

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021819\
 Data File : VW008724.D
 Acq On : 18 Feb 2019 13:18
 Operator : SY/VA
 Sample : VW0218SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0218SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/19/2019 11:12:43 AM

Quant Time: Feb 19 03:43:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	413093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	607200	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	548007	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	288394	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	196476	45.75	ug/l	0.00
Spiked Amount						
			Recovery	=	91.50%	
35) Dibromofluoromethane	7.88	113	183096	48.56	ug/l	0.00
Spiked Amount						
			Recovery	=	97.12%	
50) Toluene-d8	10.32	98	689256	47.42	ug/l	0.00
Spiked Amount						
			Recovery	=	94.84%	
62) 4-Bromofluorobenzene	12.62	95	254402	46.47	ug/l	0.00
Spiked Amount						
			Recovery	=	92.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	50920m	19.245	ug/l	
3) Chloromethane	2.21	50	67553	17.711	ug/l	97
4) Vinyl Chloride	2.36	62	87655	17.495	ug/l	97
5) Bromomethane	2.77	94	72744	18.349	ug/l	95
6) Chloroethane	2.92	64	68558	18.390	ug/l	94
7) Trichlorofluoromethane	3.25	101	69430	17.792	ug/l	93
8) Diethyl Ether	3.67	74	39717	17.056	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.06	101	74206	17.995	ug/l	93
10) Methyl Iodide	4.26	142	117498	18.255	ug/l	98
11) Tert butyl alcohol	5.17	59	28322	82.424	ug/l #	72
12) 1,1-Dichloroethene	4.03	96	74870	18.565	ug/l	96
13) Acrolein	3.88	56	28541	80.619	ug/l	90
14) Allyl chloride	4.65	41	121899	18.193	ug/l	98
15) Acrylonitrile	5.36	53	89278	91.086	ug/l	98
16) Acetone	4.12	43	87734	89.774	ug/l	96
17) Carbon Disulfide	4.37	76	221368	18.189	ug/l	96
18) Methyl Acetate	4.67	43	37698	16.881	ug/l	93
19) Methyl tert-butyl Ether	5.42	73	128702	18.179	ug/l	100
20) Methylene Chloride	4.91	84	84864	14.585	ug/l	91
21) trans-1,2-Dichloroethene	5.42	96	83289	18.858	ug/l	98
22) Diisopropyl ether	6.31	45	244651	18.142	ug/l	97
23) Vinyl Acetate	6.25	43	788505	90.090	ug/l	99
24) 1,1-Dichloroethane	6.21	63	146214	18.789	ug/l	99
25) 2-Butanone	7.17	43	125586	91.006	ug/l	93
26) 2,2-Dichloropropane	7.17	77	99867	20.543	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	90219	18.891	ug/l	99
28) Bromochloromethane	7.51	49	65894	20.059	ug/l	99
29) Tetrahydrofuran	7.53	42	77685	85.409	ug/l	99
30) Chloroform	7.67	83	148818	19.086	ug/l	98
31) Cyclohexane	7.95	56	145385	18.510	ug/l	95
32) 1,1,1-Trichloroethane	7.87	97	127896	19.422	ug/l	99
36) 1,1-Dichloropropene	8.08	75	123124	20.183	ug/l	99
37) Ethyl Acetate	7.25	43	55097	18.723	ug/l	98
38) Carbon Tetrachloride	8.06	117	124208	20.476	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	150689	19.529	ug/l	98
40) Benzene	8.32	78	324198	19.459	ug/l	99
41) Methacrylonitrile	7.48	41	30477	18.407	ug/l #	85
42) 1,2-Dichloroethane	8.40	62	101102	19.564	ug/l	100
43) Isopropyl Acetate	8.42	43	106790	18.199	ug/l	97
44) Trichloroethene	9.09	130	92762	20.081	ug/l	92
45) 1,2-Dichloropropane	9.37	63	79924	19.384	ug/l	97
46) Dibromomethane	9.46	93	44328	19.516	ug/l	99
47) Bromodichloromethane	9.64	83	106071	19.432	ug/l	98
48) Methyl methacrylate	9.43	41	49726	18.286	ug/l	96
49) 1,4-Dioxane	9.45	88	12603	347.612	ug/l	95
51) 4-Methyl-2-Pentanone	10.21	43	273900	90.868	ug/l	100
52) Toluene	10.38	92	209444	19.486	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	110777	19.317	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	126421	19.447	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	60230	19.326	ug/l	98
56) Ethyl methacrylate	10.65	69	77340	18.689	ug/l	97
57) 1,3-Dichloropropane	10.93	76	106244	19.214	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	205329	103.430	ug/l	100
59) 2-Hexanone	10.97	43	188089	88.826	ug/l	98
60) Dibromochloromethane	11.13	129	71997	19.307	ug/l	97
61) 1,2-Dibromoethane	11.23	107	58829	19.172	ug/l	97
64) Tetrachloroethene	10.86	164	77661	19.057	ug/l	98
65) Chlorobenzene	11.66	112	229208	19.405	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	81019	19.363	ug/l	99
67) Ethyl Benzene	11.73	91	405627	19.279	ug/l	99
68) m/p-Xylenes	11.84	106	312705	38.198	ug/l	98
69) o-Xylene	12.16	106	147042	19.002	ug/l	99
70) Styrene	12.18	104	238098	18.838	ug/l	99
71) Bromoform	12.35	173	43009	19.077	ug/l #	99
73) Isopropylbenzene	12.46	105	412670	19.210	ug/l	100
74) N-amyl acetate	12.27	43	99291	17.092	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	69418	18.573	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	48839m	17.150	ug/l	
77) Bromobenzene	12.75	156	95562	19.352	ug/l	98
78) n-propylbenzene	12.80	91	492535	19.297	ug/l	99
79) 2-Chlorotoluene	12.89	91	277206	19.216	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	339687	19.037	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	22003	18.697	ug/l	98
82) 4-Chlorotoluene	12.99	91	290531	19.004	ug/l	99
83) tert-Butylbenzene	13.21	119	299900	19.356	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	349808	19.074	ug/l	99
85) sec-Butylbenzene	13.38	105	430253	19.072	ug/l	99
86) p-Isopropyltoluene	13.50	119	381118	18.884	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	195393	19.519	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	193385	19.602	ug/l	98
89) n-Butylbenzene	13.83	91	371914	19.392	ug/l	100
90) Hexachloroethane	14.10	117	71185	20.189	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	170207	19.191	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.49	75	11811	18.185	ug/l	95

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ClientSampleId :
VW0218SBSD01

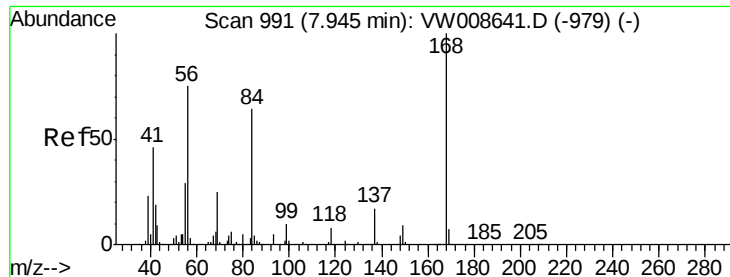
Manual Integrations
APPROVED

MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	127677	20.223	ug/l	98
94) Hexachlorobutadiene	15.24	225	77481	21.083	ug/l	98
95) Naphthalene	15.37	128	214477	18.957	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	107733	19.886	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion:168 Resp: 413093

Ion Ratio Lower Upper

168 100

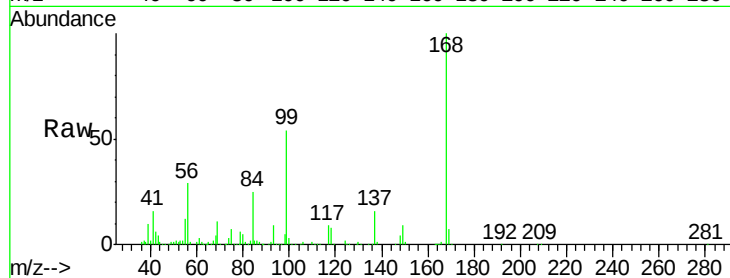
99 54.1 42.8 64.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

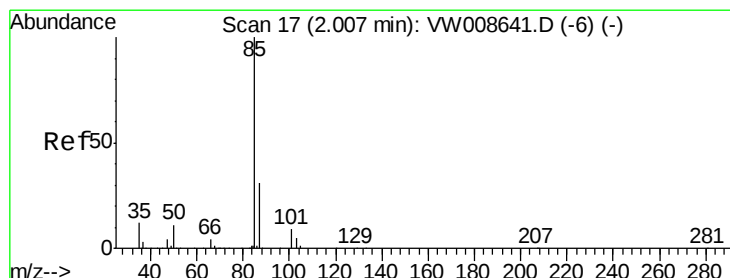
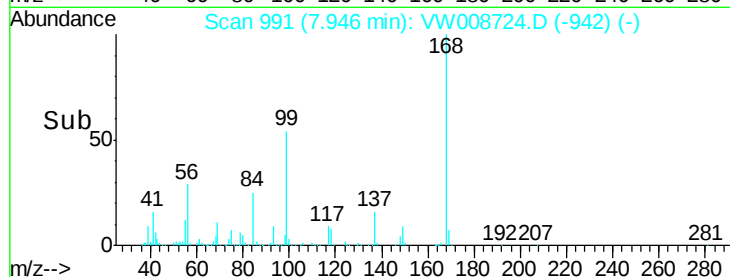
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 19.245 ug/l m

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008724.D

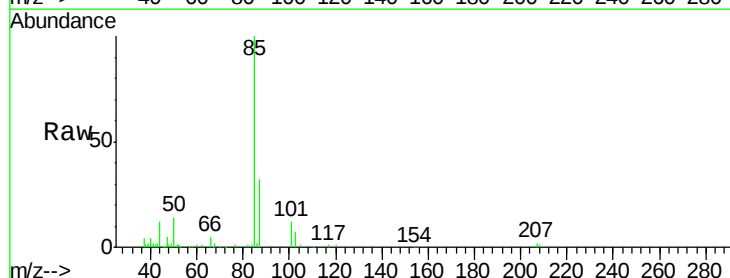
Acq: 18 Feb 2019 13:18

Tgt Ion: 85 Resp: 50920

Ion Ratio Lower Upper

85 100

87 32.1 15.4 46.4



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

20000

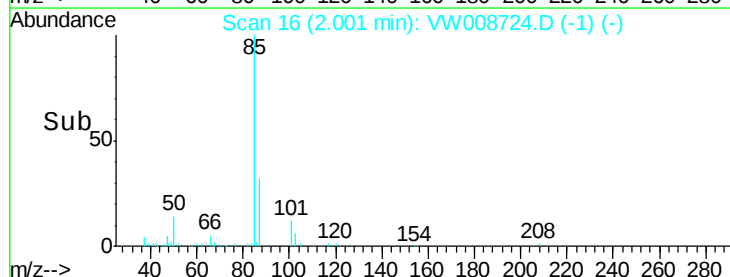
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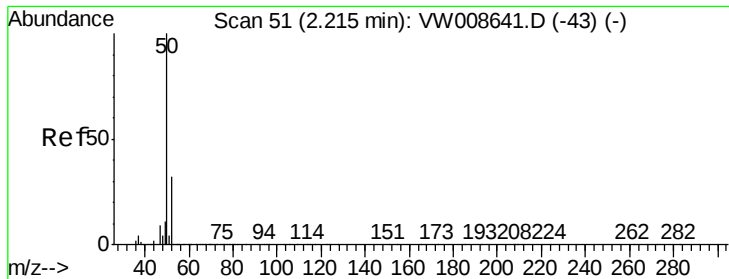
10000

5000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 17.711 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 50 Resp: 67553

Ion Ratio Lower Upper

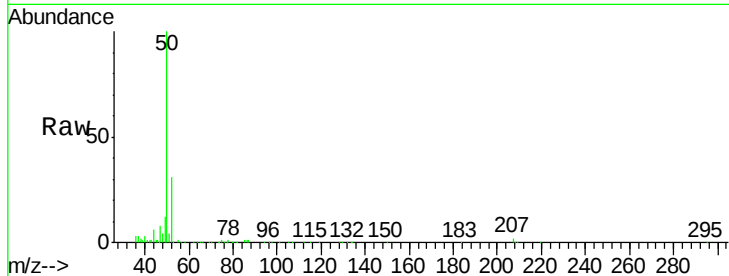
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52 31.1 26.0 39.0

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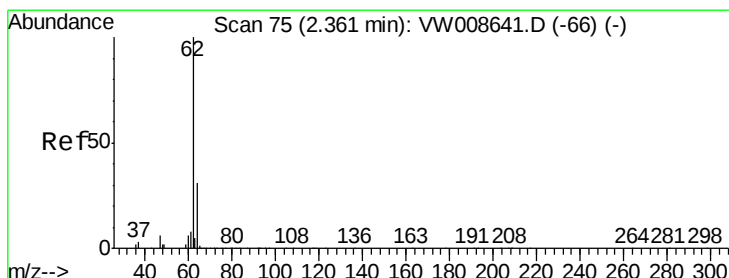
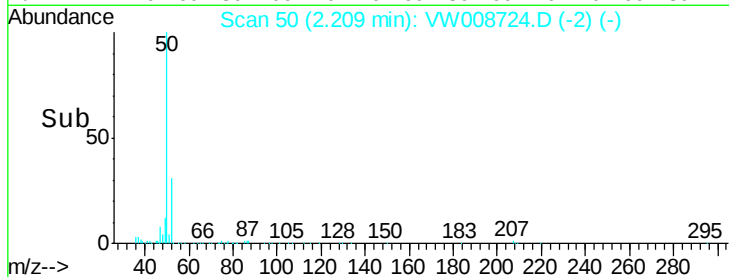
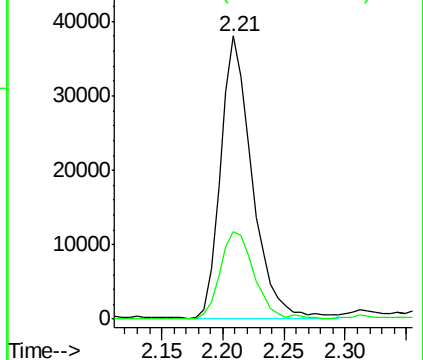
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Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 17.495 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW008724.D

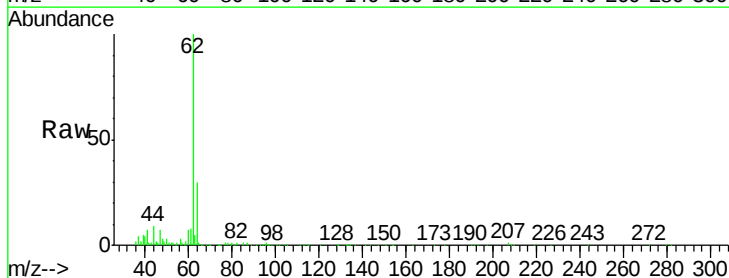
Acq: 18 Feb 2019 13:18

Tgt Ion: 62 Resp: 87655

Ion Ratio Lower Upper

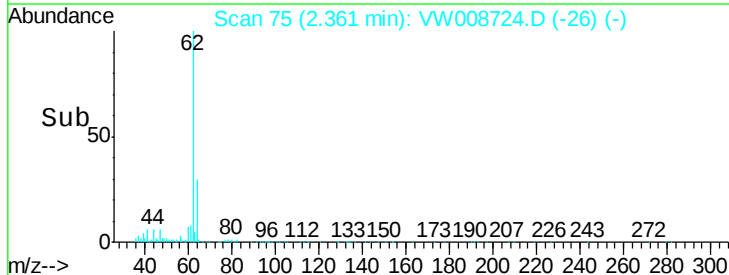
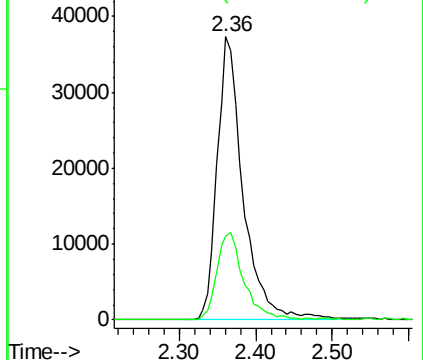
62 100

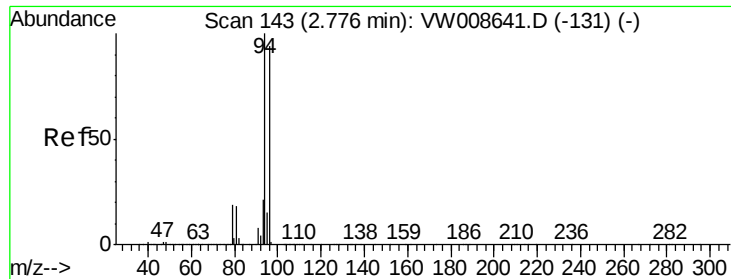
64 29.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 18.349 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBSD01

Tot Ion: 94 Resp: 72744

Ion Ratio Lower Upper

94 100

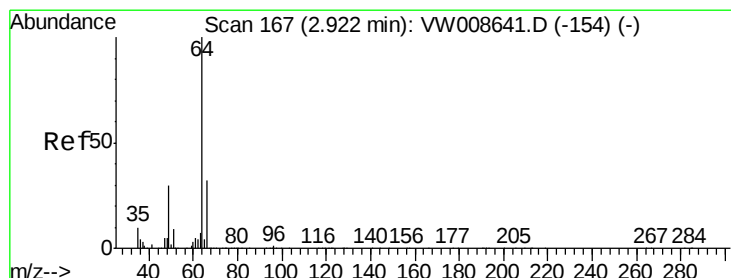
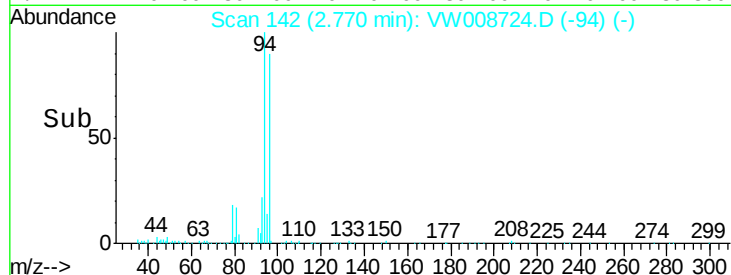
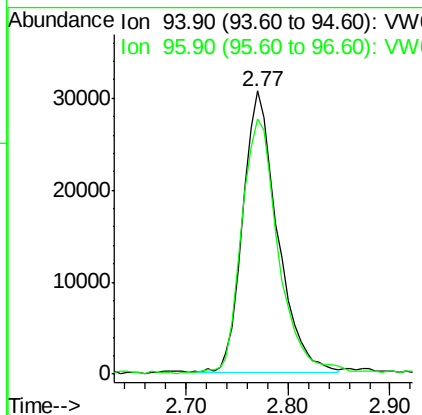
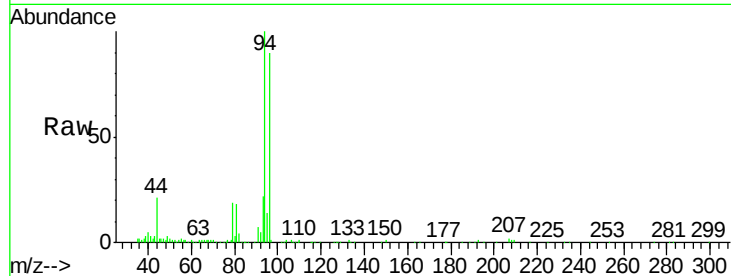
96 89.8 75.5 113.3

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#6

Chloroethane

Concen: 18.390 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW008724.D

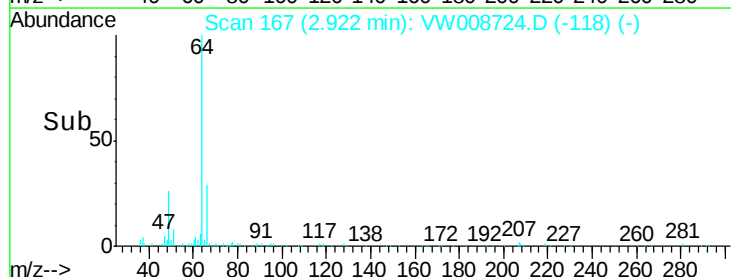
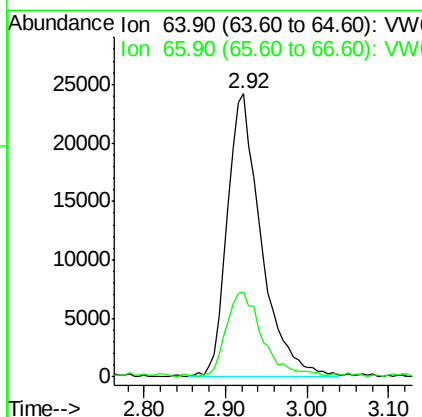
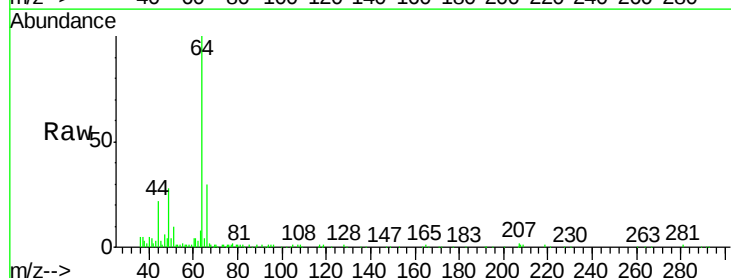
Acq: 18 Feb 2019 13:18

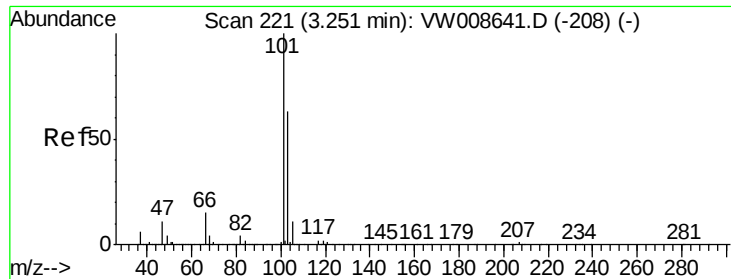
Tgt Ion: 64 Resp: 68558

Ion Ratio Lower Upper

64 100

66 29.5 26.2 39.4





#7

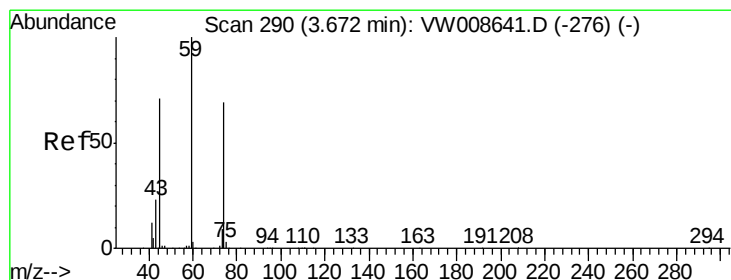
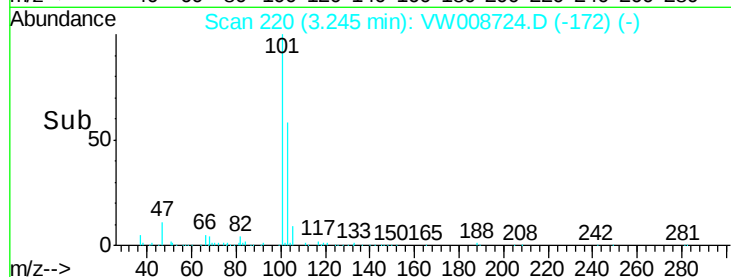
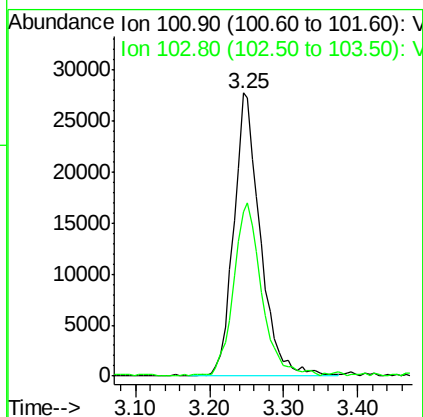
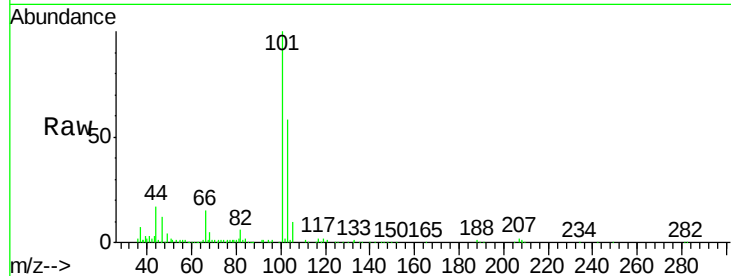
Trichlorofluoromethane
 Concen: 17.792 ug/l
 RT: 3.25 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

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Tot Ion	Ratio	Lower	Upper
101	100		
103	57.8	50.5	75.7

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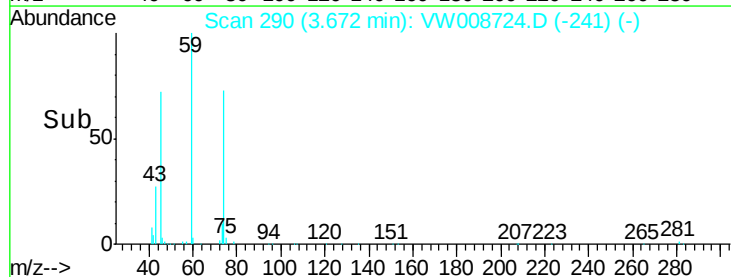
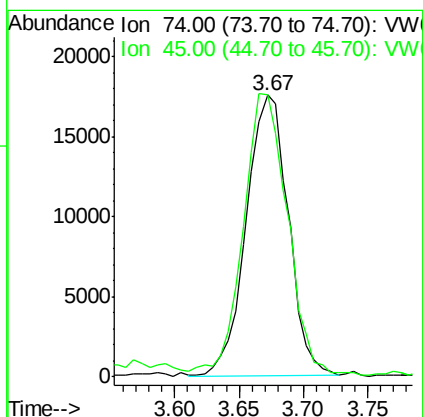
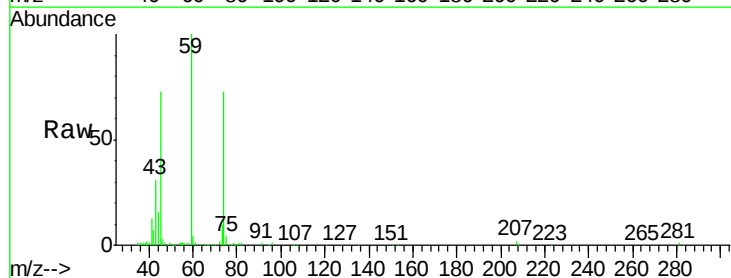
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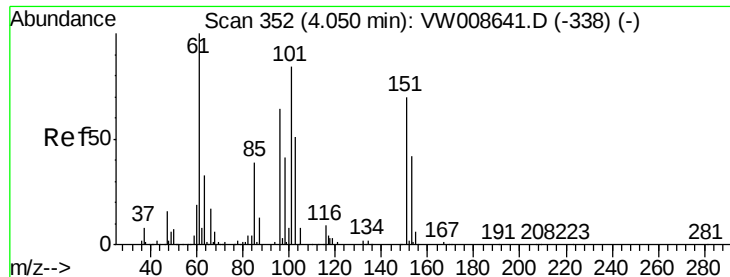


#8

Diethyl Ether
 Concen: 17.056 ug/l
 RT: 3.67 min Scan# 290
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.9	50.2	150.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.995 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

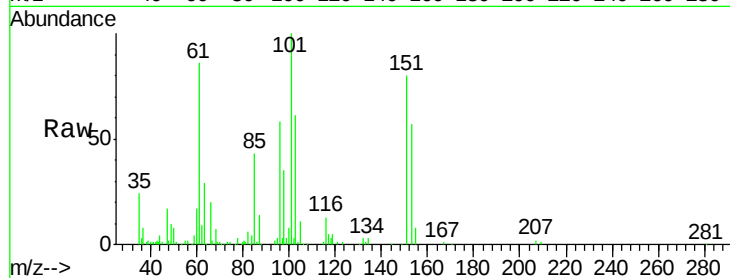
ClientSampleId :

VW0218SBS01

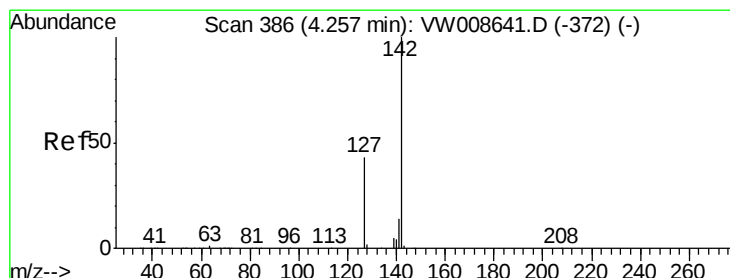
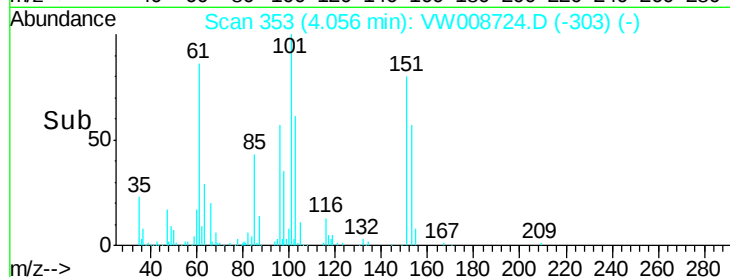
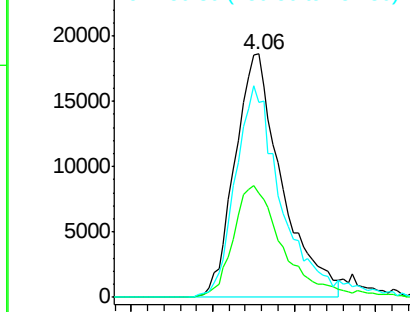
Tot Ion:	101	Resp:	74206
Ion Ratio	Lower	Upper	
101	100		
85	47.9	34.3	51.5
151	88.3	65.6	98.4

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 18.255 ug/l

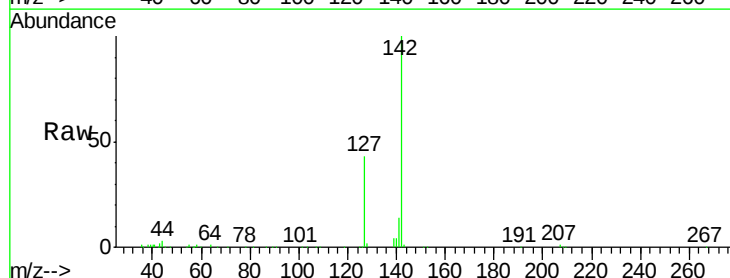
RT: 4.26 min Scan# 386

Delta R.T. 0.00 min

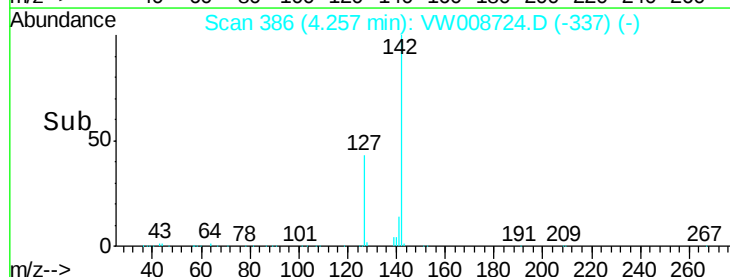
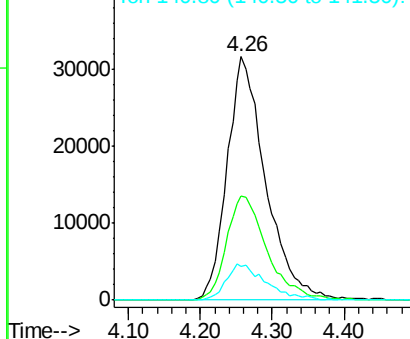
Lab File: VW008724.D

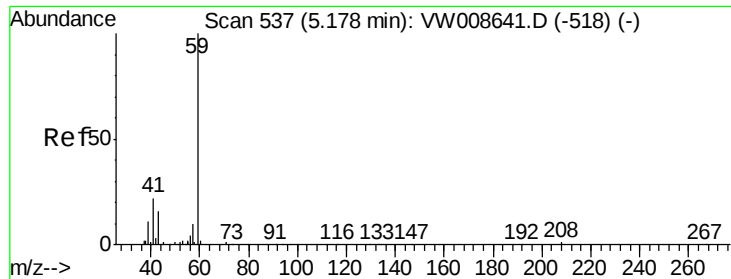
Acq: 18 Feb 2019 13:18

Tgt Ion:	142	Resp:	117498
Ion Ratio	Lower	Upper	
142	100		
127	45.1	34.8	52.2
141	15.5	11.8	17.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





