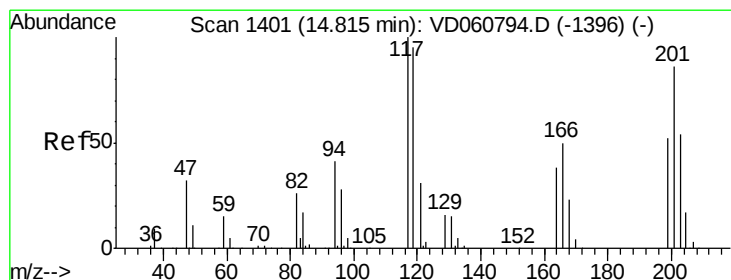
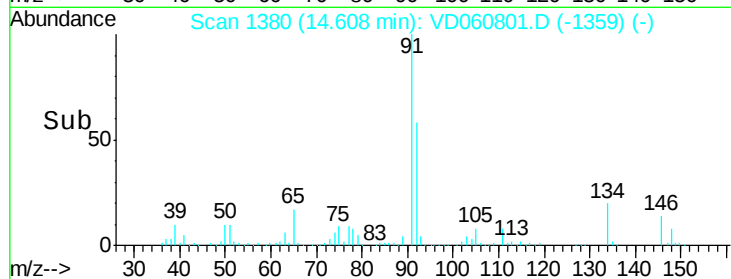
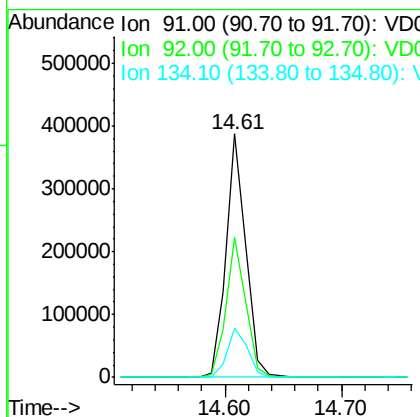
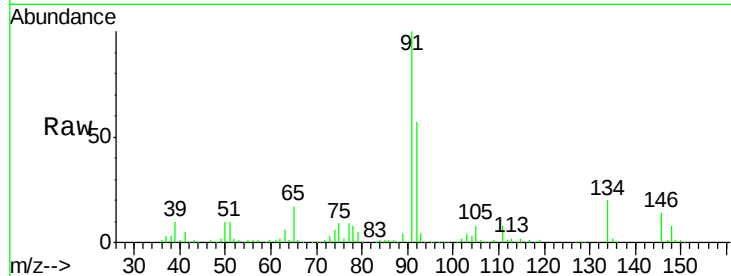
#89
n-Butylbenzene
Concen: 21.765 ug/l
RT: 14.61 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Instrument :
MSVOA_D
ClientSampleId :
VD0130SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.4	28.5	85.5
134	20.0	10.0	29.8

