

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD032719\
 Data File : VD061360.D
 Acq On : 27 Mar 2019 18:24
 Operator : VA/AP
 Sample : K2047-05MSD
 Misc : 9.52g/5ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MSD

Manual Integrations
 APPROVED

MMDadoda
 3/30/2019 12:16:33 AM

Quant Time: Mar 28 09:32:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	488631	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	900304	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	730038	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	327811	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.43	65	235792	56.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.98%	
35) Dibromofluoromethane	6.90	113	373514	54.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.58%	
50) Toluene-d8	10.38	98	810420	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
62) 4-Bromofluorobenzene	13.53	95	325275	51.40	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	253745	48.625	ug/l	99
3) Chloromethane	1.76	50	200500	47.111	ug/l	94
4) Vinyl Chloride	1.85	62	213701	54.688	ug/l	99
5) Bromomethane	2.14	94	43772	56.489	ug/l	85
6) Chloroethane	2.26	64	66962	58.435	ug/l	98
7) Trichlorofluoromethane	2.53	101	252125	44.371	ug/l	98
8) Diethyl Ether	2.86	74	114470	62.569	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.14	101	292884	47.944	ug/l	96
10) Methyl Iodide	3.29	142	441931	47.753	ug/l	99
11) Tert butyl alcohol	4.04	59	94083	361.929	ug/l	98
12) 1,1-Dichloroethene	3.12	96	258607	49.308	ug/l	93
13) Acrolein	3.02	56	58118	297.822	ug/l	98
14) Allyl chloride	3.60	41	397677	54.362	ug/l	96
15) Acrylonitrile	4.17	53	324134	359.258	ug/l	96
16) Acetone	3.20	43	497047	463.224	ug/l	99
17) Carbon Disulfide	3.36	76	859956	50.465	ug/l	100
18) Methyl Acetate	3.62	43	159911	70.880	ug/l	96
19) Methyl tert-butyl Ether	4.21	73	579519	63.832	ug/l	99
20) Methylene Chloride	3.80	84	354085	59.262	ug/l	94
21) trans-1,2-Dichloroethene	4.20	96	292523	51.660	ug/l	98
22) Diisopropyl ether	5.09	45	901127	58.212	ug/l	98
23) Vinyl Acetate	5.02	43	2565441	305.091	ug/l	98
24) 1,1-Dichloroethane	4.95	63	480282	52.792	ug/l	99
25) 2-Butanone	6.04	43	469643	347.946	ug/l	100
26) 2,2-Dichloropropane	5.99	77	353751	48.914	ug/l	97
27) cis-1,2-Dichloroethene	6.01	96	377122	60.787	ug/l	98
28) Bromochloromethane	6.41	49	214416	58.386	ug/l	94
29) Tetrahydrofuran	6.43	42	233311	356.624	ug/l	99
30) Chloroform	6.63	83	530797	56.466	ug/l	99
31) Cyclohexane	6.93	56	373217	51.913	ug/l	99
32) 1,1,1-Trichloroethane	6.84	97	430383	51.896	ug/l	98
36) 1,1-Dichloropropene	7.12	75	354596	45.128	ug/l	99
37) Ethyl Acetate	6.15	43	231983	69.032	ug/l	98
38) Carbon Tetrachloride	7.08	117	400798m	44.389	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.84	83	341916	41.780	ug/l	97
40) Benzene	7.43	78	933389	47.331	ug/l	98
41) Methacrylonitrile	6.42	41	251983	64.130	ug/l	98
42) 1,2-Dichloroethane	7.55	62	350264	59.378	ug/l	100
43) Isopropyl Acetate	9.21	43	302342	61.835	ug/l #	97
44) Trichloroethene	8.51	130	346251	47.180	ug/l	98
45) 1,2-Dichloropropane	8.92	63	264347	52.864	ug/l	100
46) Dibromomethane	9.03	93	200709	59.633	ug/l	97
47) Bromodichloromethane	9.35	83	416344	55.114	ug/l	98
48) Methyl methacrylate	9.09	41	162407	60.185	ug/l	99
49) 1,4-Dioxane	9.04	88	41671	1400.062	ug/l	97
51) 4-Methyl-2-Pentanone	10.27	43	907683	305.131	ug/l	99
52) Toluene	10.48	92	639781	53.178	ug/l	99
53) t-1,3-Dichloropropene	10.88	75	388820	56.651	ug/l	99
54) cis-1,3-Dichloropropene	10.01	75	442315	52.926	ug/l	97
55) 1,1,2-Trichloroethane	11.16	97	239530	56.929	ug/l	97
56) Ethyl methacrylate	11.01	69	267405	59.161	ug/l	97
57) 1,3-Dichloropropane	11.39	76	381515	61.691	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.83	63	685725	311.522	ug/l	99
59) 2-Hexanone	11.50	43	710326	329.575	ug/l	99
60) Dibromochloromethane	11.66	129	368541	56.818	ug/l	100
61) 1,2-Dibromoethane	11.78	107	280757	57.626	ug/l	98
64) Tetrachloroethene	11.23	164	262118	45.749	ug/l	99
65) Chlorobenzene	12.38	112	916297	61.416	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.49	131	319336	55.280	ug/l	98
67) Ethyl Benzene	12.50	91	1113904	48.914	ug/l	98
68) m/p-Xylenes	12.65	106	838687	97.223	ug/l	97
69) o-Xylene	13.03	106	393629	47.022	ug/l	98
70) Styrene	13.05	104	717941	49.199	ug/l	95
71) Bromoform	13.22	173	217120	59.292	ug/l	100
73) Isopropylbenzene	13.38	105	1043492	45.736	ug/l	99
74) N-amyl acetate	13.25	43	349918	55.056	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.68	83	283396	58.883	ug/l	99
76) 1,2,3-Trichloropropane	13.72	75	285796	60.354	ug/l	99
77) Bromobenzene	13.65	156	332762	49.198	ug/l	90
78) n-propylbenzene	13.76	91	1291769	46.266	ug/l	100
79) 2-Chlorotoluene	13.83	91	747578	49.312	ug/l	96
80) 1,3,5-Trimethylbenzene	13.92	105	888656	50.201	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.45	75	86548	59.945	ug/l	98
82) 4-Chlorotoluene	13.93	91	845447	51.288	ug/l	89
83) tert-Butylbenzene	14.17	119	953171	43.086	ug/l	97
84) 1,2,4-Trimethylbenzene	14.22	105	892303	46.560	ug/l	99
85) sec-Butylbenzene	14.35	105	1024155	43.578	ug/l	99
86) p-Isopropyltoluene	14.48	119	838580	42.197	ug/l	99
87) 1,3-Dichlorobenzene	14.44	146	564113	49.251	ug/l	98
88) 1,4-Dichlorobenzene	14.52	146	586015	52.465	ug/l	95
89) n-Butylbenzene	14.78	91	764966	41.938	ug/l	99
90) Hexachloroethane	14.99	117	245491	43.725	ug/l	77
91) 1,2-Dichlorobenzene	14.79	146	483434	51.457	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.36	75	39120	69.303	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.92	180	259982	60.747	ug/l	95
94) Hexachlorobutadiene	16.02	225	144343	43.161	ug/l	99
95) Naphthalene	16.11	128	453840	69.571	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	145539	77.280	ug/l	96

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

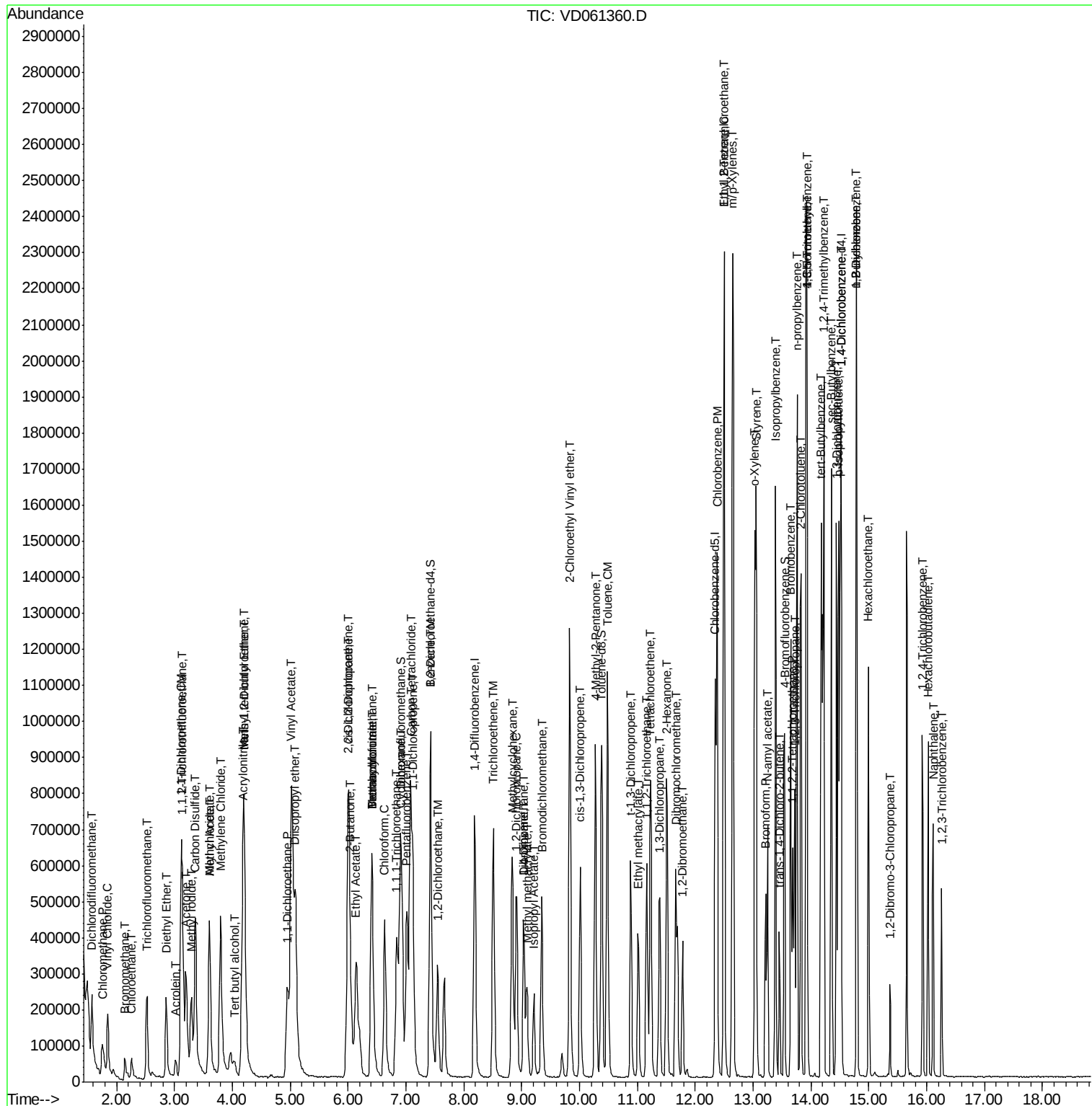
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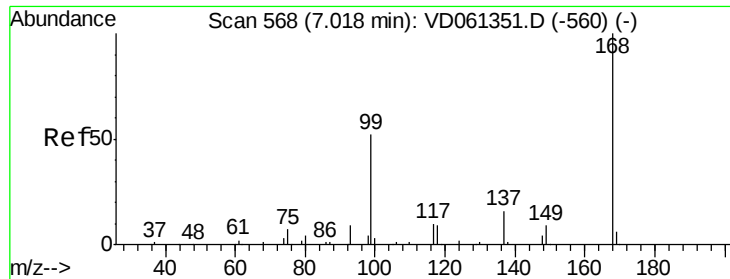
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.00 min

Lab File: VD061360.D

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Instrument :

MSVOA_D

ClientSampleId :

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Tgt Ion: 168 Resp: 488631

Ion Ratio Lower Upper

168 100

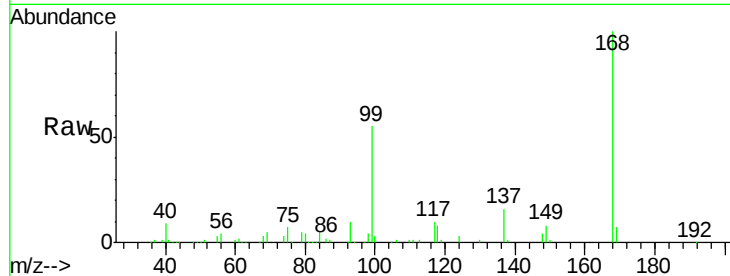
99 54.9 43.1 64.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

150000

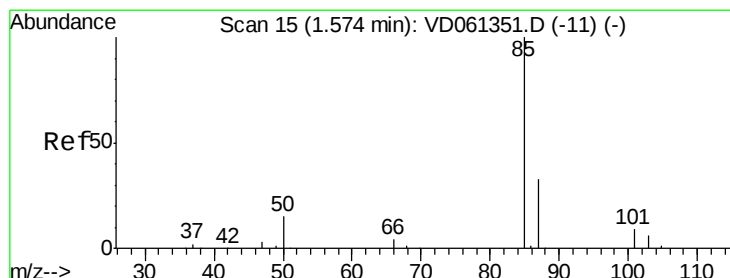
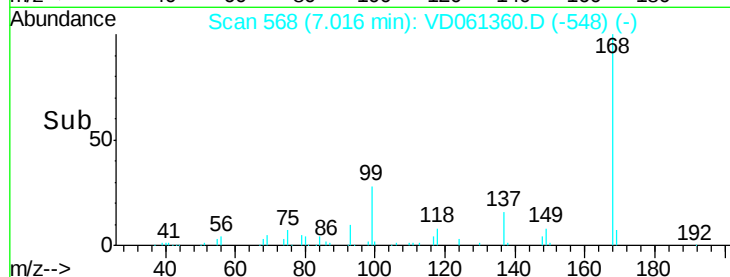
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 48.625 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD061360.D

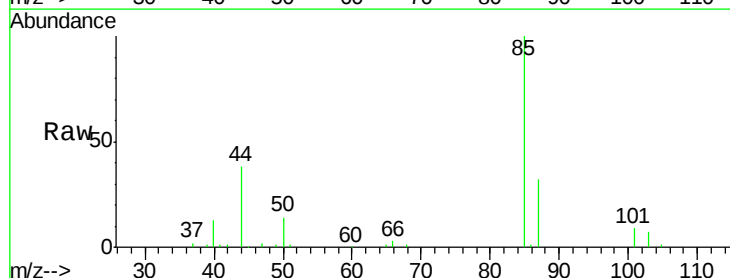
Acq: 27 Mar 2019 18:24

Tgt Ion: 85 Resp: 253745

Ion Ratio Lower Upper

85 100

87 32.4 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

120000

100000

80000

60000

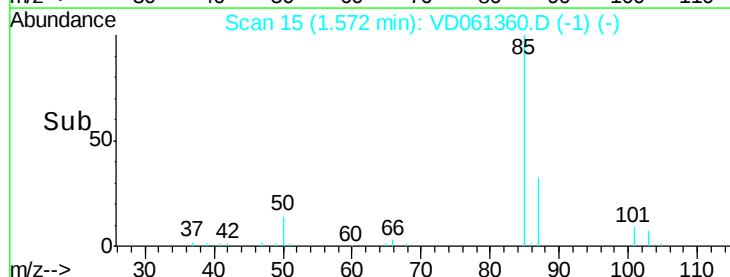
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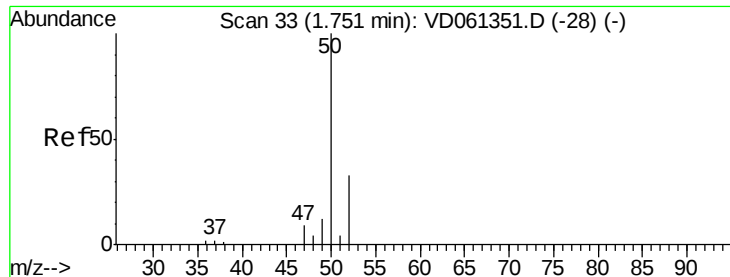
20000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 47.111 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

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Tgt Ion: 50 Resp: 200500

Ion Ratio Lower Upper

50 100

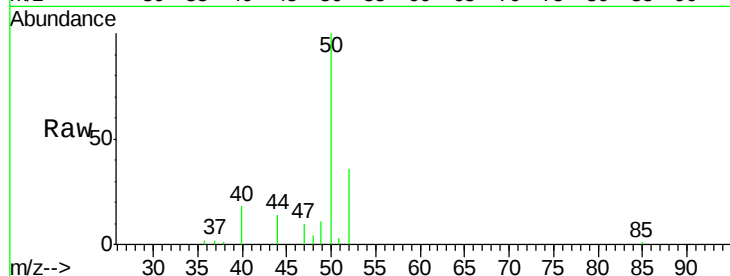
52 35.8 26.1 39.1

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

60000

50000

40000

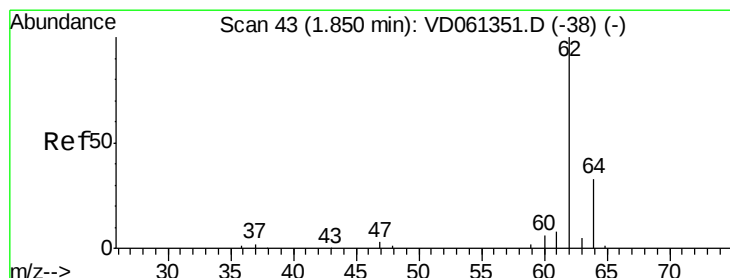
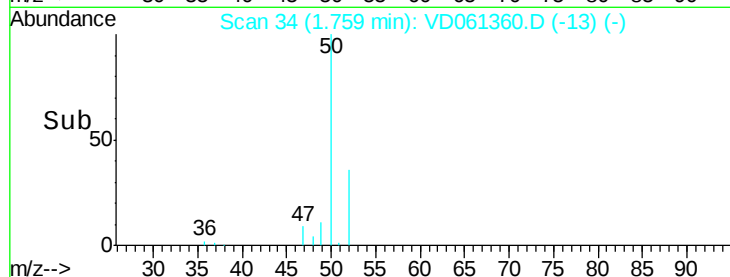
30000

20000

10000

0

Time--> 1.60 1.70 1.80 1.90



#4

Vinyl Chloride

Concen: 54.688 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.00 min

Lab File: VD061360.D

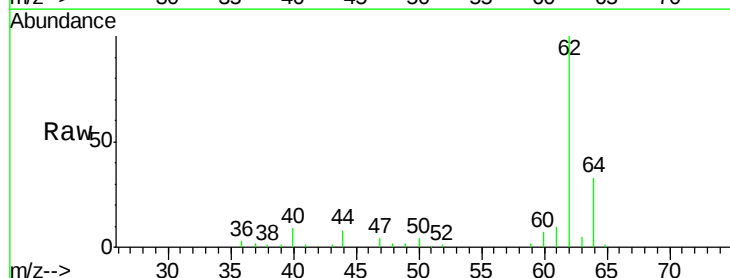
Acq: 27 Mar 2019 18:24

Tgt Ion: 62 Resp: 213701

Ion Ratio Lower Upper

62 100

64 32.8 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.85

100000

80000

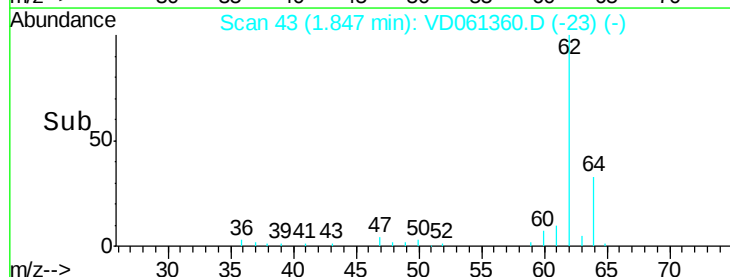
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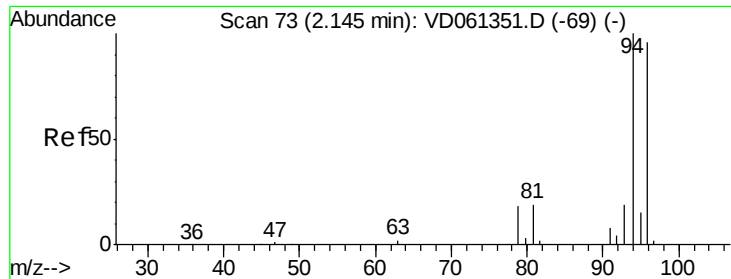
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20000

0

Time--> 1.70 1.80 1.90 2.00





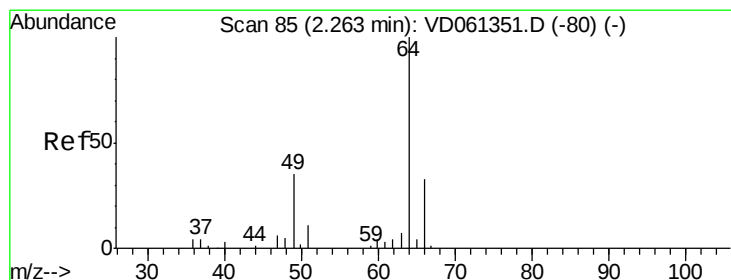
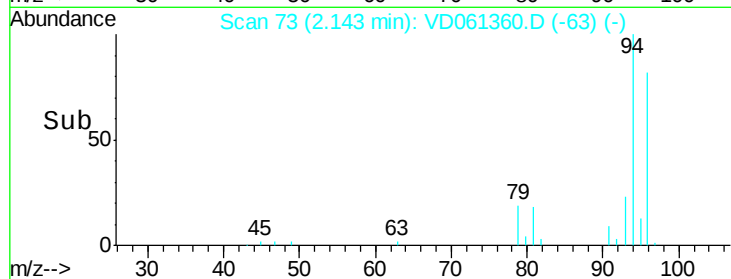
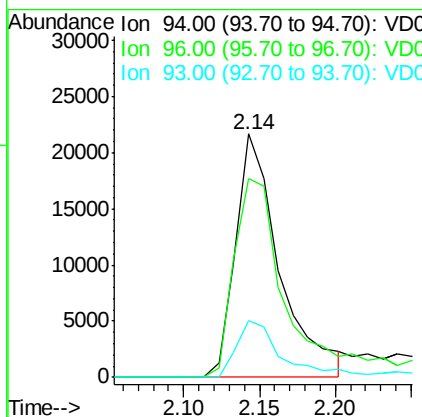
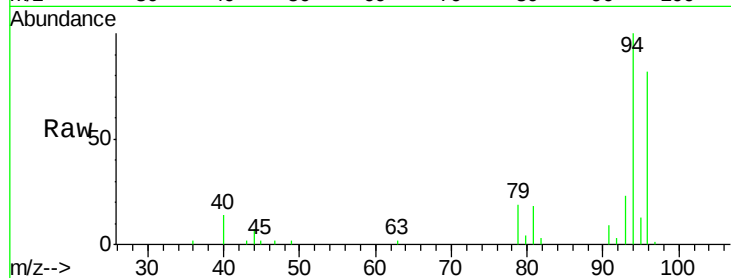
#5
Bromomethane
Concen: 56.489 ug/l
RT: 2.14 min Scan# 73
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

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Tgt Ion: 94 Resp: 43772
Ion Ratio Lower Upper
94 100
96 81.7 78.3 117.5
93 23.3 15.6 23.4

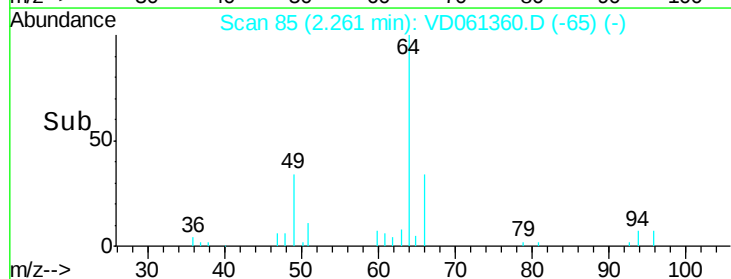
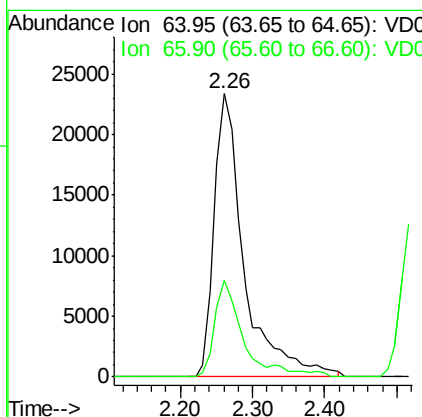
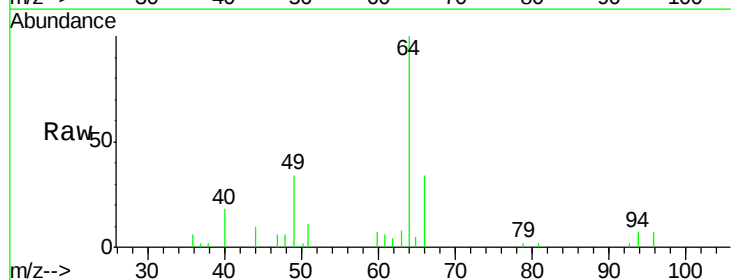
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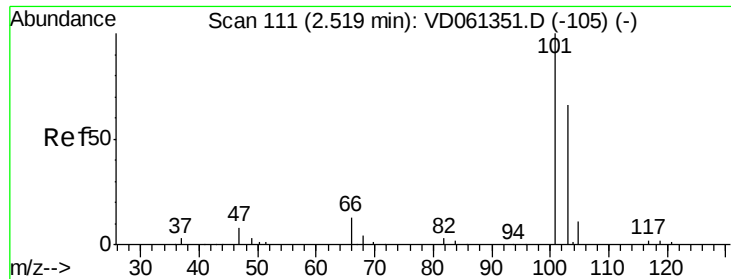
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#6
Chloroethane
Concen: 58.435 ug/l
RT: 2.26 min Scan# 85
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion: 64 Resp: 66962
Ion Ratio Lower Upper
64 100
66 34.0 26.2 39.2





#7

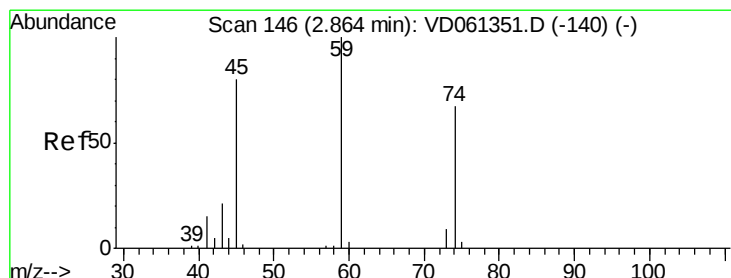
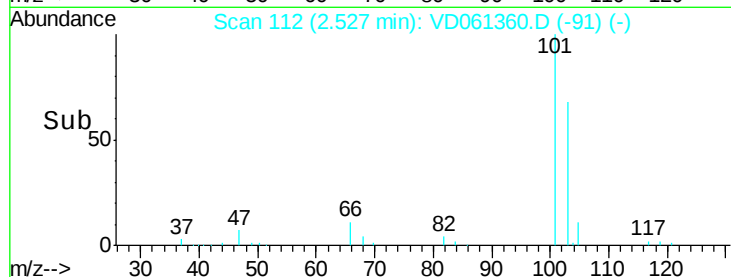
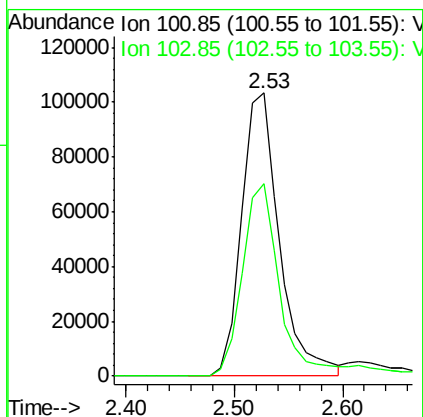
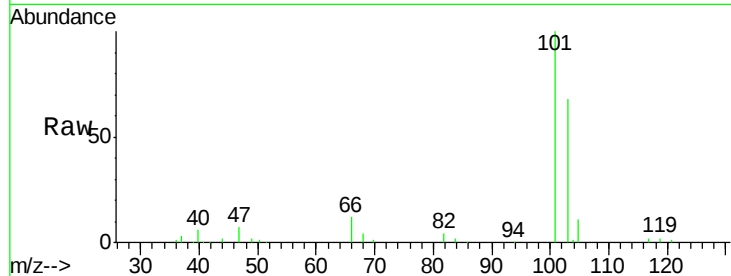
Trichlorofluoromethane
Concen: 44.371 ug/l
RT: 2.53 min Scan# 112
Delta R.T. 0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

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Tgt Ion: 101 Resp: 252125
Ion Ratio Lower Upper
101 100
103 68.1 53.1 79.7

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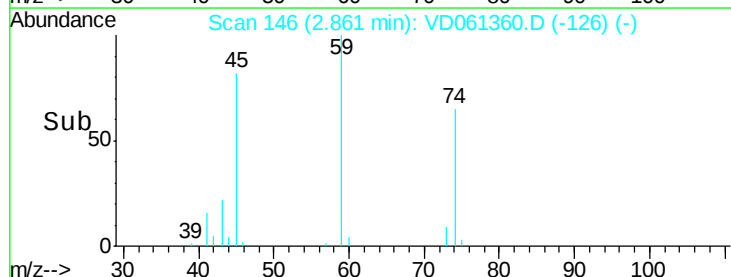
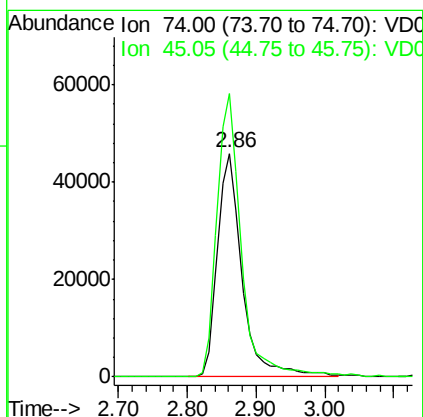
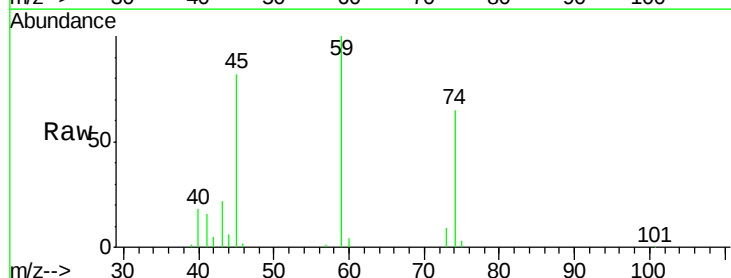
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3/30/2019 12:16:33 AM



#8

Diethyl Ether
Concen: 62.569 ug/l
RT: 2.86 min Scan# 146
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion: 74 Resp: 114470
Ion Ratio Lower Upper
74 100
45 126.5 59.7 179.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.944 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