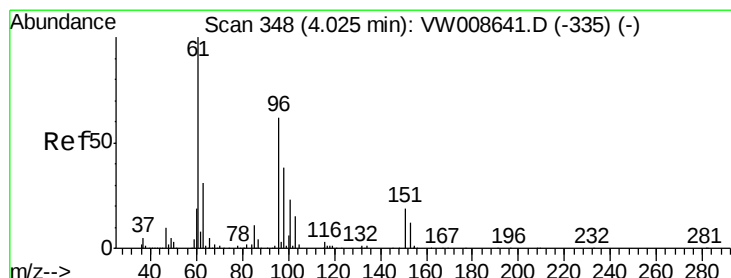
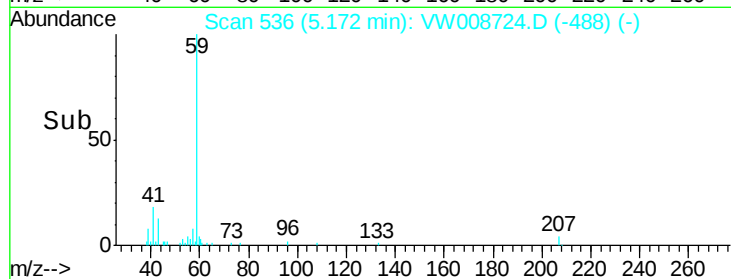
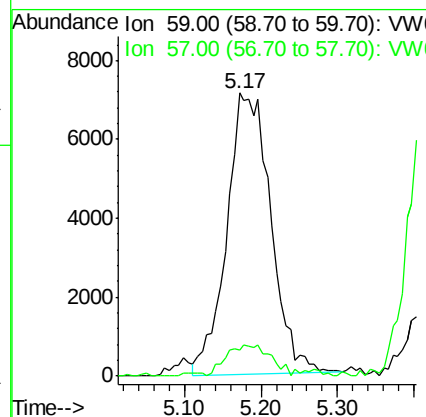
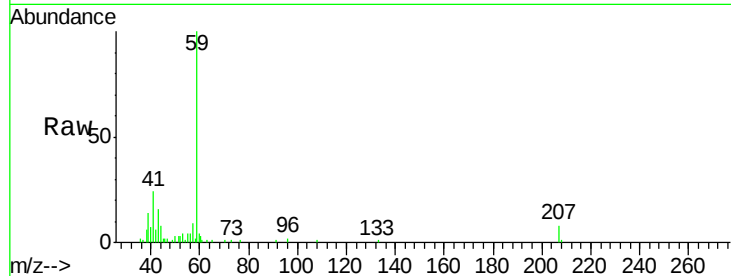
#11
Tert butyl alcohol
Concen: 82.424 ug/l
RT: 5.17 min Scan# 536
Delta R.T. -0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	28322		
57	0.0	8.3	12.5#	

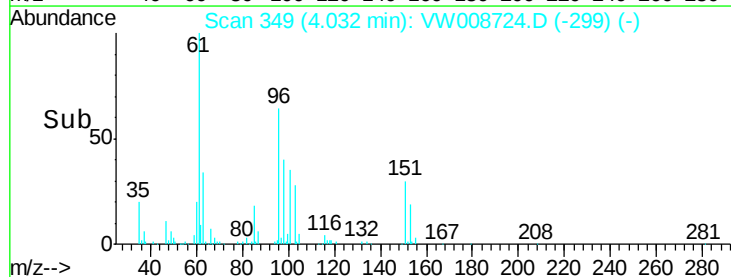
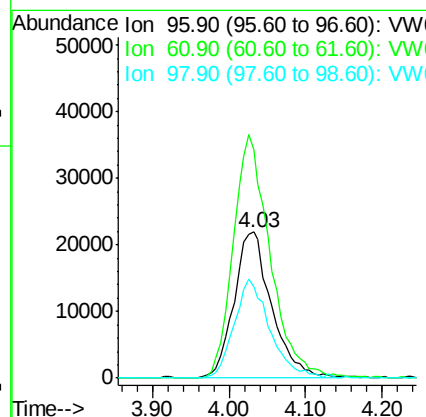
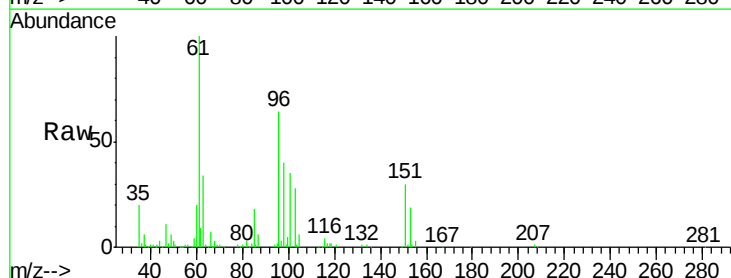
Manual Integrations
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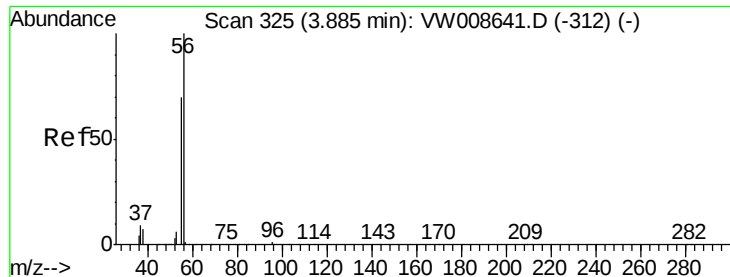
MMDadoda
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#12
1,1-Dichloroethene
Concen: 18.565 ug/l
RT: 4.03 min Scan# 349
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	74870		
61	155.5	129.8	194.6	
98	62.4	49.3	73.9	





#13

Acrolein

Concen: 80.619 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampled :

VW0218SBS01

Tot Ion: 56 Resp: 28541

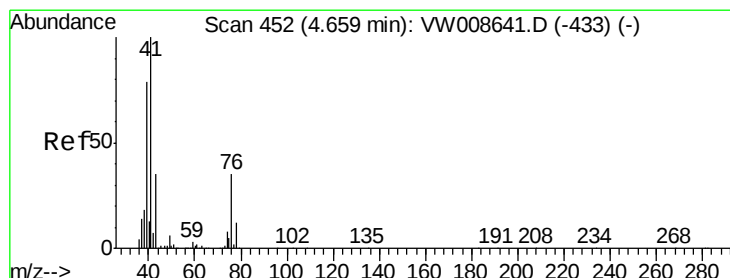
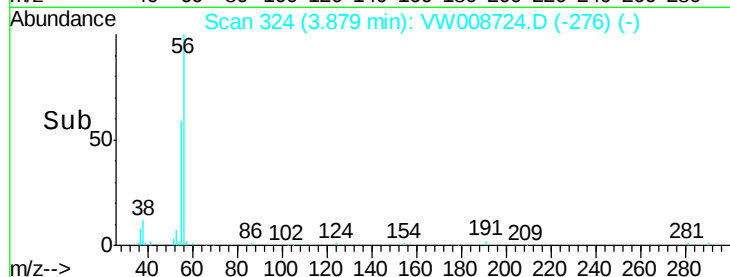
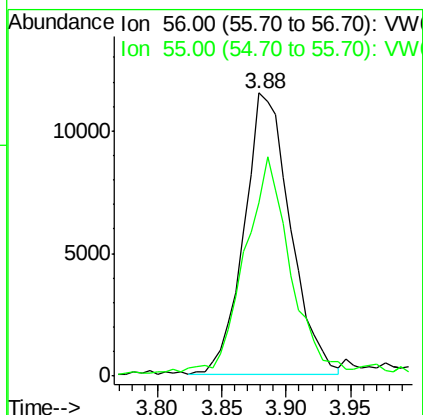
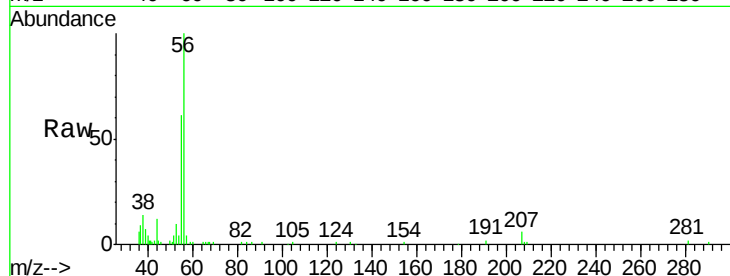
Ion Ratio Lower Upper

56 100

55 80.3 57.4 86.2

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#14

Allyl chloride

Concen: 18.193 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

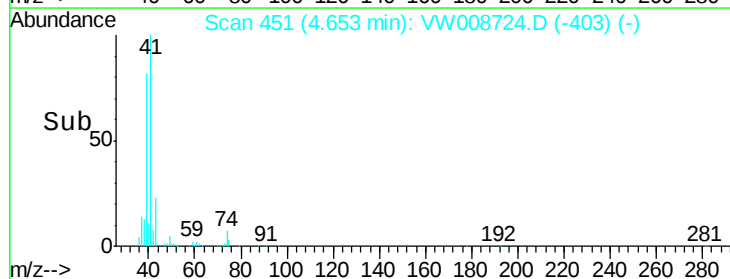
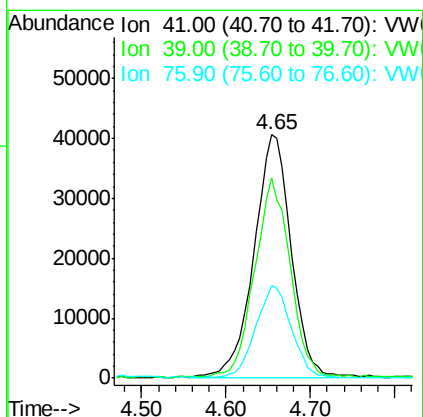
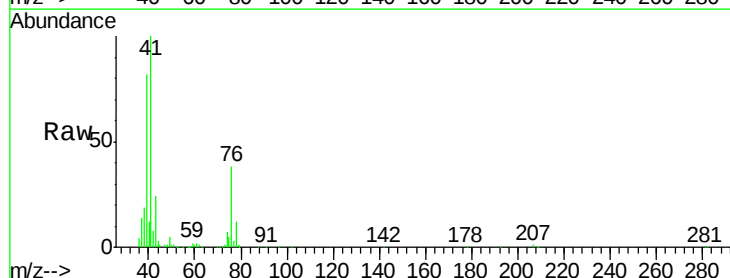
Tgt Ion: 41 Resp: 121899

Ion Ratio Lower Upper

41 100

39 78.4 61.7 92.5

76 36.9 27.7 41.5





#15

Acrylonitrile

Concen: 91.086 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

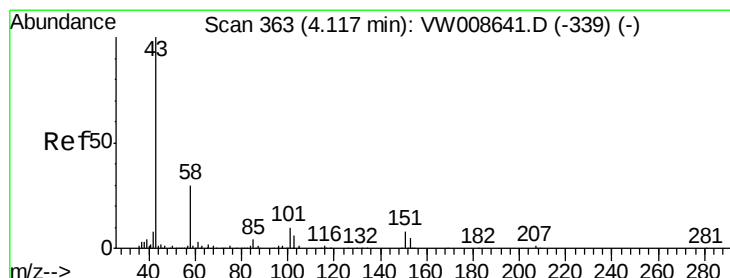
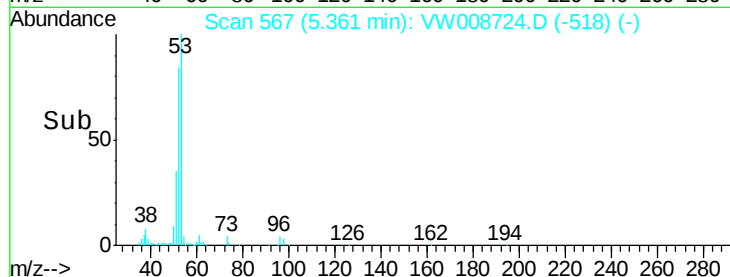
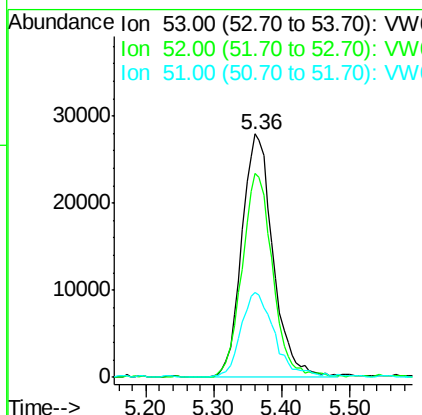
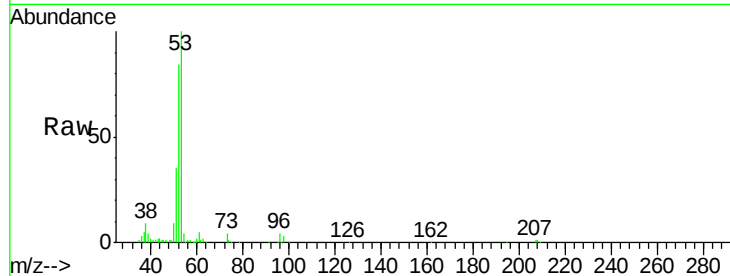
ClientSampleId :

VW0218SBS01

Tot Ion:	53	Resp:	89278
Ion Ratio	Lower	Upper	
53	100		
52	82.1	66.8	100.2
51	37.7	29.4	44.0

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#16

Acetone

Concen: 89.774 ug/l

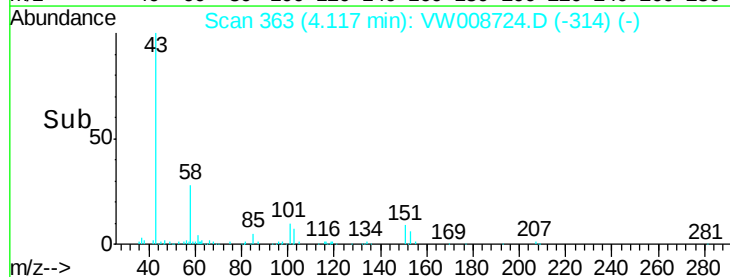
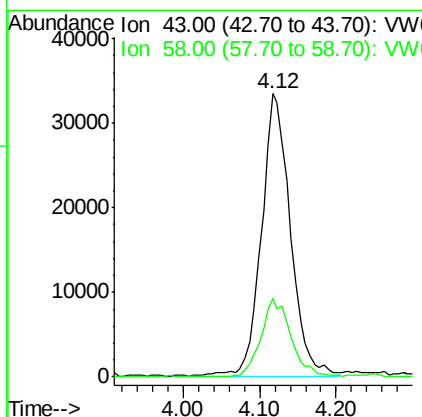
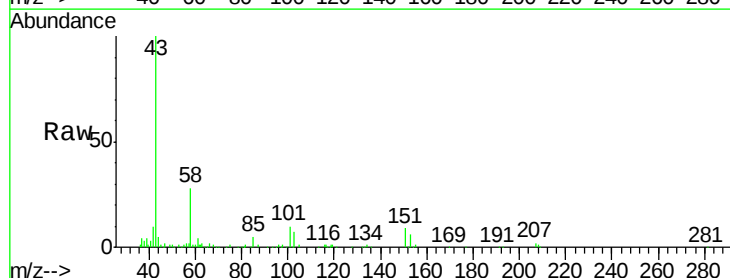
RT: 4.12 min Scan# 363

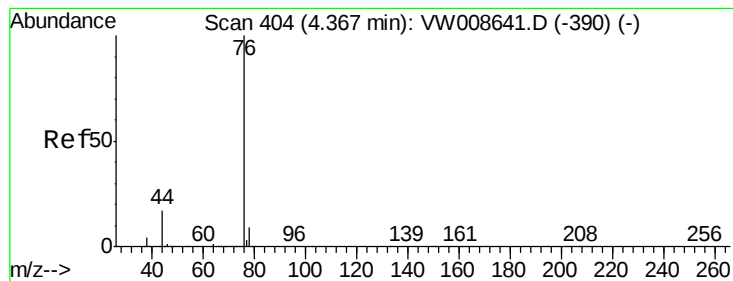
Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion:	43	Resp:	87734
Ion Ratio	Lower	Upper	
43	100		
58	28.0	24.1	36.1





#17

Carbon Disulfide

Concen: 18.189 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBSD01

Tot Ion: 76 Resp: 221368

Ion Ratio Lower Upper

76 100

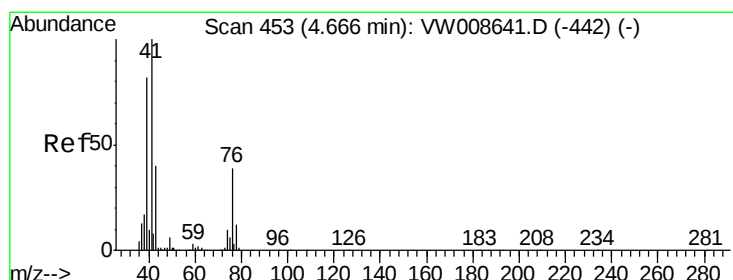
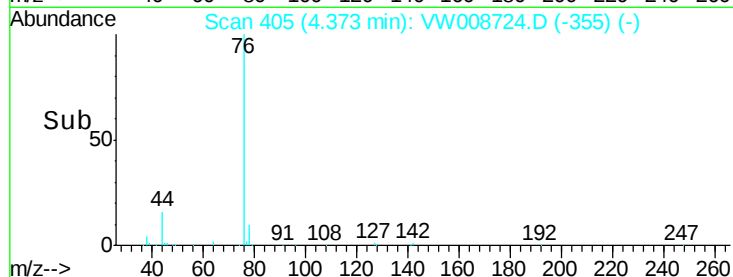
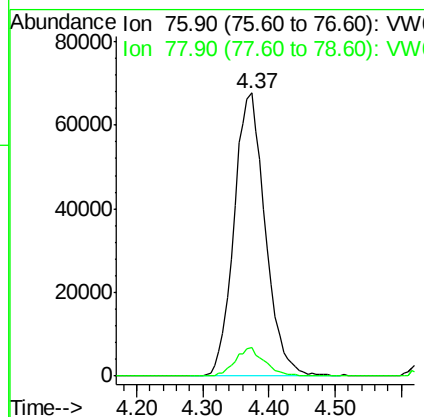
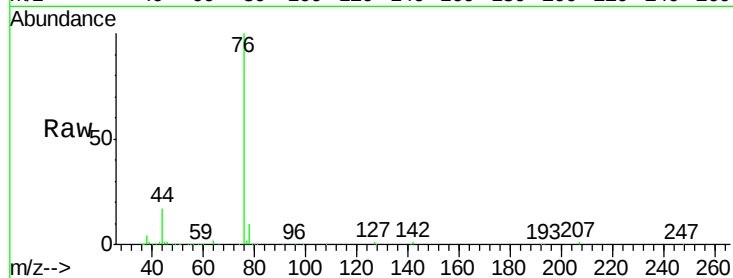
78 10.2 7.1 10.7

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#18

Methyl Acetate

Concen: 16.881 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW008724.D

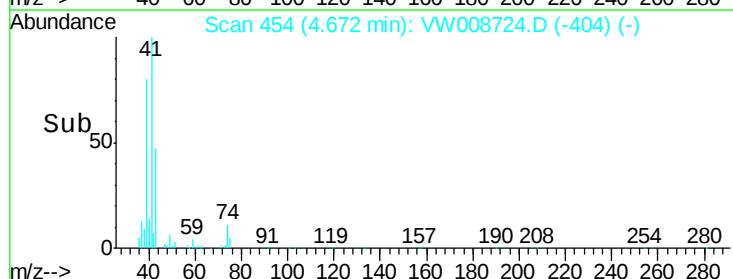
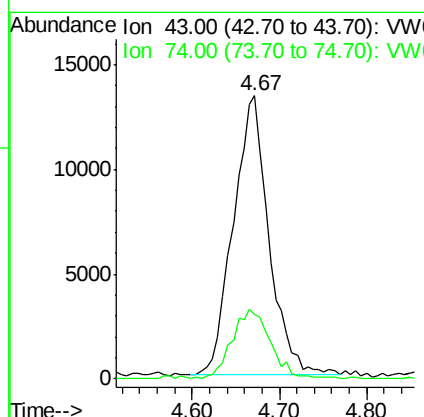
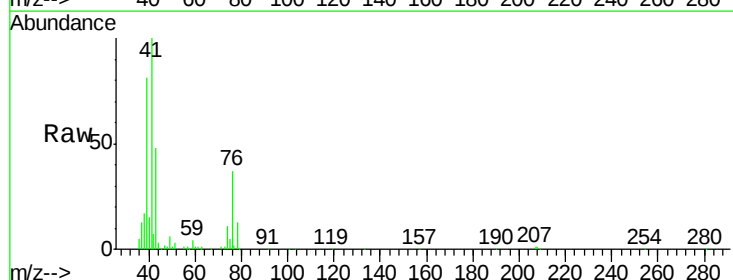
Acq: 18 Feb 2019 13:18

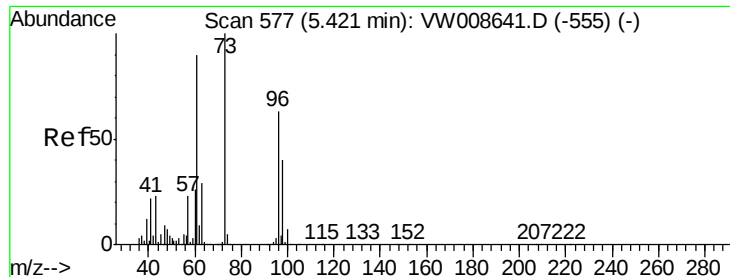
Tgt Ion: 43 Resp: 37698

Ion Ratio Lower Upper

43 100

74 27.2 19.0 28.4





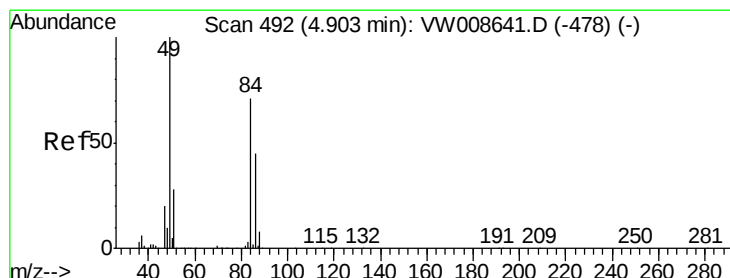
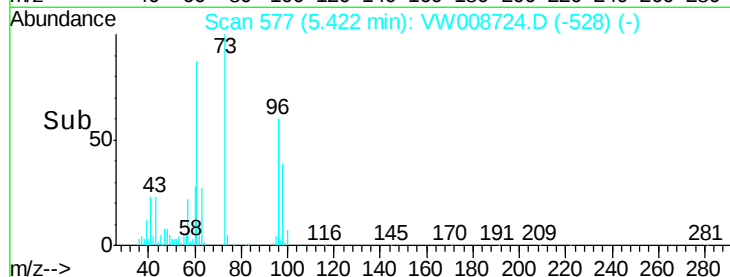
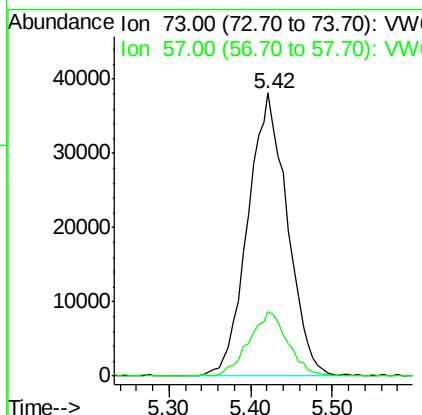
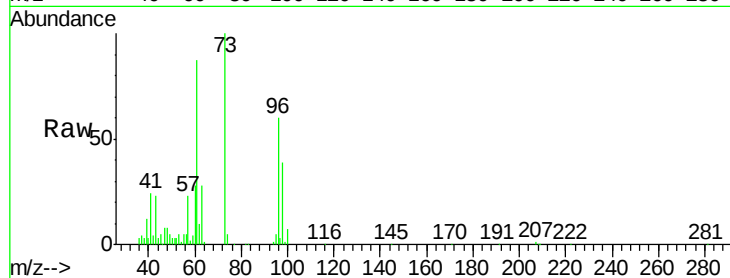
#19
Methvl tert-butvl Ether
Concen: 18.179 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion: 73 Resp: 128702
Ion Ratio Lower Upper
73 100
57 22.7 18.2 27.2

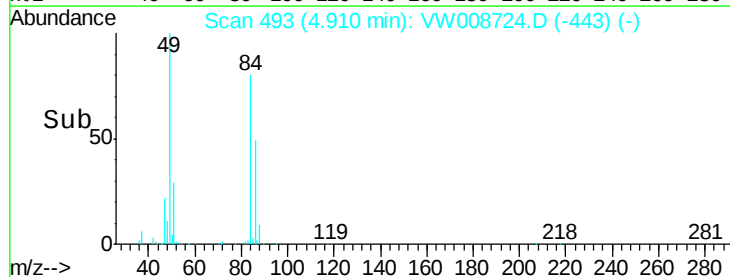
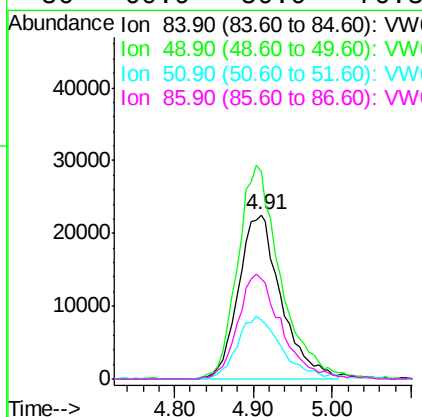
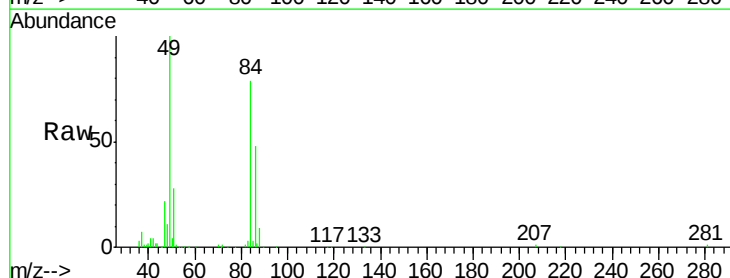
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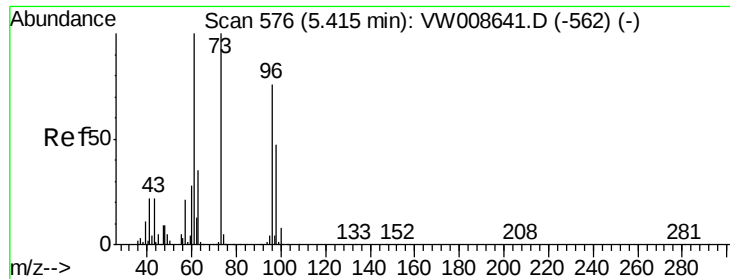
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#20
Methylene Chloride
Concen: 14.585 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion: 84 Resp: 84864
Ion Ratio Lower Upper
84 100
49 126.1 113.3 169.9
51 35.9 32.1 48.1
86 60.9 50.9 76.3





#21

trans-1,2-Dichloroethene

Concen: 18.858 ug/l

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

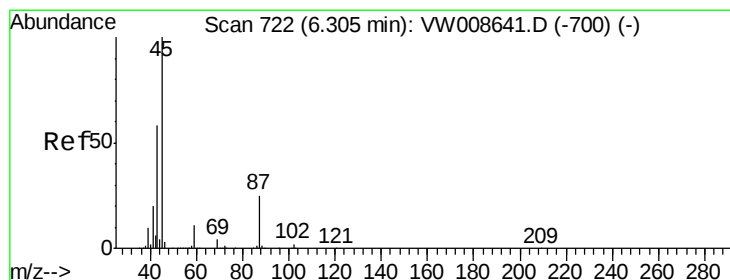
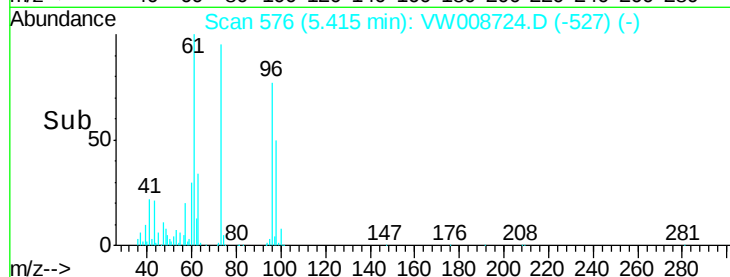
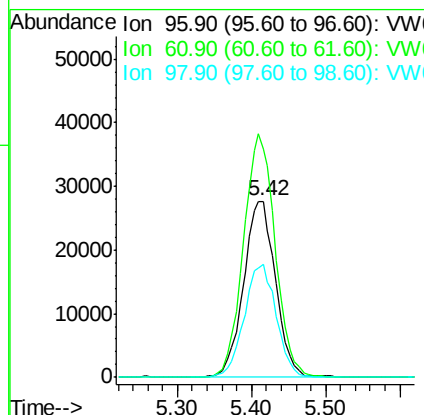
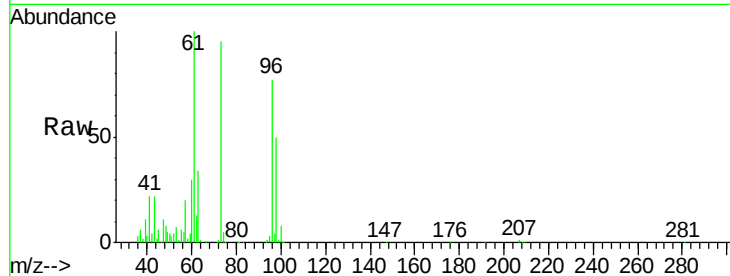
ClientSampleId :

VW0218SBS01

Tot Ion:	96	Resp:	83289
Ion	Ratio	Lower	Upper
96	100		
61	129.8	105.9	158.9
98	64.3	49.8	74.6

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#22

Diisopropyl ether

Concen: 18.142 ug/l

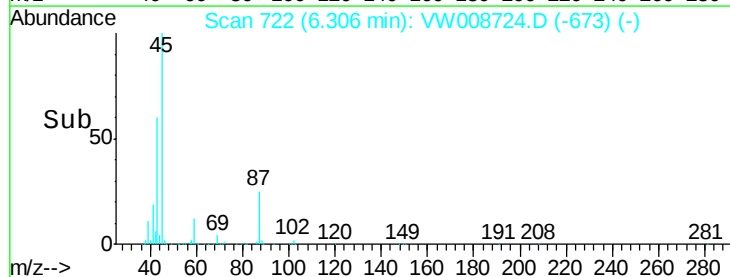
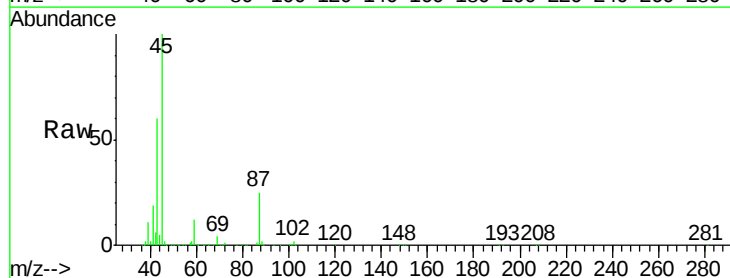
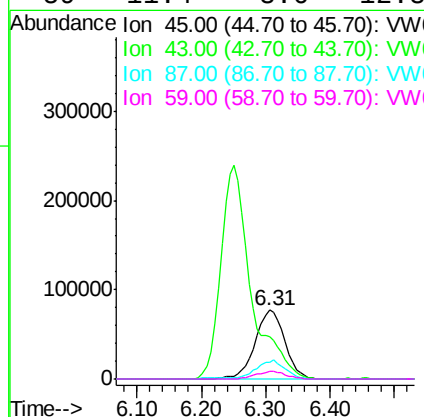
RT: 6.31 min Scan# 722