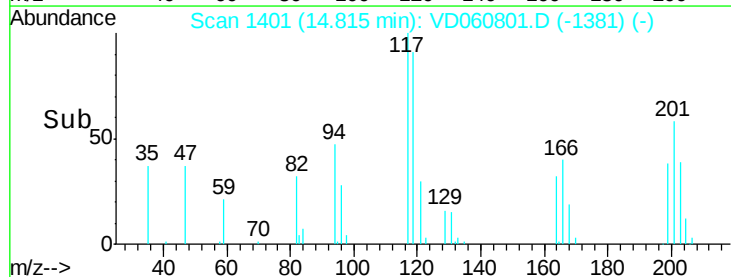
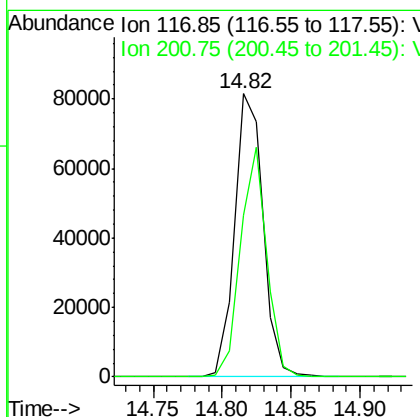
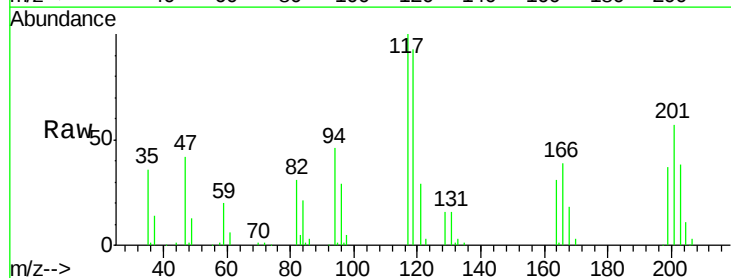
Manual Integrations
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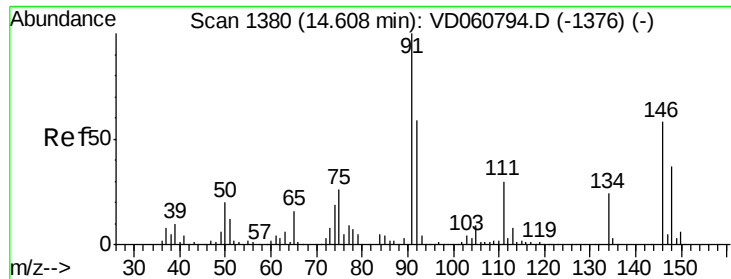
MMDadoda
2/1/2019 3:55:37 PM



#90
Hexachloroethane
Concen: 19.614 ug/l
RT: 14.82 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VD060801.D
Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	57.1	43.0	128.8





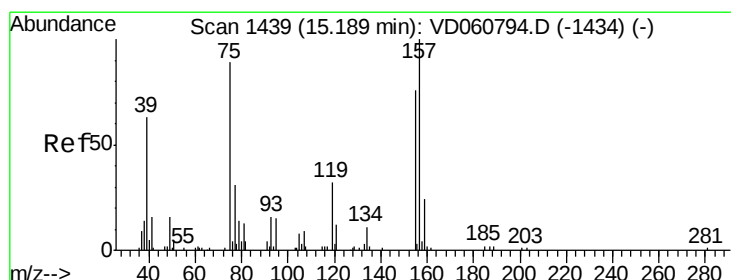
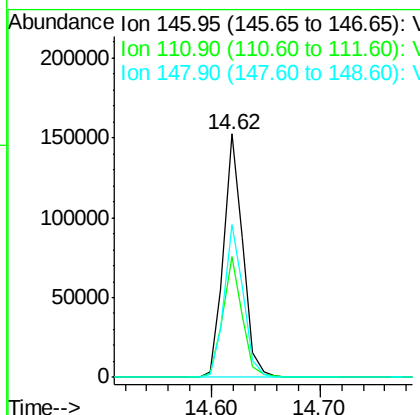
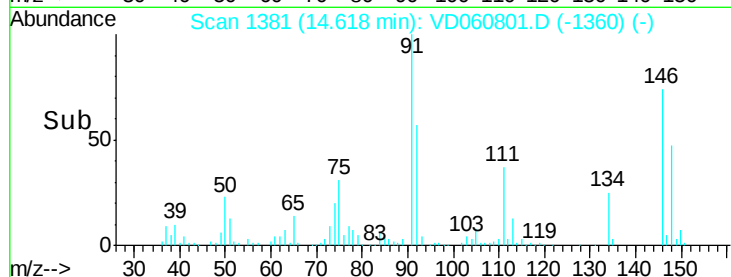
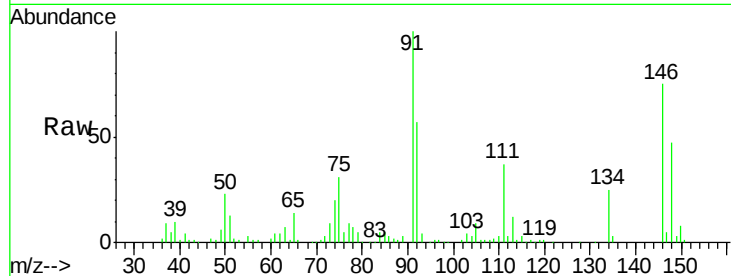
#91
 1,2-Dichlorobenzene
 Concen: 20.514 ug/l
 RT: 14.62 min Scan# 1381
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.6	25.6	76.8
148	62.5	31.4	94.3