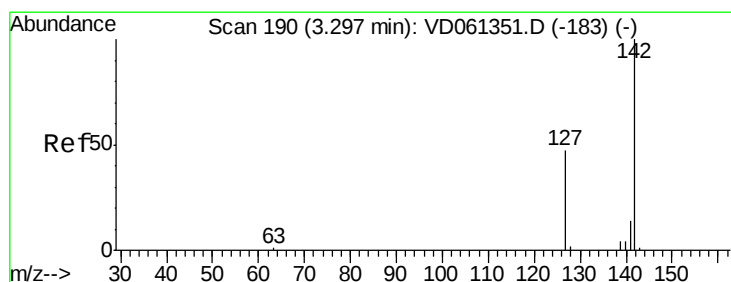
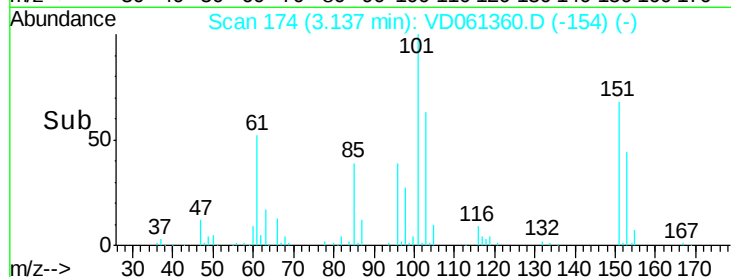
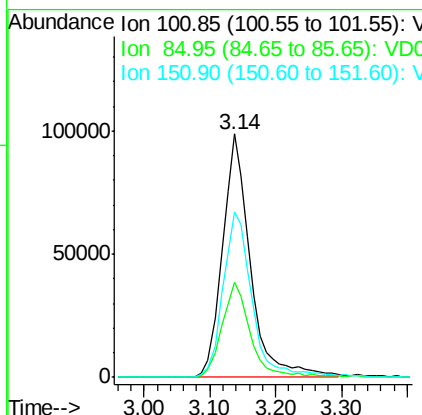
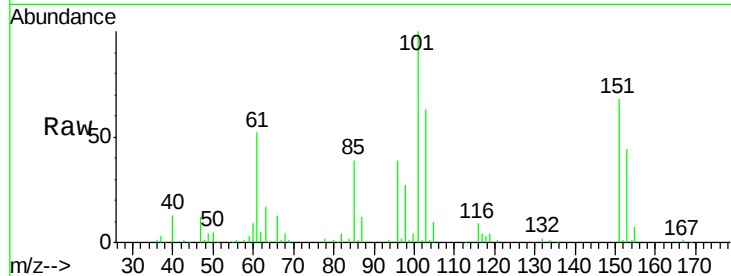
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	101	Resp:	292884
Ion Ratio	Lower	Upper	
101	100		
85	38.9	29.4	44.0
151	68.0	57.0	85.4

Manual Integrations
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#10

Methyl Iodide

Concen: 47.753 ug/l

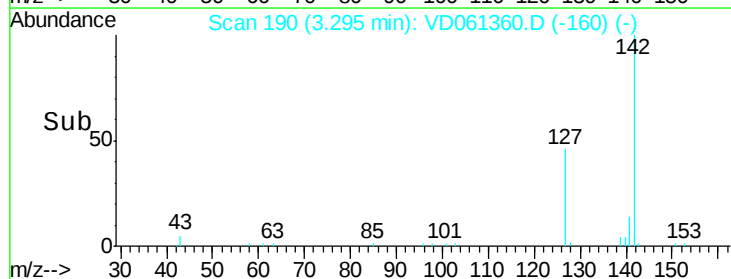
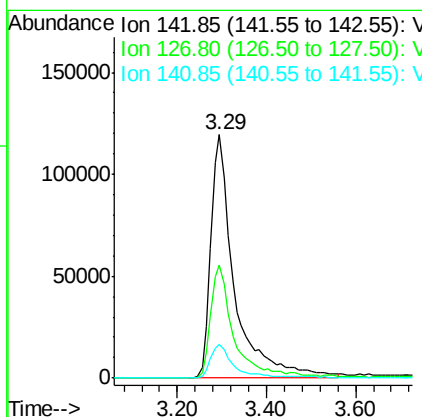
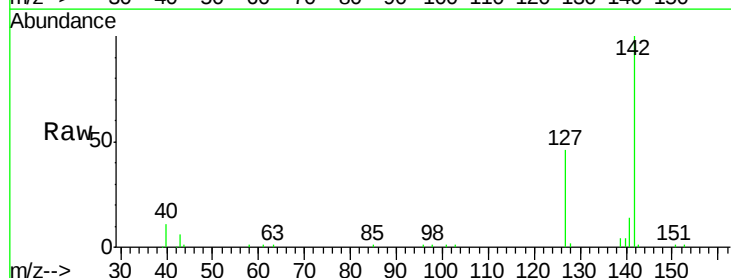
RT: 3.29 min Scan# 190

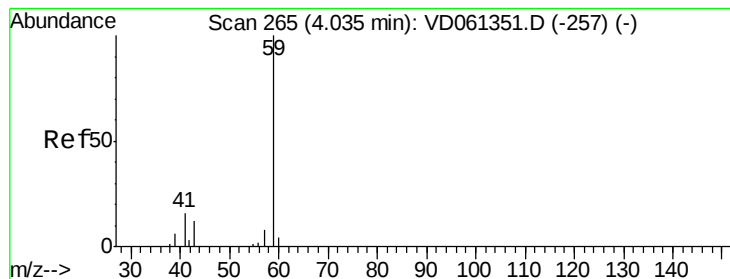
Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	142	Resp:	441931
Ion Ratio	Lower	Upper	
142	100		
127	46.4	37.7	56.5
141	14.1	11.5	17.3





#11

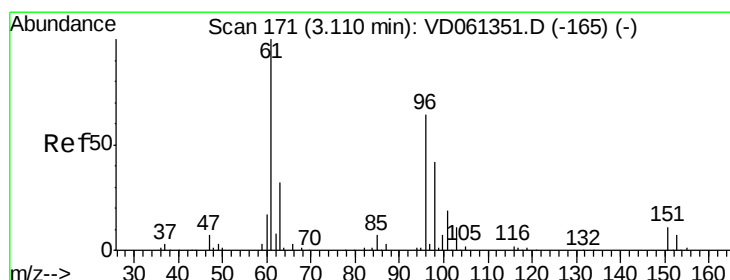
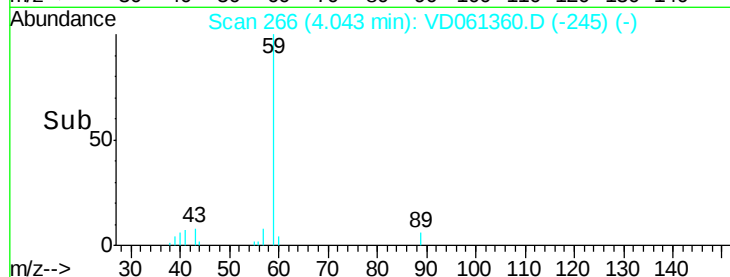
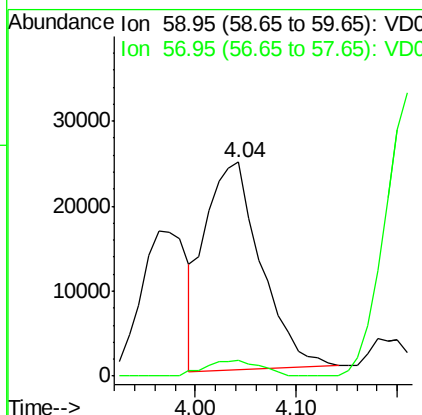
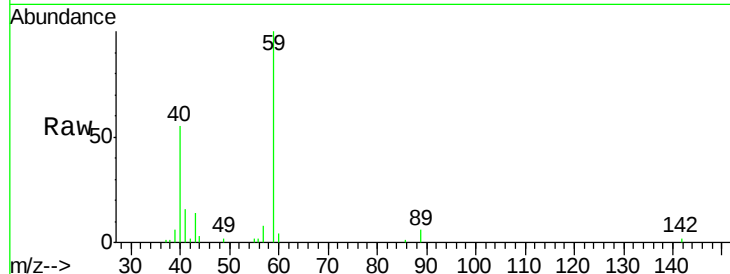
Tert butyl alcohol
Concen: 361.929 ug/l
RT: 4.04 min Scan# 266
Delta R.T. 0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion: 59 Resp: 94083
Ion Ratio Lower Upper
59 100
57 7.6 6.7 10.1

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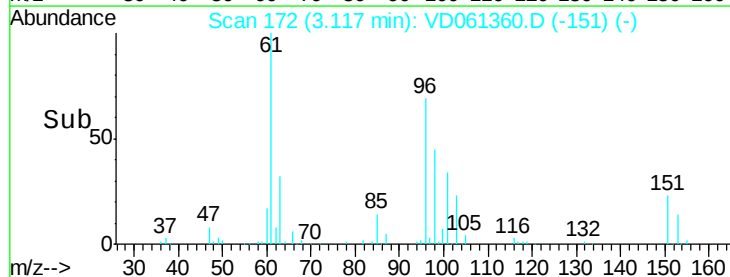
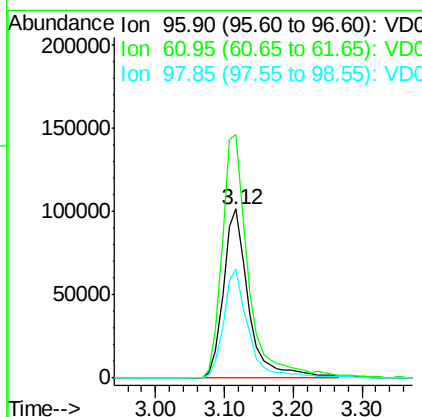
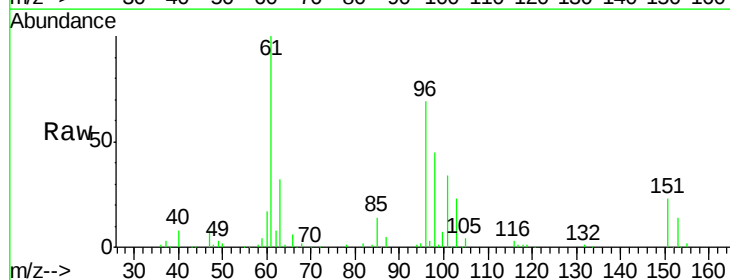
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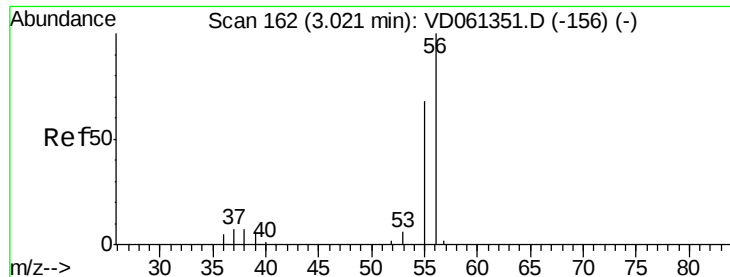


#12

1,1-Dichloroethene
Concen: 49.308 ug/l
RT: 3.12 min Scan# 172
Delta R.T. 0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion: 96 Resp: 258607
Ion Ratio Lower Upper
96 100
61 144.3 124.9 187.3
98 64.5 52.5 78.7





#13

Acrolein

Concen: 297.822 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 56 Resp: 58118

Ion Ratio Lower Upper

56 100

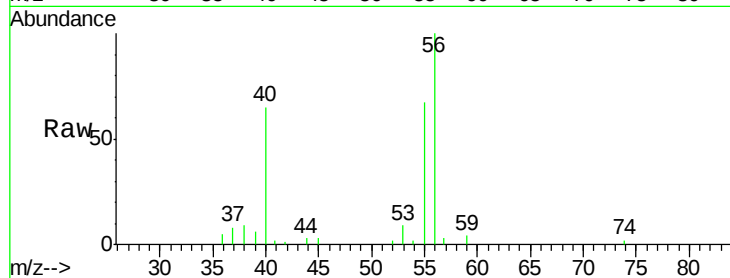
55 66.6 54.6 82.0

Manual Integrations

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

25000

20000

15000

10000

5000

0

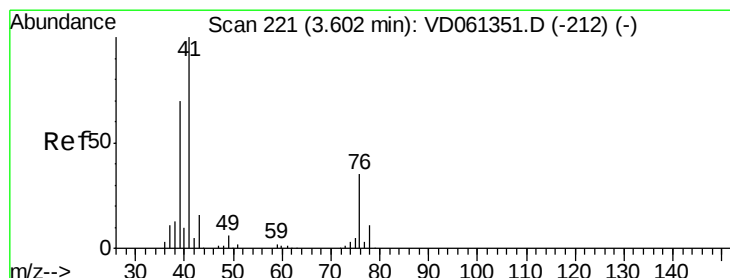
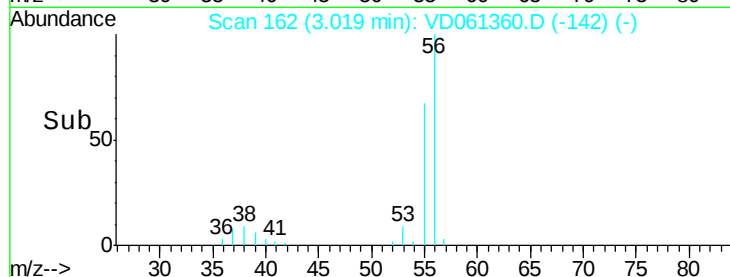
Time-->

2.90

3.00

3.10

3.20



#14

Allyl chloride

Concen: 54.362 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

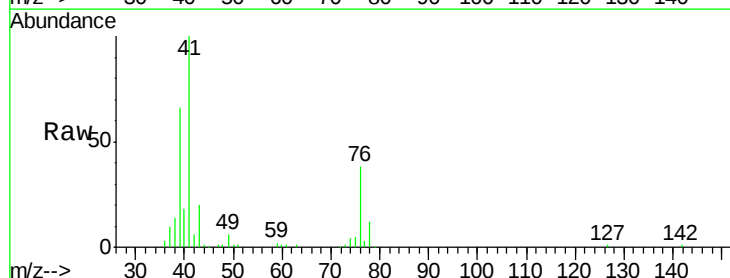
Tgt Ion: 41 Resp: 397677

Ion Ratio Lower Upper

41 100

39 65.7 55.6 83.4

76 37.7 31.0 46.6



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

150000

100000

50000

0

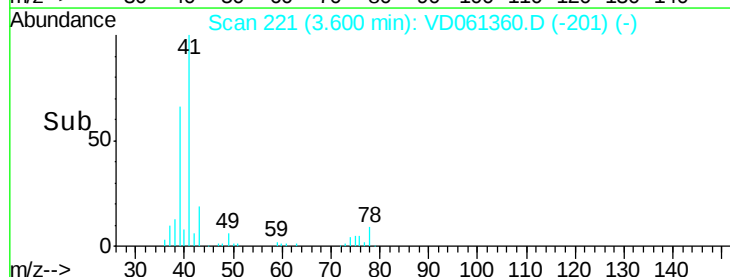
Time-->

3.50

3.60

3.70

3.80





#15

Acrylonitrile

Concen: 359.258 ug/l

RT: 4.17 min Scan# 279

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

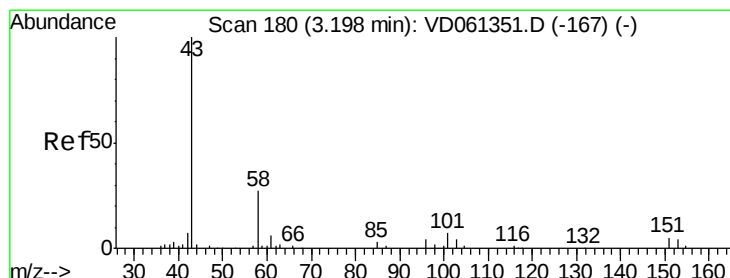
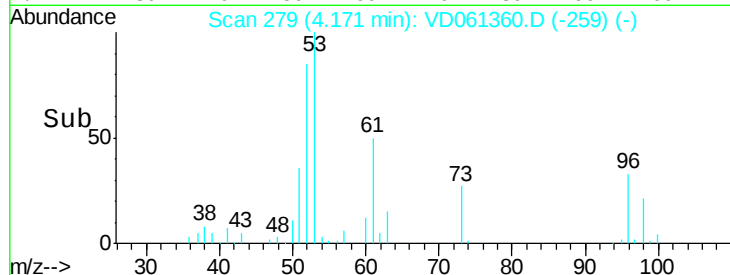
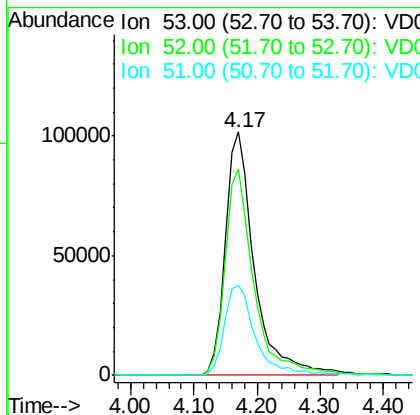
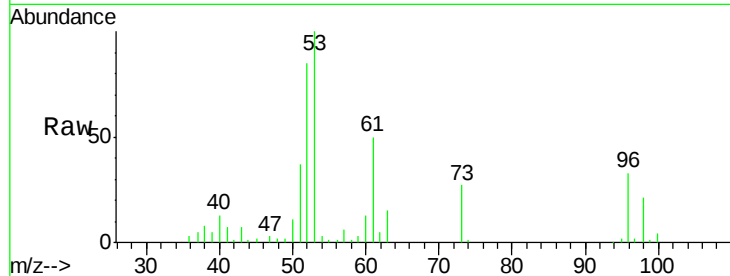
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	53	Resp:	324134
Ion Ratio	Lower	Upper	
53	100		
52	85.0	64.8	97.2
51	36.8	31.4	47.2

Manual Integrations
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#16

Acetone

Concen: 463.224 ug/l

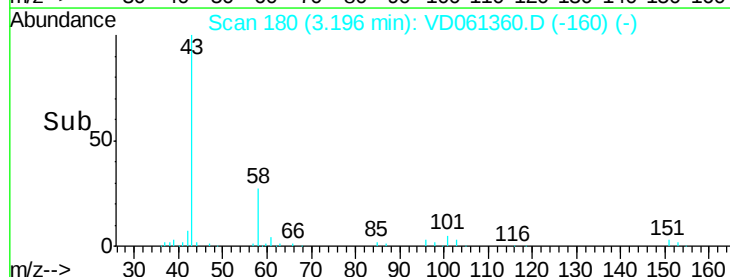
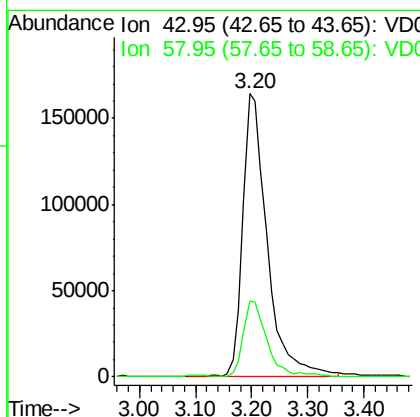
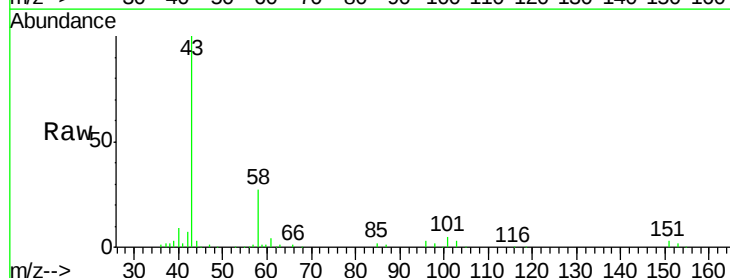
RT: 3.20 min Scan# 180

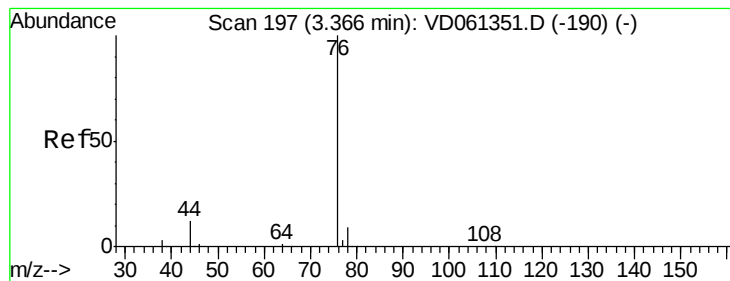
Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	43	Resp:	497047
Ion Ratio	Lower	Upper	
43	100		
58	26.6	21.5	32.3





#17

Carbon Disulfide

Concen: 50.465 ug/l

RT: 3.36 min Scan# 197

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 76 Resp: 859956

Ion Ratio Lower Upper

76 100

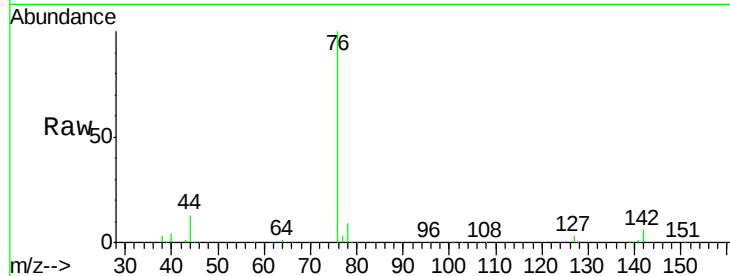
78 8.9 7.1 10.7

Manual Integrations

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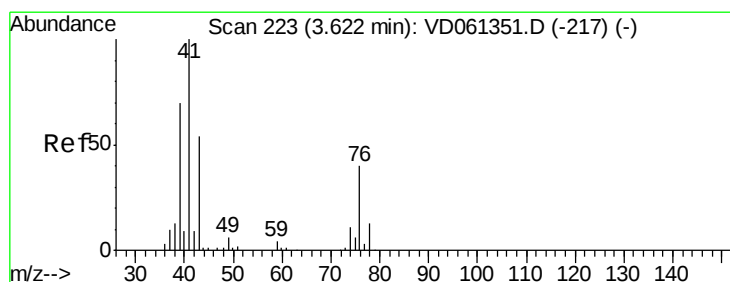
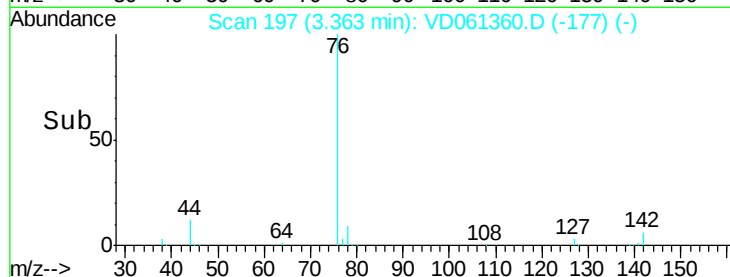
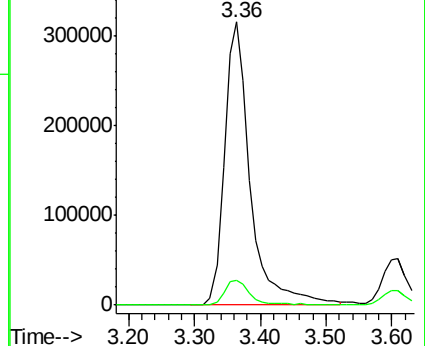
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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 70.880 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.00 min

Lab File: VD061360.D

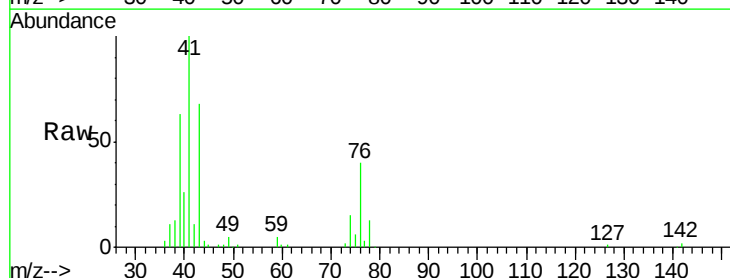
Acq: 27 Mar 2019 18:24

Tgt Ion: 43 Resp: 159911

Ion Ratio Lower Upper

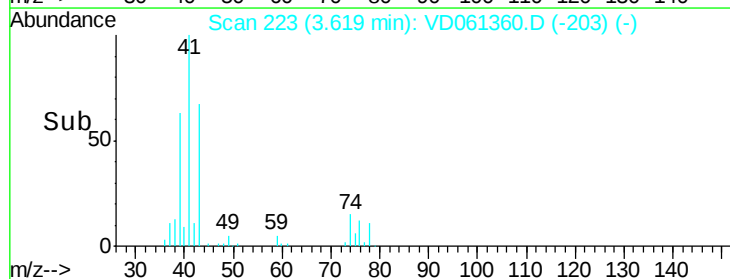
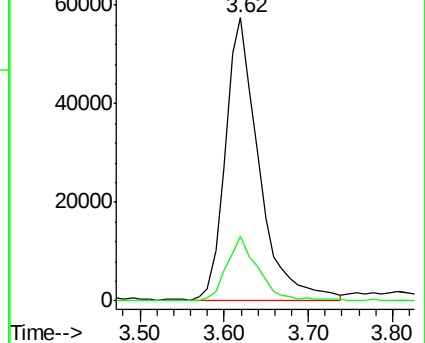
43 100

74 22.6 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





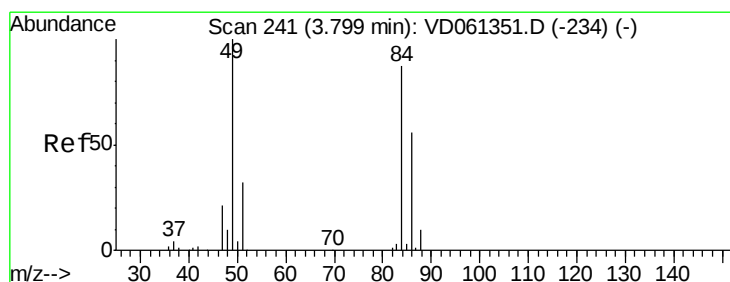
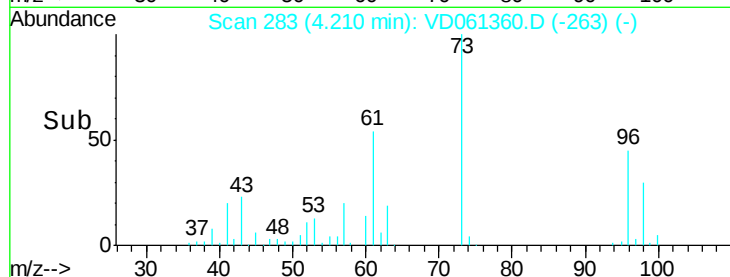
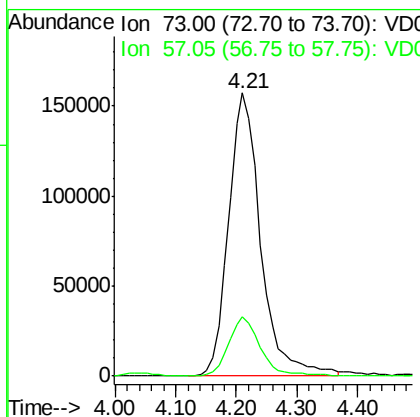
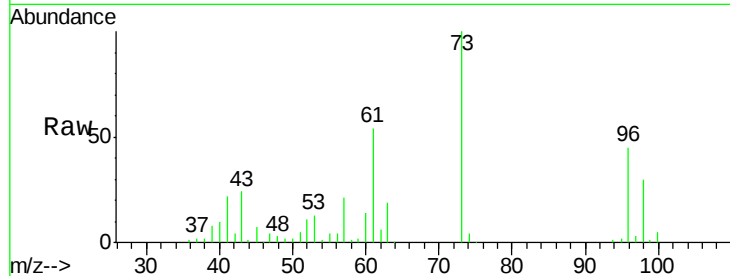
#19
Methyl tert-butyl Ether
Concen: 63.832 ug/l
RT: 4.21 min Scan# 283
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion: 73 Resp: 579519
Ion Ratio Lower Upper
73 100
57 21.2 16.4 24.6

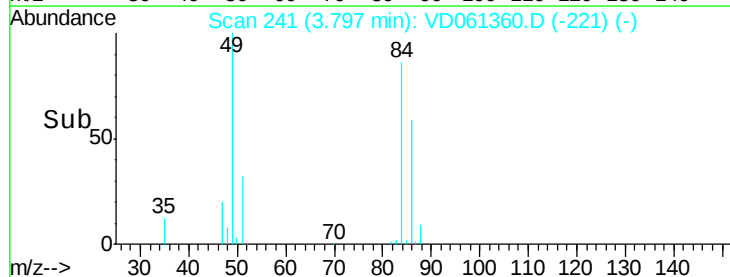
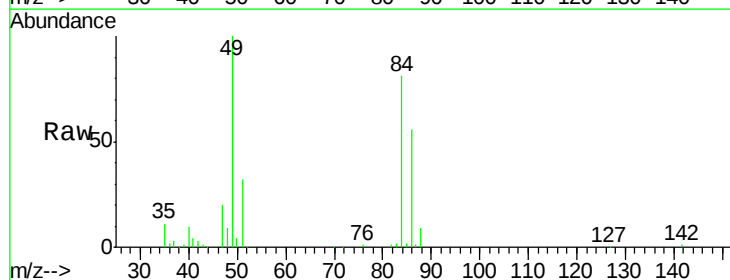
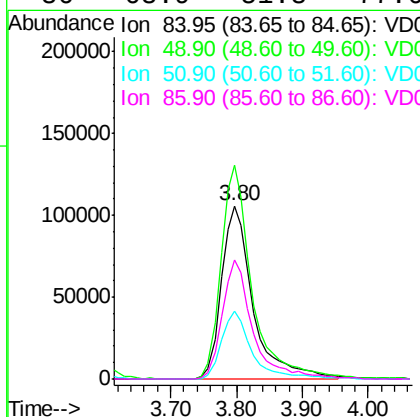
Manual Integrations
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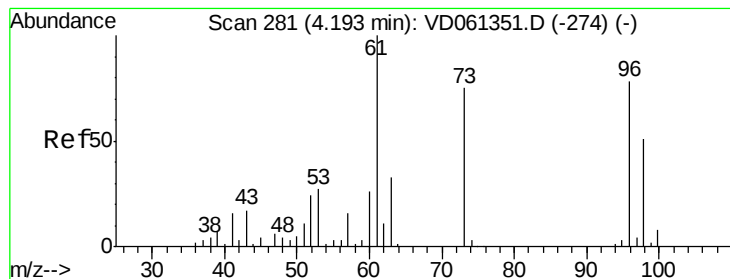
MMDadoda
3/30/2019 12:16:33 AM



#20
Methylene Chloride
Concen: 59.262 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion: 84 Resp: 354085
Ion Ratio Lower Upper
84 100
49 123.4 91.8 137.8
51 38.9 29.8 44.8
86 68.9 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 51.660 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.01 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

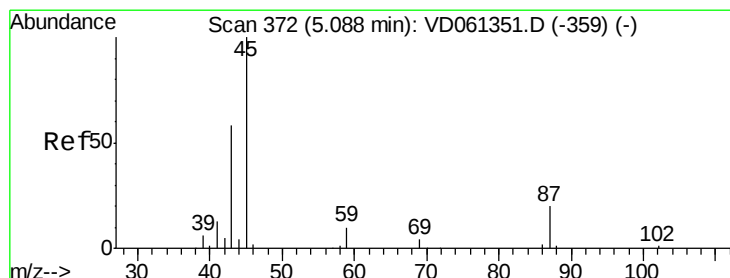
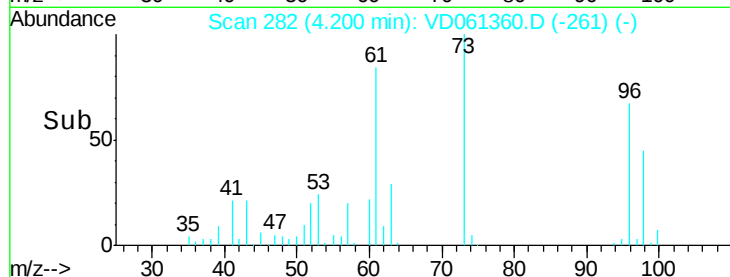
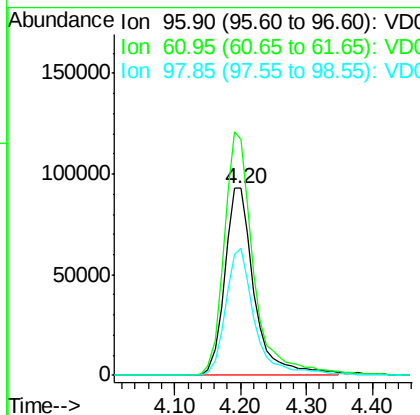
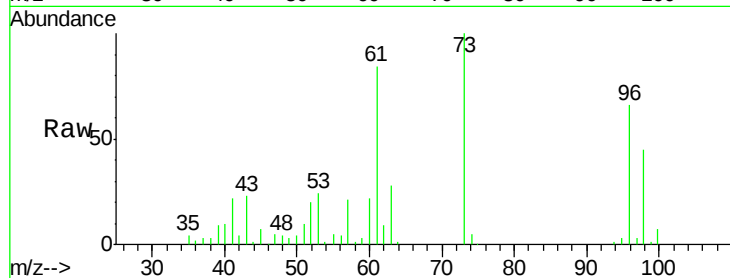
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	96	Resp:	292523
Ion	Ratio	Lower	Upper
96	100		
61	126.4	102.7	154.1
98	68.1	52.2	78.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 58.212 ug/l