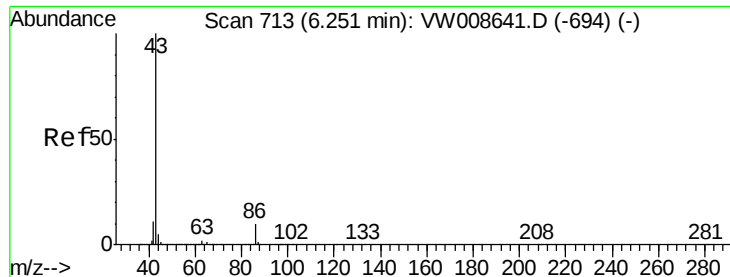
Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion:	45	Resp:	244651
Ion	Ratio	Lower	Upper
45	100		
43	60.0	46.1	69.1
87	24.7	20.5	30.7
59	11.4	8.6	12.8





#23

Vinyl Acetate

Concen: 90.090 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 43 Resp: 788505

Ion Ratio Lower Upper

43 100

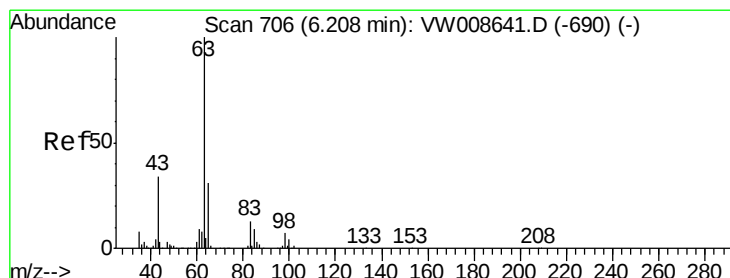
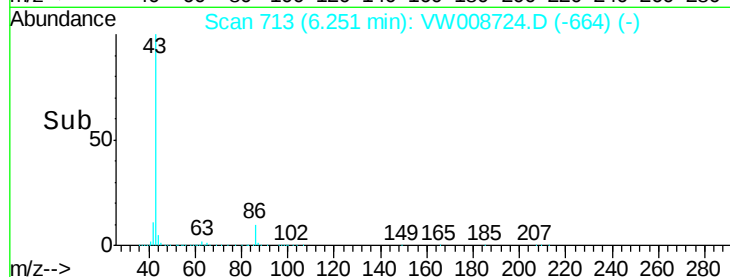
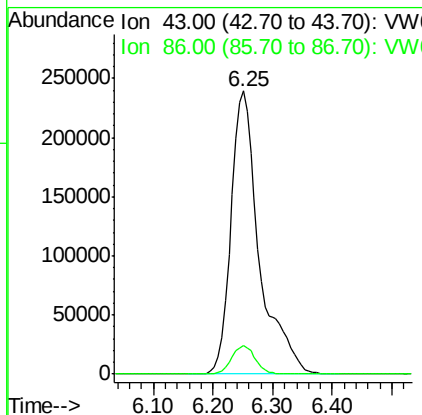
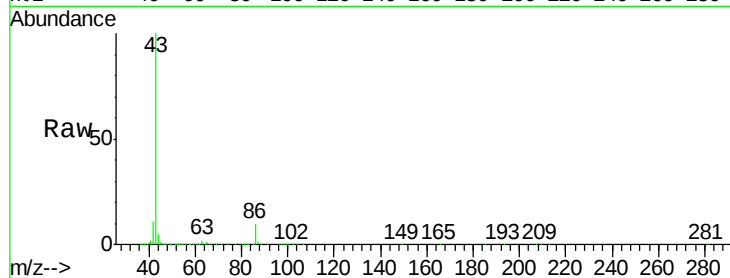
86 10.3 7.9 11.9

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 18.789 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

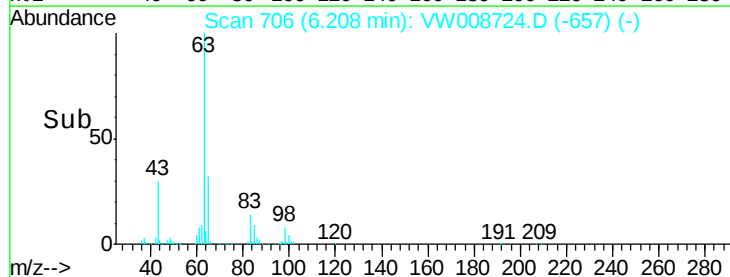
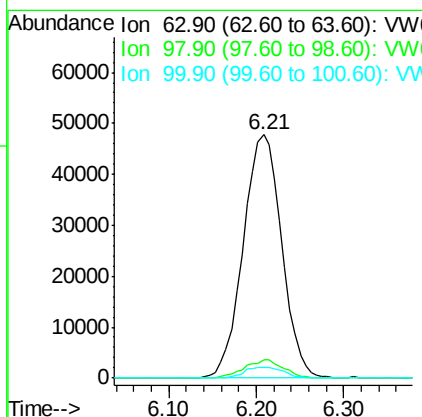
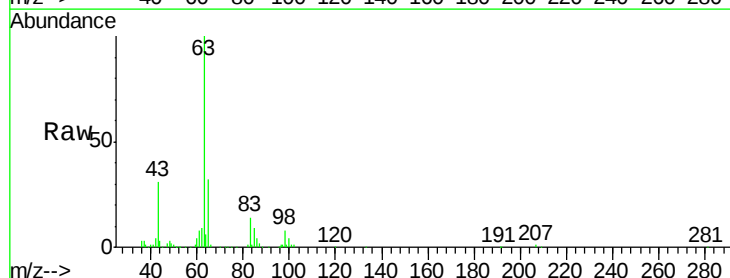
Tgt Ion: 63 Resp: 146214

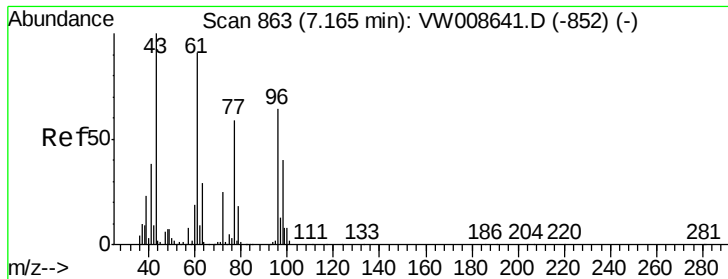
Ion Ratio Lower Upper

63 100

98 7.7 3.6 10.8

100 4.3 2.2 6.6





#25

2-Butanone

Concen: 91.006 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 43 Resp: 125586

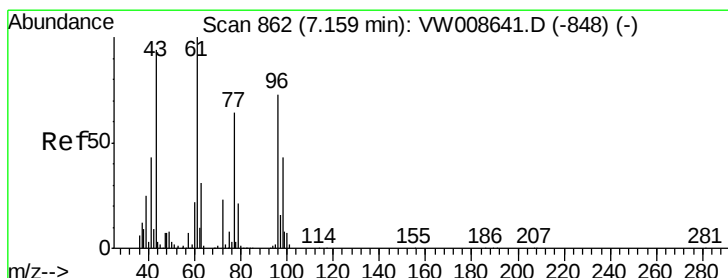
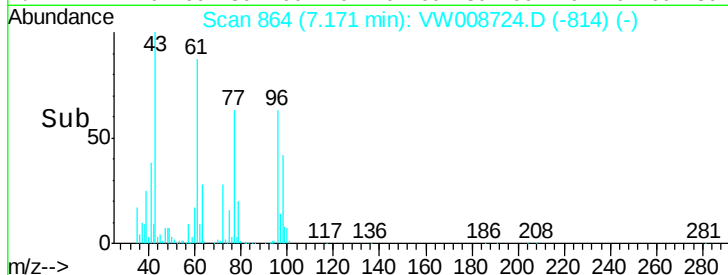
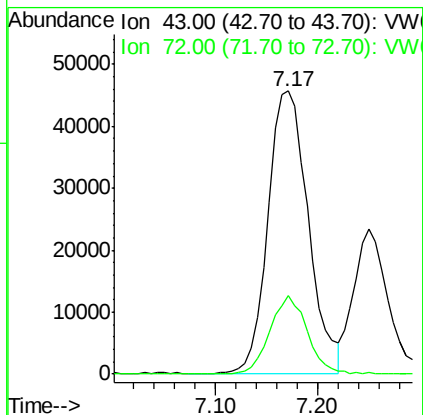
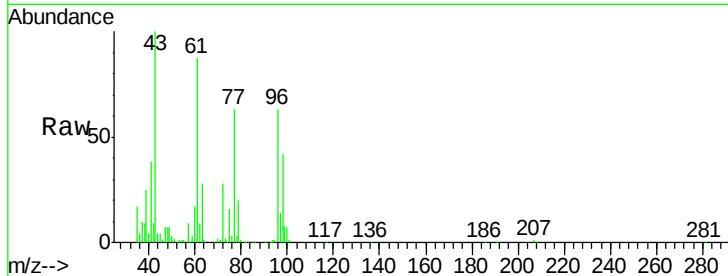
Ion Ratio Lower Upper

43 100

72 27.9 19.7 29.5

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#26

2,2-Dichloropropane

Concen: 20.543 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW008724.D

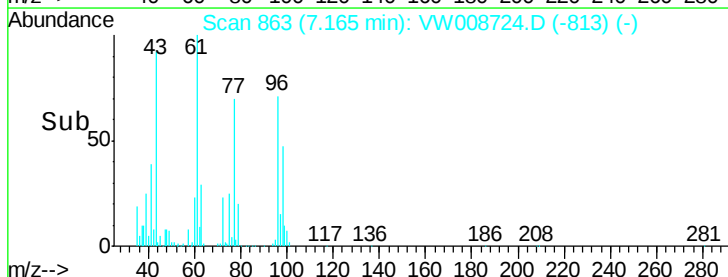
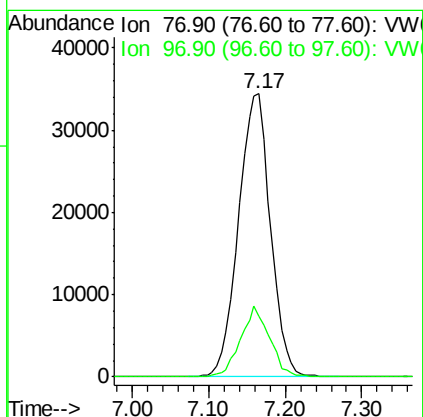
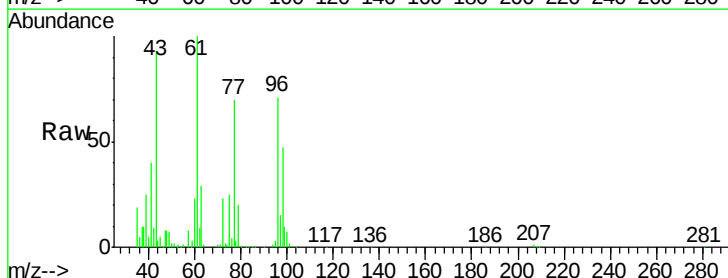
Acq: 18 Feb 2019 13:18

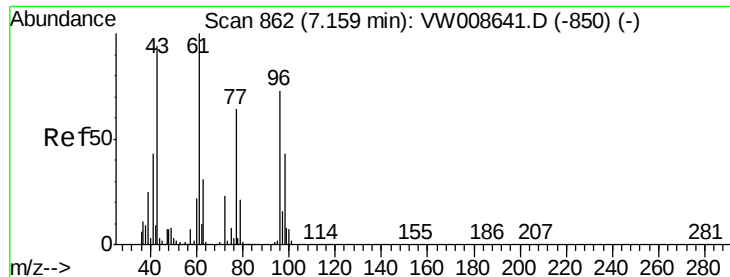
Tgt Ion: 77 Resp: 99867

Ion Ratio Lower Upper

77 100

97 22.5 11.7 35.0





#27

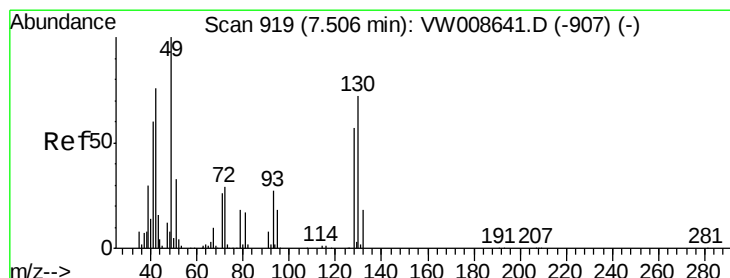
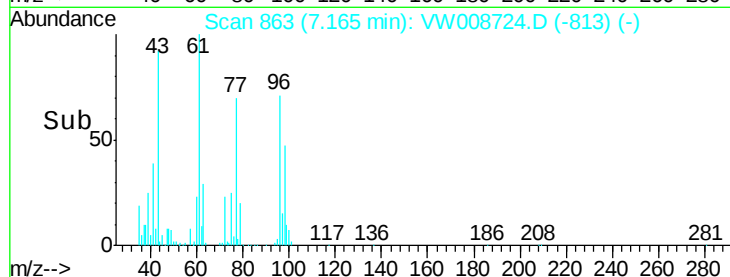
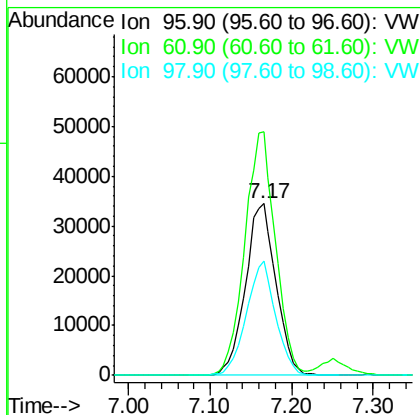
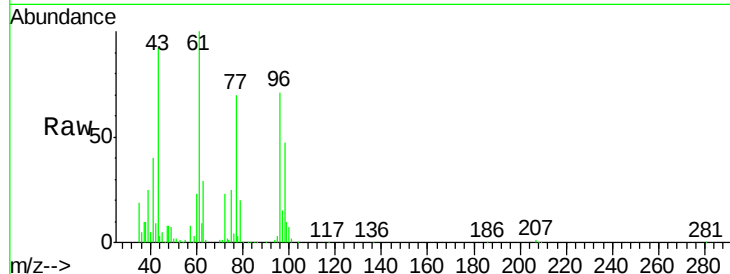
cis-1,2-Dichloroethene
Concen: 18.891 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	142.1	0.0	286.4	
98	63.8	0.0	125.0	

Manual Integrations
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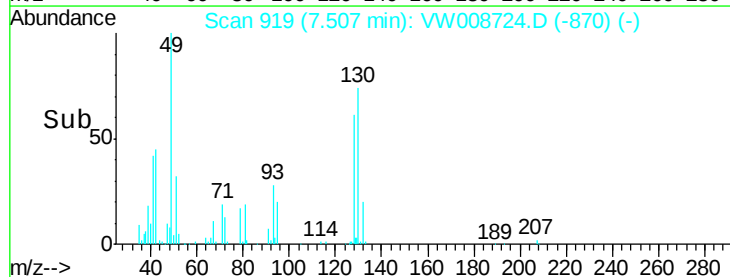
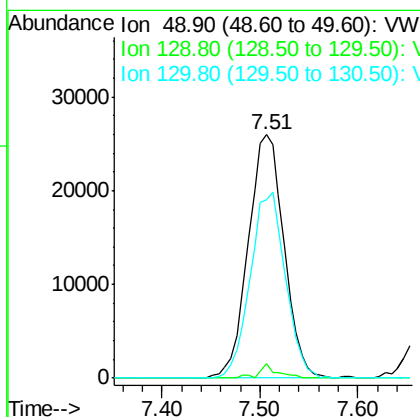
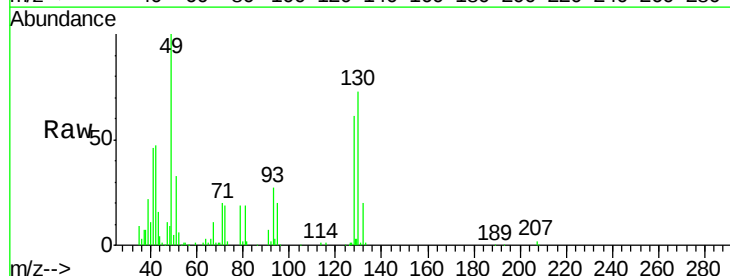
MMDadoda
2/19/2019 11:12:43 AM

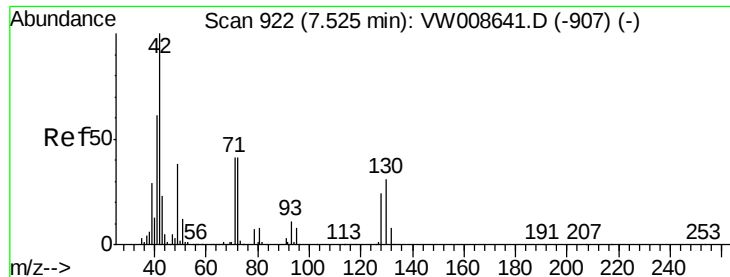


#28

Bromochloromethane
Concen: 20.059 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.8	0.0	3.2	
130	75.3	59.4	89.0	





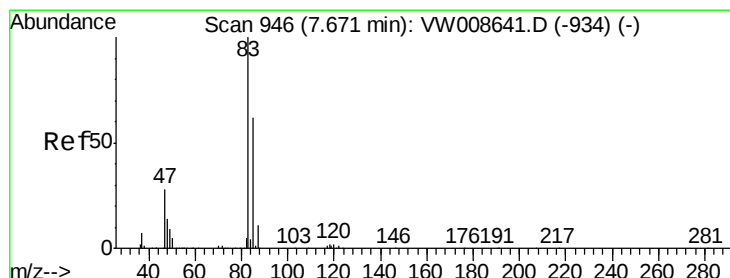
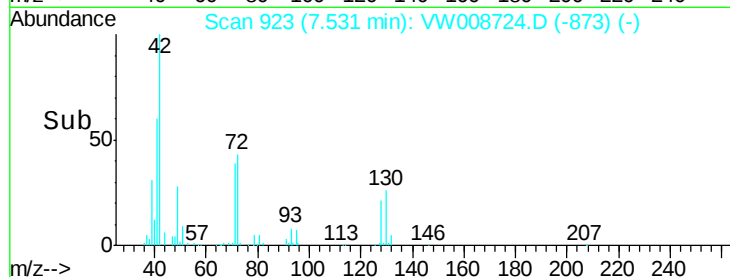
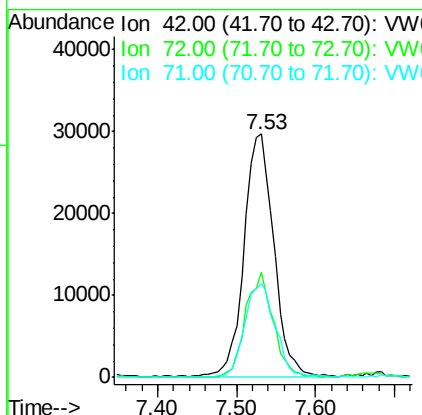
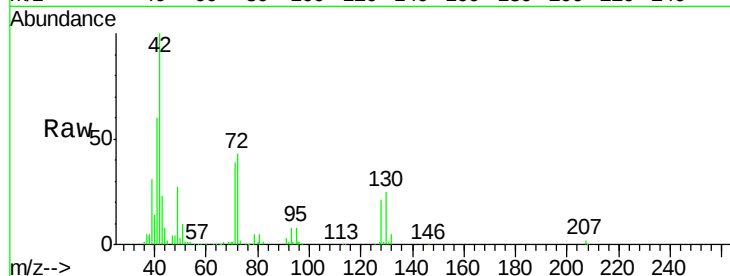
#29
Tetrahydrofuran
Concen: 85.409 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.7	32.2	48.2
71	39.8	31.0	46.6

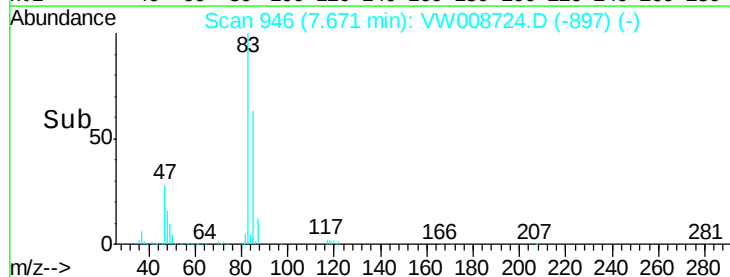
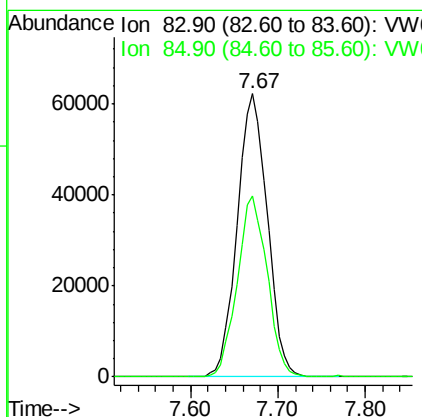
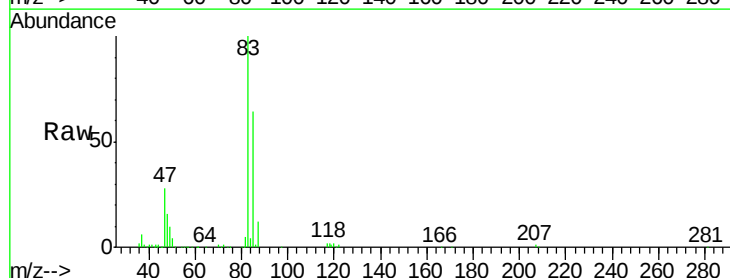
Manual Integrations
APPROVED

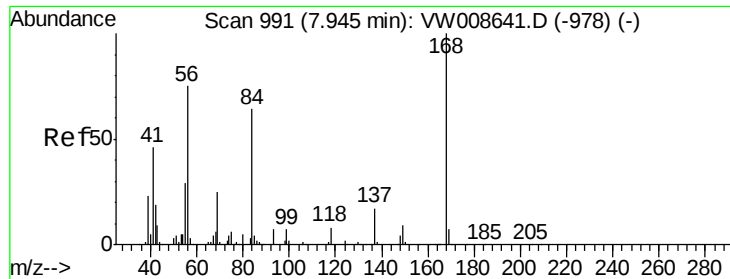
MMDadoda
2/19/2019 11:12:43 AM



#30
Chloroform
Concen: 19.086 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	49.8	74.8





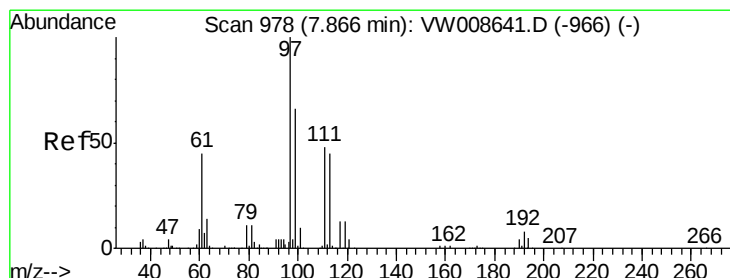
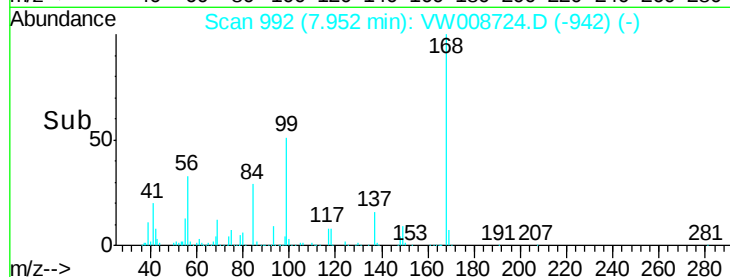
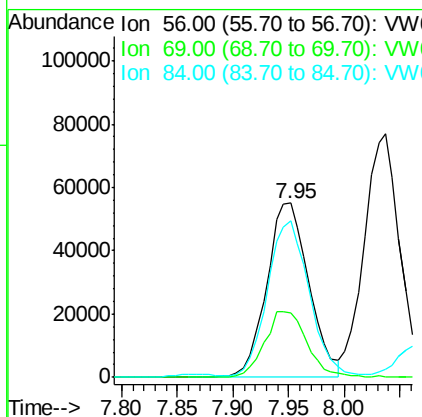
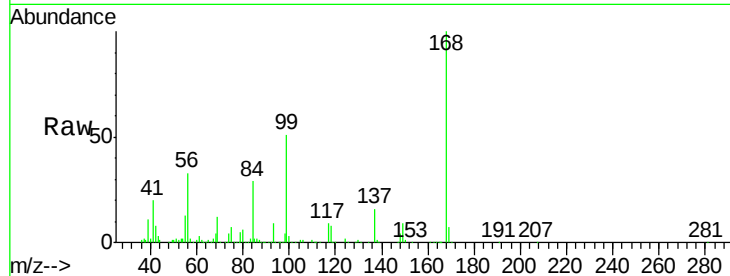
#31
Cyclohexane
Concen: 18.510 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.8	26.4	39.6
84	88.2	67.4	101.2

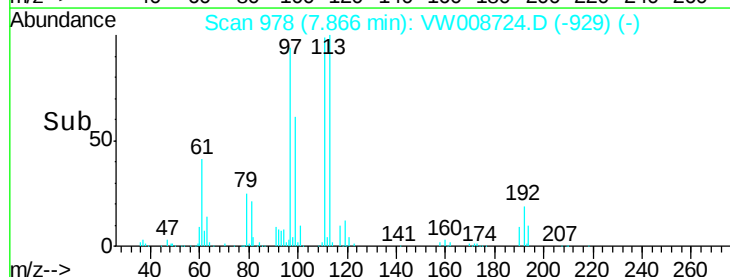
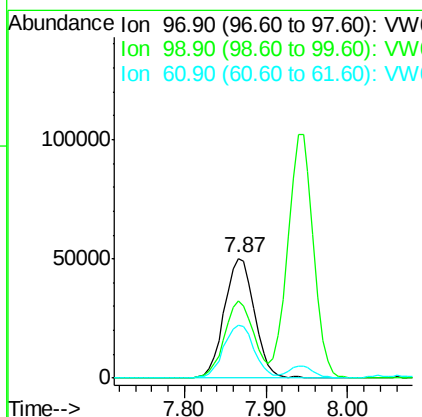
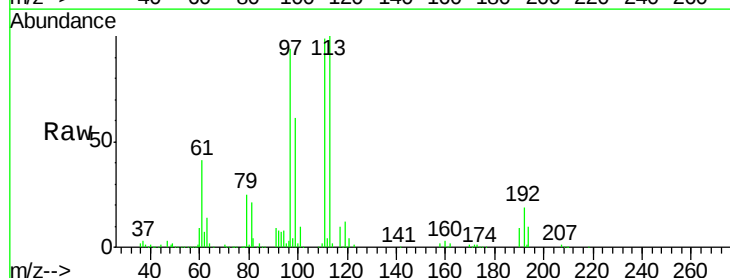
Manual Integrations
APPROVED

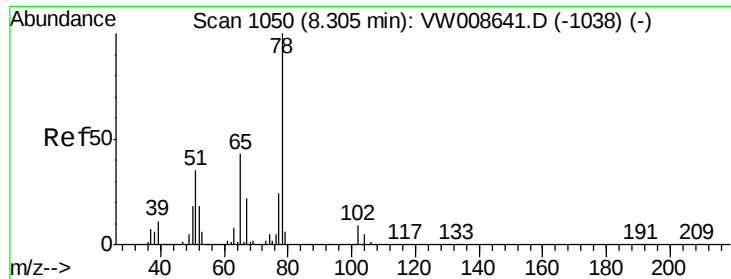
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2/19/2019 11:12:43 AM



#32
1,1,1-Trichloroethane
Concen: 19.422 ug/l
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.6	77.4
61	44.3	35.8	53.6





#33

1,2-Dichloroethane-d4

Concen: 45.749 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 65 Resp: 196476

Ion Ratio Lower Upper

65 100

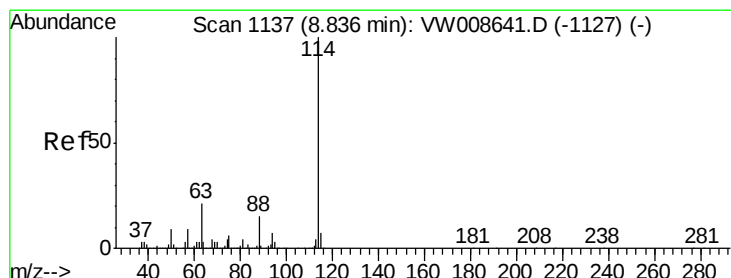
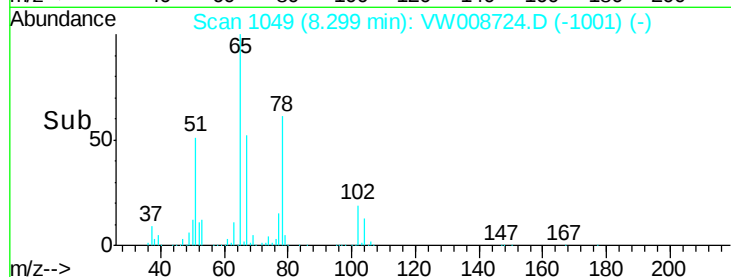
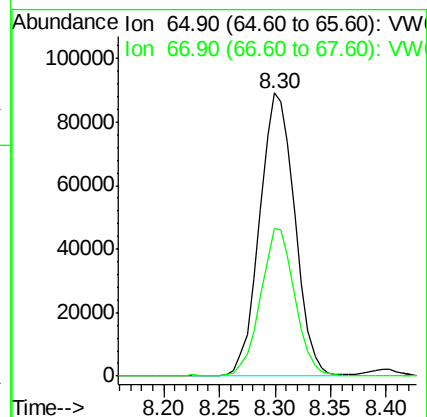
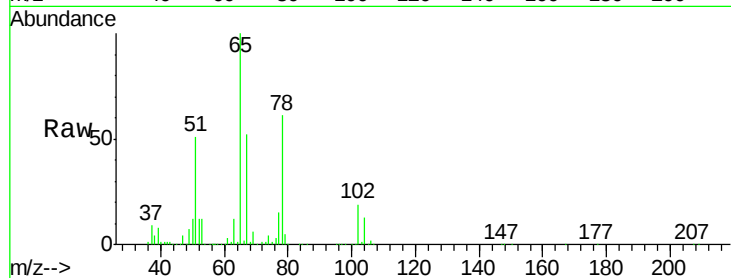
67 50.8 0.0 102.0

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

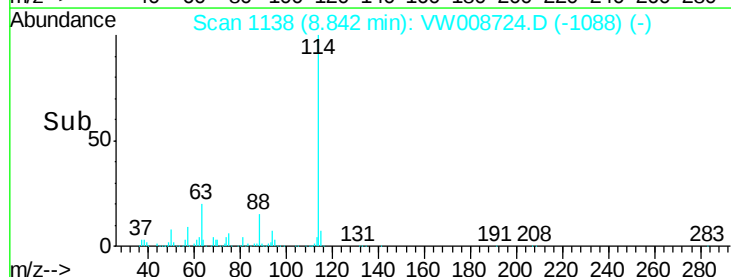
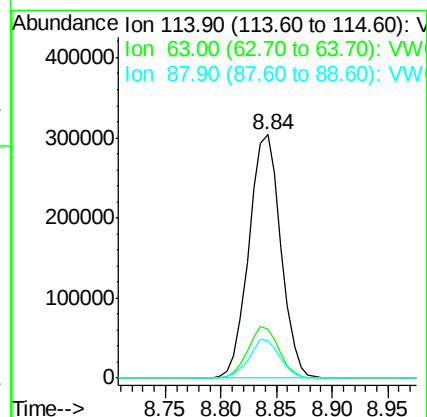
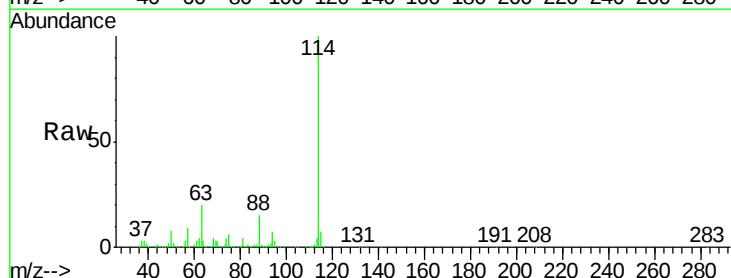
Tgt Ion: 114 Resp: 607200

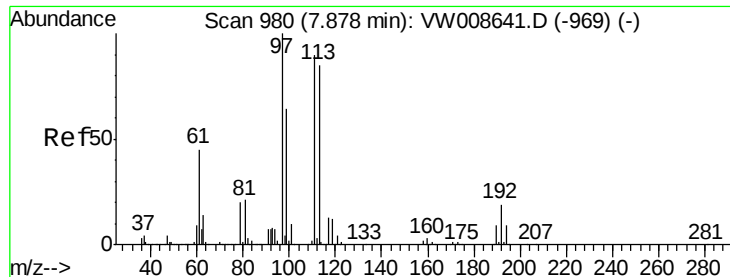
Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.2

