

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020119\
 Data File : VD060815.D
 Acq On : 1 Feb 2019 13:17
 Operator : VA/AP
 Sample : VD0201SBSD01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBSD01

Manual Integrations
 APPROVED

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 2/4/2019 4:42:53 PM

Quant Time: Feb 02 01:07:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.75	168	501917	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	7.94	114	675438	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.14	117	528470	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.30	152	286471	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.18	65	390659	50.77	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	101.54%	
35) Dibromofluoromethane	6.64	113	325129	50.19	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	100.38%	
50) Toluene-d8	10.15	98	742423	49.08	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	98.16%	
62) 4-Bromofluorobenzene	13.34	95	371762	48.90	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	108987	17.859	ug/l	92
3) Chloromethane	1.73	50	68105	18.640	ug/l #	85
4) Vinyl Chloride	1.83	62	75859	19.560	ug/l	95
5) Bromomethane	2.11	94	24114	19.683	ug/l	99
6) Chloroethane	2.21	64	27823	17.926	ug/l	93
7) Trichlorofluoromethane	2.46	101	151459	19.839	ug/l	90
8) Diethyl Ether	2.78	74	22162	19.701	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.03	101	80193	20.727	ug/l	93
10) Methyl Iodide	3.18	142	80078	19.769	ug/l	98
11) Tert butyl alcohol	3.90	59	31297	85.109	ug/l #	89
12) 1,1-Dichloroethene	3.01	96	56958	21.543	ug/l	95
13) Acrolein	2.93	56	17426	124.257	ug/l	94
14) Allyl chloride	3.47	41	122037	19.835	ug/l #	91
15) Acrylonitrile	4.01	53	74656	90.609	ug/l	98
16) Acetone	3.10	43	109656	98.666	ug/l	96
17) Carbon Disulfide	3.25	76	181703	19.402	ug/l	96
18) Methyl Acetate	3.48	43	38158	17.319	ug/l	100
19) Methyl tert-butyl Ether	4.05	73	233359	19.333	ug/l	99
20) Methylene Chloride	3.65	84	91450	15.492	ug/l	94
21) trans-1,2-Dichloroethene	4.02	96	91077	19.541	ug/l	93
22) Diisopropyl ether	4.84	45	276380	17.432	ug/l	98
23) Vinyl Acetate	4.78	43	831895	91.113	ug/l	100
24) 1,1-Dichloroethane	4.73	63	192275	18.525	ug/l	99
25) 2-Butanone	5.80	43	119898	84.285	ug/l	98
26) 2,2-Dichloropropane	5.75	77	204671	18.715	ug/l	98
27) cis-1,2-Dichloroethene	5.76	96	94409	17.785	ug/l	93
28) Bromochloromethane	6.15	49	75695	18.695	ug/l	94
29) Tetrahydrofuran	6.19	42	57374	83.988	ug/l	99
30) Chloroform	6.39	83	219779	17.915	ug/l	96
31) Cyclohexane	6.67	56	120628	17.081	ug/l	96
32) 1,1,1-Trichloroethane	6.60	97	228051	19.304	ug/l	97
36) 1,1-Dichloropropene	6.87	75	152699	18.934	ug/l	98
37) Ethyl Acetate	5.91	43	64121	17.811	ug/l	95
38) Carbon Tetrachloride	6.83	117	209915	20.757	ug/l	93

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Quant Time: Feb 02 01:07:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.60	83	122986	18.210	ug/l	96
40) Benzene	7.19	78	284109	17.850	ug/l	96
41) Methacrylonitrile	6.18	41	44059m	19.271	ug/l	
42) 1,2-Dichloroethane	7.30	62	176768	19.117	ug/l	99
43) Isopropyl Acetate	8.98	43	86921	18.512	ug/l #	98
44) Trichloroethene	8.27	130	92811	17.201	ug/l	98
45) 1,2-Dichloropropane	8.67	63	75936	17.624	ug/l	96
46) Dibromomethane	8.80	93	62242	18.609	ug/l	95
47) Bromodichloromethane	9.12	83	174838	19.366	ug/l	99
48) Methyl methacrylate	8.86	41	64542	19.934	ug/l	97
49) 1,4-Dioxane	8.82	88	9564	362.361	ug/l	90
51) 4-Methyl-2-Pentanone	10.05	43	278923	91.732	ug/l	96
52) Toluene	10.26	92	185900	18.413	ug/l	99
53) t-1,3-Dichloropropene	10.66	75	155233	19.547	ug/l	91
54) cis-1,3-Dichloropropene	9.79	75	159860	19.630	ug/l	96
55) 1,1,2-Trichloroethane	10.95	97	61540	17.878	ug/l	96
56) Ethyl methacrylate	10.80	69	74985	17.982	ug/l	95
57) 1,3-Dichloropropane	11.16	76	101450	17.244	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.60	63	216730	99.056	ug/l	99
59) 2-Hexanone	11.29	43	202938	88.764	ug/l	92
60) Dibromochloromethane	11.45	129	116154	18.769	ug/l	98
61) 1,2-Dibromoethane	11.57	107	78538	19.373	ug/l	98
64) Tetrachloroethene	11.01	164	89892	18.534	ug/l	92
65) Chlorobenzene	12.17	112	231693	19.185	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.29	131	96162	18.534	ug/l	98
67) Ethyl Benzene	12.30	91	417578	19.229	ug/l	93
68) m/p-Xylenes	12.44	106	272247	38.533	ug/l	97
69) o-Xylene	12.83	106	134794	19.276	ug/l	82
70) Styrene	12.85	104	226094	19.281	ug/l	94
71) Bromoform	13.01	173	76188	19.489	ug/l	96
73) Isopropylbenzene	13.18	105	434845	19.038	ug/l	98
74) N-amyl acetate	13.04	43	125029	17.806	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.49	83	71522	17.198	ug/l	97
76) 1,2,3-Trichloropropane	13.52	75	93663	17.830	ug/l	95
77) Bromobenzene	13.46	156	110861	18.882	ug/l	85
78) n-propylbenzene	13.56	91	569380	19.858	ug/l	96
79) 2-Chlorotoluene	13.62	91	332516	19.013	ug/l	94
80) 1,3,5-Trimethylbenzene	14.03	105	382011	19.428	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.26	75	21835	15.943	ug/l	96
82) 4-Chlorotoluene	13.73	91	396887	20.419	ug/l	97
83) tert-Butylbenzene	13.98	119	391568	19.034	ug/l	88
84) 1,2,4-Trimethylbenzene	14.03	105	382011	19.428	ug/l	93
85) sec-Butylbenzene	14.16	105	451055	19.261	ug/l	99
86) p-Isopropyltoluene	14.28	119	414094	21.780	ug/l	99
87) 1,3-Dichlorobenzene	14.24	146	194582	18.529	ug/l	95
88) 1,4-Dichlorobenzene	14.32	146	184363	18.068	ug/l	96
89) n-Butylbenzene	14.59	91	391526	19.737	ug/l	98
90) Hexachloroethane	14.80	117	106929	18.900	ug/l	82
91) 1,2-Dichlorobenzene	14.60	146	155741	17.867	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.17	75	17882	18.099	ug/l	64

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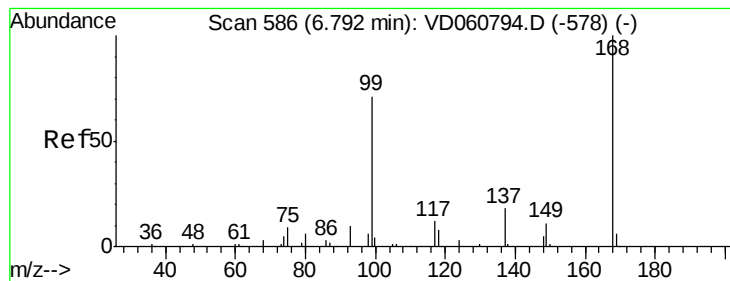
Manual Integrations
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2/4/2019 4:42:53 PM

Quant Time: Feb 02 01:07:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.74	180	159549	21.139	ug/l	97
94) Hexachlorobutadiene	15.83	225	118372	20.903	ug/l	94
95) Naphthalene	15.92	128	210618	18.162	ug/l	98
96) 1,2,3-Trichlorobenzene	16.07	180	124905	19.031	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.75 min Scan# 582

Delta R.T. -0.04 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBS01

Tot Ion:168 Resp: 501917

Ion Ratio Lower Upper

168 100

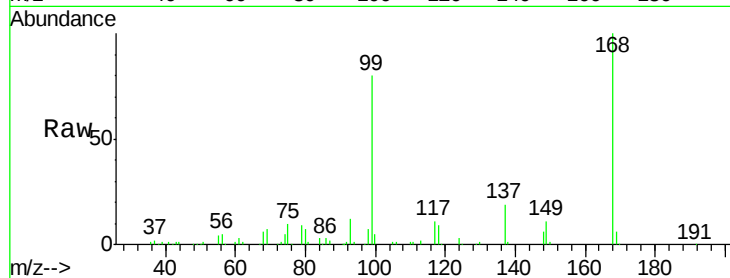
99 79.6 59.2 88.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.75

150000

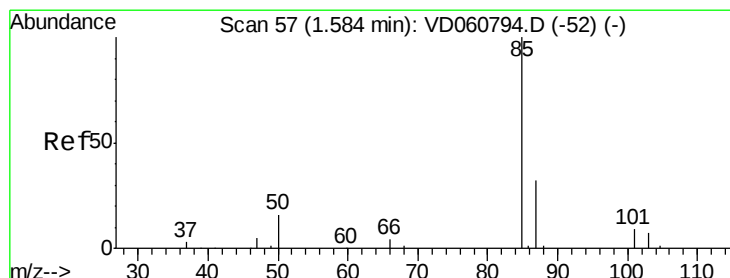
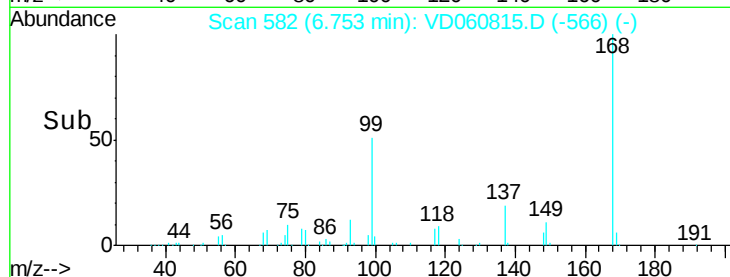
100000

50000

0

6.60 6.70 6.80 6.90 7.00

Time-->



#2

Dichlorodifluoromethane

Concen: 17.859 ug/l

RT: 1.57 min Scan# 55

Delta R.T. -0.02 min

Lab File: VD060815.D

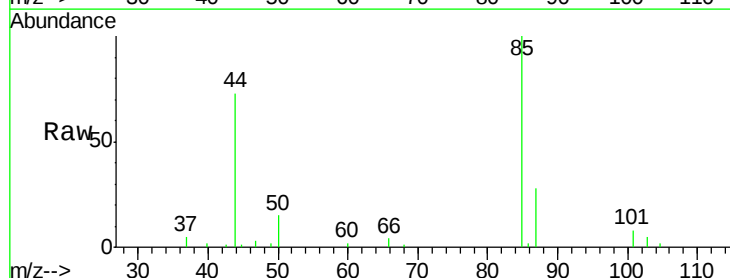
Acq: 1 Feb 2019 13:17

Tgt Ion: 85 Resp: 108987

Ion Ratio Lower Upper

85 100

87 27.7 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

40000

30000

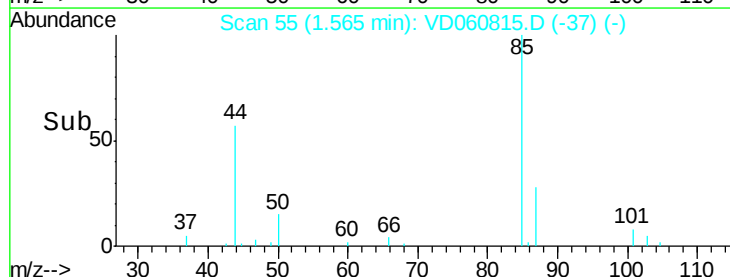
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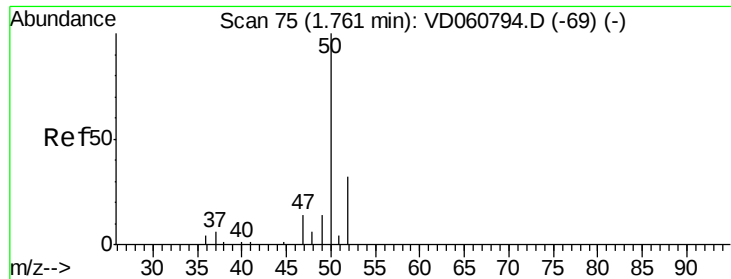
10000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 18.640 ug/l

RT: 1.73 min Scan# 72

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBS01

Tot Ion: 50 Resp: 68105

Ion Ratio Lower Upper

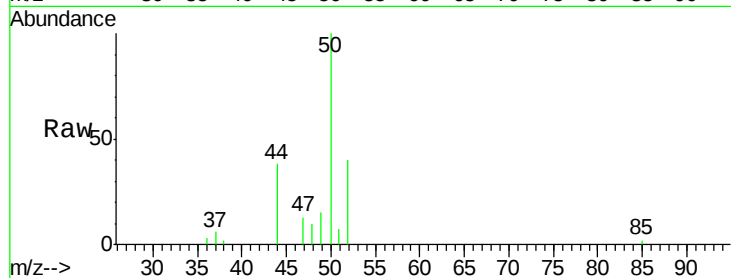
50 100

52 39.9 25.2 37.8#

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.73

25000

20000

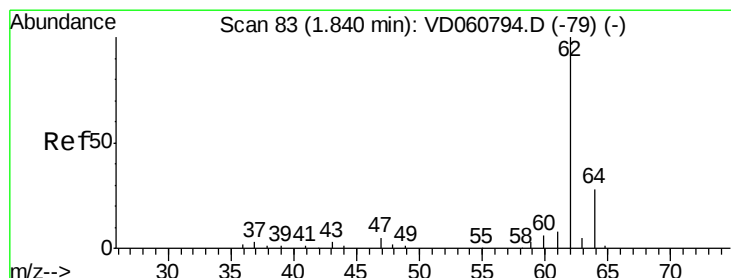
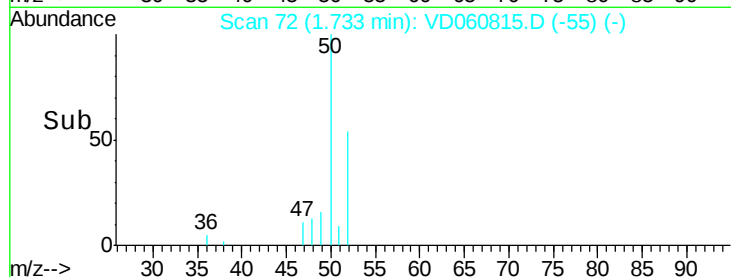
15000

10000

5000

0

Time--> 1.60 1.70 1.80 1.90



#4

Vinyl Chloride

Concen: 19.560 ug/l

RT: 1.83 min Scan# 82

Delta R.T. -0.01 min

Lab File: VD060815.D

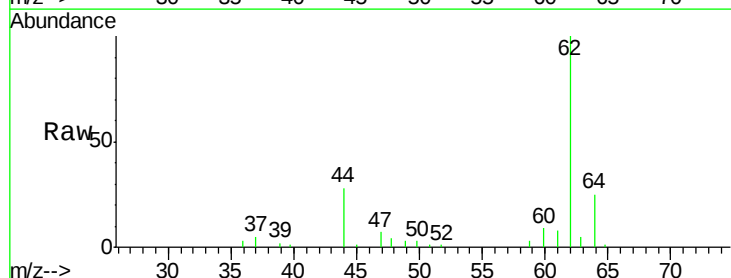
Acq: 1 Feb 2019 13:17

Tgt Ion: 62 Resp: 75859

Ion Ratio Lower Upper

62 100

64 24.8 22.1 33.1



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.83

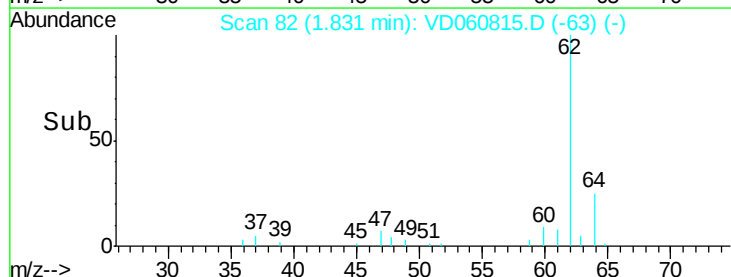
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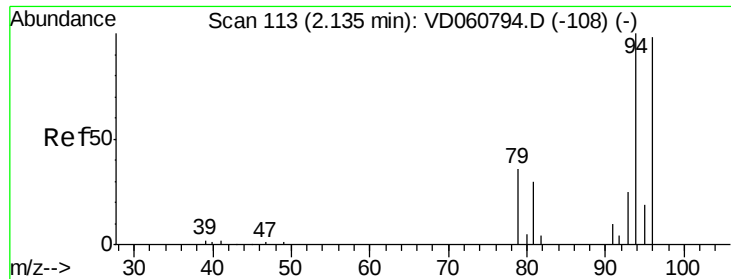
20000

10000

0

Time--> 1.70 1.80 1.90 2.00





#5

Bromomethane

Concen: 19.683 ug/l

RT: 2.11 min Scan# 110

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBSD01

Tot Ion: 94 Resp: 24114

Ion Ratio Lower Upper

94 100

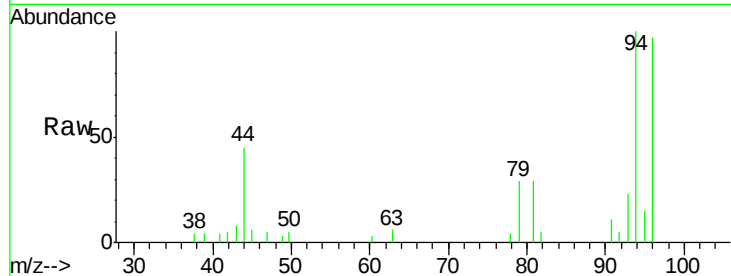
96 96.9 78.0 117.0

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.11

12000

10000

8000

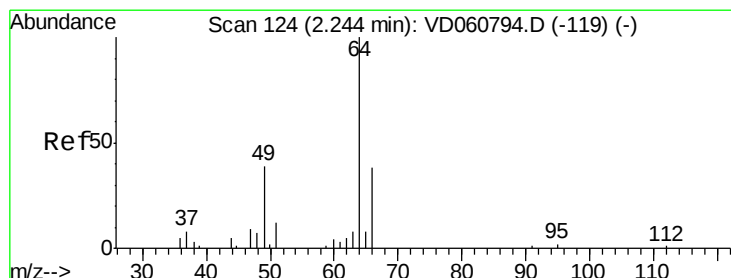
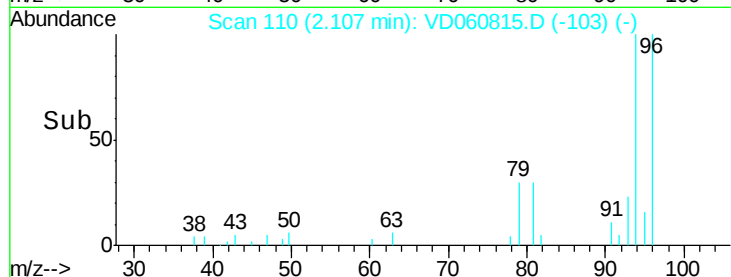
6000

4000

2000

0

Time-->



#6

Chloroethane

Concen: 17.926 ug/l

RT: 2.21 min Scan# 121

Delta R.T. -0.03 min

Lab File: VD060815.D

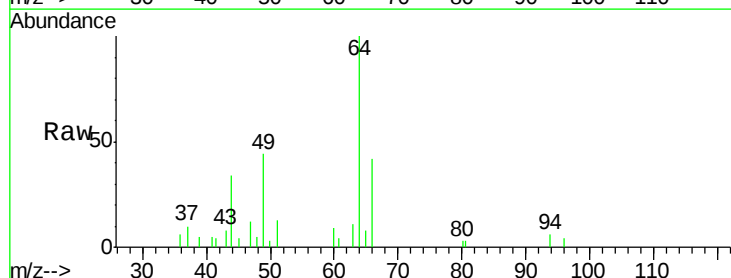
Acq: 1 Feb 2019 13:17

Tgt Ion: 64 Resp: 27823

Ion Ratio Lower Upper

64 100

66 42.1 30.2 45.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.21

12000

10000

8000

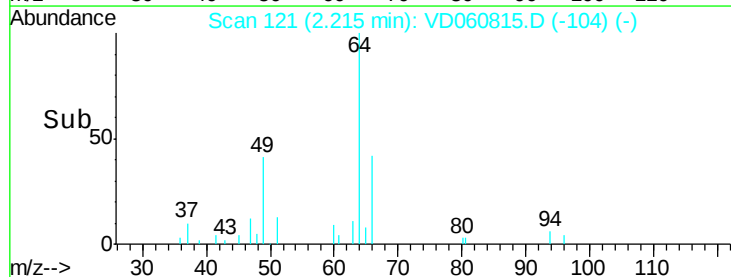
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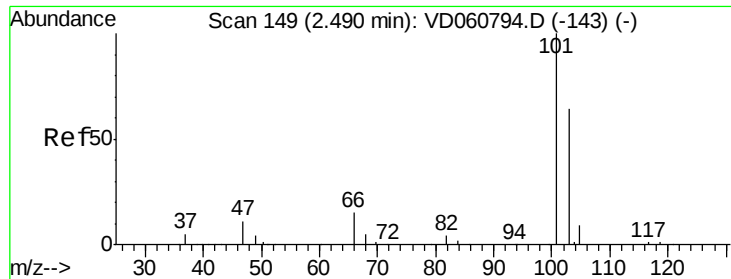
4000

2000

0

Time-->





#7

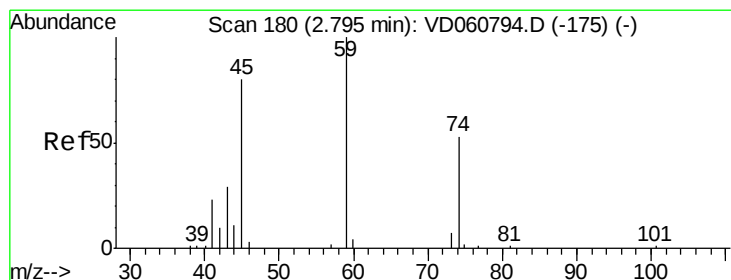
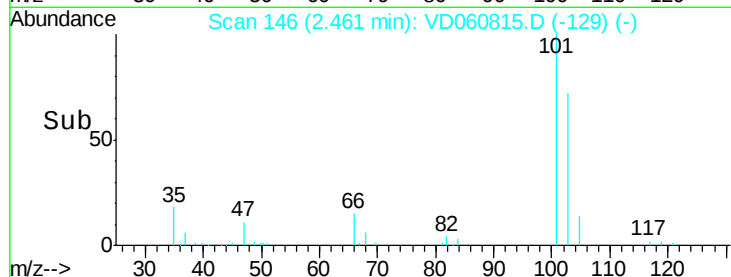
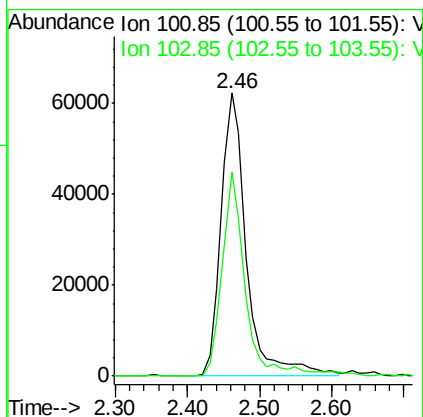
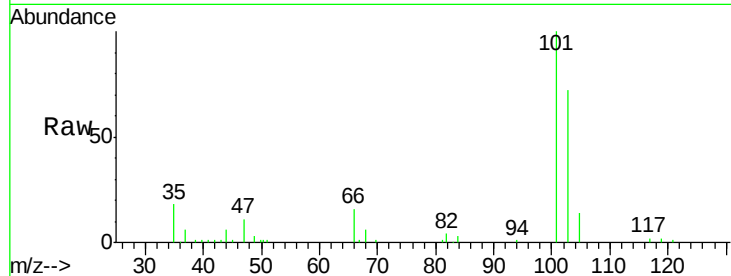
Trichlorofluoromethane
Concen: 19.839 ug/l
RT: 2.46 min Scan# 146
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion:101 Resp: 151459
Ion Ratio Lower Upper
101 100
103 72.2 51.3 76.9

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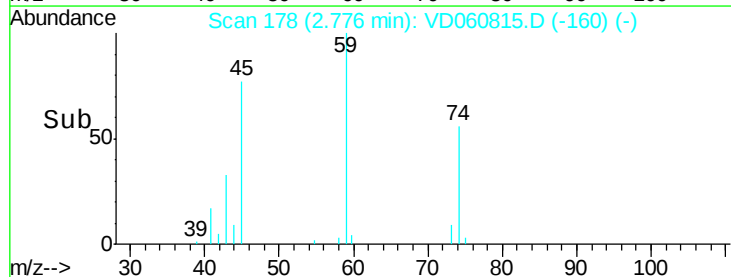
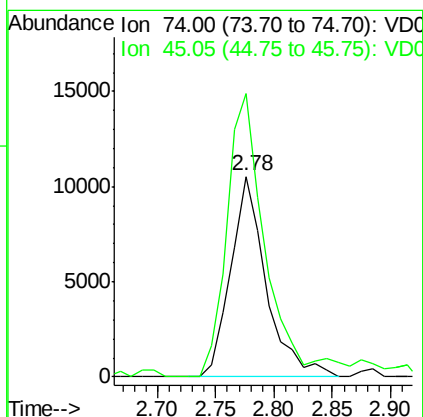
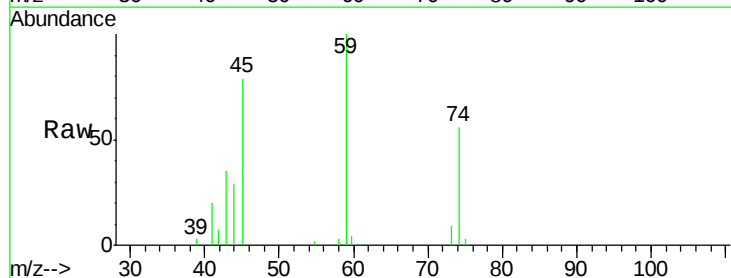
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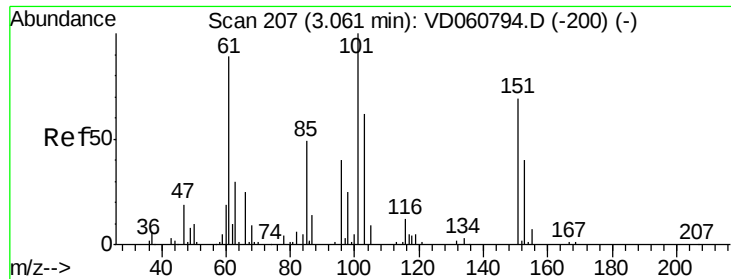


#8

Diethyl Ether
Concen: 19.701 ug/l
RT: 2.78 min Scan# 178
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion: 74 Resp: 22162
Ion Ratio Lower Upper
74 100
45 141.3 75.6 226.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.727 ug/l

RT: 3.03 min Scan# 204

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

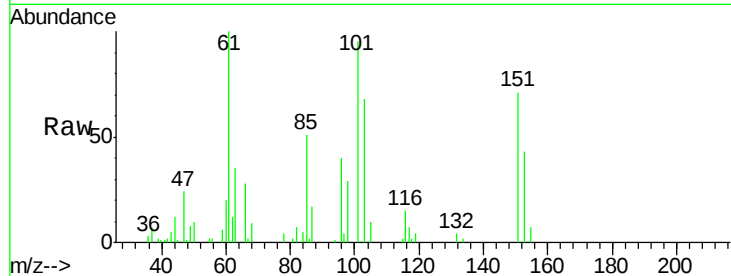
ClientSampleId :

VD0201SBS01

Tot Ion:	101	Resp:	80193
Ion Ratio	Lower	Upper	
101	100		
85	54.0	39.3	58.9
151	75.0	55.1	82.7

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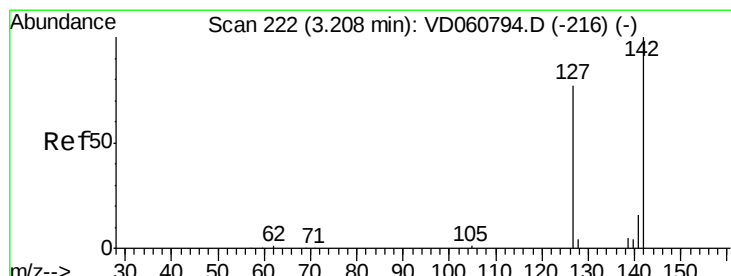
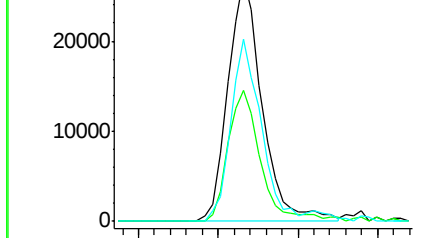
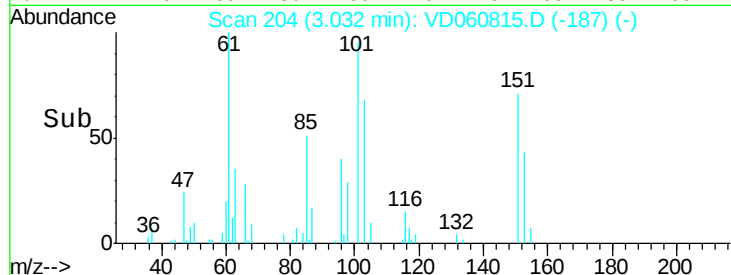


Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V

Time-->



#10

Methyl Iodide

Concen: 19.769 ug/l

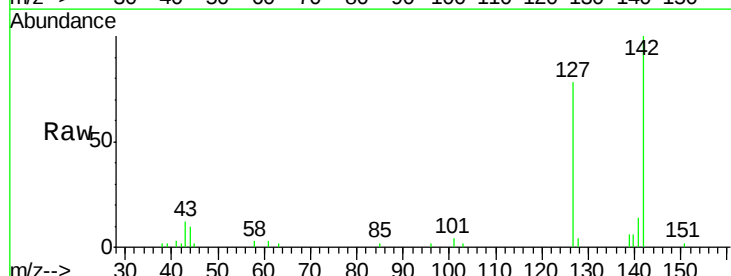
RT: 3.18 min Scan# 219

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion:	142	Resp:	80078
Ion Ratio	Lower	Upper	
142	100		
127	78.1	61.6	92.4
141	14.1	12.5	18.7

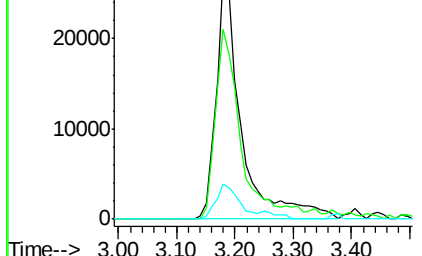
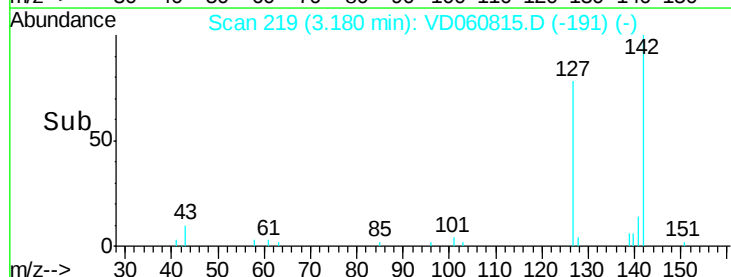


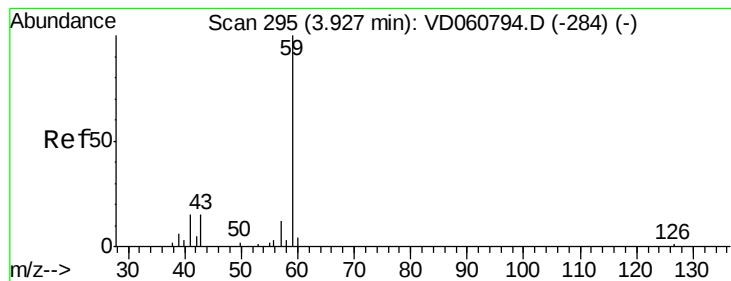
Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

