

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
 Data File : VW013348.D
 Acq On : 30 Sep 2019 23:30
 Operator : SY/VA
 Sample : VW0930SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Manual Integrations
 APPROVED

MMDadoda
 10/1/2019 11:32:58 AM

Quant Time: Oct 01 06:27:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	275009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	384780	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	335551	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	169229	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	116169	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
35) Dibromofluoromethane	7.88	113	113009	53.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.80%	
50) Toluene-d8	10.32	98	468694	52.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.84%	
62) 4-Bromofluorobenzene	12.62	95	160608	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	31852	20.079	ug/l	91
3) Chloromethane	2.21	50	41718	20.458	ug/l	98
4) Vinyl Chloride	2.35	62	55537	21.125	ug/l	99
5) Bromomethane	2.76	94	34105	20.471	ug/l	99
6) Chloroethane	2.91	64	31609	20.398	ug/l	97
7) Trichlorofluoromethane	3.25	101	28103	18.539	ug/l	96
8) Diethyl Ether	3.68	74	28226	21.799	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.06	101	55358	22.430	ug/l	99
10) Methyl Iodide	4.27	142	77222	20.181	ug/l	99
11) Tert butyl alcohol	5.19	59	27131	164.461	ug/l #	93
12) 1,1-Dichloroethene	4.04	96	53334	20.869	ug/l	97
13) Acrolein	3.89	56	13206	102.211	ug/l	99
14) Allyl chloride	4.66	41	80475	19.785	ug/l	99
15) Acrylonitrile	5.37	53	74656	133.582	ug/l	99
16) Acetone	4.12	43	59478	117.510	ug/l #	88
17) Carbon Disulfide	4.38	76	150047	20.313	ug/l	98
18) Methyl Acetate	4.67	43	41479	29.153	ug/l	97
19) Methyl tert-butyl Ether	5.42	73	89111	22.750	ug/l	97
20) Methylene Chloride	4.92	84	60283	21.640	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	57497	20.815	ug/l	99
22) Diisopropyl ether	6.31	45	159809	20.662	ug/l	97
23) Vinyl Acetate	6.25	43	502057	109.415	ug/l	97
24) 1,1-Dichloroethane	6.21	63	96916	20.765	ug/l	97
25) 2-Butanone	7.17	43	97875	128.813	ug/l	91
26) 2,2-Dichloropropane	7.16	77	59537	19.272	ug/l	98
27) cis-1,2-Dichloroethene	7.16	96	62121	21.310	ug/l	98
28) Bromochloromethane	7.51	49	31377	17.516	ug/l #	94
29) Tetrahydrofuran	7.53	42	64430	138.270	ug/l	99
30) Chloroform	7.67	83	94968	20.783	ug/l	100
31) Cyclohexane	7.95	56	103942	21.365	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	79568	21.500	ug/l	99
36) 1,1-Dichloropropene	8.08	75	82178	22.050	ug/l	99
37) Ethyl Acetate	7.25	43	45035	28.432	ug/l	99
38) Carbon Tetrachloride	8.07	117	74343	22.253	ug/l	91

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MMDadoda
 10/1/2019 11:32:58 AM

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	109599	22.884	ug/l	99
40) Benzene	8.32	78	226788	21.816	ug/l	100
41) Methacrylonitrile	7.49	41	24260	25.663	ug/l	97
42) 1,2-Dichloroethane	8.40	62	62783	22.467	ug/l	99
43) Isopropyl Acetate	8.42	43	75639	24.916	ug/l	98
44) Trichloroethene	9.09	130	64718	22.189	ug/l	97
45) 1,2-Dichloropropane	9.37	63	54680	21.545	ug/l	98
46) Dibromomethane	9.46	93	30087	24.418	ug/l	98
47) Bromodichloromethane	9.65	83	67006	21.372	ug/l	96
48) Methyl methacrylate	9.43	41	39448	27.635	ug/l	92
49) 1,4-Dioxane	9.46	88	11786	637.233	ug/l #	94
51) 4-Methyl-2-Pentanone	10.21	43	209525	137.675	ug/l	98
52) Toluene	10.38	92	144083	21.627	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	69911	21.703	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	83809	21.399	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	42902	23.295	ug/l	95
56) Ethyl methacrylate	10.65	69	59496	24.684	ug/l	99
57) 1,3-Dichloropropane	10.93	76	75040	23.349	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	137280	123.030	ug/l	98
59) 2-Hexanone	10.97	43	142433	136.033	ug/l	99
60) Dibromochloromethane	11.13	129	47910	22.910	ug/l	98
61) 1,2-Dibromoethane	11.23	107	43074	24.599	ug/l	100
64) Tetrachloroethene	10.86	164	58929	23.146	ug/l	99
65) Chlorobenzene	11.66	112	150787	21.520	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	53267	22.252	ug/l	99
67) Ethyl Benzene	11.73	91	275905	21.732	ug/l	99
68) m/p-Xylenes	11.84	106	211154	43.646	ug/l	99
69) o-Xylene	12.16	106	96038	21.352	ug/l	98
70) Styrene	12.18	104	167009	21.628	ug/l	100
71) Bromoform	12.35	173	30658	24.242	ug/l #	99
73) Isopropylbenzene	12.46	105	278255	22.258	ug/l	100
74) N-amyl acetate	12.27	43	67621	24.377	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	53001	25.351	ug/l	99
76) 1,2,3-Trichloropropane	12.76	75	42403m	28.372	ug/l	
77) Bromobenzene	12.74	156	65797	22.211	ug/l	99
78) n-propylbenzene	12.80	91	321033	21.939	ug/l	99
79) 2-Chlorotoluene	12.89	91	179751	21.926	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	229566	21.846	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	16008	24.035	ug/l	96
82) 4-Chlorotoluene	12.99	91	185780	21.490	ug/l	98
83) tert-Butylbenzene	13.21	119	207170	22.461	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	229208	21.919	ug/l	99
85) sec-Butylbenzene	13.38	105	287998	22.648	ug/l	100
86) p-Isopropyltoluene	13.50	119	262487	22.255	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	125053	21.934	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	123096	22.014	ug/l	99
89) n-Butylbenzene	13.82	91	232948	21.630	ug/l	99
90) Hexachloroethane	14.09	117	44390	22.404	ug/l	97
91) 1,2-Dichlorobenzene	13.86	146	111835	22.674	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	8849	27.672	ug/l	98