88 15.4 0.0 29.6





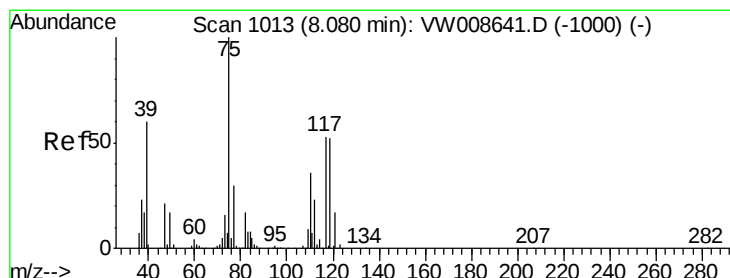
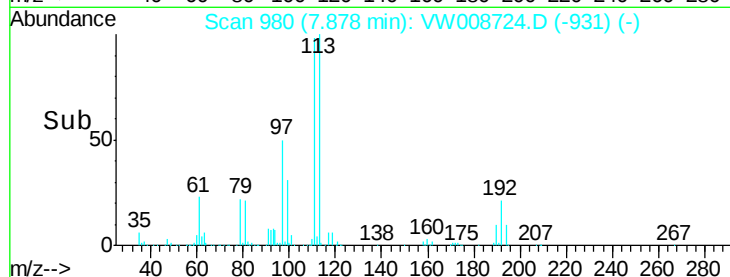
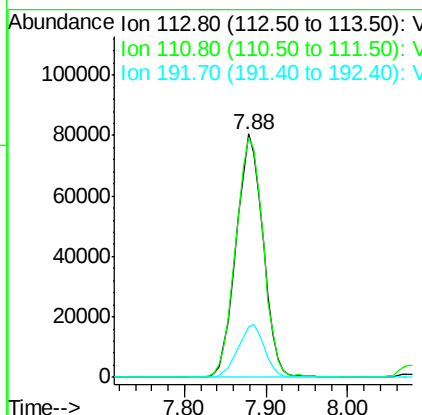
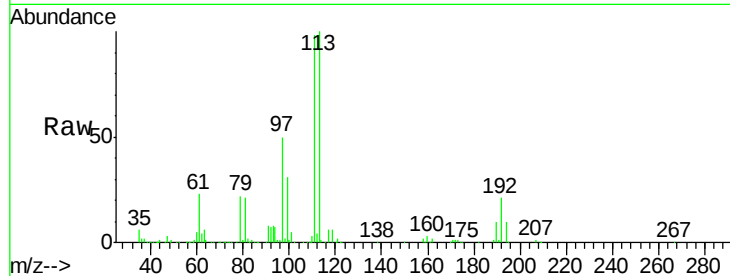
#35
 Dibromofluoromethane
 Concen: 48.562 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	183096		
111	101.0		84.0	126.0
192	21.5		17.4	26.2

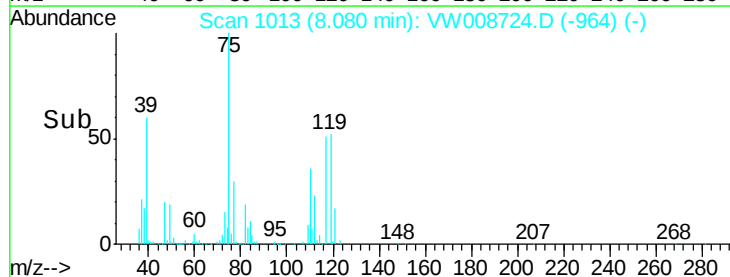
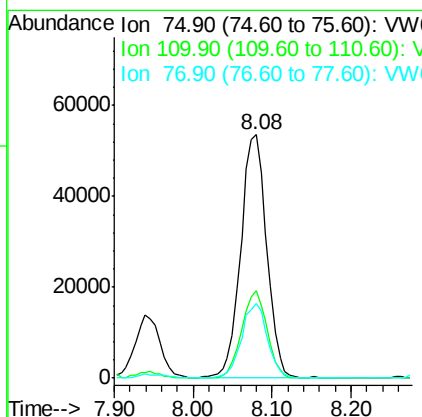
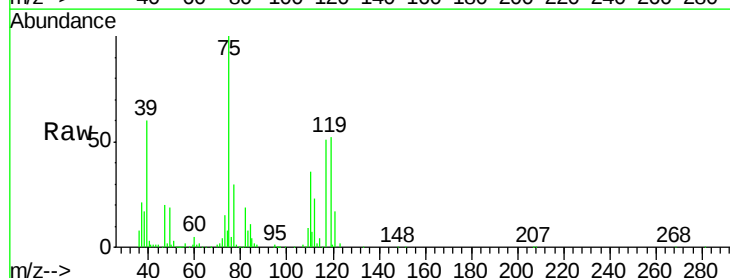
Manual Integrations
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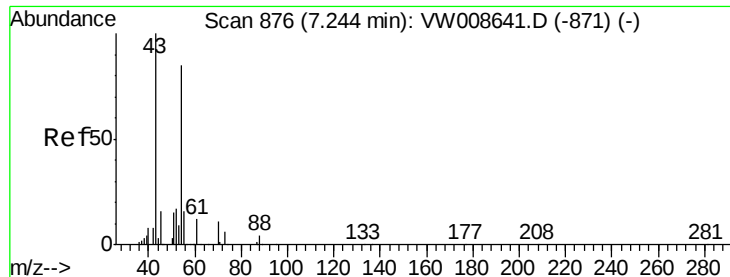
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#36
 1,1-Dichloropropene
 Concen: 20.183 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	123124		
110	35.0		17.8	53.3
77	30.6		24.7	37.1





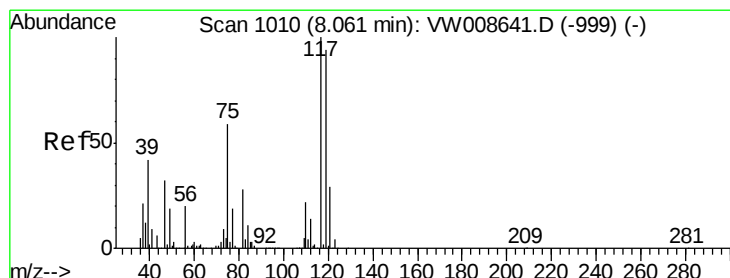
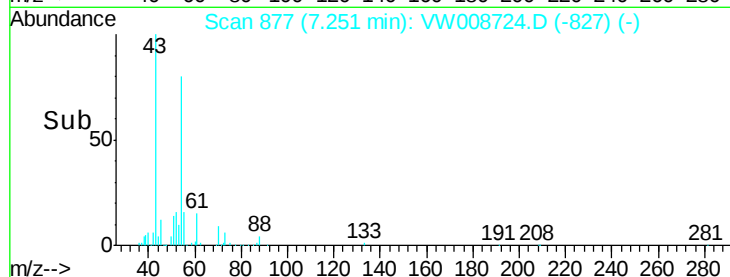
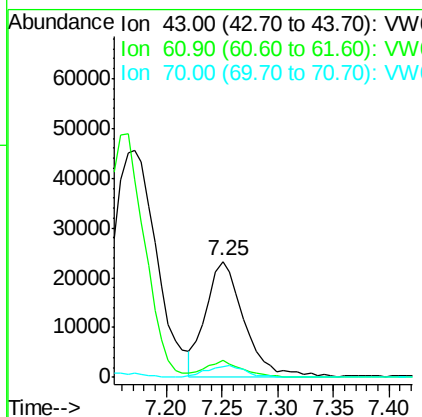
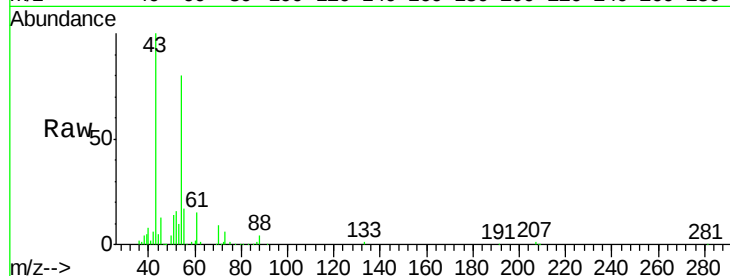
#37
Ethyl Acetate
Concen: 18.723 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	10.5	15.7
70	10.8	8.1	12.1

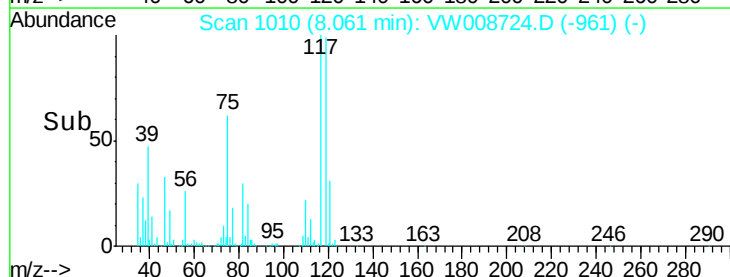
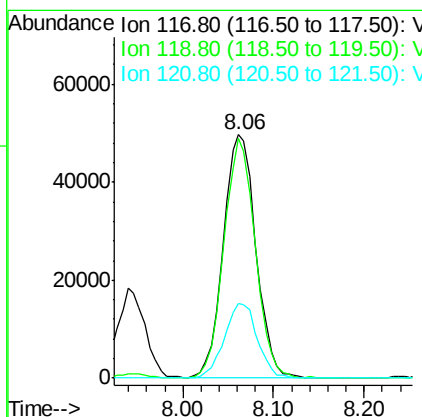
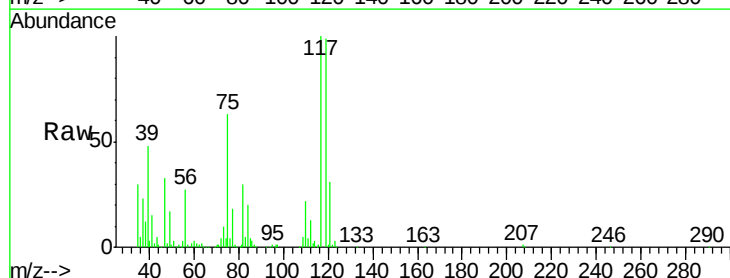
Manual Integrations
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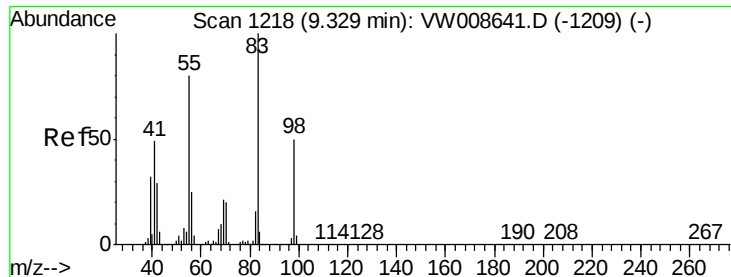
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2/19/2019 11:12:43 AM



#38
Carbon Tetrachloride
Concen: 20.476 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	75.1	112.7
121	30.6	23.5	35.3





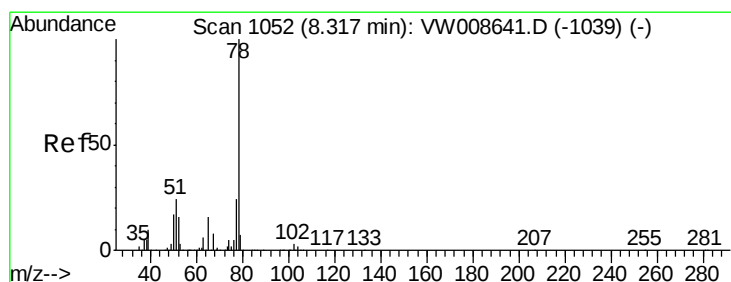
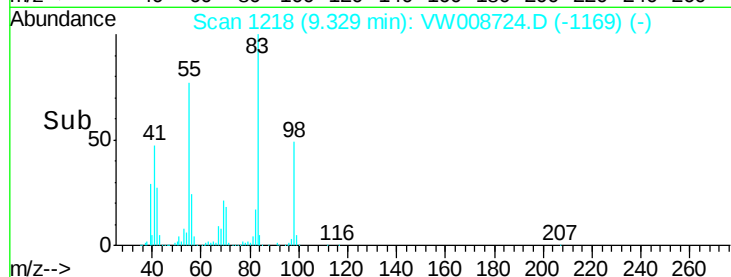
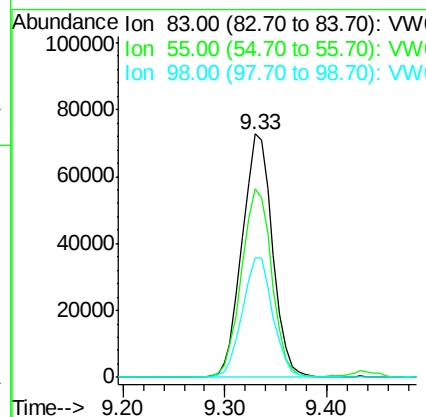
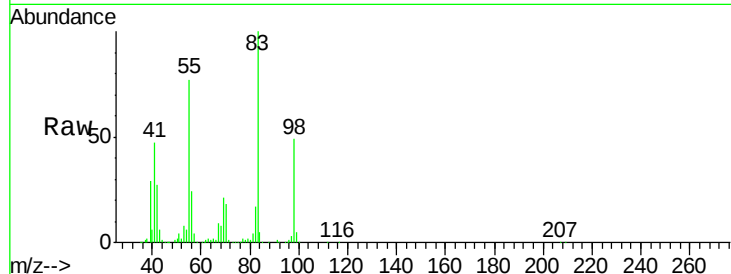
#39
Methvlcvclohexane
Concen: 19.529 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	150689		
55	77.5	63.9	95.9	
98	49.1	40.2	60.2	

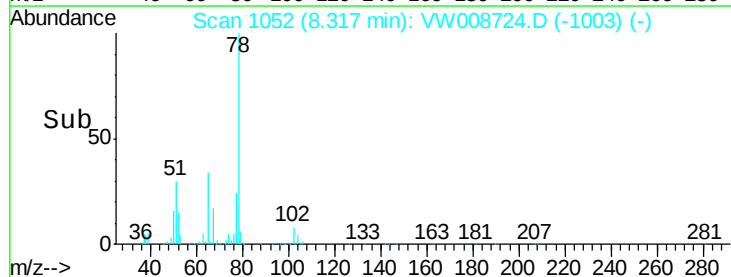
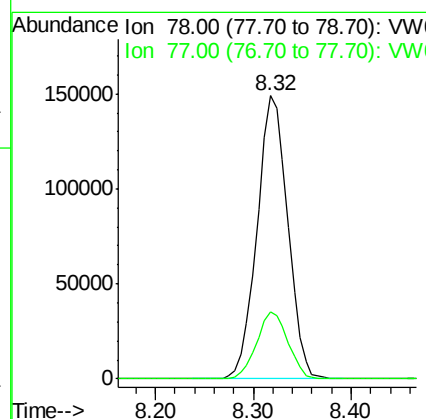
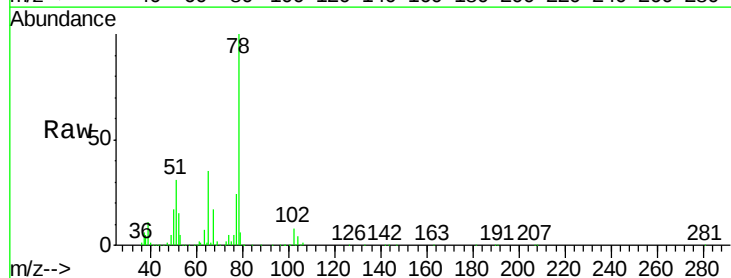
Manual Integrations
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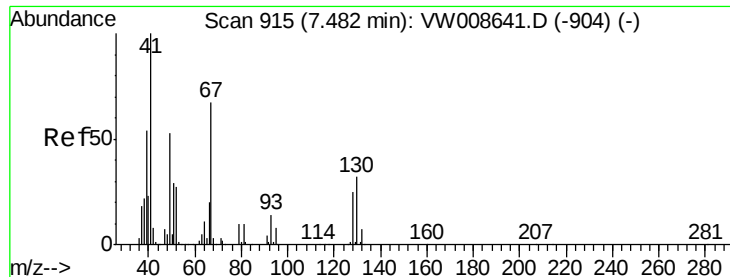
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#40
Benzene
Concen: 19.459 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	324198		
77	23.7	19.5	29.3	





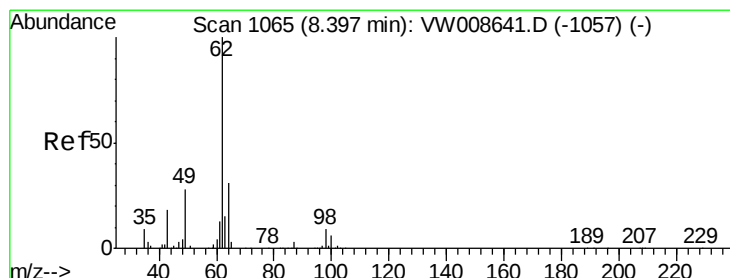
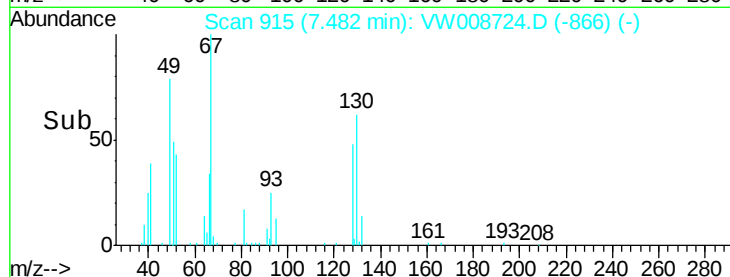
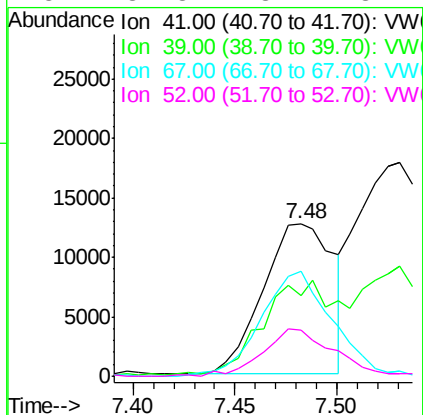
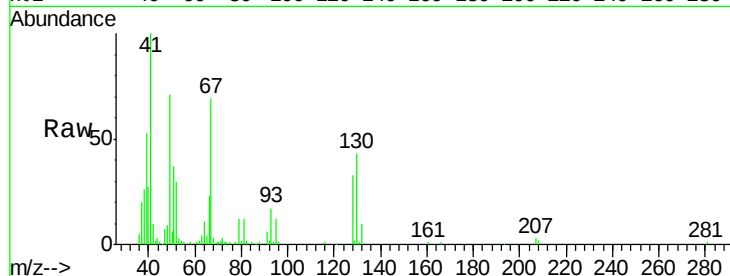
#41
Methacrylonitrile
Concen: 18.407 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.3	39.7	59.5#
67	71.7	52.5	78.7
52	31.8	23.1	34.7

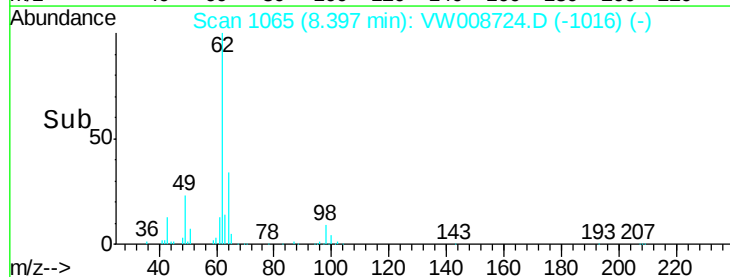
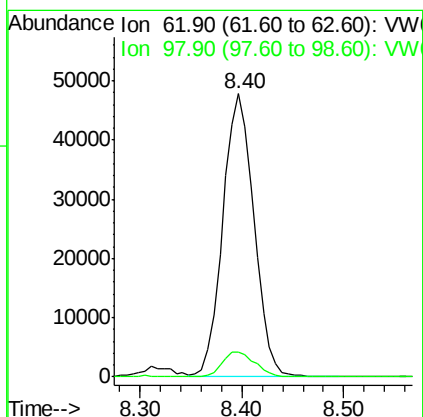
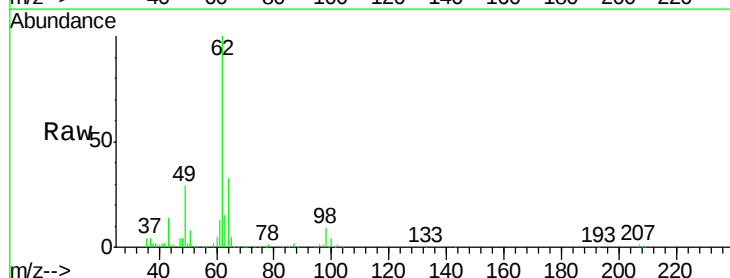
Manual Integrations
APPROVED

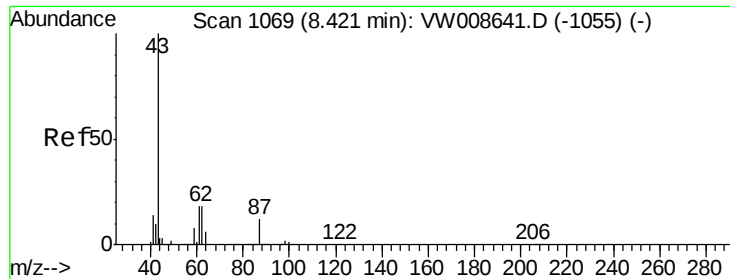
MMDadoda
2/19/2019 11:12:43 AM



#42
1,2-Dichloroethane
Concen: 19.564 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.2





#43

Isopropyl Acetate

Concen: 18.199 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

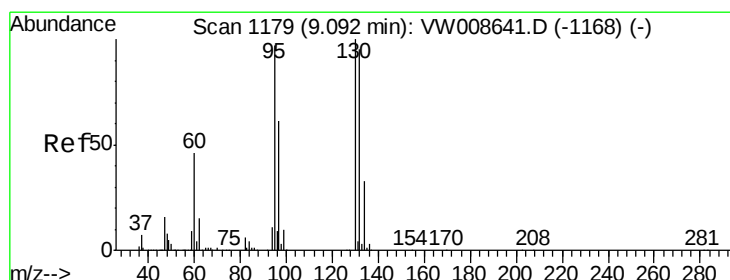
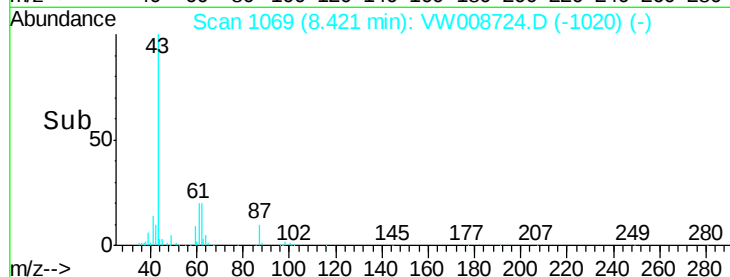
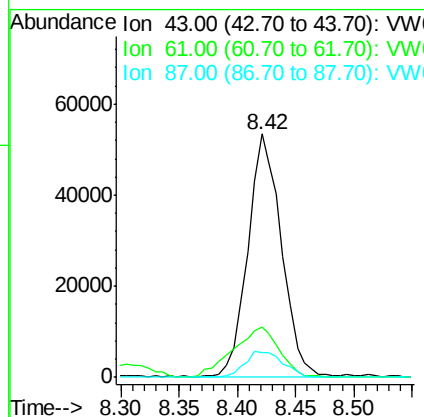
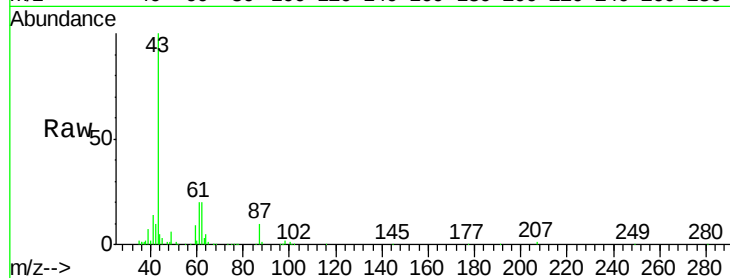
ClientSampleId :

VW0218SBS01

Tot Ion:	43	Resp:	106790
Ion	Ratio	Lower	Upper
43	100		
61	28.7	21.4	32.2
87	12.4	9.8	14.8

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#44

Trichloroethene

Concen: 20.081 ug/l

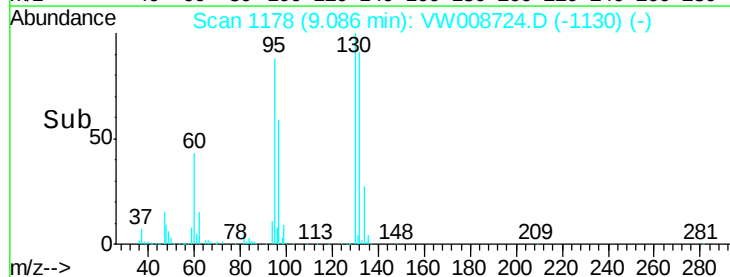
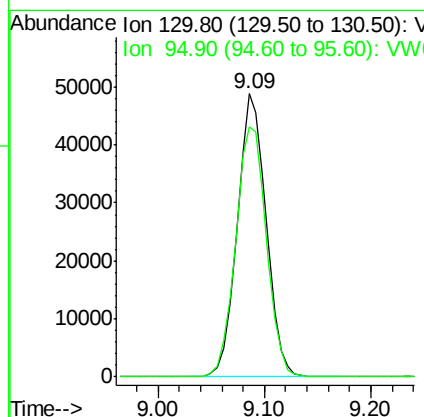
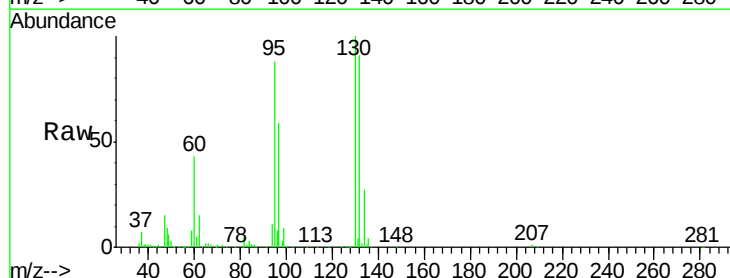
RT: 9.09 min Scan# 1178

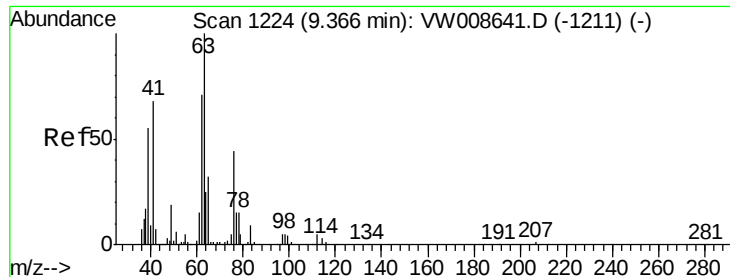
Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion:	130	Resp:	92762
Ion	Ratio	Lower	Upper
130	100		
95	88.4	0.0	193.4





#45

1,2-Dichloropropane

Concen: 19.384 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 63 Resp: 79924

Ion Ratio Lower Upper

63 100

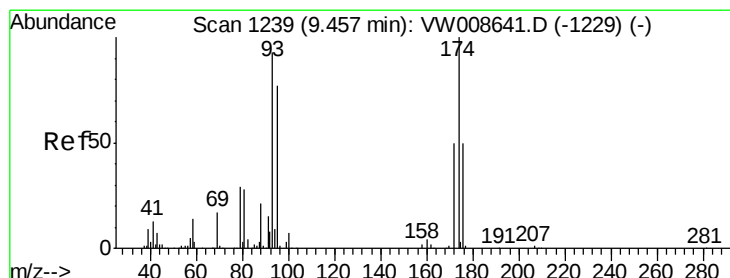
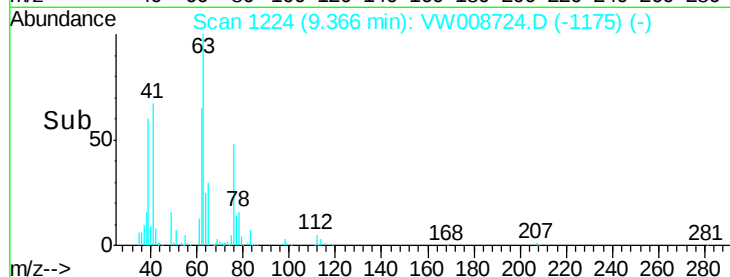
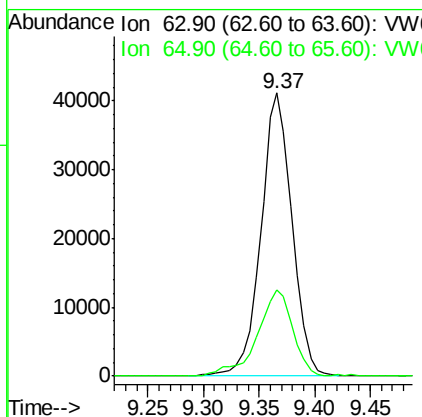
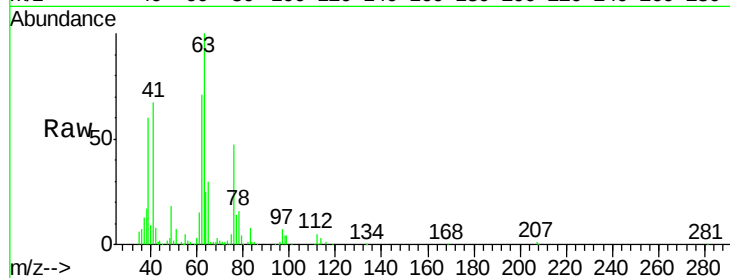
65 30.3 25.4 38.0

Manual Integrations

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2/19/2019 11:12:43 AM



#46

Dibromomethane

Concen: 19.516 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

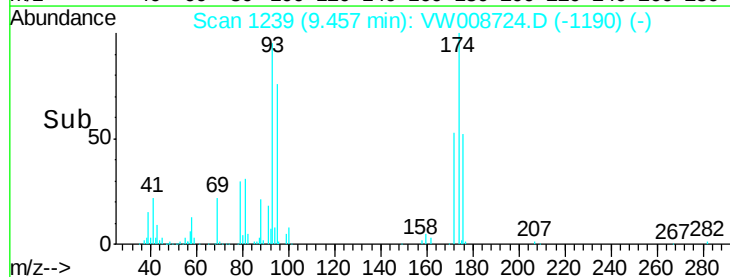
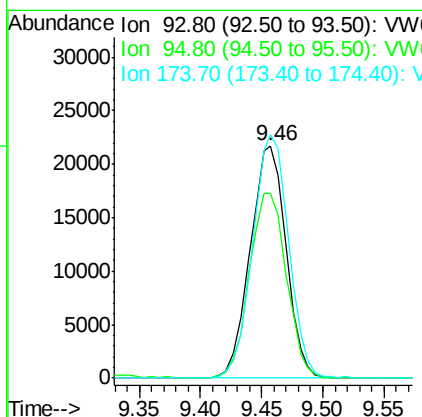
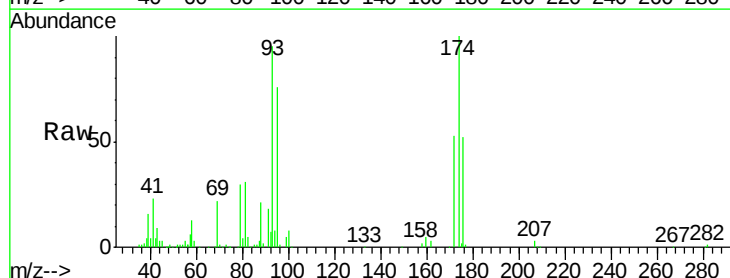
Tgt Ion: 93 Resp: 44328