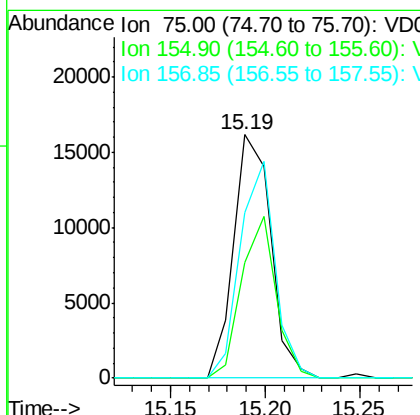
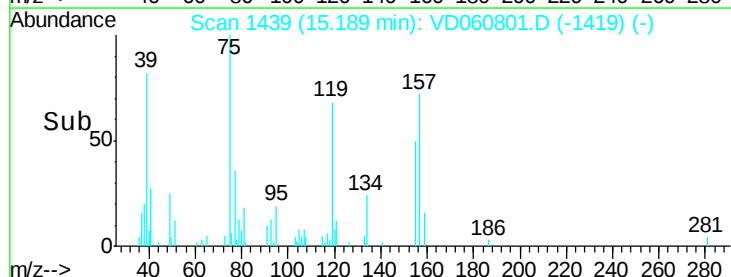
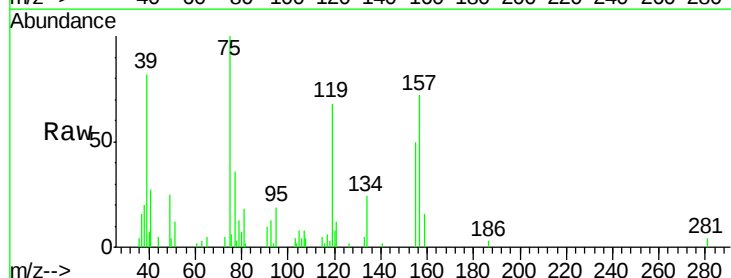
Manual Integrations
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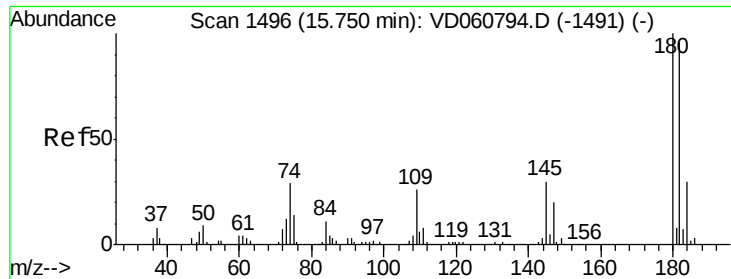
MMDadoda
 2/1/2019 3:55:37 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.076 ug/l
 RT: 15.19 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	47.5	43.0	129.0
157	67.8	56.3	168.9