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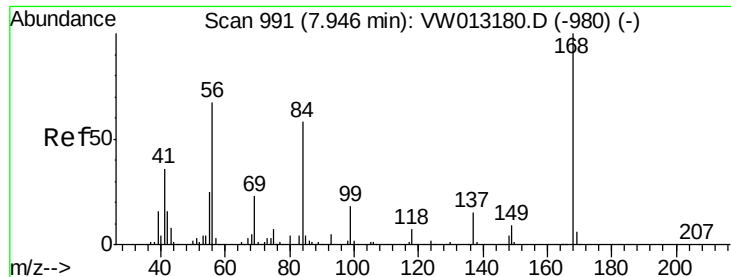
Manual Integrations
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10/1/2019 11:32:58 AM

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 20 15:58:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	78237	22.136	ug/l	98
94) Hexachlorobutadiene	15.24	225	55242	22.846	ug/l	98
95) Naphthalene	15.36	128	143579	24.838	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	69169	22.649	ug/l	100

(#) = 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: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion:168 Resp: 275009

Ion Ratio Lower Upper

168 100

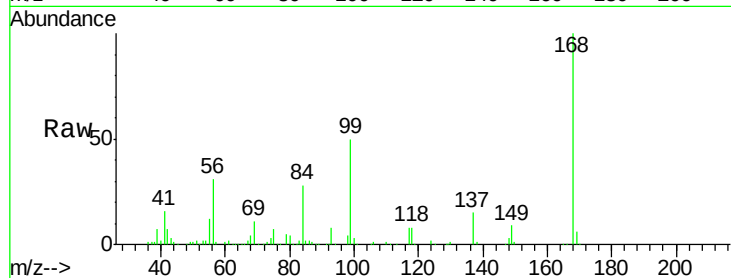
99 49.8 40.2 60.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

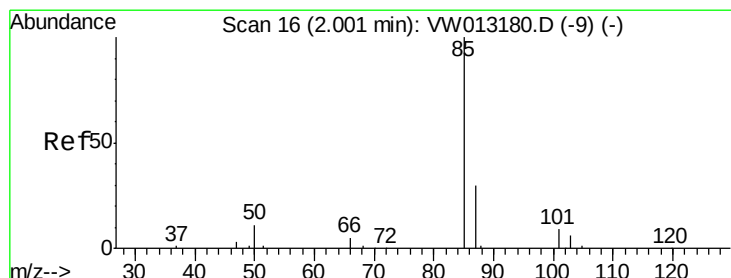
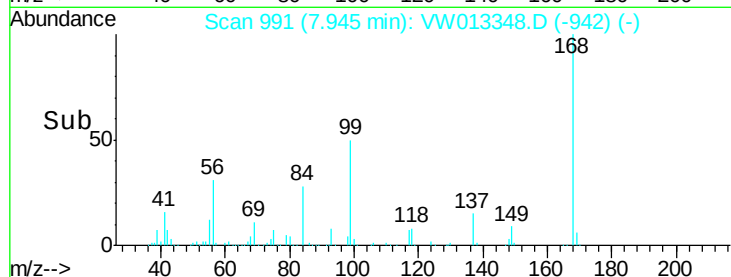
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 20.079 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW013348.D

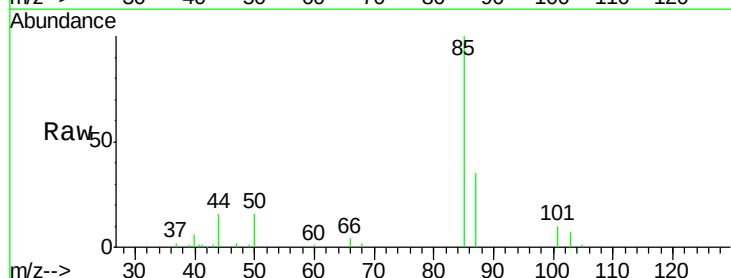
Acq: 30 Sep 2019 23:30

Tgt Ion: 85 Resp: 31852

Ion Ratio Lower Upper

85 100

87 35.2 15.1 45.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

12000

10000

8000

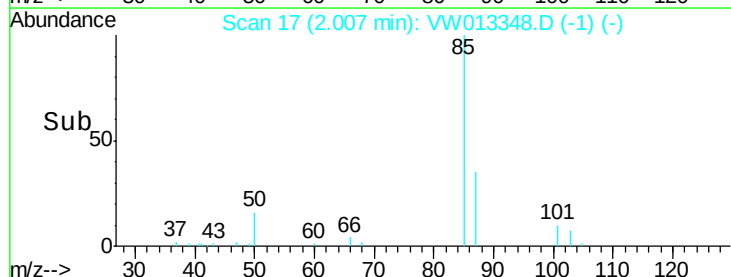
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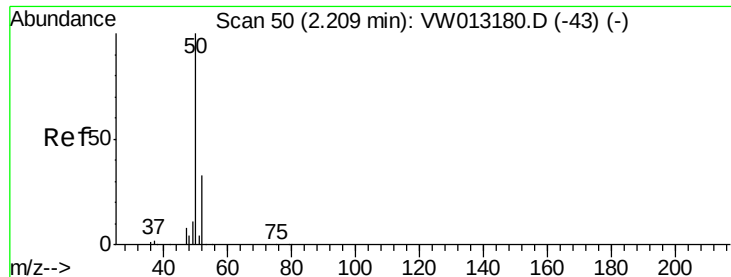
4000

2000

0

Time--> 1.90 2.00 2.10





#3

Chloromethane

Concen: 20.458 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion: 50 Resp: 41718