Time-->





#11

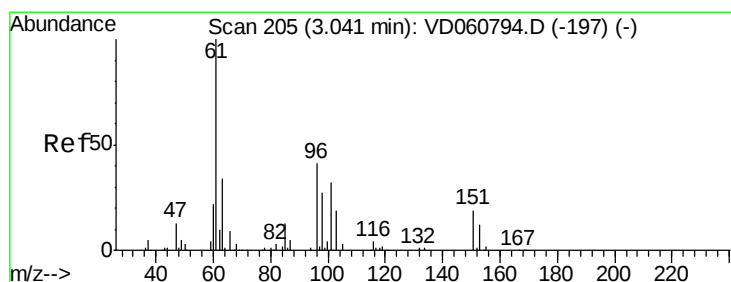
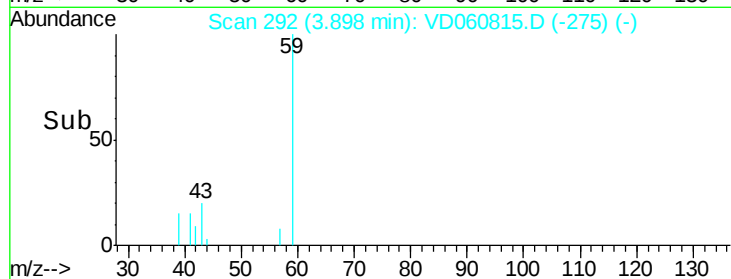
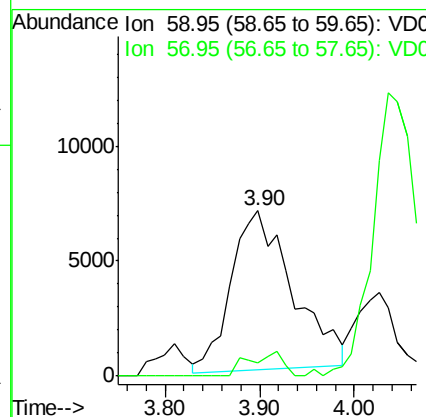
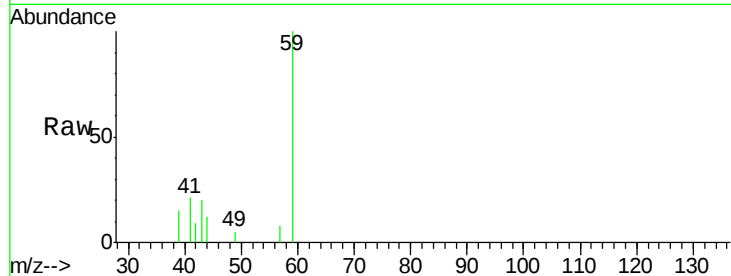
Tert butyl alcohol
 Concen: 85.109 ug/l
 RT: 3.90 min Scan# 292
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.9	9.8	14.6#

Manual Integrations
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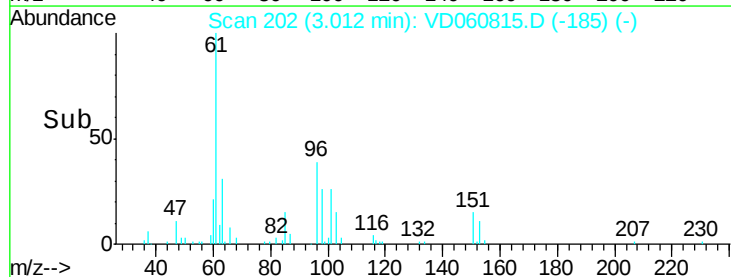
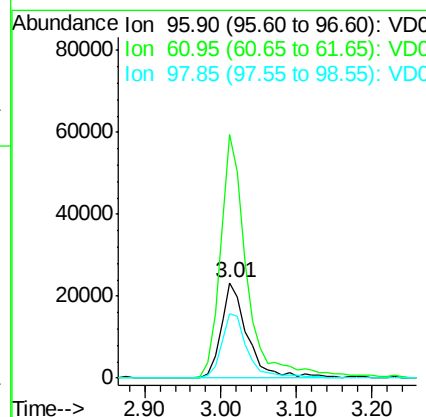
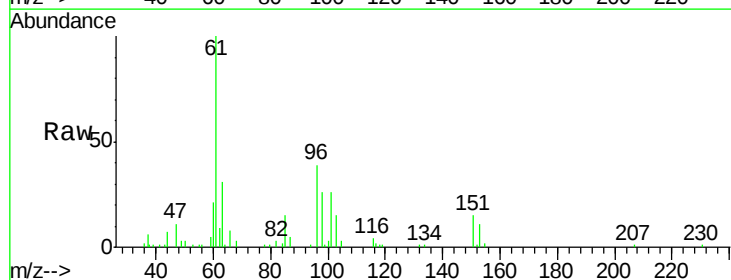
MMDadoda
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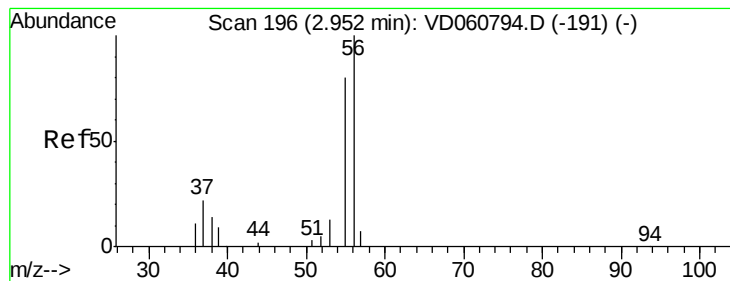


#12

1,1-Dichloroethene
 Concen: 21.543 ug/l
 RT: 3.01 min Scan# 202
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	254.4	195.1	292.7
98	67.2	52.5	78.7





#13

Acrolein

Concen: 124.257 ug/l

RT: 2.93 min Scan# 194

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBSD01

Tot Ion: 56 Resp: 17426

Ion Ratio Lower Upper

56 100

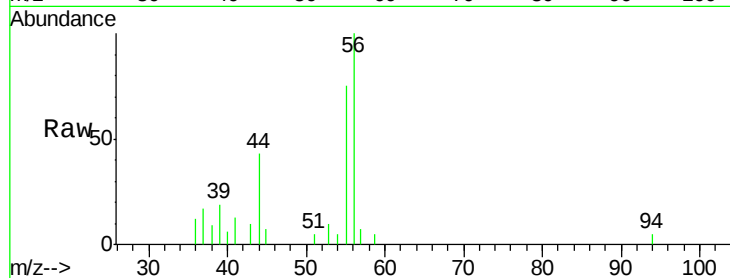
55 74.7 64.2 96.2

Manual Integrations

APPROVED

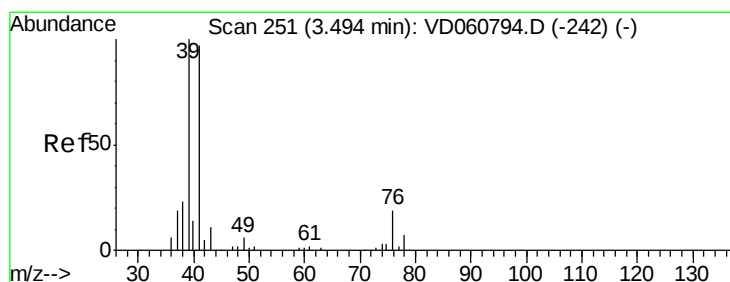
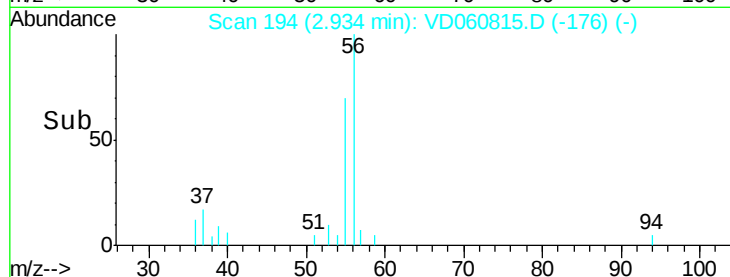
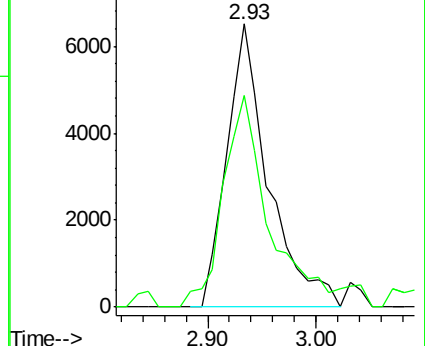
MMDadoda

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.835 ug/l

RT: 3.47 min Scan# 248

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

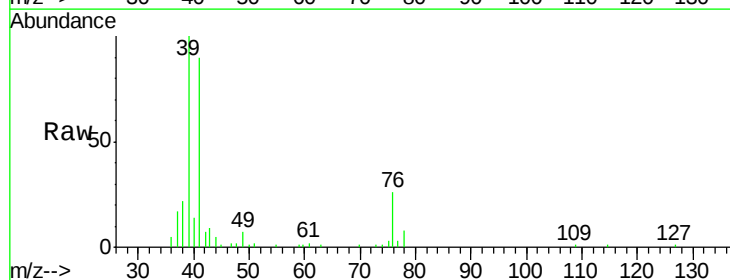
Tgt Ion: 41 Resp: 122037

Ion Ratio Lower Upper

41 100

39 111.5 82.6 123.8

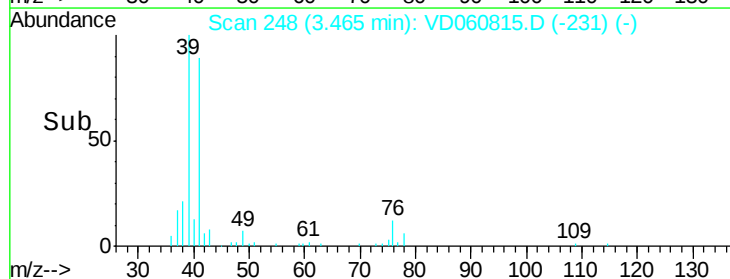
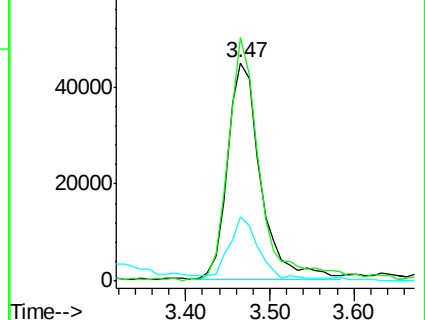
76 29.4 18.9 28.3#

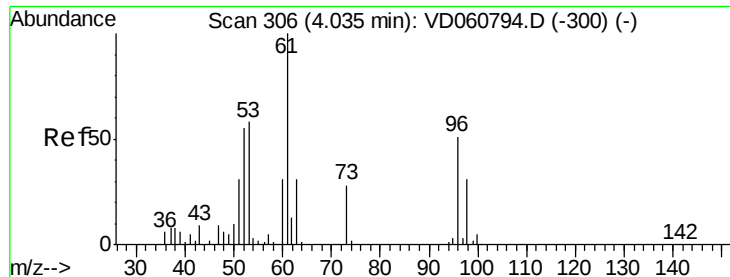


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 90.609 ug/l

RT: 4.01 min Scan# 303

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

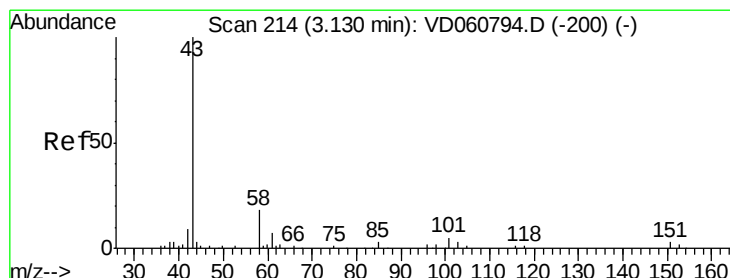
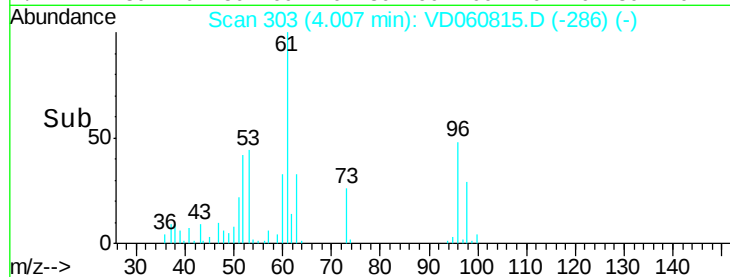
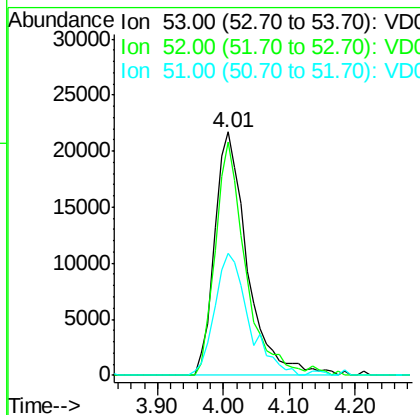
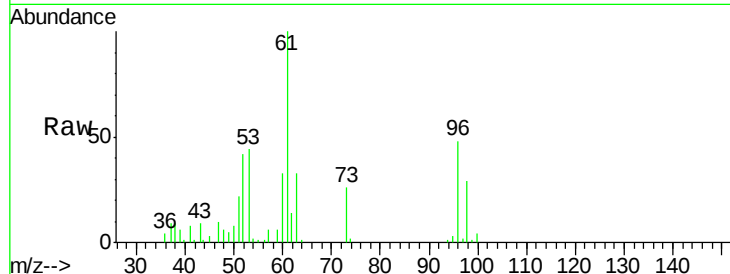
ClientSampleId :

VD0201SBS01

Tot Ion:	53	Resp:	74656
Ion	Ratio	Lower	Upper
53	100		
52	95.6	75.4	113.2
51	49.9	42.5	63.7

Manual Integrations
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#16

Acetone

Concen: 98.666 ug/l

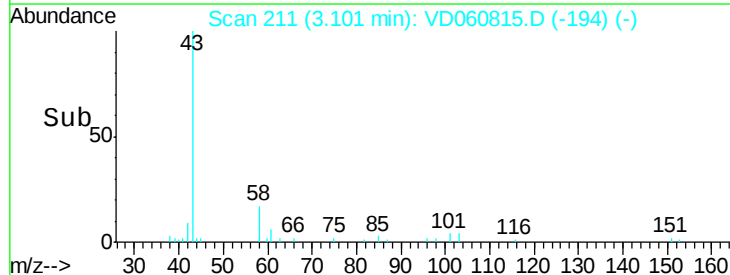
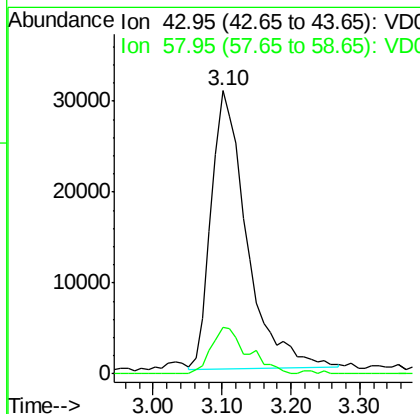
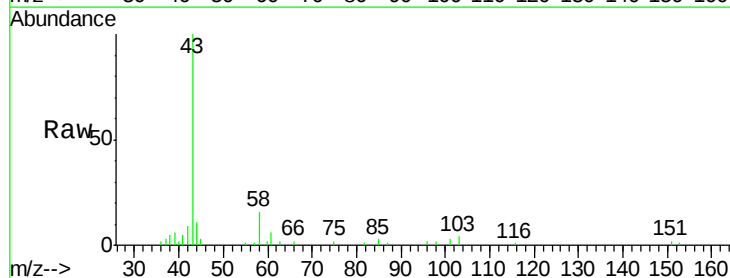
RT: 3.10 min Scan# 211

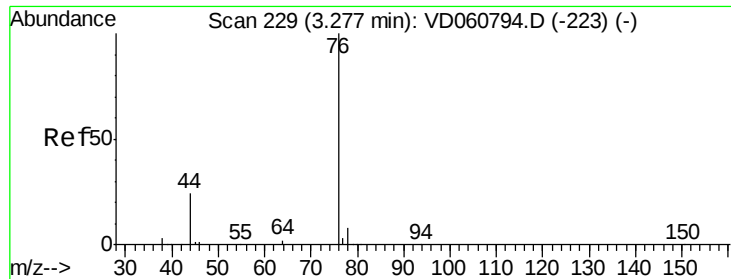
Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion:	43	Resp:	109656
Ion	Ratio	Lower	Upper
43	100		
58	16.3	14.5	21.7





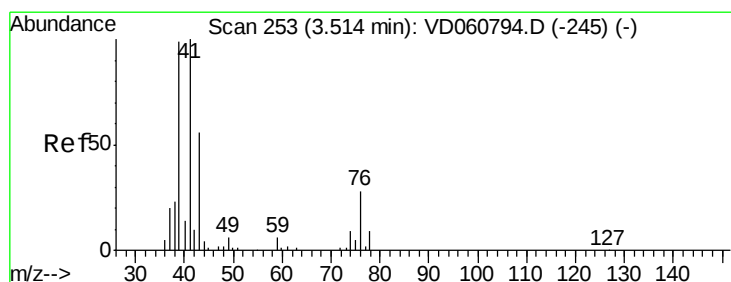
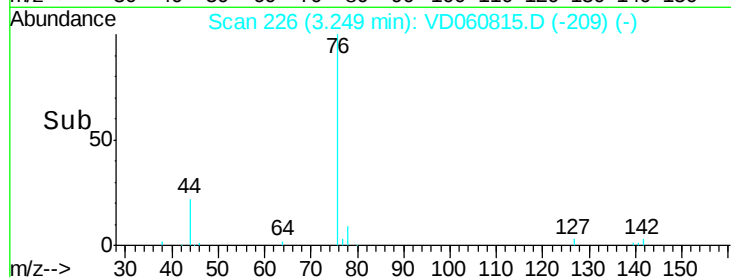
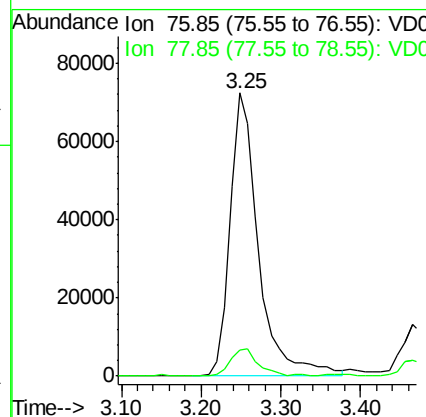
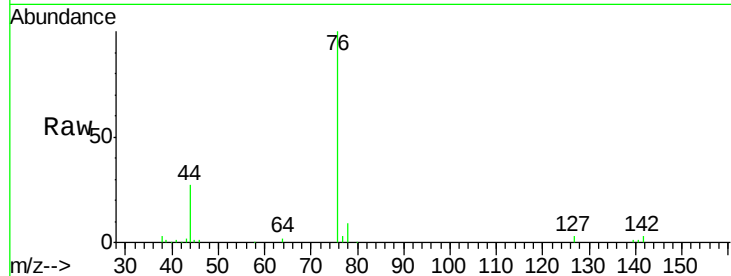
#17
Carbon Disulfide
Concen: 19.402 ug/l
RT: 3.25 min Scan# 226
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.5	9.7

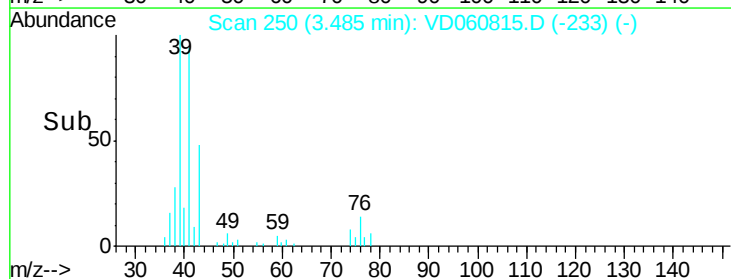
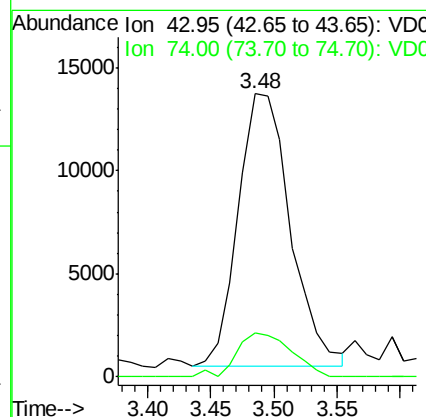
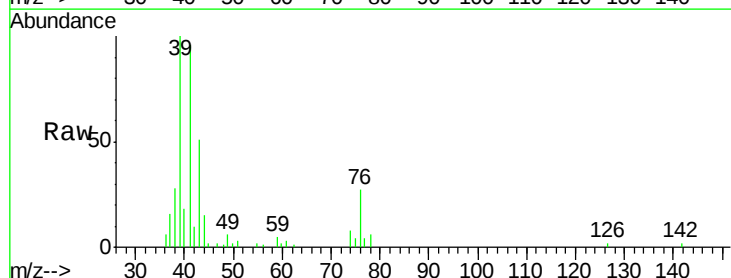
Manual Integrations
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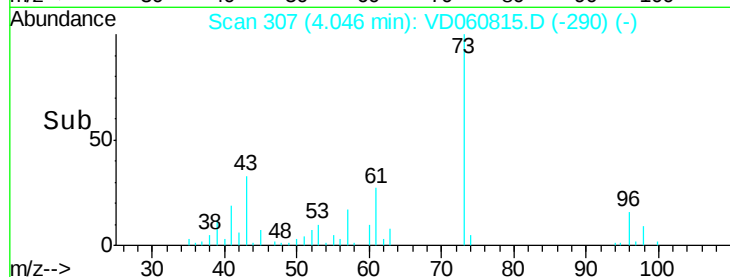
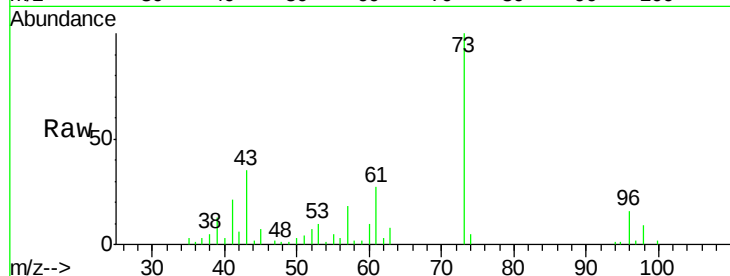
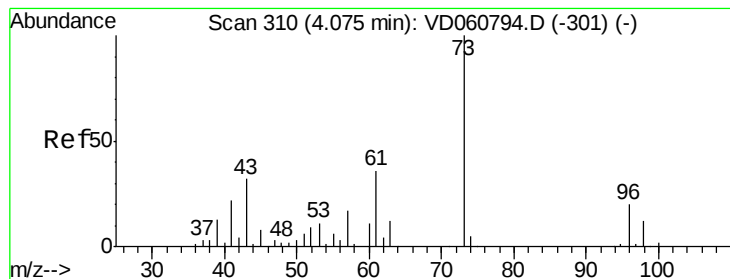
MMDadoda
2/4/2019 4:42:53 PM



#18
Methyl Acetate
Concen: 17.319 ug/l
RT: 3.48 min Scan# 250
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	15.5	12.5	18.7





#19

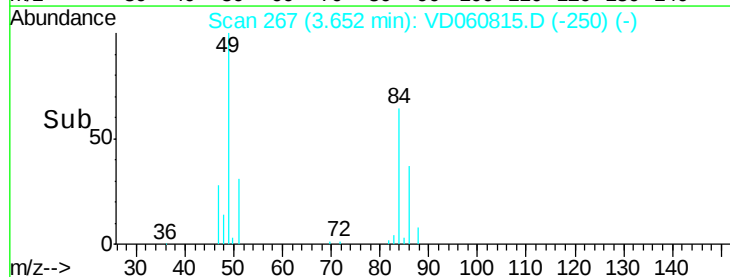
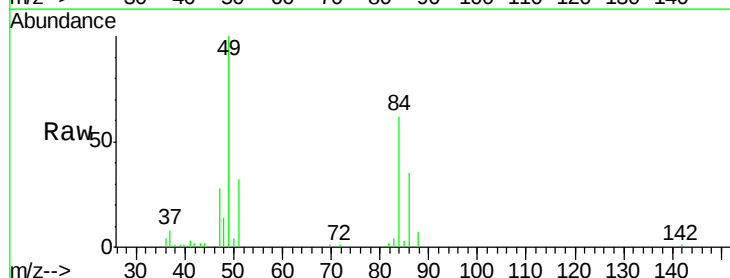
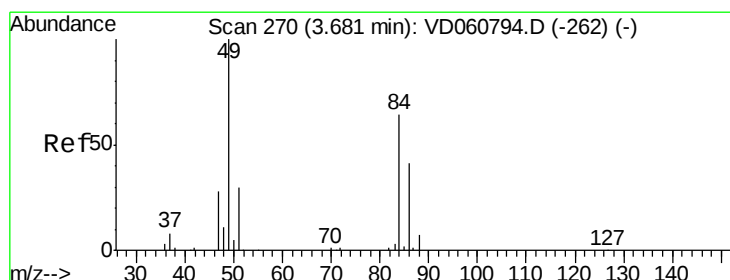
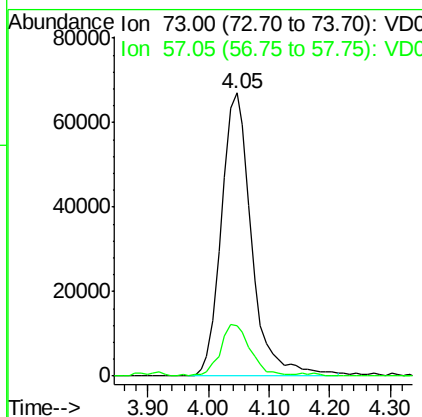
Methyl tert-butyl Ether
Concen: 19.333 ug/l
RT: 4.05 min Scan# 307
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tot Ion	73	57	Ratio	100	17.8	Resp	233359	Lower	14.0	Upper	21.0
Ion	73	57	Ratio	100	17.8	Resp	233359	Lower	14.0	Upper	21.0

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Manual Integrations
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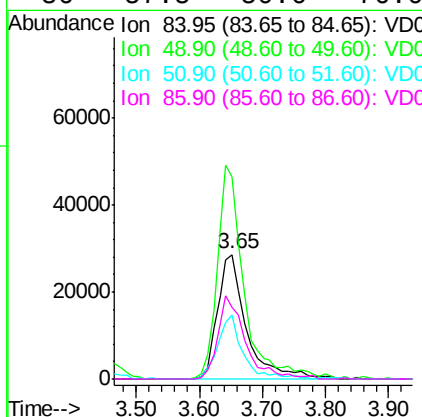
MMDadoda
2/4/2019 4:42:53 PM

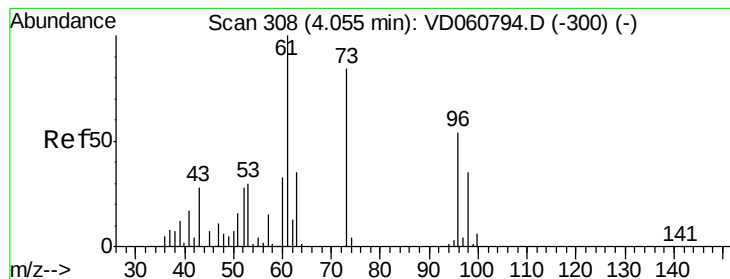


#20

Methylene Chloride
Concen: 15.492 ug/l
RT: 3.65 min Scan# 267
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	84	49	51	86	Ratio	100	162.5	51.7	57.5	Resp	91450	Lower	124.2	57.1	Upper	76.0
Ion	84	49	51	86	Ratio	100	162.5	51.7	57.5	Resp	91450	Lower	124.2	57.1	Upper	76.0





#21

trans-1,2-Dichloroethene

Concen: 19.541 ug/l

RT: 4.02 min Scan# 304

Delta R.T. -0.04 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBS01

Tot Ion: 96 Resp: 91077

Ion Ratio Lower Upper

96 100

61 196.7 147.4 221.2

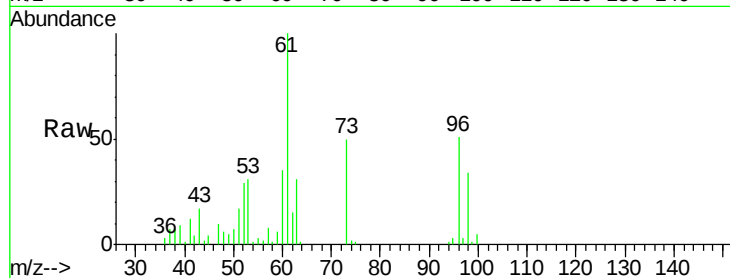
98 67.6 51.5 77.3

Manual Integrations

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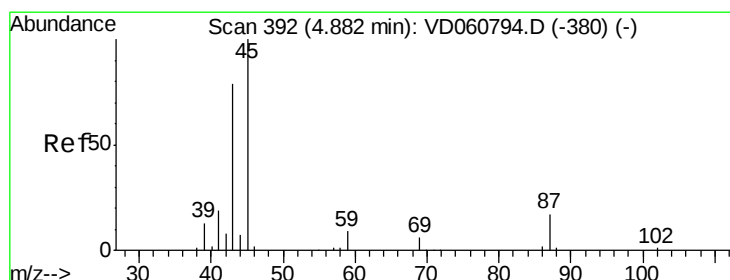
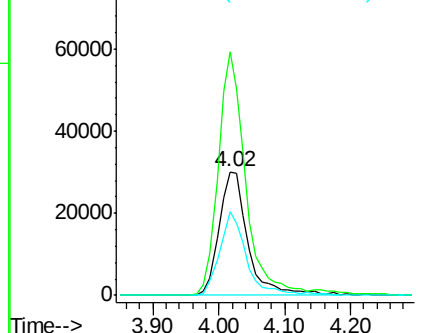
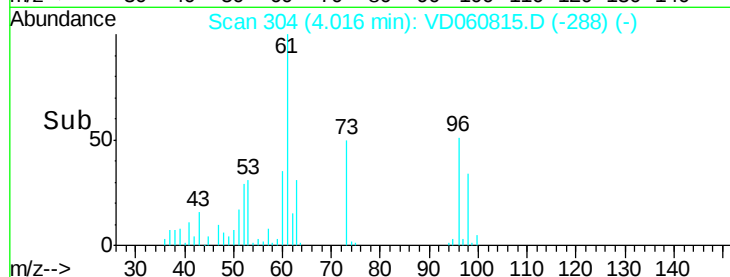
2/4/2019 4:42:53 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 17.432 ug/l

RT: 4.84 min Scan# 388

Delta R.T. -0.04 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion: 45 Resp: 276380

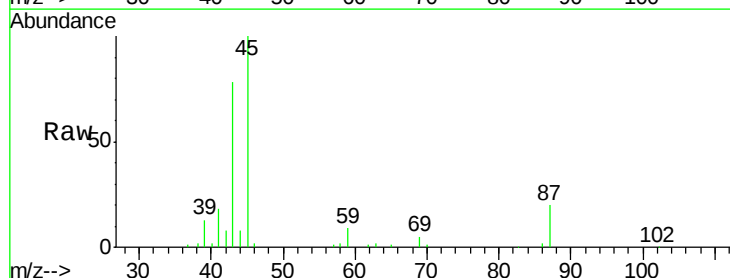
Ion Ratio Lower Upper

45 100

43 78.5 64.3 96.5

87 19.6 14.3 21.5

59 9.1 7.8 11.8

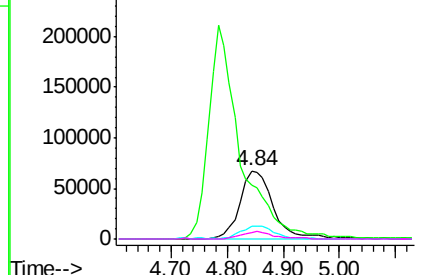
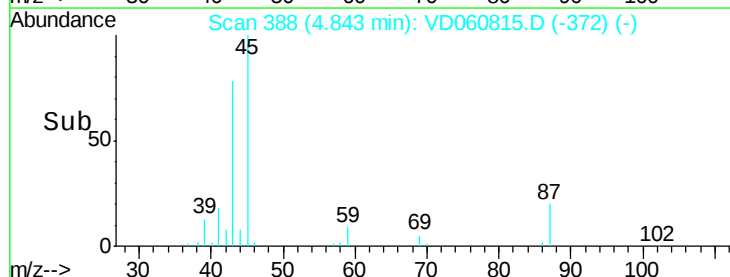


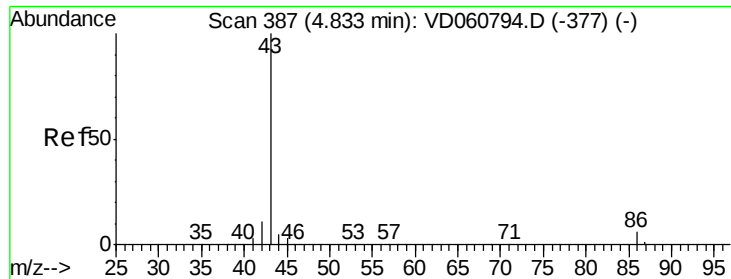
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