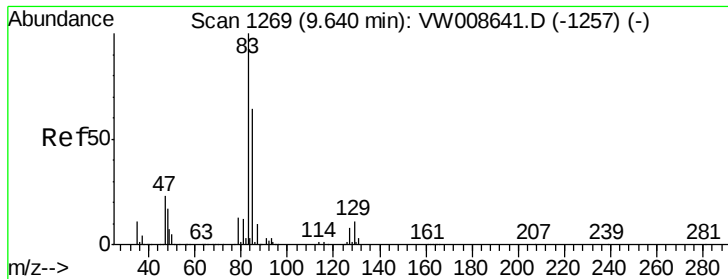
Ion Ratio Lower Upper

93 100

95 82.3 65.8 98.8

174 105.6 82.5 123.7





#47

Bromodichloromethane

Concen: 19.432 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

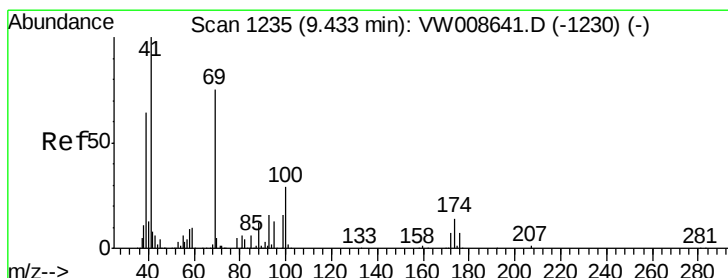
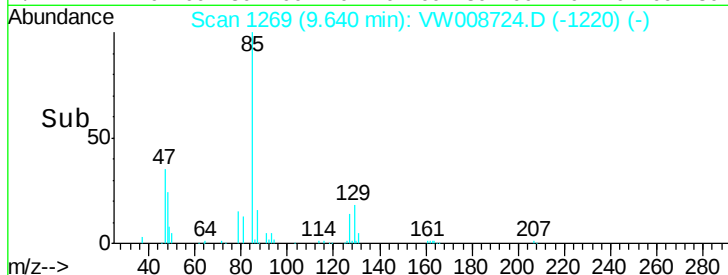
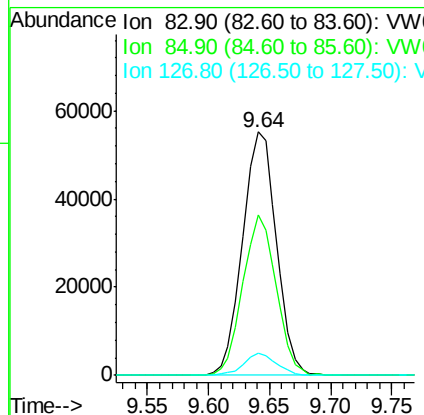
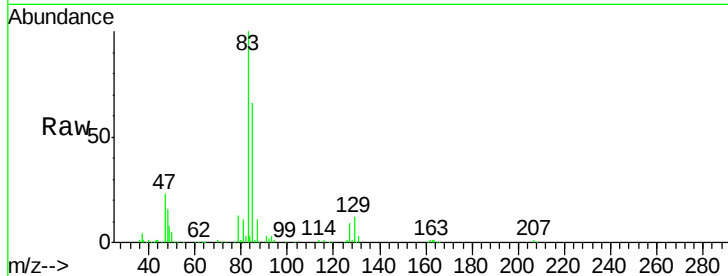
ClientSampleId :

VW0218SBS01

Tot Ion:	83	Resp:	106071
Ion Ratio	Lower	Upper	
83	100		
85	65.7	51.2	76.8
127	9.2	6.4	9.6

Manual Integrations
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2/19/2019 11:12:43 AM



#48

Methyl methacrylate

Concen: 18.286 ug/l

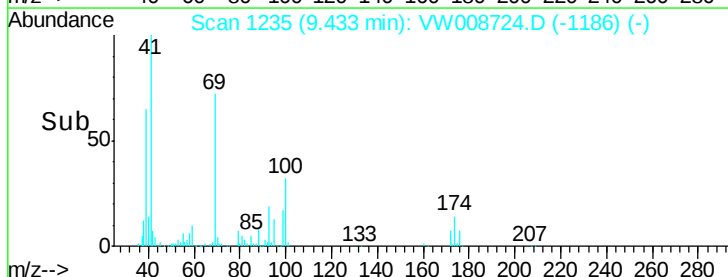
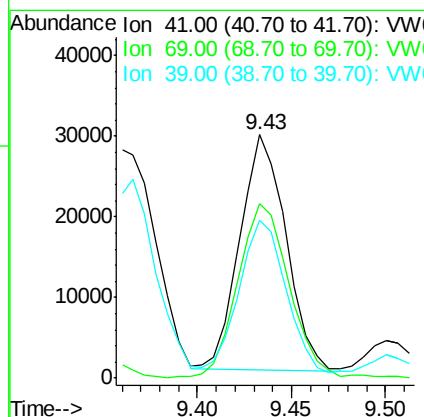
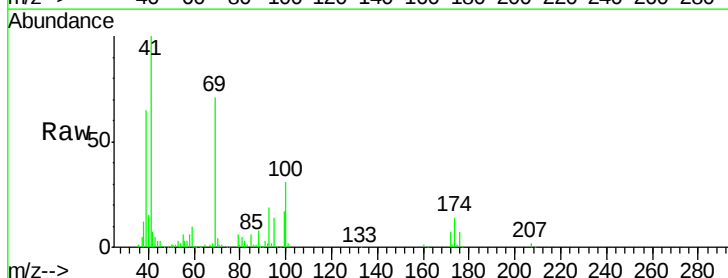
RT: 9.43 min Scan# 1235

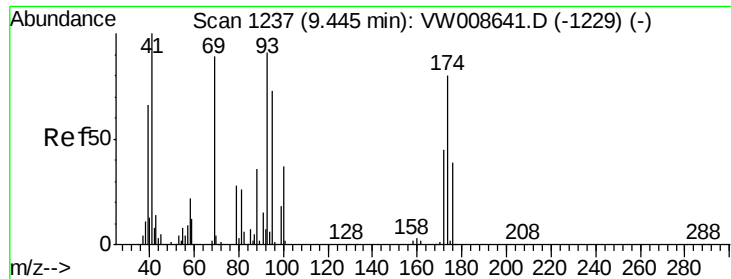
Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion:	41	Resp:	49726
Ion Ratio	Lower	Upper	
41	100		
69	82.8	64.1	96.1
39	69.6	52.3	78.5





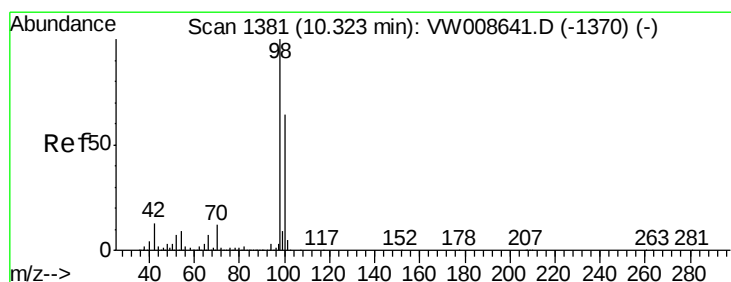
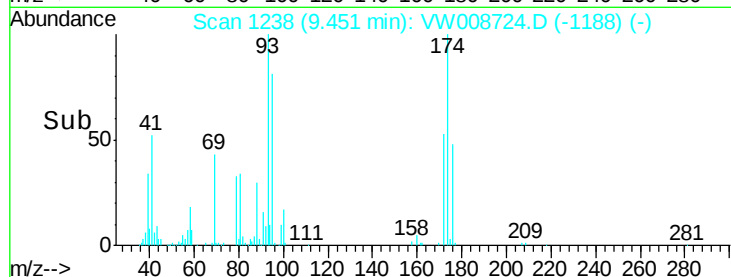
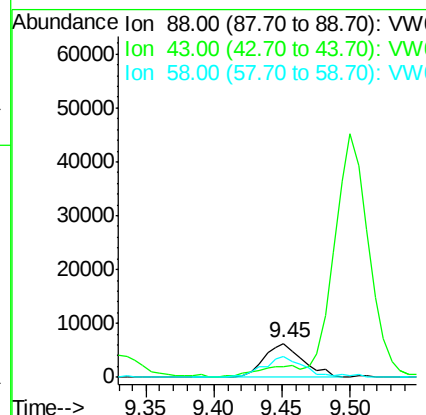
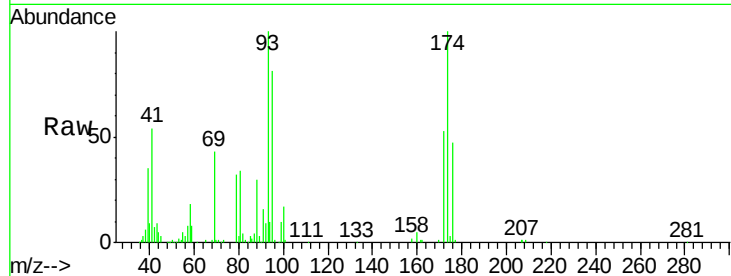
#49
1,4-Dioxane
Concen: 347.612 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.8	31.0	46.6
58	68.4	57.0	85.6

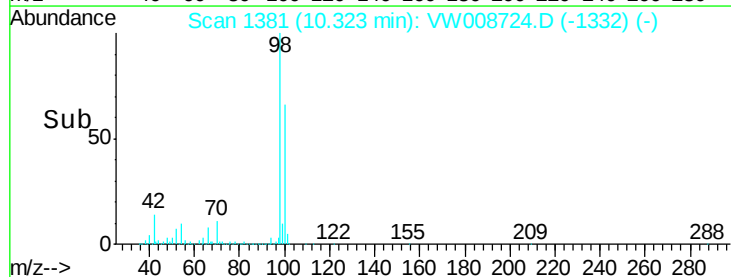
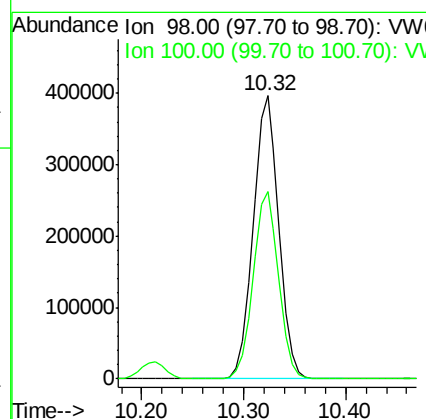
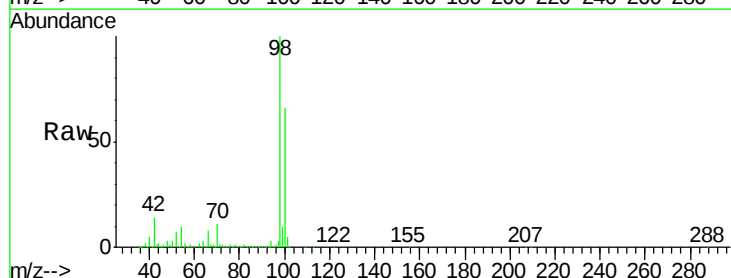
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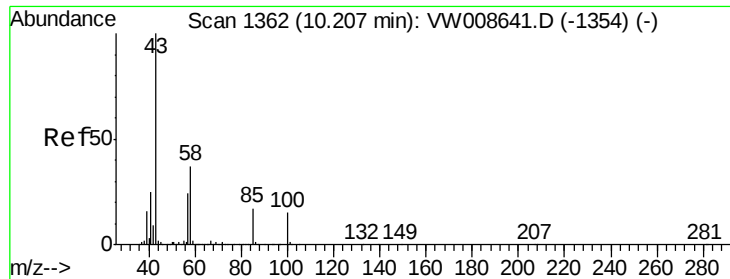
MMDadoda
2/19/2019 11:12:43 AM



#50
Toluene-d8
Concen: 47.423 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 90.868 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleID :

VW0218SBS01

Tot Ion: 43 Resp: 273900

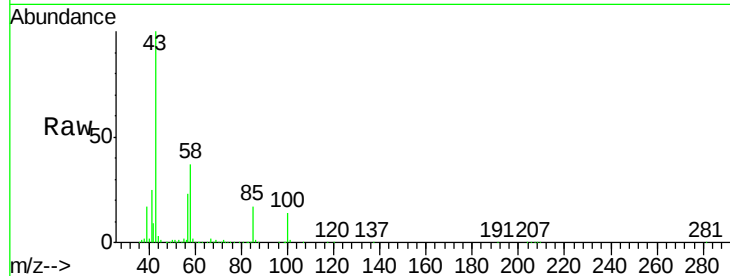
Ion Ratio Lower Upper

43 100

58 36.4 29.0 43.6

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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

150000

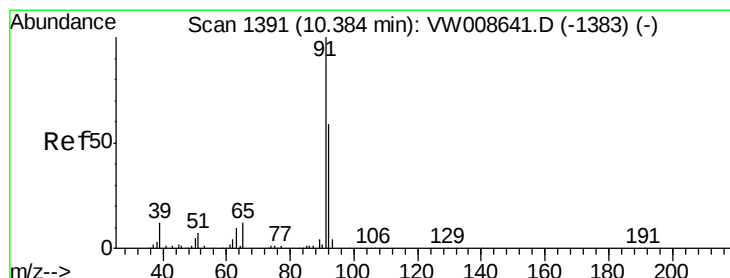
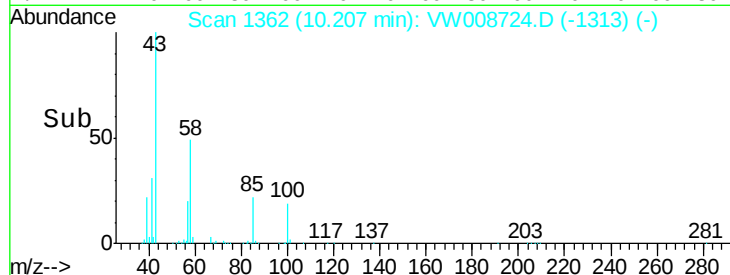
100000

50000

0

Time-->

10.10 10.20 10.30



#52

Toluene

Concen: 19.486 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW008724.D

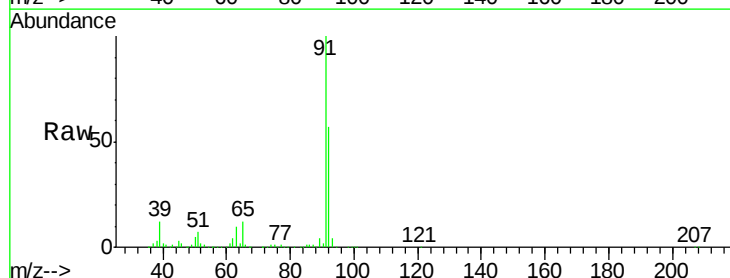
Acq: 18 Feb 2019 13:18

Tgt Ion: 92 Resp: 209444

Ion Ratio Lower Upper

92 100

91 173.8 135.8 203.6



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

250000

200000

150000

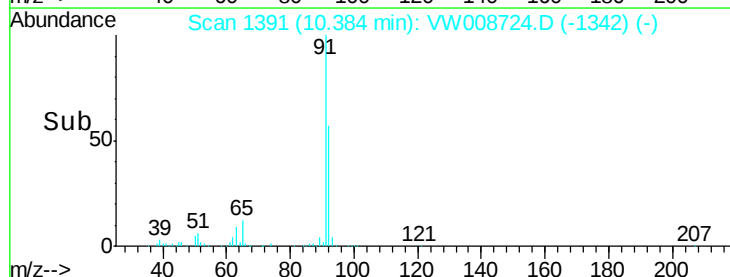
100000

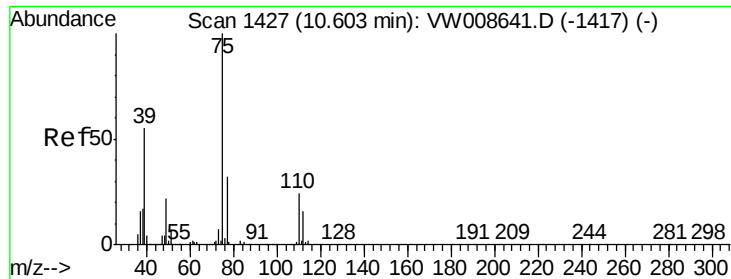
50000

0

Time-->

10.30 10.40 10.50





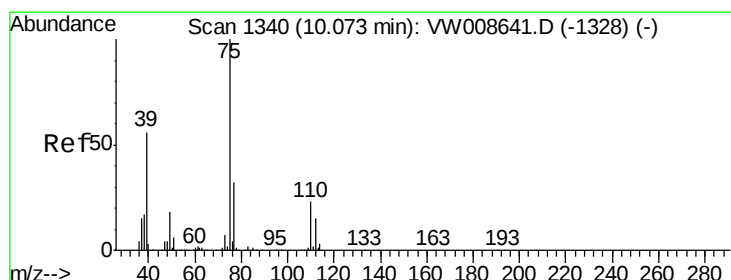
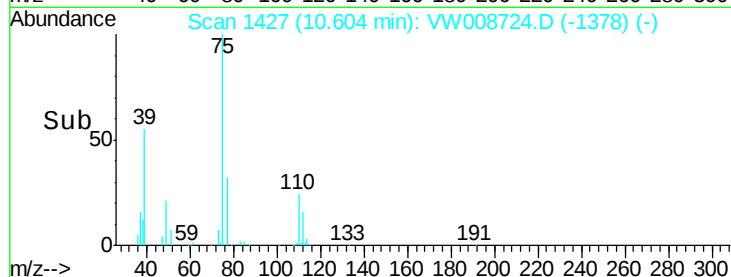
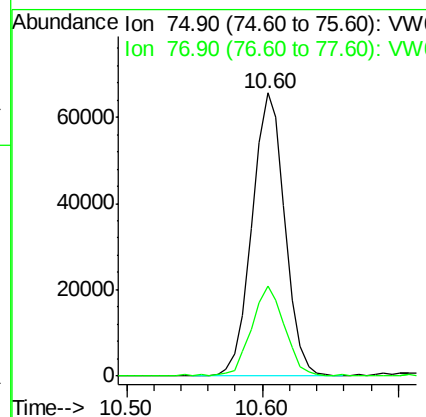
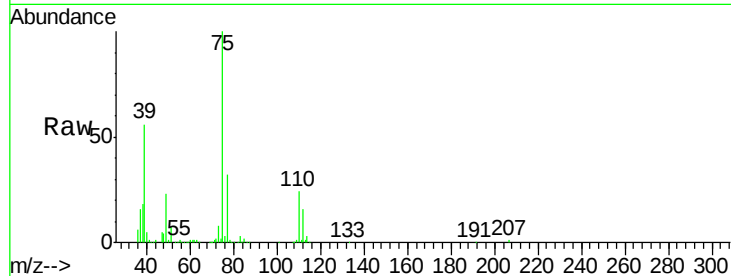
#53
t-1,3-Dichloropropene
Concen: 19.317 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampled :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5

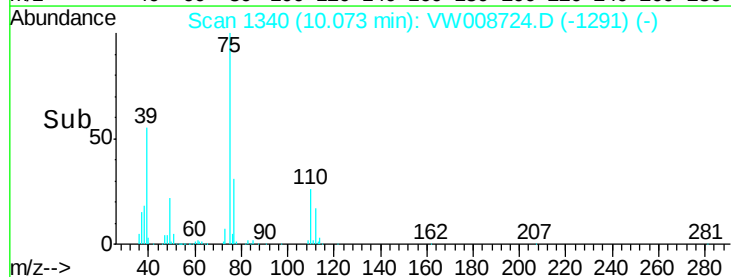
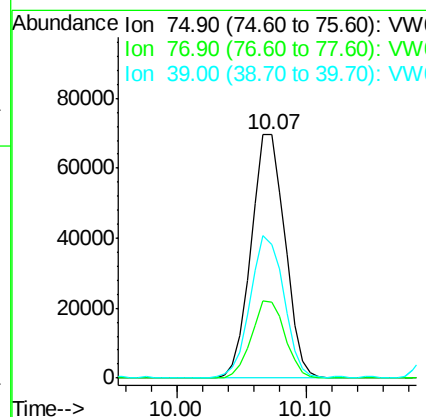
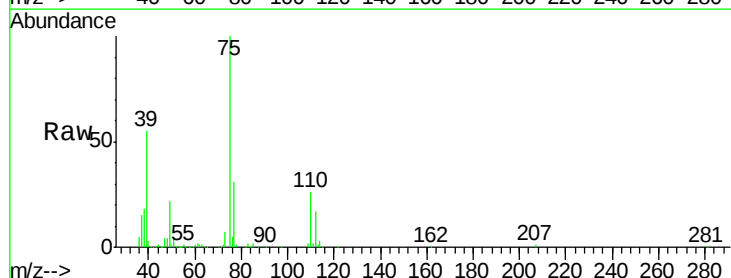
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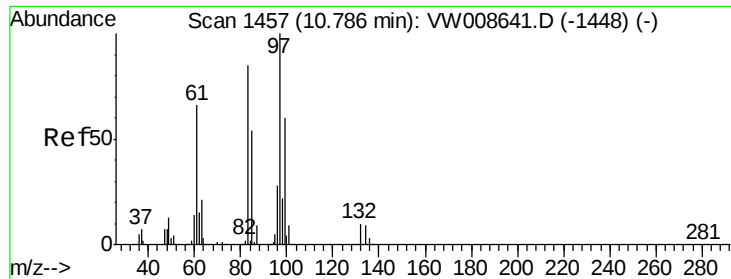
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#54
cis-1,3-Dichloropropene
Concen: 19.447 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	54.8	44.5	66.7





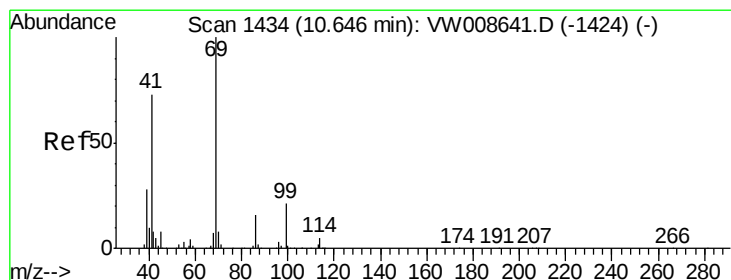
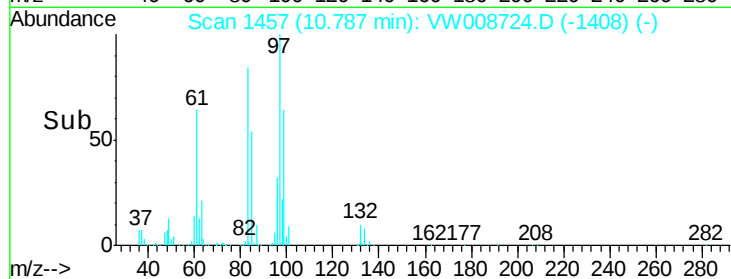
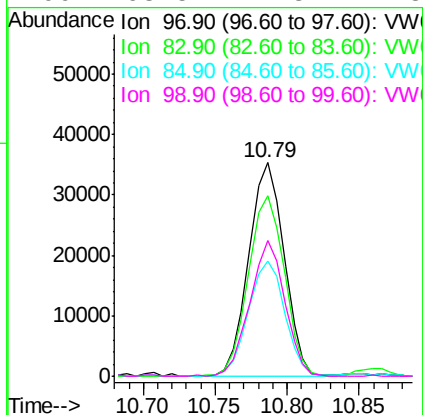
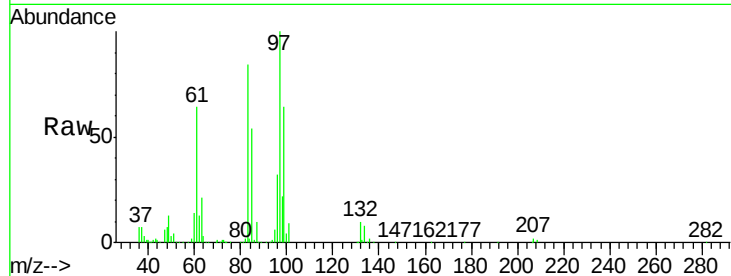
#55
 1,1,2-Trichloroethane
 Concen: 19.326 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0218SBS01

Tot Ion:	97	Resp:	60230
Ion	Ratio	Lower	Upper
97	100		
83	84.4	68.4	102.6
85	53.9	43.1	64.7
99	63.5	47.8	71.8

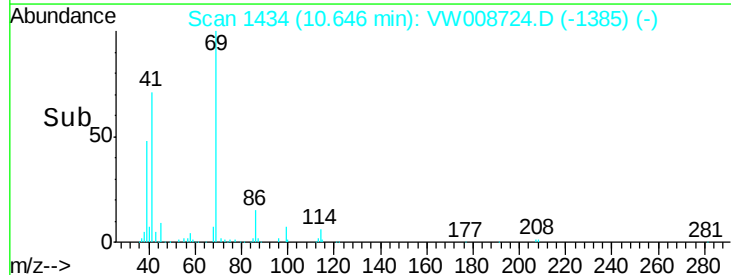
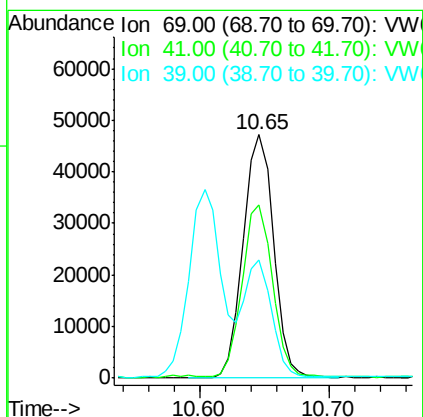
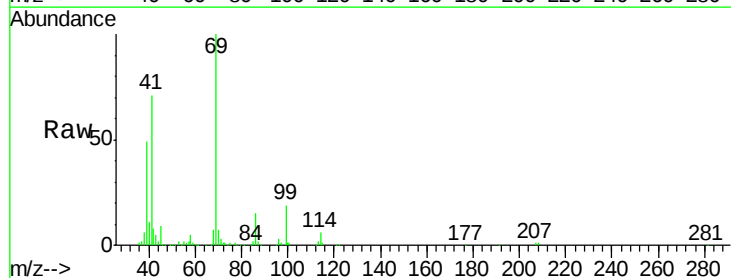
Manual Integrations
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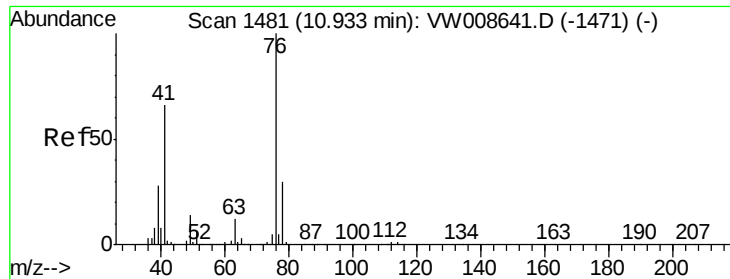
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 2/19/2019 11:12:43 AM



#56
 Ethyl methacrylate
 Concen: 18.689 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Tgt Ion:	69	Resp:	77340
Ion	Ratio	Lower	Upper
69	100		
41	70.8	59.0	88.4
39	41.9	34.4	51.6





#57

1,3-Dichloropropane

Concen: 19.214 ug/l

RT: 10.93 min Scan# 1480

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 76 Resp: 106244

Ion Ratio Lower Upper

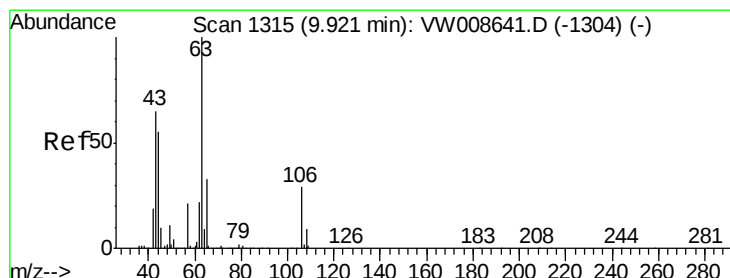
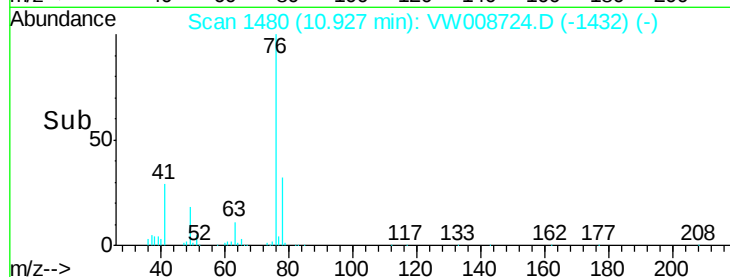
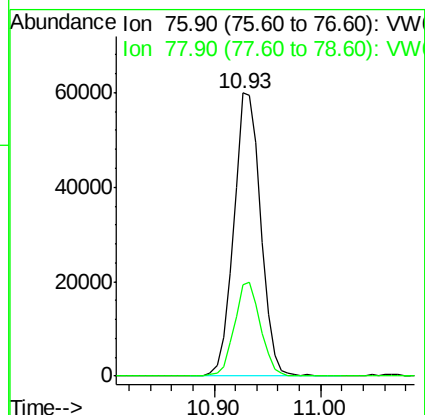
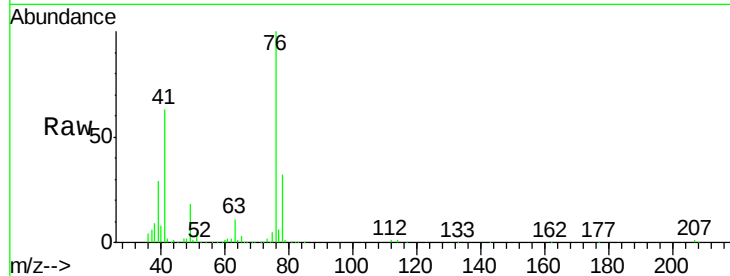
76 100

78 32.3 25.4 38.0

Manual Integrations
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MMDadoda

2/19/2019 11:12:43 AM



#58

2-Chloroethyl Vinyl ether

Concen: 103.430 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW008724.D

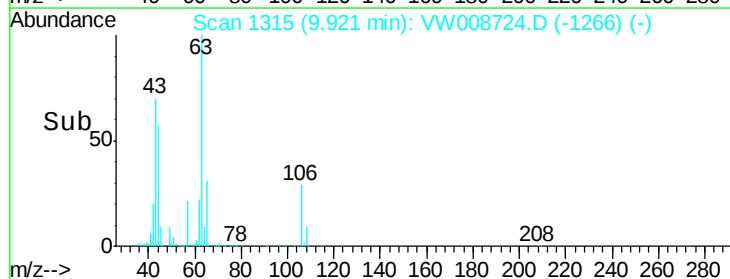
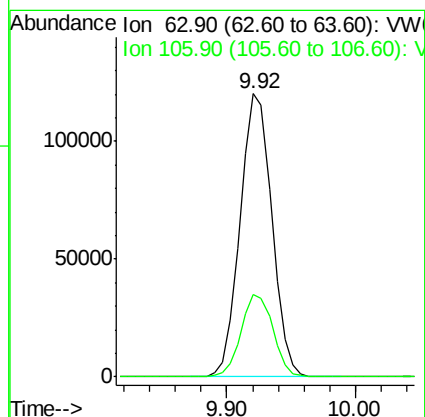
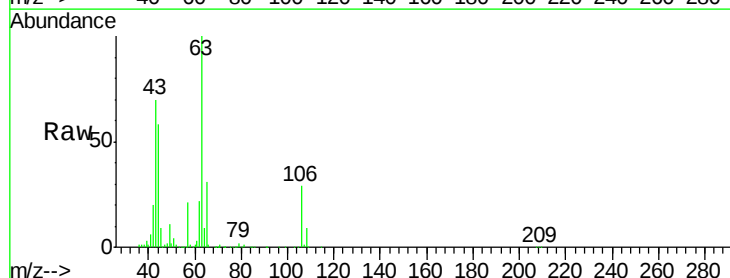
Acq: 18 Feb 2019 13:18