Ion Ratio Lower Upper

50 100

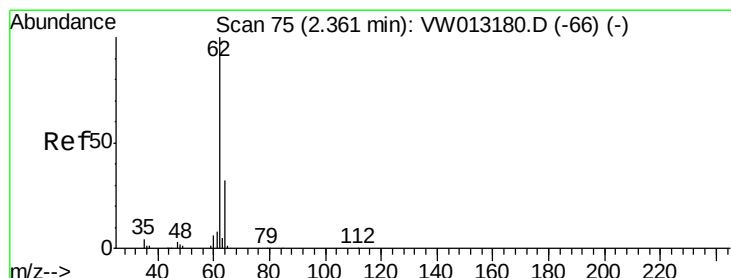
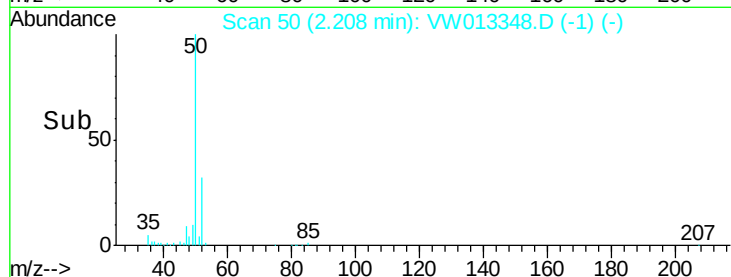
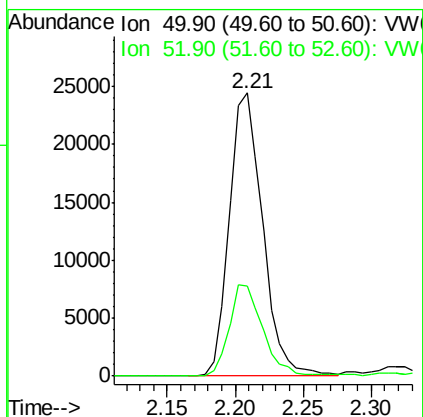
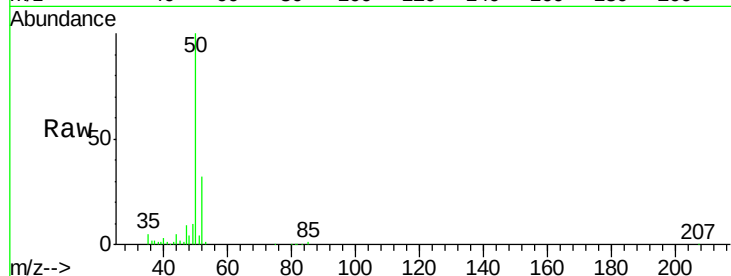
52 31.7 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.125 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013348.D

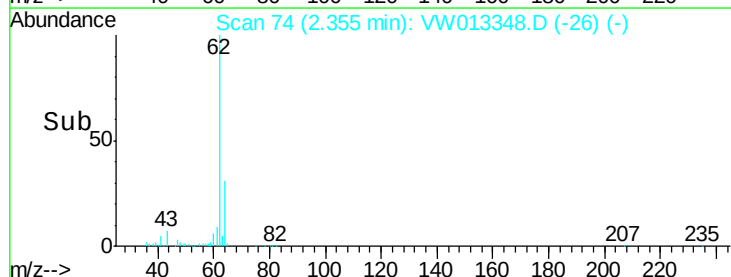
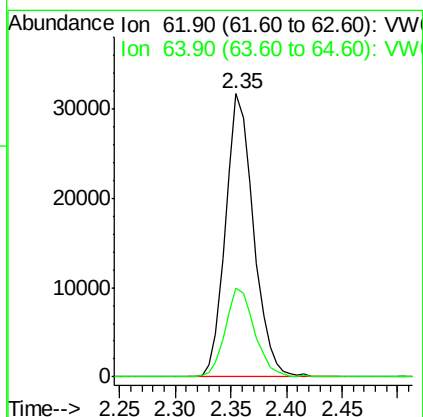
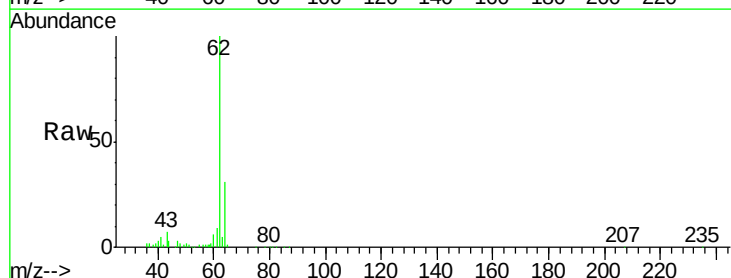
Acq: 30 Sep 2019 23:30

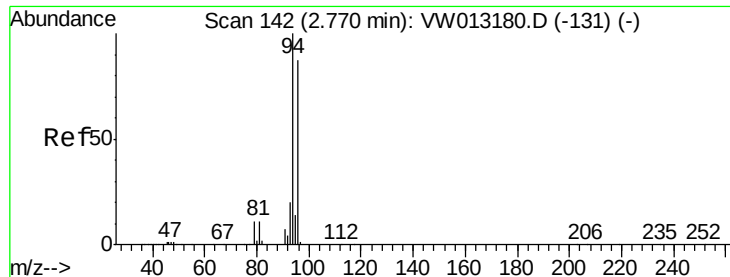
Tgt Ion: 62 Resp: 55537

Ion Ratio Lower Upper

62 100

64 31.3 25.3 37.9





#5

Bromomethane

Concen: 20.471 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion: 94 Resp: 34105

Ion Ratio Lower Upper

94 100

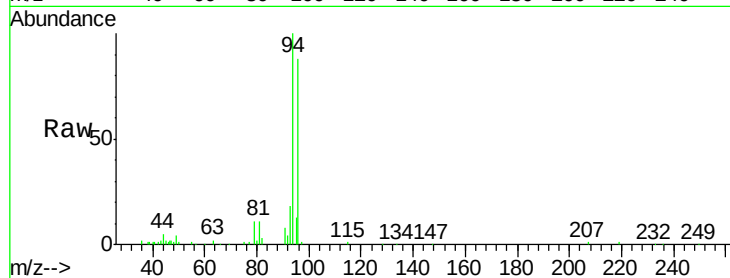
96 88.4 69.7 104.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.76

20000

15000

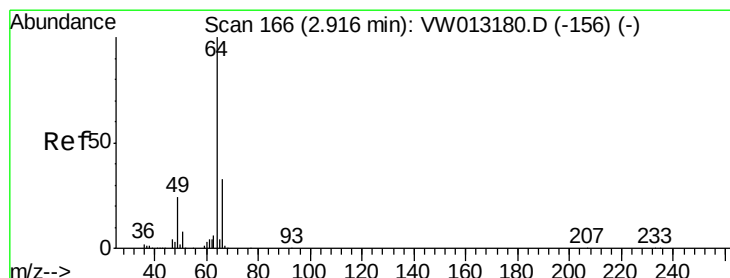
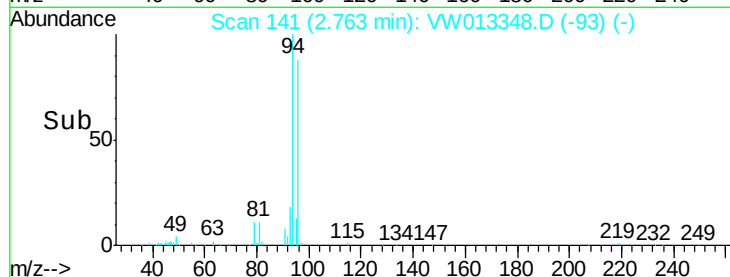
10000