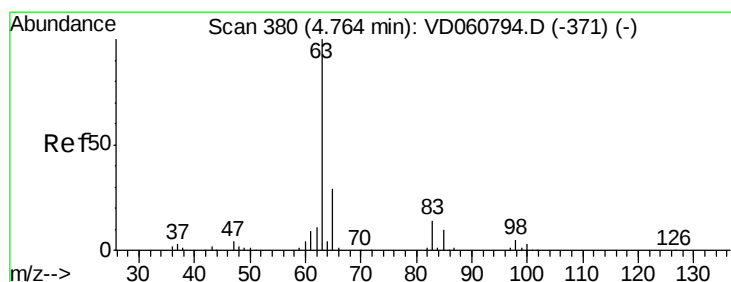
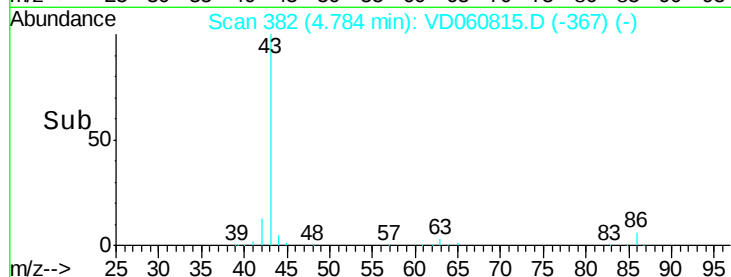
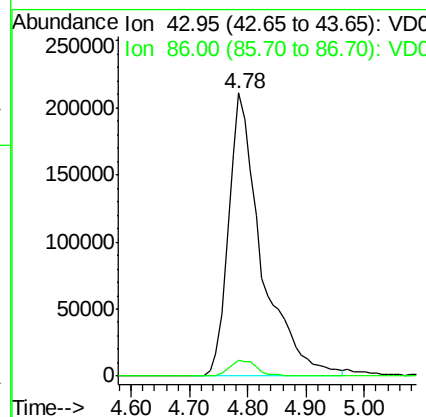
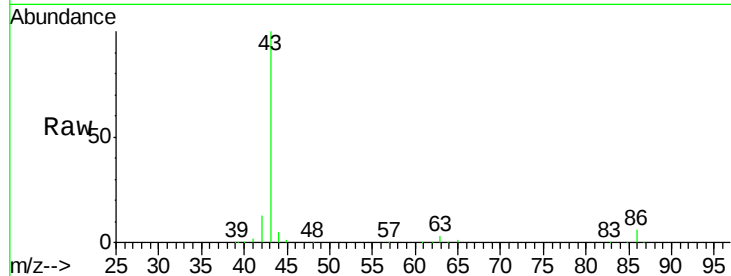
#23
 Vinyl Acetate
 Concen: 91.113 ug/l
 RT: 4.78 min Scan# 382
 Delta R.T. -0.05 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBSD01

Tot Ion: 43 Resp: 831895
 Ion Ratio Lower Upper
 43 100
 86 5.8 4.7 7.1

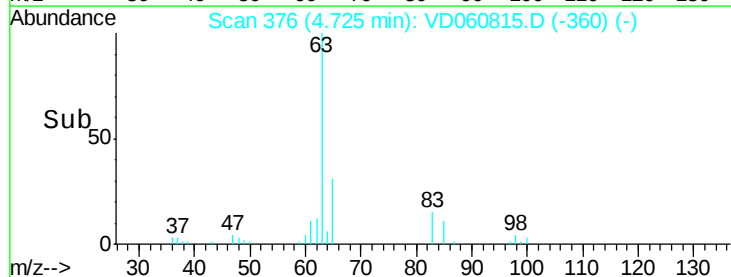
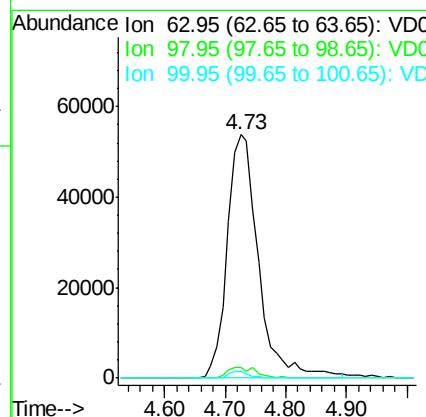
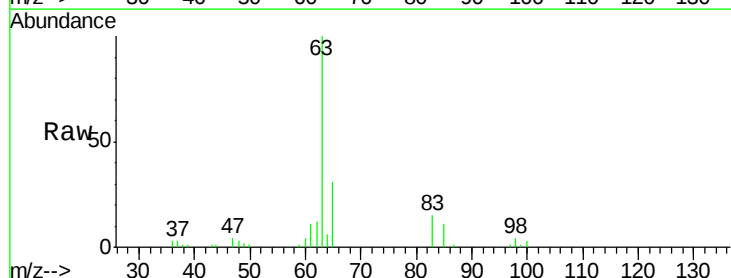
Manual Integrations
 APPROVED

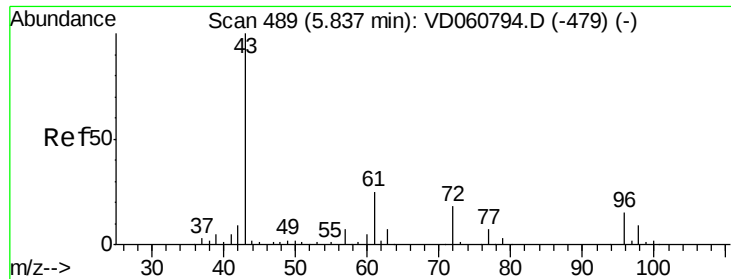
MMDadoda
 2/4/2019 4:42:53 PM



#24
 1,1-Dichloroethane
 Concen: 18.525 ug/l
 RT: 4.73 min Scan# 376
 Delta R.T. -0.04 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion: 63 Resp: 192275
 Ion Ratio Lower Upper
 63 100
 98 4.3 2.3 6.9
 100 2.7 1.3 3.8





#25

2-Butanone

Concen: 84.285 ug/l

RT: 5.80 min Scan# 485

Delta R.T. -0.04 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBSD01

Tot Ion: 43 Resp: 119898

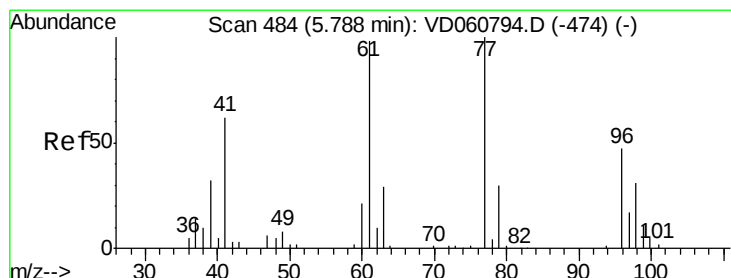
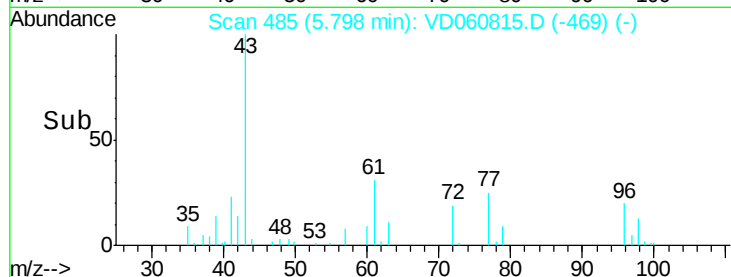
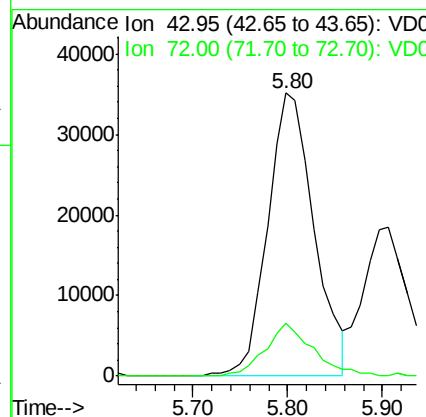
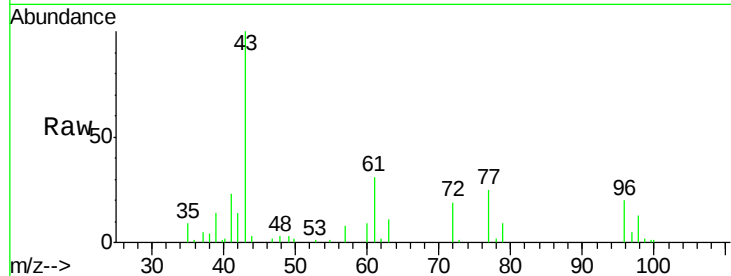
Ion Ratio Lower Upper

43 100

72 18.8 14.4 21.6

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#26

2,2-Dichloropropane

Concen: 18.715 ug/l

RT: 5.75 min Scan# 480

Delta R.T. -0.04 min

Lab File: VD060815.D

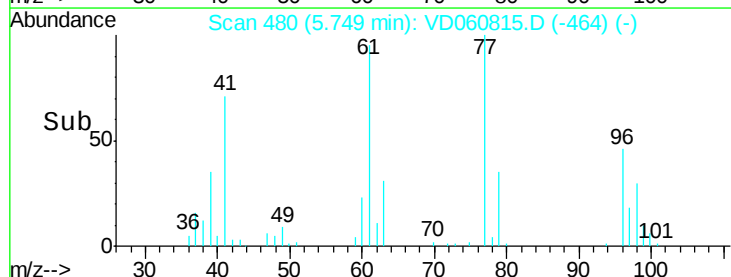
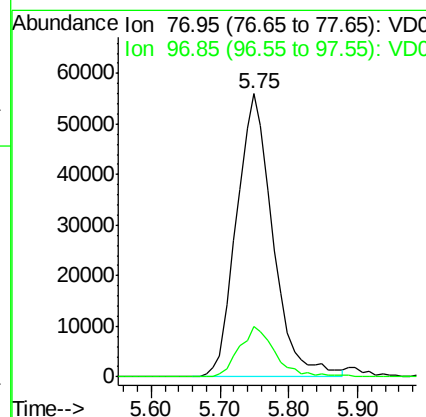
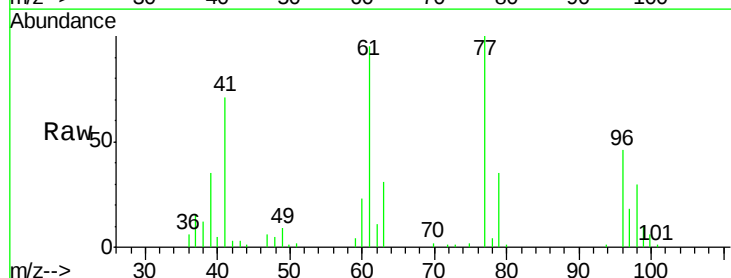
Acq: 1 Feb 2019 13:17

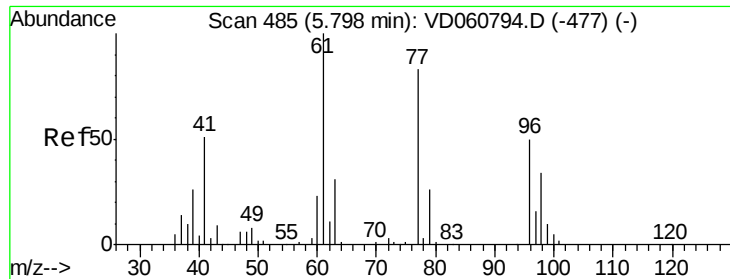
Tgt Ion: 77 Resp: 204671

Ion Ratio Lower Upper

77 100

97 17.6 8.3 24.9





#27

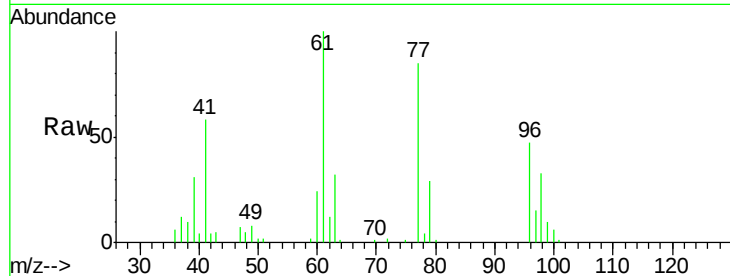
cis-1,2-Dichloroethene
Concen: 17.785 ug/l
RT: 5.76 min Scan# 481
Delta R.T. -0.04 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

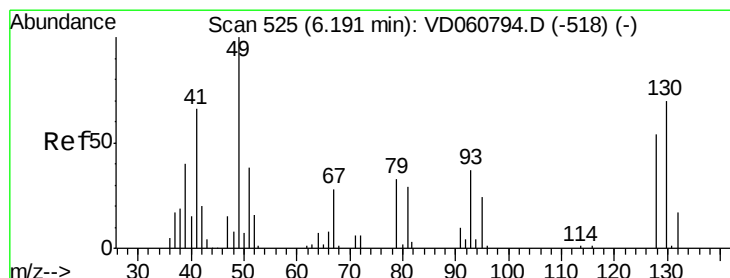
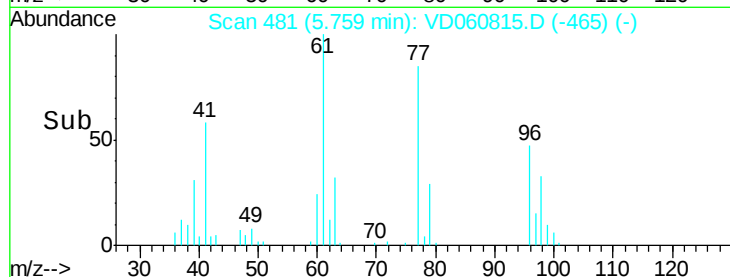
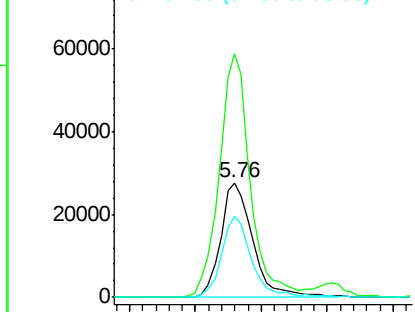
Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	212.5	0.0	400.0	
98	70.3	0.0	136.4	

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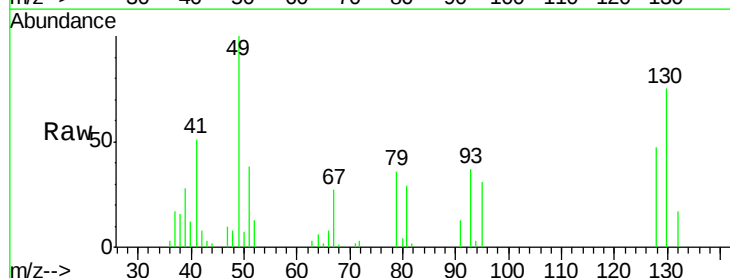
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



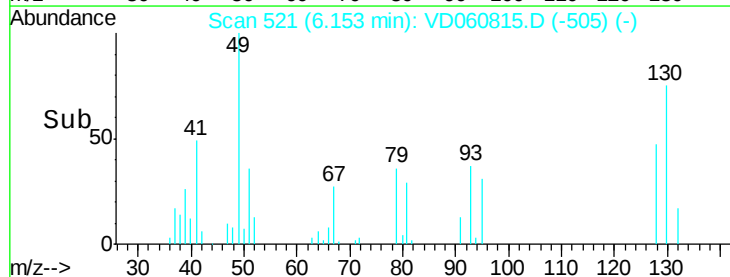
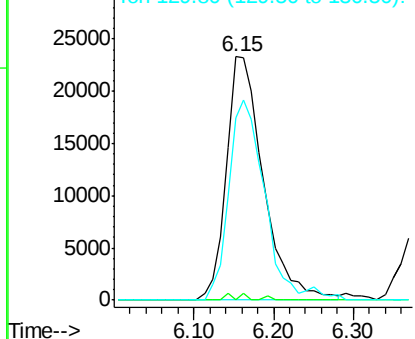
#28

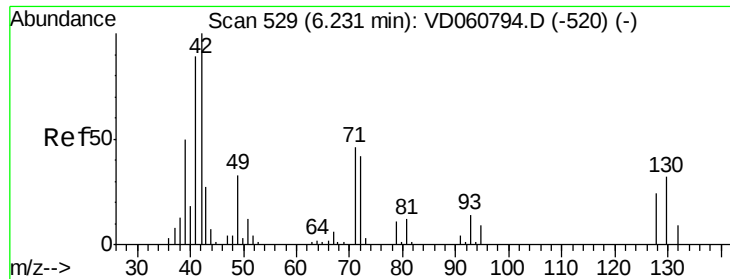
Bromochloromethane
Concen: 18.695 ug/l
RT: 6.15 min Scan# 521
Delta R.T. -0.04 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.0	0.0	0.0	
130	74.6	56.1	84.1	



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





#29

Tetrahydrofuran

Concen: 83.988 ug/l

RT: 6.19 min Scan# 525

Delta R.T. -0.04 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

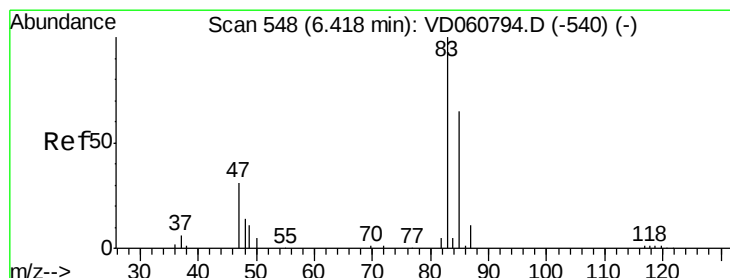
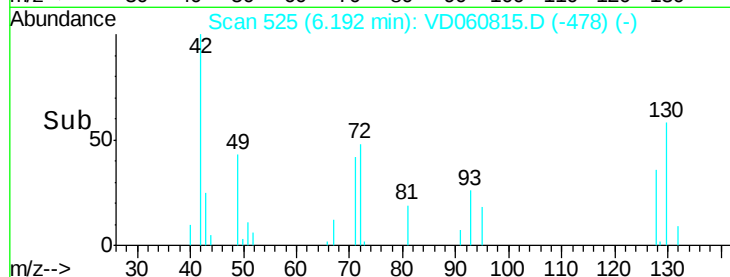
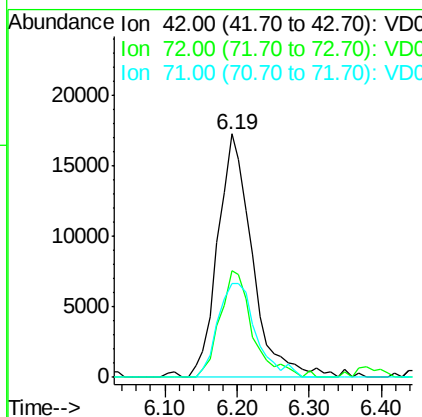
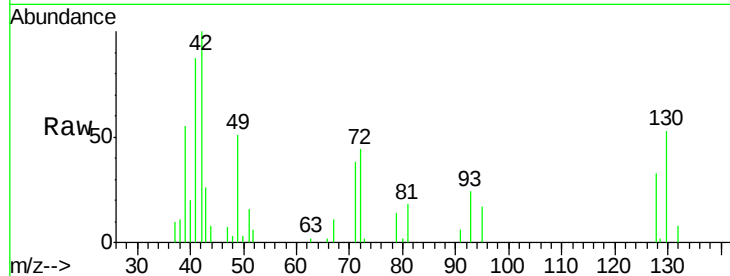
ClientSampleId :

VD0201SBS01

Tot Ion:	42	Resp:	57374
Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.8	49.2
71	42.5	34.6	52.0

Manual Integrations
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#30

Chloroform

Concen: 17.915 ug/l

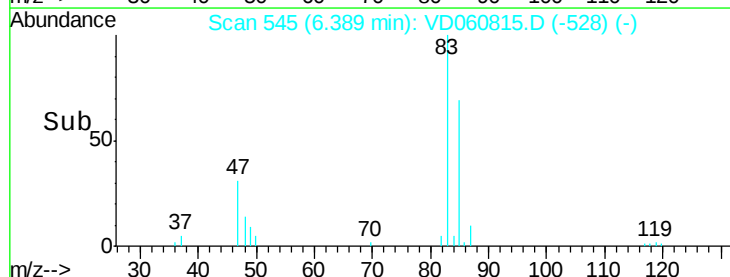
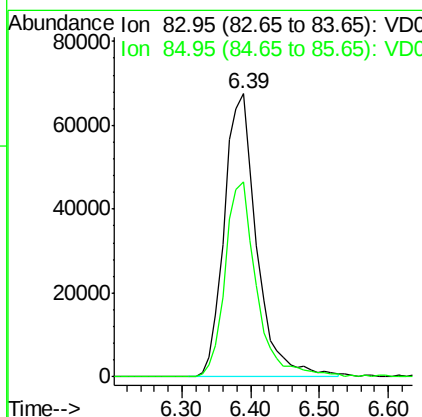
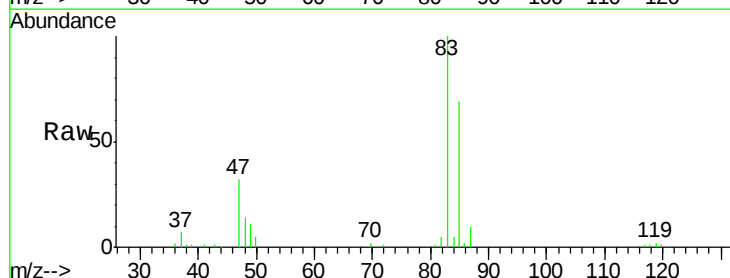
RT: 6.39 min Scan# 545

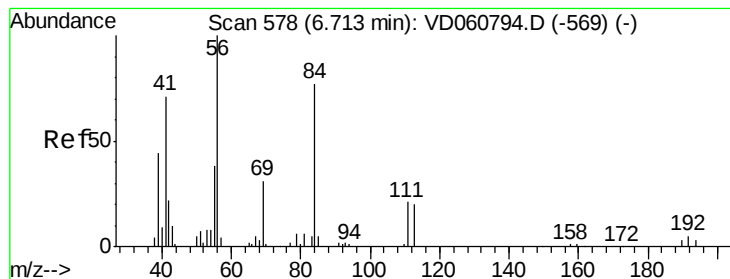
Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion:	83	Resp:	219779
Ion	Ratio	Lower	Upper
83	100		
85	68.8	52.3	78.5





#31

Cyclohexane

Concen: 17.081 ug/l

RT: 6.67 min Scan# 574

Delta R.T. -0.04 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

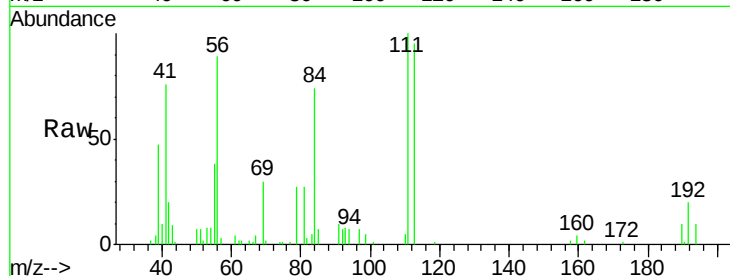
ClientSampleId :

VD0201SBS01

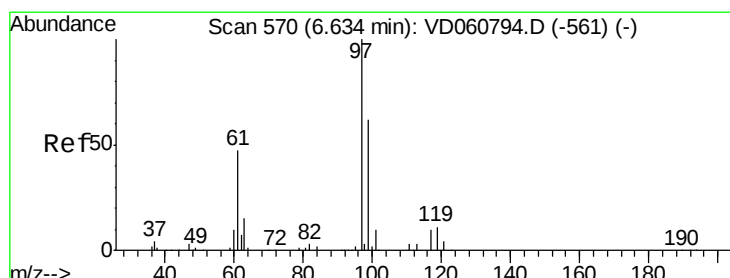
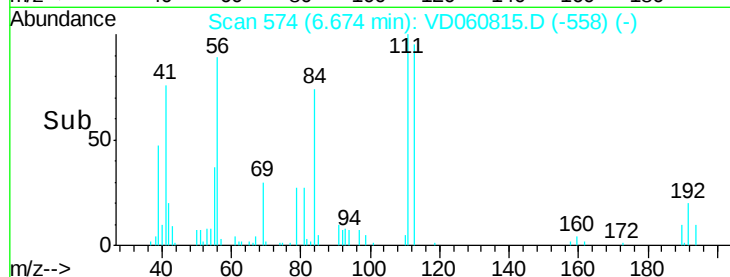
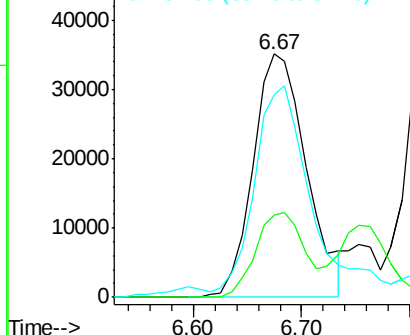
Tot Ion:	56	Resp:	120628
Ion Ratio	Lower	Upper	
56	100		
69	33.7	25.1	37.7
84	83.1	63.9	95.9

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



#32

1,1,1-Trichloroethane

Concen: 19.304 ug/l

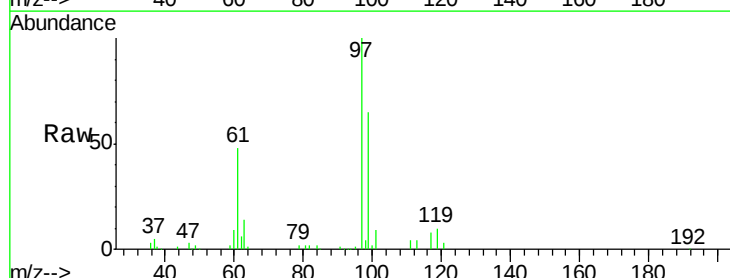
RT: 6.60 min Scan# 566

Delta R.T. -0.04 min

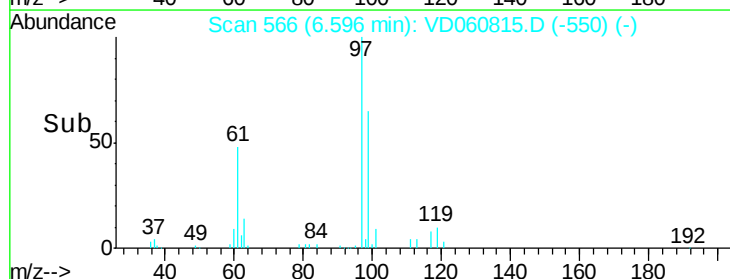
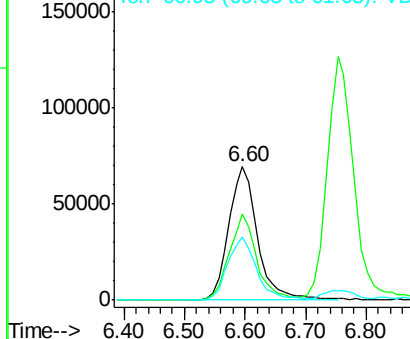
Lab File: VD060815.D

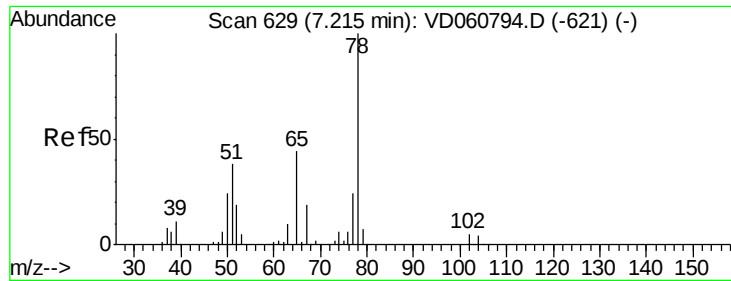
Acq: 1 Feb 2019 13:17

Tgt Ion:	97	Resp:	228051
Ion Ratio	Lower	Upper	
97	100		
99	64.9	49.6	74.4
61	47.6	37.4	56.2



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





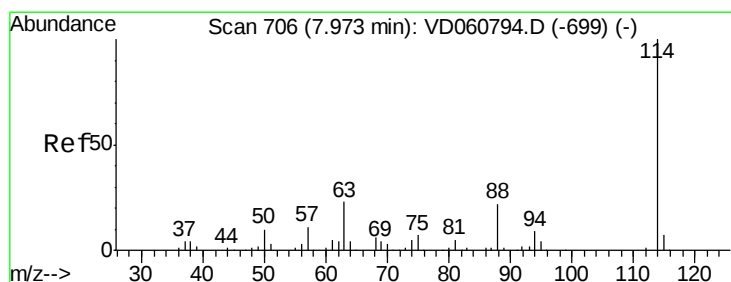
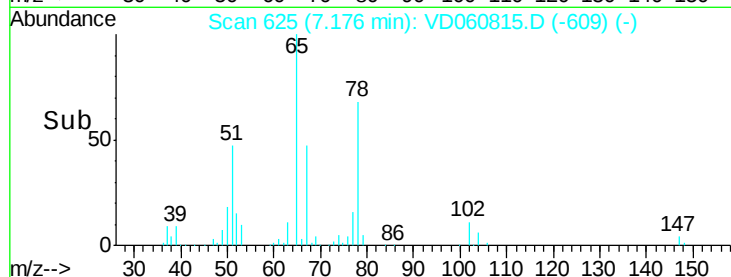
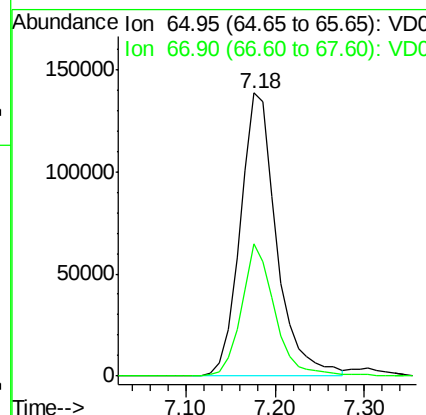
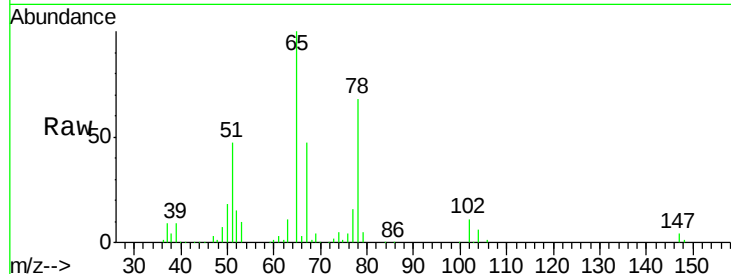
#33
 1,2-Dichloroethane-d4
 Concen: 19.304 ug/l
 RT: 7.18 min Scan# 625
 Delta R.T. -0.04 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	46.7	0.0	85.8	

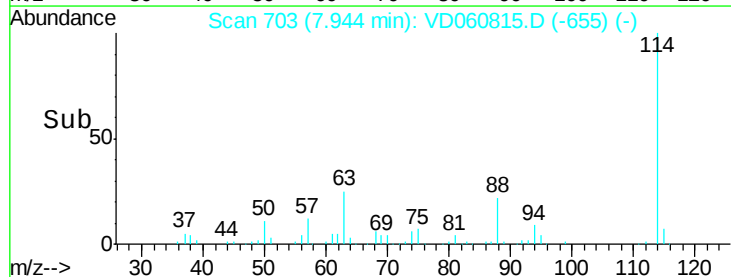
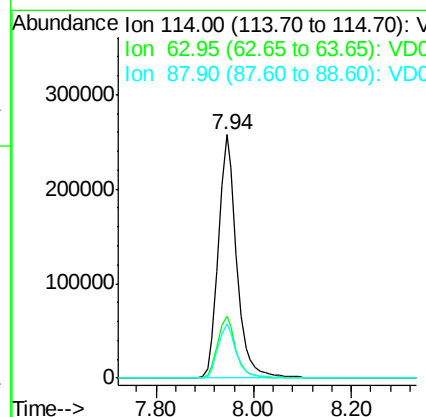
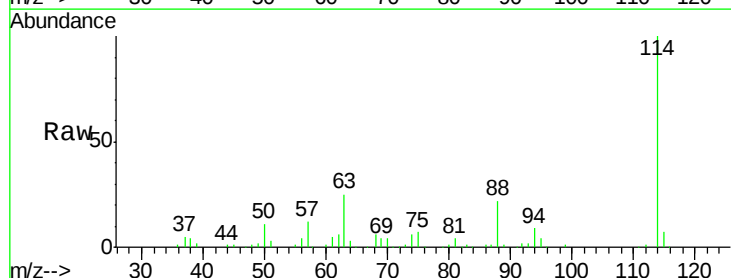
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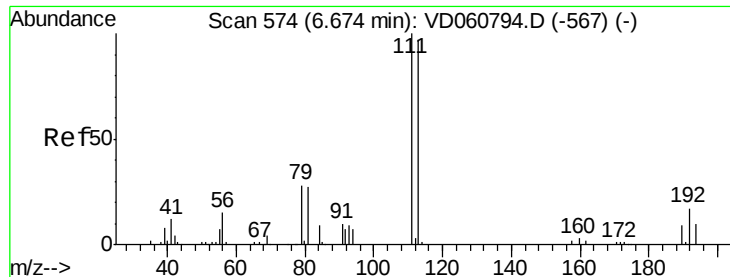
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.94 min Scan# 703
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	25.3	0.0	46.6	
88	22.1	0.0	44.0	