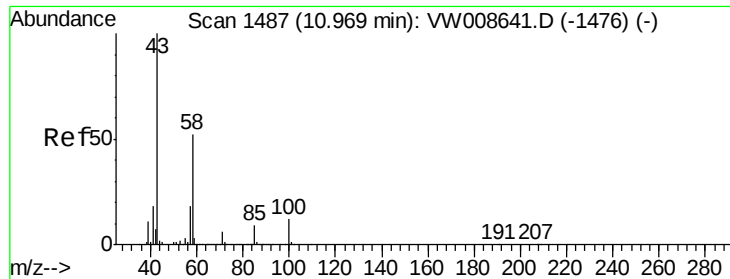
Tgt Ion: 63 Resp: 205329

Ion Ratio Lower Upper

63 100

106 29.1 23.4 35.2





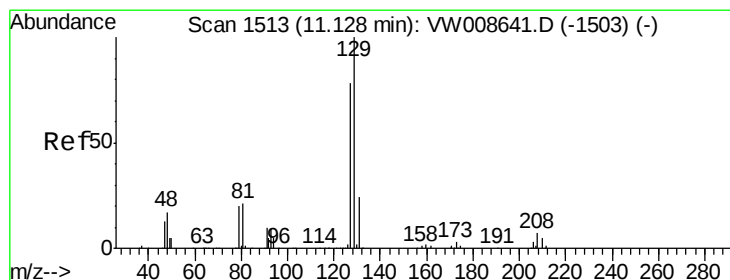
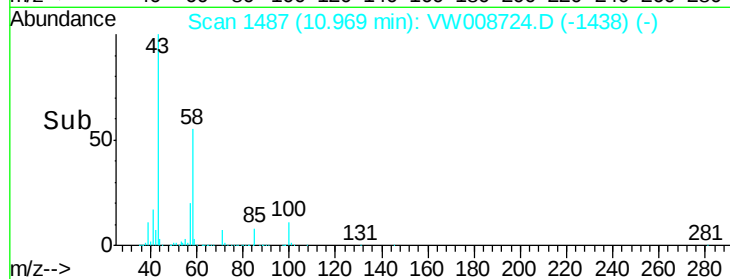
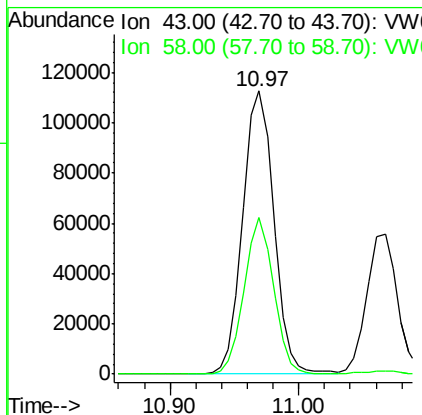
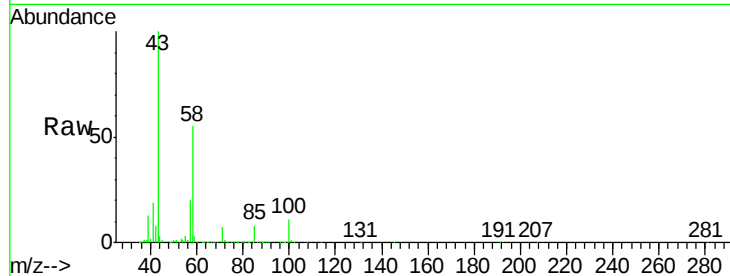
#59
2-Hexanone
Concen: 88.826 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion: 43 Resp: 188089
Ion Ratio Lower Upper
43 100
58 52.5 25.6 76.6

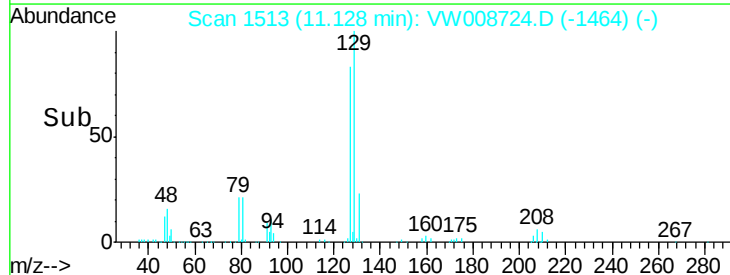
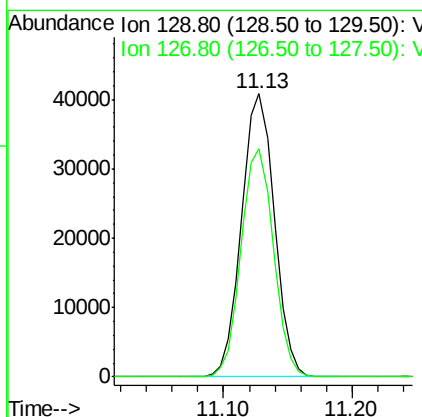
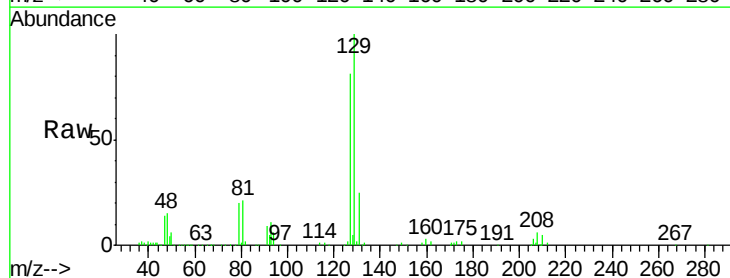
Manual Integrations
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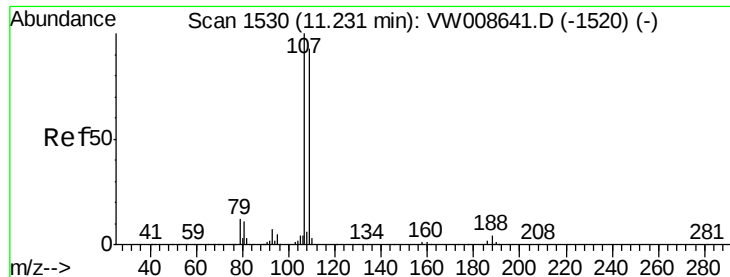
MMDadoda
2/19/2019 11:12:43 AM



#60
Dibromochloromethane
Concen: 19.307 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion: 129 Resp: 71997
Ion Ratio Lower Upper
129 100
127 79.4 38.5 115.3





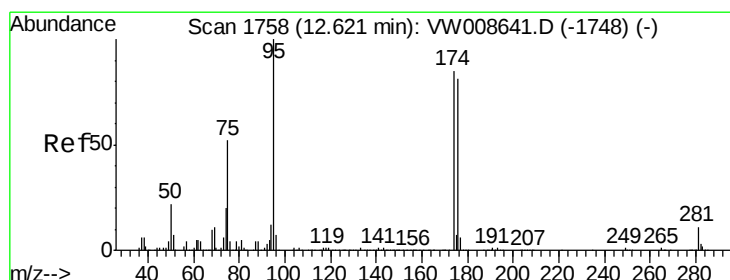
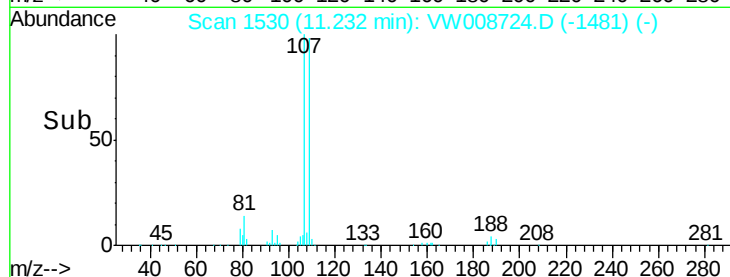
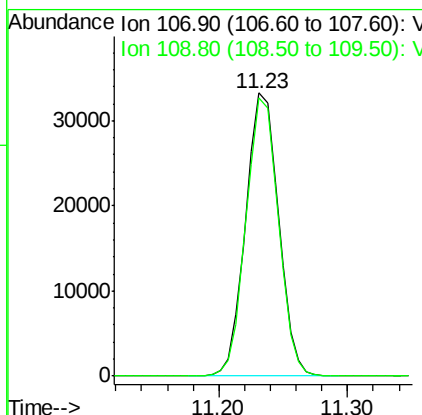
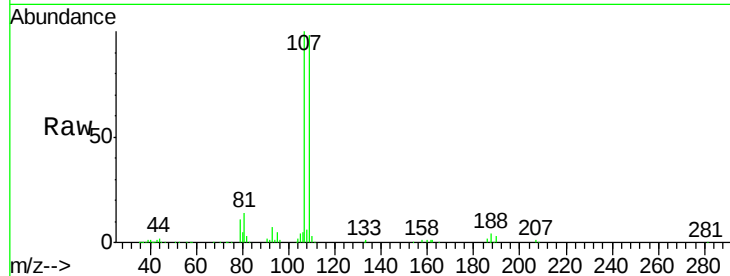
#61
 1,2-Dibromoethane
 Concen: 19.172 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0218SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.7	74.8	112.2

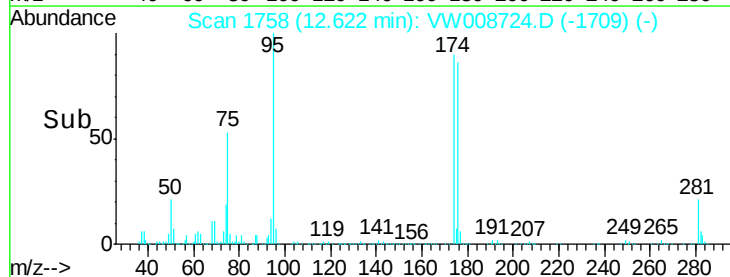
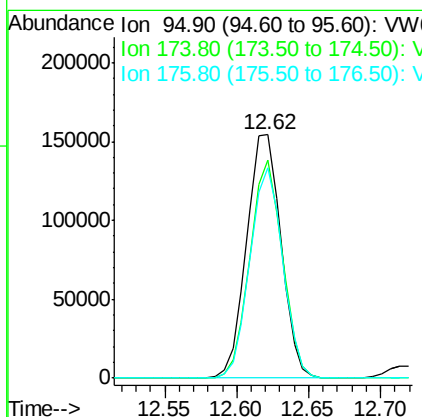
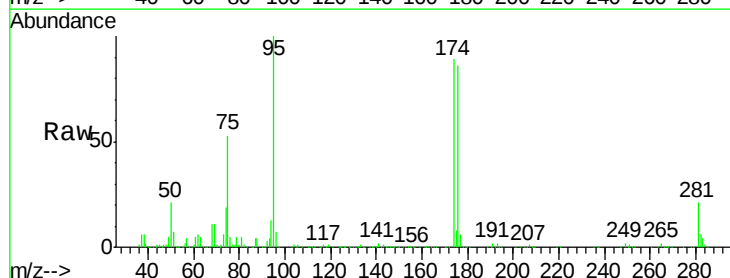
Manual Integrations
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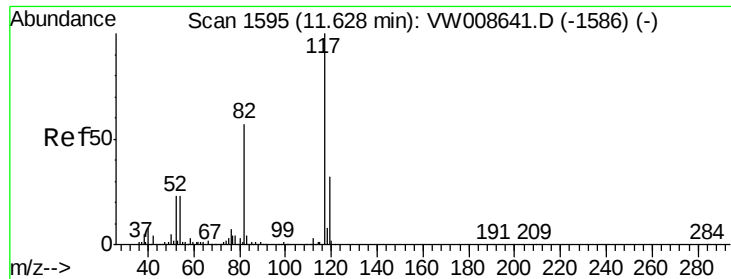
MMDadoda
 2/19/2019 11:12:43 AM



#62
 4-Bromofluorobenzene
 Concen: 46.470 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	163.2
176	82.3	0.0	158.0





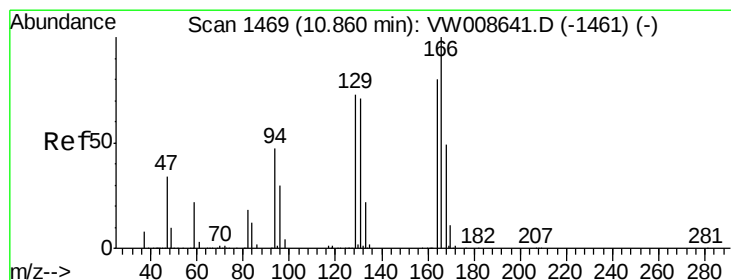
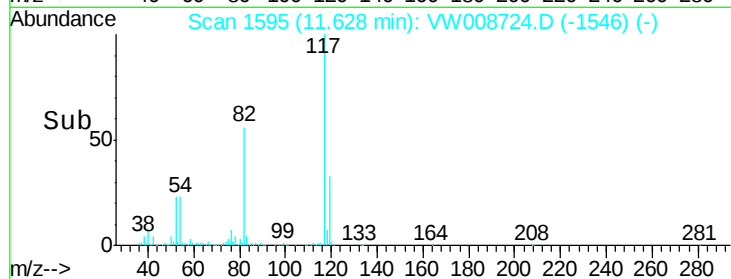
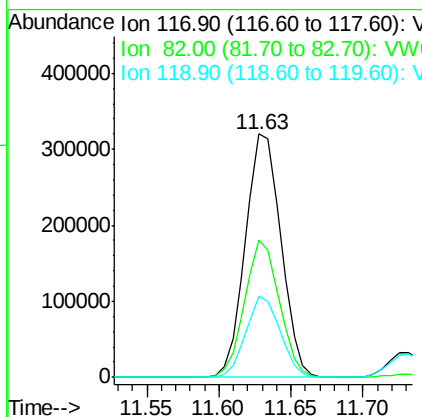
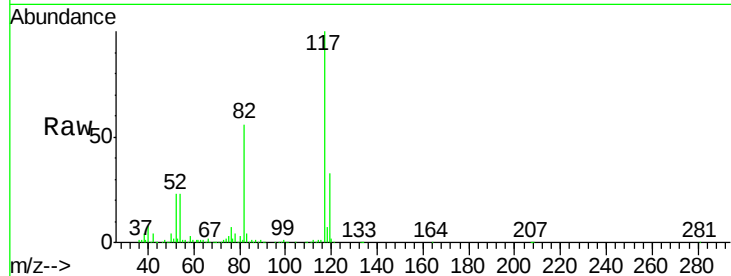
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
82	56.3	45.6	68.4	
119	33.2	25.7	38.5	

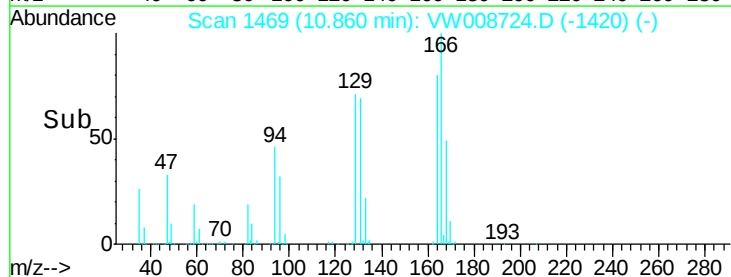
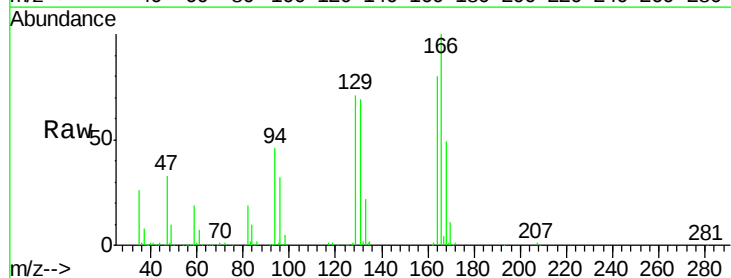
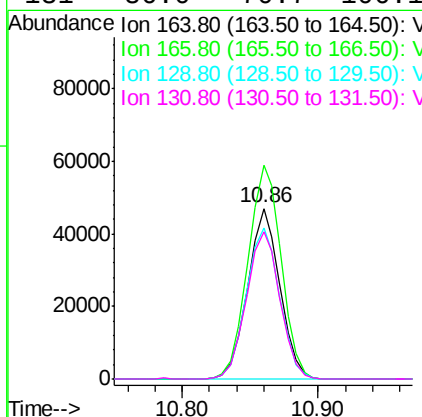
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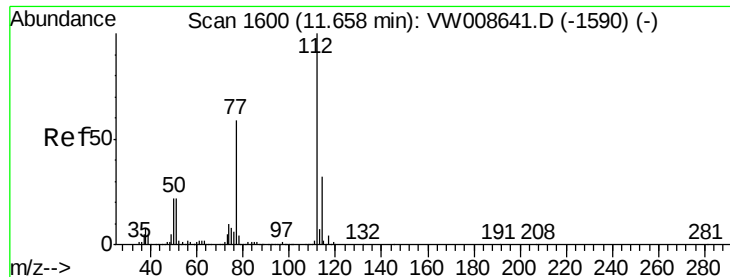
MMDadoda
2/19/2019 11:12:43 AM



#64
Tetrachloroethene
Concen: 19.057 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	125.1	100.2	150.2	
129	88.7	73.6	110.4	
131	86.0	70.7	106.1	





#65

Chlorobenzene

Concen: 19.405 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion:112 Resp: 229208

Ion Ratio Lower Upper

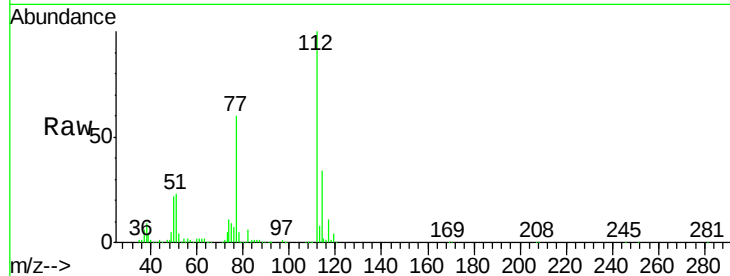
112 100

114 33.7 25.7 38.5

Manual Integrations
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MMDadoda

2/19/2019 11:12:43 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.66

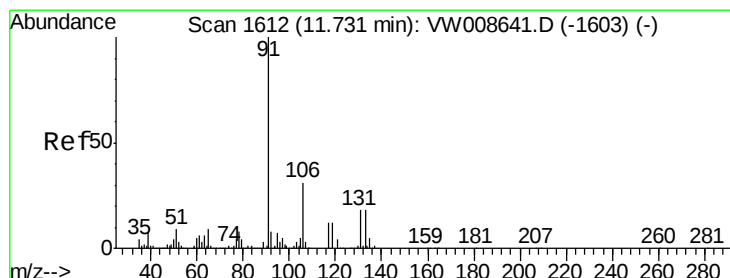
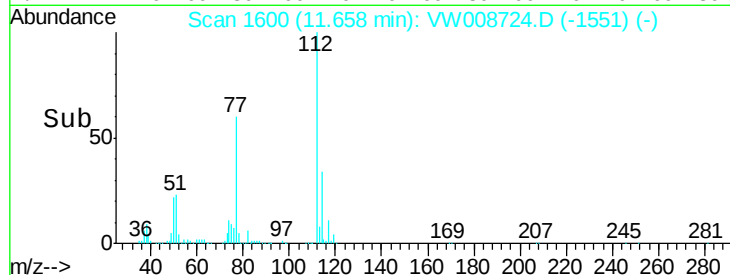
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.363 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

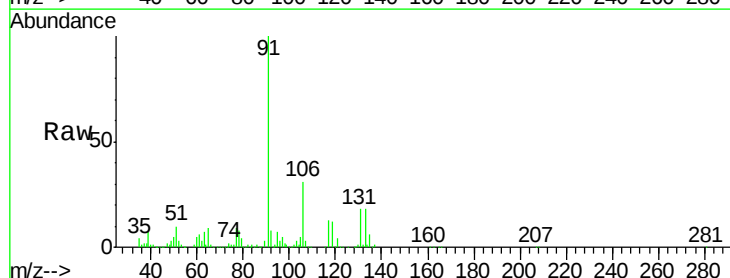
Tgt Ion:131 Resp: 81019

Ion Ratio Lower Upper

131 100

133 94.8 47.8 143.4

119 63.3 31.6 94.8



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

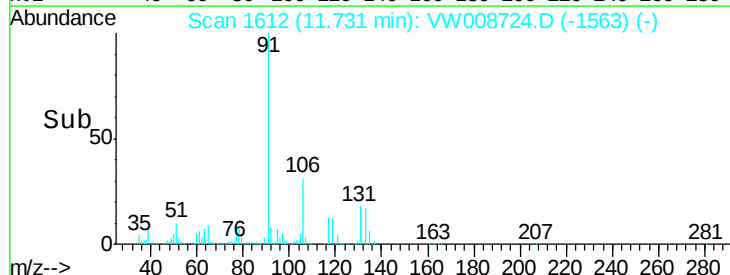
11.73

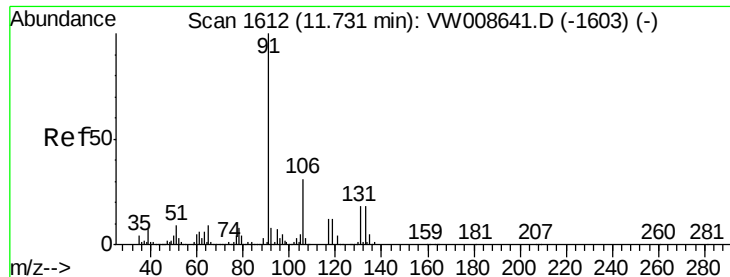
100000

50000

0

Time-->





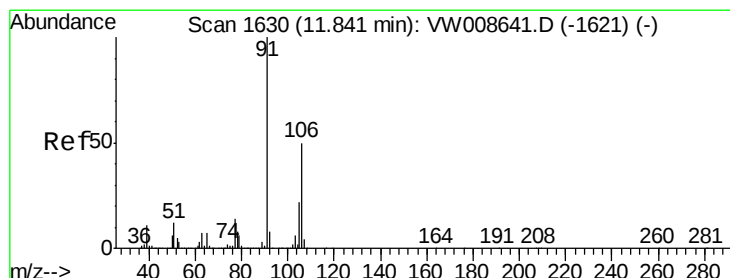
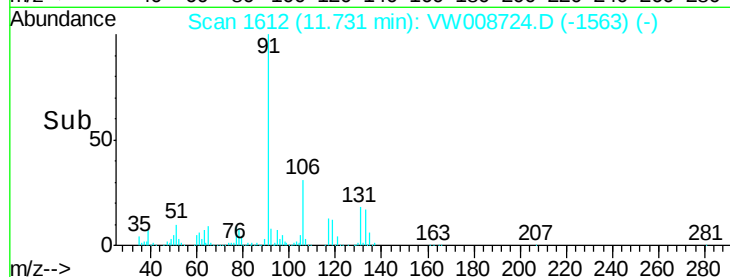
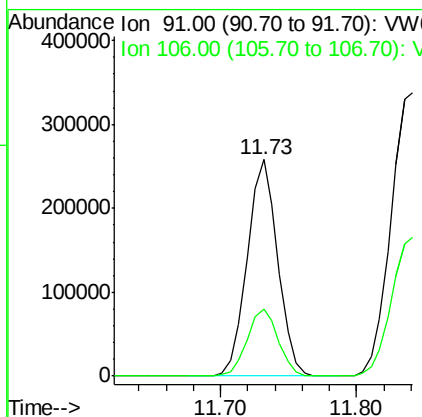
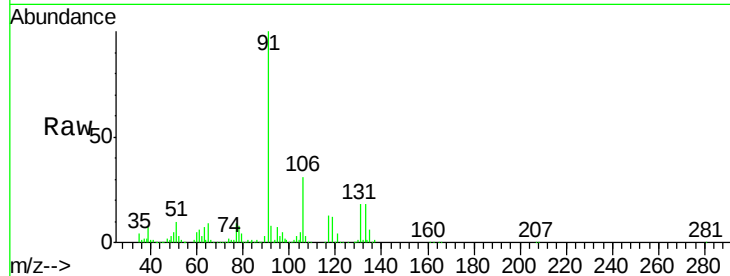
#67
Ethyl Benzene
Concen: 19.279 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion: 91 Resp: 405627
Ion Ratio Lower Upper
91 100
106 31.0 24.5 36.7

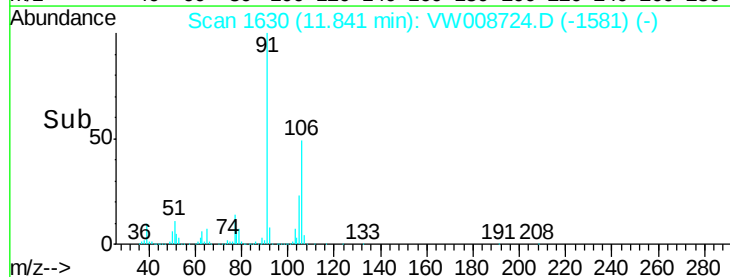
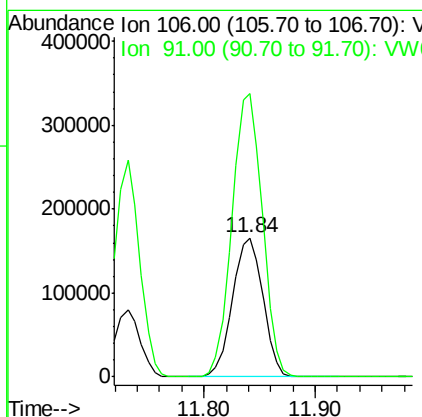
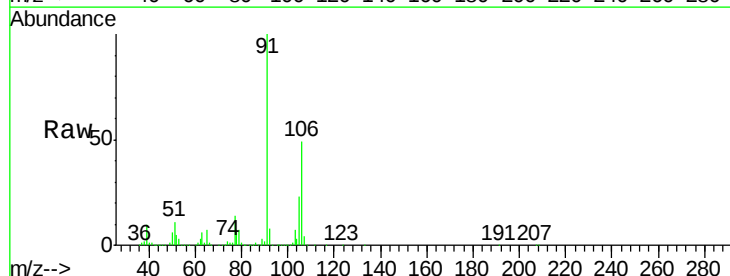
Manual Integrations
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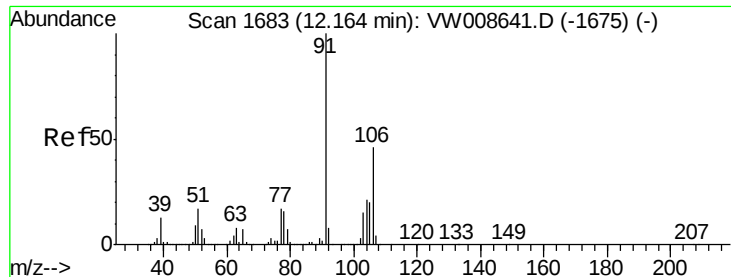
MMDadoda
2/19/2019 11:12:43 AM



#68
m/p-Xylenes
Concen: 38.198 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion: 106 Resp: 312705
Ion Ratio Lower Upper
106 100
91 203.8 161.0 241.4





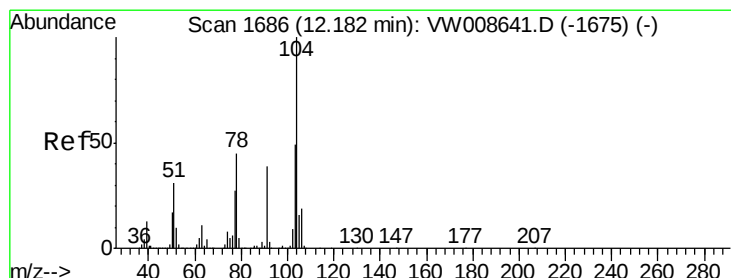
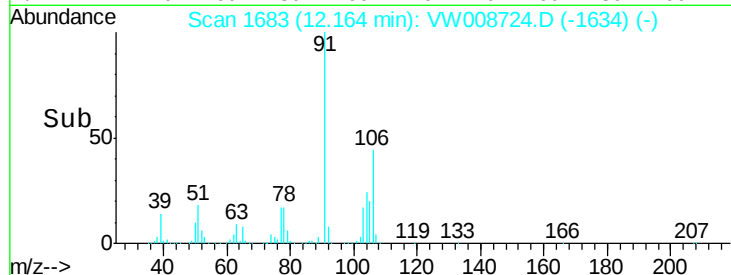
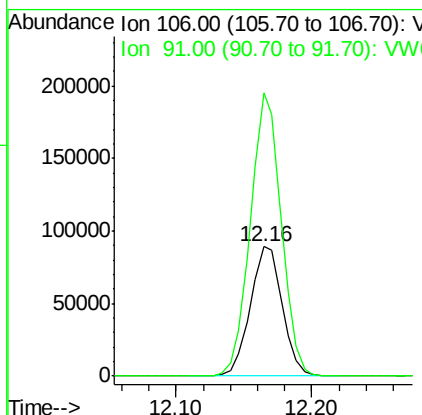
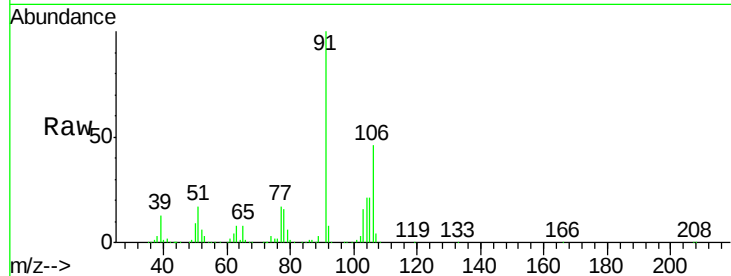
#69
o-Xylene
Concen: 19.002 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion:106 Resp: 147042
Ion Ratio Lower Upper
106 100
91 212.0 106.7 320.1

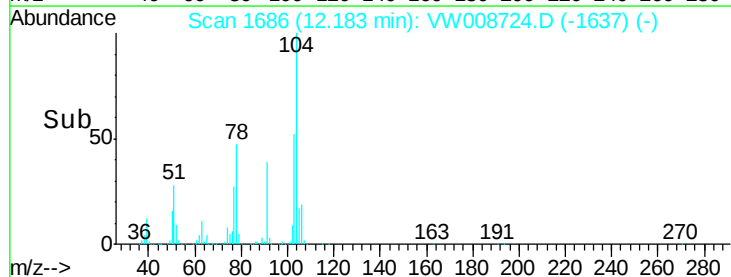
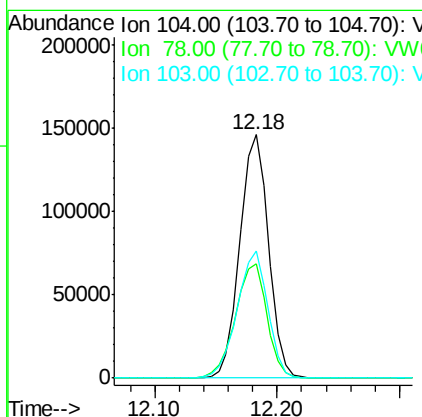
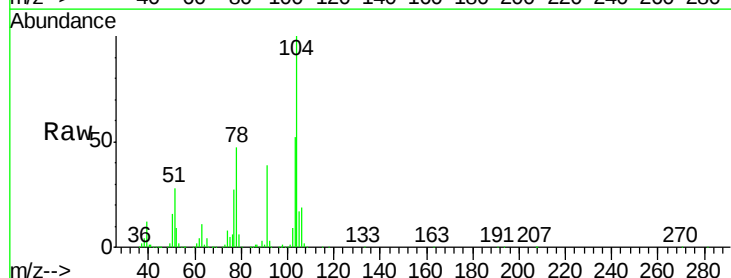
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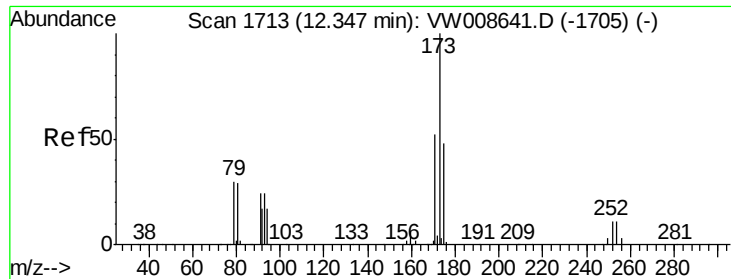
MMDadoda
2/19/2019 11:12:43 AM



#70
Styrene
Concen: 18.838 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion:104 Resp: 238098
Ion Ratio Lower Upper
104 100
78 51.5 41.5 62.3
103 55.8 43.5 65.3





#71

Bromoform

Concen: 19.077 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

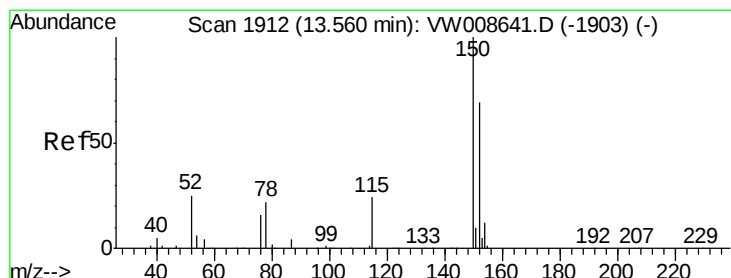
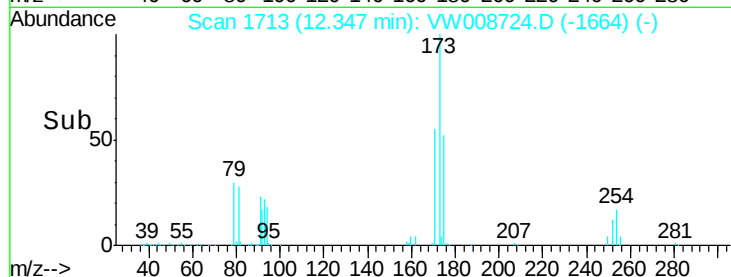
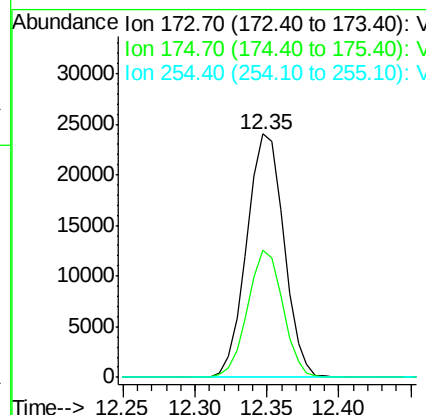
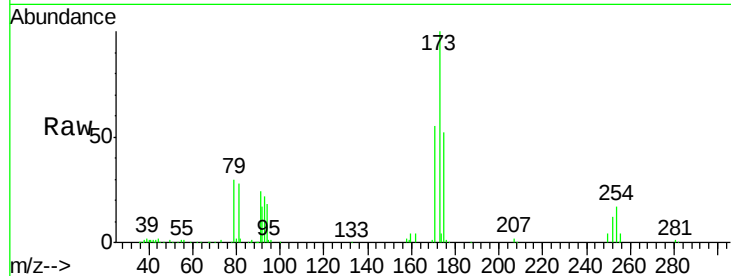
ClientSampleId :