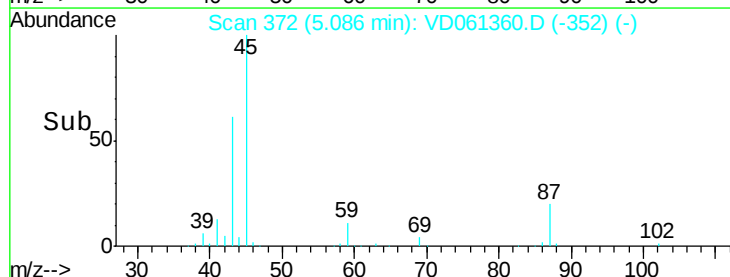
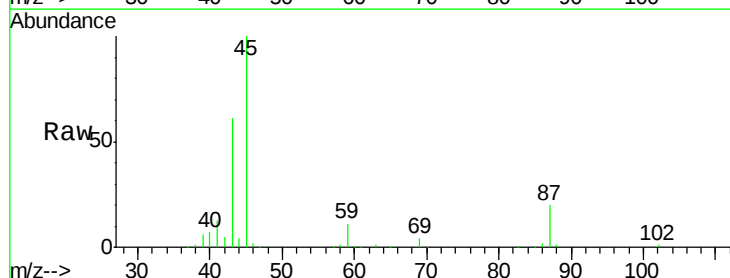
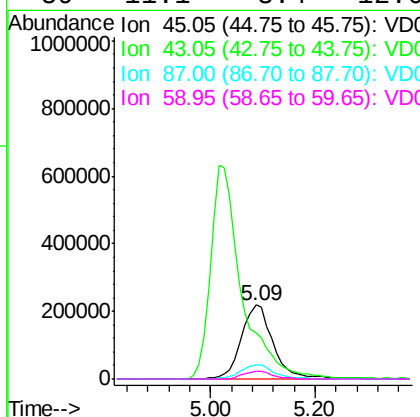
RT: 5.09 min Scan# 372

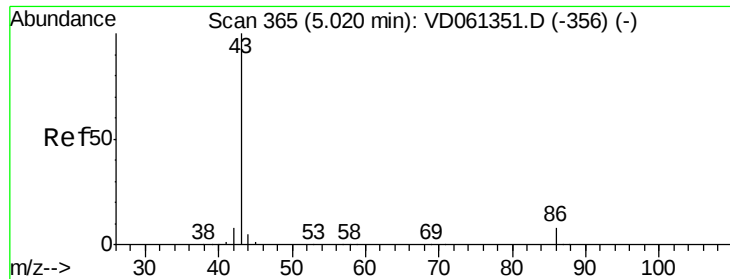
Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	45	Resp:	901127
Ion	Ratio	Lower	Upper
45	100		
43	61.4	47.4	71.2
87	19.9	16.3	24.5
59	11.1	8.4	12.6





#23

Vinyl Acetate

Concen: 305.091 ug/l

RT: 5.02 min Scan# 365

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 43 Resp: 2565441

Ion Ratio Lower Upper

43 100

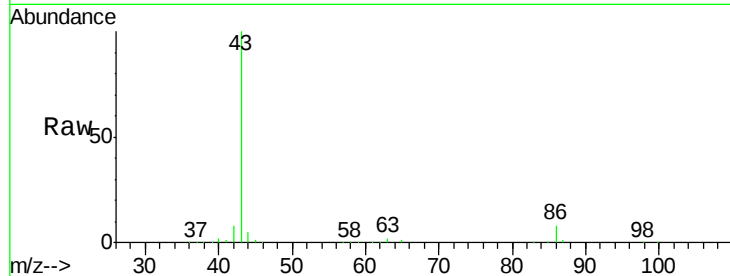
86 7.9 6.7 10.1

Manual Integrations

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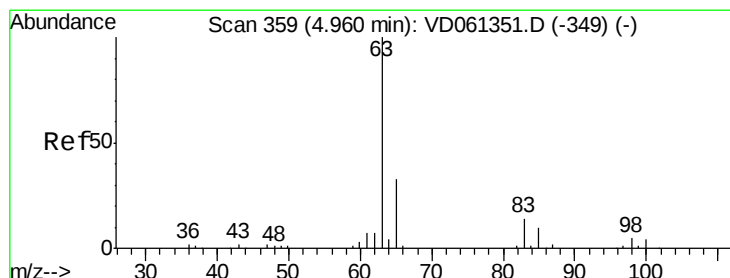
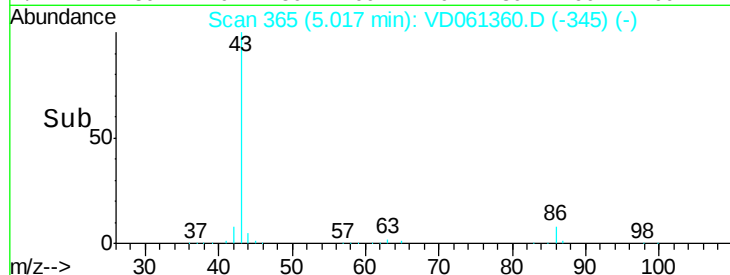
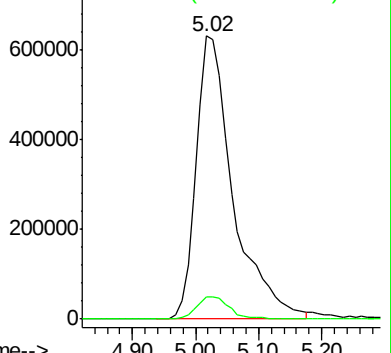
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 52.792 ug/l

RT: 4.95 min Scan# 358

Delta R.T. -0.01 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

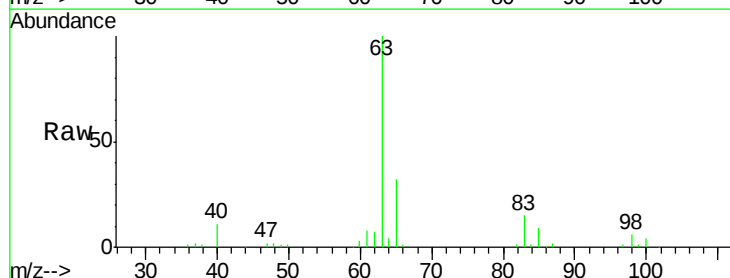
Tgt Ion: 63 Resp: 480282

Ion Ratio Lower Upper

63 100

98 5.7 2.6 8.0

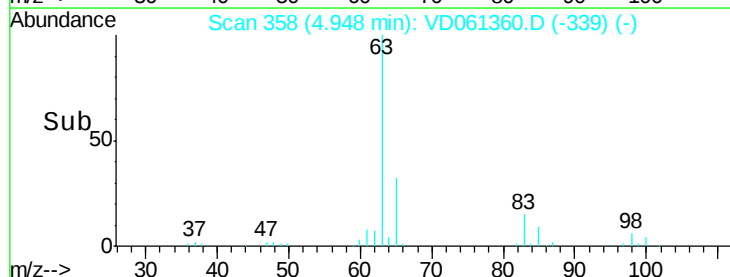
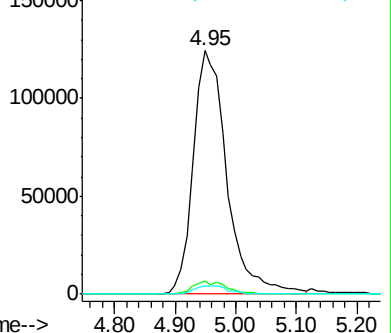
100 3.5 1.8 5.3

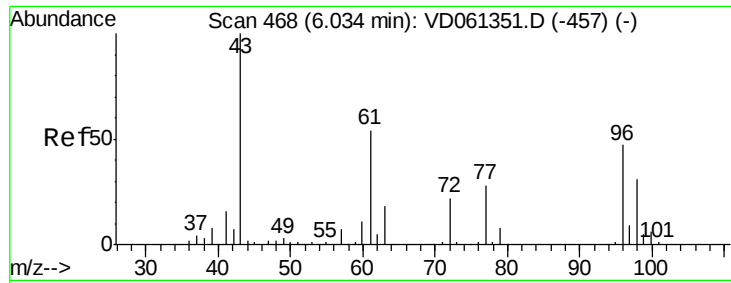


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 347.946 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 43 Resp: 469643

Ion Ratio Lower Upper

43 100

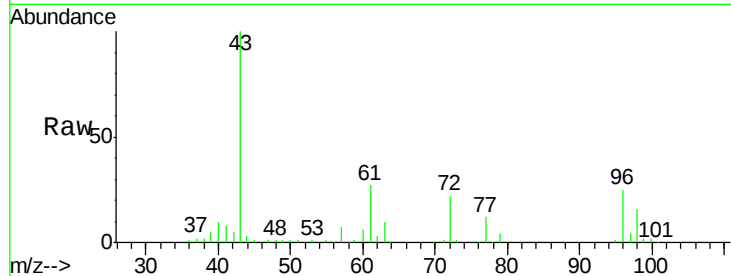
72 21.7 17.2 25.8

Manual Integrations

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3/30/2019 12:16:33 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

100000

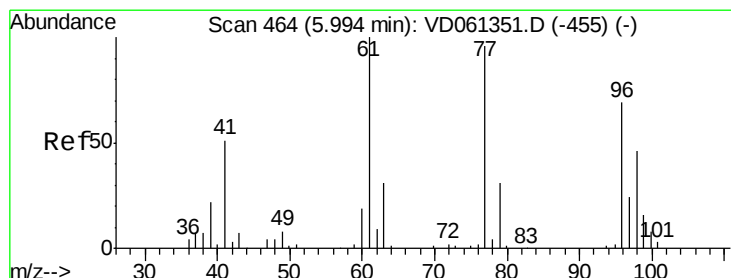
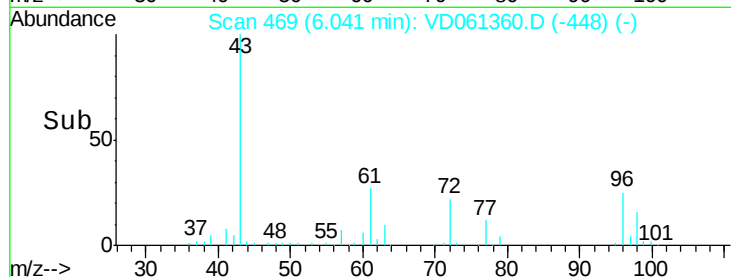
50000

0

6.04

6.10

Time-->



#26

2,2-Dichloropropane

Concen: 48.914 ug/l

RT: 5.99 min Scan# 464

Delta R.T. -0.00 min

Lab File: VD061360.D

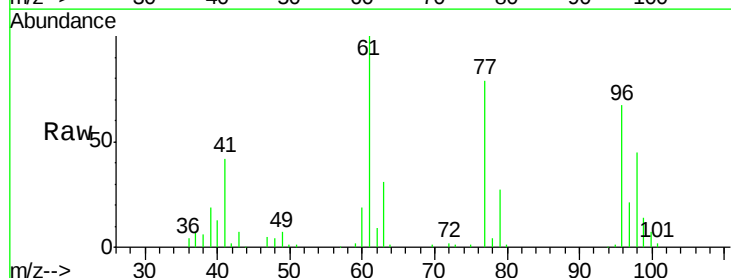
Acq: 27 Mar 2019 18:24

Tgt Ion: 77 Resp: 353751

Ion Ratio Lower Upper

77 100

97 26.9 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

100000

80000

60000

40000

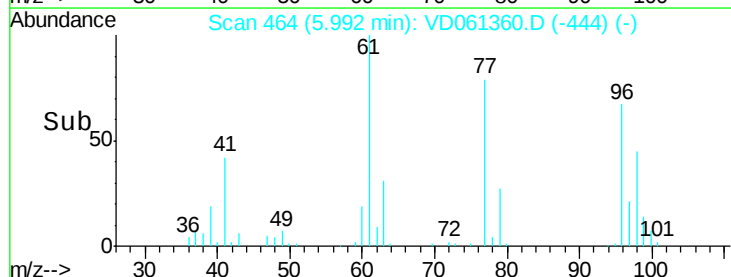
20000

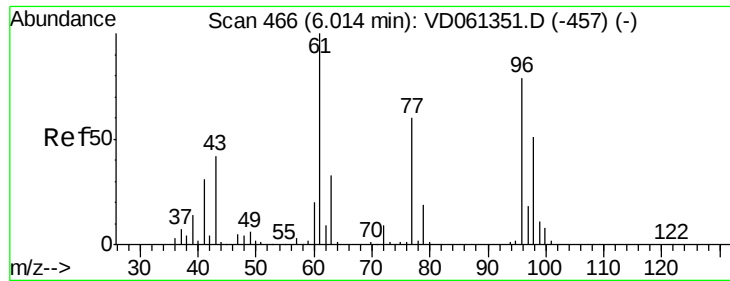
0

5.99

6.10

Time-->





#27

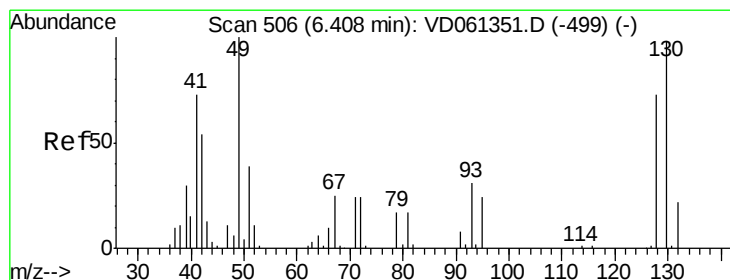
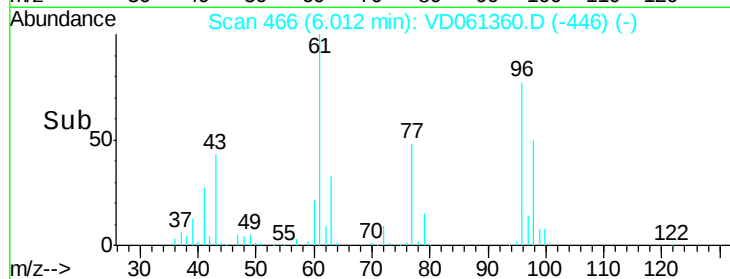
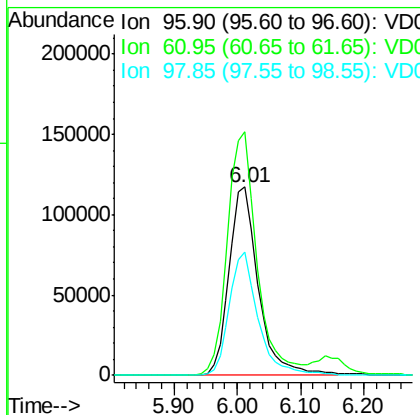
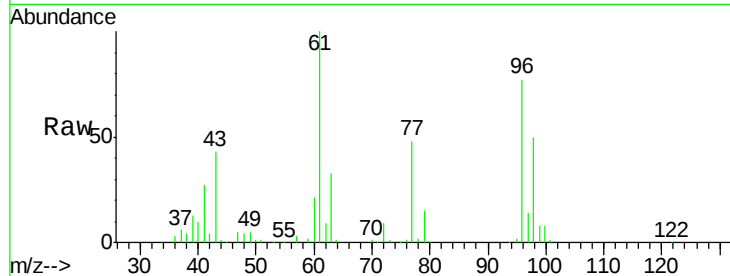
cis-1,2-Dichloroethene
Concen: 60.787 ug/l
RT: 6.01 min Scan# 466
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	377122		
61	129.2	0.0	251.6	
98	65.1	0.0	129.2	

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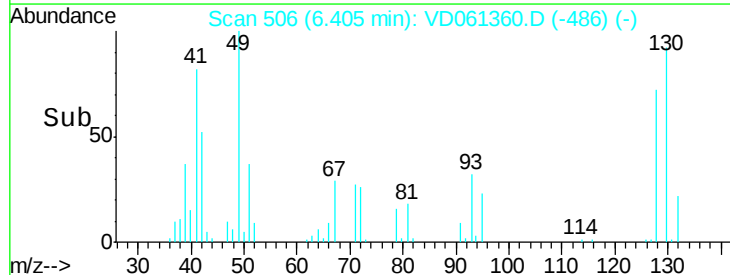
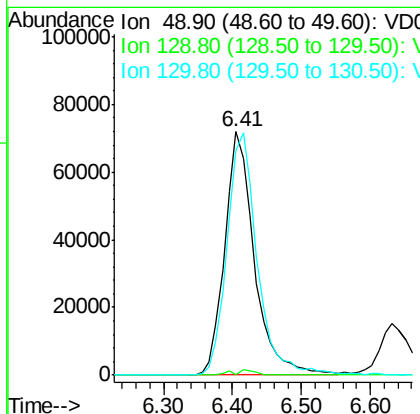
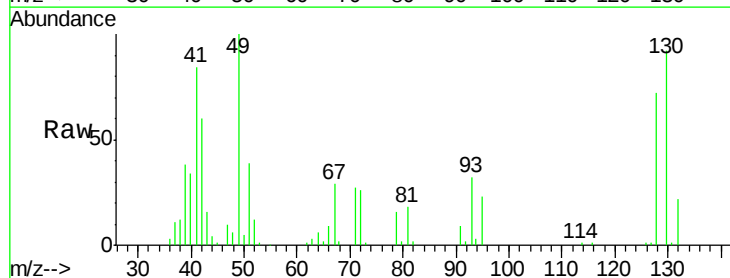
MMDadoda
3/30/2019 12:16:33 AM



#28

Bromochloromethane
Concen: 58.386 ug/l
RT: 6.41 min Scan# 506
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	214416		
129	0.0	0.0	0.0	
130	92.3	78.4	117.6	





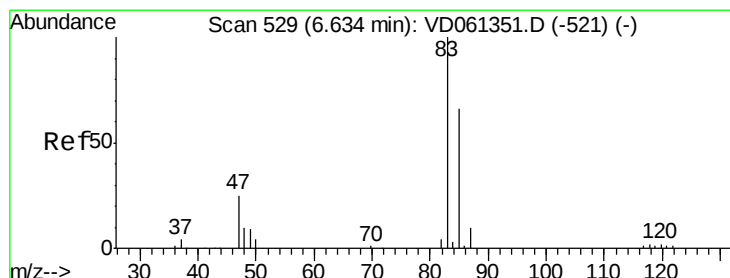
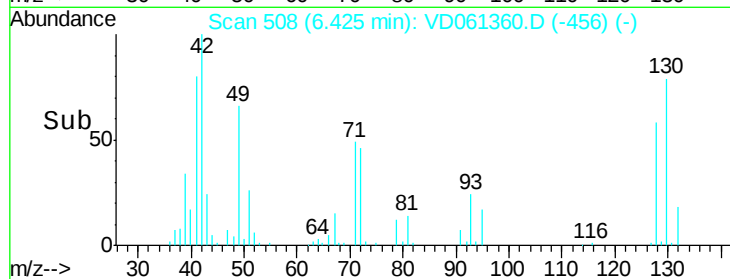
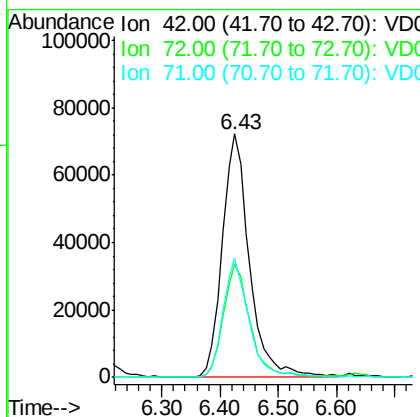
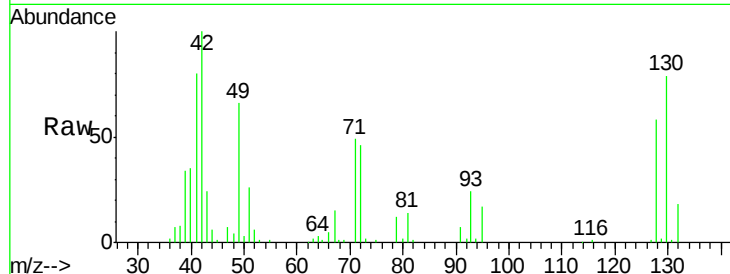
#29
Tetrahydrofuran
Concen: 356.624 ug/l
RT: 6.43 min Scan# 508
Delta R.T. 0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Lower	Upper
42	100		
72	45.5	37.4	56.0
71	46.3	36.7	55.1

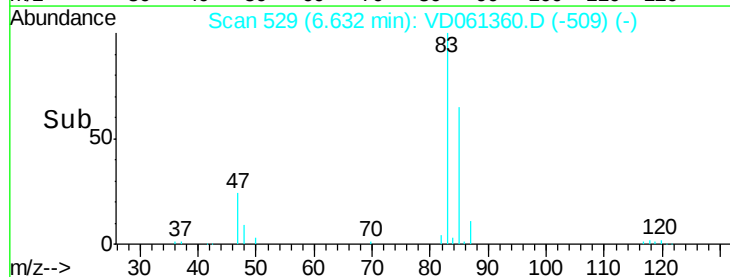
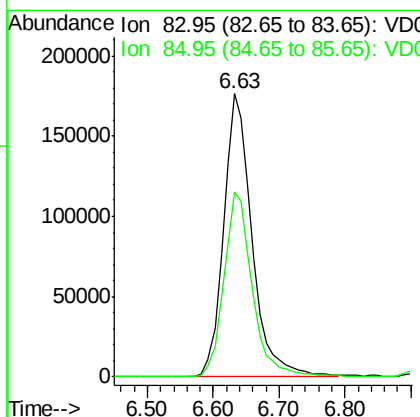
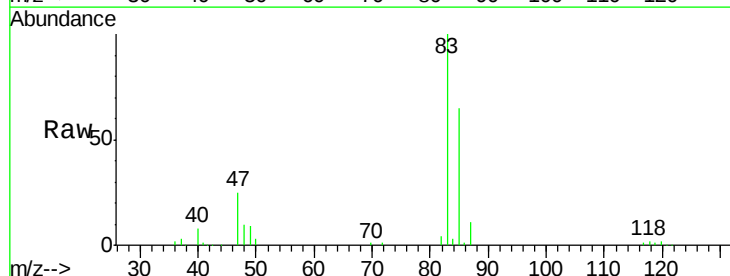
Manual Integrations
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3/30/2019 12:16:33 AM



#30
Chloroform
Concen: 56.466 ug/l
RT: 6.63 min Scan# 529
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	53.0	79.4





#31

Cyclohexane

Concen: 51.913 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

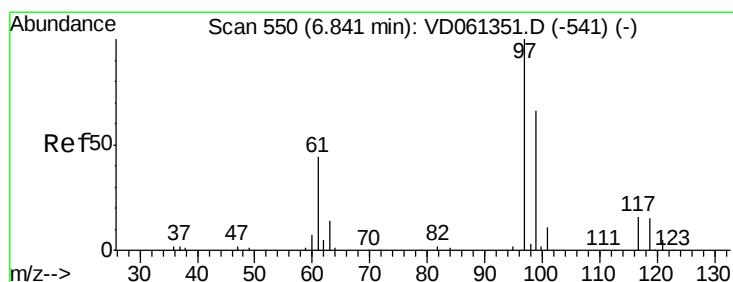
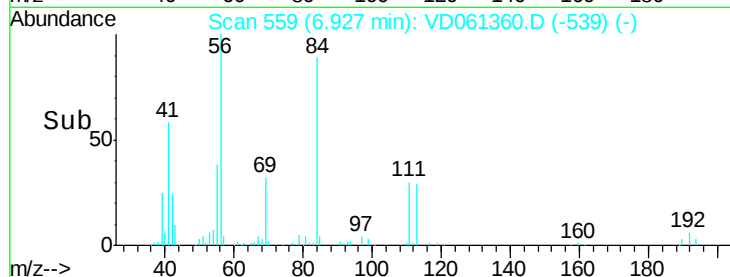
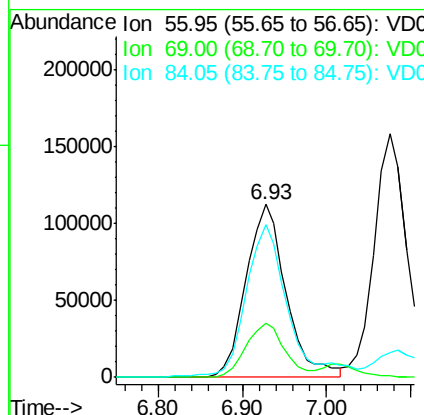
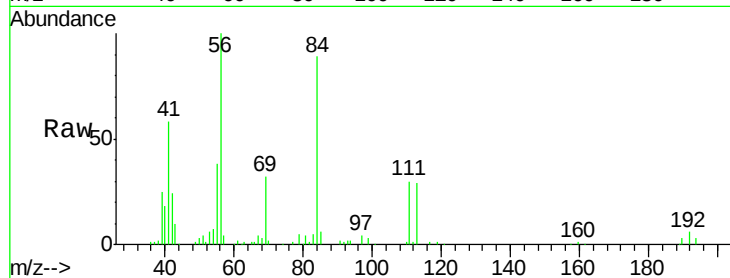
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	56	Resp:	373217
Ion Ratio	Lower	Upper	
56	100		
69	31.6	25.7	38.5
84	88.6	70.6	105.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 51.896 ug/l

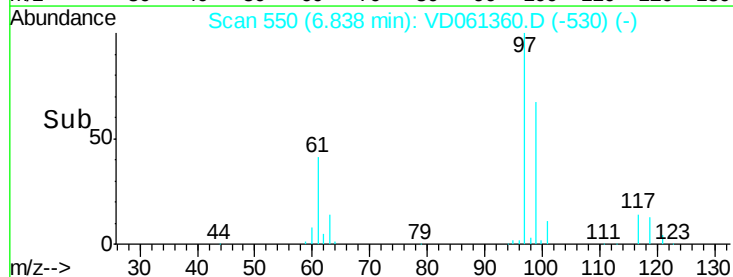
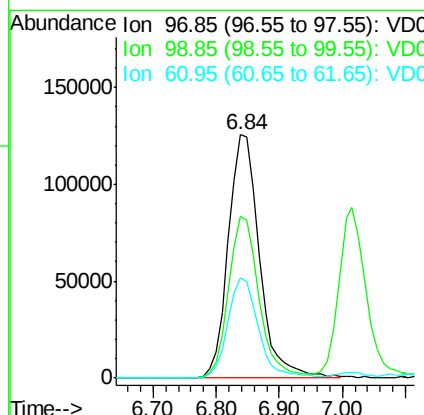
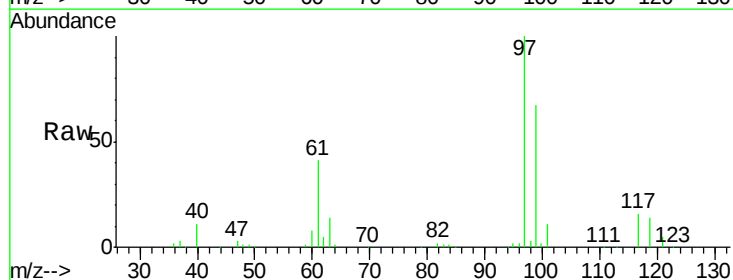
RT: 6.84 min Scan# 550

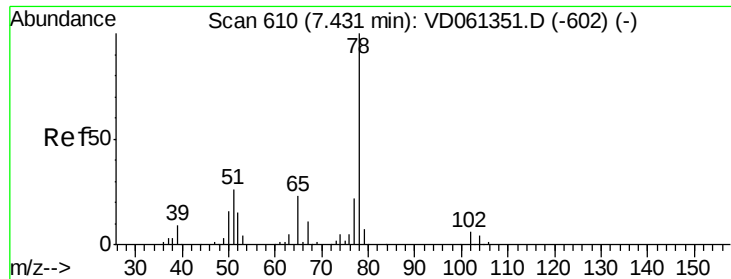
Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	97	Resp:	430383
Ion Ratio	Lower	Upper	
97	100		
99	66.6	53.1	79.7
61	41.4	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 51.896 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 65 Resp: 235792

Ion Ratio Lower Upper

65 100

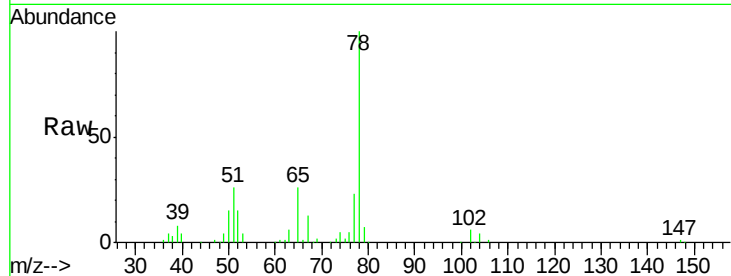
67 49.6 0.0 99.8

Manual Integrations

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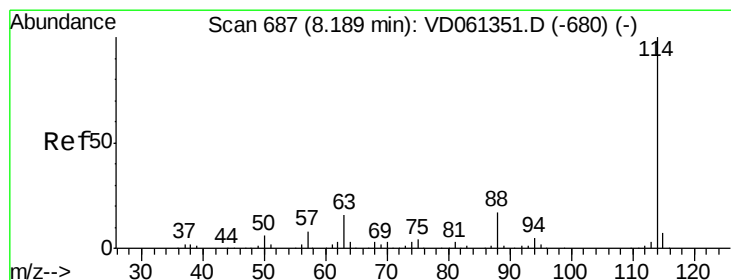
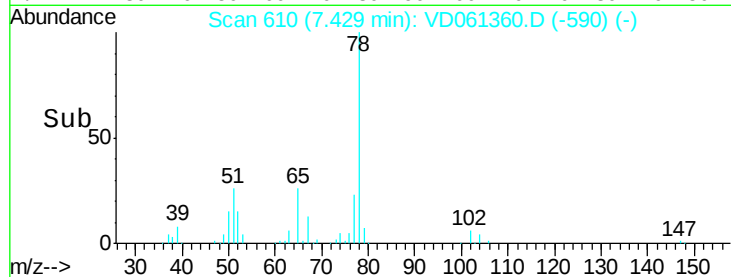
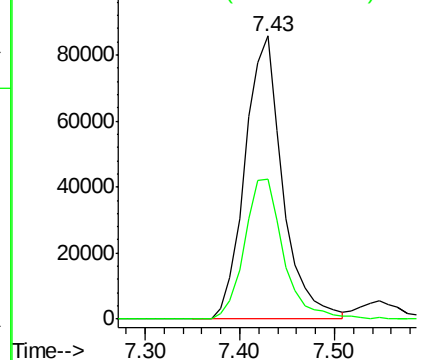
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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 687

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

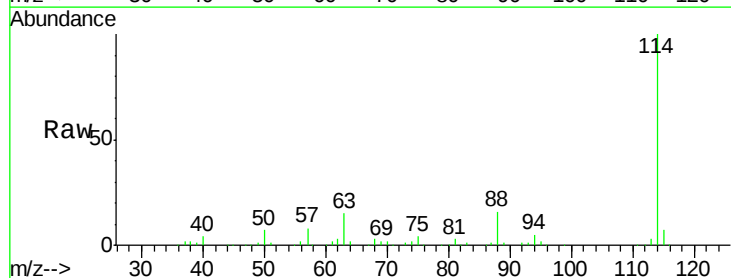
Tgt Ion: 114 Resp: 900304

Ion Ratio Lower Upper

114 100

63 15.4 0.0 31.6

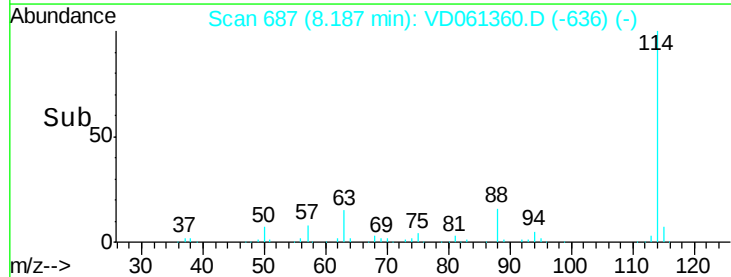
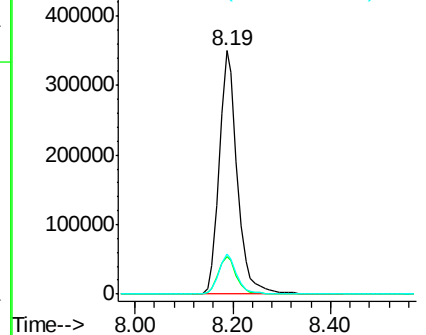
88 16.3 0.0 33.4