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.64 min Scan# 571

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

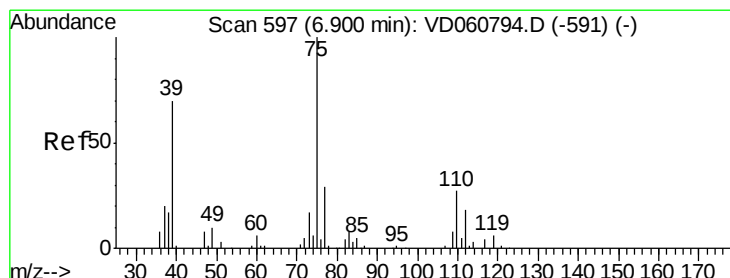
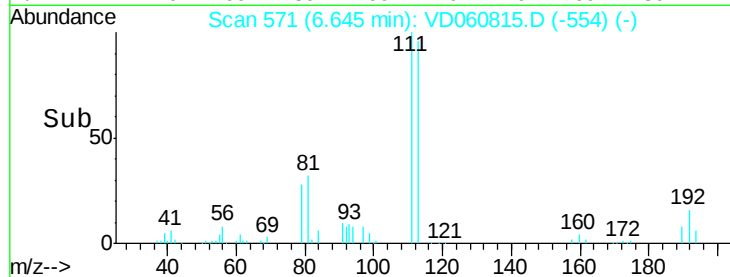
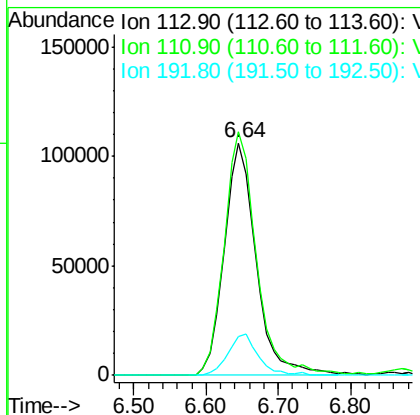
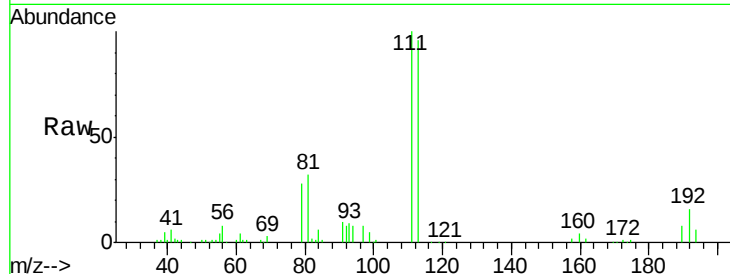
ClientSampleId :

VD0201SBS01

Tot Ion:	113	Resp:	325129
Ion Ratio	Lower	Upper	
113	100		
111	104.7	82.3	123.5
192	16.8	14.4	21.6

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#36

1,1-Dichloropropene

Concen: 18.934 ug/l

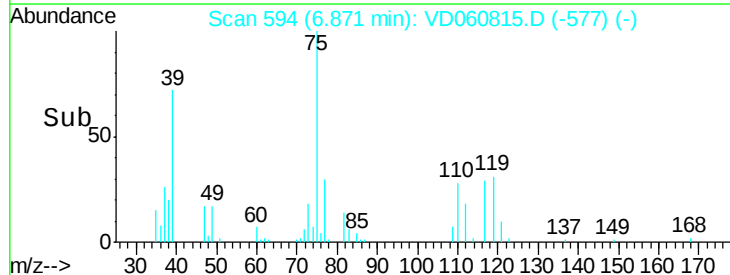
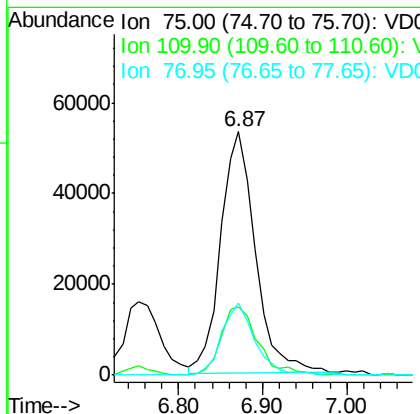
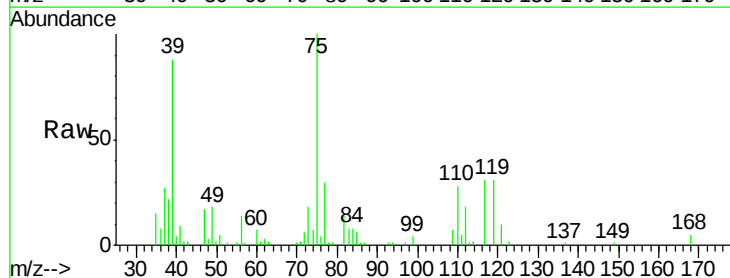
RT: 6.87 min Scan# 594

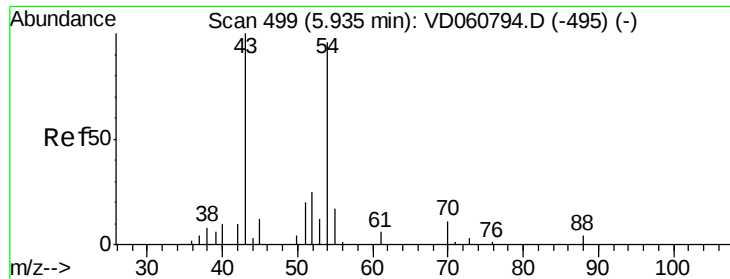
Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion:	75	Resp:	152699
Ion Ratio	Lower	Upper	
75	100		
110	28.2	13.5	40.4
77	29.7	23.4	35.2





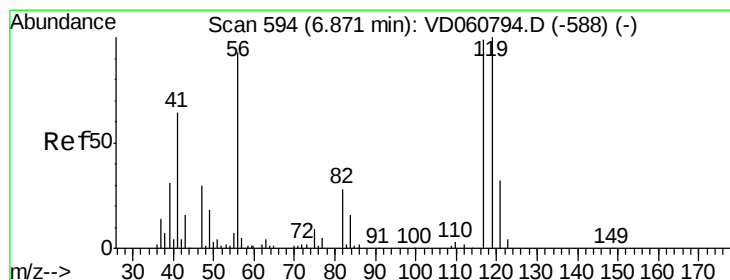
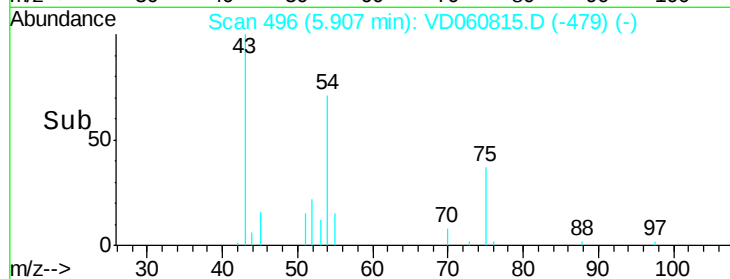
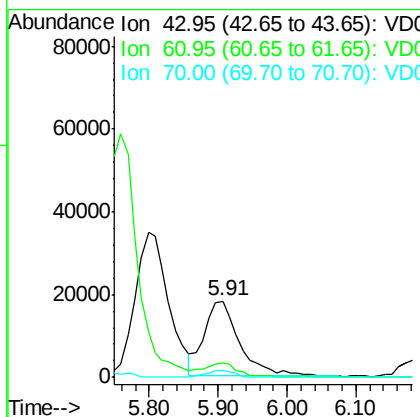
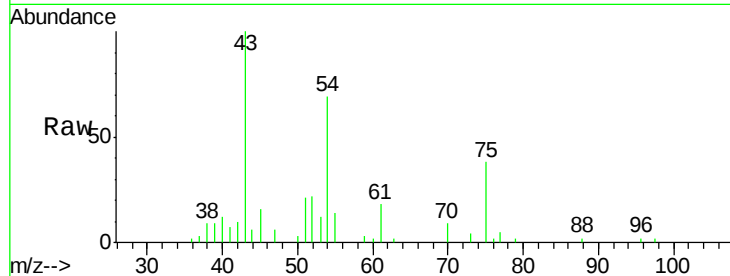
#37
Ethyl Acetate
Concen: 17.811 ug/l
RT: 5.91 min Scan# 496
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.4	12.3	18.5
70	9.5	7.4	11.0

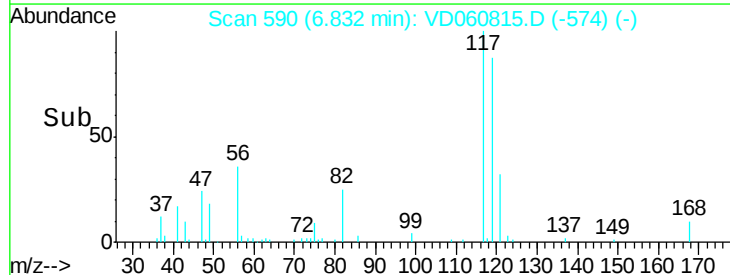
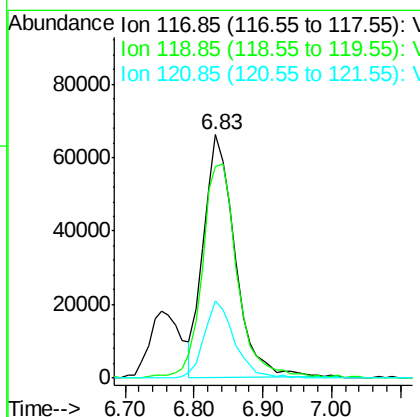
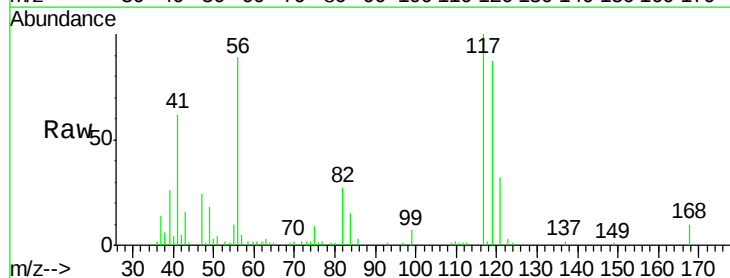
Manual Integrations
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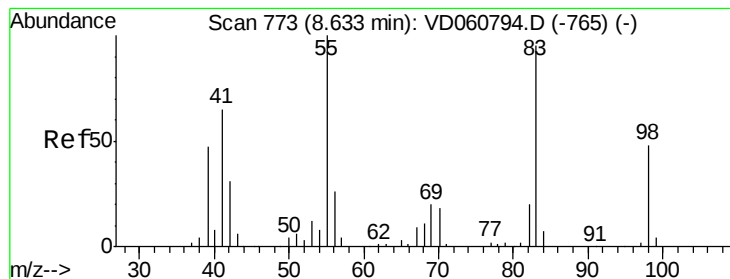
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#38
Carbon Tetrachloride
Concen: 20.757 ug/l
RT: 6.83 min Scan# 590
Delta R.T. -0.04 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	86.8	75.6	113.4
121	31.7	23.4	35.2





#39

Methvlcvclohexane

Concen: 18.210 ug/l

RT: 8.60 min Scan# 770

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

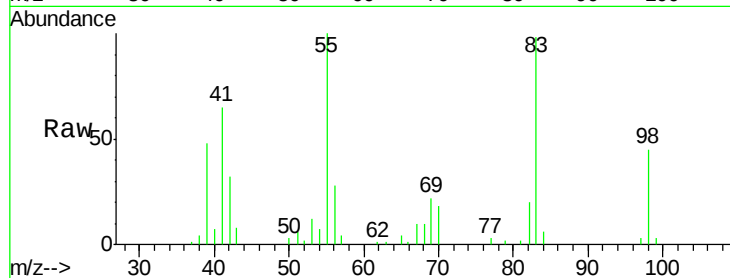
VD0201SBSD01

Tot Ion: 83 Resp: 122986

Ion	Ratio	Lower	Upper
83	100		
55	101.9	83.8	125.8
98	46.1	39.8	59.8

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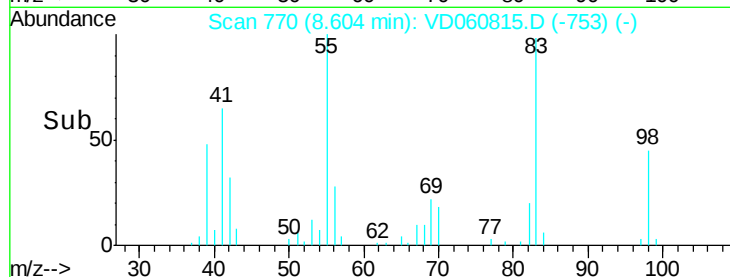


Abundance Ion 83.05 (82.75 to 83.75): VDC

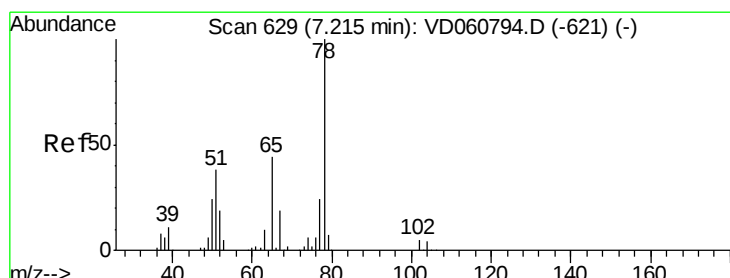
Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

Time-->



Time-->



#40

Benzene

Concen: 17.850 ug/l

RT: 7.19 min Scan# 626

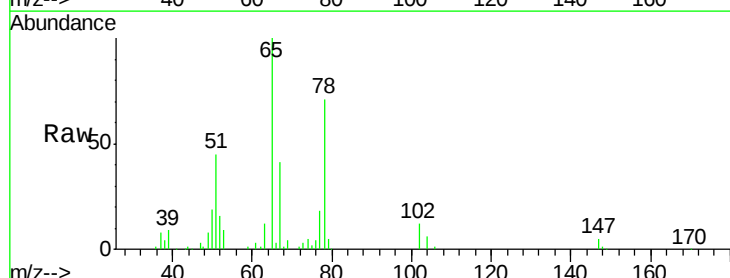
Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion: 78 Resp: 284109

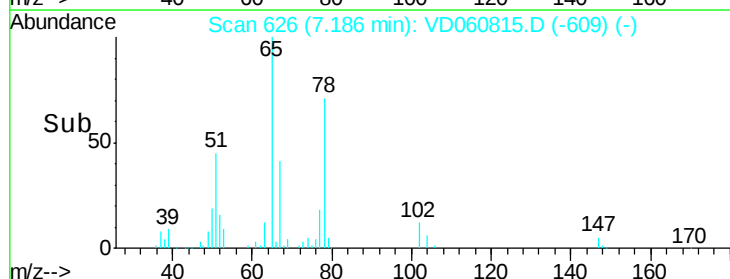
Ion	Ratio	Lower	Upper
78	100		
77	25.4	18.9	28.3



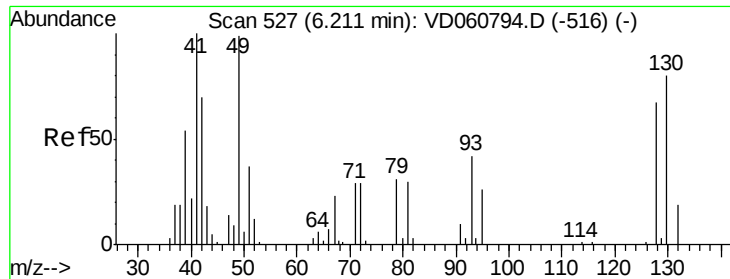
Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

Time-->



Time-->



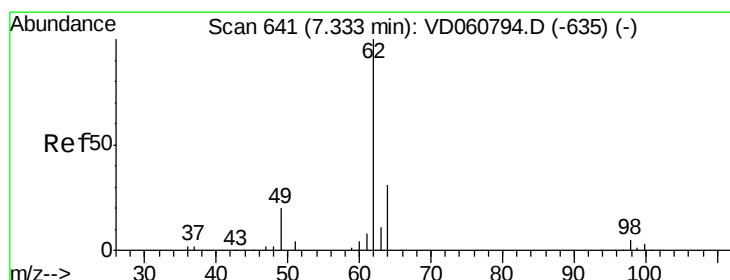
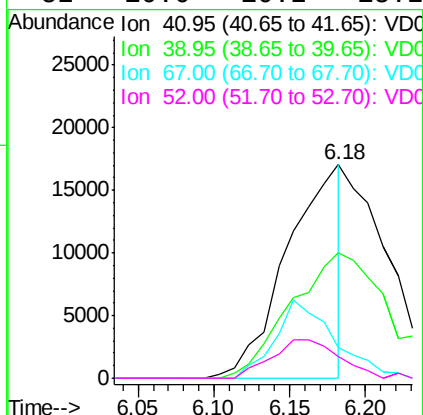
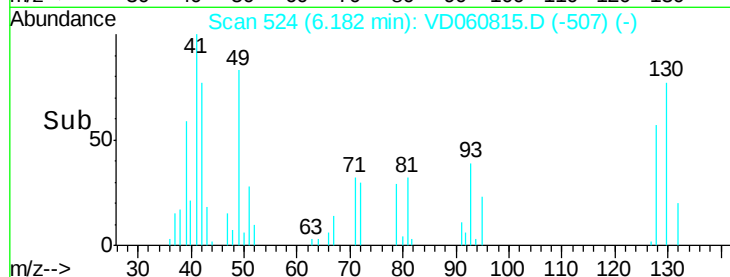
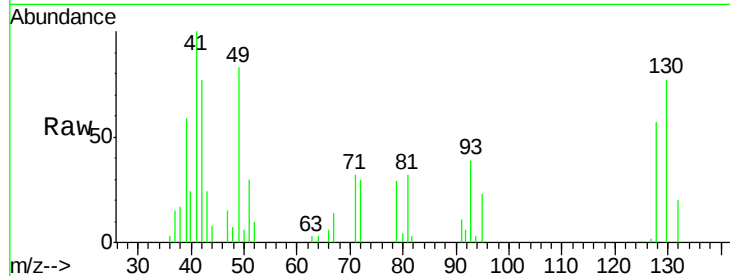
#41
Methacrylonitrile
Concen: 19.271 ug/l m
RT: 6.18 min Scan# 524
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.6	43.6	65.4	
67	14.4	18.5	27.7	
52	10.0	10.2	15.2	

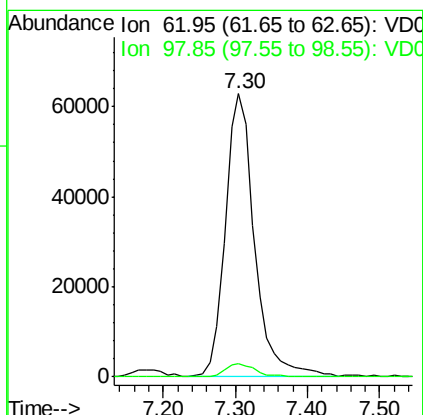
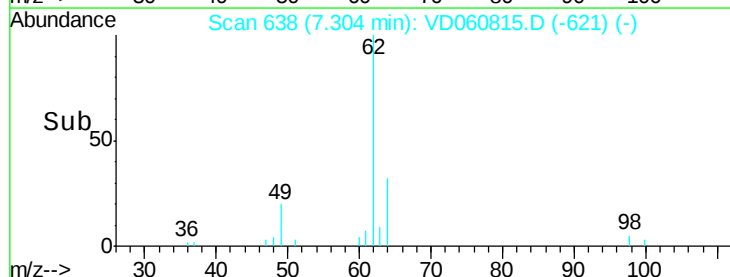
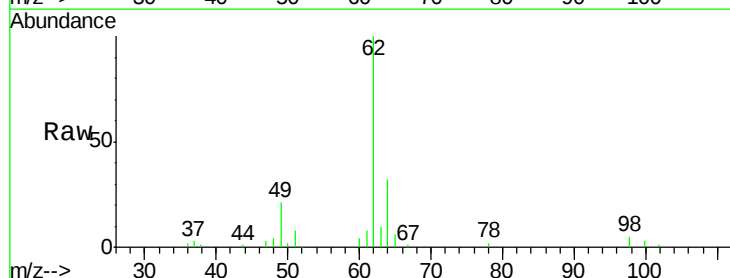
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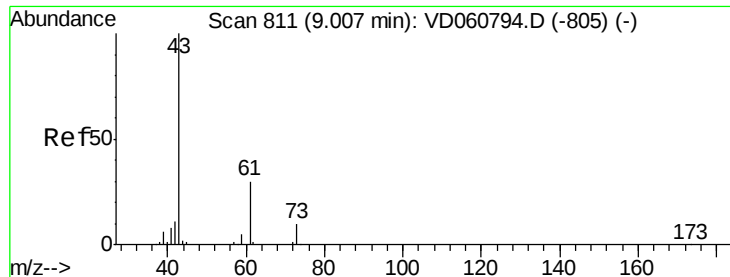
MMDadoda
2/4/2019 4:42:53 PM



#42
1,2-Dichloroethane
Concen: 19.117 ug/l
RT: 7.30 min Scan# 638
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	4.7	0.0	10.2	





#43

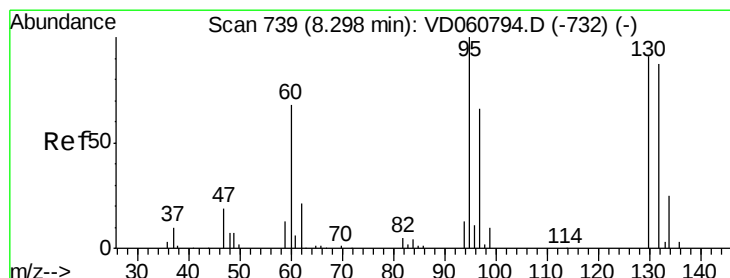
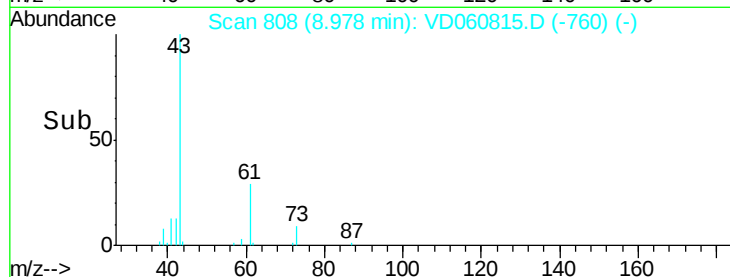
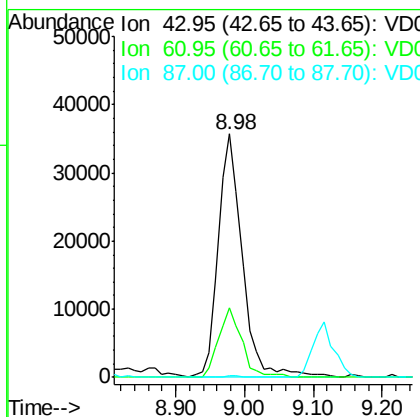
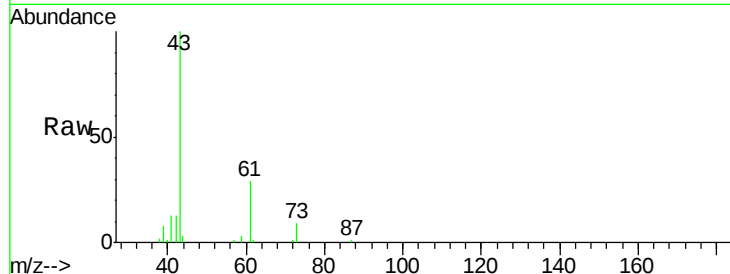
Isopropyl Acetate
 Concen: 18.512 ug/l
 RT: 8.98 min Scan# 808
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	24.1	36.1
87	0.9	0.0	0.0

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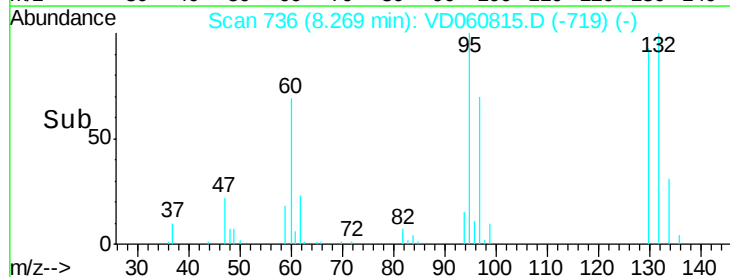
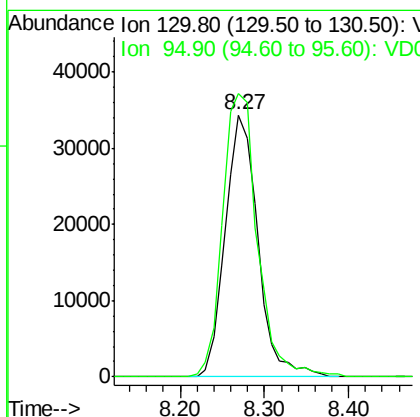
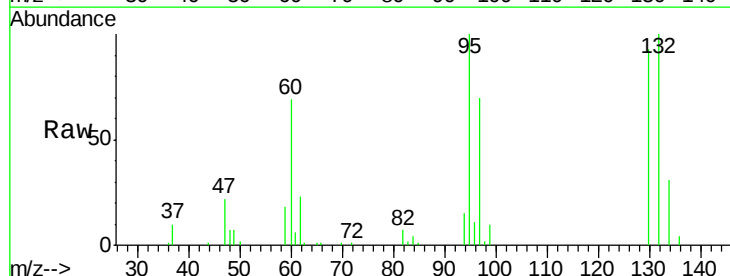
MMDadoda
 2/4/2019 4:42:53 PM

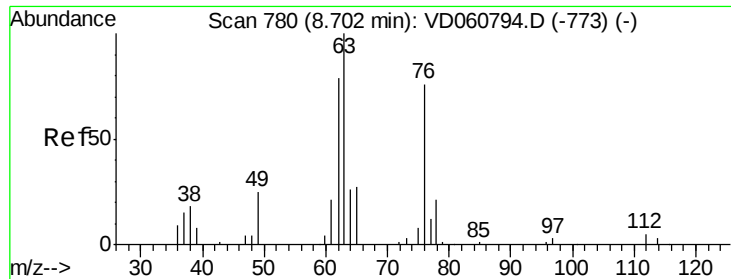


#44

Trichloroethene
 Concen: 17.201 ug/l
 RT: 8.27 min Scan# 736
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	221.0





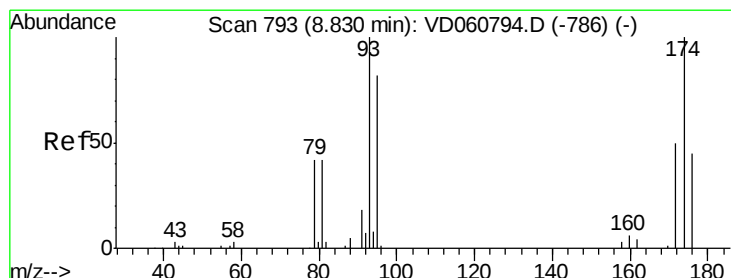
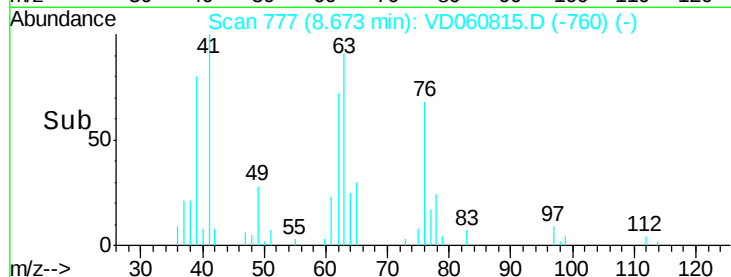
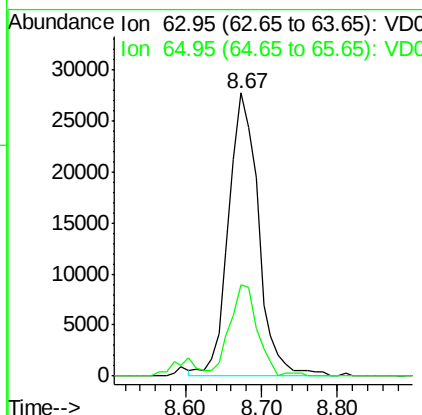
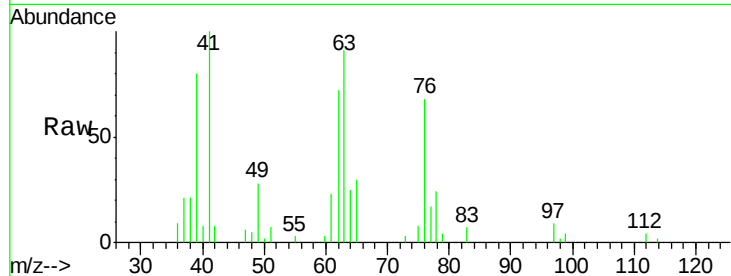
#45
 1,2-Dichloropropane
 Concen: 17.624 ug/l
 RT: 8.67 min Scan# 777
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBSD01

Tot Ion: 63 Resp: 75936
 Ion Ratio Lower Upper
 63 100
 65 32.4 24.1 36.1

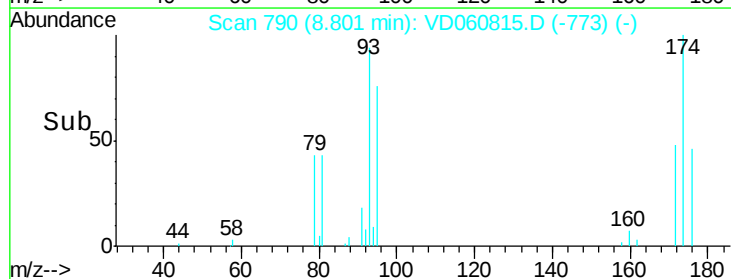
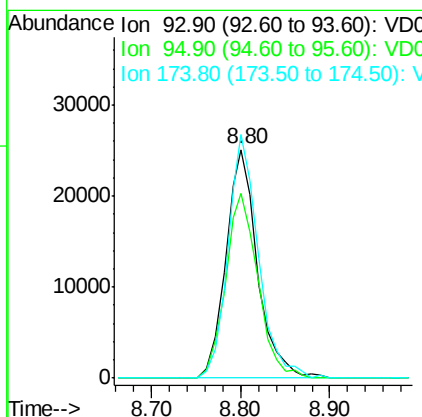
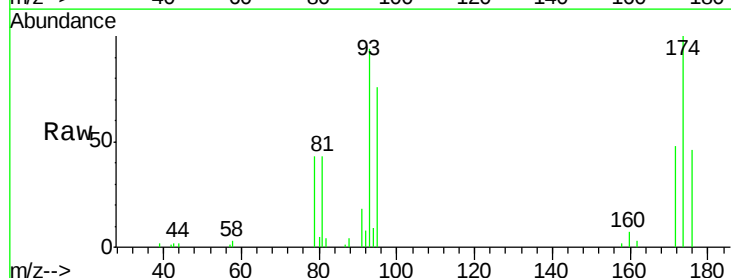
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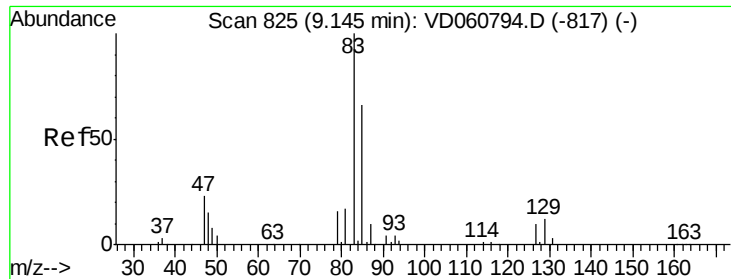
MMDadoda
 2/4/2019 4:42:53 PM



#46
 Dibromomethane
 Concen: 18.609 ug/l
 RT: 8.80 min Scan# 790
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion: 93 Resp: 62242
 Ion Ratio Lower Upper
 93 100
 95 80.7 65.8 98.8
 174 106.7 79.8 119.6