5000

0

Time-->

2.70 2.80 2.90



#6

Chloroethane

Concen: 20.398 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW013348.D

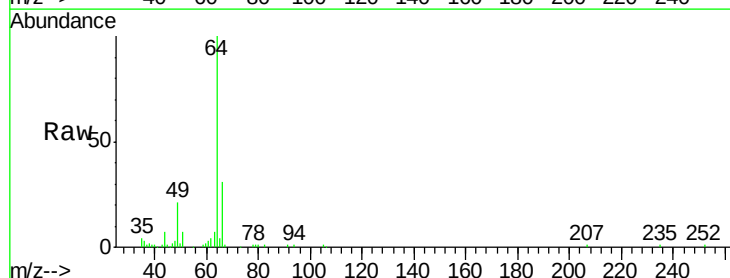
Acq: 30 Sep 2019 23:30

Tgt Ion: 64 Resp: 31609

Ion Ratio Lower Upper

64 100

66 31.2 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW

2.91

15000

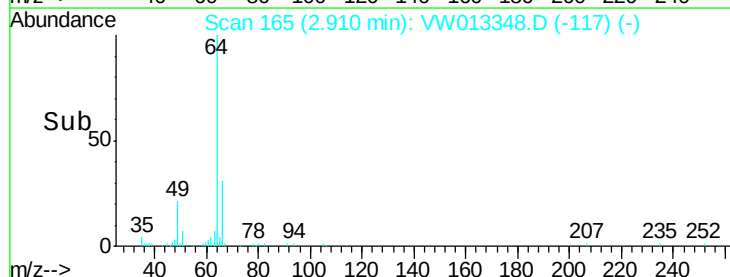
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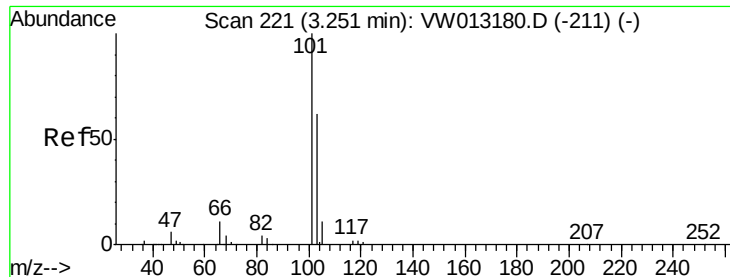
5000

0

Time-->

2.80 2.90 3.00





#7

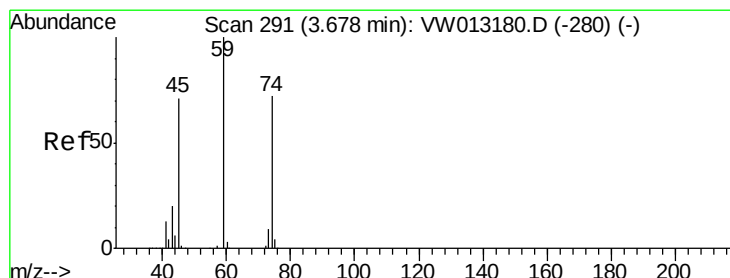
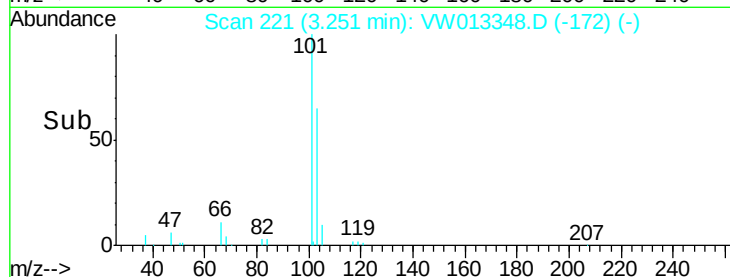
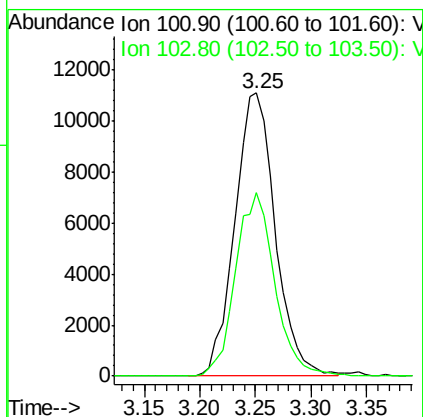
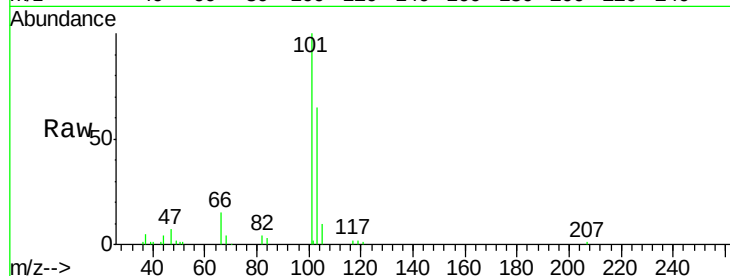
Trichlorofluoromethane
 Concen: 18.539 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
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 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	49.7	74.5