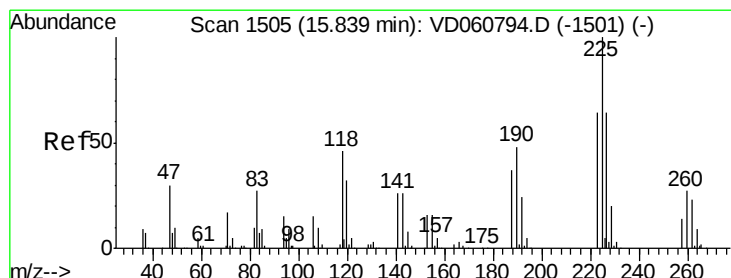
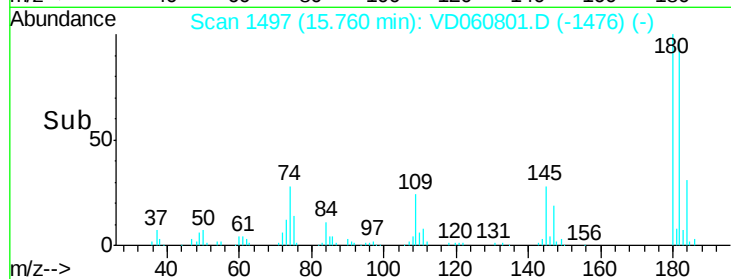
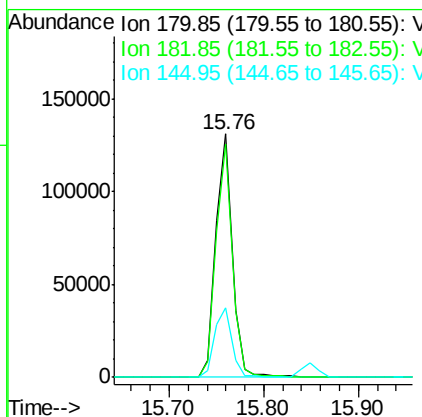
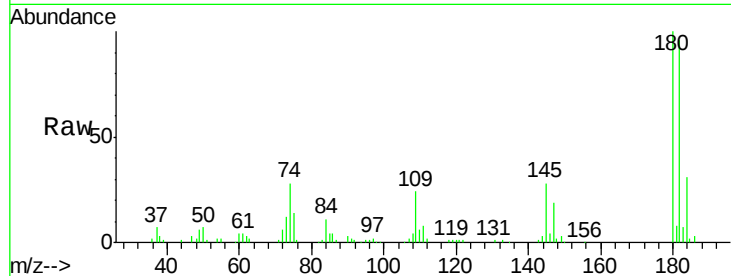
#93
 1,2,4-Trichlorobenzene
 Concen: 20.149 ug/l
 RT: 15.76 min Scan# 1497
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0130SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	160571		
182	96.1	47.9	143.7	
145	28.4	15.0	45.1	

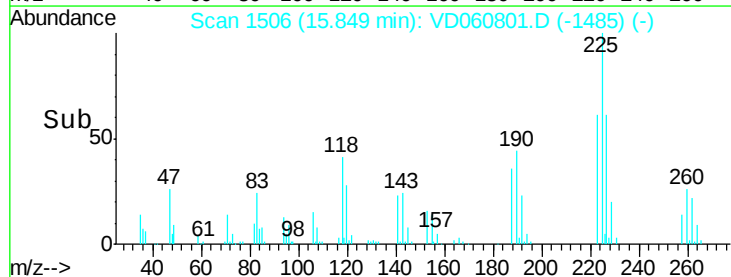
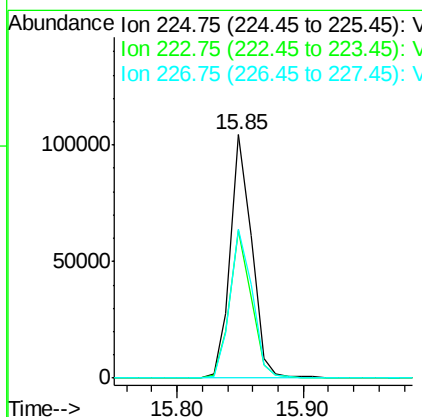
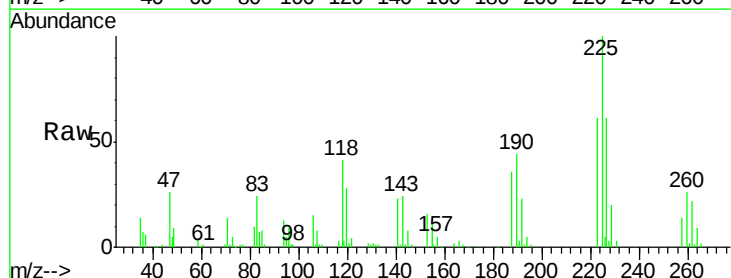
Manual Integrations
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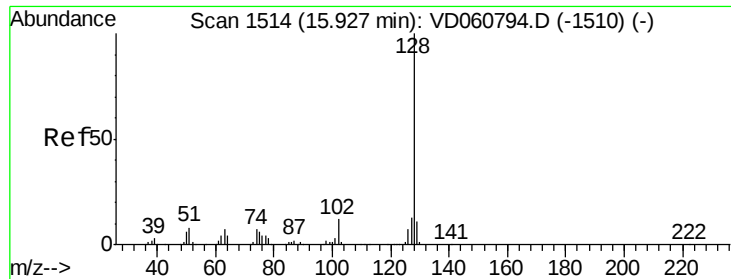
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 2/1/2019 3:55:37 PM