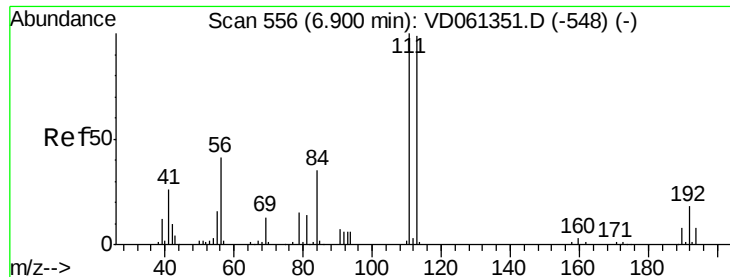


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

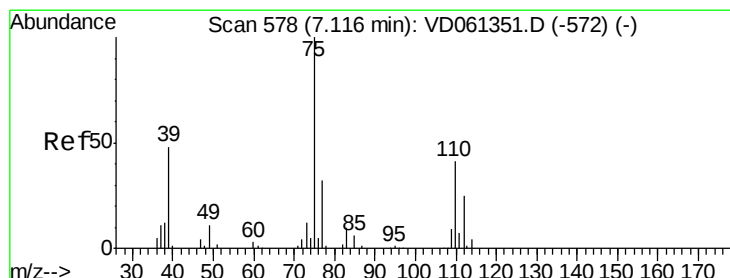
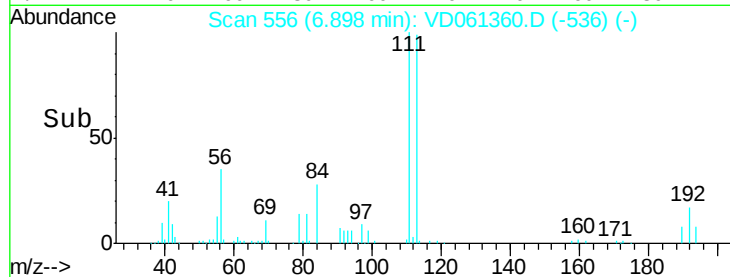
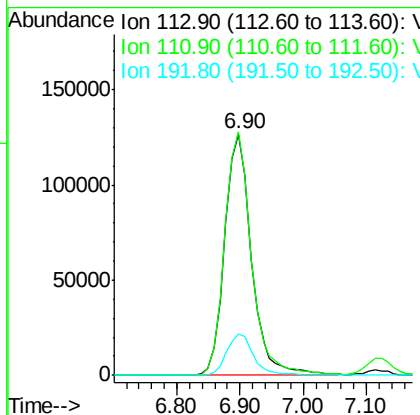
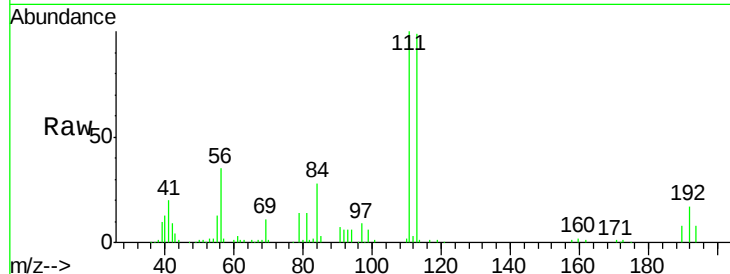
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	113	Resp:	373514
Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.0	121.6
192	17.1	14.4	21.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 45.128 ug/l

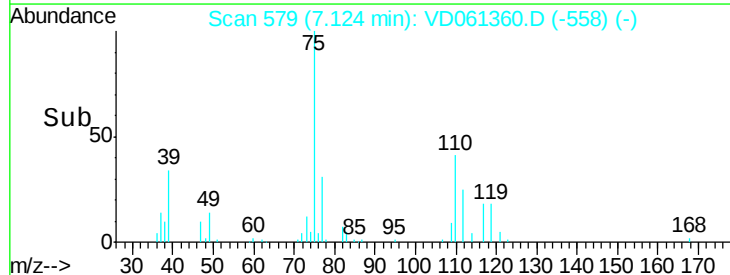
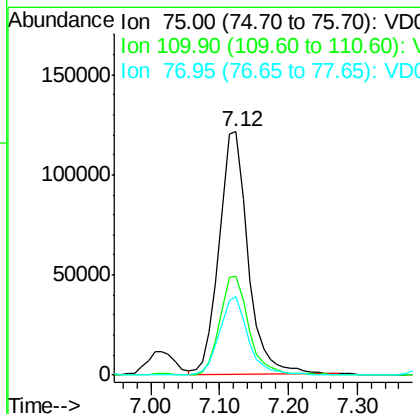
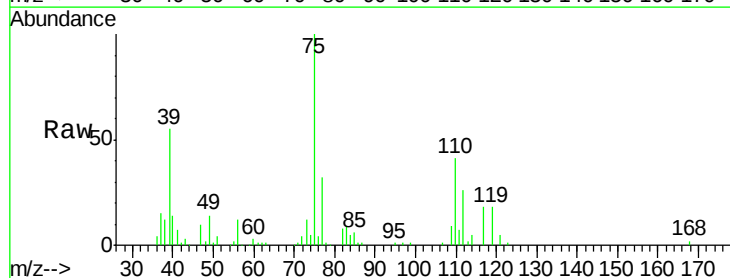
RT: 7.12 min Scan# 579

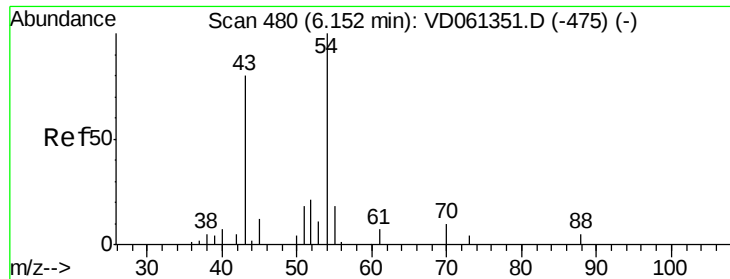
Delta R.T. 0.01 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	75	Resp:	354596
Ion	Ratio	Lower	Upper
75	100		
110	40.5	20.4	61.3
77	32.1	24.9	37.3





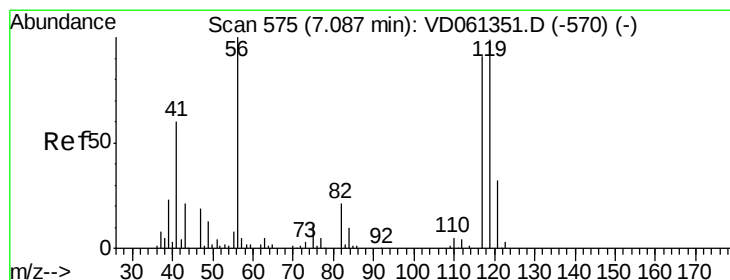
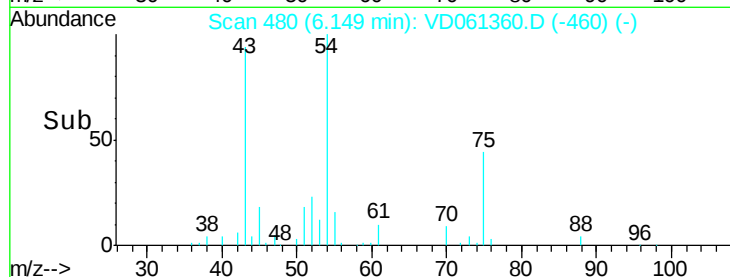
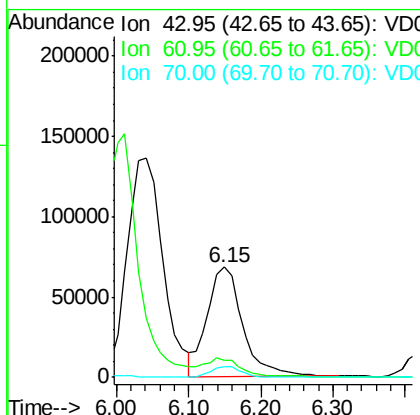
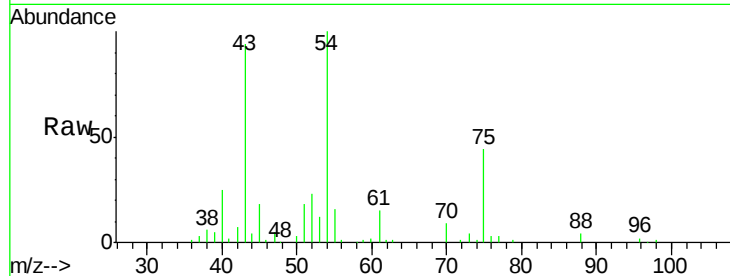
#37
Ethyl Acetate
Concen: 69.032 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.0	13.8	20.8
70	9.9	7.8	11.8

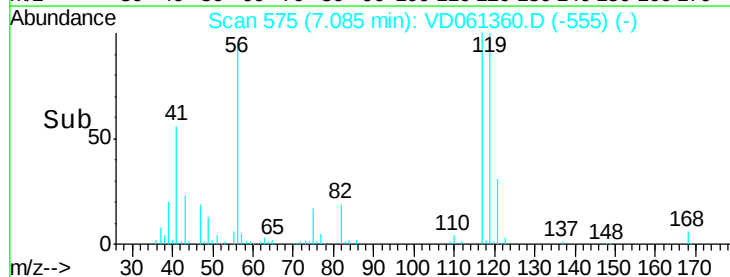
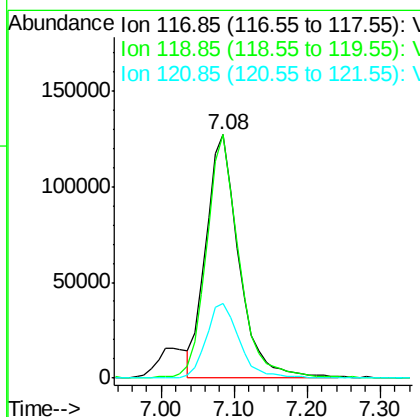
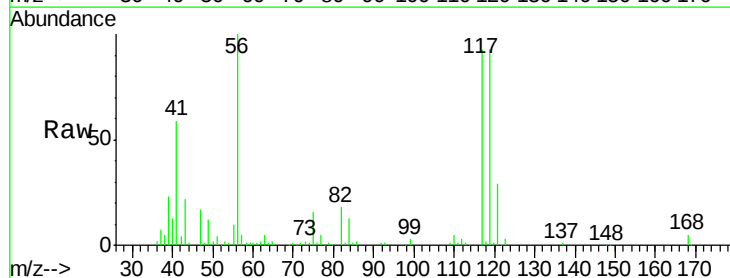
Manual Integrations
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3/30/2019 12:16:33 AM



#38
Carbon Tetrachloride
Concen: 44.389 ug/l m
RT: 7.08 min Scan# 575
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.1	80.1	120.1
121	31.0	25.6	38.4





#39

Methylcyclohexane

Concen: 41.780 ug/l

RT: 8.84 min Scan# 753

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 83 Resp: 341916

Ion Ratio Lower Upper

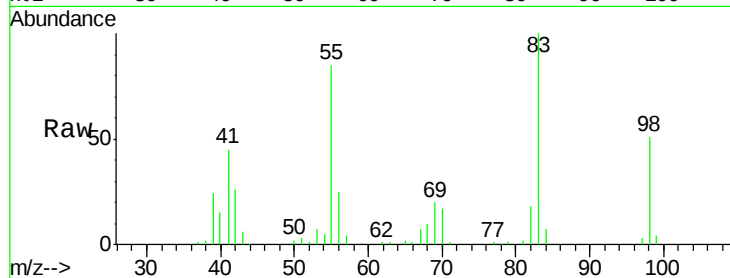
83 100

55 85.3 71.5 107.3

98 51.2 40.3 60.5

Manual Integrations
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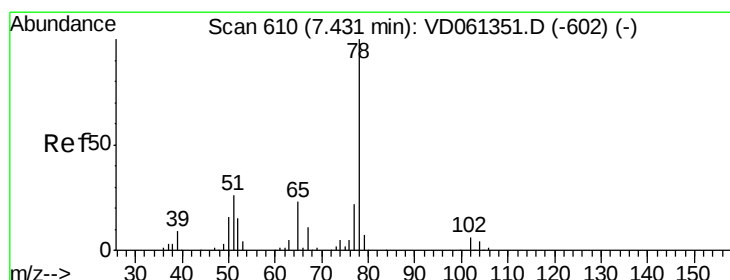
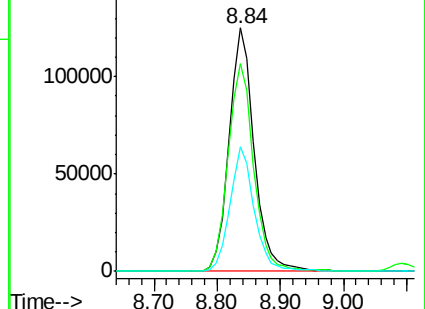
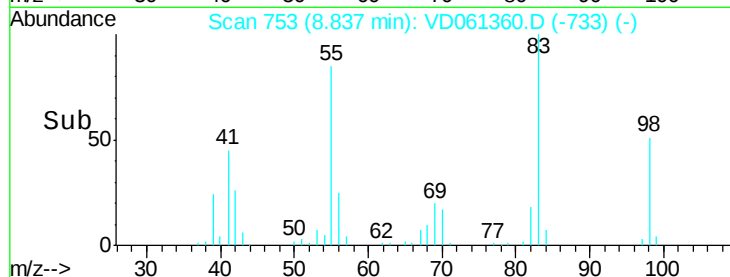
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Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 47.331 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.00 min

Lab File: VD061360.D

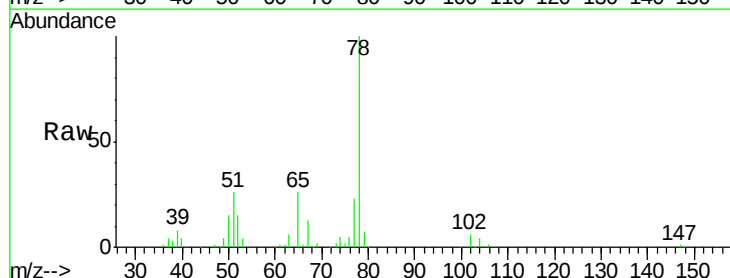
Acq: 27 Mar 2019 18:24

Tgt Ion: 78 Resp: 933389

Ion Ratio Lower Upper

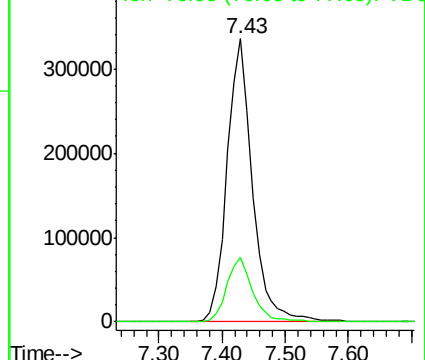
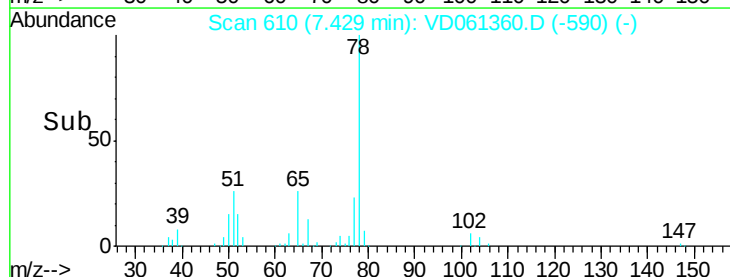
78 100

77 22.9 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





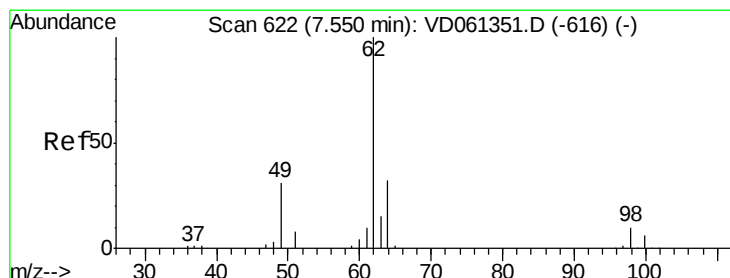
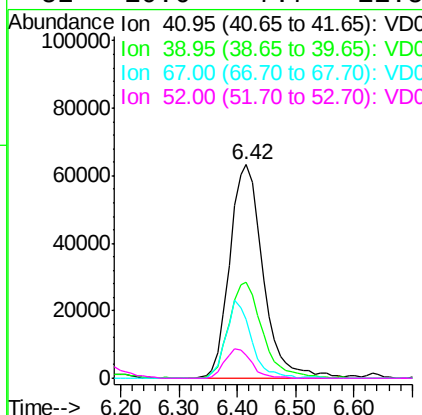
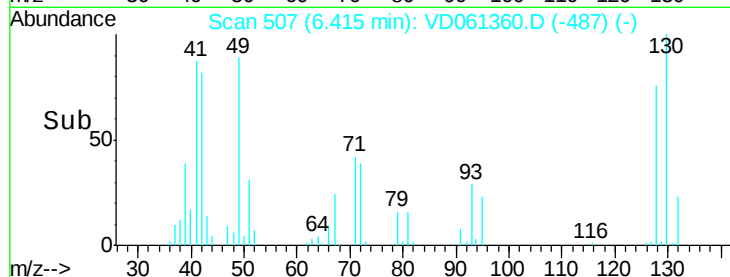
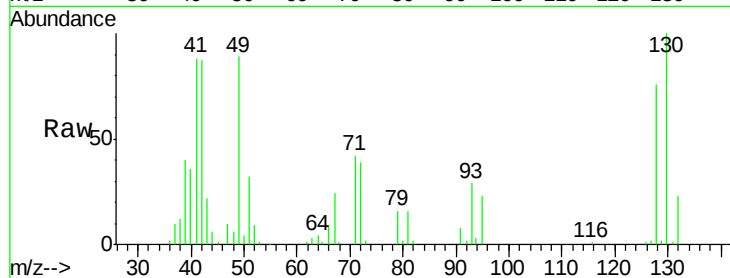
#41
Methacrylonitrile
Concen: 64.130 ug/l
RT: 6.42 min Scan# 507
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Lower	Upper
41	100		
39	44.7	35.0	52.6
67	27.3	21.0	31.6
52	10.6	7.7	11.5

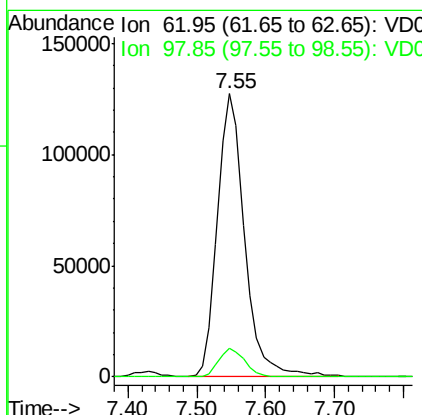
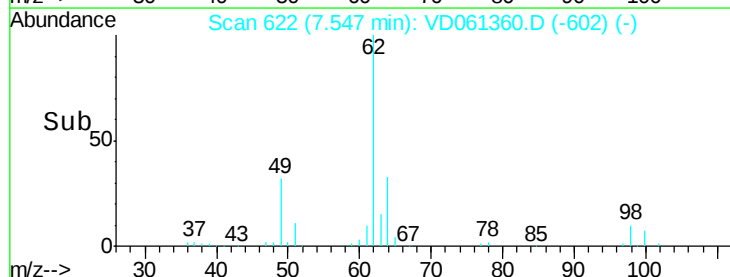
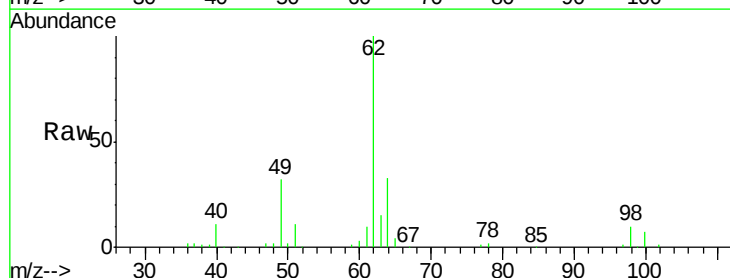
Manual Integrations
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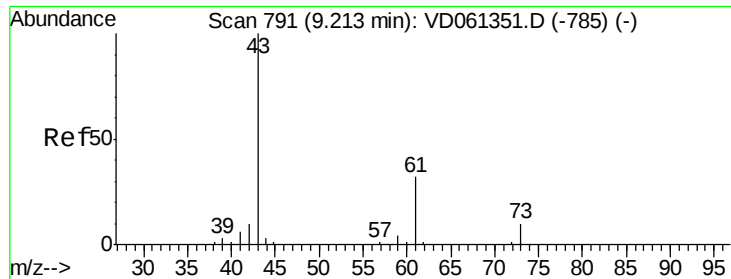
MMDadoda
3/30/2019 12:16:33 AM



#42
1,2-Dichloroethane
Concen: 59.378 ug/l
RT: 7.55 min Scan# 622
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.8





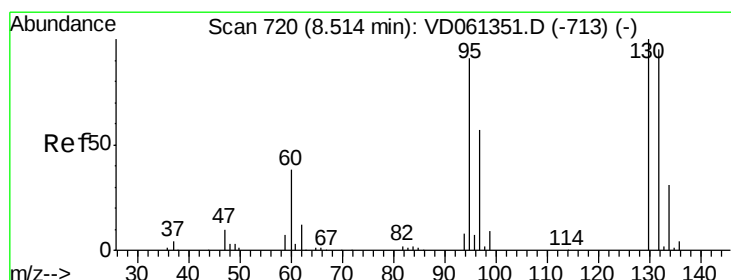
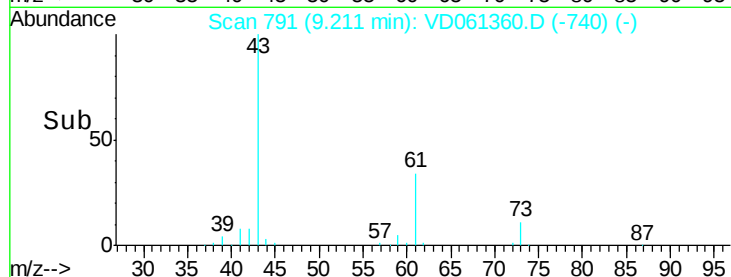
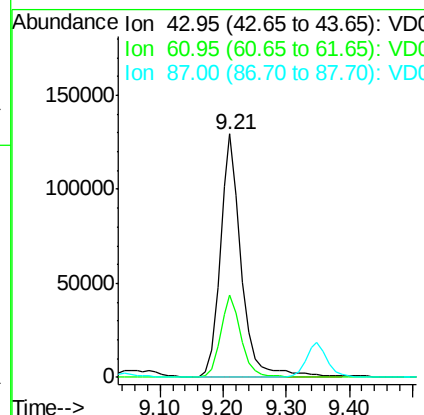
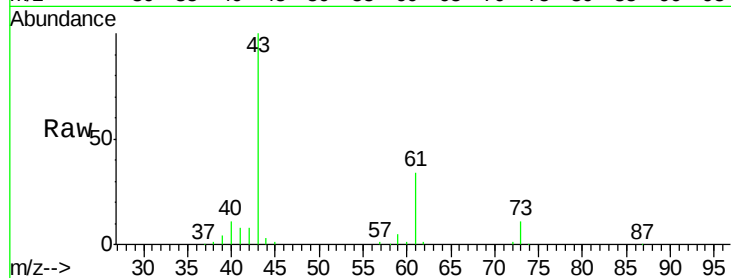
#43
Isopropyl Acetate
Concen: 61.835 ug/l
RT: 9.21 min Scan# 791
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Lower	Upper
43	100		
61	33.8	25.8	38.6
87	0.4	0.0	0.0#

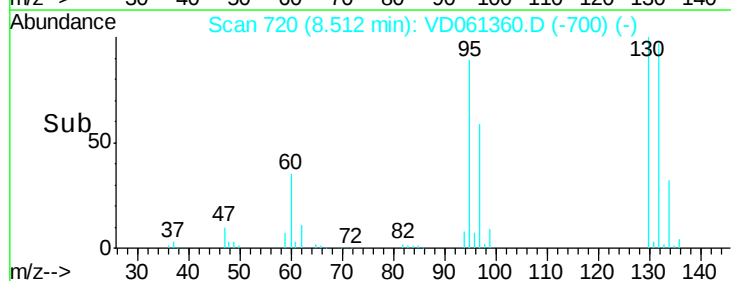
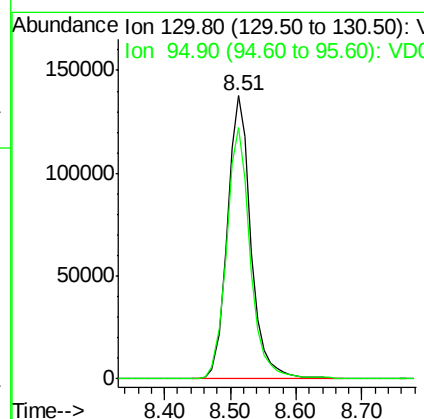
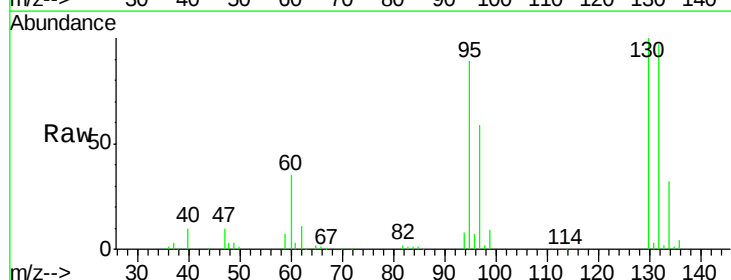
Manual Integrations
APPROVED

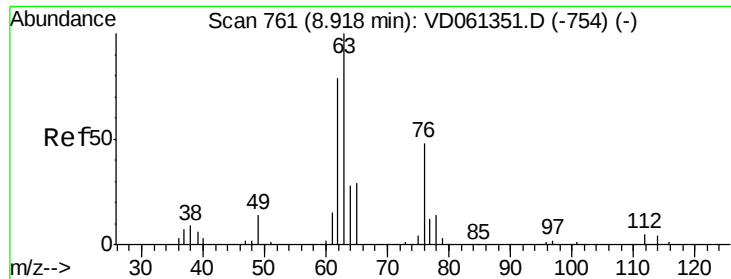
MMDadoda
3/30/2019 12:16:33 AM



#44
Trichloroethene
Concen: 47.180 ug/l
RT: 8.51 min Scan# 720
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.9	0.0	181.4





#45

1,2-Dichloropropane

Concen: 52.864 ug/l

RT: 8.92 min Scan# 761

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 63 Resp: 264347

Ion Ratio Lower Upper

63 100

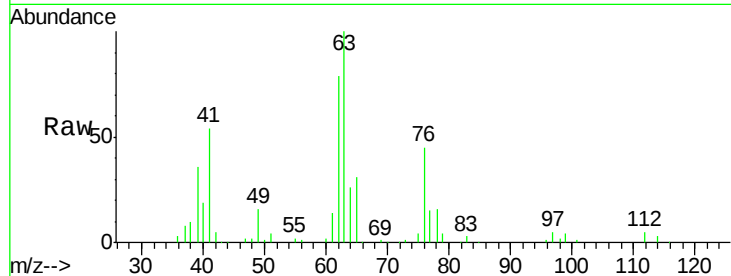
65 31.1 25.0 37.4

Manual Integrations

APPROVED

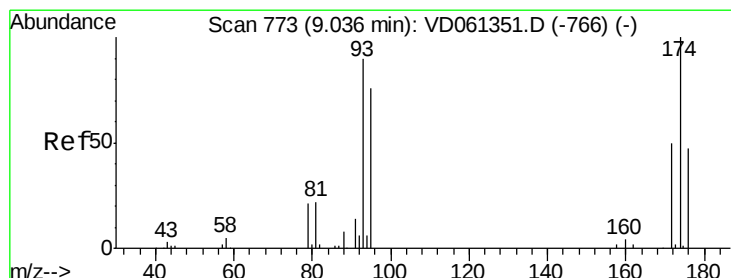
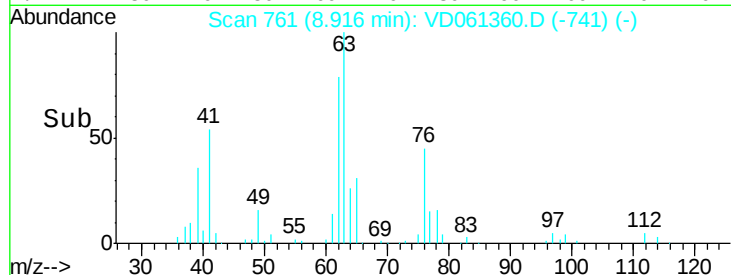
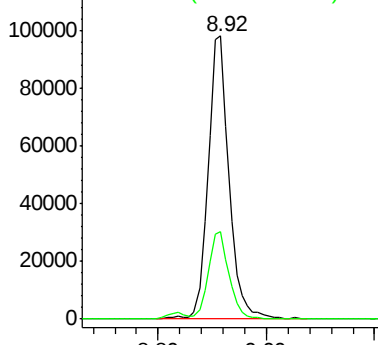
MMDadoda

3/30/2019 12:16:33 AM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 59.633 ug/l

RT: 9.03 min Scan# 773

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

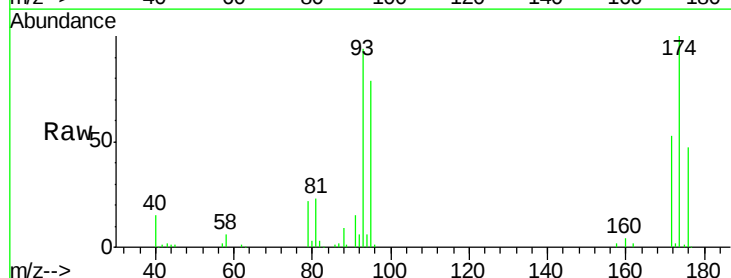
Tgt Ion: 93 Resp: 200709

Ion Ratio Lower Upper

93 100

95 83.8 67.4 101.0

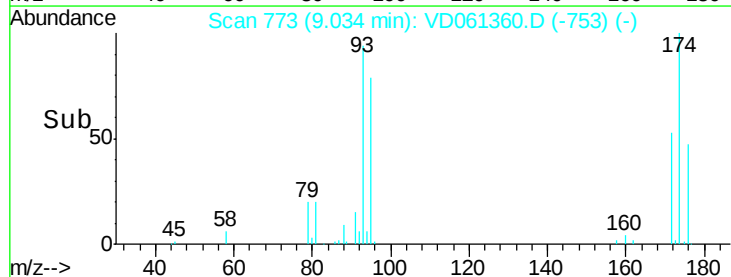
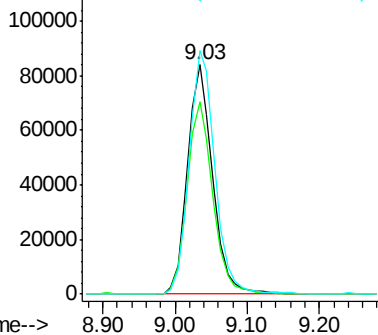
174 106.1 88.9 133.3