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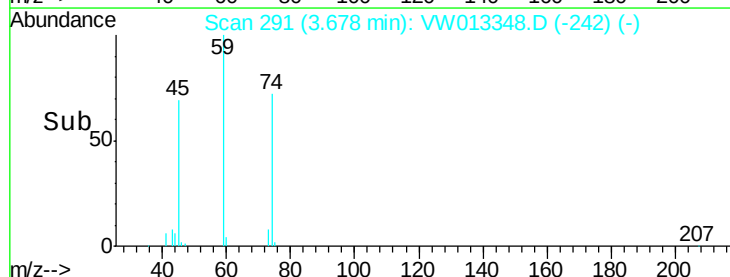
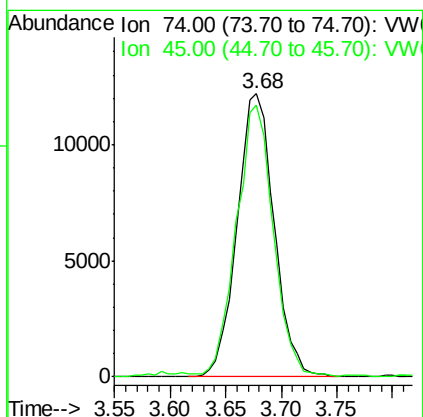
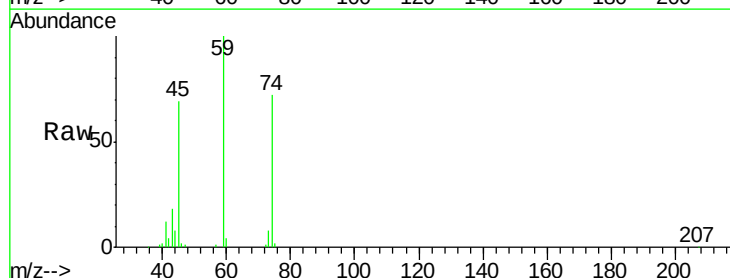
MMDadoda
 10/1/2019 11:32:58 AM

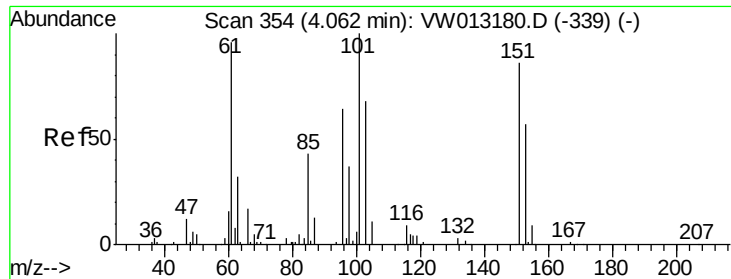


#8

Diethyl Ether
 Concen: 21.799 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.8	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.430 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

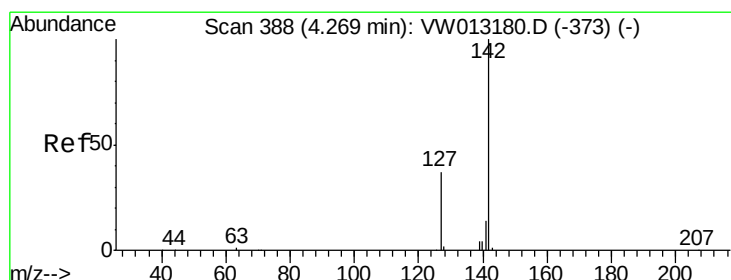
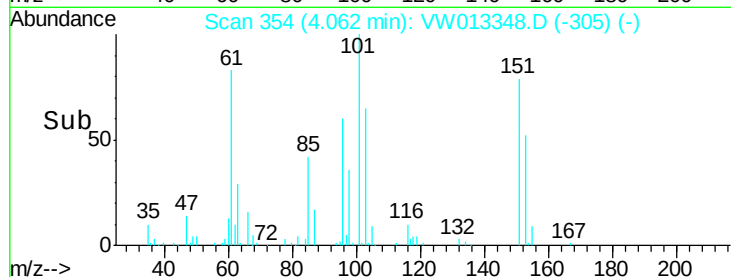
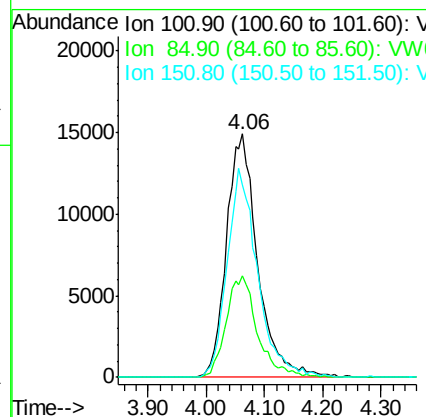
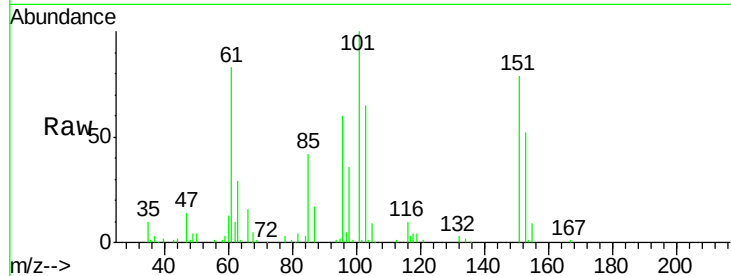
ClientSampleId :

VW0930SBS01

Tot Ion:	101	Resp:	55358
Ion Ratio	Lower	Upper	
101	100		
85	41.9	33.4	50.0
151	84.2	66.9	100.3

Manual Integrations
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10/1/2019 11:32:58 AM



#10

Methyl Iodide

Concen: 20.181 ug/l

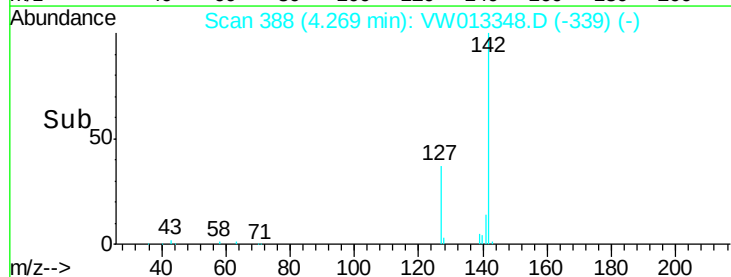
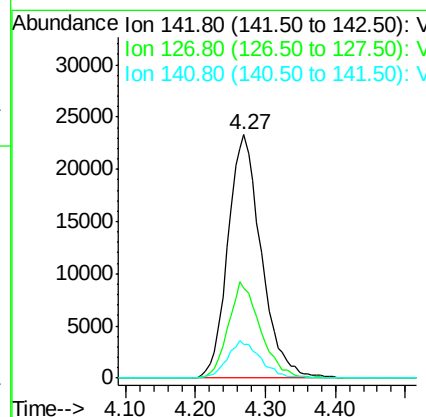
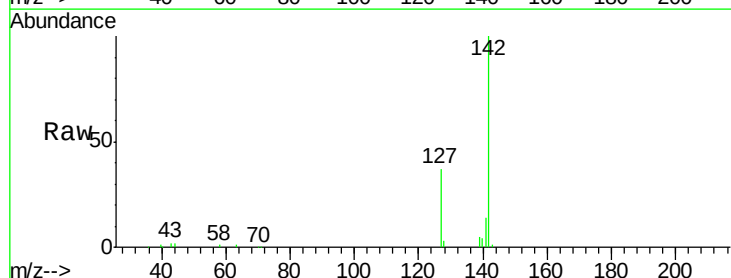
RT: 4.27 min Scan# 388