#94
 Hexachlorobutadiene
 Concen: 20.575 ug/l
 RT: 15.85 min Scan# 1506
 Delta R.T. 0.01 min
 Lab File: VD060801.D
 Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	123024		
223	60.7	31.8	95.4	
227	61.3	31.9	95.5	





#95

Naphthalene

Concen: 19.025 ug/l

RT: 15.94 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Instrument :

MSVOA_D

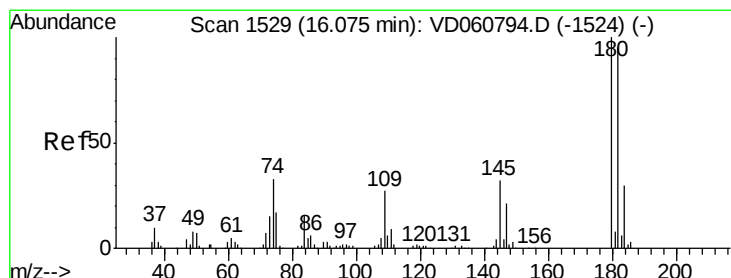
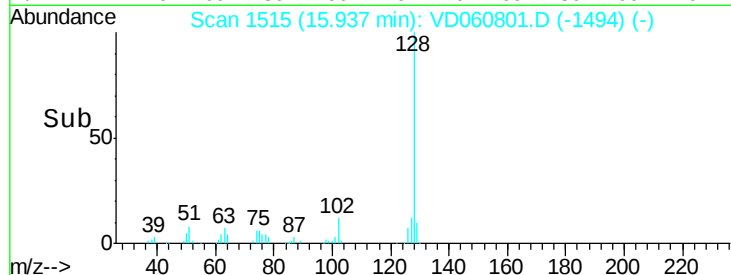
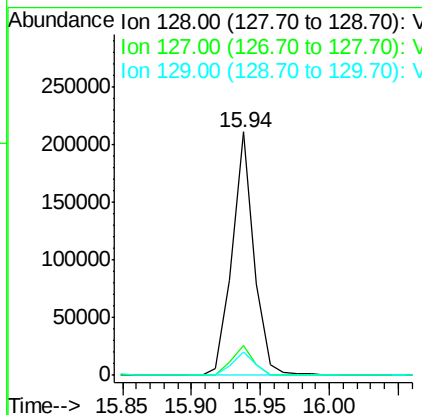
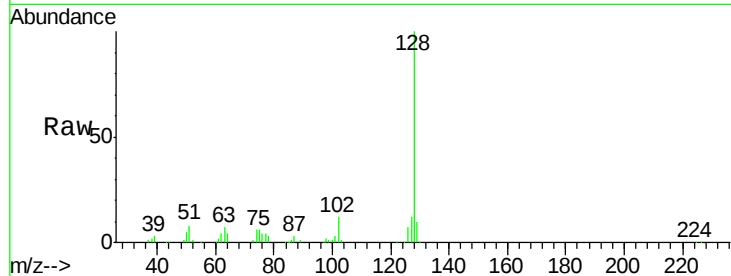
ClientSampleId :

VD0130SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.4	15.6
129	9.9	8.7	13.1

Manual Integrations
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2/1/2019 3:55:37 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.190 ug/l

RT: 16.08 min Scan# 1530

Delta R.T. 0.01 min

Lab File: VD060801.D

Acq: 30 Jan 2019 13:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.4	142.3
145	32.4	15.8	47.4