#47

Bromodichloromethane

Concen: 19.366 ug/l

RT: 9.12 min Scan# 822

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

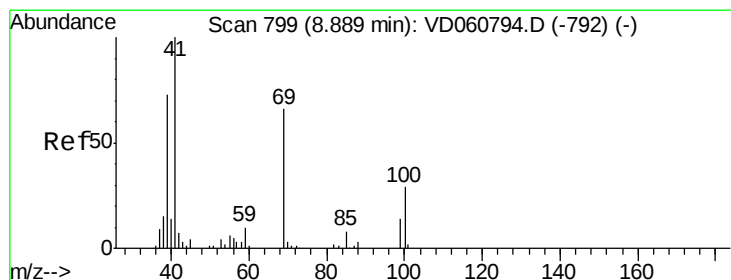
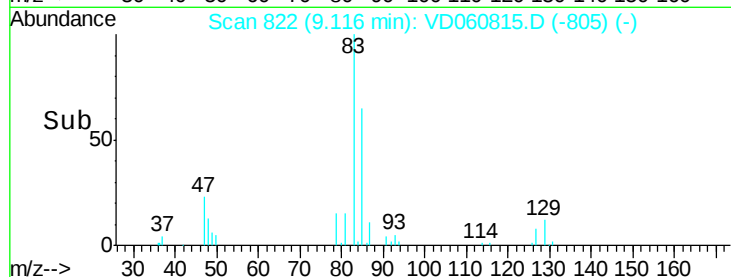
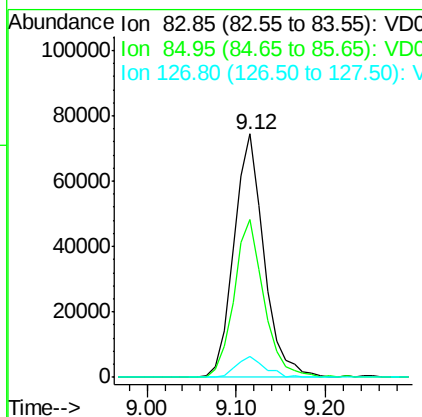
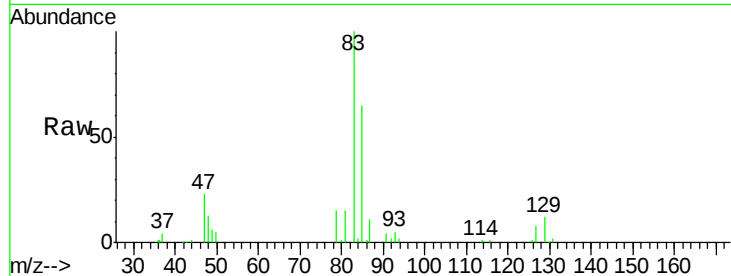
ClientSampleId :

VD0201SBSD01

Tot Ion:	83	Resp:	174838
Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.6	79.0
127	8.5	7.7	11.5

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.934 ug/l

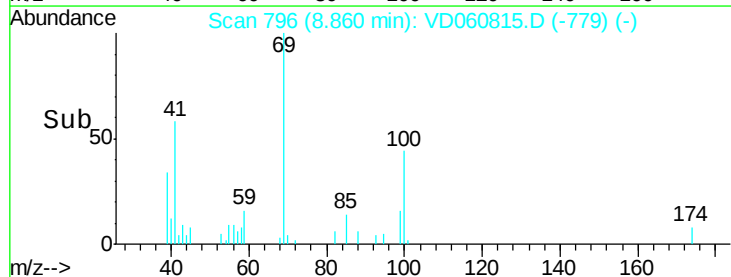
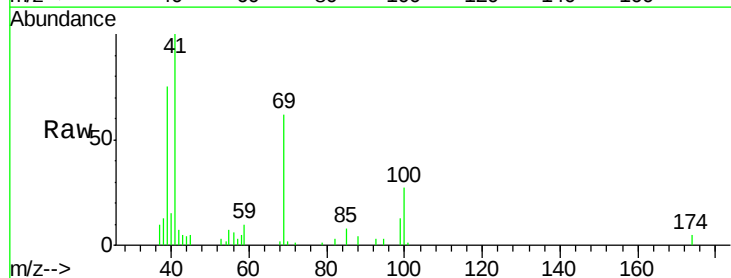
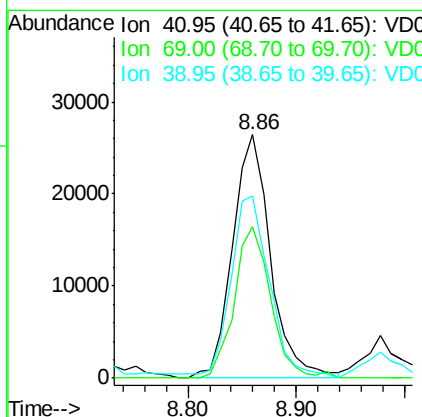
RT: 8.86 min Scan# 796

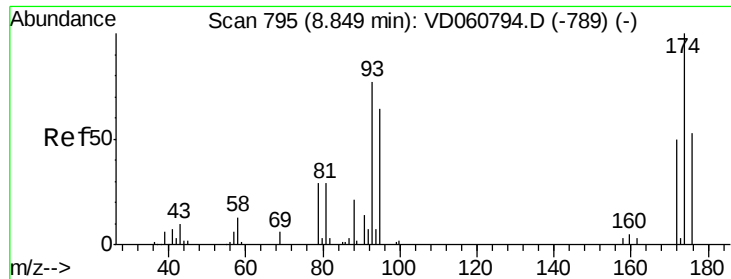
Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion:	41	Resp:	64542
Ion	Ratio	Lower	Upper
41	100		
69	62.1	52.5	78.7
39	74.8	59.0	88.6





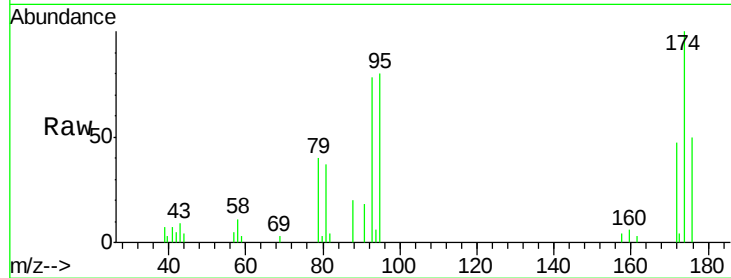
#49
1,4-Dioxane
Concen: 362.361 ug/l
RT: 8.82 min Scan# 792
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

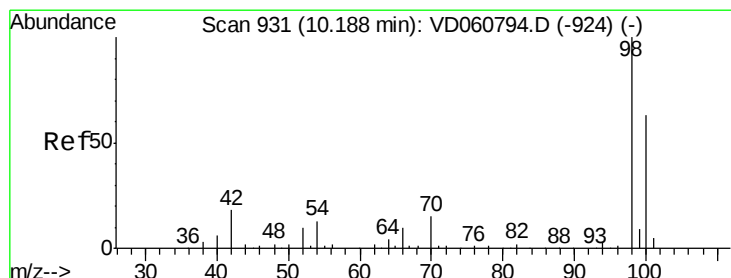
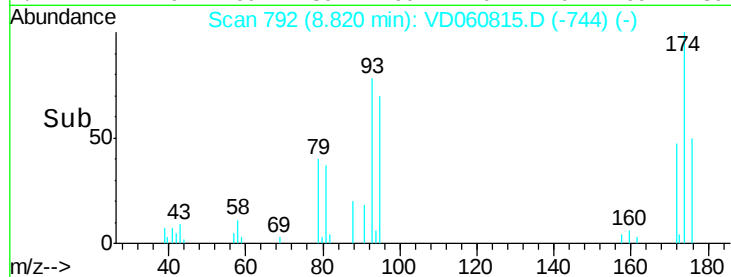
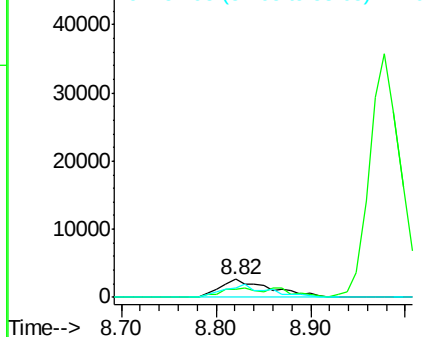
Tot Ion	88	Resp	9564
Ion Ratio	100	Lower	Upper
88	100		
43	45.7	40.9	61.3
58	55.4	52.2	78.4

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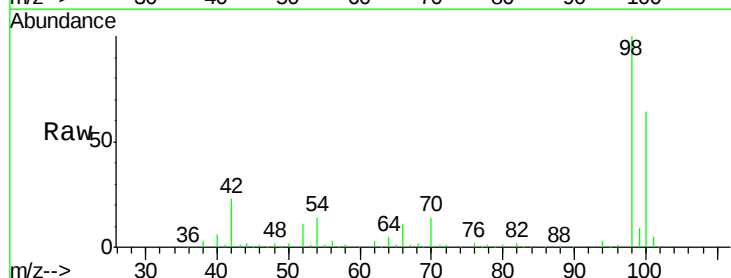


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

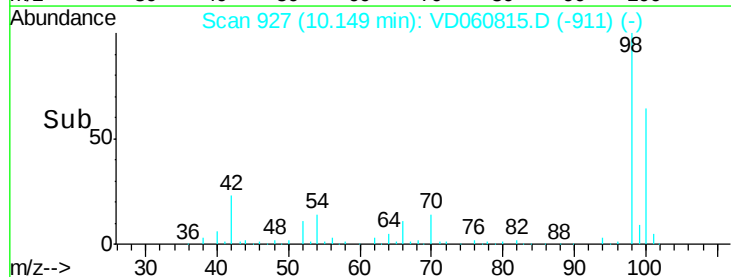
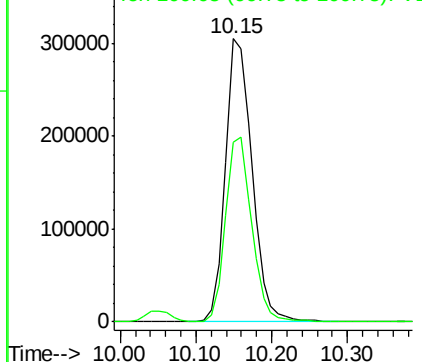


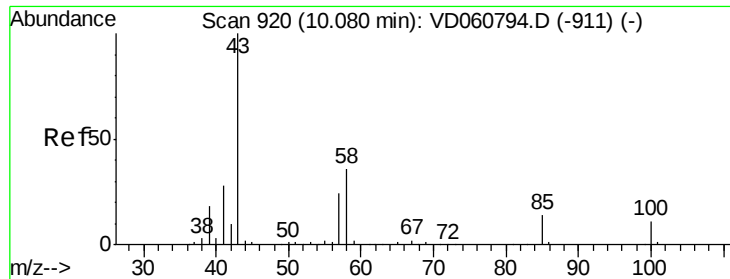
#50
Toluene-d8
Concen: 362.361 ug/l
RT: 10.15 min Scan# 927
Delta R.T. -0.04 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	98	Resp	742423
Ion Ratio	100	Lower	Upper
98	100		
100	63.6	51.0	76.6



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 91.732 ug/l

RT: 10.05 min Scan# 917

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleID :

VD0201SBS01

Tot Ion: 43 Resp: 278923

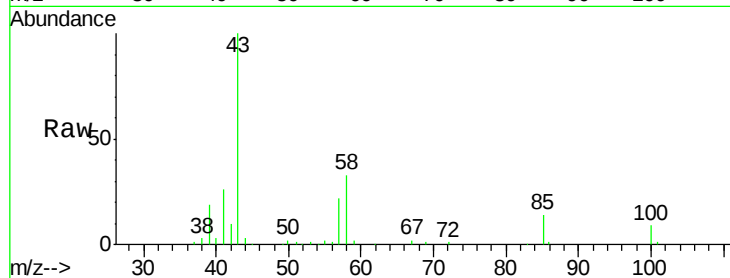
Ion Ratio Lower Upper

43 100

58 33.1 28.4 42.6

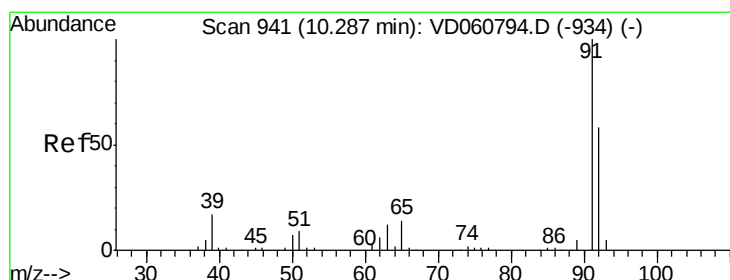
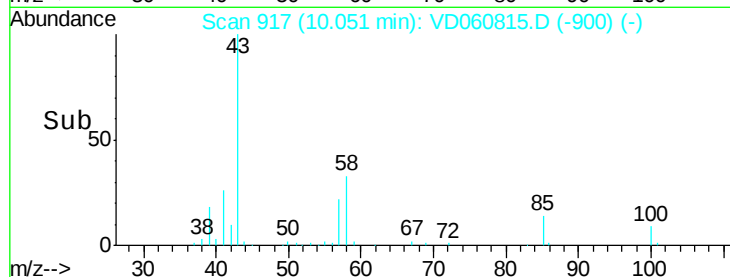
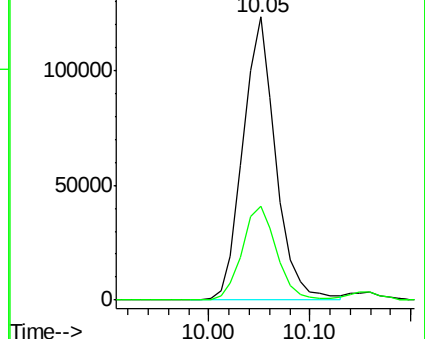
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 18.413 ug/l

RT: 10.26 min Scan# 938

Delta R.T. -0.03 min

Lab File: VD060815.D

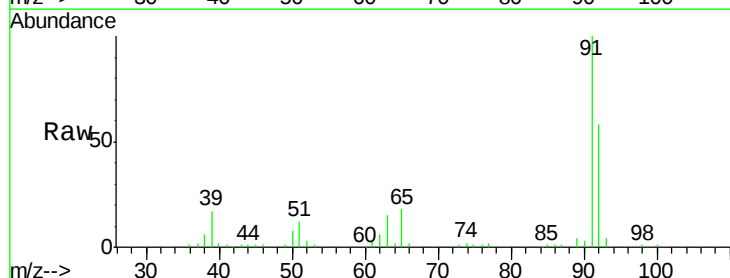
Acq: 1 Feb 2019 13:17

Tgt Ion: 92 Resp: 185900

Ion Ratio Lower Upper

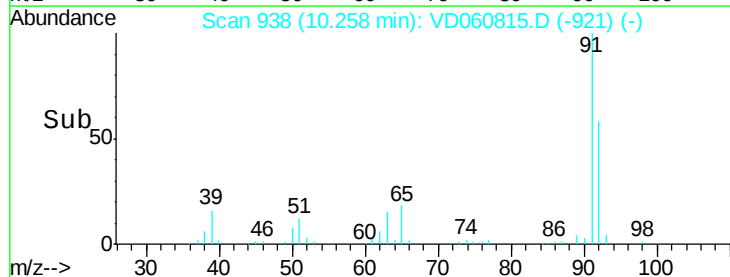
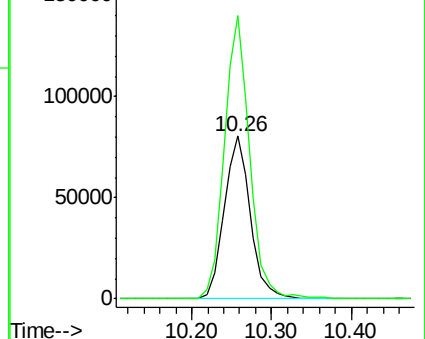
92 100

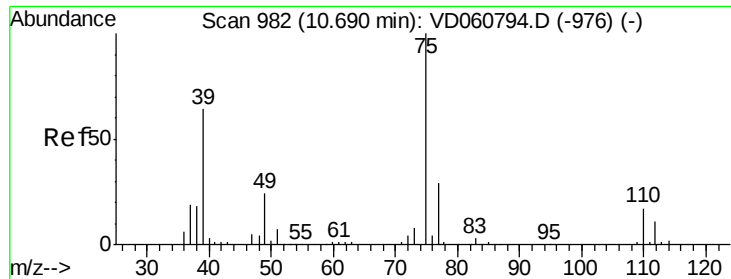
91 173.9 137.7 206.5



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: 19.547 ug/l

RT: 10.66 min Scan# 979

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tot Ion: 75 Resp: 155233

Ion Ratio Lower Upper

75 100

77 33.5 23.0 34.6

Instrument :

MSVOA_D

ClientSampleId :

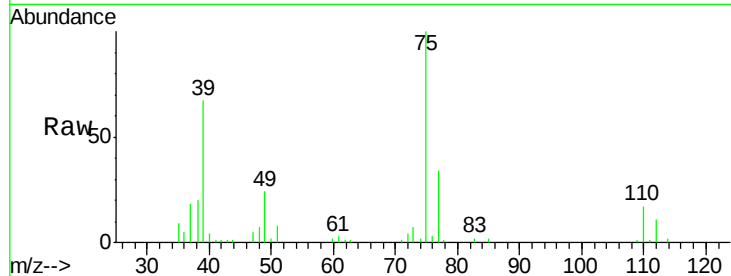
VD0201SBS01

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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.66

80000

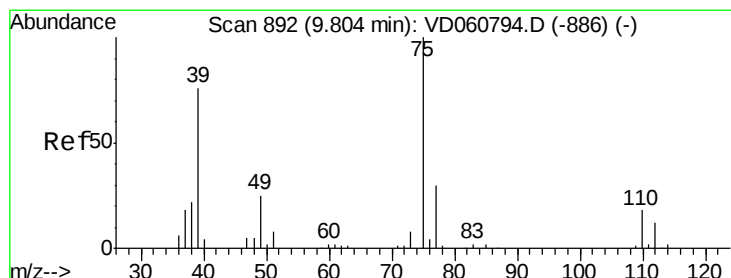
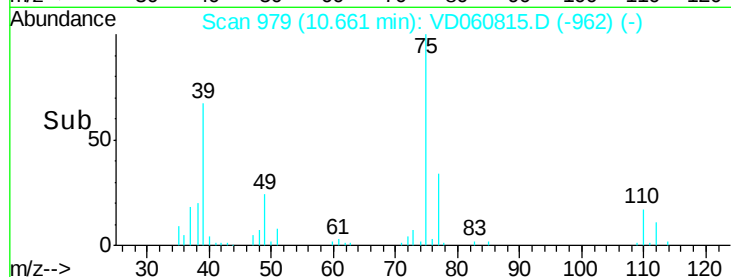
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.630 ug/l

RT: 9.79 min Scan# 890

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

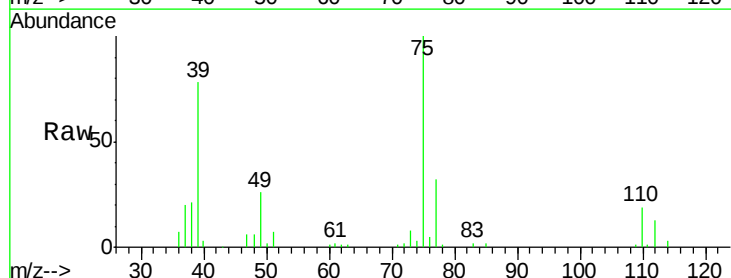
Tgt Ion: 75 Resp: 159860

Ion Ratio Lower Upper

75 100

77 32.2 23.9 35.9

39 78.2 60.4 90.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

9.79

80000

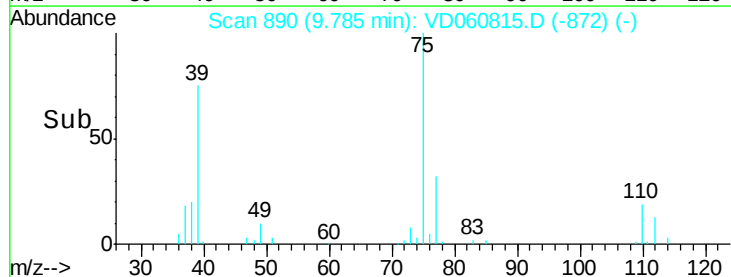
60000

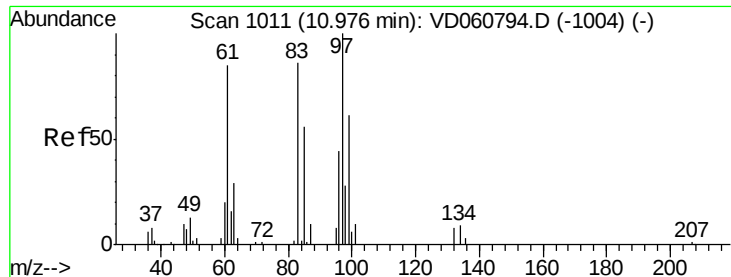
40000

20000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 17.878 ug/l

RT: 10.95 min Scan# 1008

Delta R.T. -0.03 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

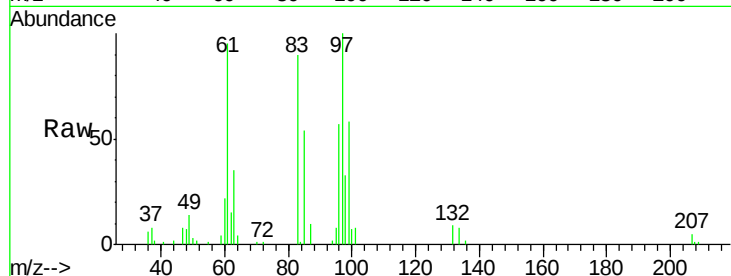
ClientSampleId :

VD0201SBS01

Tot Ion:	97	Resp:	61540
Ion	Ratio	Lower	Upper
97	100		
83	89.7	68.5	102.7
85	53.7	45.0	67.6
99	57.6	49.0	73.4

Manual Integrations
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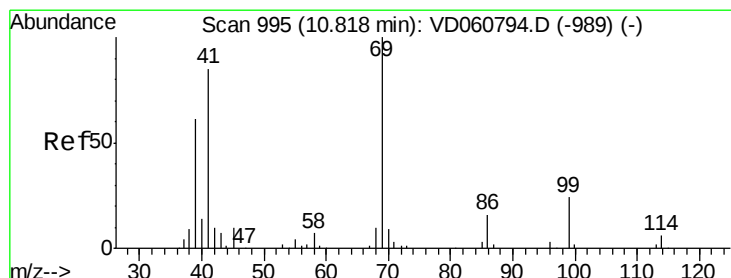
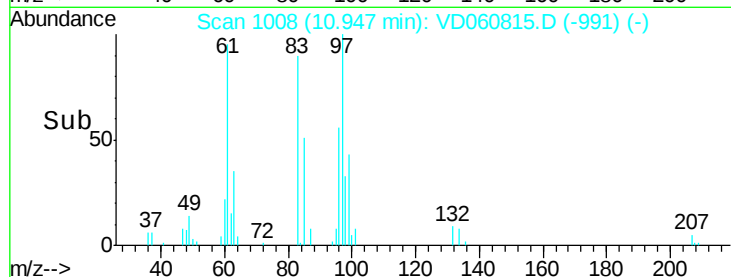
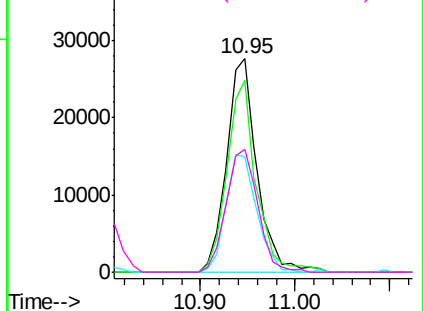


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 17.982 ug/l

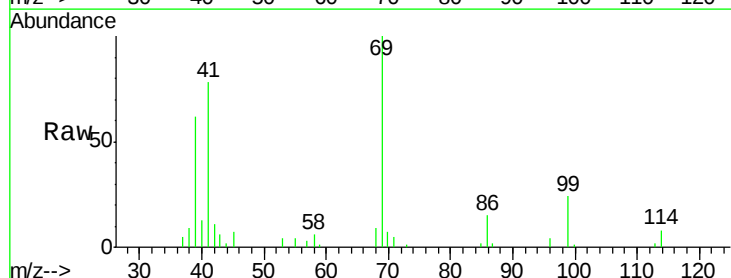
RT: 10.80 min Scan# 993

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

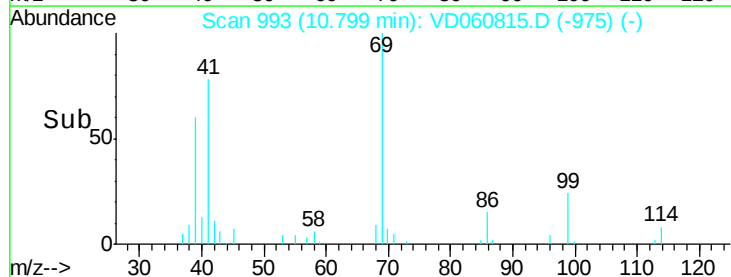
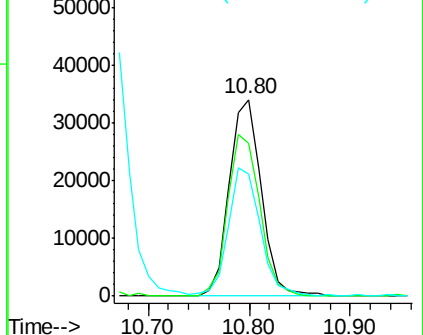
Tgt Ion:	69	Resp:	74985
Ion	Ratio	Lower	Upper
69	100		
41	78.0	68.2	102.2
39	62.2	49.4	74.0

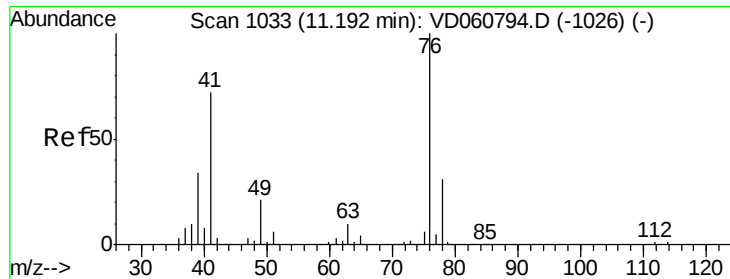


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





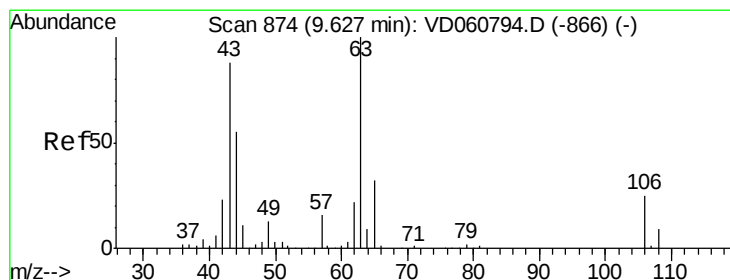
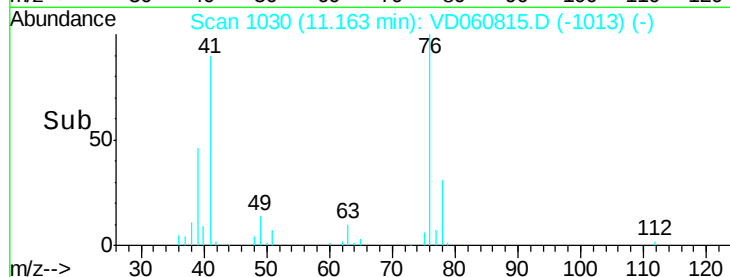
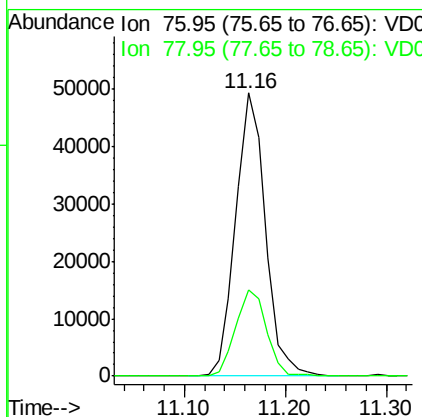
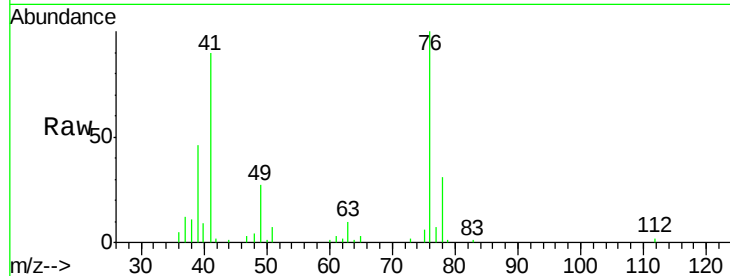
#57
 1,3-Dichloropropane
 Concen: 17.244 ug/l
 RT: 11.16 min Scan# 1030
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion: 76 Resp: 101450
 Ion Ratio Lower Upper
 76 100
 78 30.6 24.5 36.7

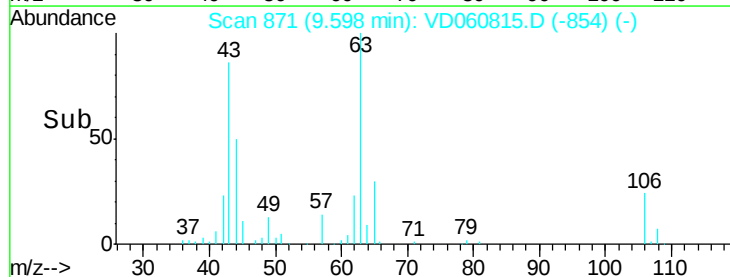
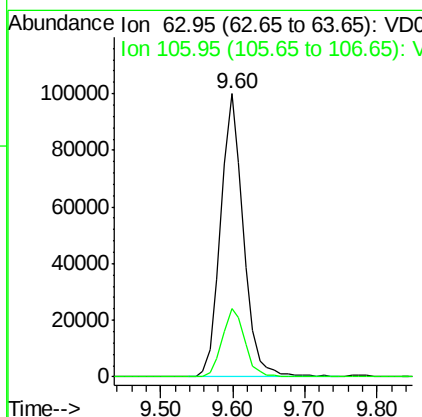
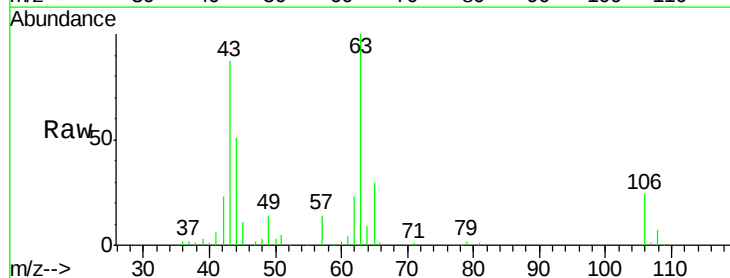
Manual Integrations
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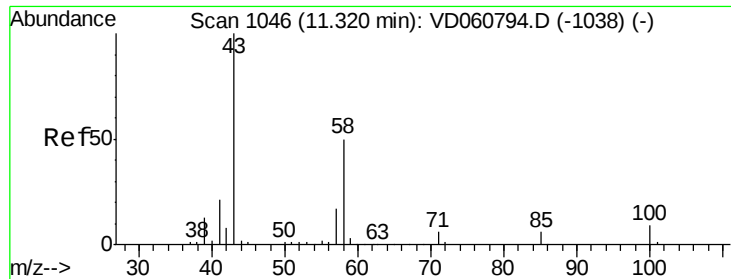
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 99.056 ug/l
 RT: 9.60 min Scan# 871
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion: 63 Resp: 216730
 Ion Ratio Lower Upper
 63 100
 106 24.3 19.9 29.9





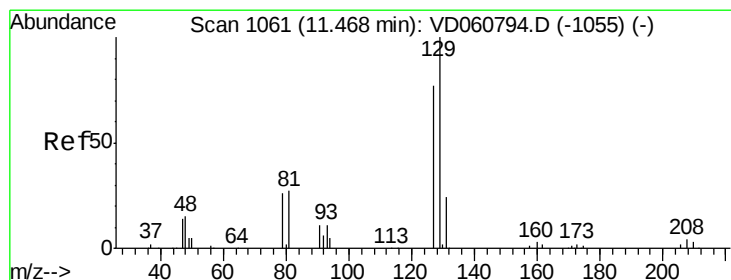
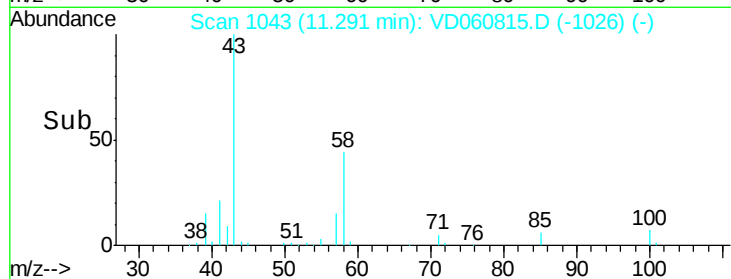
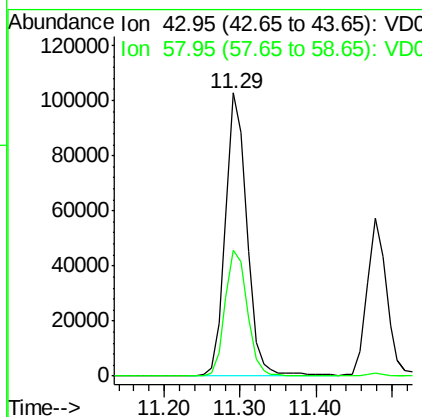
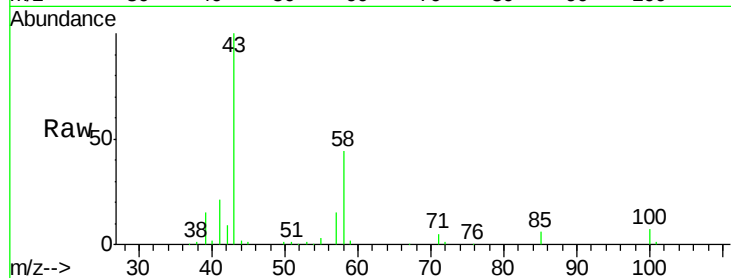
#59
2-Hexanone
Concen: 88.764 ug/l
RT: 11.29 min Scan# 1043
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion: 43 Resp: 202938
Ion Ratio Lower Upper
43 100
58 44.4 25.0 75.0