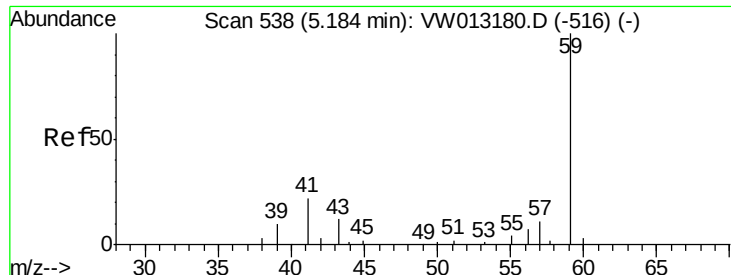
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	142	Resp:	77222
Ion Ratio	Lower	Upper	
142	100		
127	38.0	30.9	46.3
141	14.9	11.7	17.5





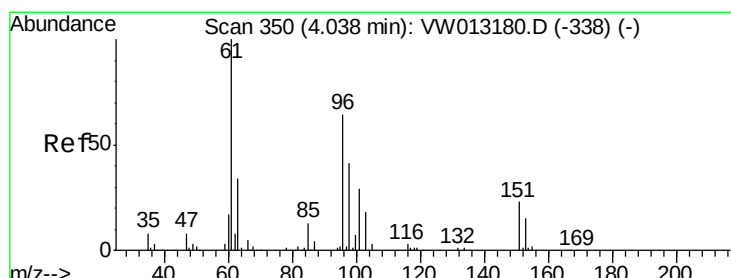
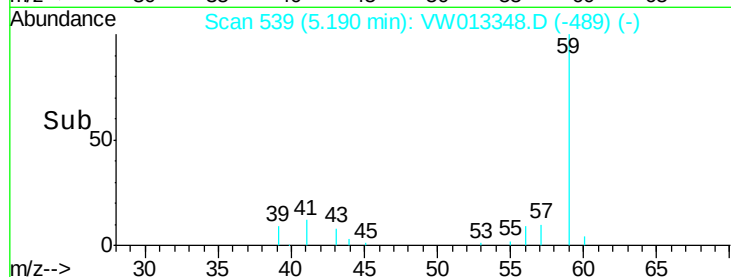
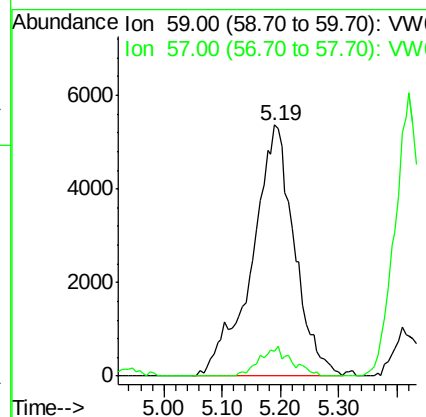
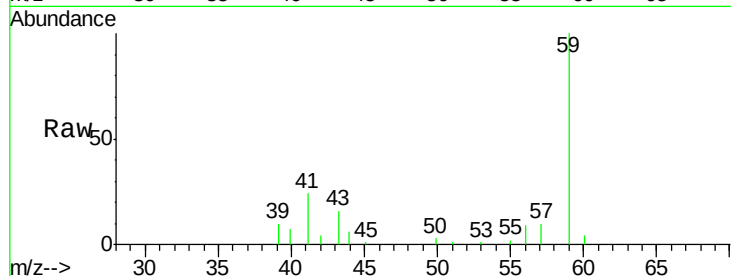
#11
Tert butyl alcohol
Concen: 164.461 ug/l
RT: 5.19 min Scan# 539
Delta R.T. 0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.5	8.2	12.2#

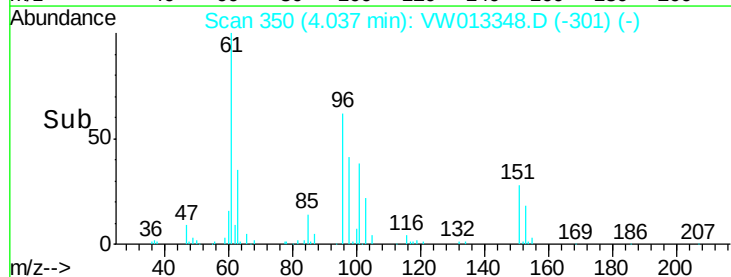
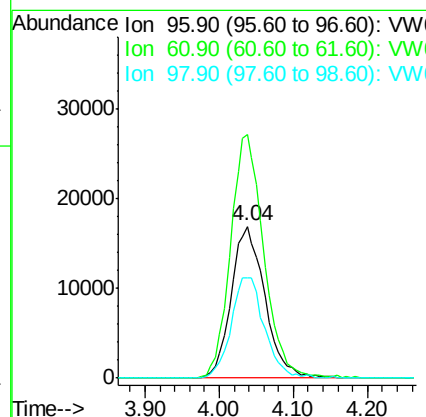
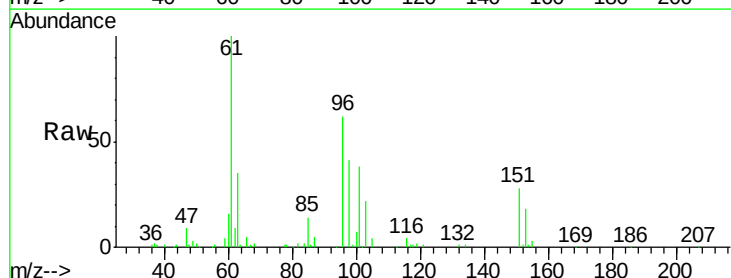
Manual Integrations
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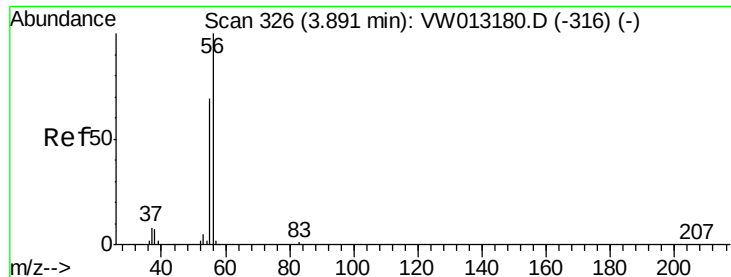
MMDadoda
10/1/2019 11:32:58 AM