VW0218SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.9	74.7
254	0.1	0.1	0.1

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

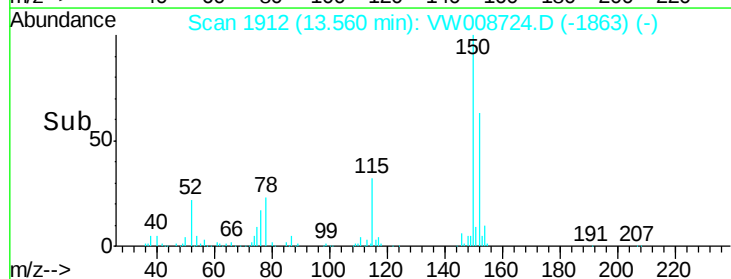
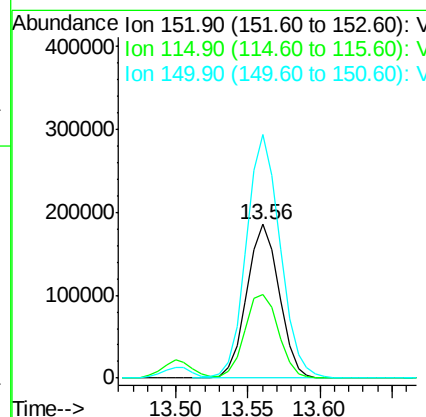
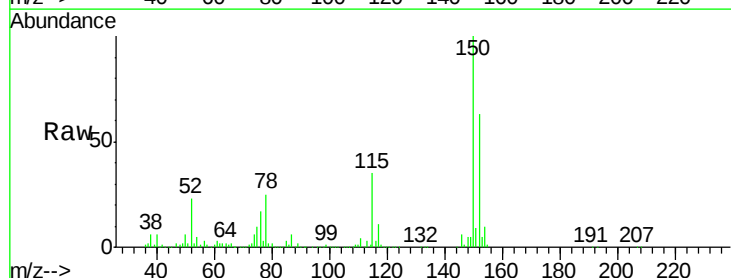
RT: 13.56 min Scan# 1912

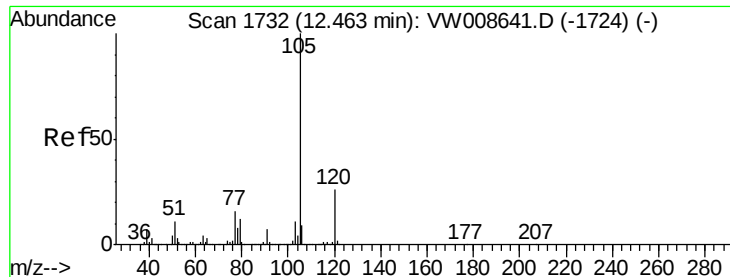
Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	29.3	87.8
150	164.7	0.0	352.8





#73

Isopropylbenzene

Concen: 19.210 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 105 Resp: 412670

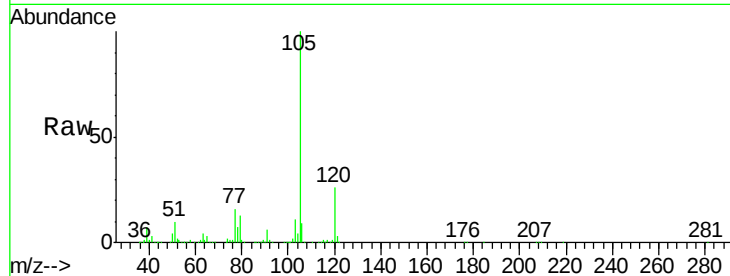
Ion Ratio Lower Upper

105 100

120 26.2 13.2 39.6

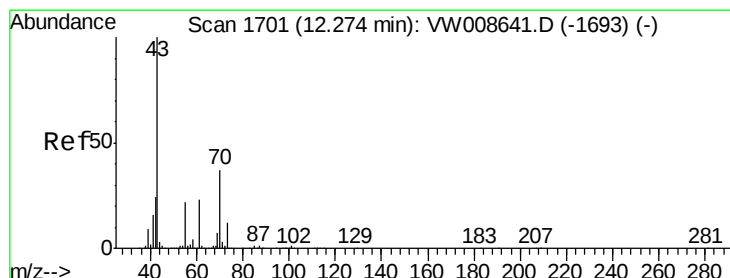
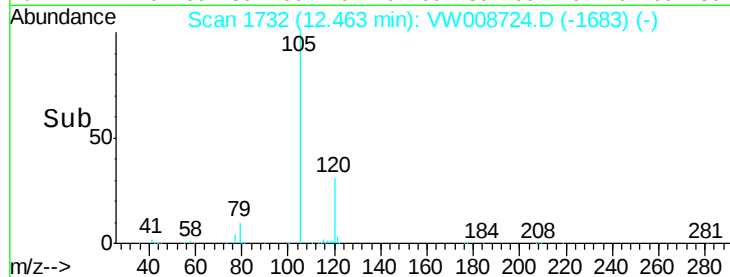
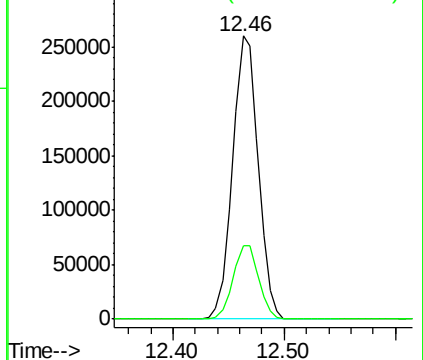
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.092 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion: 43 Resp: 99291

Ion Ratio Lower Upper

43 100

70 40.1 30.5 45.7

55 24.3 17.6 26.4

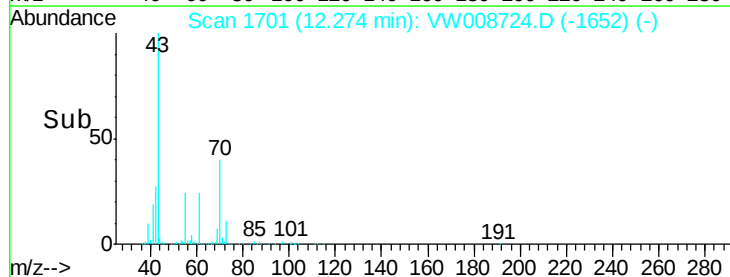
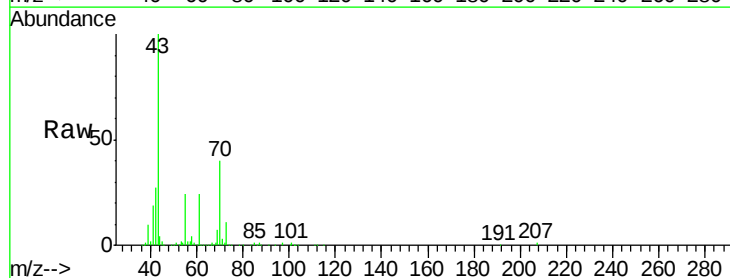
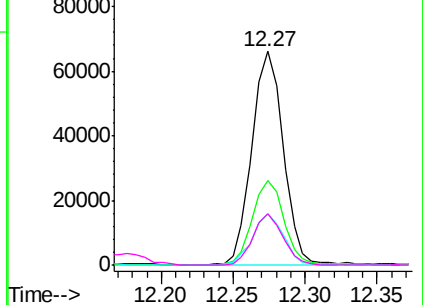
61 23.3 17.9 26.9

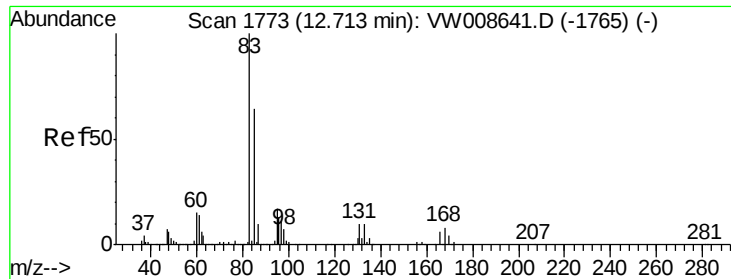
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 18.573 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 83 Resp: 69418

Ion Ratio Lower Upper

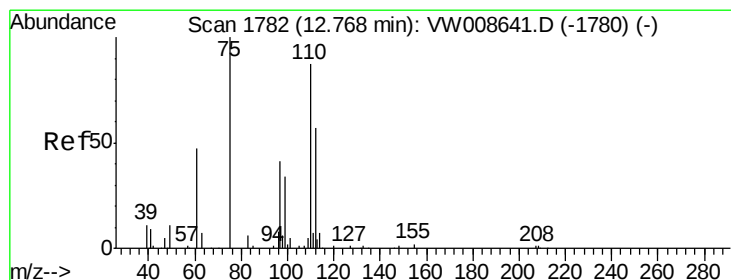
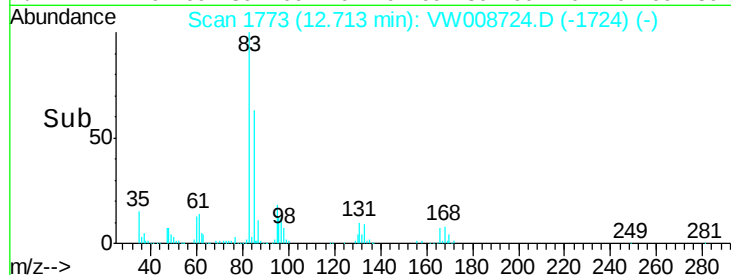
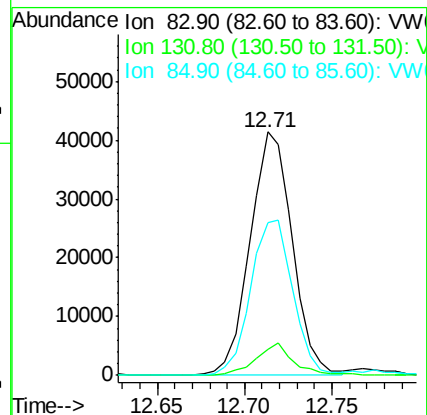
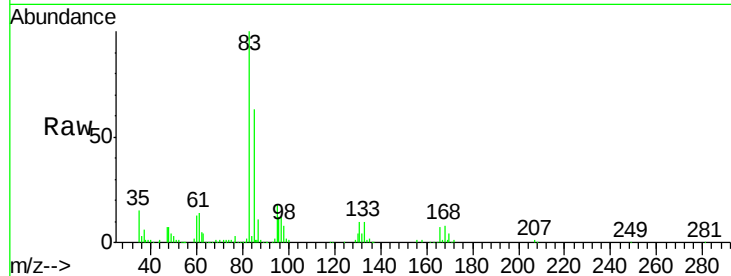
83 100

131 11.8 5.5 16.7

85 64.0 31.8 95.3

Manual Integrations
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2/19/2019 11:12:43 AM



#76

1,2,3-Trichloropropane

Concen: 17.150 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW008724.D

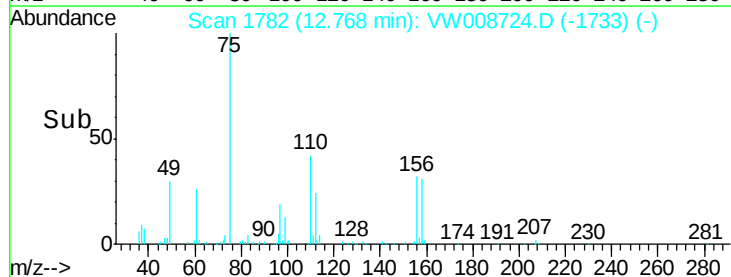
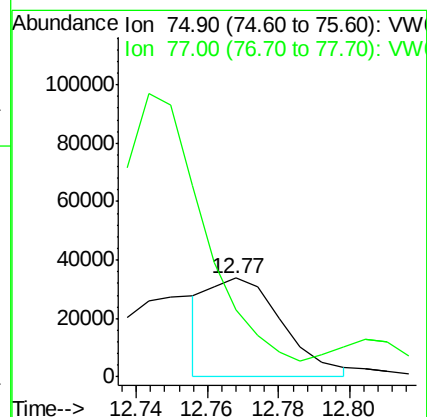
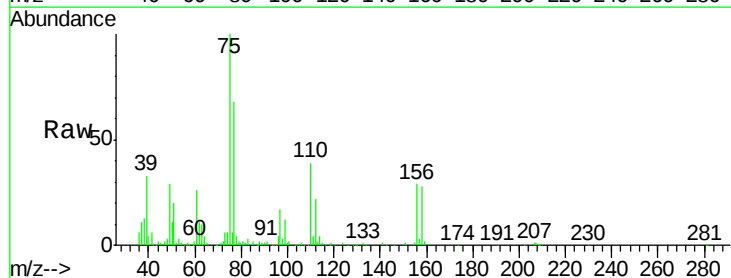
Acq: 18 Feb 2019 13:18

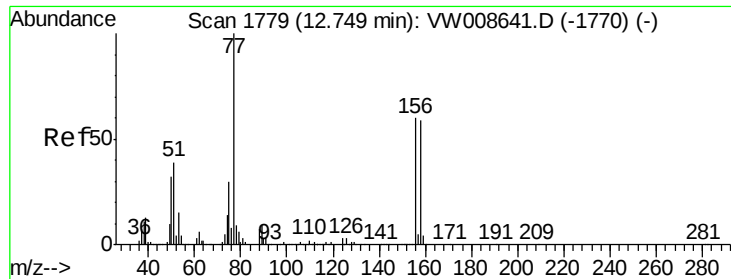
Tgt Ion: 75 Resp: 48839

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 19.352 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

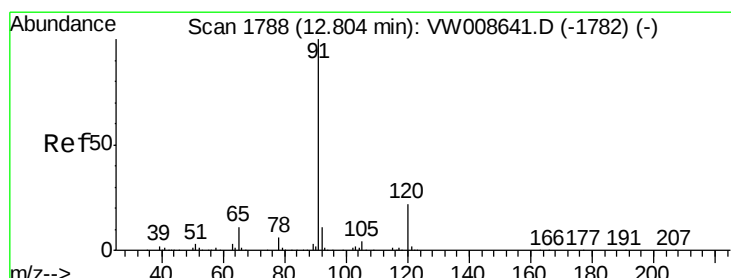
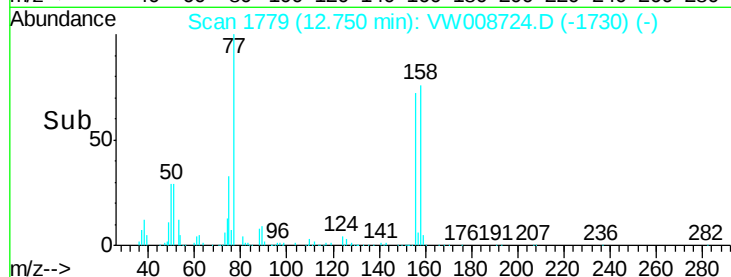
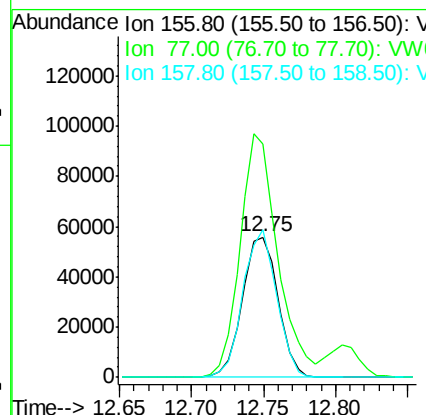
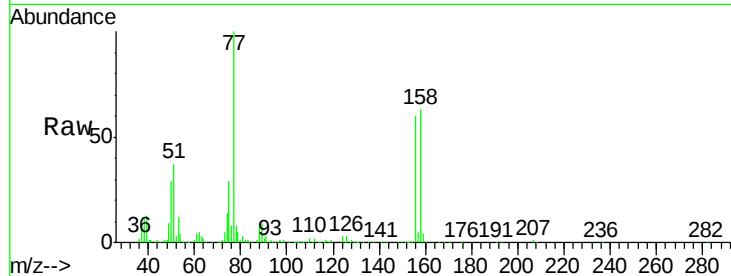
ClientSampleId :

VW0218SBS01

Tot Ion:	156	Resp:	95562
Ion Ratio	Lower	Upper	
156	100		
77	184.0	93.2	279.5
158	99.7	48.5	145.5

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#78

n-propylbenzene

Concen: 19.297 ug/l

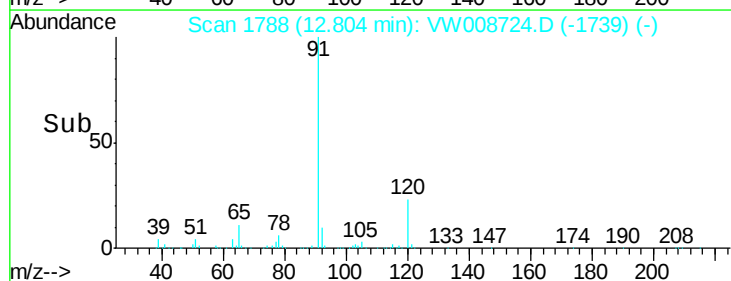
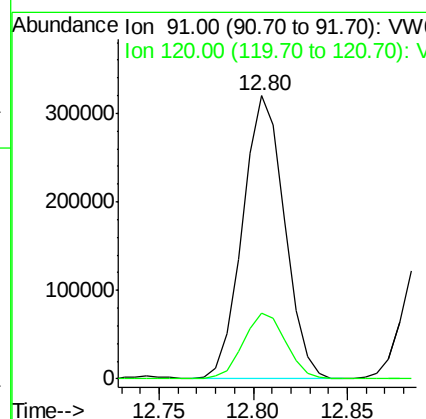
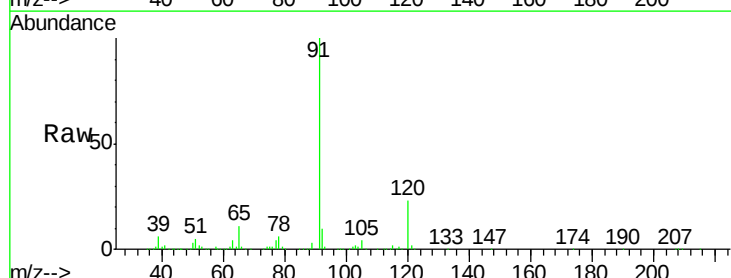
RT: 12.80 min Scan# 1788

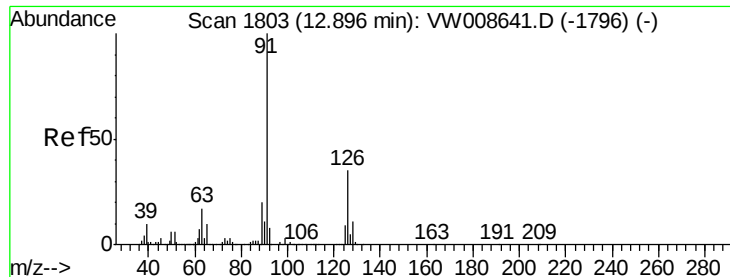
Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion:	91	Resp:	492535
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.4	34.2





#79

2-Chlorotoluene

Concen: 19.216 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion: 91 Resp: 277206

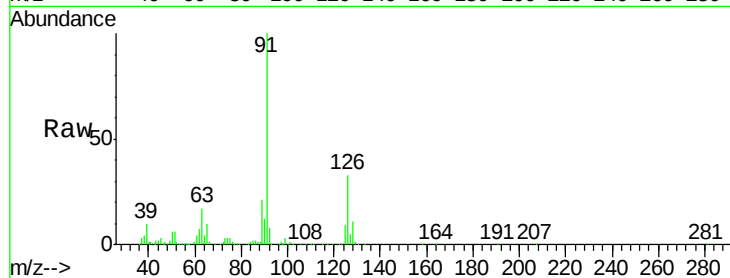
Ion Ratio Lower Upper

91 100

126 34.4 17.0 50.9

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

300000

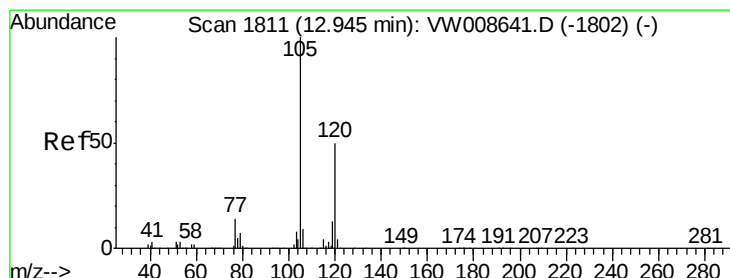
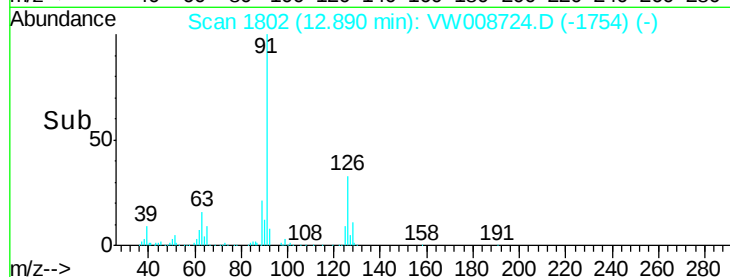
200000

100000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.037 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008724.D

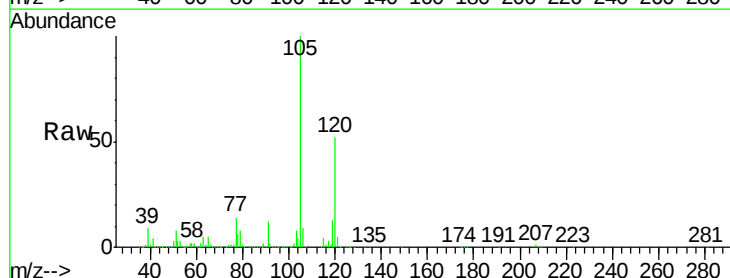
Acq: 18 Feb 2019 13:18

Tgt Ion: 105 Resp: 339687

Ion Ratio Lower Upper

105 100

120 50.7 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

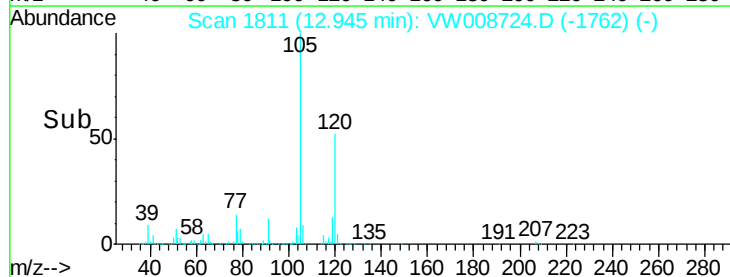
100000

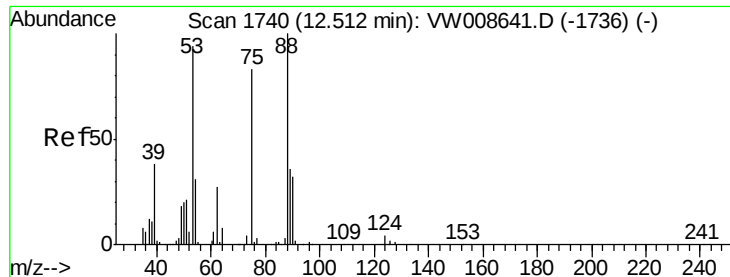
50000

0

12.90 13.00

Time-->





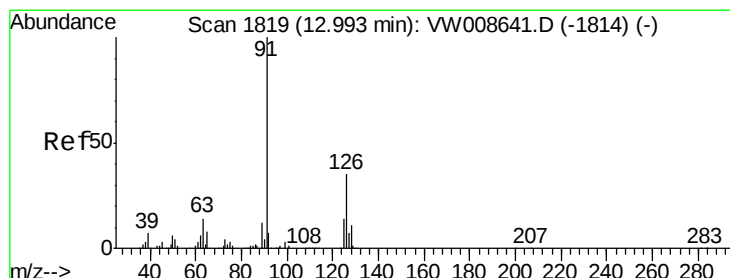
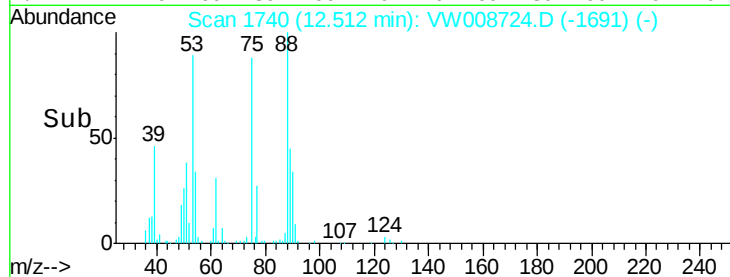
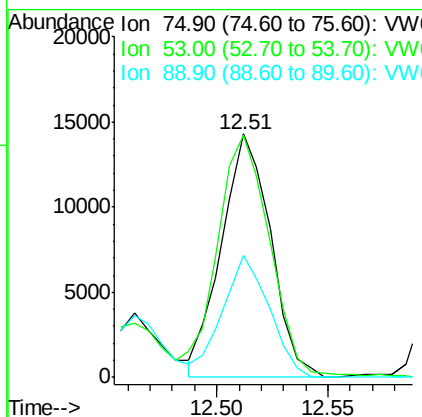
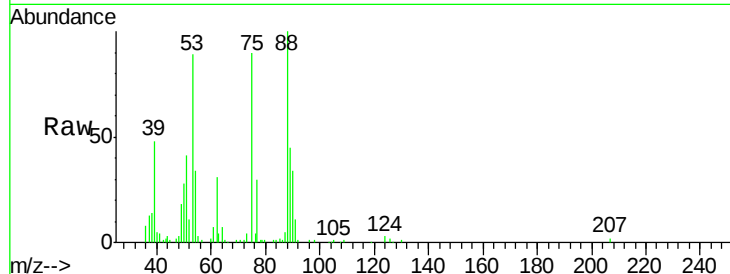
#81
trans-1,4-Dichloro-2-butene
Concen: 18.697 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	107.0	87.4	131.0
89	47.4	37.0	55.4

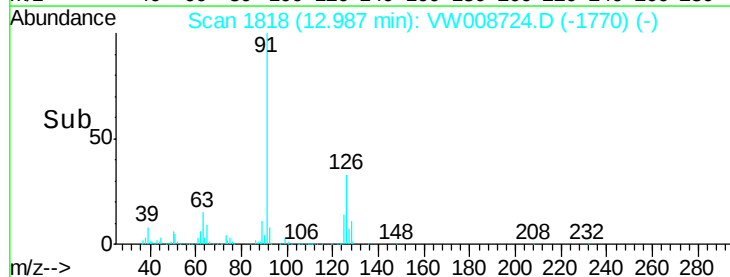
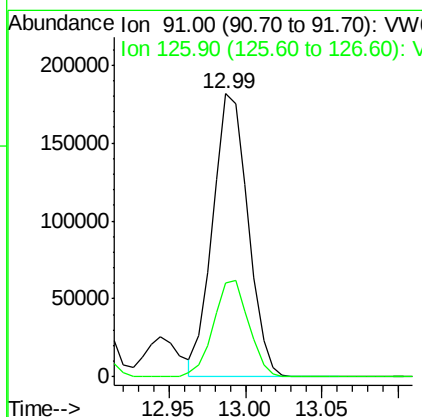
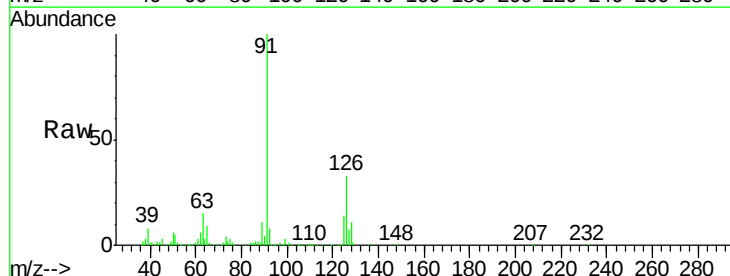
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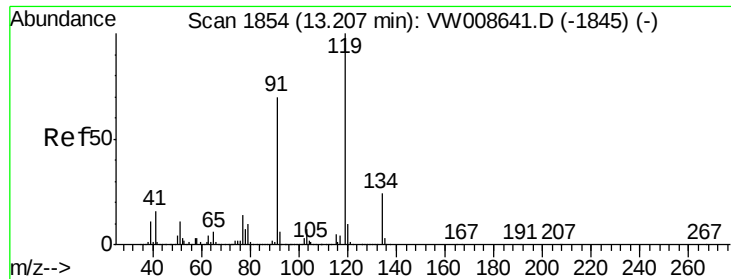
MMDadoda
2/19/2019 11:12:43 AM



#82
4-Chlorotoluene
Concen: 19.004 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.01 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.9	50.7





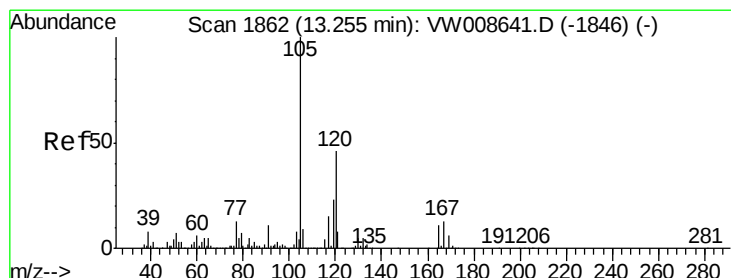
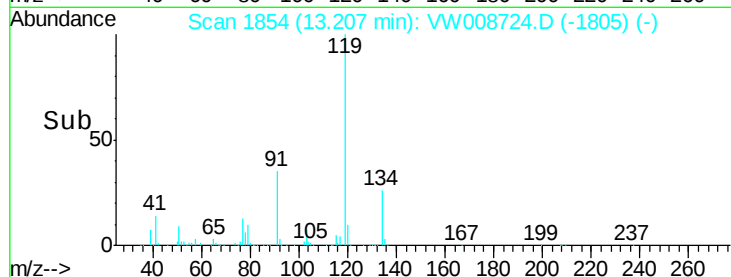
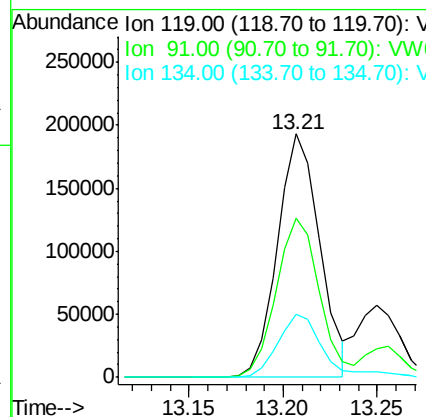
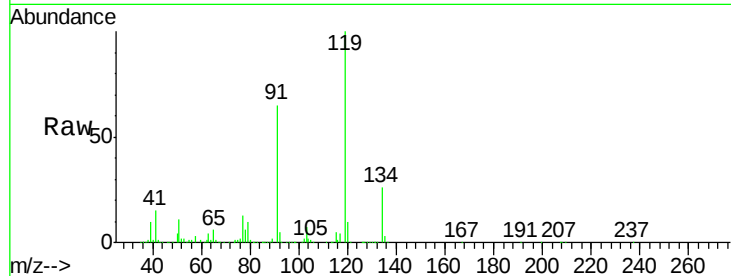
#83
 tert-Butylbenzene
 Concen: 19.356 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0218SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.2	34.0	102.0
134	28.1	13.6	40.8