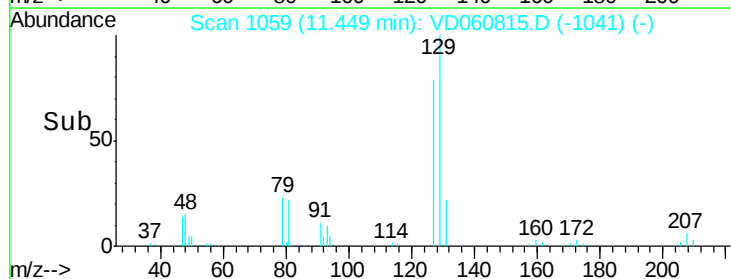
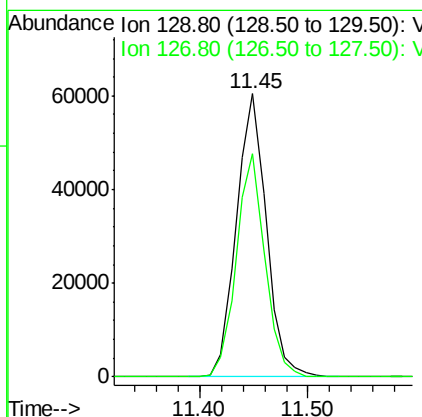
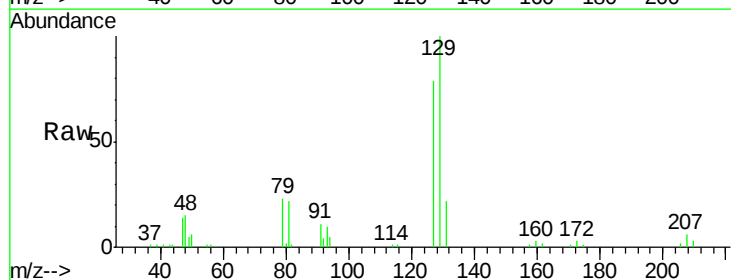
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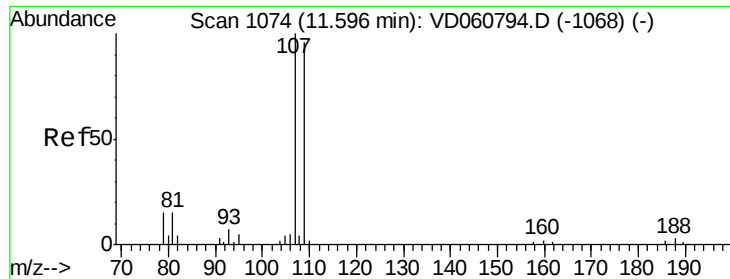
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#60
Dibromochloromethane
Concen: 18.769 ug/l
RT: 11.45 min Scan# 1059
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion:129 Resp: 116154
Ion Ratio Lower Upper
129 100
127 79.0 38.6 115.7





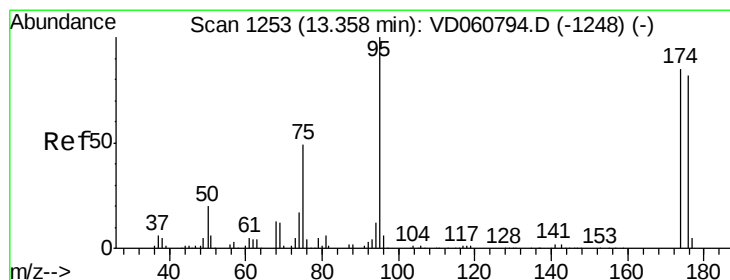
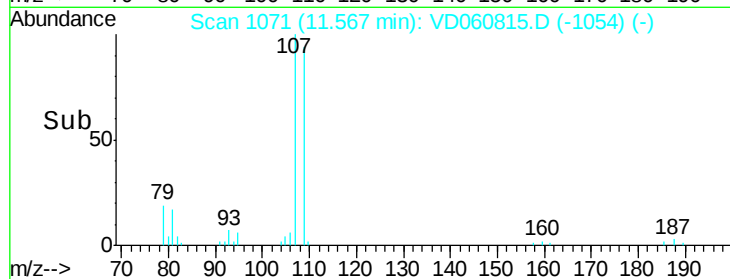
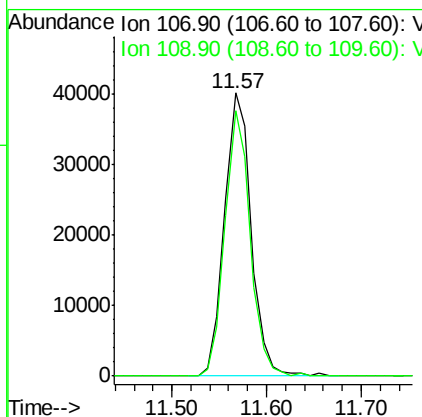
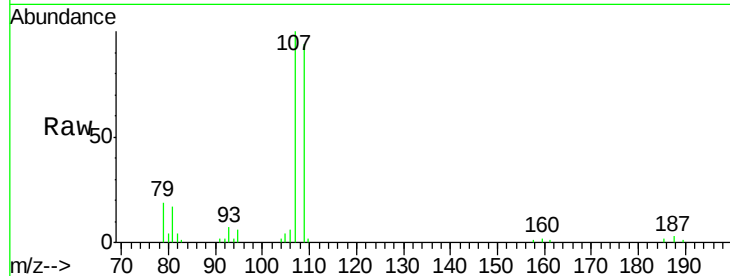
#61
 1,2-Dibromoethane
 Concen: 19.373 ug/l
 RT: 11.57 min Scan# 1071
 Delta R.T. -0.03 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion:107 Resp: 78538
 Ion Ratio Lower Upper
 107 100
 109 93.8 76.6 114.8

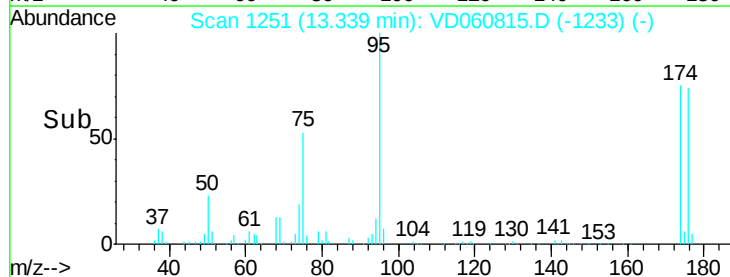
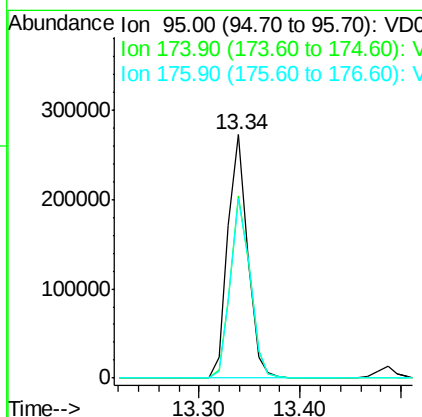
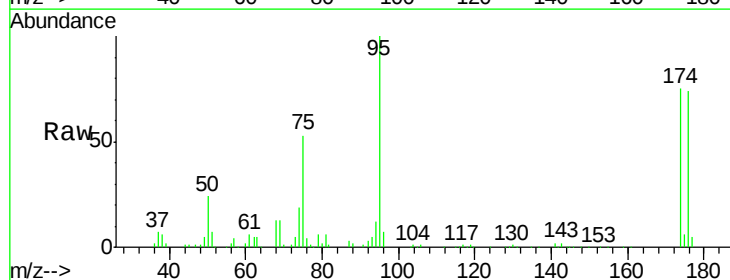
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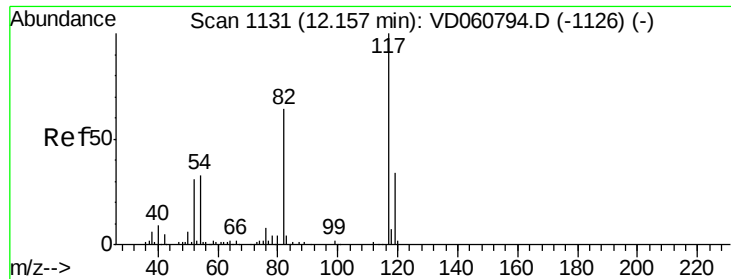
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#62
 4-Bromofluorobenzene
 Concen: 19.373 ug/l
 RT: 13.34 min Scan# 1251
 Delta R.T. -0.02 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion: 95 Resp: 371762
 Ion Ratio Lower Upper
 95 100
 174 75.1 0.0 169.6
 176 73.6 0.0 163.8





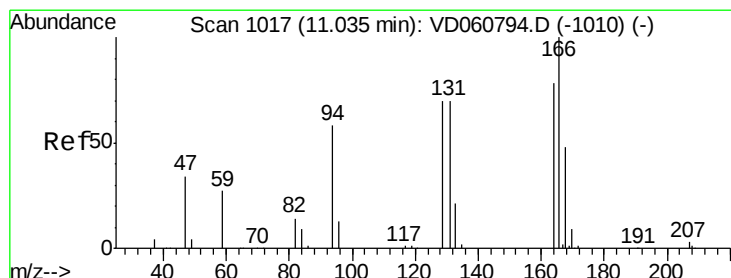
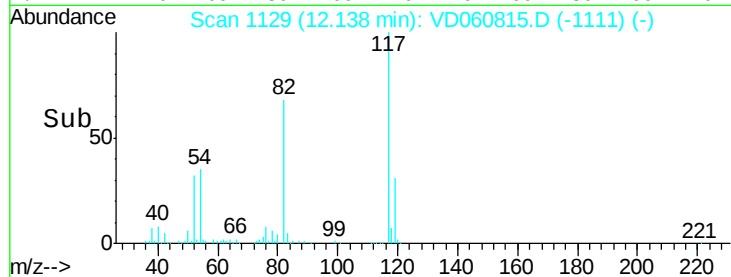
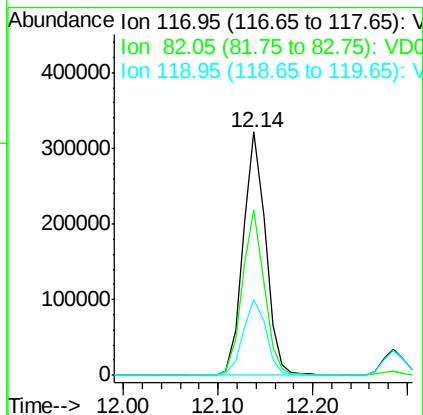
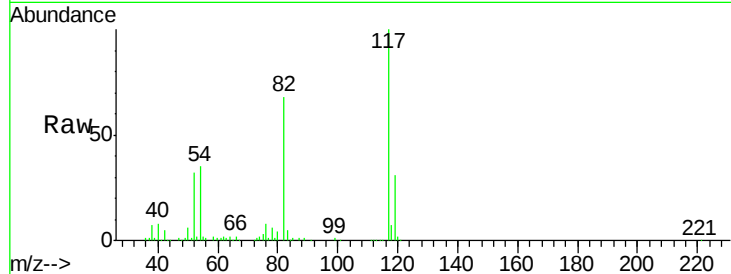
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.14 min Scan# 1129
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	528470		
82	68.0		51.5	77.3
119	31.3		27.1	40.7

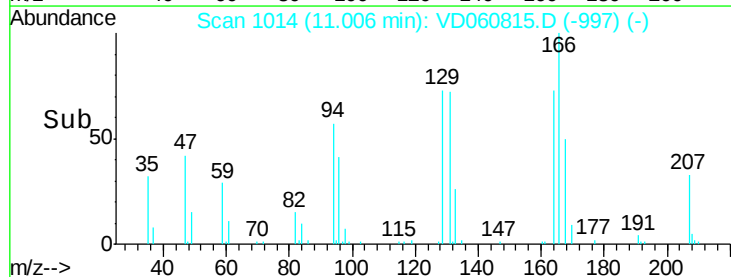
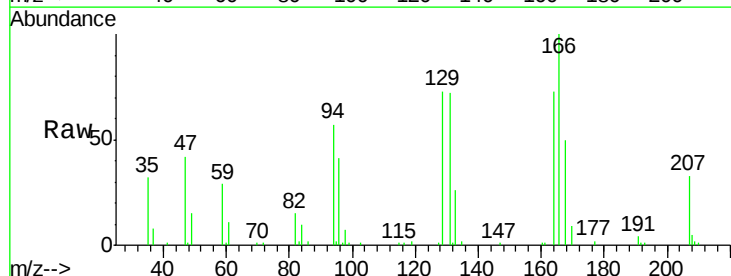
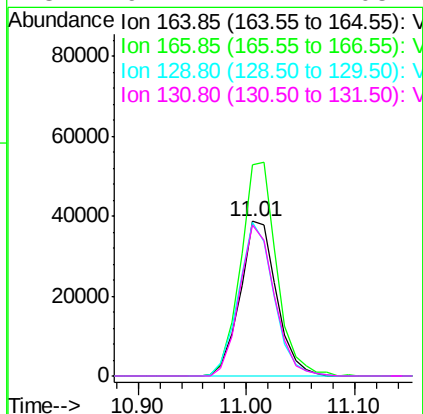
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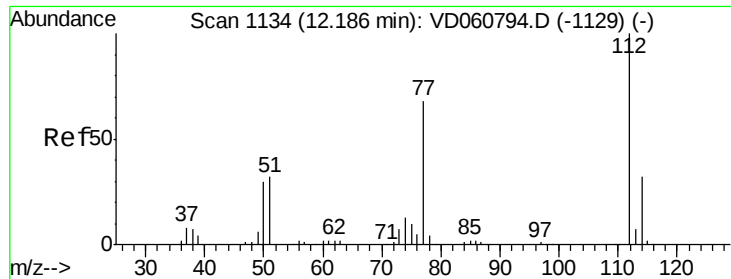
MMDadoda
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#64
Tetrachloroethene
Concen: 18.534 ug/l
RT: 11.01 min Scan# 1014
Delta R.T. -0.03 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	89892		
166	136.3		102.6	154.0
129	99.6		72.3	108.5
131	97.7		72.1	108.1





#65

Chlorobenzene

Concen: 19.185 ug/l

RT: 12.17 min Scan# 1132

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBS01

Tot Ion:112 Resp: 231693

Ion Ratio Lower Upper

112 100

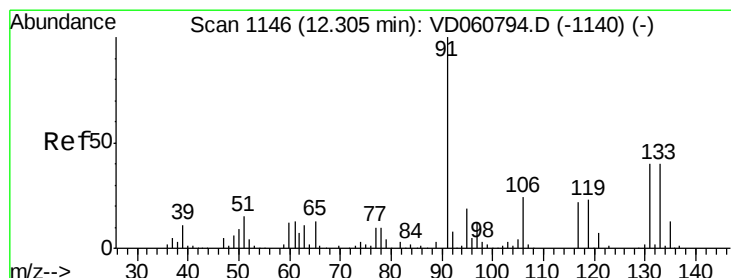
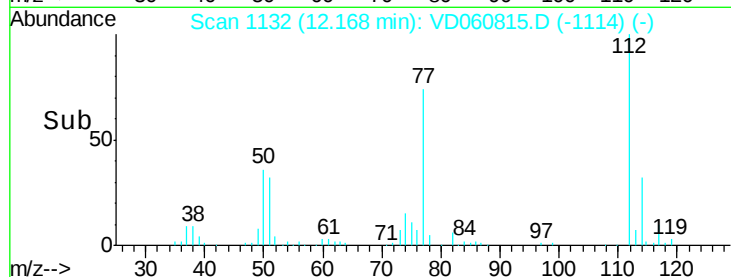
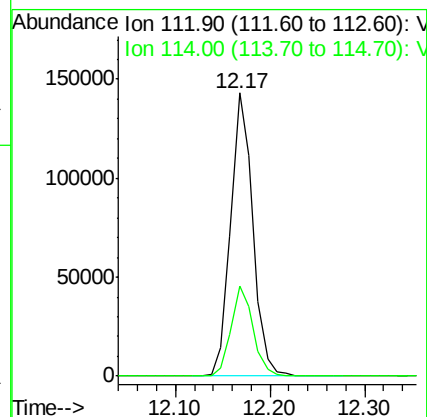
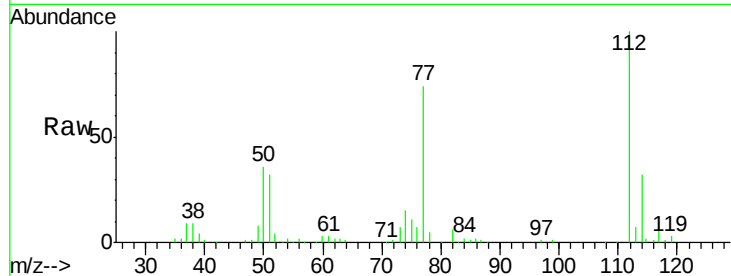
114 31.8 25.2 37.8

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 18.534 ug/l

RT: 12.29 min Scan# 1144

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

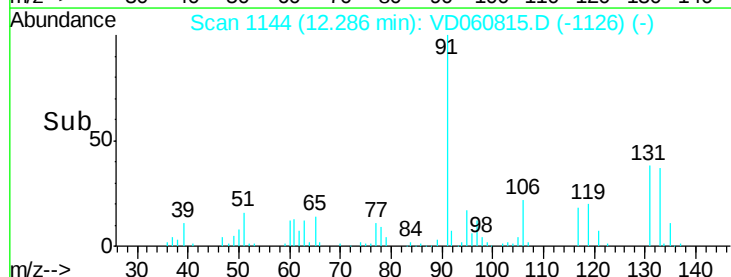
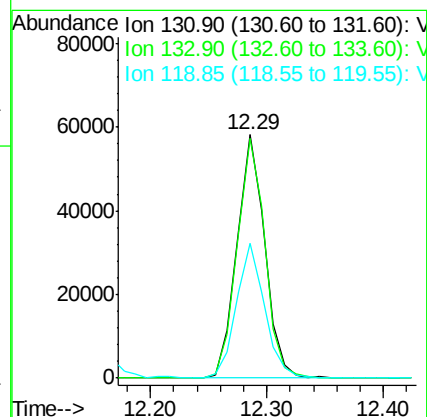
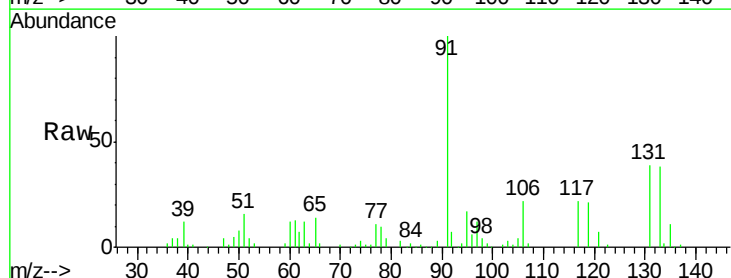
Tgt Ion:131 Resp: 96162

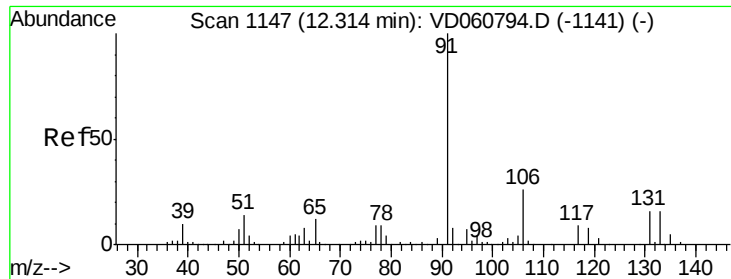
Ion Ratio Lower Upper

131 100

133 98.5 49.9 149.7

119 55.4 28.5 85.5





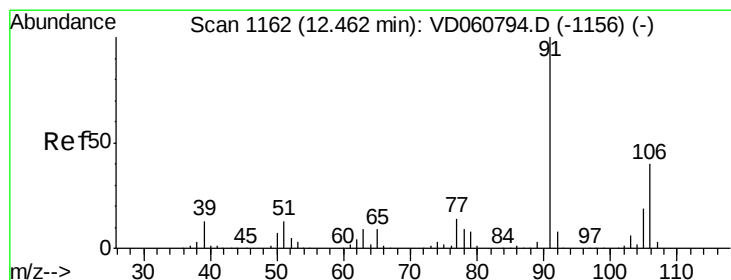
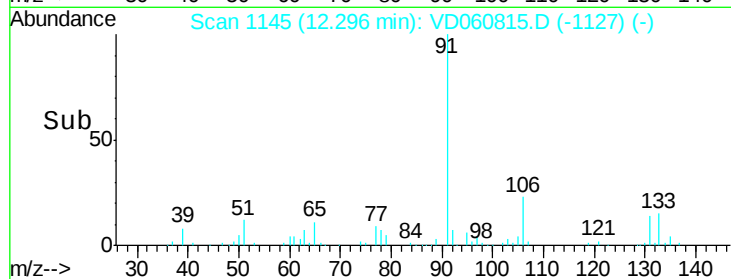
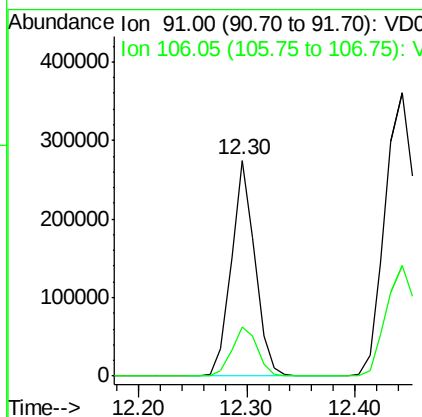
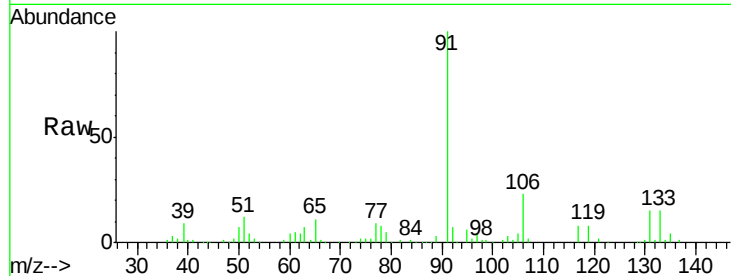
#67
Ethyl Benzene
Concen: 19.229 ug/l
RT: 12.30 min Scan# 1145
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion: 91 Resp: 417578
Ion Ratio Lower Upper
91 100
106 22.9 21.0 31.6

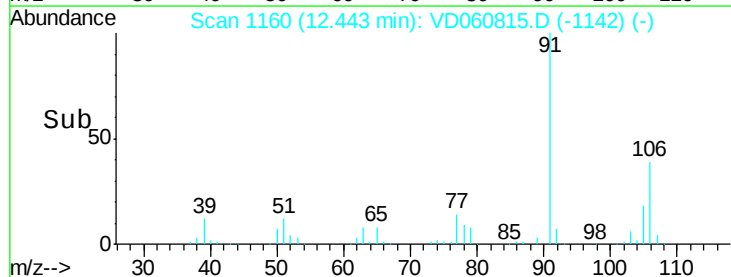
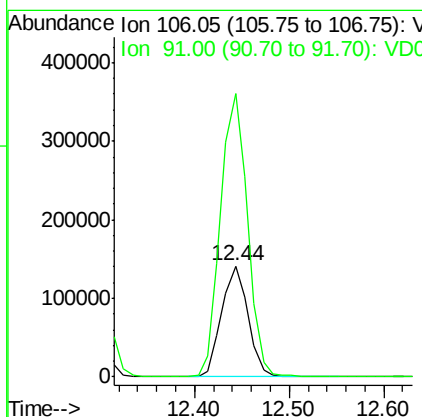
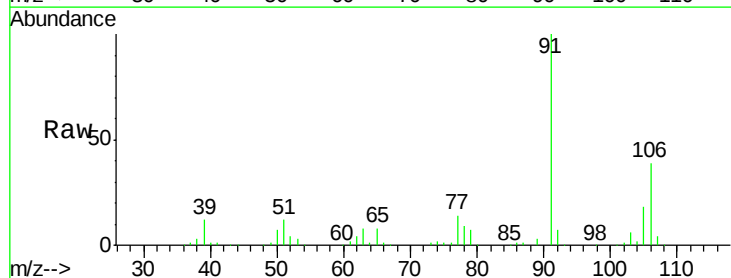
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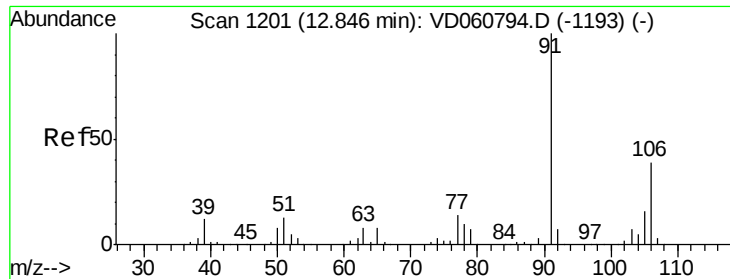
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#68
m/p-Xylenes
Concen: 38.533 ug/l
RT: 12.44 min Scan# 1160
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion: 106 Resp: 272247
Ion Ratio Lower Upper
106 100
91 255.5 200.5 300.7





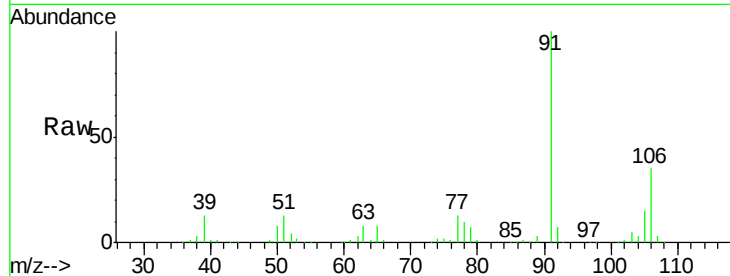
#69
o-Xylene
Concen: 19.276 ug/l
RT: 12.83 min Scan# 1199
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBSD01

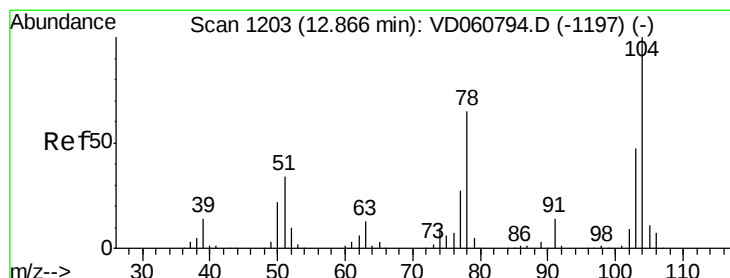
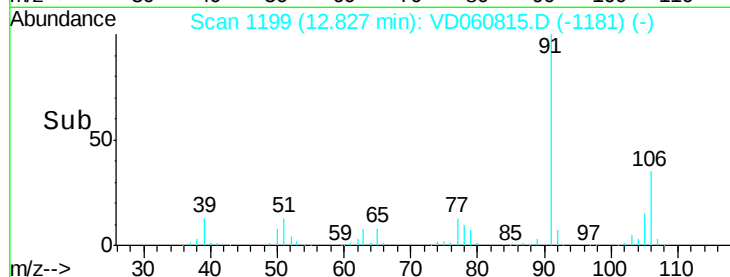
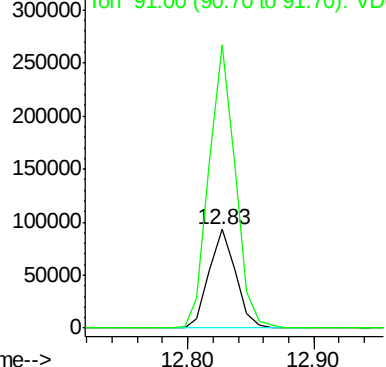
Tot Ion:106 Resp: 134794
Ion Ratio Lower Upper
106 100
91 287.5 127.6 382.7

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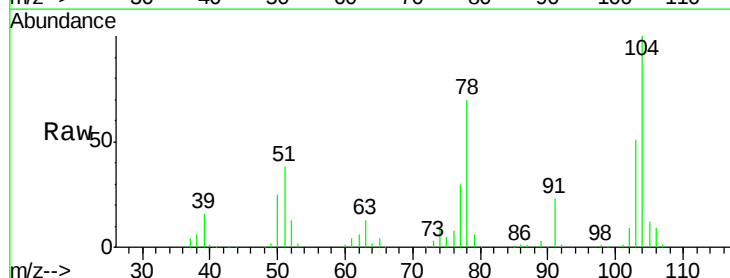


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

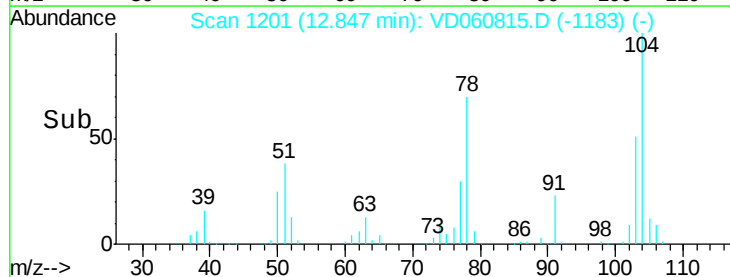
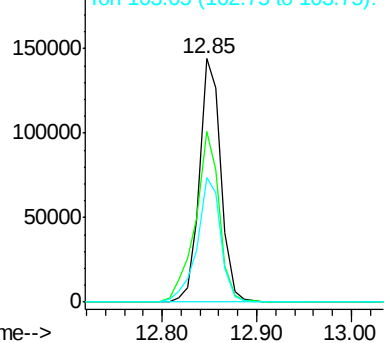


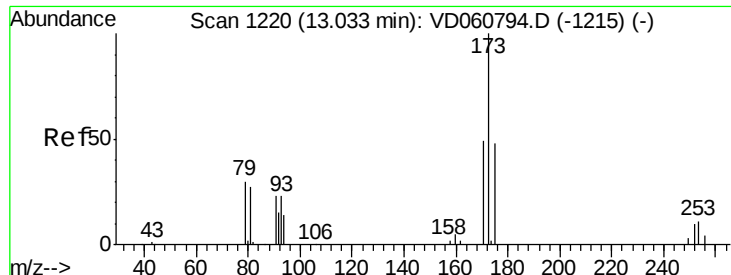
#70
Styrene
Concen: 19.281 ug/l
RT: 12.85 min Scan# 1201
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion:104 Resp: 226094
Ion Ratio Lower Upper
104 100
78 70.0 52.0 78.0
103 51.2 37.7 56.5



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





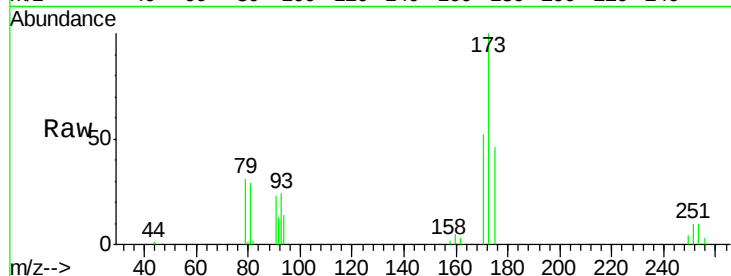
#71
Bromoform
Concen: 19.489 ug/l
RT: 13.01 min Scan# 1218
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBSD01

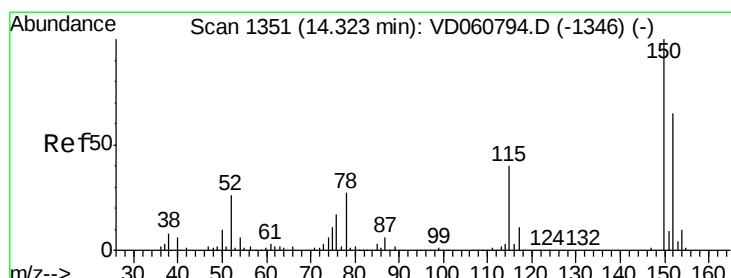
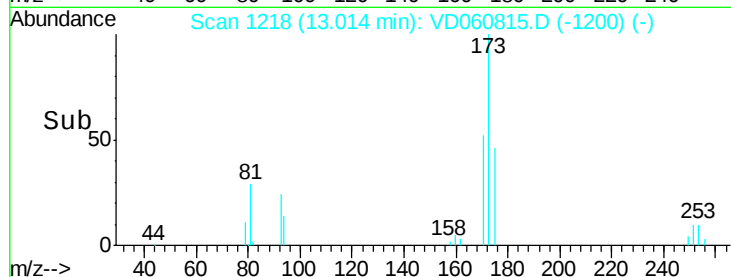
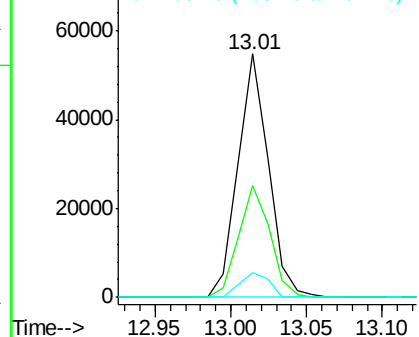
Tot Ion	Ratio	Lower	Upper
173	100		
175	45.9	24.1	72.4
254	9.9	9.1	13.7