#12
1,1-Dichloroethene
Concen: 20.869 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.7	125.1	187.7
98	66.1	50.8	76.2





#13

Acrolein

Concen: 102.211 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampled :

VW0930SBS01

Tot Ion: 56 Resp: 13206

Ion Ratio Lower Upper

56 100

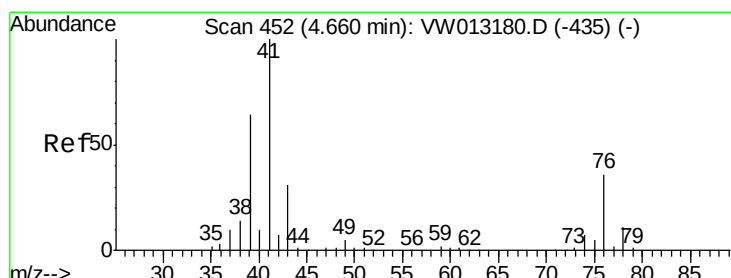
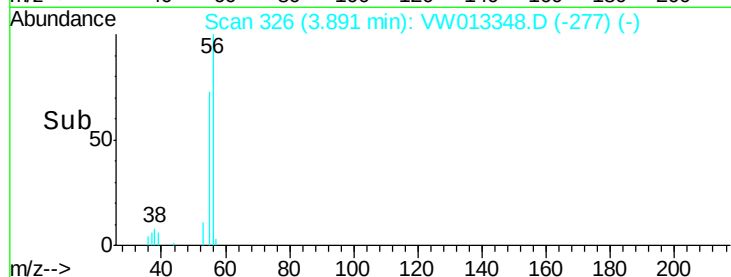
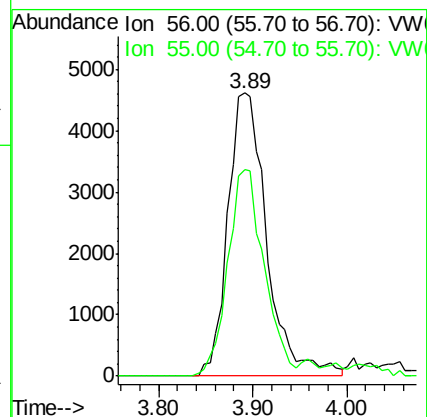
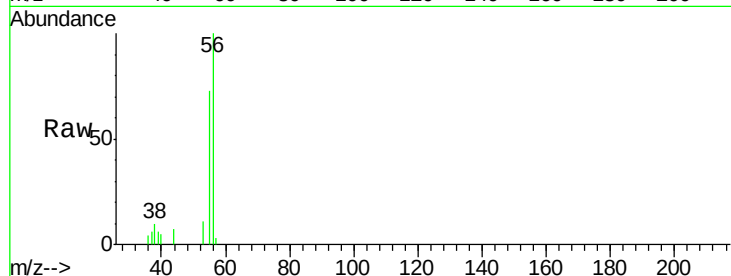
55 68.1 55.4 83.0

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#14

Allyl chloride

Concen: 19.785 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

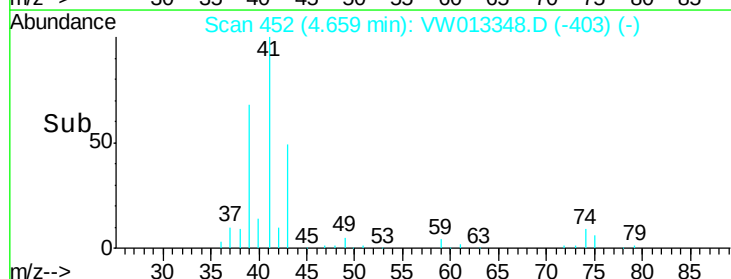
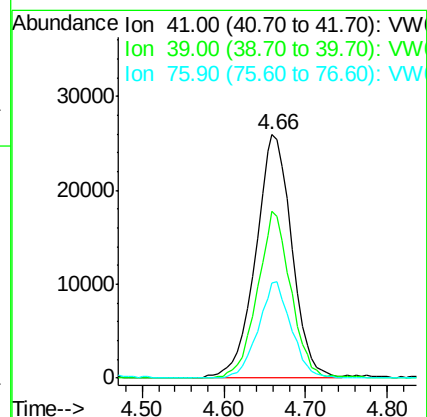
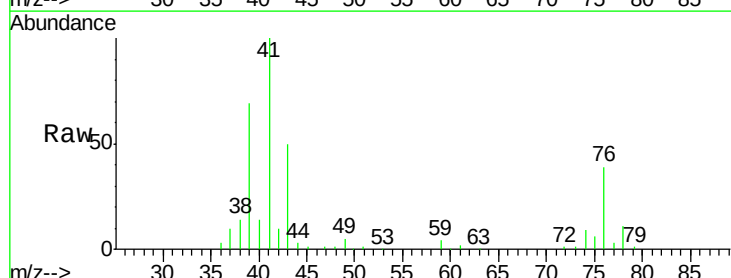
Tgt Ion: 41 Resp: 80475