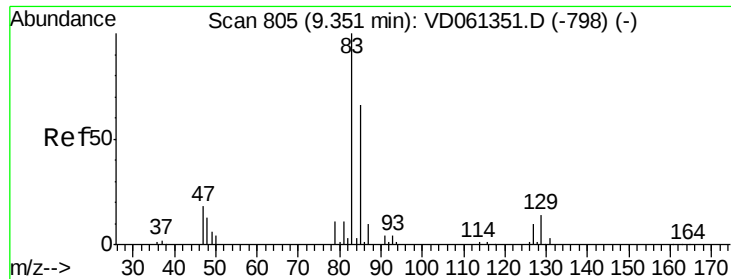


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 55.114 ug/l

RT: 9.35 min Scan# 805

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

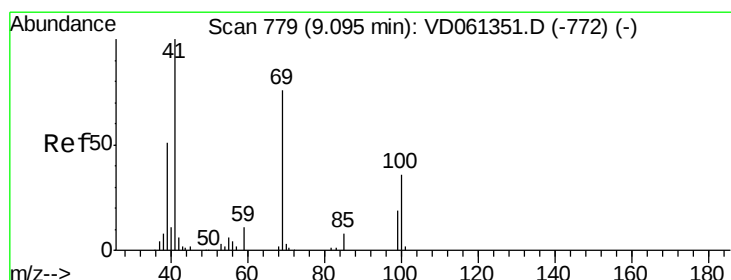
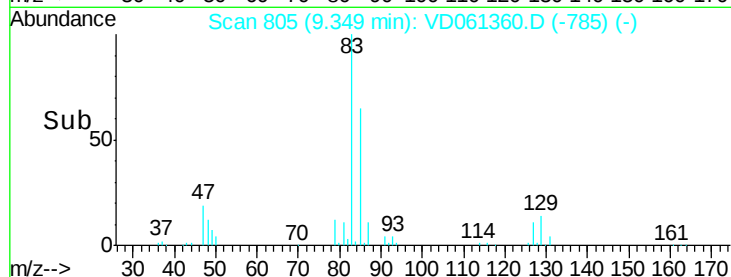
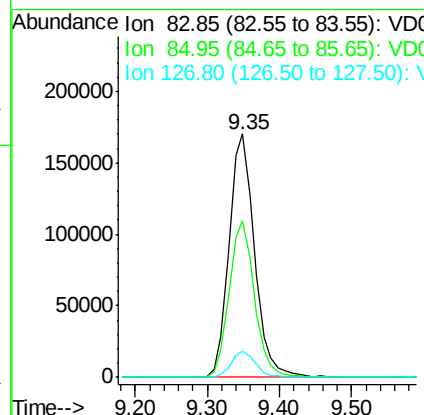
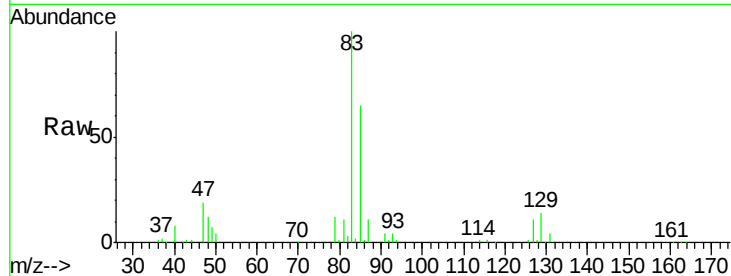
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	83	Resp:	416344
Ion	Ratio	Lower	Upper
83	100		
85	64.5	53.0	79.4
127	10.6	8.4	12.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 60.185 ug/l

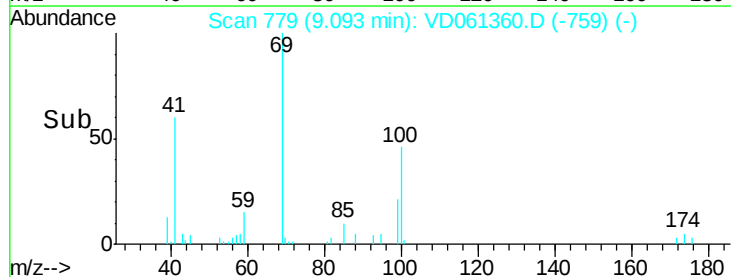
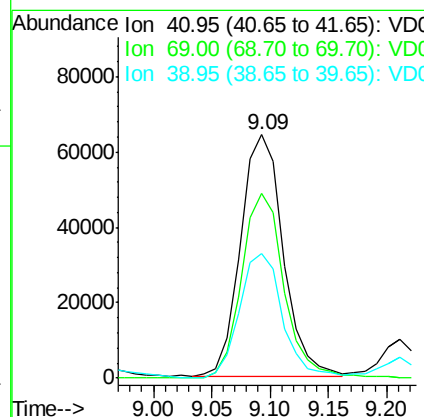
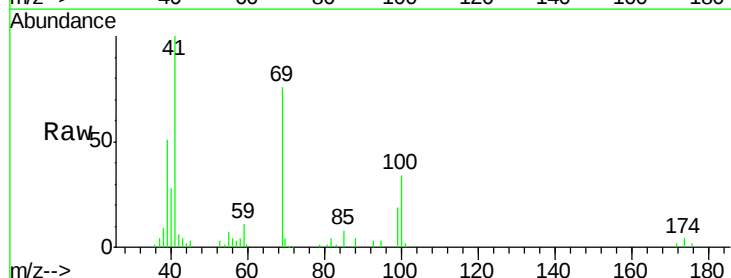
RT: 9.09 min Scan# 779

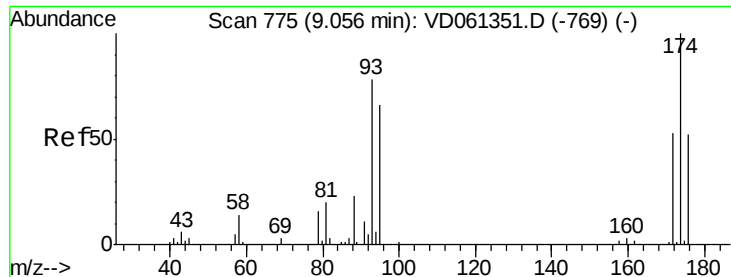
Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	41	Resp:	162407
Ion	Ratio	Lower	Upper
41	100		
69	75.8	60.2	90.4
39	51.4	41.4	62.2





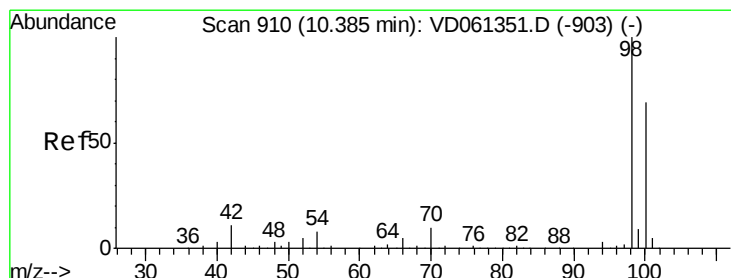
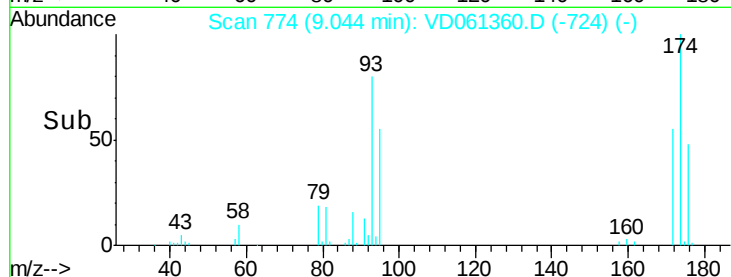
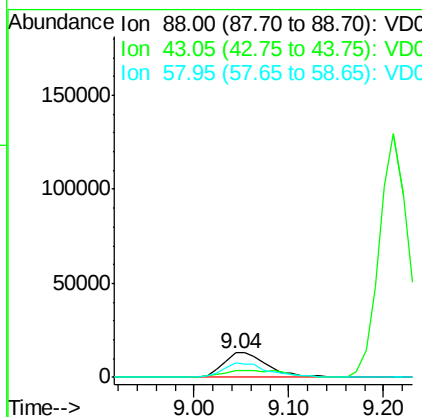
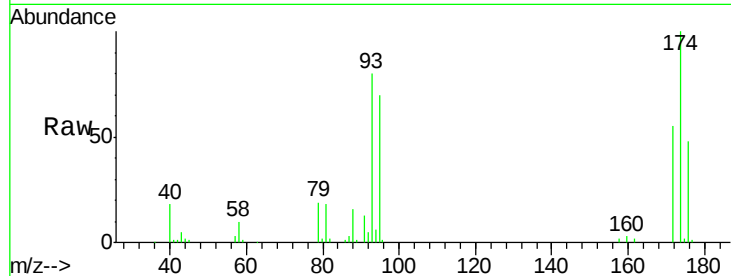
#49
1,4-Dioxane
Concen: 1400.062 ug/l
RT: 9.04 min Scan# 774
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Lower	Upper
88	100		
43	30.1	23.3	34.9
58	60.9	50.8	76.2

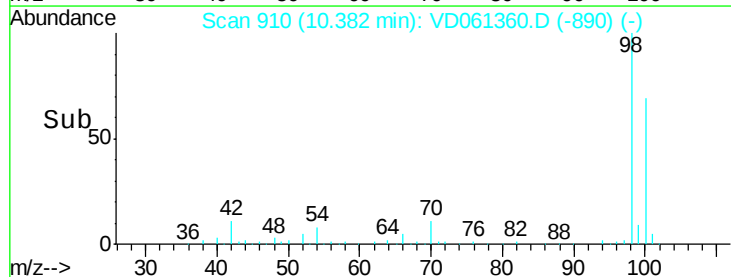
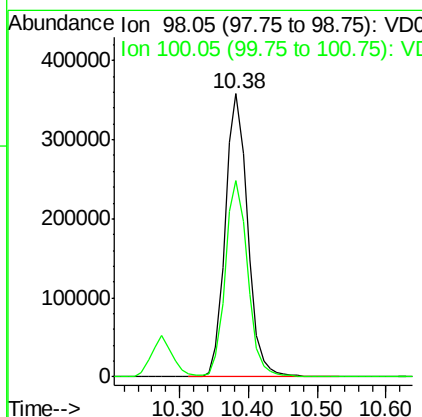
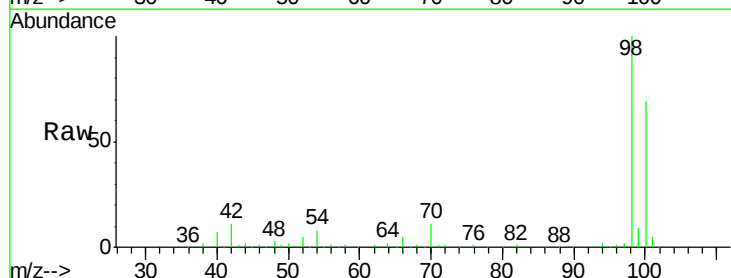
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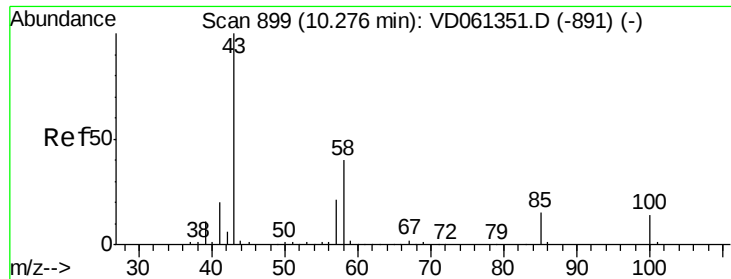
MMDadoda
3/30/2019 12:16:33 AM



#50
Toluene-d8
Concen: 1400.062 ug/l
RT: 10.38 min Scan# 910
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.4	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 305.131 ug/l

RT: 10.27 min Scan# 899

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 43 Resp: 907683

Ion Ratio Lower Upper

43 100

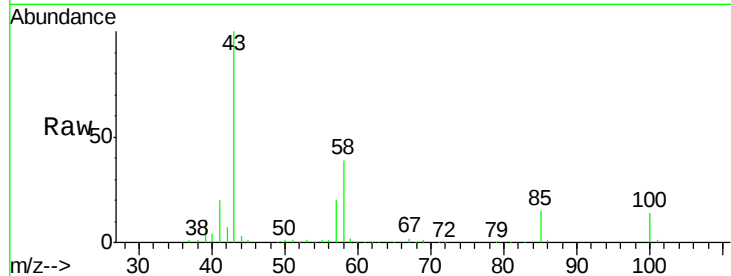
58 39.5 31.8 47.8

Manual Integrations

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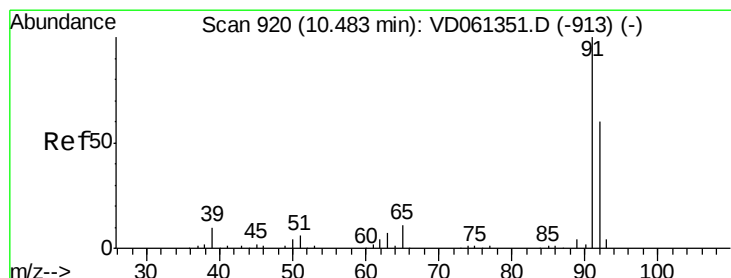
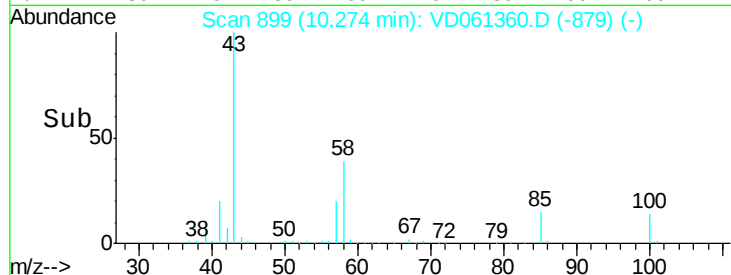
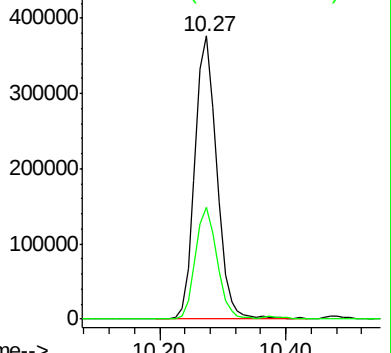
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 53.178 ug/l

RT: 10.48 min Scan# 920

Delta R.T. -0.00 min

Lab File: VD061360.D

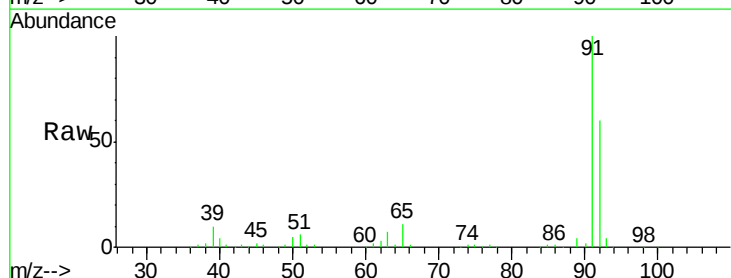
Acq: 27 Mar 2019 18:24

Tgt Ion: 92 Resp: 639781

Ion Ratio Lower Upper

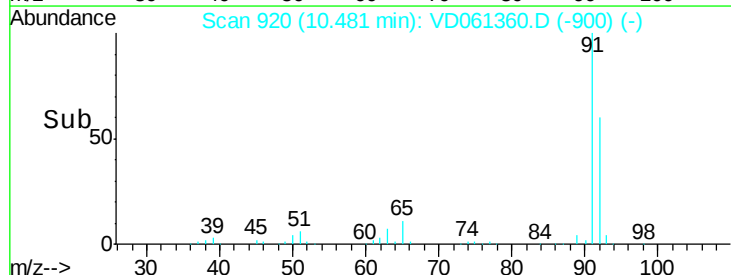
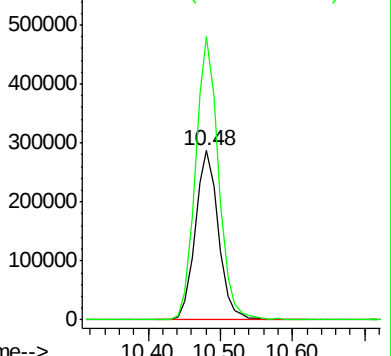
92 100

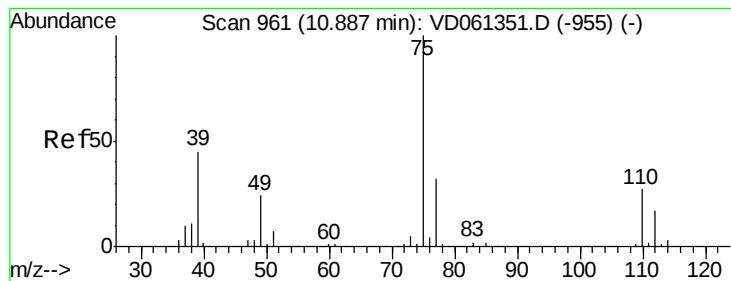
91 167.4 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 56.651 ug/l

RT: 10.88 min Scan# 961

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 75 Resp: 388820

Ion Ratio Lower Upper

75 100

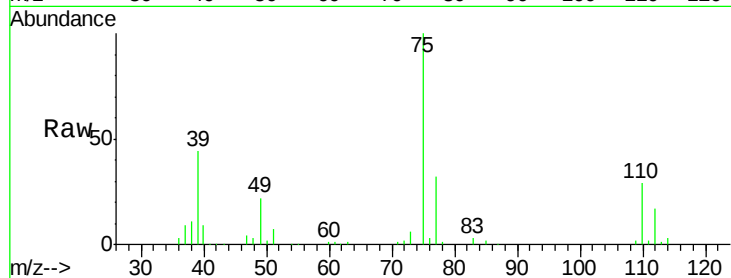
77 32.2 25.4 38.2

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.88

200000

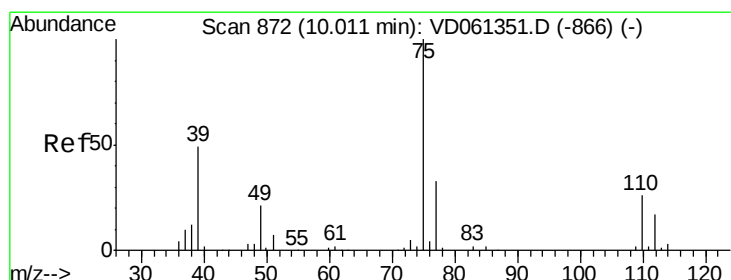
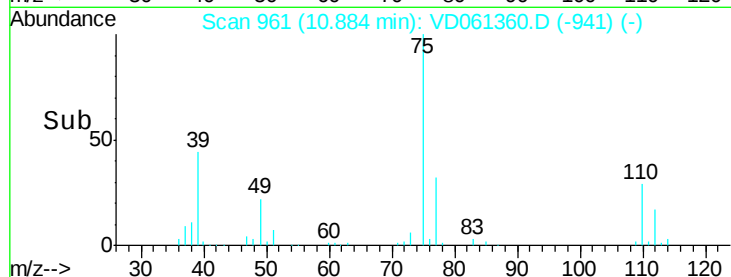
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 52.926 ug/l

RT: 10.01 min Scan# 872

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

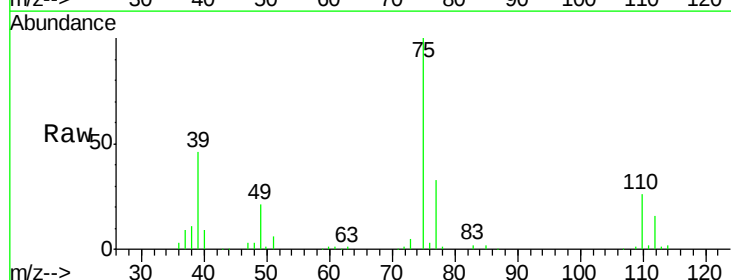
Tgt Ion: 75 Resp: 442315

Ion Ratio Lower Upper

75 100

77 32.6 26.2 39.4

39 46.0 39.4 59.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.01

250000

200000

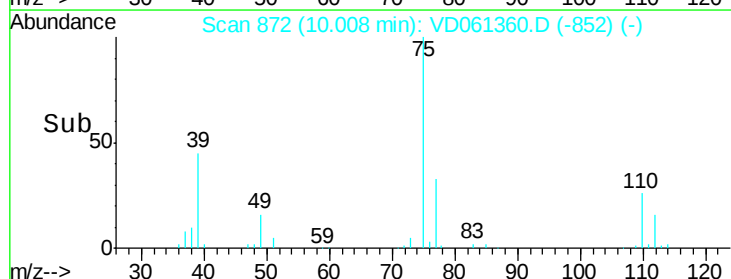
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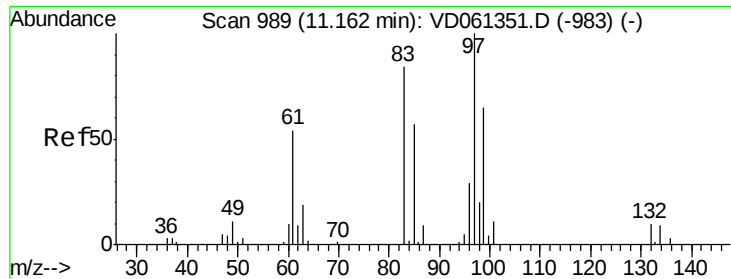
100000

50000

0

Time-->





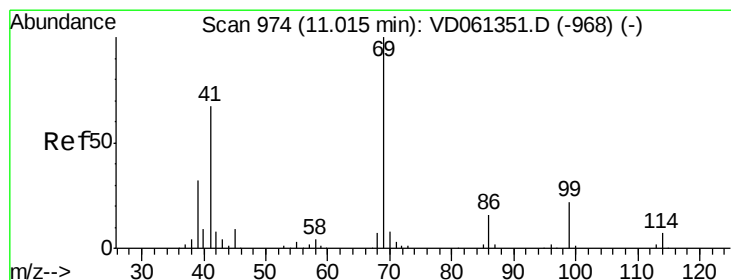
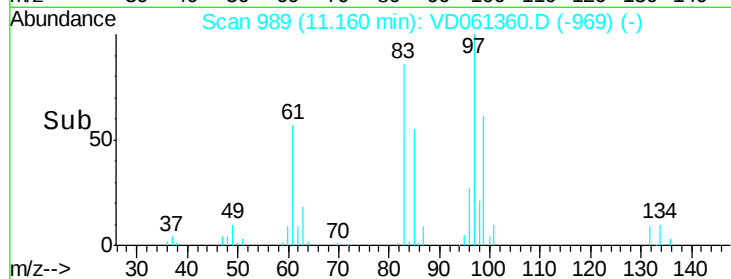
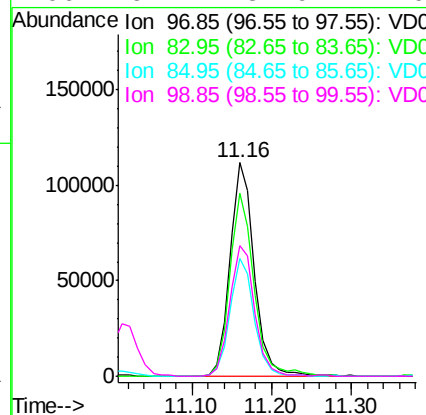
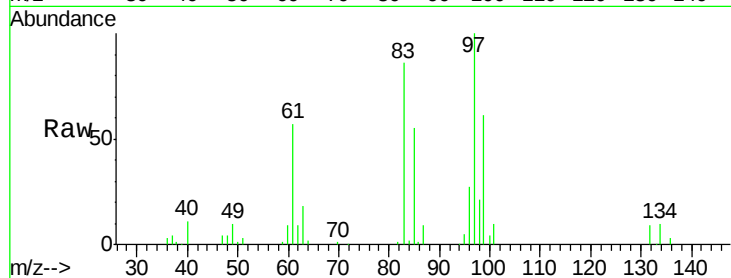
#55
1,1,2-Trichloroethane
Concen: 56.929 ug/l
RT: 11.16 min Scan# 989
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion:	97	Resp:	239530
Ion	Ratio	Lower	Upper
97	100		
83	85.8	67.0	100.6
85	55.0	45.4	68.2
99	61.2	51.9	77.9

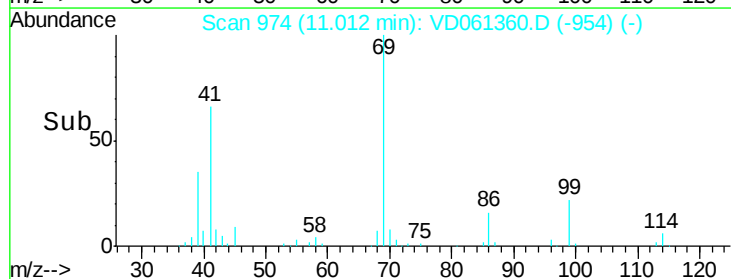
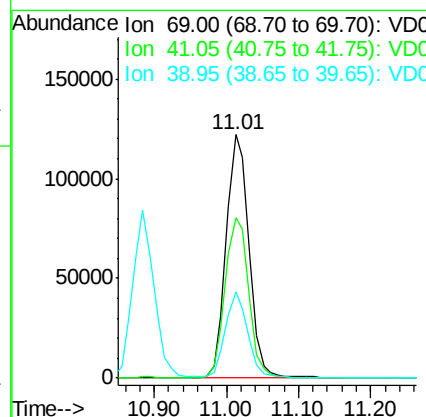
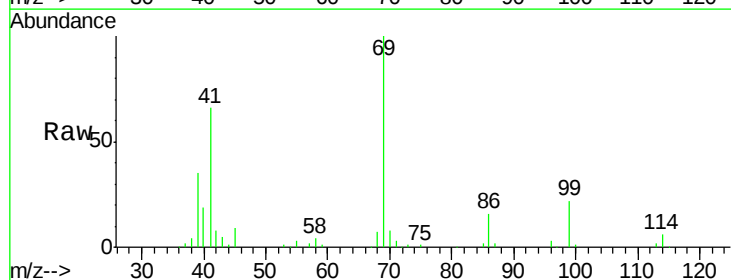
Manual Integrations
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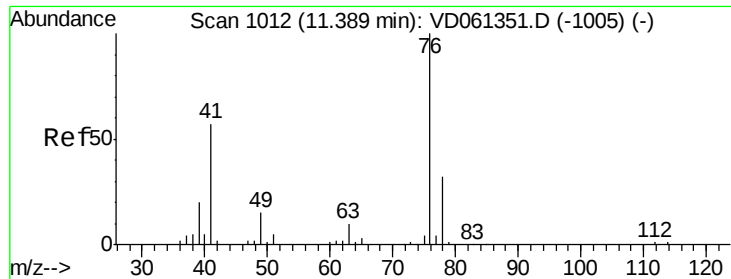
MMDadoda
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#56
Ethyl methacrylate
Concen: 59.161 ug/l
RT: 11.01 min Scan# 974
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion:	69	Resp:	267405
Ion	Ratio	Lower	Upper
69	100		
41	65.8	53.8	80.6
39	35.4	26.4	39.6





#57

1,3-Dichloropropane

Concen: 61.691 ug/l

RT: 11.39 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 76 Resp: 381515

Ion Ratio Lower Upper

76 100

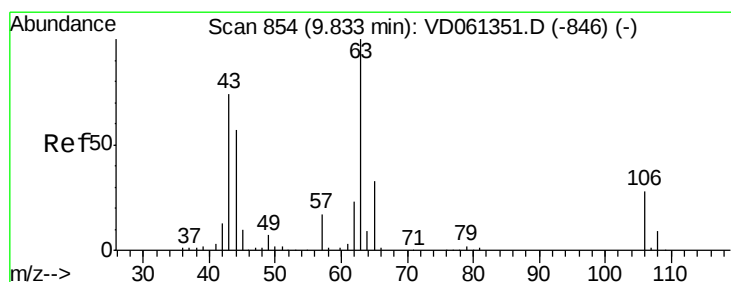
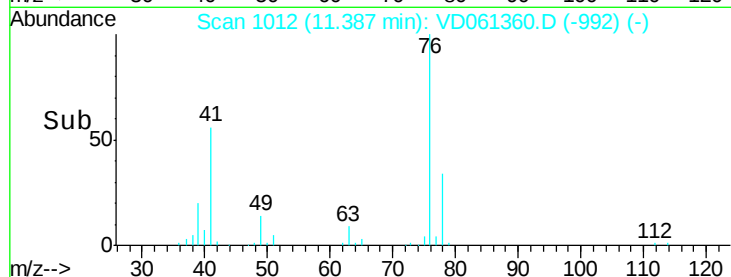
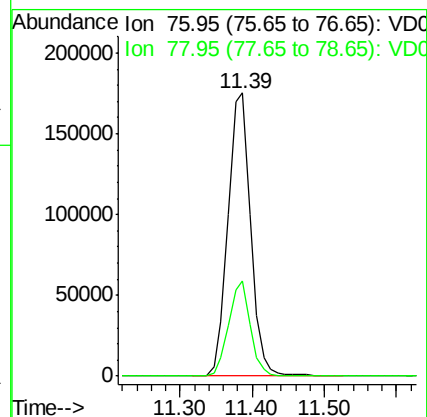
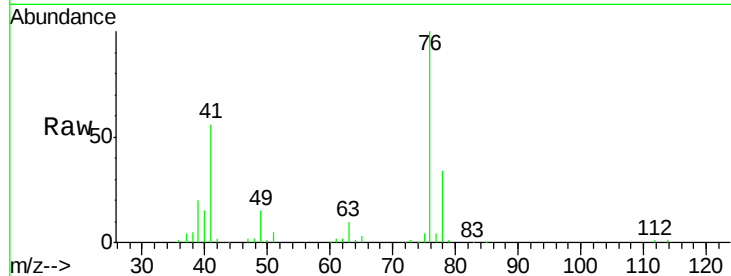
78 33.6 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

3/30/2019 12:16:33 AM



#58

2-Chloroethyl Vinyl ether

Concen: 311.522 ug/l

RT: 9.83 min Scan# 854

Delta R.T. -0.00 min

Lab File: VD061360.D

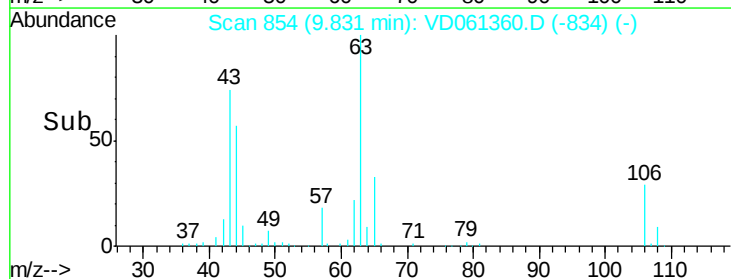
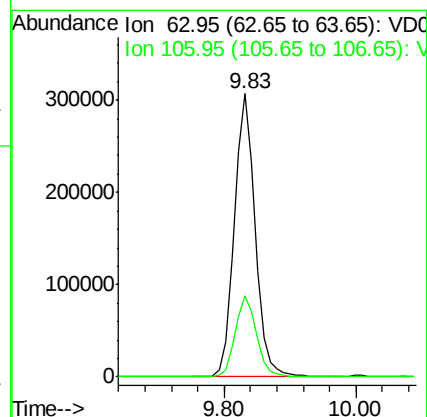
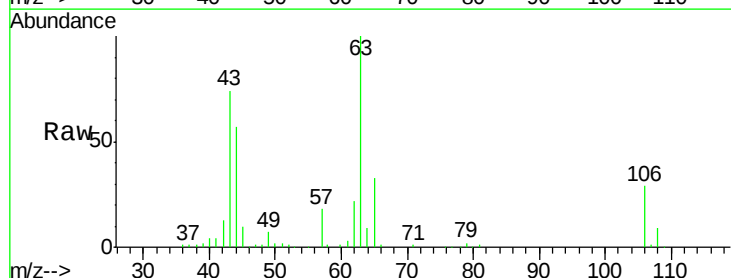
Acq: 27 Mar 2019 18:24