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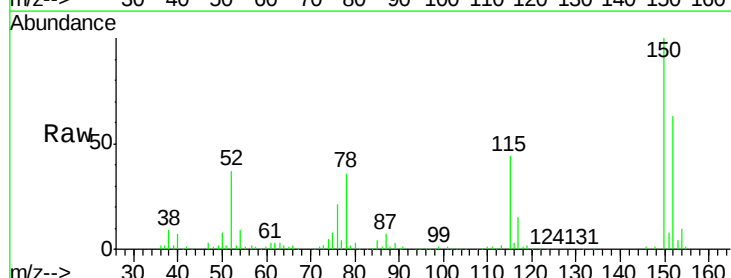


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

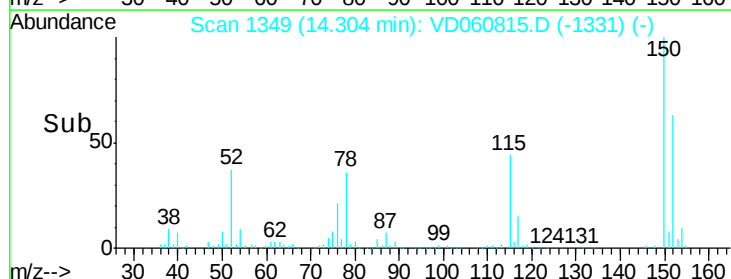
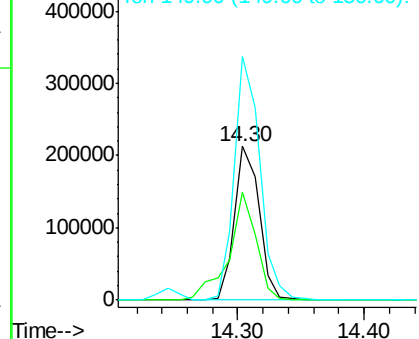


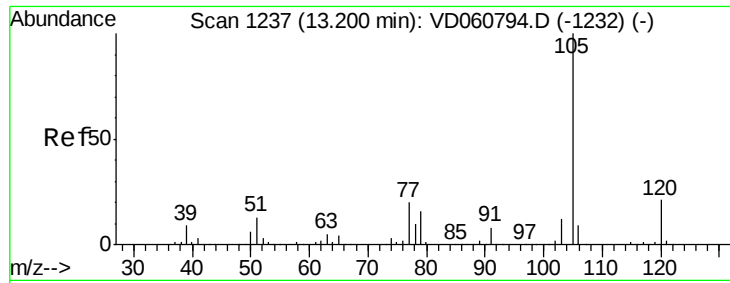
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.30 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.2	31.6	95.0
150	158.3	0.0	317.6



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





#73

Isopropylbenzene

Concen: 19.038 ug/l

RT: 13.18 min Scan# 1235

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

ClientSampleId :

VD0201SBS01

Tot Ion: 105 Resp: 434845

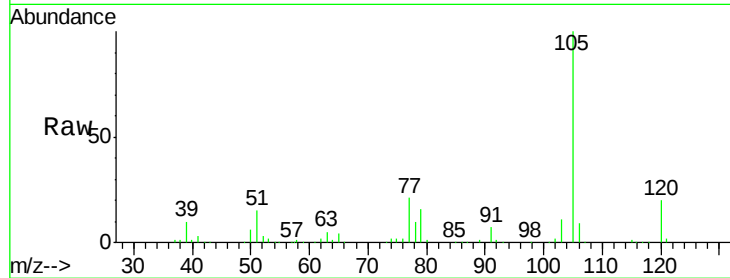
Ion Ratio Lower Upper

105 100

120 20.3 10.7 32.1

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

300000

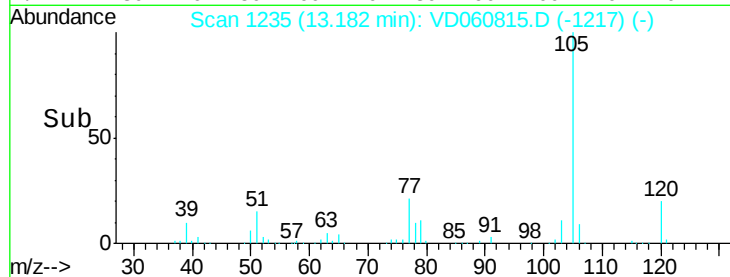
200000

100000

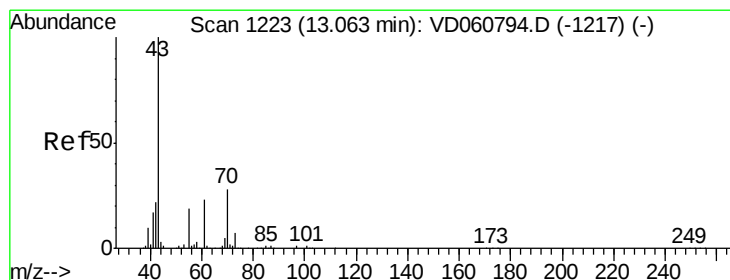
0

13.18

13.10 13.20 13.30



Time-->



#74

N-ethyl acetate

Concen: 17.806 ug/l

RT: 13.04 min Scan# 1221

Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion: 43 Resp: 125029

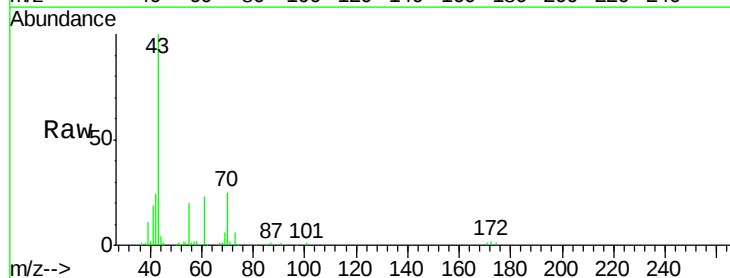
Ion Ratio Lower Upper

43 100

70 25.3 22.2 33.4

55 19.9 15.5 23.3

61 23.1 18.4 27.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

120000

100000

80000

60000

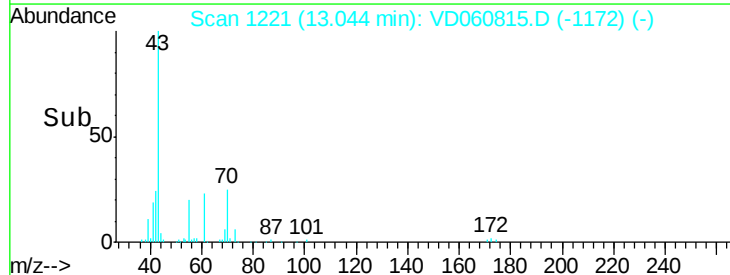
40000

20000

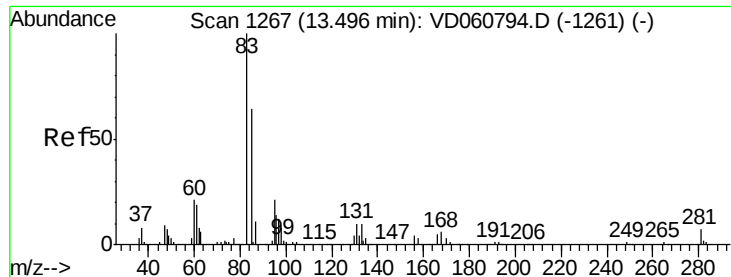
0

13.04

13.00 13.05 13.10



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 17.198 ug/l

RT: 13.49 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

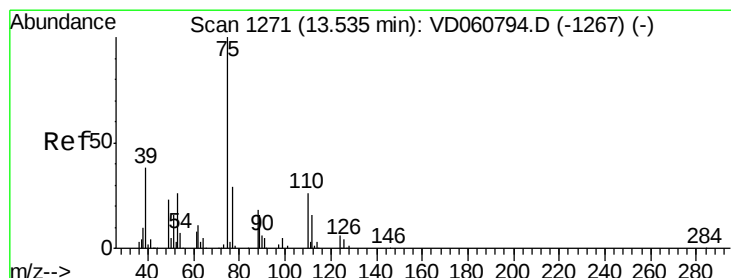
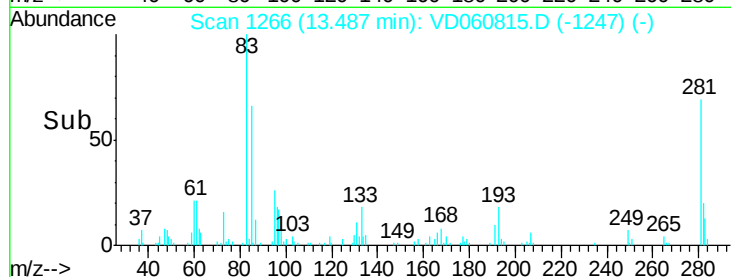
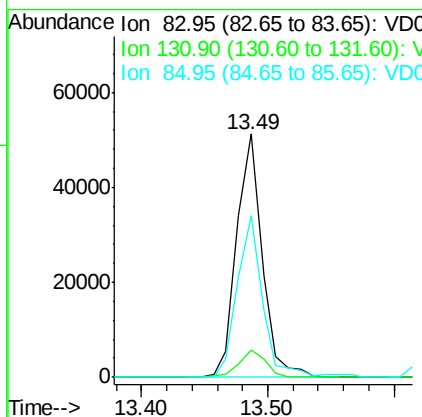
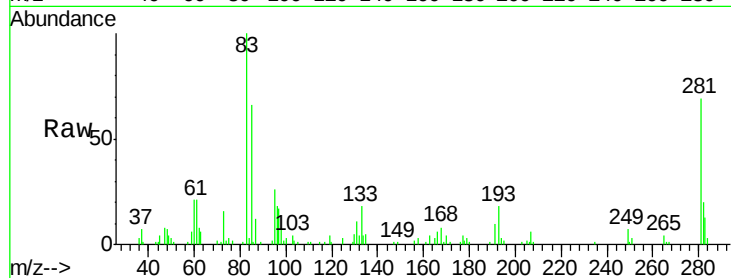
ClientSampleId :

VD0201SBS01

Tot Ion:	83	Resp:	71522
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.0	15.0
85	66.3	31.8	95.4

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#76

1,2,3-Trichloropropane

Concen: 17.830 ug/l

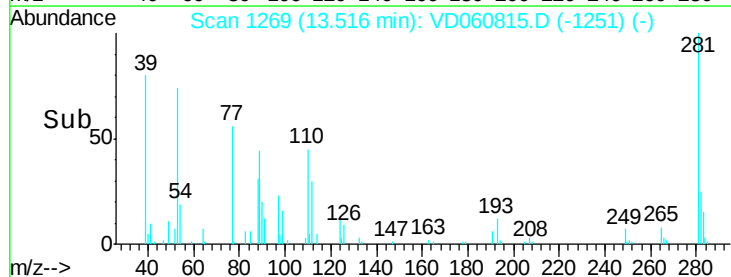
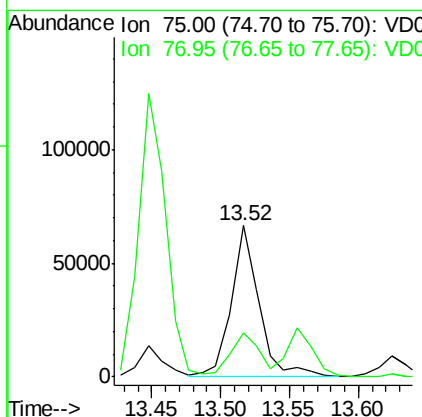
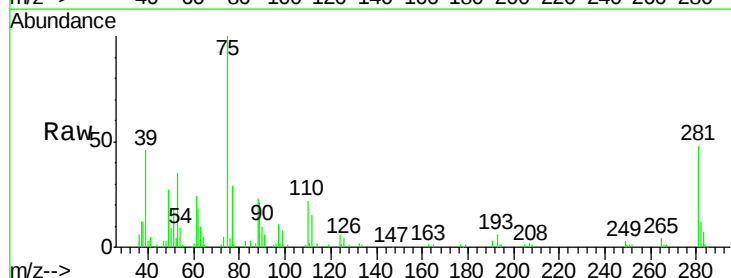
RT: 13.52 min Scan# 1269

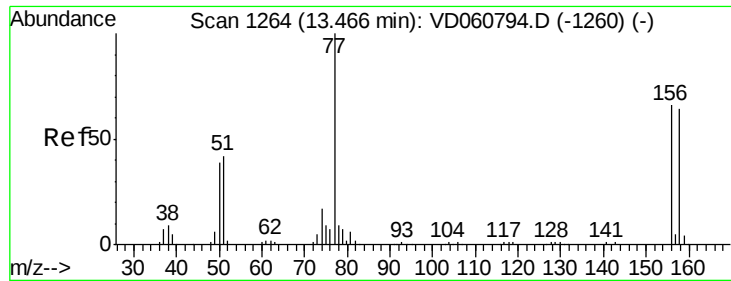
Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion:	75	Resp:	93663
Ion Ratio	Lower	Upper	
75	100		
77	29.3	15.9	47.7





#77

Bromobenzene

Concen: 18.882 ug/l

RT: 13.46 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Instrument :

MSVOA_D

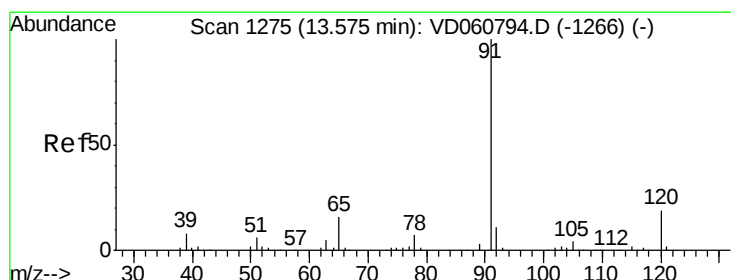
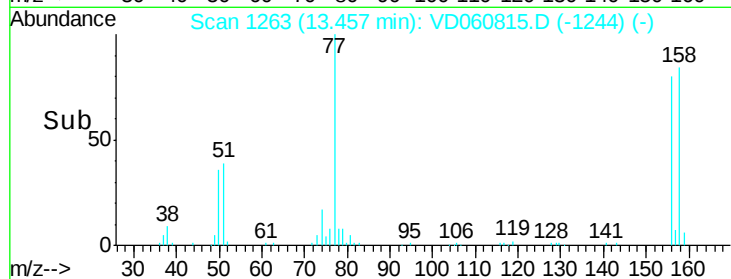
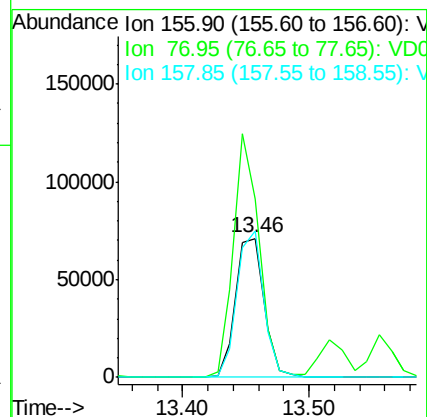
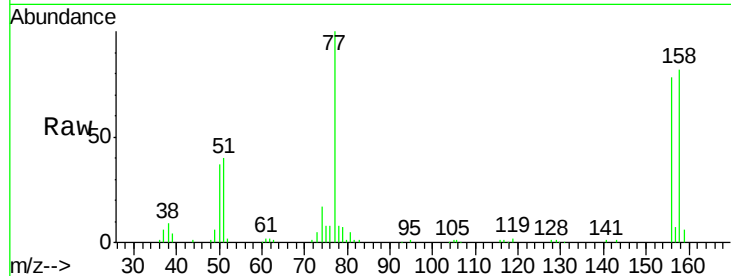
ClientSampleId :

VD0201SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	128.0	76.0	228.0	
158	105.4	48.4	145.0	

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#78

n-propylbenzene

Concen: 19.858 ug/l

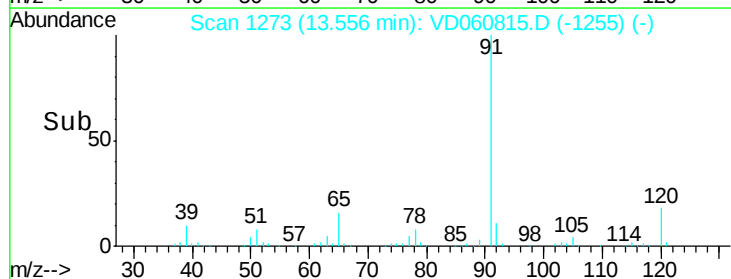
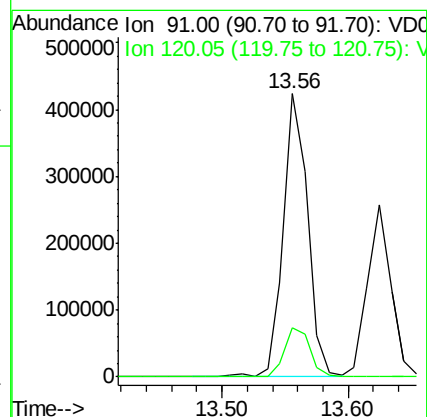
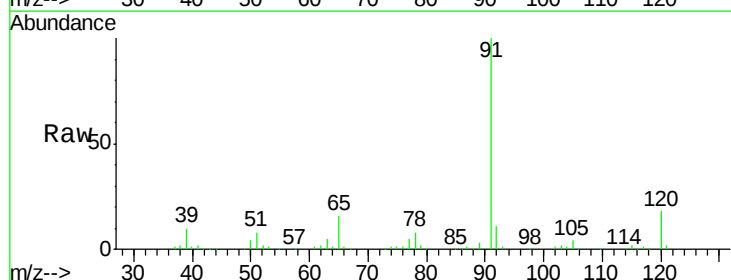
RT: 13.56 min Scan# 1273

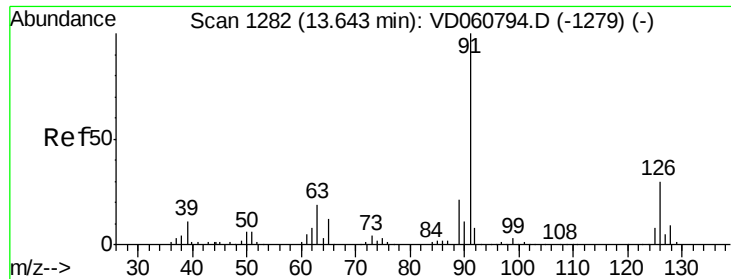
Delta R.T. -0.02 min

Lab File: VD060815.D

Acq: 1 Feb 2019 13:17

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	17.5	9.7	28.9	





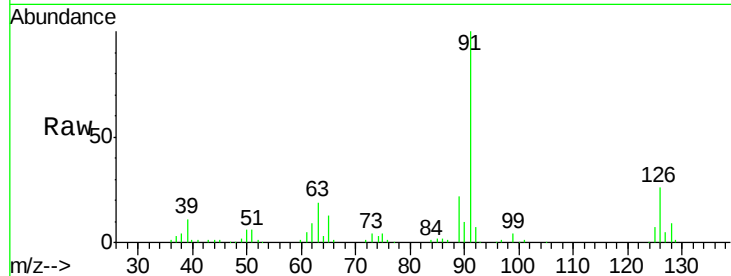
#79
 2-Chlorotoluene
 Concen: 19.013 ug/l
 RT: 13.62 min Scan# 1280
 Delta R.T. -0.02 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

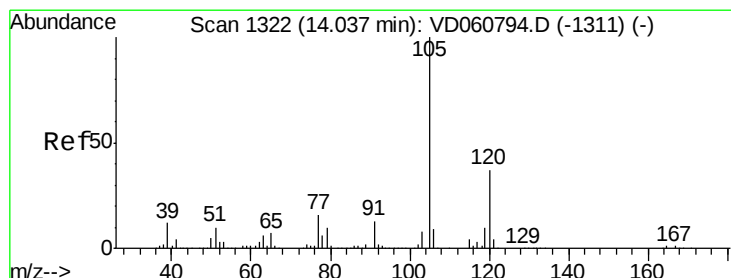
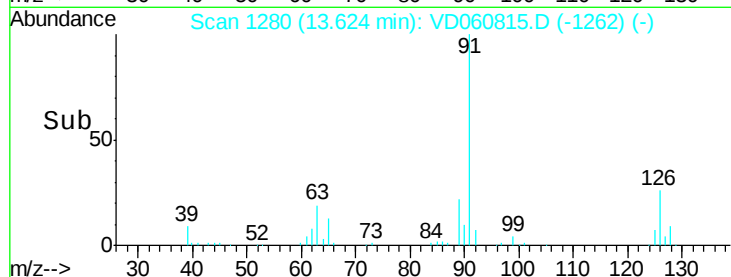
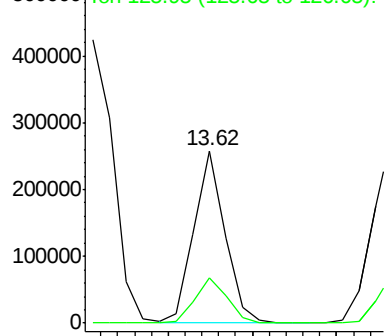
Tot Ion: 91 Resp: 332516
 Ion Ratio Lower Upper
 91 100
 126 26.0 14.7 44.1

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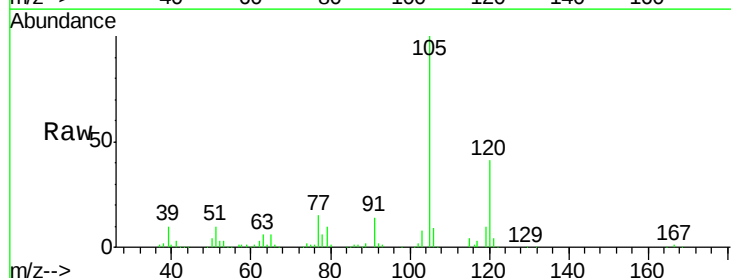


Abundance Ion 91.00 (90.70 to 91.70): VD060794.D (-1279) (-)
 Ion 125.95 (125.65 to 126.65): VD060794.D (-1279) (-)

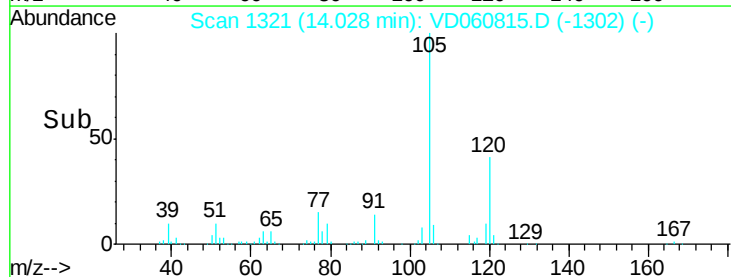
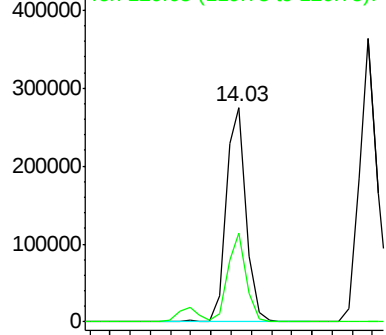


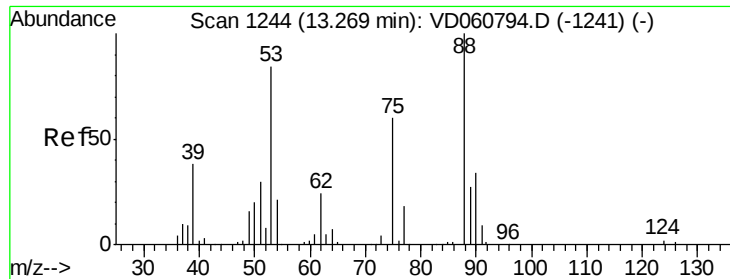
#80
 1,3,5-Trimethylbenzene
 Concen: 19.428 ug/l
 RT: 14.03 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion: 105 Resp: 382011
 Ion Ratio Lower Upper
 105 100
 120 41.1 18.4 55.2



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





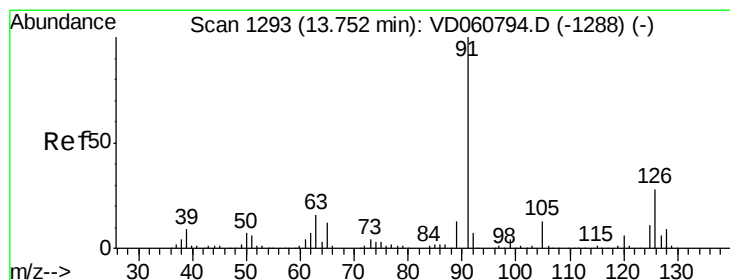
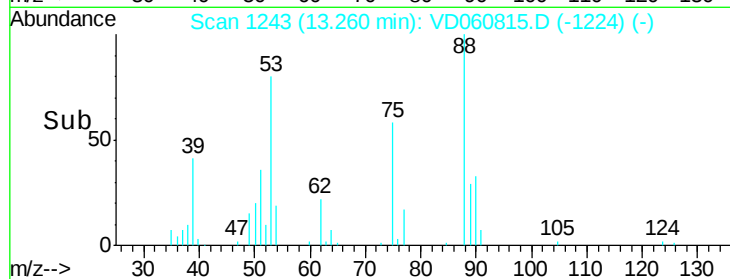
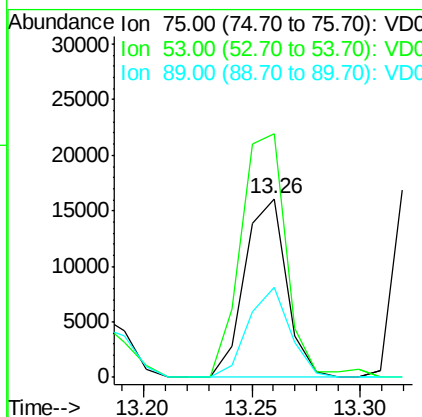
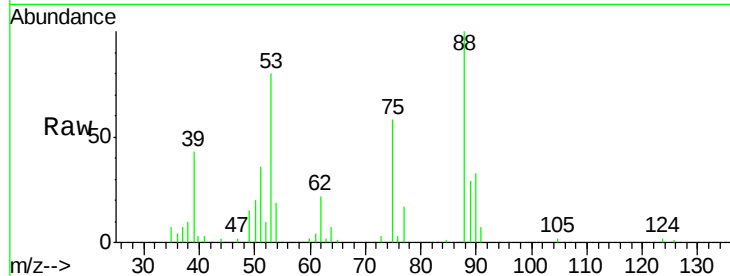
#81
trans-1,4-Dichloro-2-butene
Concen: 15.943 ug/l
RT: 13.26 min Scan# 1243
Delta R.T. -0.01 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	136.1	111.6	167.4
89	50.1	35.9	53.9

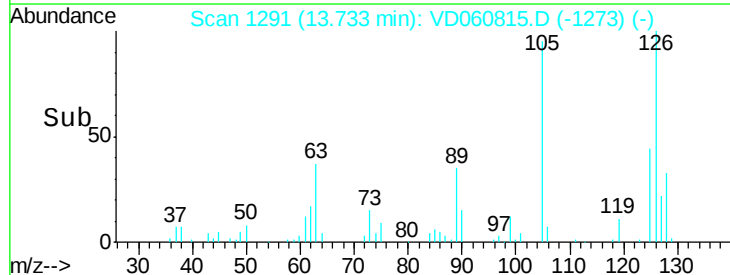
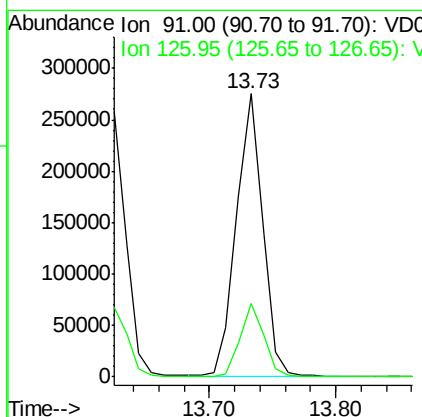
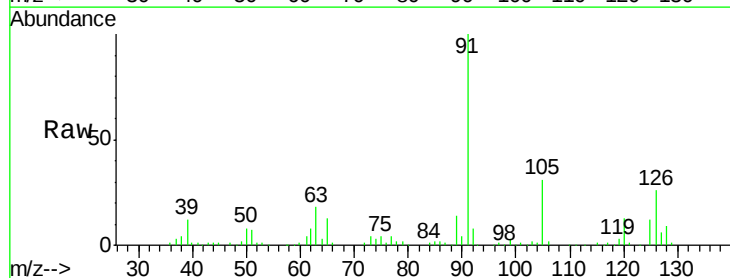
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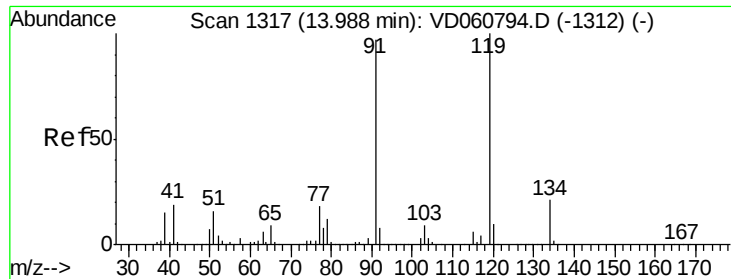
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#82
4-Chlorotoluene
Concen: 20.419 ug/l
RT: 13.73 min Scan# 1291
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
91	100		
126	26.2	13.9	41.7





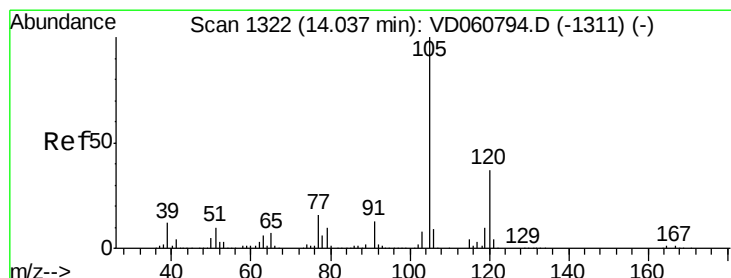
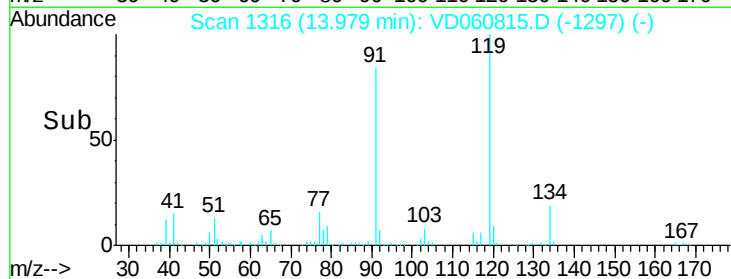
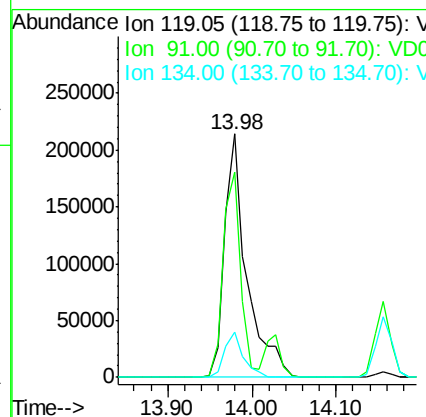
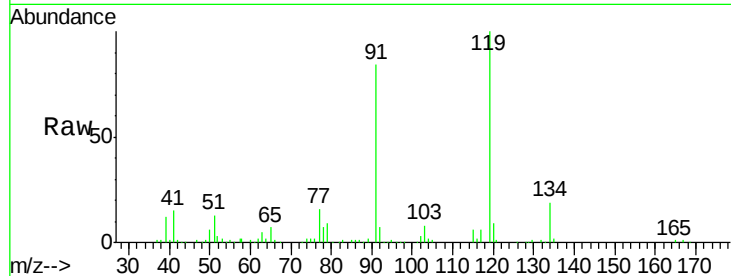
#83
tert-Butylbenzene
Concen: 19.034 ug/l
RT: 13.98 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	391568		
91	84.1	48.5	145.5	
134	18.7	10.3	30.8	