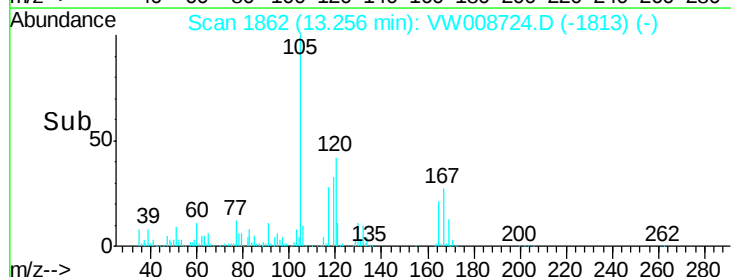
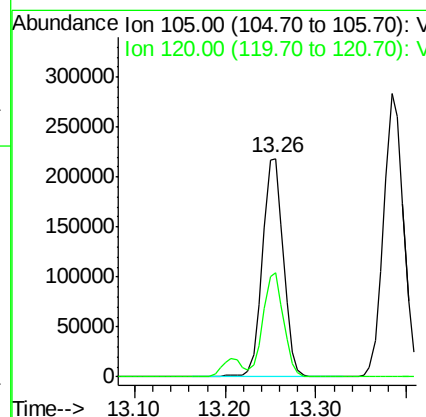
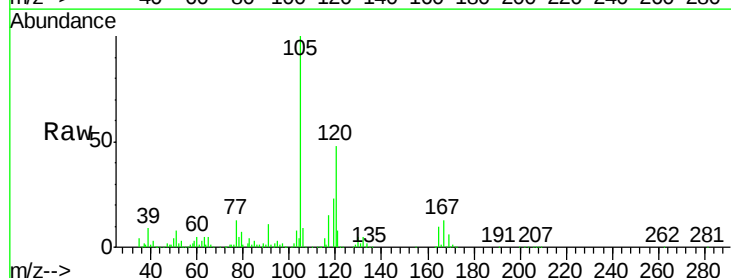
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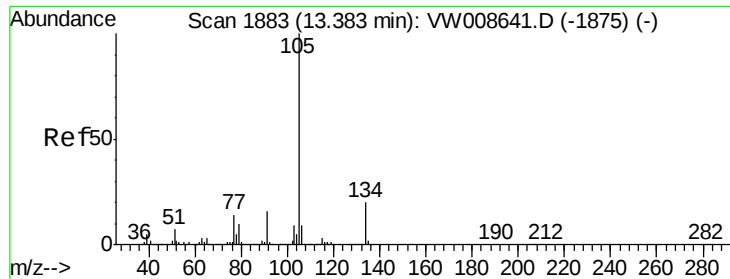
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.074 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.9	68.8





#85

sec-Butylbenzene

Concen: 19.072 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

ClientSampleId :

VW0218SBS01

Tot Ion:105 Resp: 430253

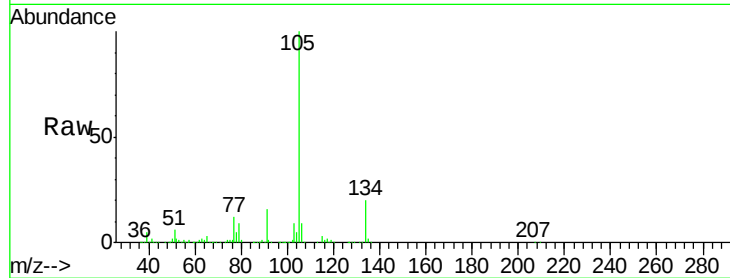
Ion Ratio Lower Upper

105 100

134 20.8 10.3 30.8

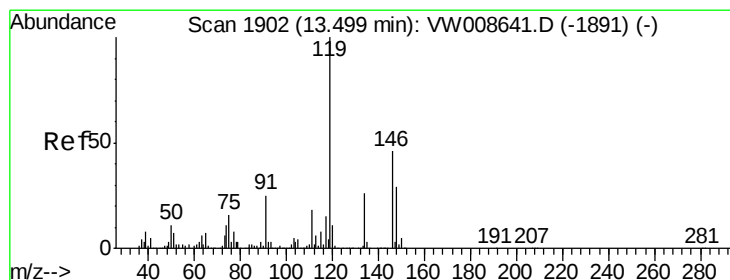
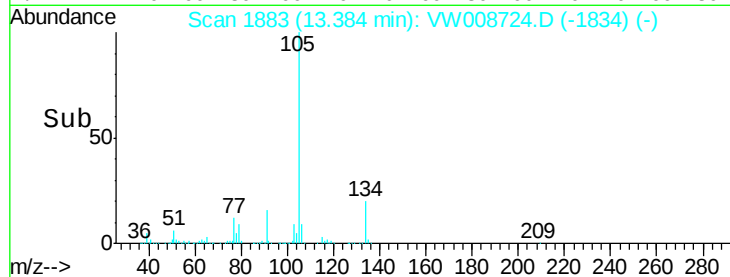
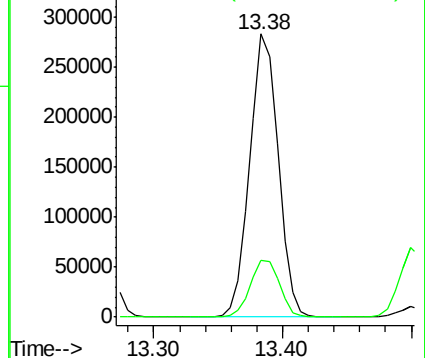
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 18.884 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

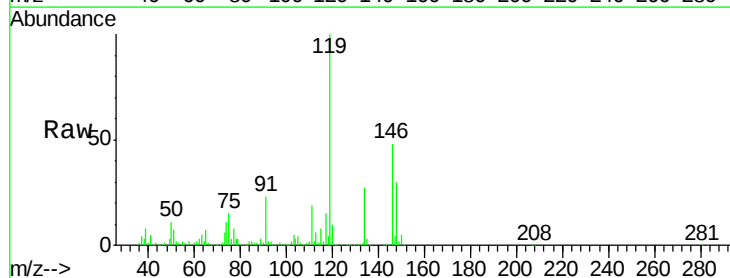
Tgt Ion:119 Resp: 381118

Ion Ratio Lower Upper

119 100

134 26.6 13.0 39.0

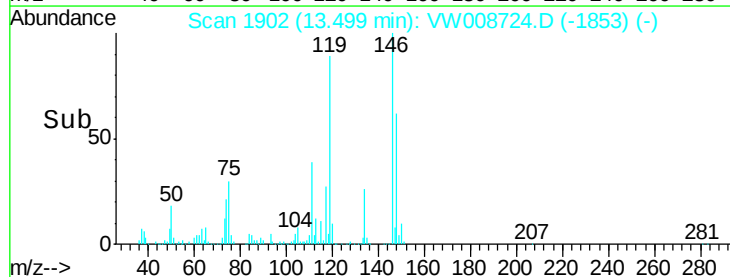
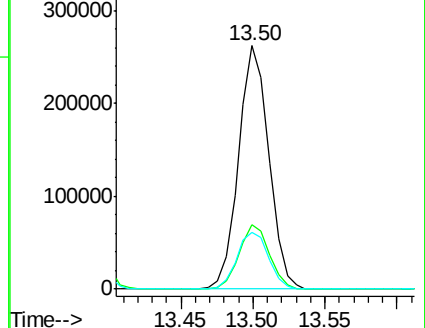
91 24.6 12.3 36.9

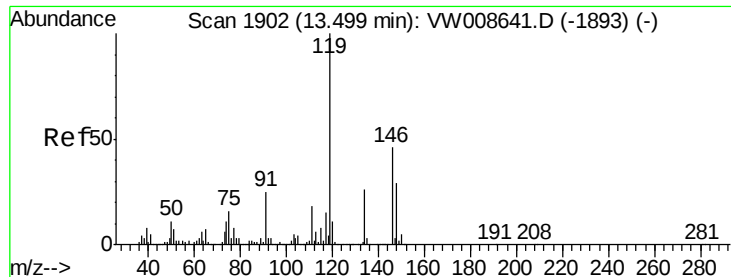


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





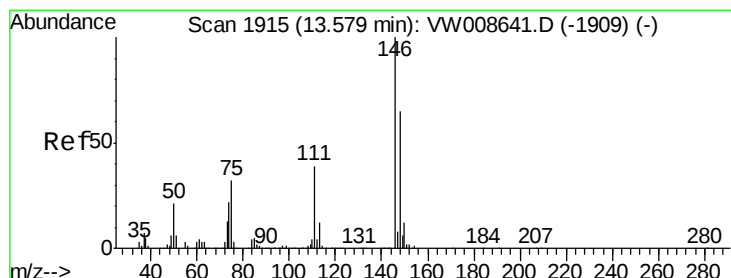
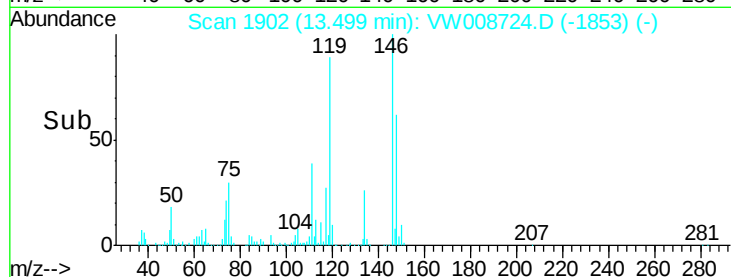
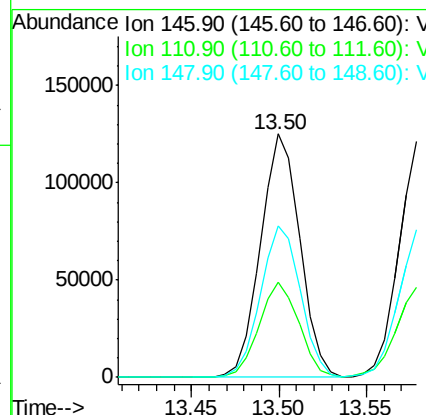
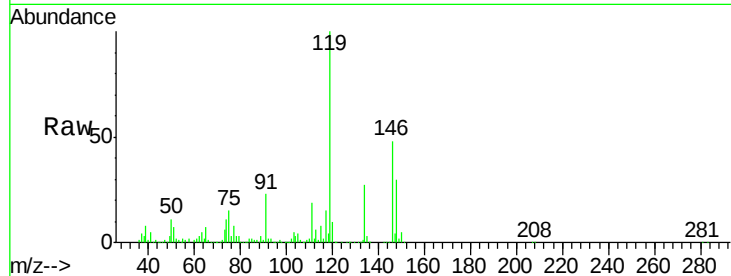
#87
 1,3-Dichlorobenzene
 Concen: 19.519 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0218SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.4	58.1
148	63.5	31.6	94.8

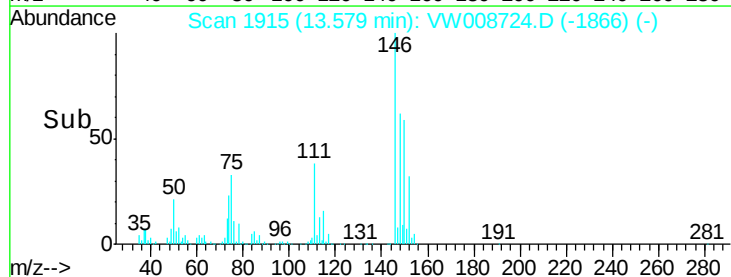
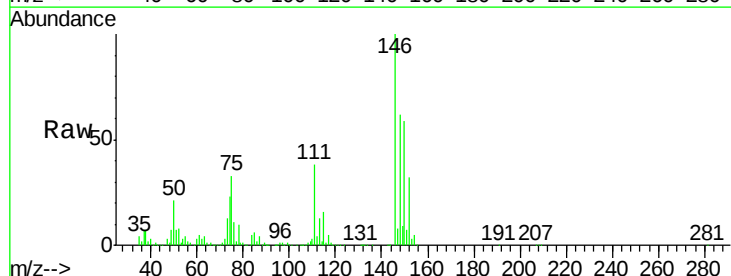
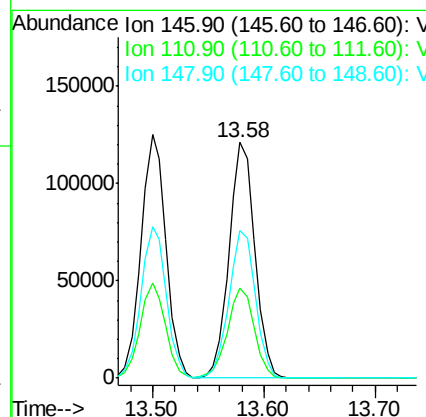
Manual Integrations
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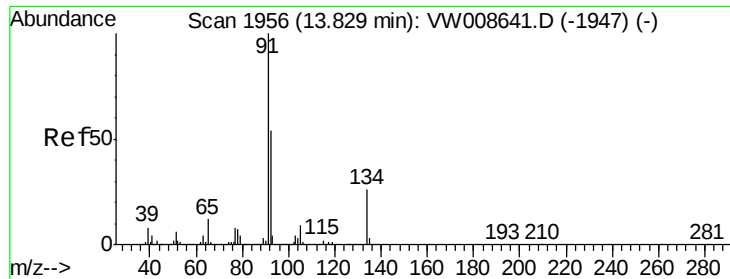
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#88
 1,4-Dichlorobenzene
 Concen: 19.602 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW008724.D
 Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.4	58.1
148	64.5	31.8	95.4





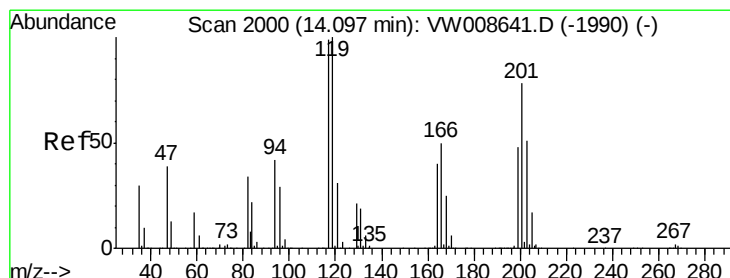
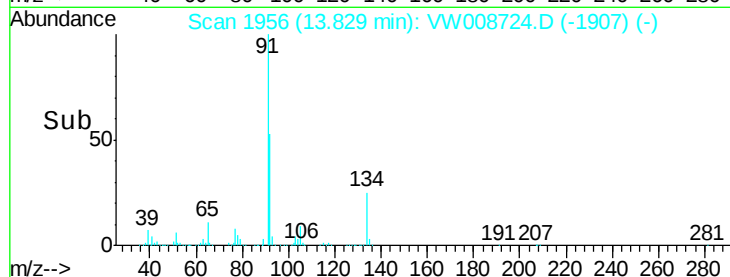
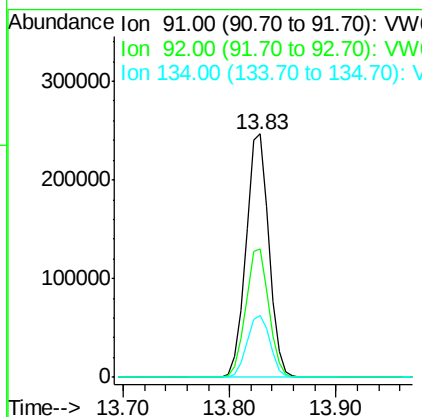
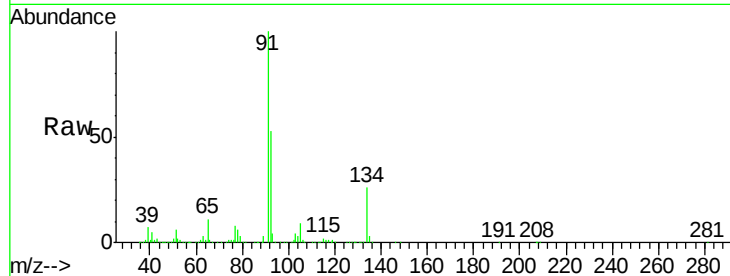
#89
n-Butylbenzene
Concen: 19.392 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.8	80.4
134	25.8	13.0	39.0

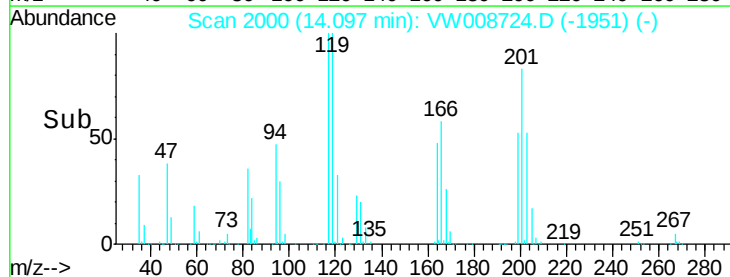
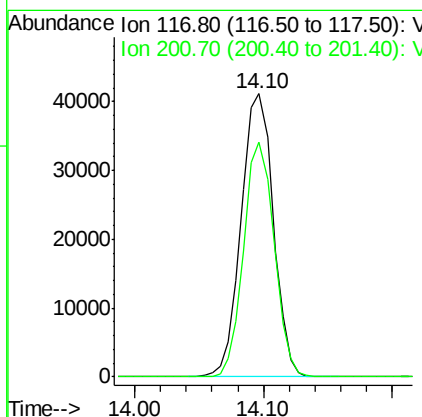
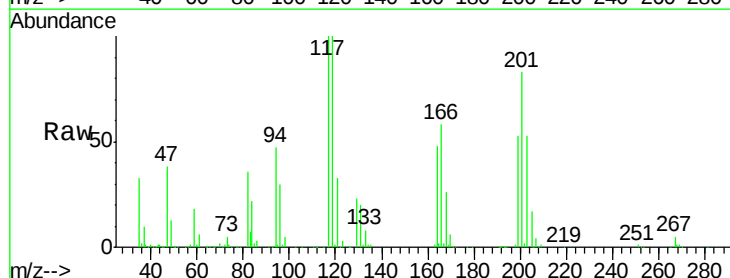
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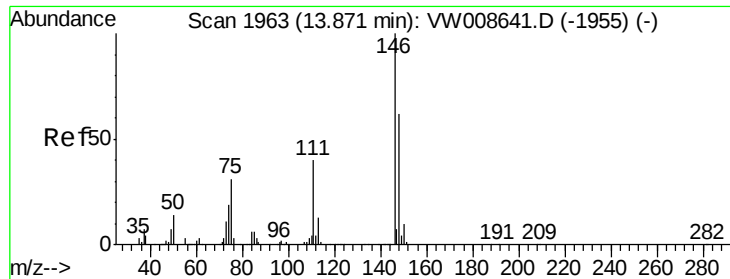
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#90
Hexachloroethane
Concen: 20.189 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Lower	Upper
117	100		
201	78.5	38.7	116.1





#91

1,2-Dichlorobenzene

Concen: 19.191 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

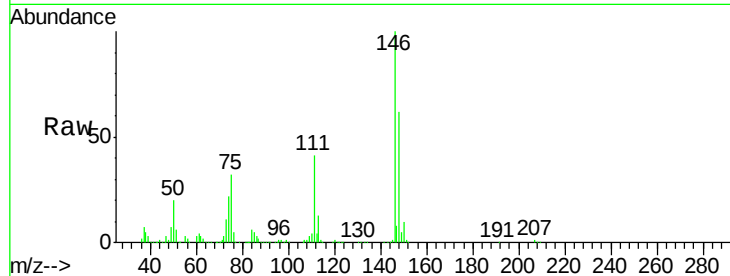
ClientSampleId :

VW0218SBS01

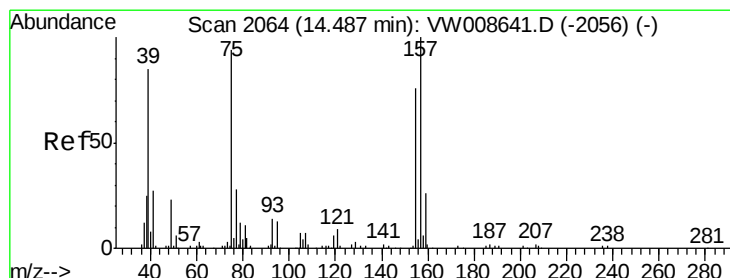
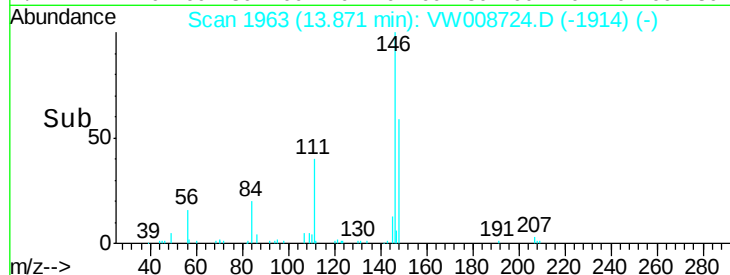
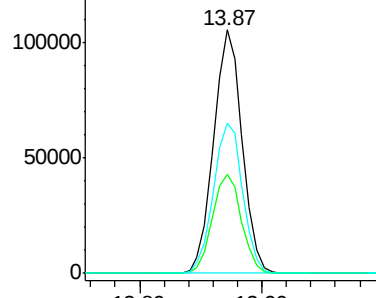
Tot Ion:	146	Resp:	170207
Ion Ratio		Lower	Upper
146	100		
111	41.2	20.5	61.5
148	63.5	31.6	94.8

Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.185 ug/l

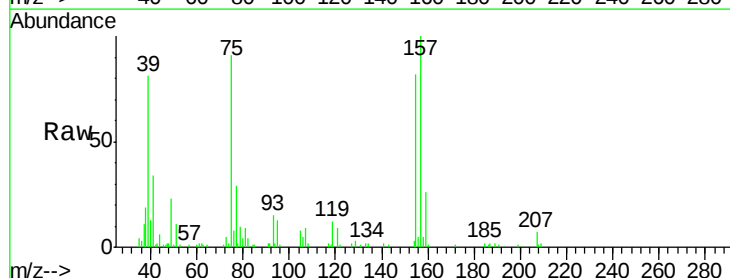
RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

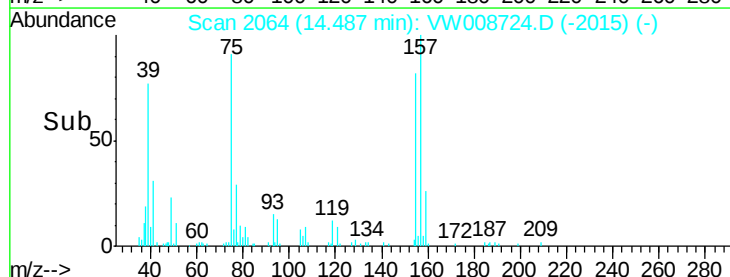
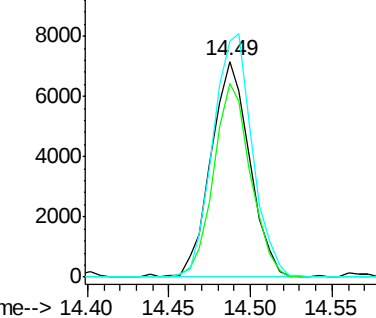
Lab File: VW008724.D

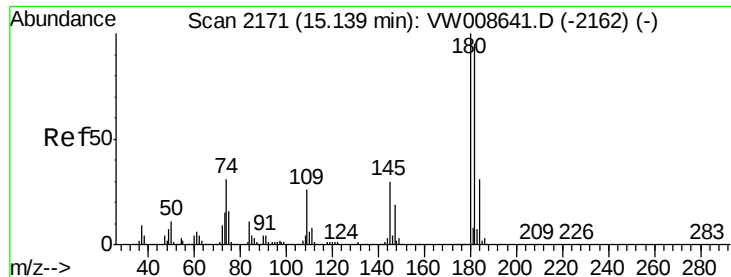
Acq: 18 Feb 2019 13:18

Tgt Ion:	75	Resp:	11811
Ion Ratio		Lower	Upper
75	100		
155	85.7	41.8	125.4
157	114.6	53.8	161.4



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





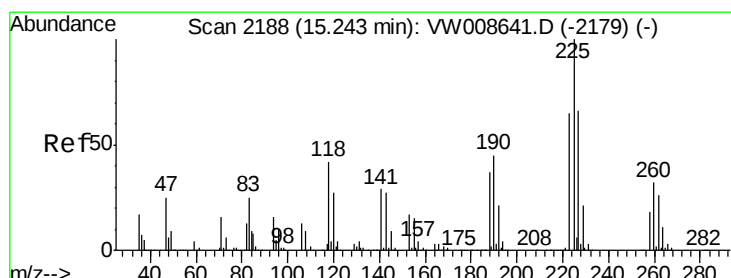
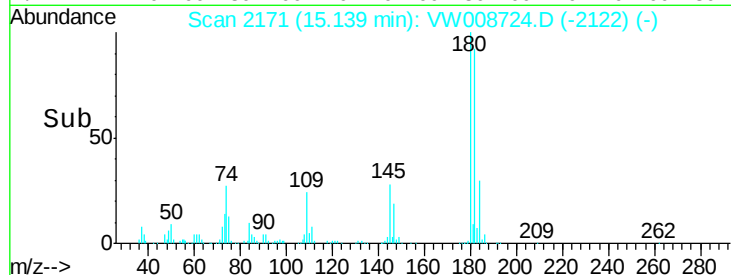
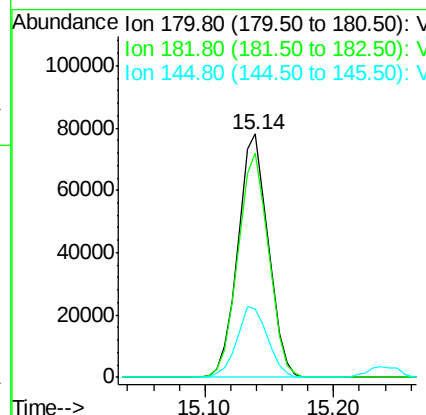
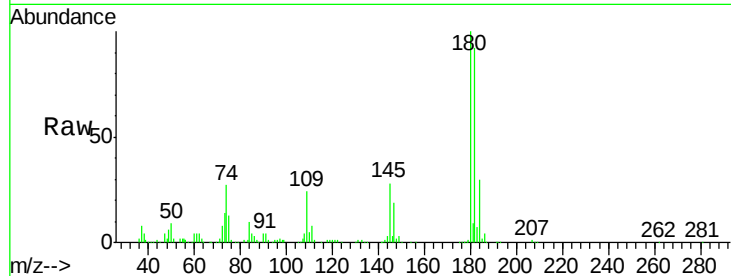
#93
1,2,4-Trichlorobenzene
Concen: 20.223 ug/l
RT: 15.14 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Instrument :
MSVOA_W
ClientSampleId :
VW0218SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	127677		
182	93.1	47.5	142.5	
145	29.5	15.1	45.3	

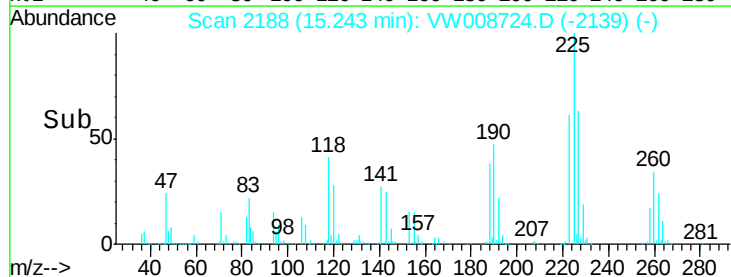
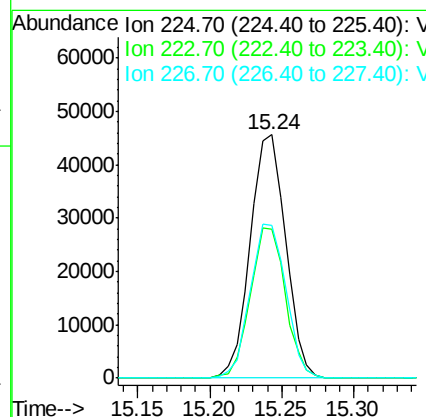
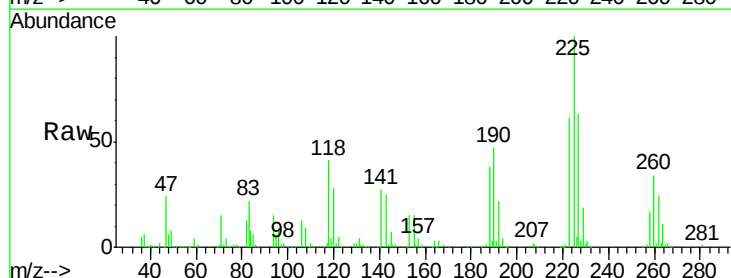
Manual Integrations
APPROVED

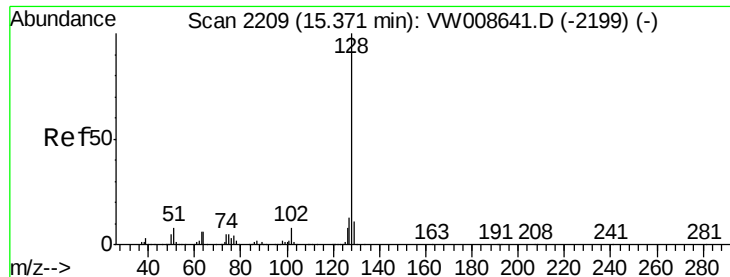
MMDadoda
2/19/2019 11:12:43 AM



#94
Hexachlorobutadiene
Concen: 21.083 ug/l
RT: 15.24 min Scan# 2188
Delta R.T. 0.00 min
Lab File: VW008724.D
Acq: 18 Feb 2019 13:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	77481		
223	61.3	31.4	94.3	
227	63.9	32.4	97.0	





#95

Naphthalene

Concen: 18.957 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Instrument :

MSVOA_W

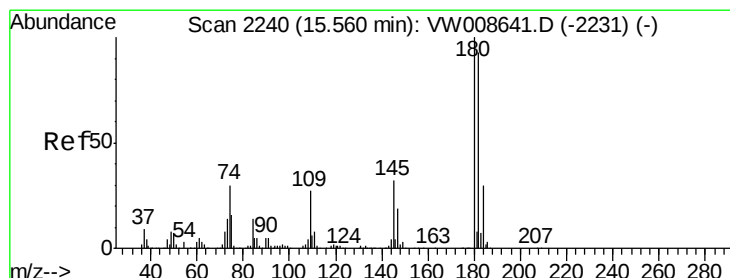
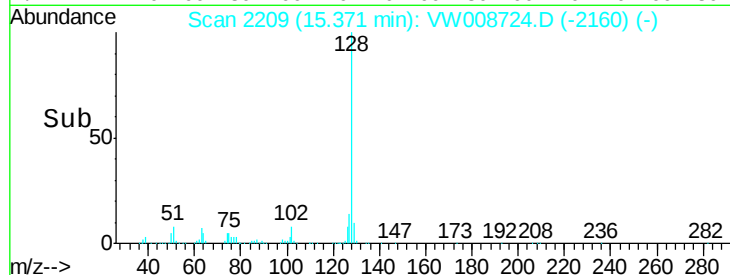
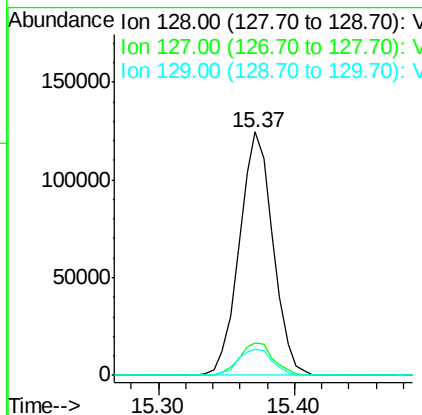
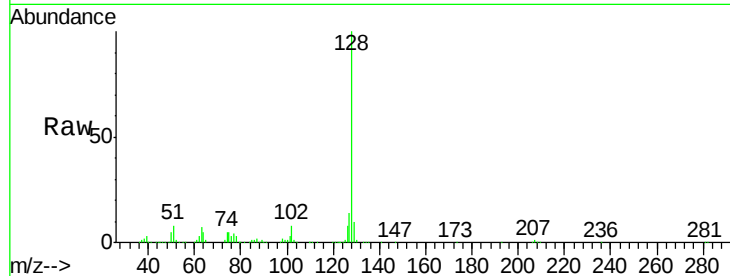
ClientSampleId :

VW0218SBS01

Tot Ion:	128	Resp:	214477
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.9	16.3
129	11.1	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
2/19/2019 11:12:43 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.886 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW008724.D

Acq: 18 Feb 2019 13:18

Tgt Ion:	180	Resp:	107733
Ion Ratio	Lower	Upper	
180	100		
182	97.2	47.5	142.5
145	31.8	15.9	47.7