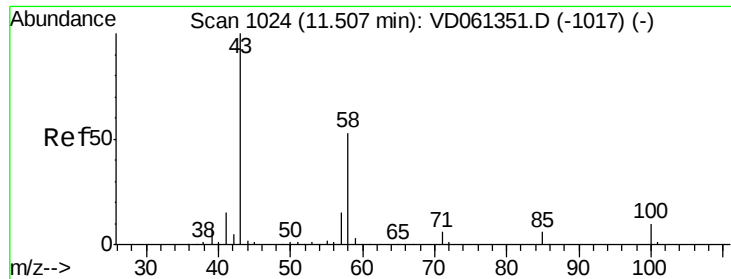
Tgt Ion: 63 Resp: 685725

Ion Ratio Lower Upper

63 100

106 28.7 22.4 33.6





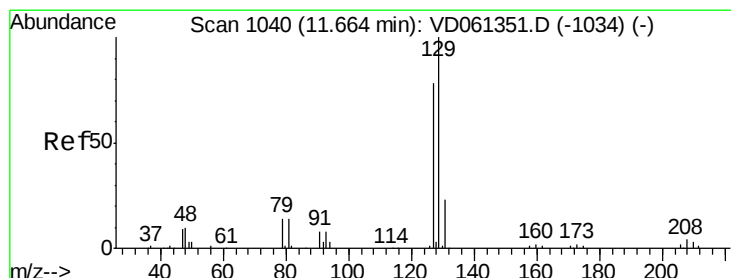
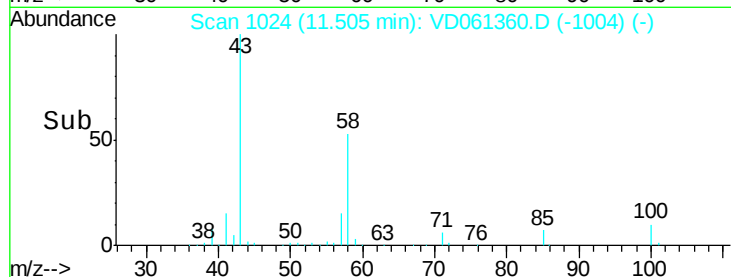
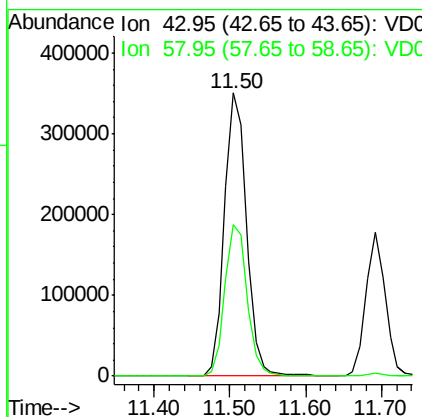
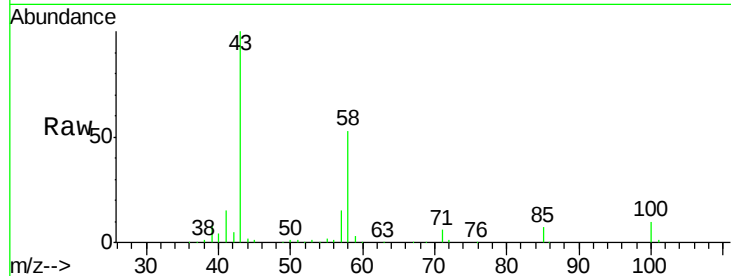
#59
2-Hexanone
Concen: 329.575 ug/l
RT: 11.50 min Scan# 1024
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion: 43 Resp: 710326
Ion Ratio Lower Upper
43 100
58 53.4 26.3 78.9

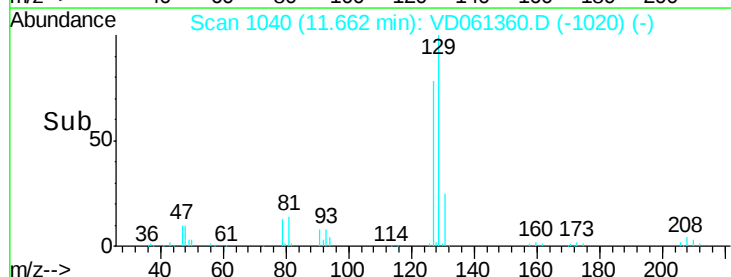
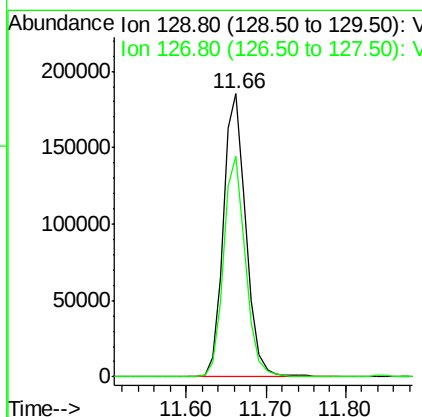
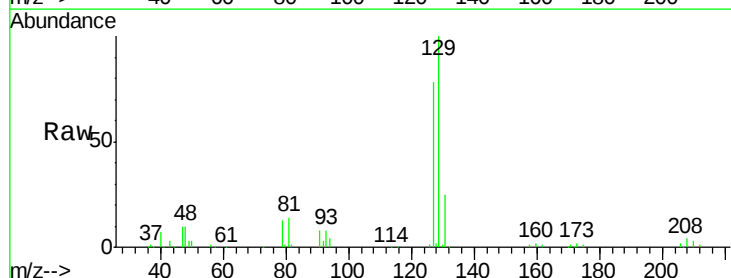
Manual Integrations
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#60
Dibromochloromethane
Concen: 56.818 ug/l
RT: 11.66 min Scan# 1040
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion: 129 Resp: 368541
Ion Ratio Lower Upper
129 100
127 77.9 39.0 116.9





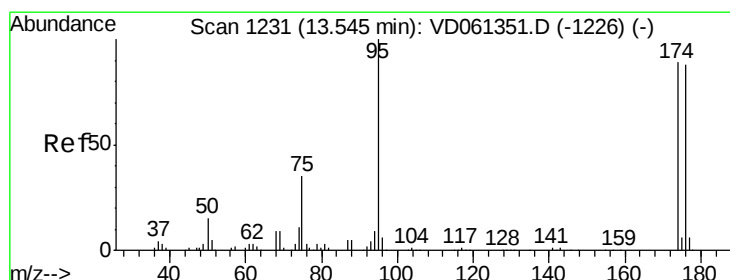
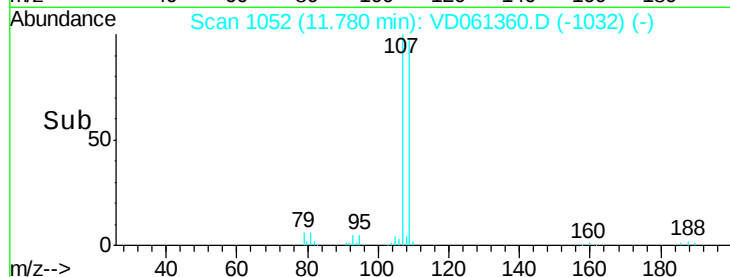
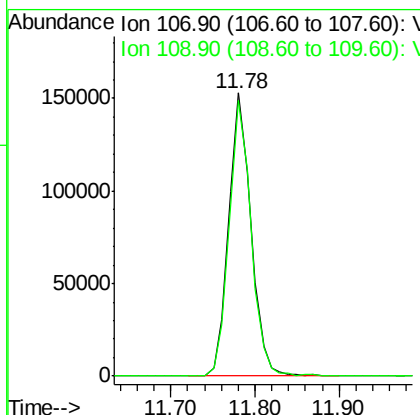
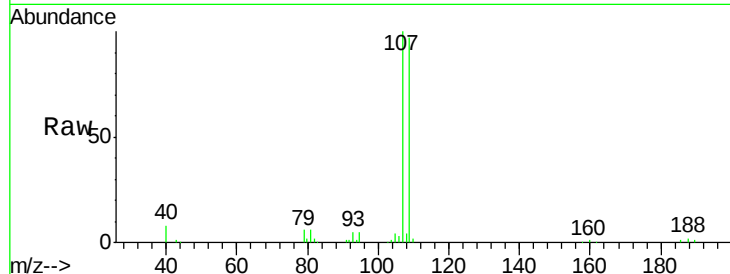
#61
 1,2-Dibromoethane
 Concen: 57.626 ug/l
 RT: 11.78 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MSD

Tgt Ion: 107 Resp: 280757
 Ion Ratio Lower Upper
 107 100
 109 97.3 76.6 114.8

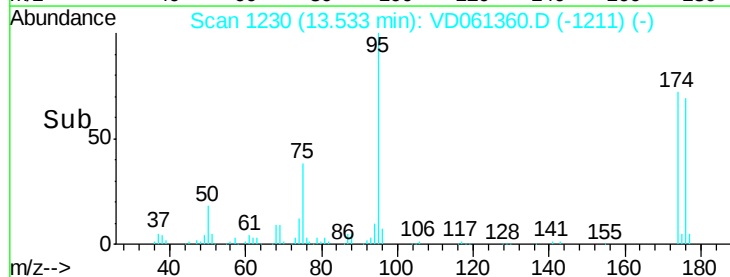
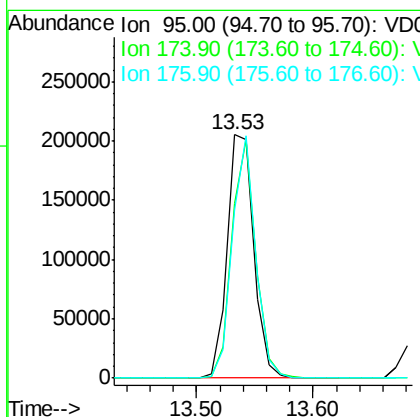
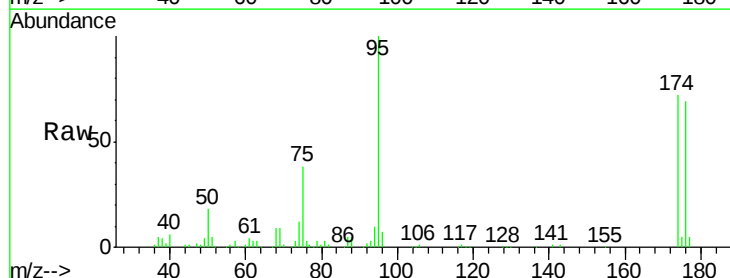
Manual Integrations
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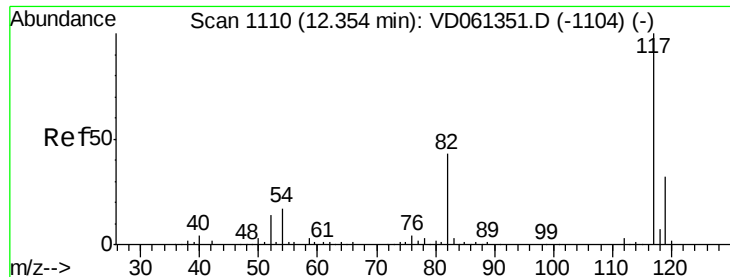
MMDadoda
 3/30/2019 12:16:33 AM



#62
 4-Bromofluorobenzene
 Concen: 57.626 ug/l
 RT: 13.53 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Tgt Ion: 95 Resp: 325275
 Ion Ratio Lower Upper
 95 100
 174 71.6 0.0 178.0
 176 69.0 0.0 175.0





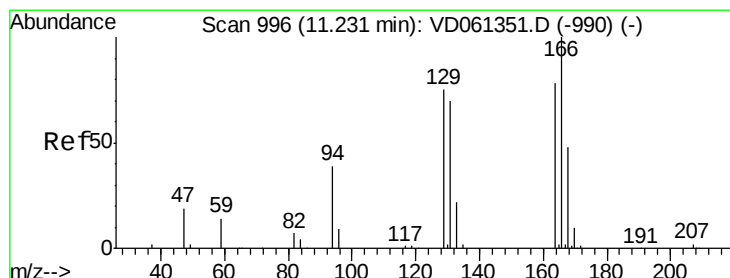
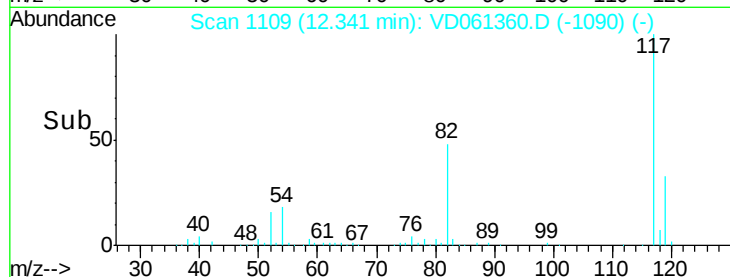
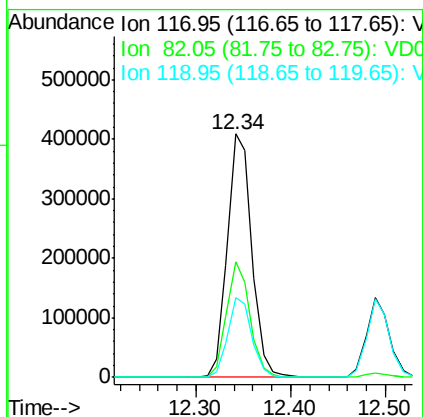
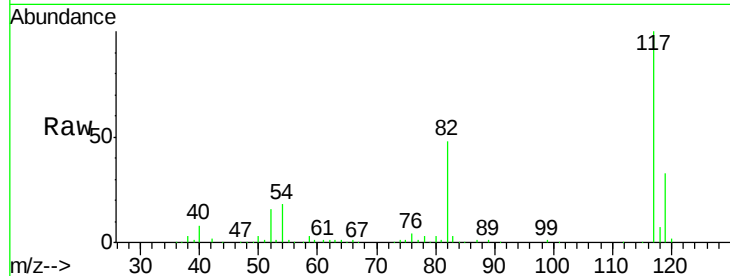
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion:117 Resp: 730038
Ion Ratio Lower Upper
117 100
82 47.5 34.4 51.6
119 32.7 25.8 38.6

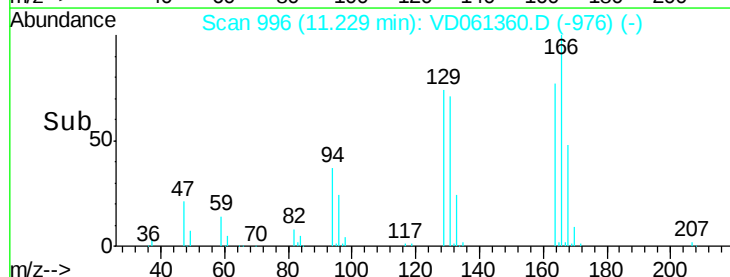
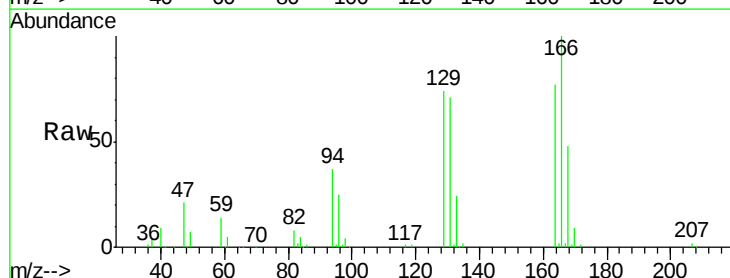
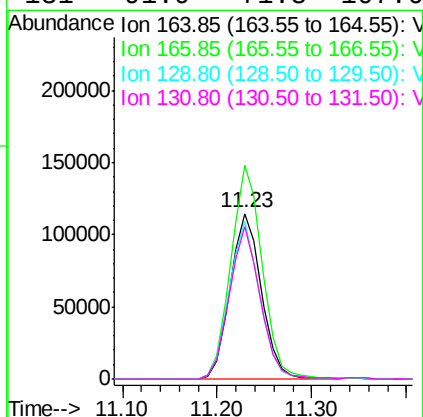
Manual Integrations
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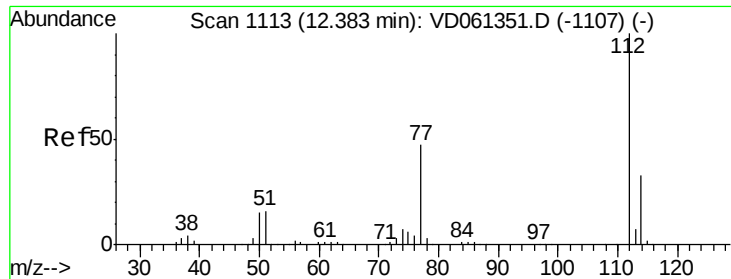
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#64
Tetrachloroethene
Concen: 45.749 ug/l
RT: 11.23 min Scan# 996
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion:164 Resp: 262118
Ion Ratio Lower Upper
164 100
166 129.1 102.4 153.6
129 95.2 76.8 115.2
131 91.9 71.8 107.6





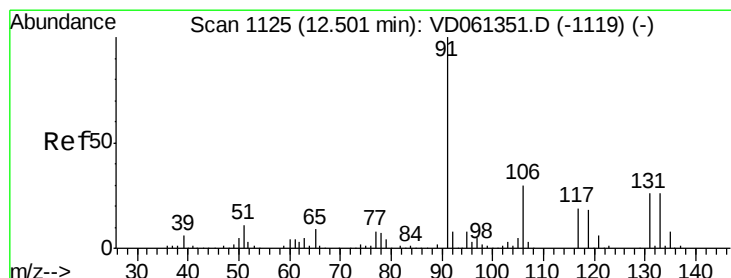
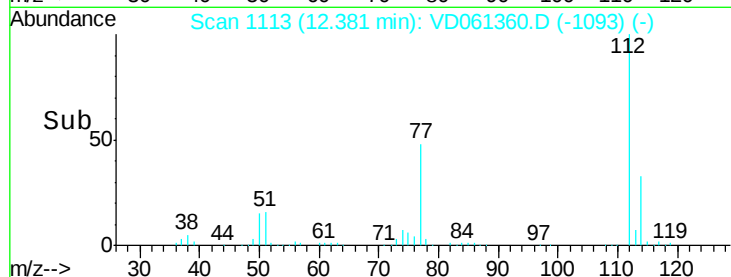
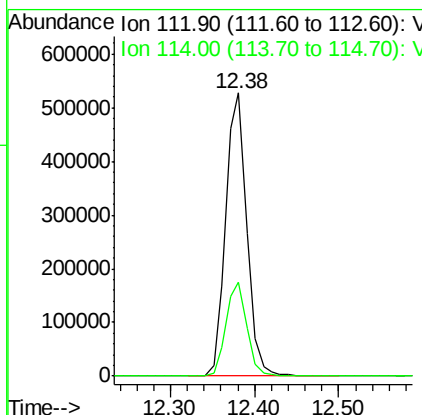
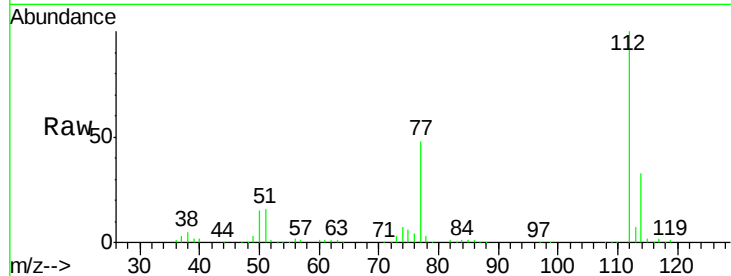
#65
Chlorobenzene
Concen: 61.416 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion:112 Resp: 916297
Ion Ratio Lower Upper
112 100
114 33.1 26.6 39.8

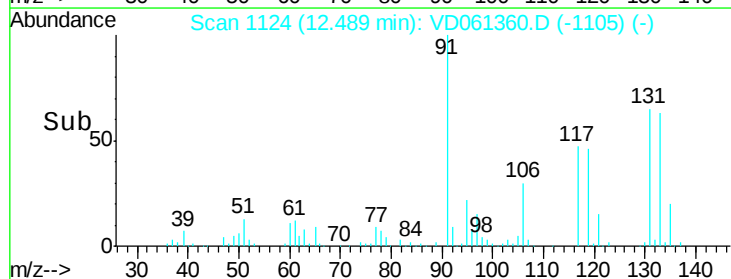
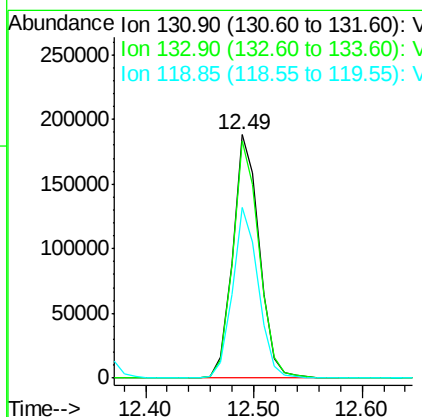
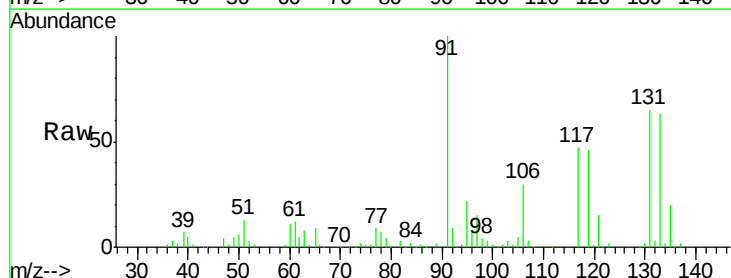
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#66
1,1,1,2-Tetrachloroethane
Concen: 55.280 ug/l
RT: 12.49 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion:131 Resp: 319336
Ion Ratio Lower Upper
131 100
133 97.2 49.4 148.2
119 70.2 34.1 102.2





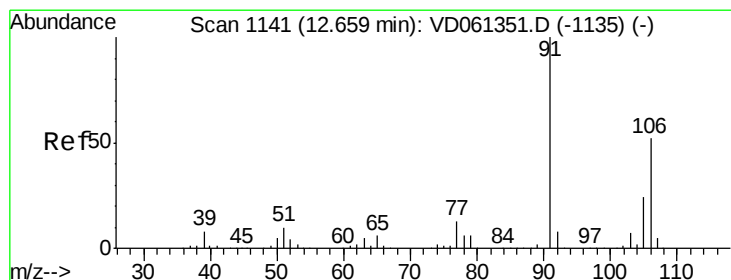
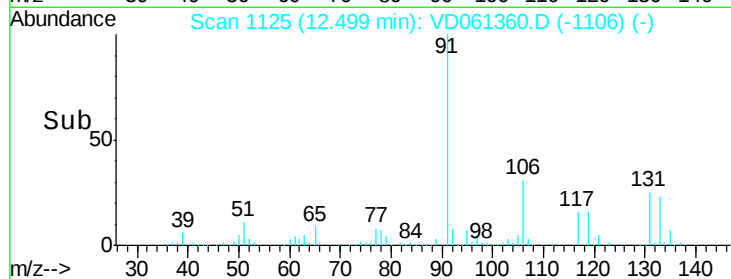
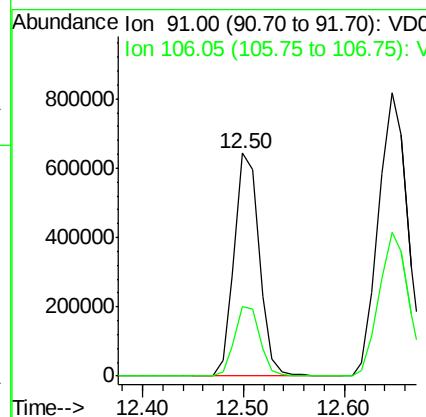
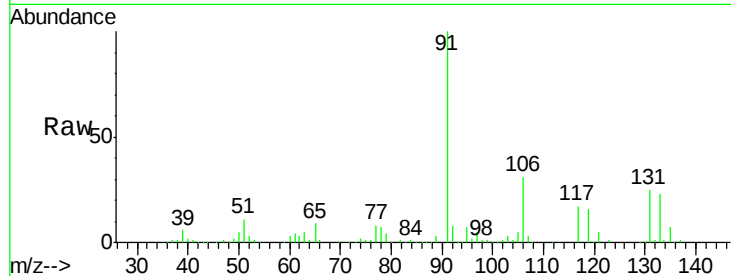
#67
Ethyl Benzene
Concen: 48.914 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion: 91 Resp: 1113904
Ion Ratio Lower Upper
91 100
106 31.3 26.1 39.1

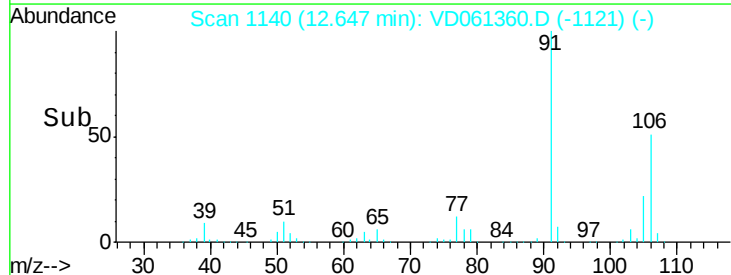
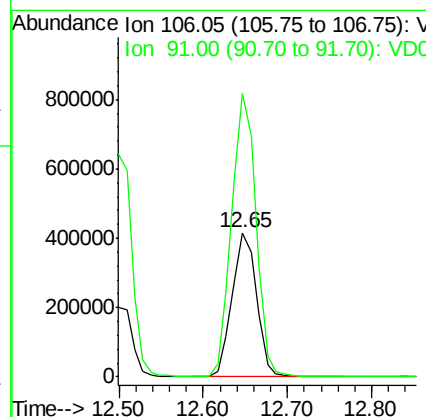
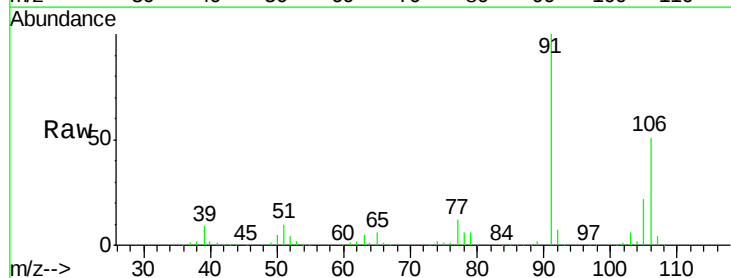
Manual Integrations
APPROVED

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#68
m/p-Xylenes
Concen: 97.223 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion: 106 Resp: 838687
Ion Ratio Lower Upper
106 100
91 196.5 153.1 229.7





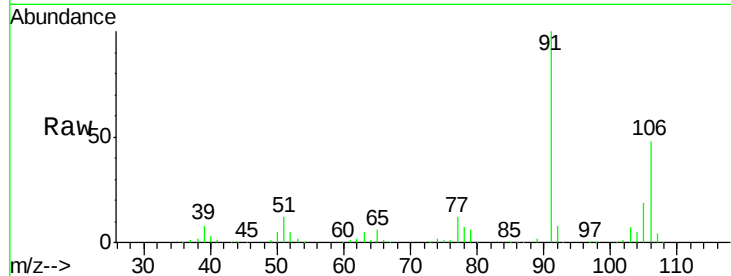
#69
o-Xylene
Concen: 47.022 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

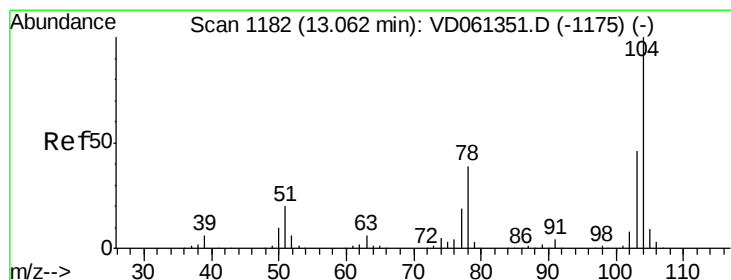
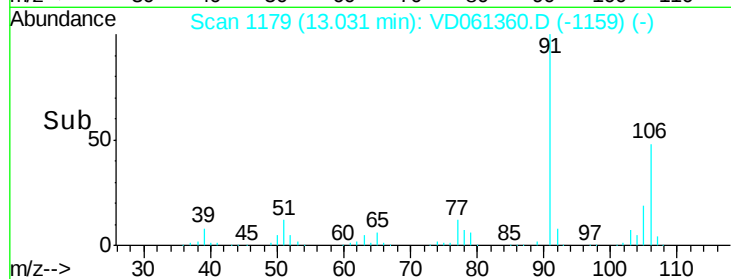
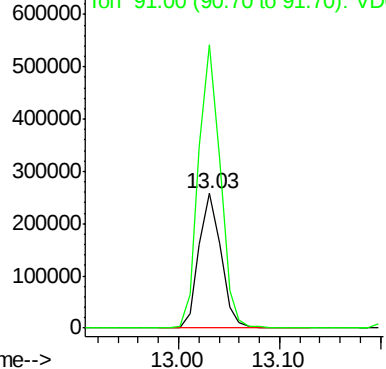
Tgt Ion:106 Resp: 393629
Ion Ratio Lower Upper
106 100
91 210.4 103.8 311.3

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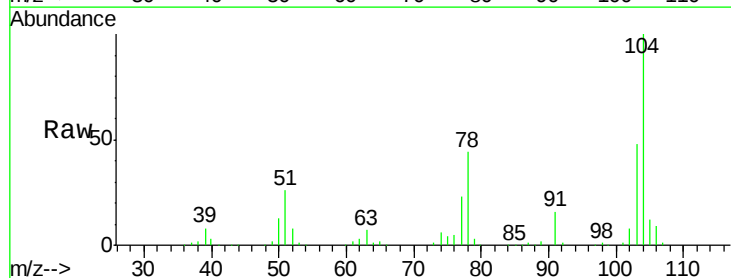


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

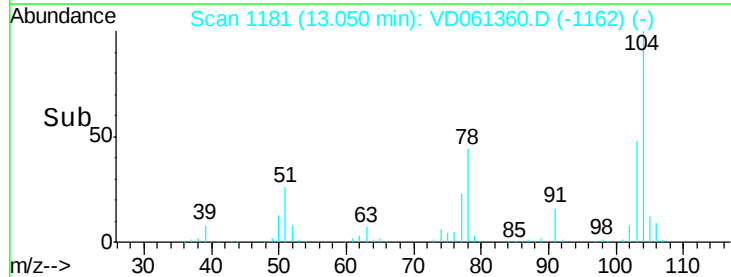
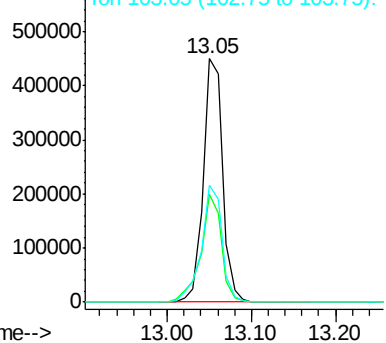


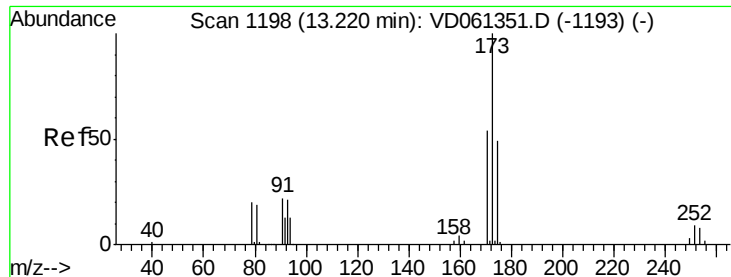
#70
Styrene
Concen: 49.199 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion:104 Resp: 717941
Ion Ratio Lower Upper
104 100
78 44.2 31.0 46.6
103 48.0 37.0 55.4