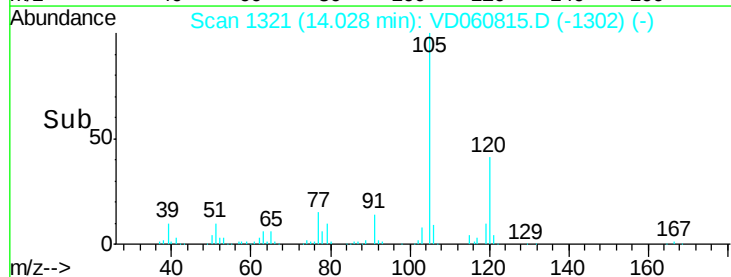
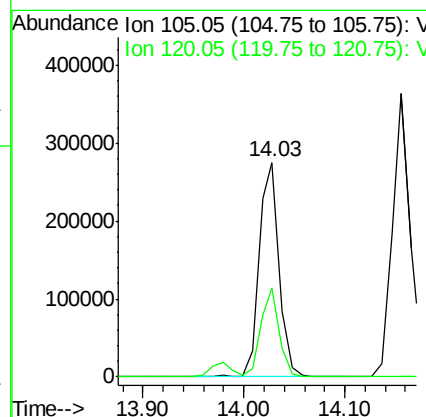
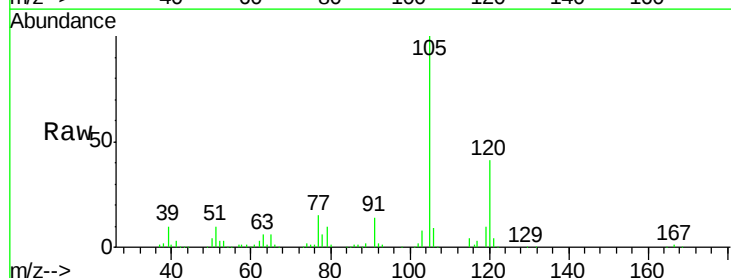
Manual Integrations
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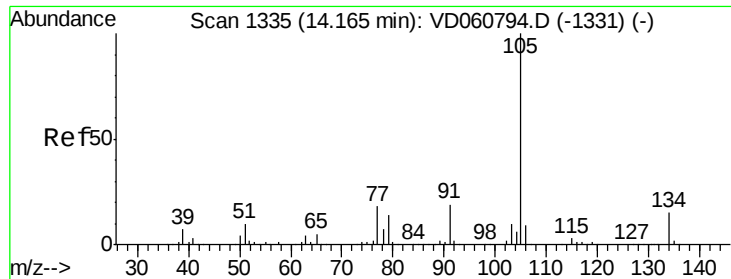
MMDadoda
2/4/2019 4:42:53 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.428 ug/l
RT: 14.03 min Scan# 1321
Delta R.T. -0.01 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	382011		
120	41.1	18.4	55.2	





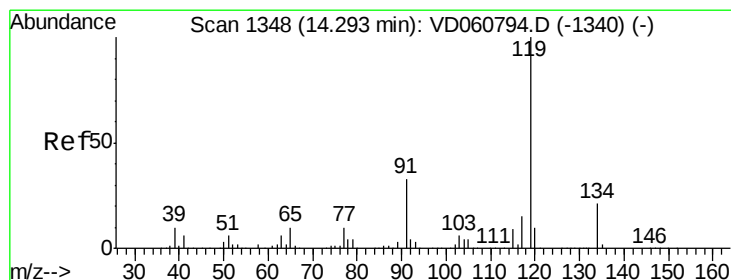
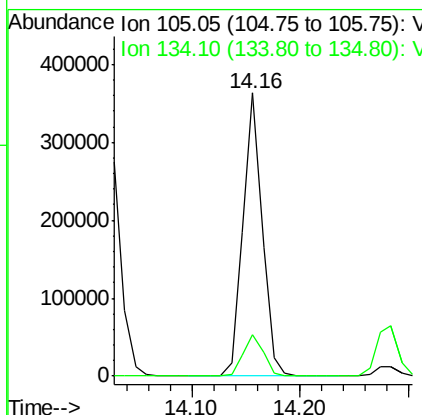
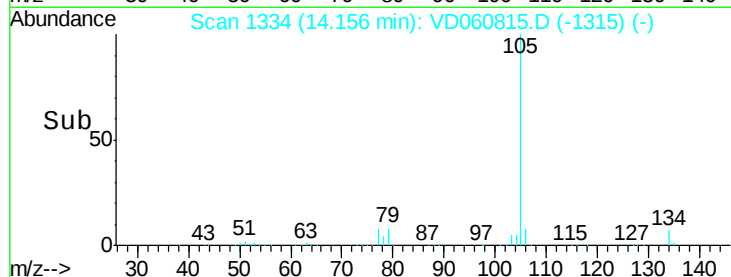
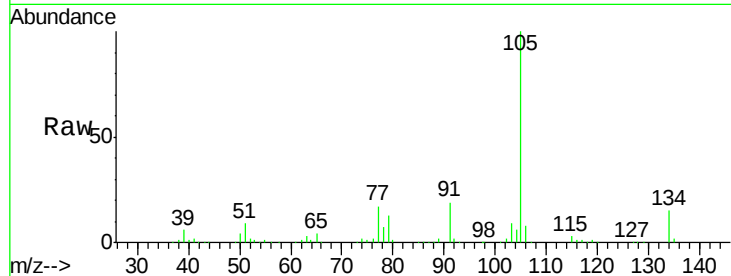
#85
 sec-Butylbenzene
 Concen: 19.261 ug/l
 RT: 14.16 min Scan# 1334
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	14.5	7.4	22.2

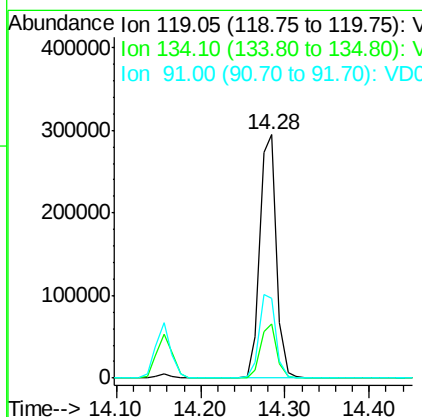
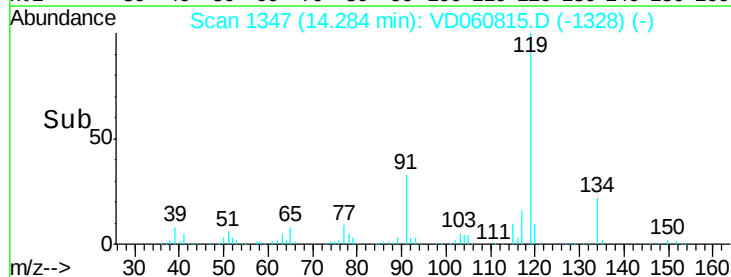
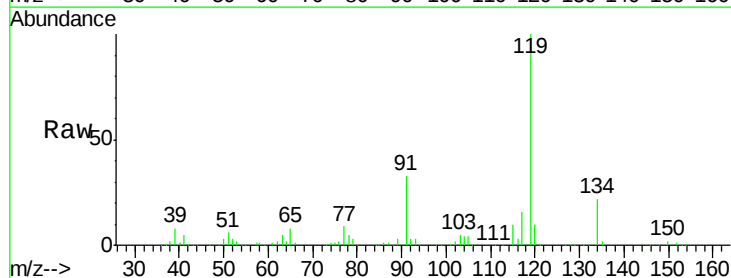
Manual Integrations
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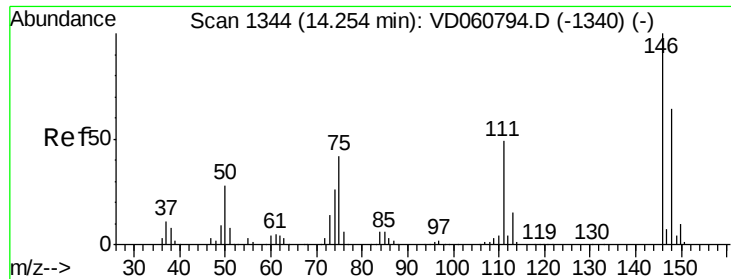
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#86
 p-Isopropyltoluene
 Concen: 21.780 ug/l
 RT: 14.28 min Scan# 1347
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
119	100		
134	22.2	10.8	32.3
91	32.7	16.7	50.0





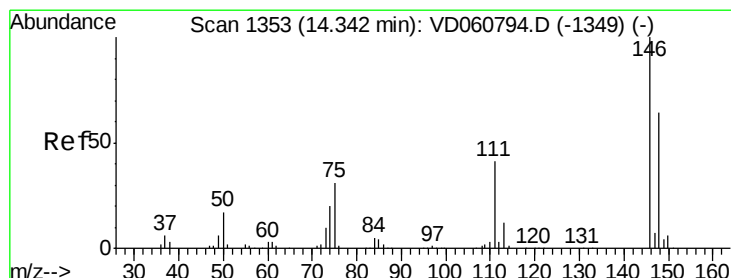
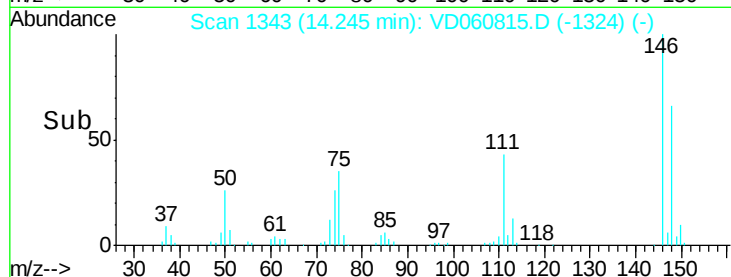
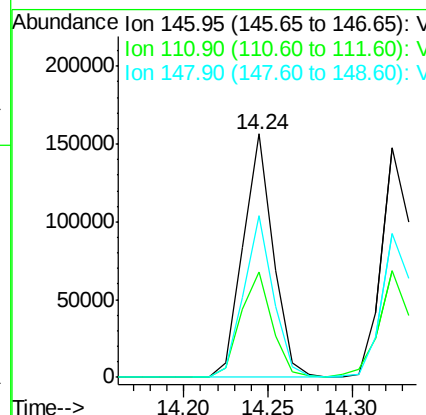
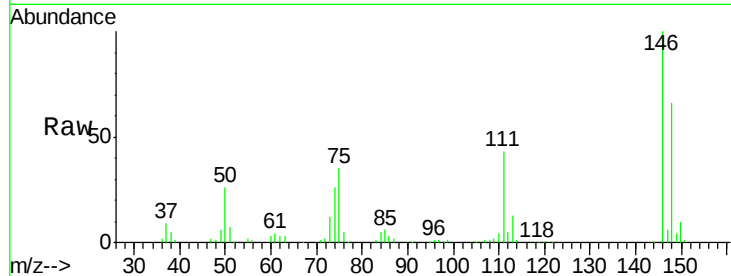
#87
 1,3-Dichlorobenzene
 Concen: 18.529 ug/l
 RT: 14.24 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	24.3	73.0
148	66.4	32.1	96.5

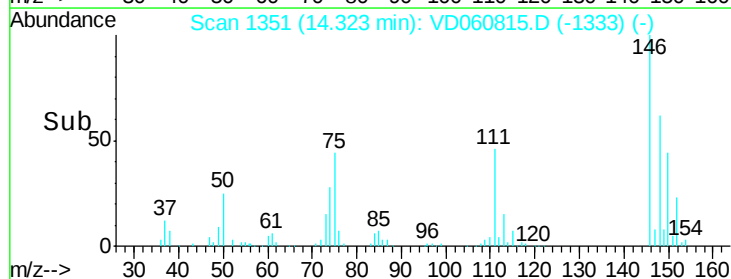
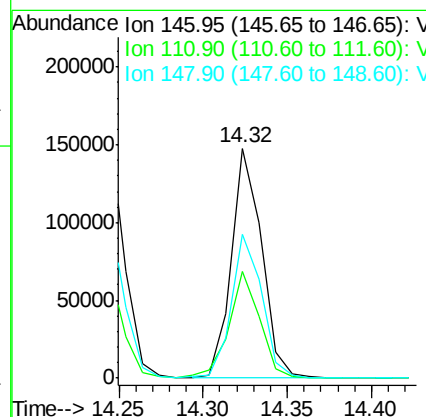
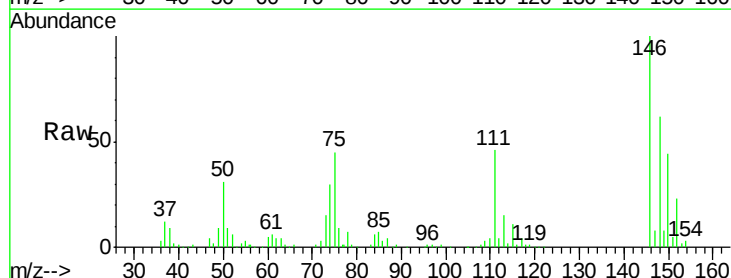
Manual Integrations
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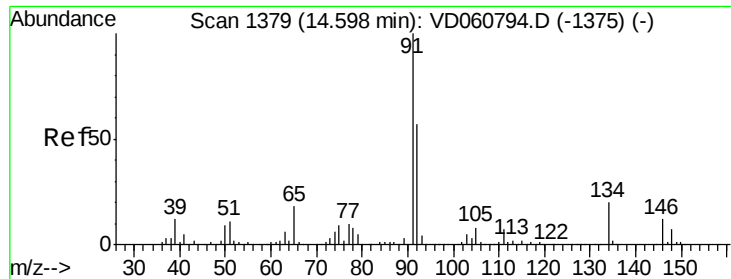
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 2/4/2019 4:42:53 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.068 ug/l
 RT: 14.32 min Scan# 1351
 Delta R.T. -0.02 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.3	20.6	61.8
148	62.4	31.9	95.7





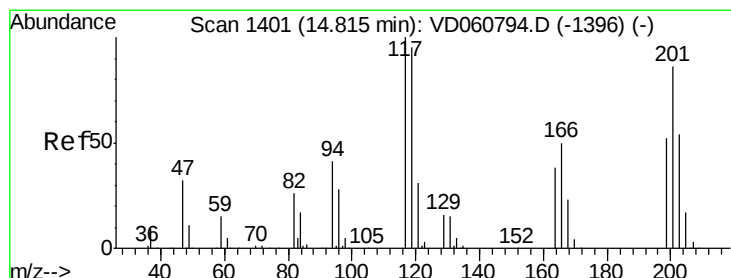
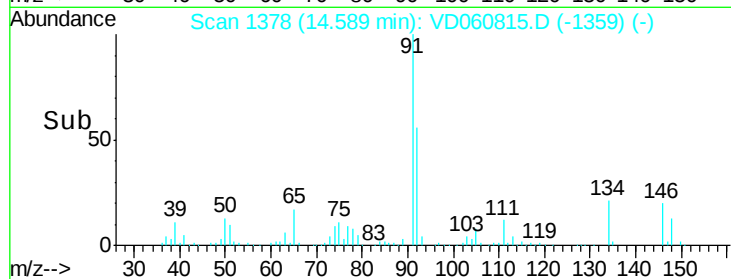
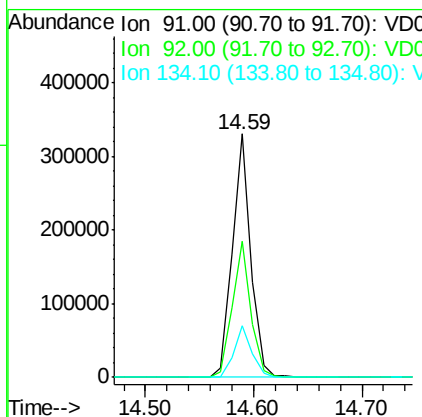
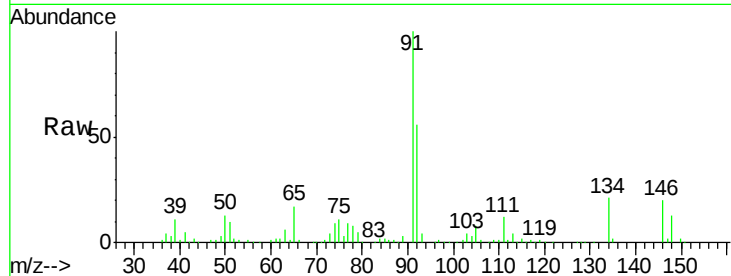
#89
n-Butylbenzene
Concen: 19.737 ug/l
RT: 14.59 min Scan# 1378
Delta R.T. -0.01 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.7	28.5	85.5
134	21.3	10.0	29.8

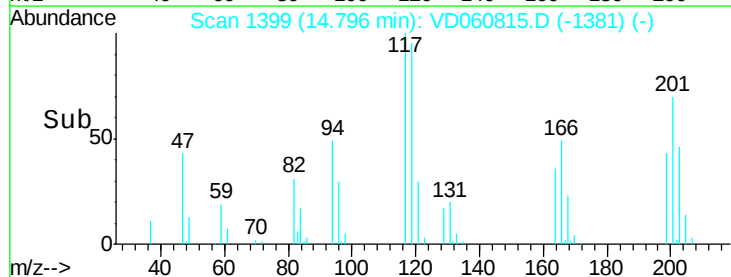
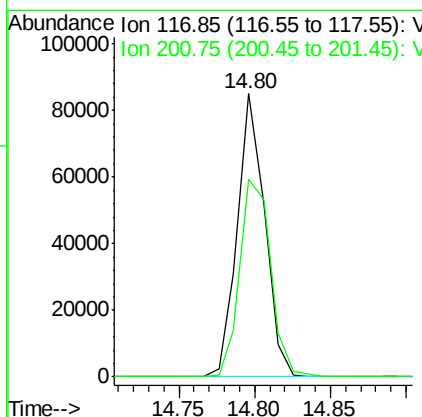
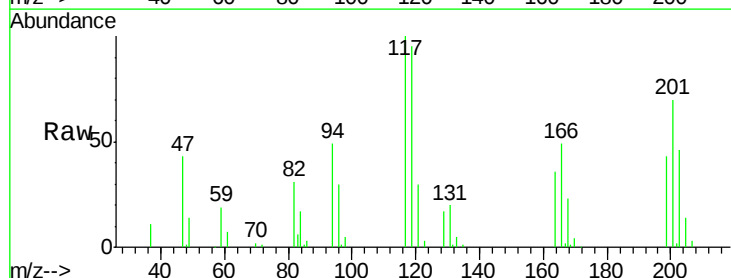
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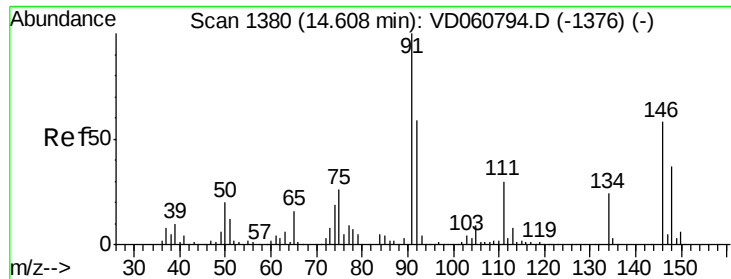
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#90
Hexachloroethane
Concen: 18.900 ug/l
RT: 14.80 min Scan# 1399
Delta R.T. -0.02 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.6	43.0	128.8





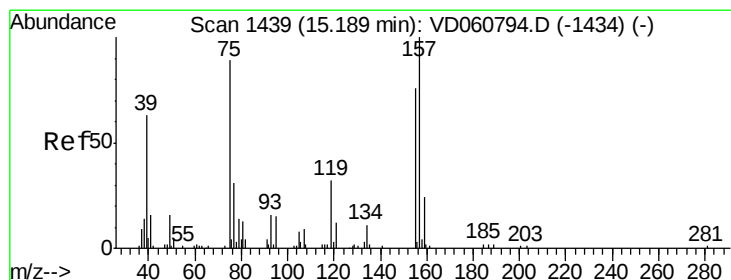
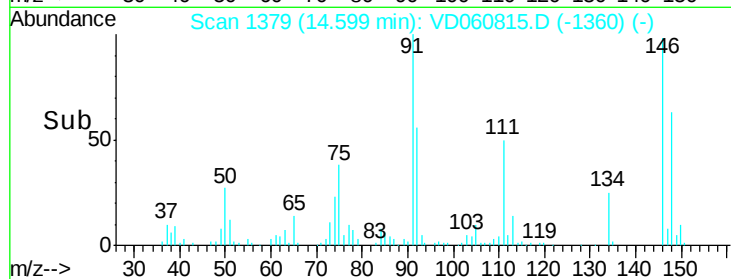
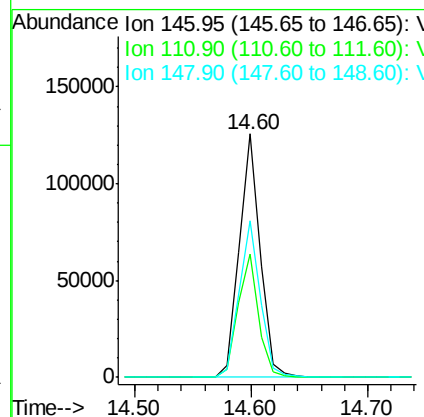
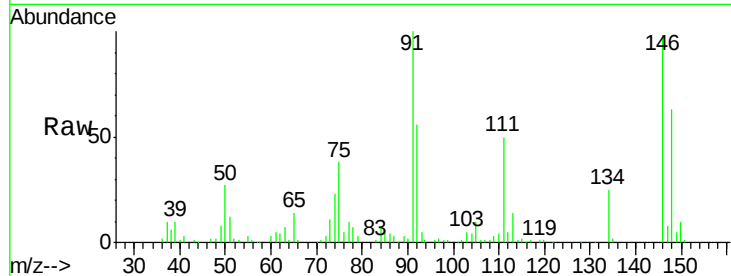
#91
 1,2-Dichlorobenzene
 Concen: 17.867 ug/l
 RT: 14.60 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	25.6	76.8
148	64.1	31.4	94.3

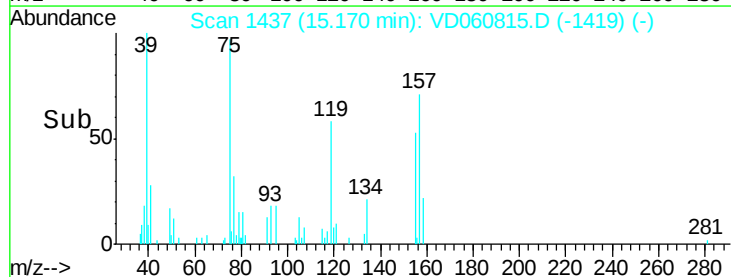
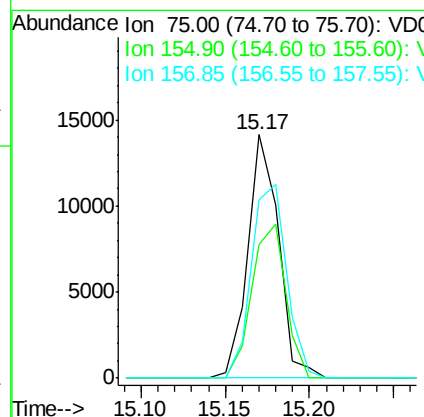
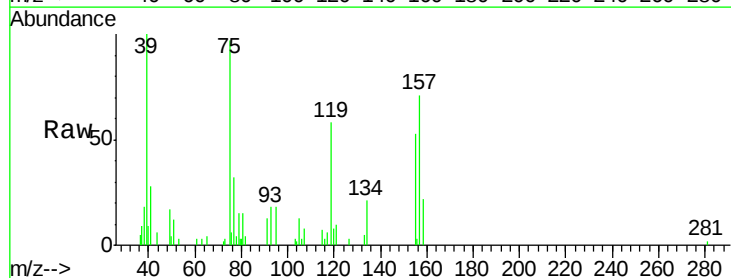
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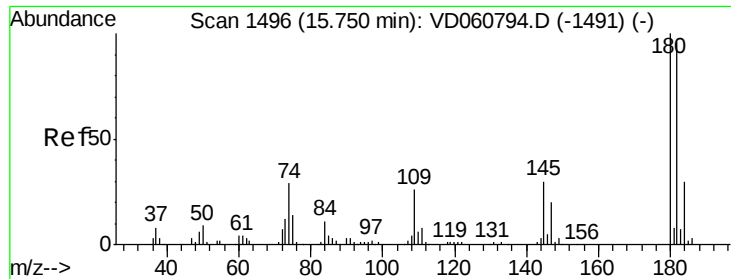
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.099 ug/l
 RT: 15.17 min Scan# 1437
 Delta R.T. -0.02 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	54.7	43.0	129.0
157	73.1	56.3	168.9





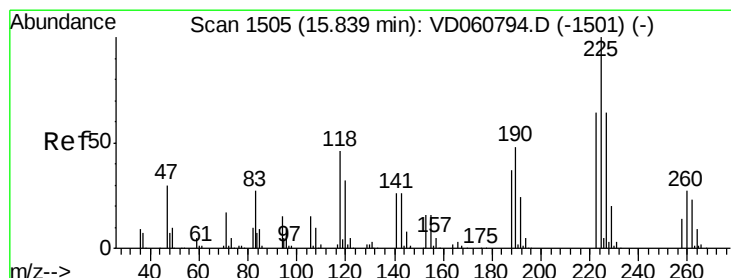
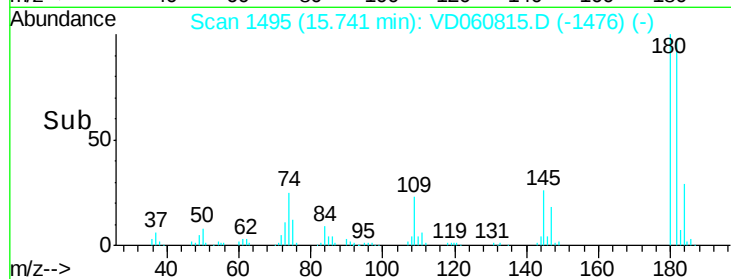
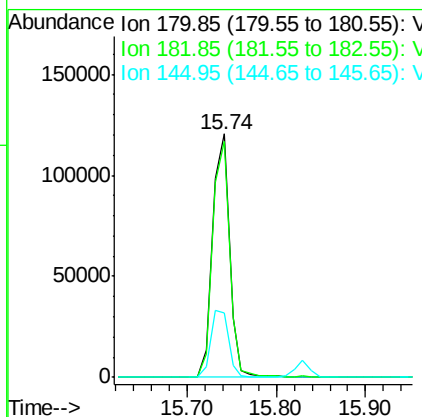
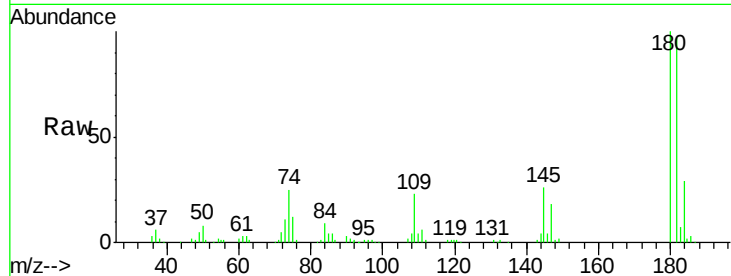
#93
 1,2,4-Trichlorobenzene
 Concen: 21.139 ug/l
 RT: 15.74 min Scan# 1495
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0201SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	159549		
182	97.1	47.9	143.7	
145	26.4	15.0	45.1	

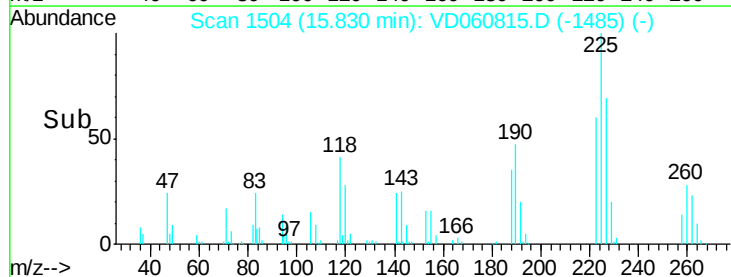
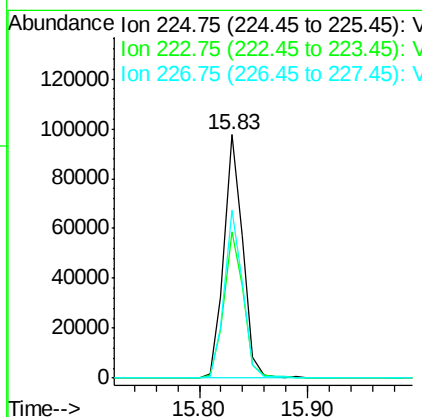
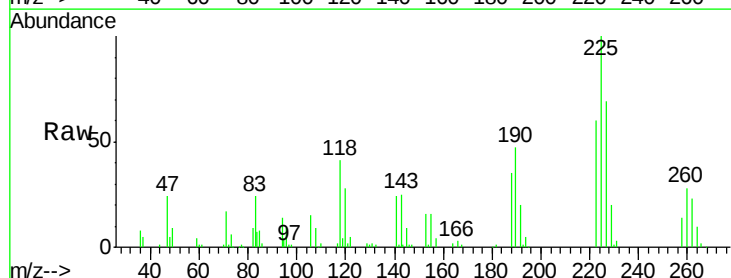
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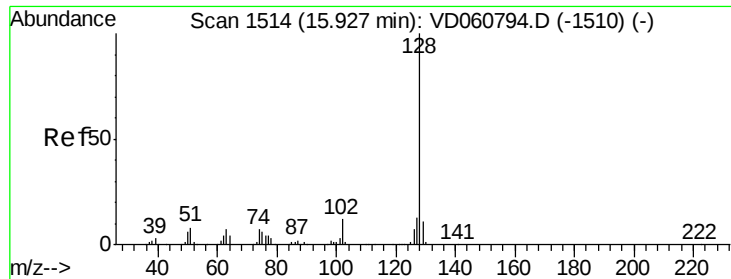
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#94
 Hexachlorobutadiene
 Concen: 20.903 ug/l
 RT: 15.83 min Scan# 1504
 Delta R.T. -0.01 min
 Lab File: VD060815.D
 Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	118372		
223	60.3	31.8	95.4	
227	69.3	31.9	95.5	





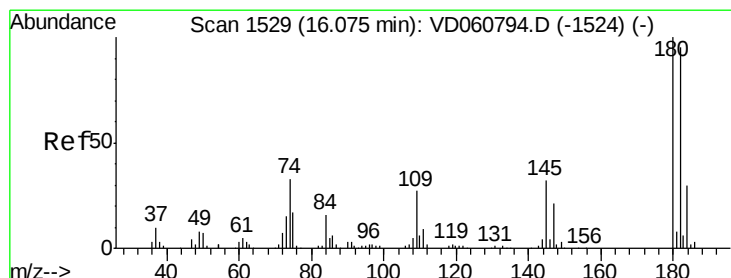
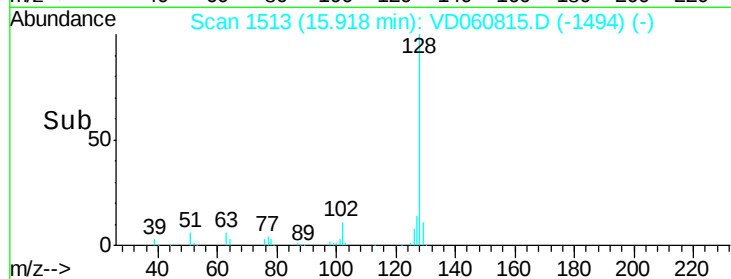
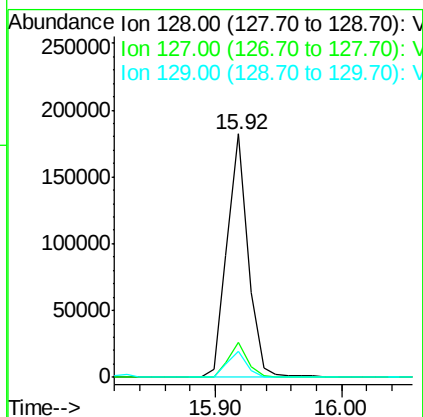
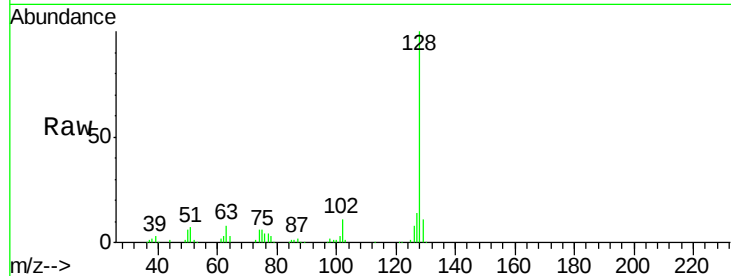
#95
Naphthalene
Concen: 18.162 ug/l
RT: 15.92 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Instrument :
MSVOA_D
ClientSampleId :
VD0201SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	210618		
127	14.3		10.4	15.6
129	10.8		8.7	13.1

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#96
1,2,3-Trichlorobenzene
Concen: 19.031 ug/l
RT: 16.07 min Scan# 1528
Delta R.T. -0.01 min
Lab File: VD060815.D
Acq: 1 Feb 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	124905		
182	98.2		47.4	142.3
145	29.7		15.8	47.4