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





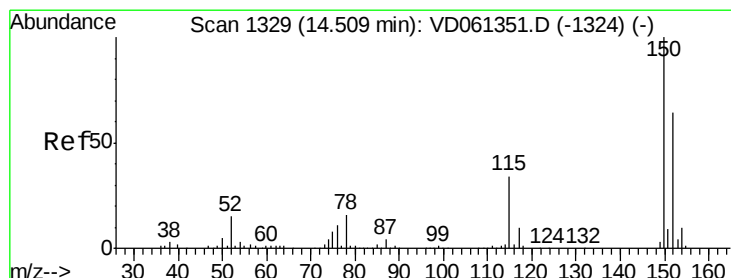
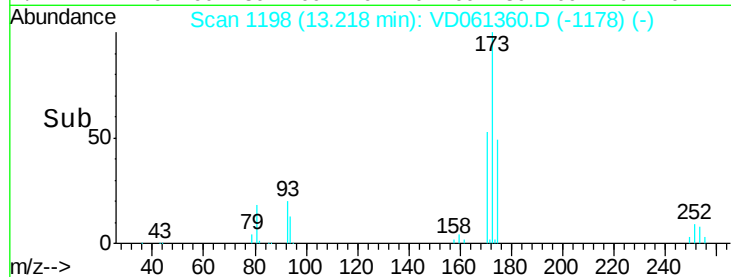
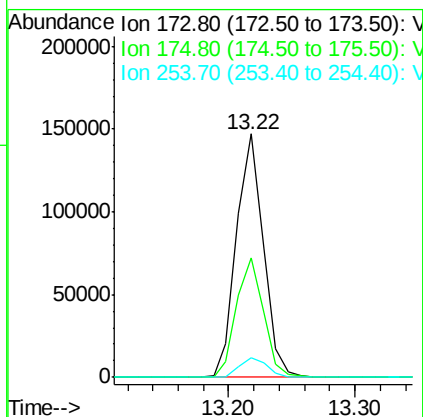
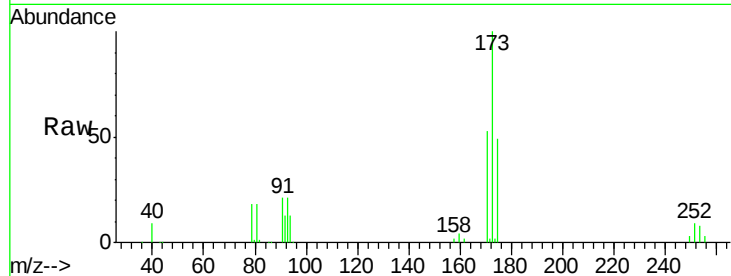
#71
Bromoform
Concen: 59.292 ug/l
RT: 13.22 min Scan# 1198
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	217120		
175	49.1	24.6	73.8	
254	7.8	6.6	10.0	

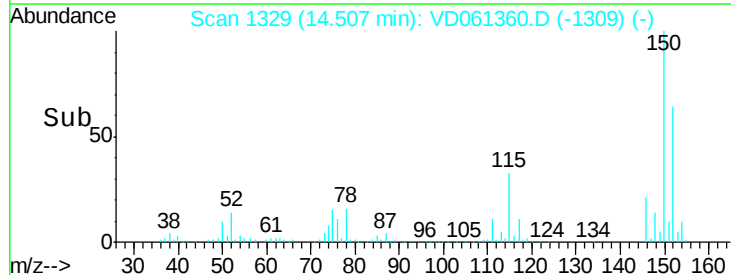
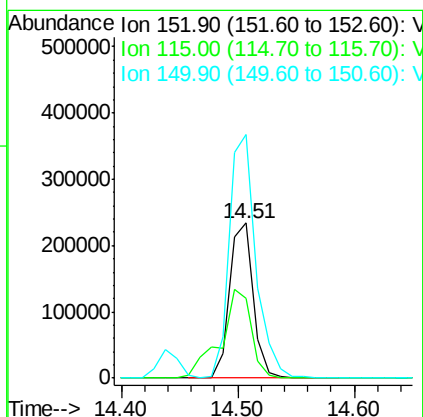
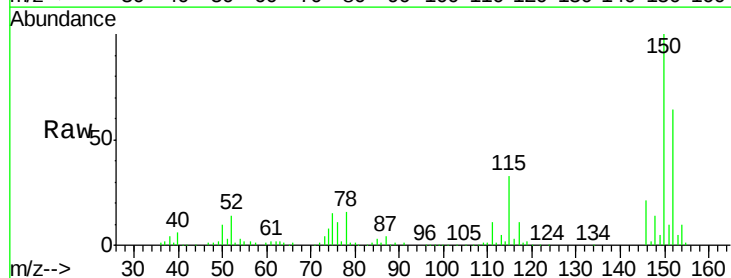
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	327811		
115	51.8	26.9	80.6	
150	157.1	0.0	318.0	





#73

Isopropylbenzene

Concen: 45.736 ug/l

RT: 13.38 min Scan# 1215

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 105 Resp: 1043492

Ion Ratio Lower Upper

105 100

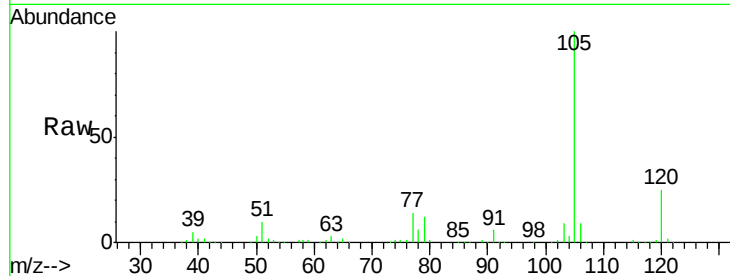
120 25.2 12.8 38.3

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

800000

600000

400000

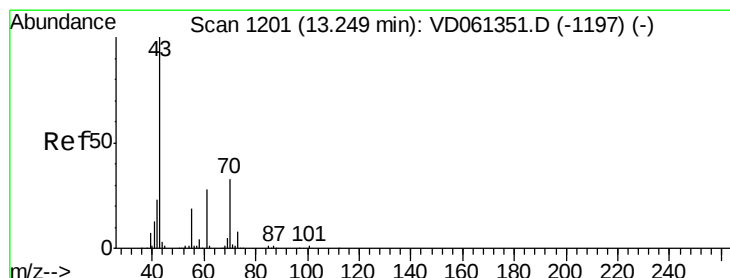
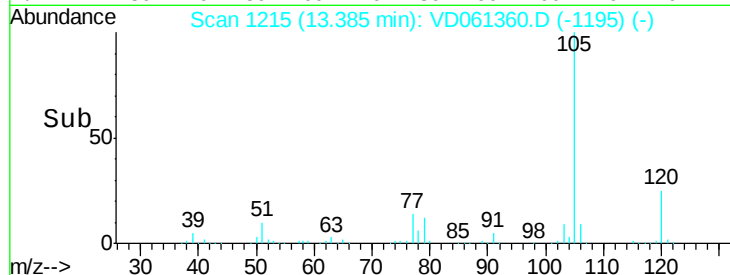
200000

0

13.38

13.30 13.40 13.50

Time-->



#74

N-ethyl acetate

Concen: 55.056 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion: 43 Resp: 349918

Ion Ratio Lower Upper

43 100

70 32.7 26.6 40.0

55 19.0 15.4 23.2

61 28.0 22.2 33.4

Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

400000

300000

200000

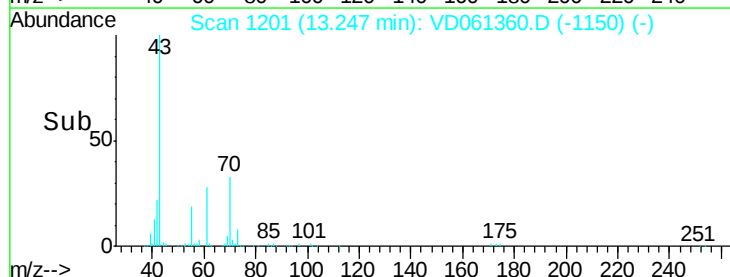
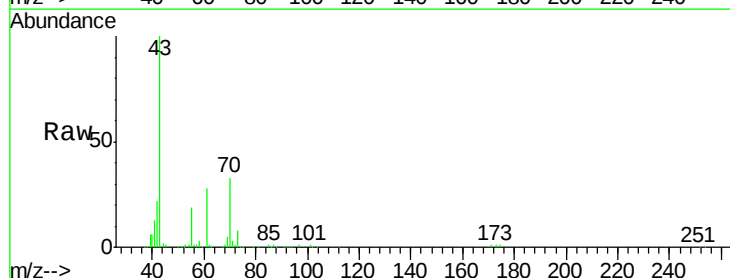
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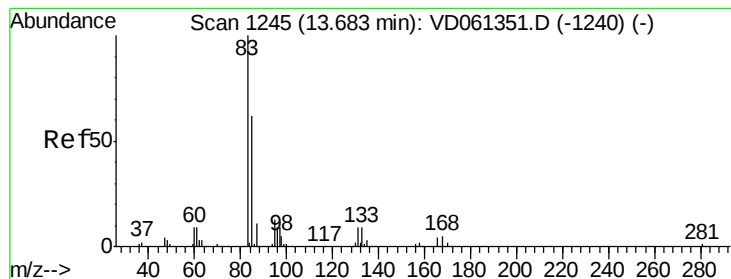
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13.25

13.20 13.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 58.883 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

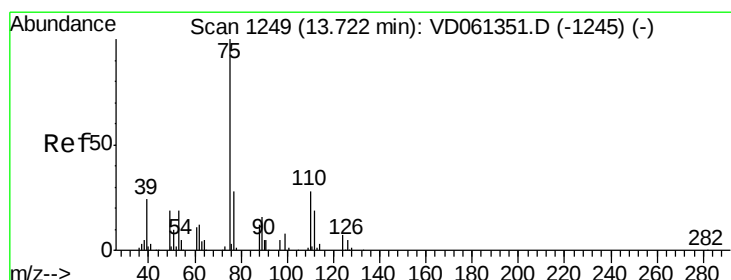
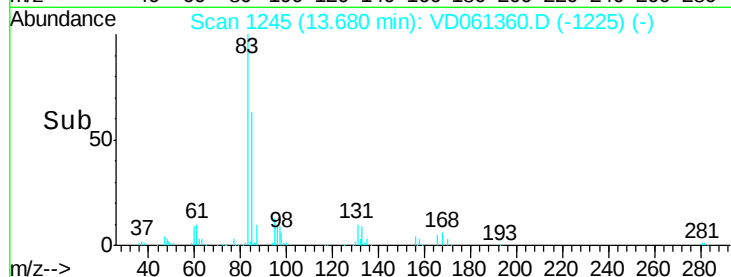
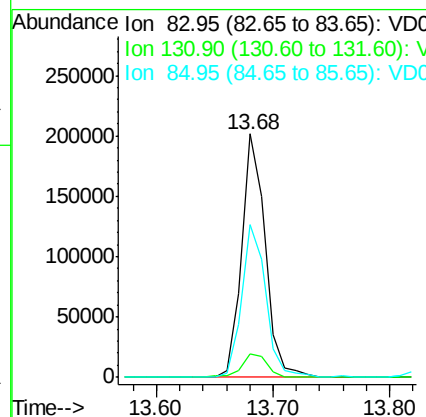
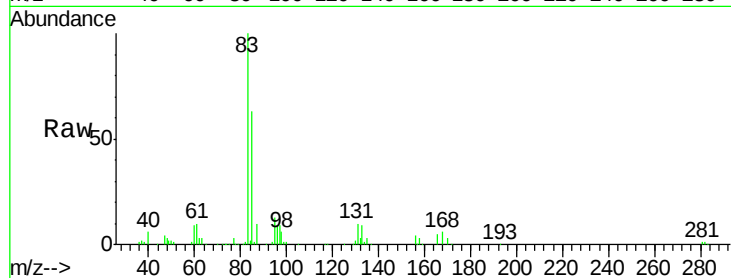
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	83	Resp:	283396
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.3	13.1
85	62.6	31.2	93.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 60.354 ug/l

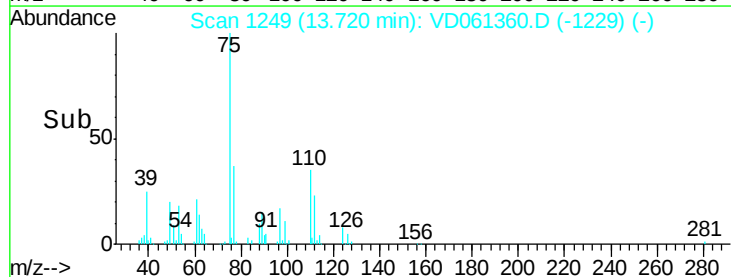
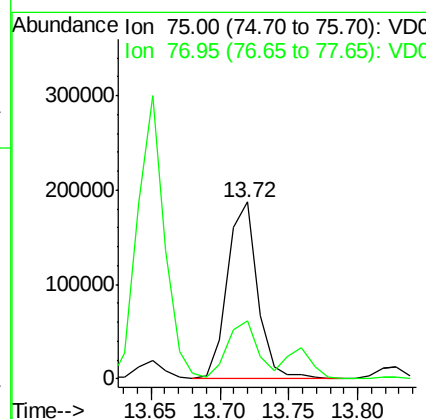
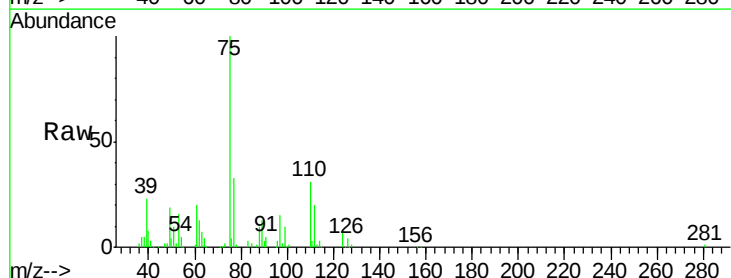
RT: 13.72 min Scan# 1249

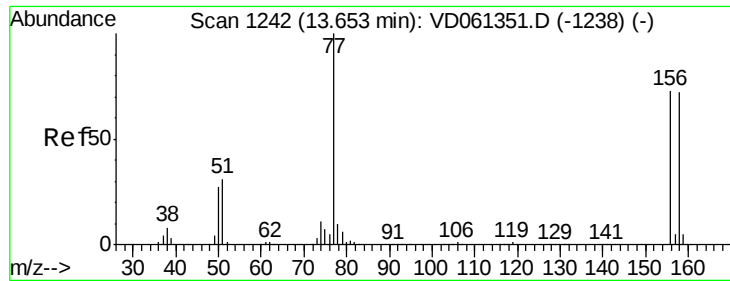
Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Tgt Ion:	75	Resp:	285796
Ion Ratio	Lower	Upper	
75	100		
77	32.8	16.2	48.5





#77

Bromobenzene

Concen: 49.198 ug/l

RT: 13.65 min Scan# 1242

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

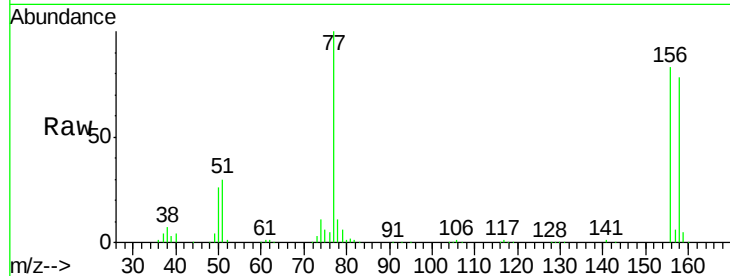
ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion:	156	Resp:	332762
Ion Ratio	Lower	Upper	
156	100		
77	120.6	68.5	205.6
158	94.5	49.1	147.3

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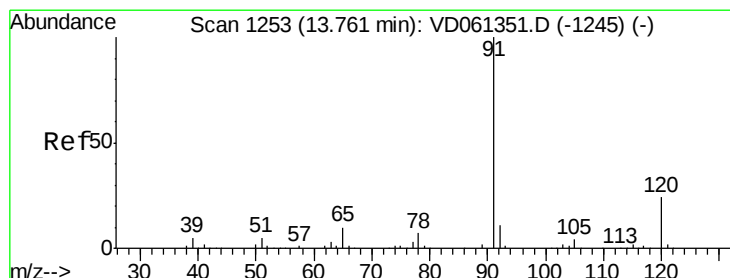
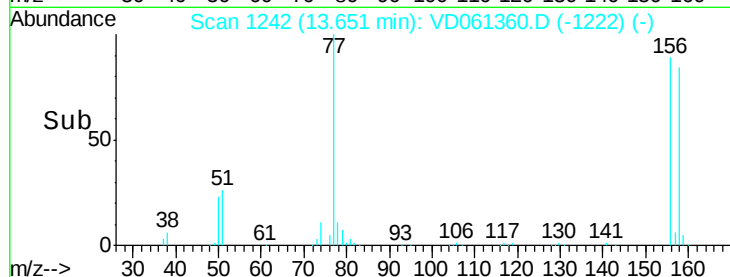
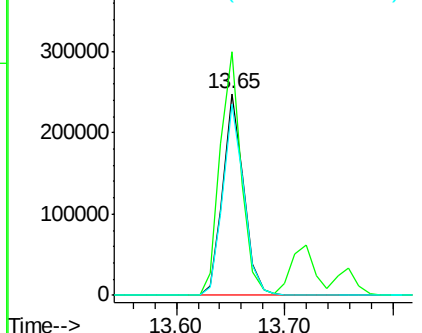
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 46.266 ug/l

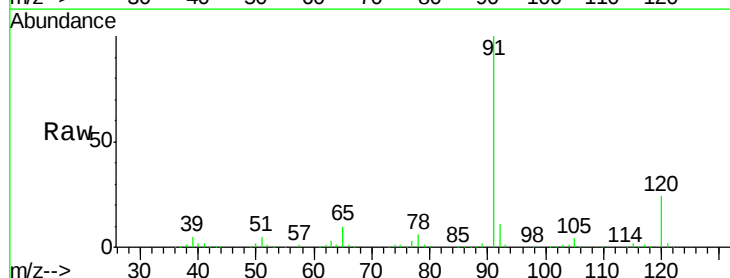
RT: 13.76 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VD061360.D

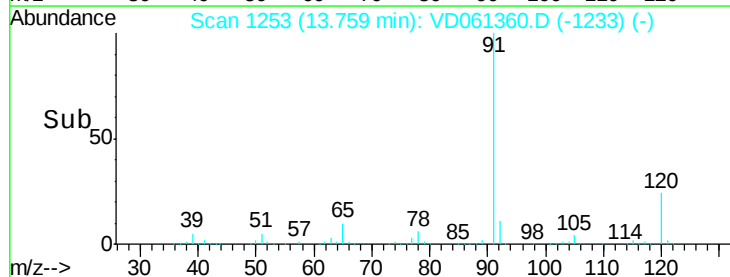
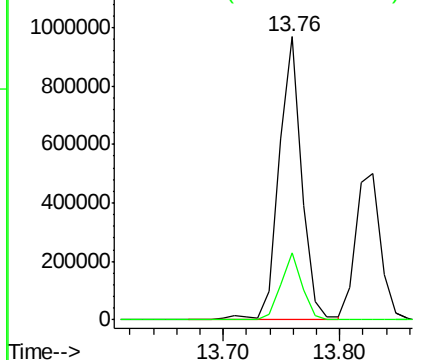
Acq: 27 Mar 2019 18:24

Tgt Ion:	91	Resp:	1291769
Ion Ratio	Lower	Upper	
91	100		
120	23.6	11.8	35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 49.312 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD061360.D

Acq: 27 Mar 2019 18:24

Instrument :

MSVOA_D

ClientSampleId :

WP022SB431-190320-(21-23)MSD

Tgt Ion: 91 Resp: 747578

Ion Ratio Lower Upper

91 100

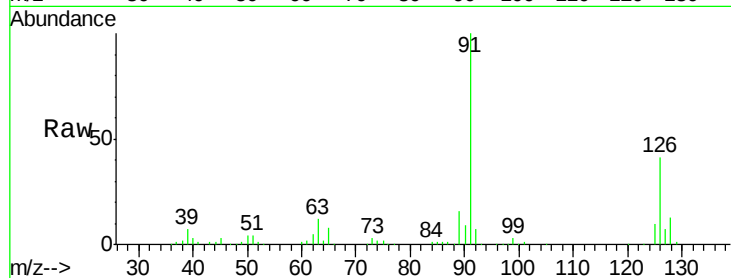
126 41.5 19.4 58.2

Manual Integrations

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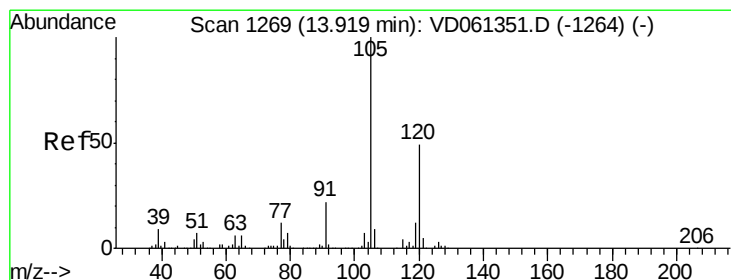
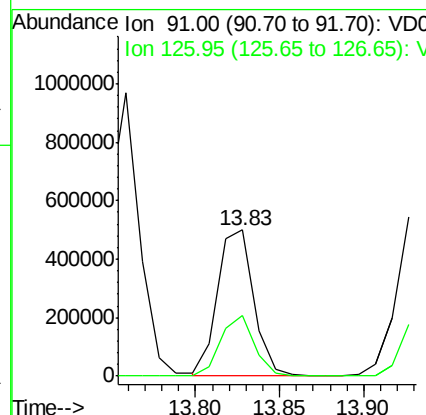
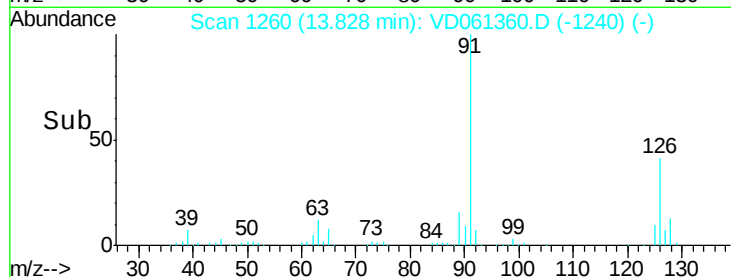
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Abundance Ion 91.00 (90.70 to 91.70): VD061351.D (-1257) (-)

Ion 125.95 (125.65 to 126.65): VD061351.D (-1257) (-)



#80

1,3,5-Trimethylbenzene

Concen: 50.201 ug/l

RT: 13.92 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VD061360.D

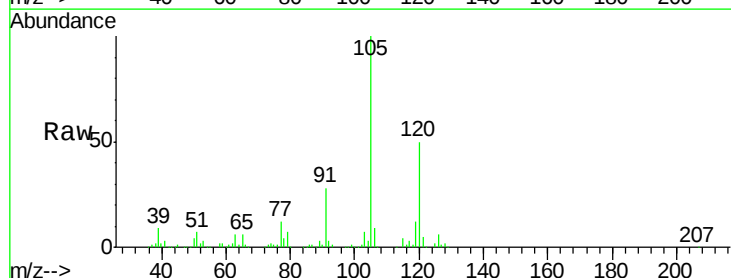
Acq: 27 Mar 2019 18:24

Tgt Ion: 105 Resp: 888656

Ion Ratio Lower Upper

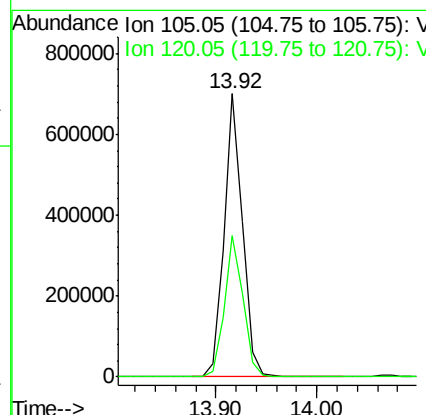
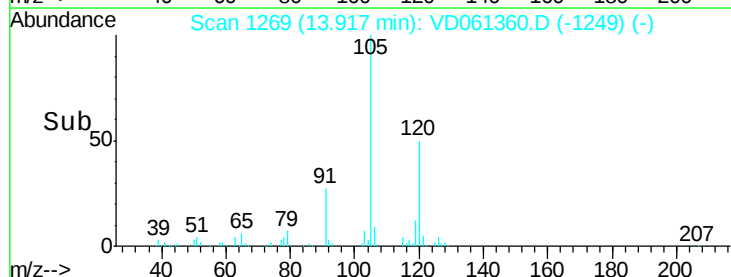
105 100

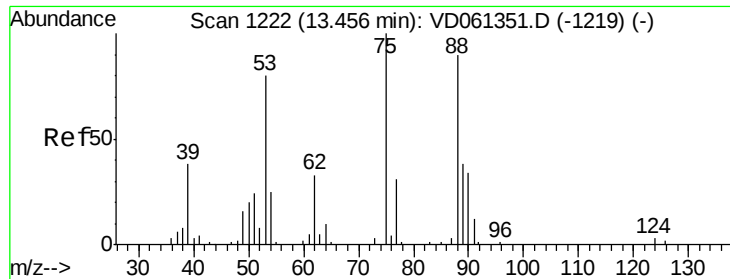
120 49.9 24.6 73.6



Abundance Ion 105.05 (104.75 to 105.75): VD061351.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD061351.D (-1264) (-)





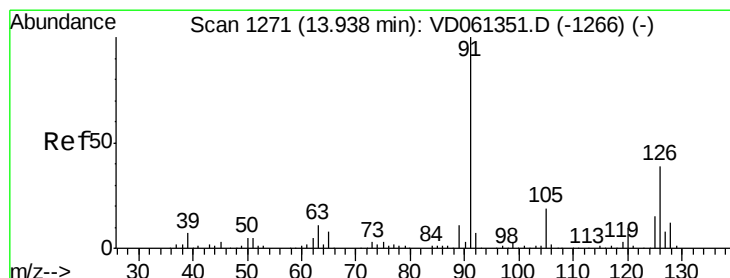
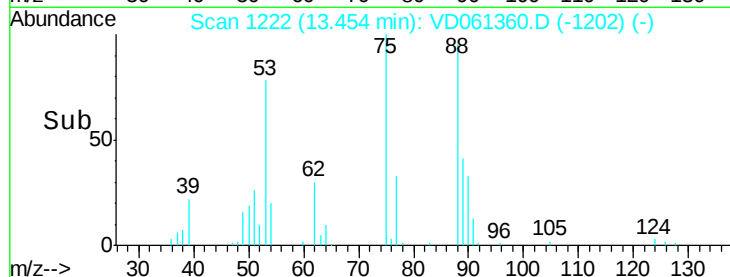
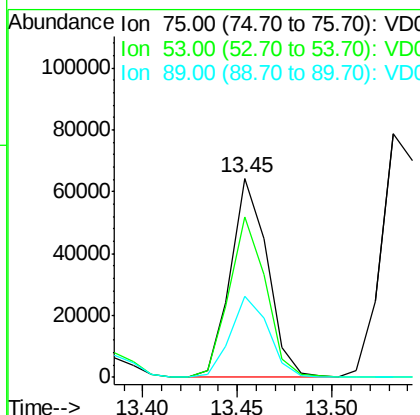
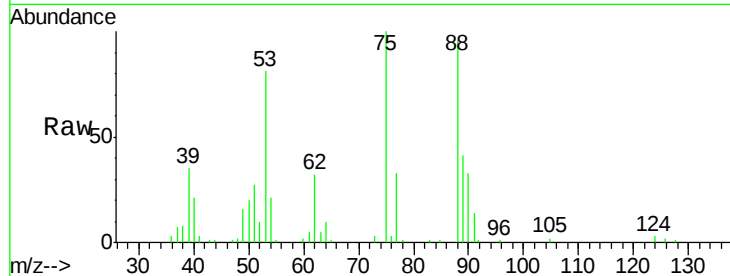
#81
trans-1,4-Dichloro-2-butene
Concen: 59.945 ug/l
RT: 13.45 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Lower	Upper
75	100		
53	80.5	63.8	95.8
89	40.9	30.5	45.7

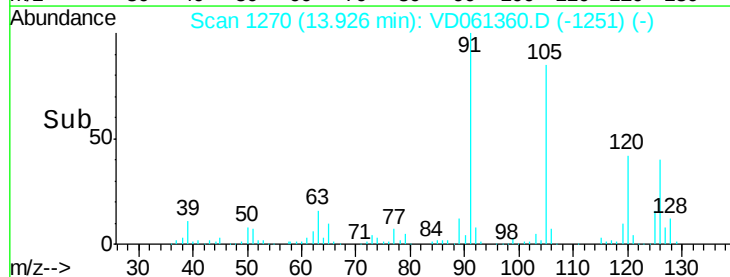
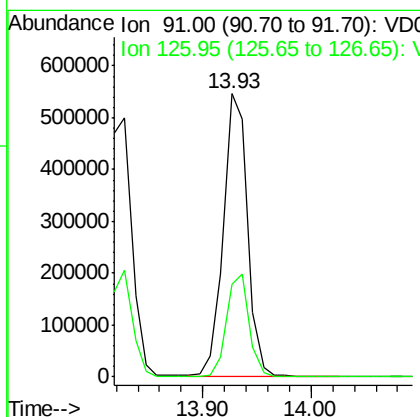
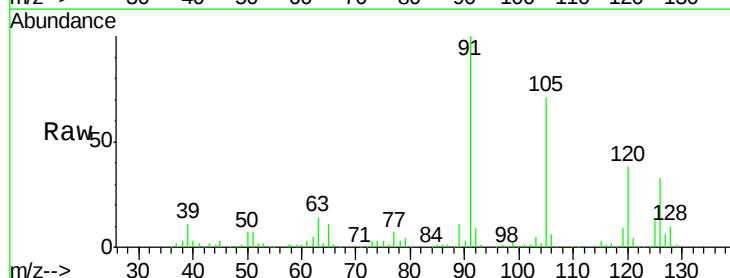
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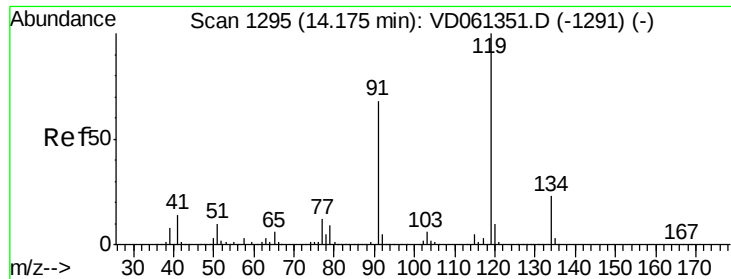
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#82
4-Chlorotoluene
Concen: 51.288 ug/l
RT: 13.93 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.7	19.6	58.8





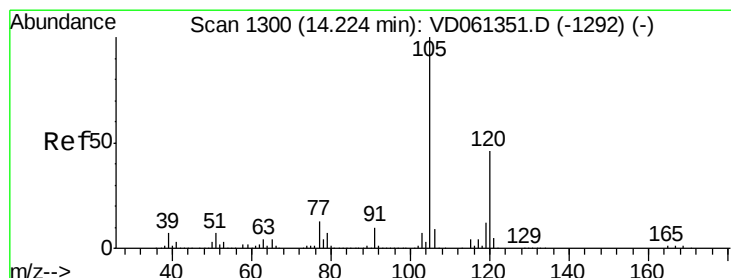
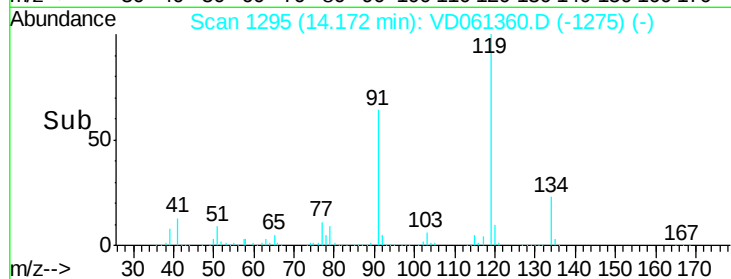
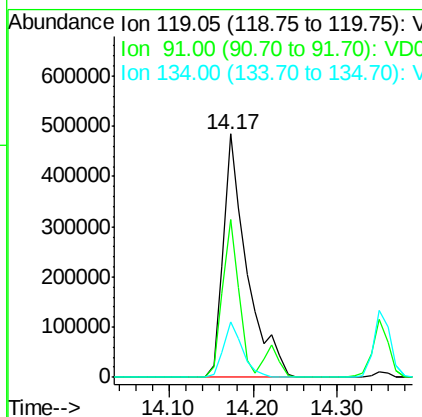
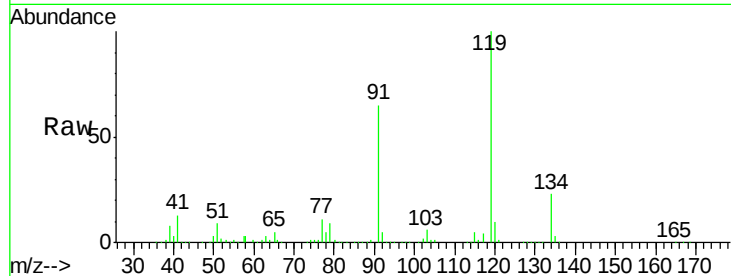
#83
tert-Butylbenzene
Concen: 43.086 ug/l
RT: 14.17 min Scan# 1295
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	953171		
91	64.7	34.1	102.3	
134	22.9	11.6	34.8	

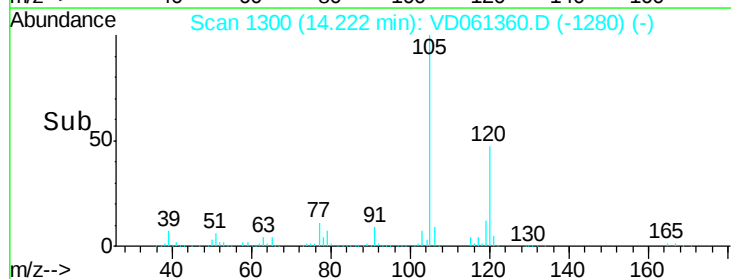
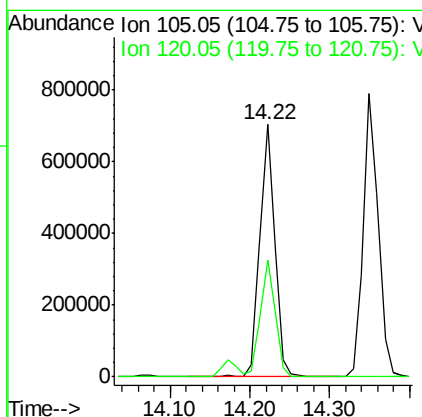
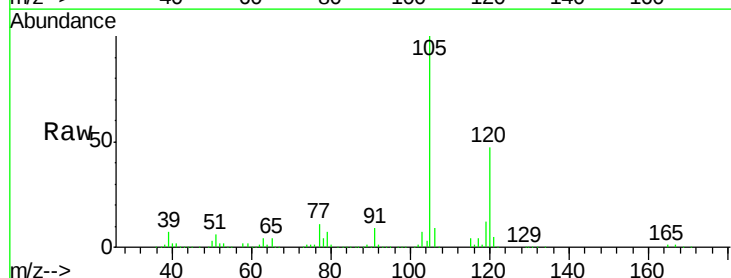
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#84
1,2,4-Trimethylbenzene
Concen: 46.560 ug/l
RT: 14.22 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	892303		
120	46.5	22.8	68.4	





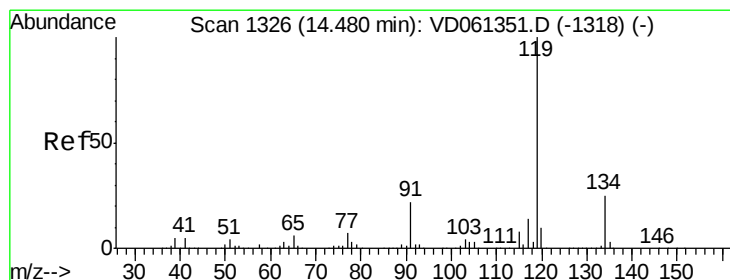
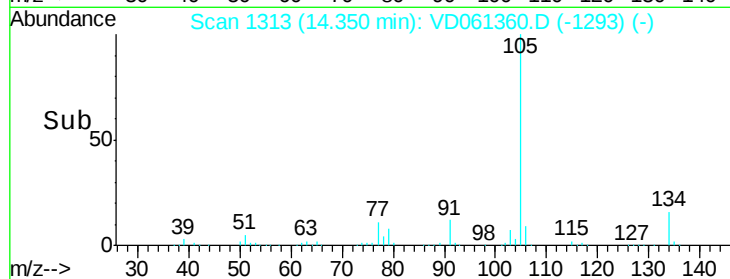
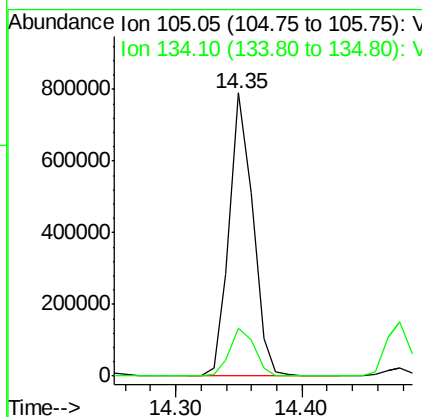
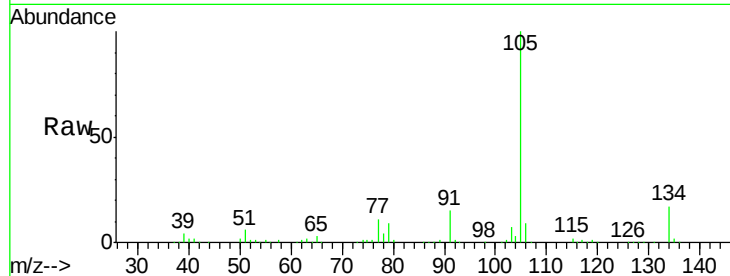
#85
 sec-Butylbenzene
 Concen: 43.578 ug/l
 RT: 14.35 min Scan# 1313
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MSD

Tgt Ion:105 Resp: 1024155
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.7 26.1

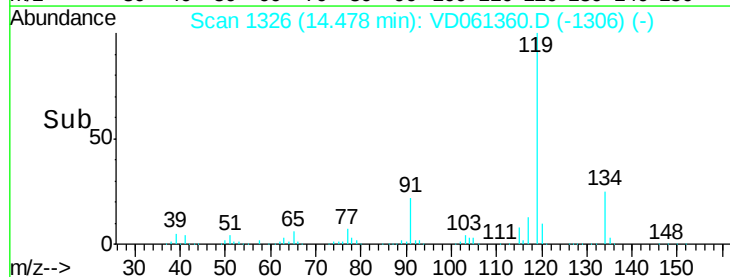
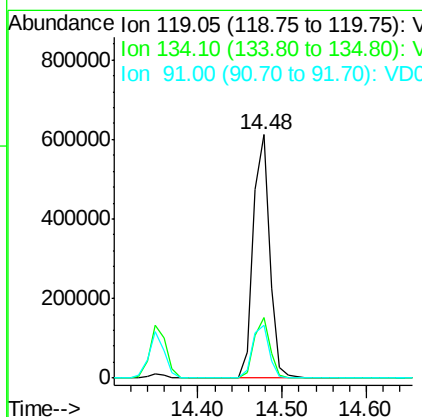
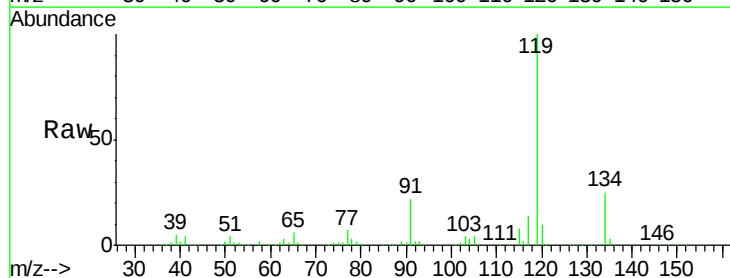
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#86
 p-Isopropyltoluene
 Concen: 42.197 ug/l
 RT: 14.48 min Scan# 1326
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Tgt Ion:119 Resp: 838580
 Ion Ratio Lower Upper
 119 100
 134 25.0 12.3 36.8
 91 21.6 11.1 33.1





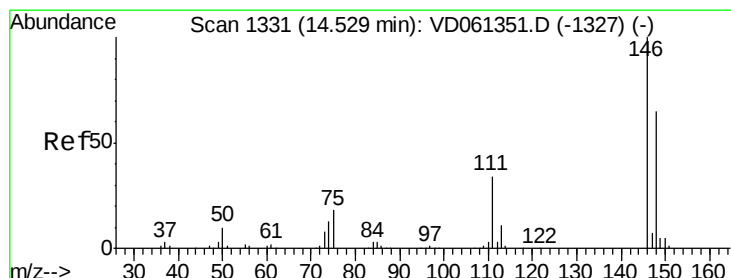
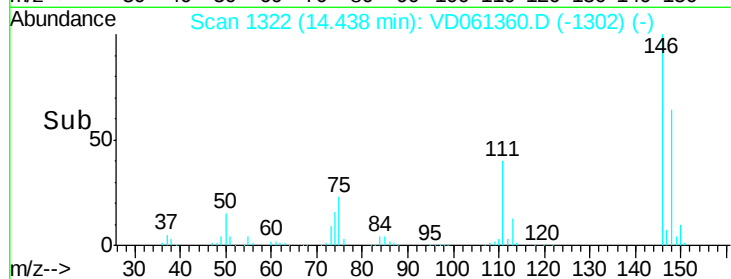
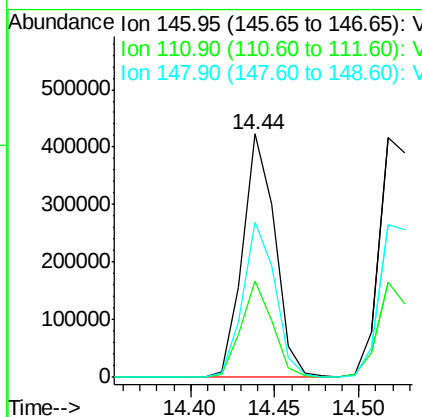
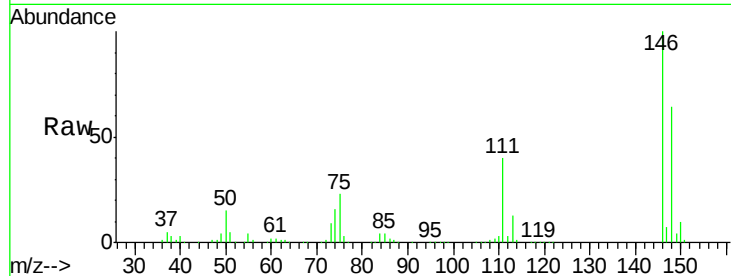
#87
 1,3-Dichlorobenzene
 Concen: 49.251 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	564113		
111	39.7	20.6	61.9	
148	63.8	31.1	93.3	

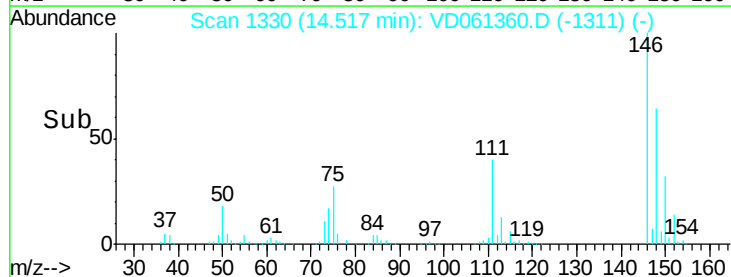
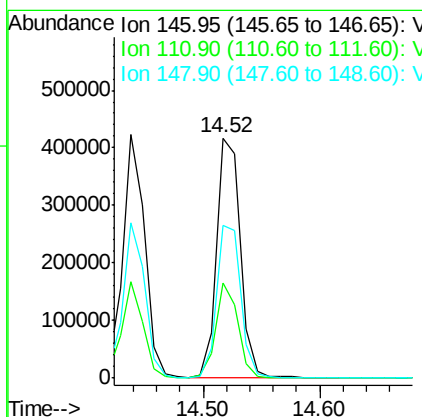
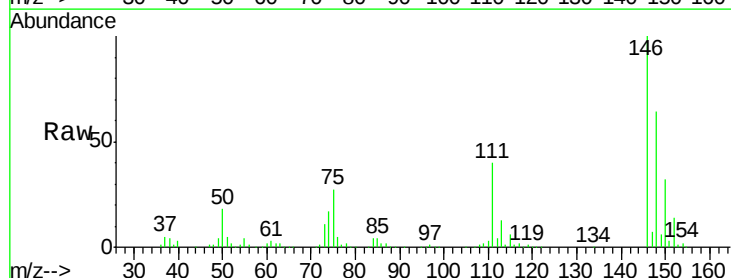
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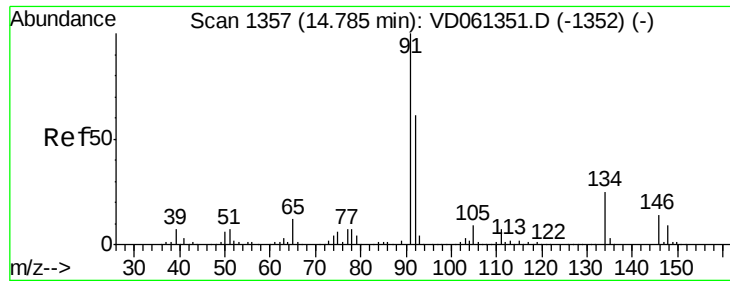
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#88
 1,4-Dichlorobenzene
 Concen: 52.465 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	586015		
111	39.7	16.8	50.4	
148	63.5	32.6	98.0	





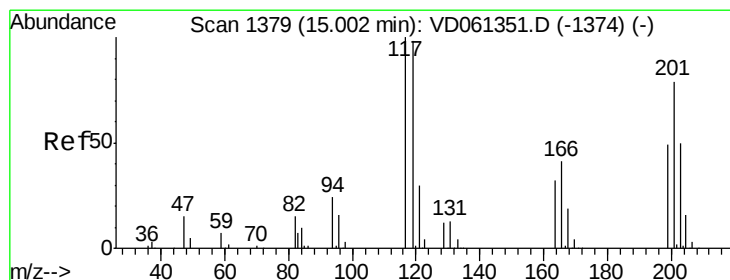
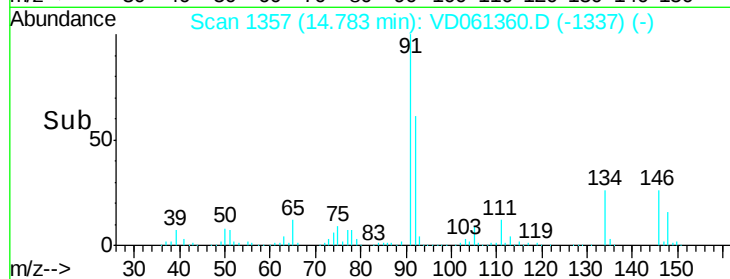
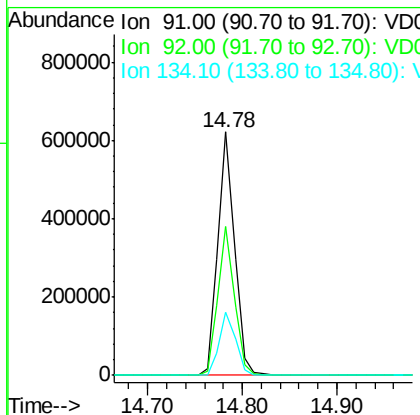
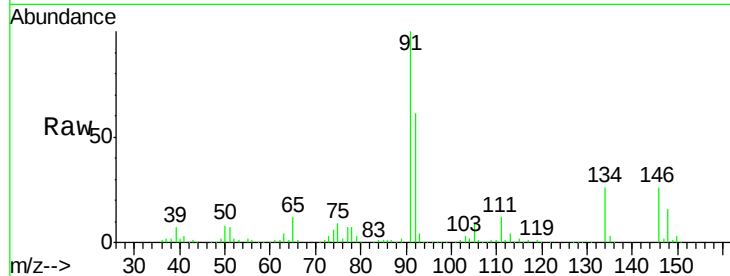
#89
n-Butylbenzene
Concen: 41.938 ug/l
RT: 14.78 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	764966		
92	61.1	30.3	91.0	
134	26.2	12.4	37.0	

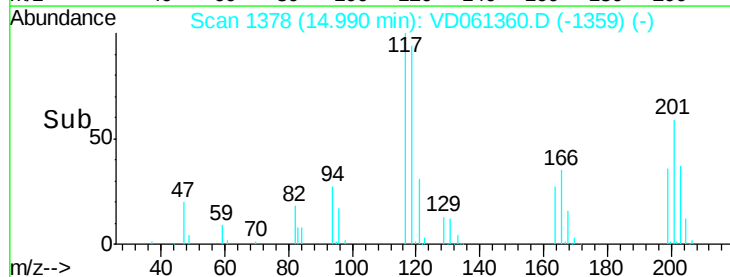
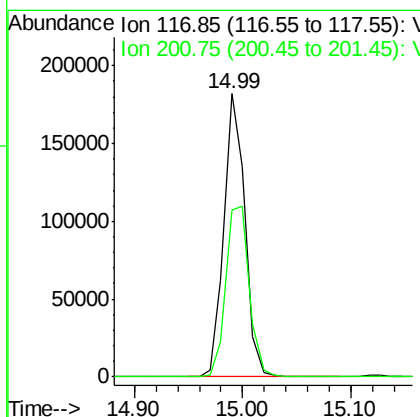
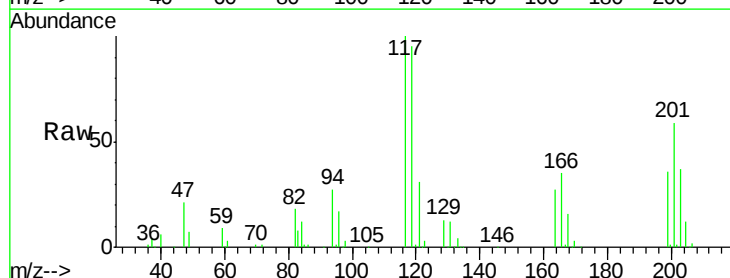
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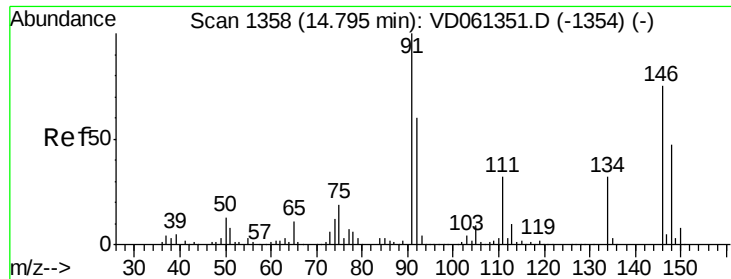
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#90
Hexachloroethane
Concen: 43.725 ug/l
RT: 14.99 min Scan# 1378
Delta R.T. -0.01 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	245491		
201	58.9	39.6	119.0	





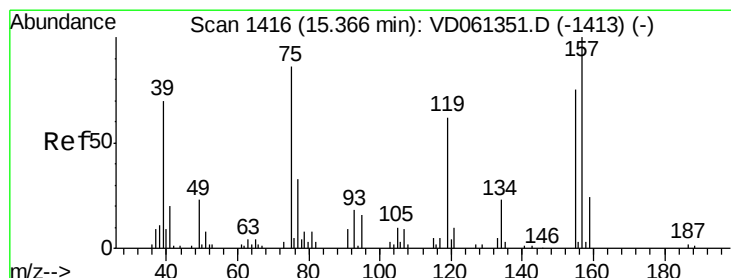
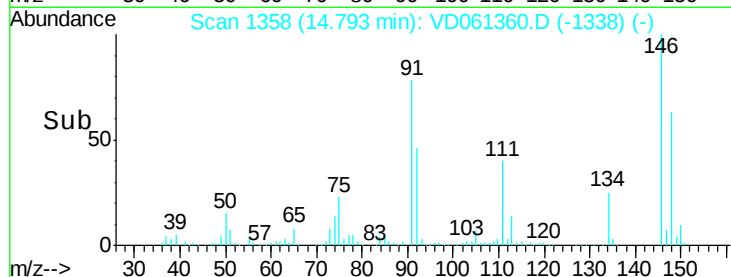
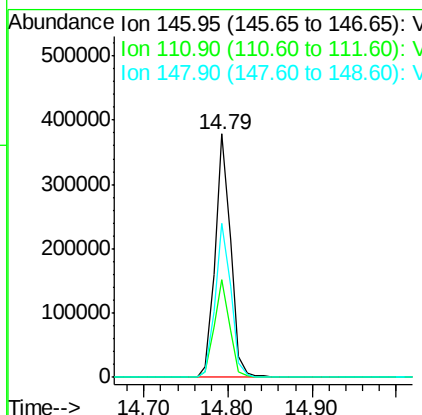
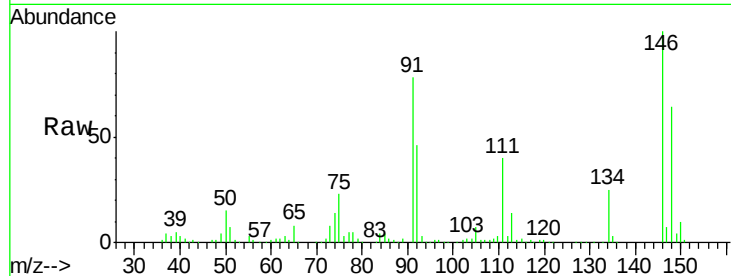
#91
 1,2-Dichlorobenzene
 Concen: 51.457 ug/l
 RT: 14.79 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MSD

Tgt Ion: 146 Resp: 483434
 Ion Ratio Lower Upper
 146 100
 111 40.2 21.2 63.6
 148 63.5 31.6 95.0

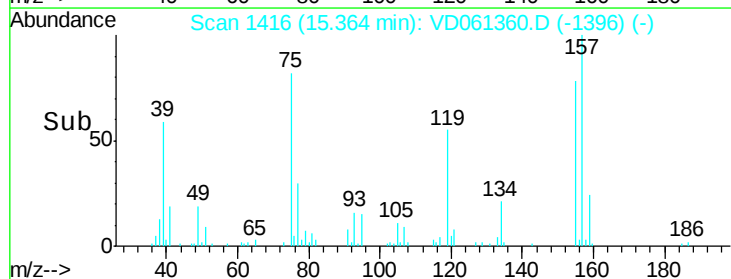
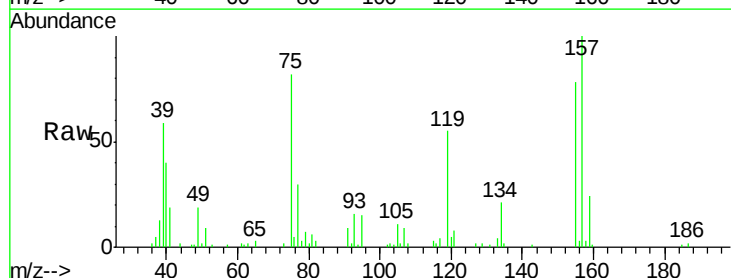
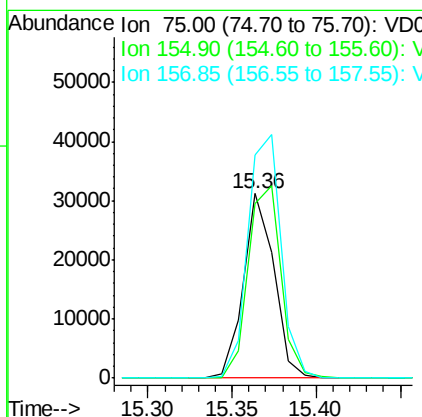
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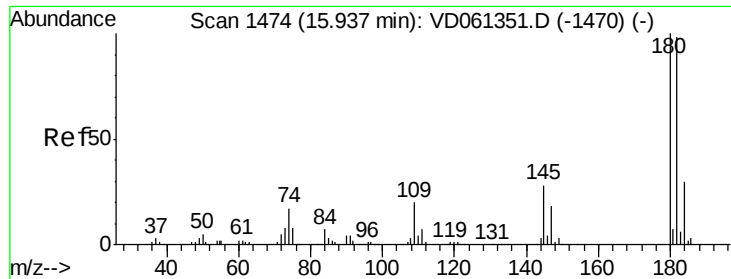
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 69.303 ug/l
 RT: 15.36 min Scan# 1416
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Tgt Ion: 75 Resp: 39120
 Ion Ratio Lower Upper
 75 100
 155 94.9 43.6 130.9
 157 121.3 58.5 175.3





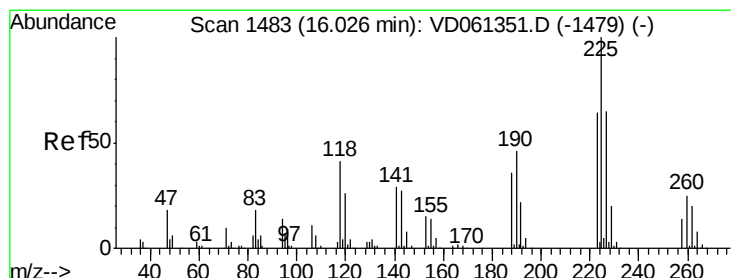
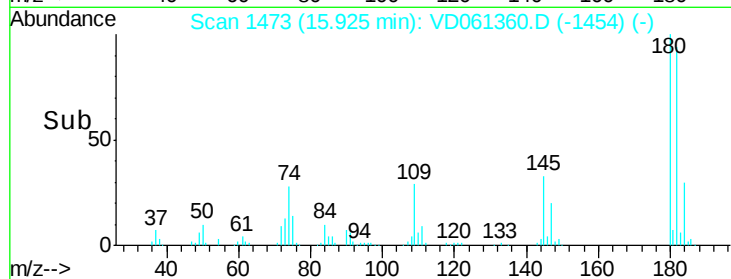
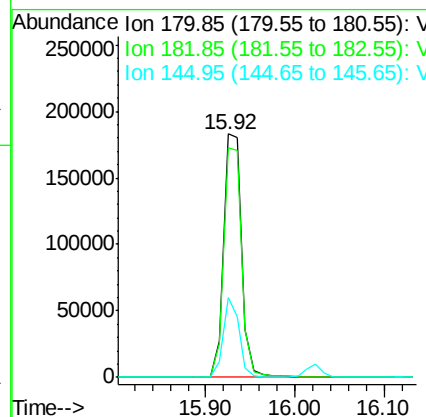
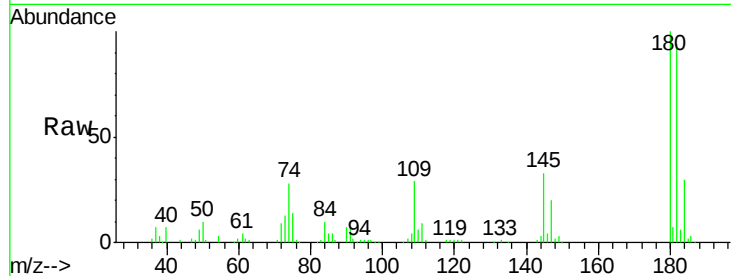
#93
 1,2,4-Trichlorobenzene
 Concen: 60.747 ug/l
 RT: 15.92 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	259982		
182	94.5	48.9	146.8	
145	32.6	14.1	42.3	

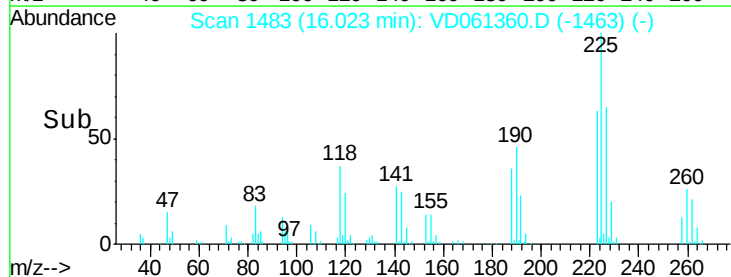
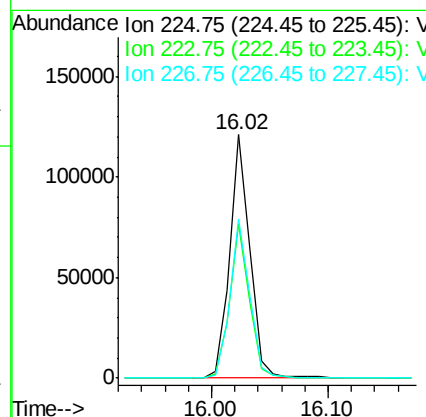
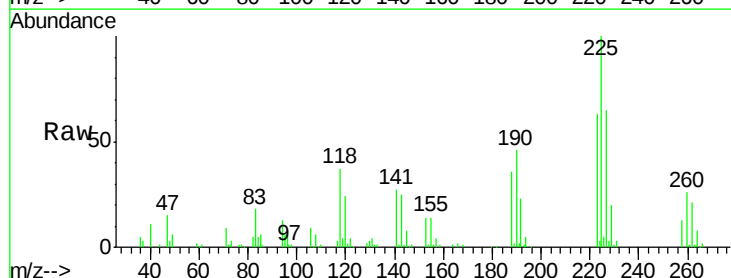
Manual Integrations
 APPROVED

MMDadoda
 3/30/2019 12:16:33 AM



#94
 Hexachlorobutadiene
 Concen: 43.161 ug/l
 RT: 16.02 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: VD061360.D
 Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	144343		
223	63.1	32.0	96.0	
227	65.4	32.4	97.2	





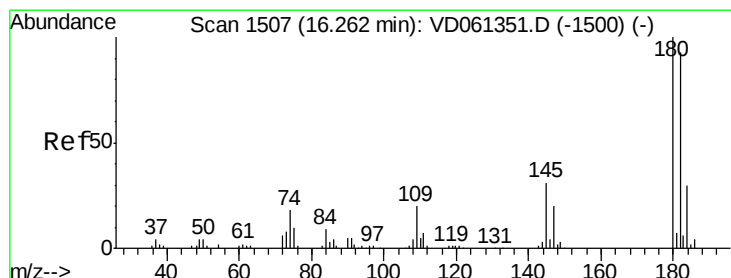
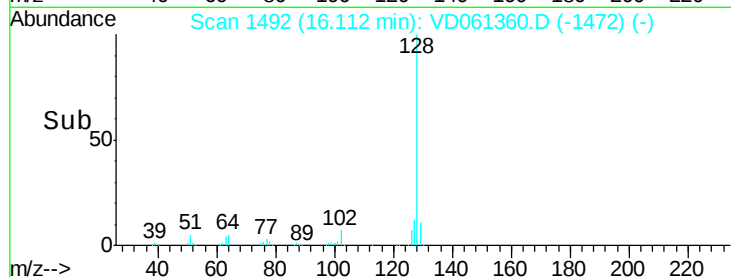
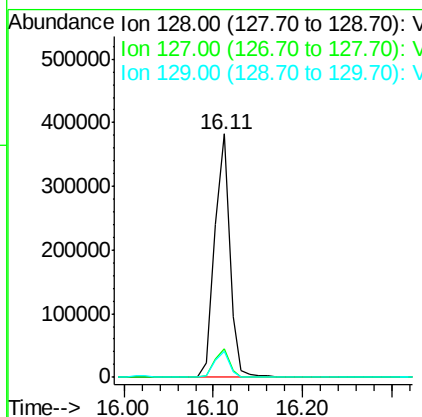
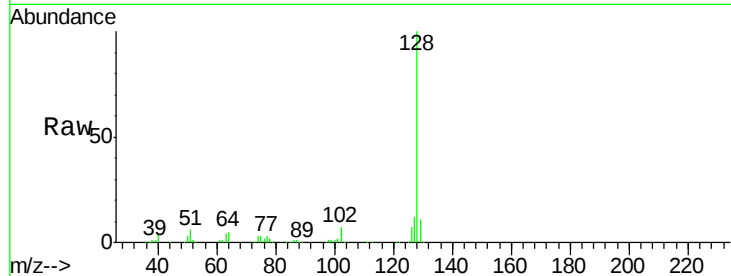
#95
Naphthalene
Concen: 69.571 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Instrument :
MSVOA_D
ClientSampleId :
WP022SB431-190320-(21-23)MSD

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	453840		
127	12.0		9.9	14.9
129	10.9		8.9	13.3

Manual Integrations
APPROVED

MMDadoda
3/30/2019 12:16:33 AM



#96
1,2,3-Trichlorobenzene
Concen: 77.280 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.00 min
Lab File: VD061360.D
Acq: 27 Mar 2019 18:24

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	145539		
182	96.4		46.4	139.1
145	29.2		15.3	45.9