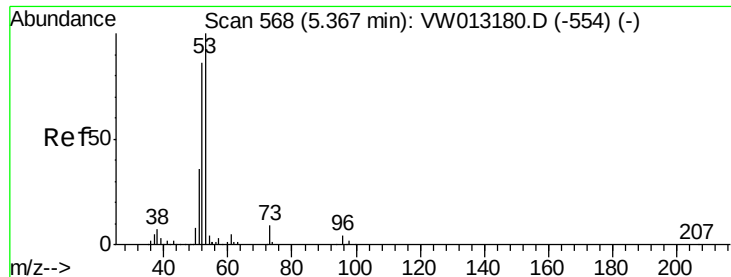
Ion Ratio Lower Upper

41 100

39 63.1 51.0 76.4

76 35.7 28.4 42.6





#15

Acrylonitrile

Concen: 133.582 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

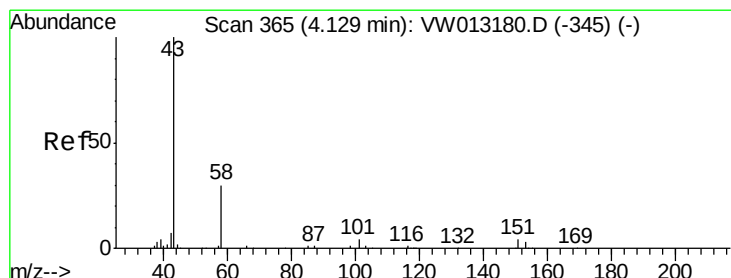
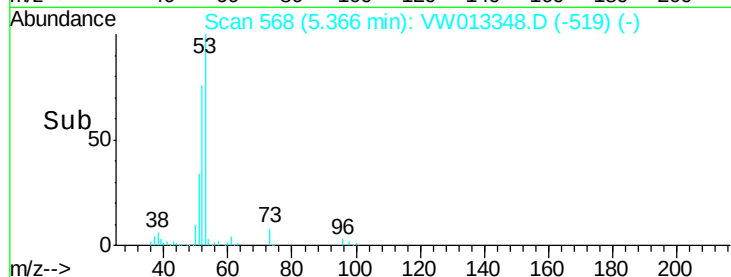
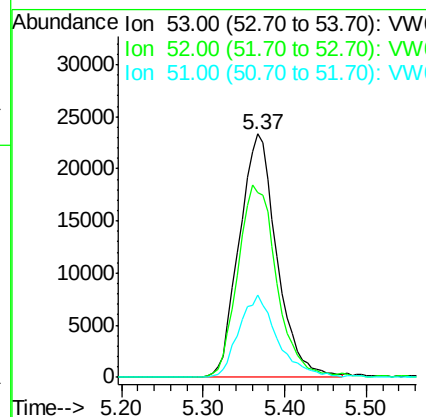
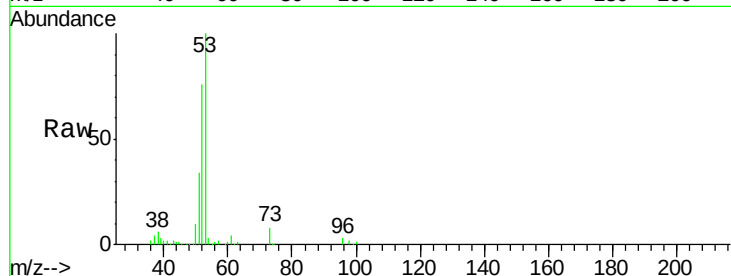
ClientSampleId :

VW0930SBS01

Tot Ion:	53	Resp:	74656
Ion Ratio	Lower	Upper	
53	100		
52	81.3	65.3	97.9
51	34.6	29.0	43.4

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#16

Acetone

Concen: 117.510 ug/l

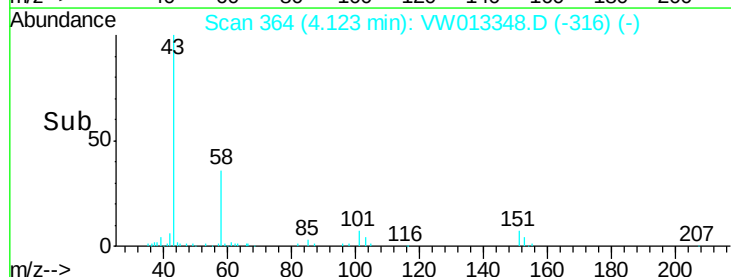
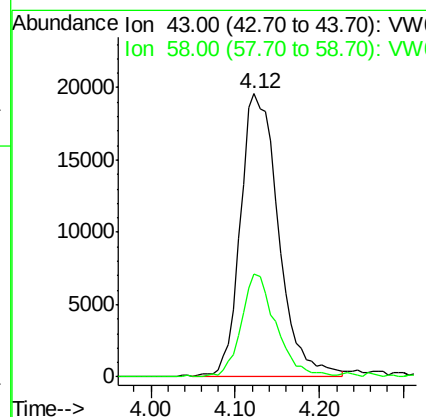
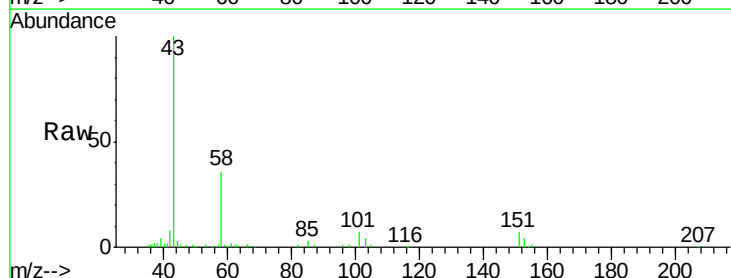
RT: 4.12 min Scan# 364

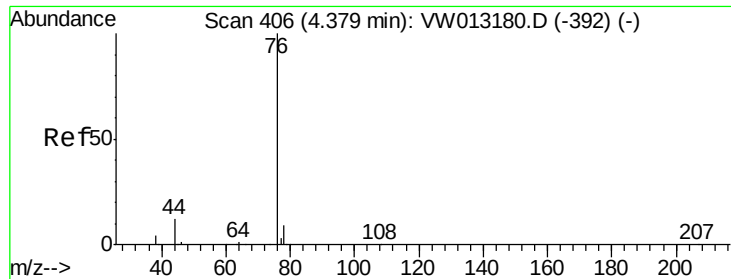
Delta R.T. -0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	43	Resp:	59478
Ion Ratio	Lower	Upper	
43	100		
58	36.5	24.1	36.1#





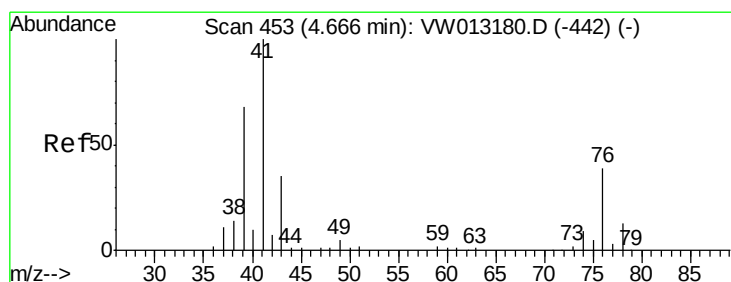
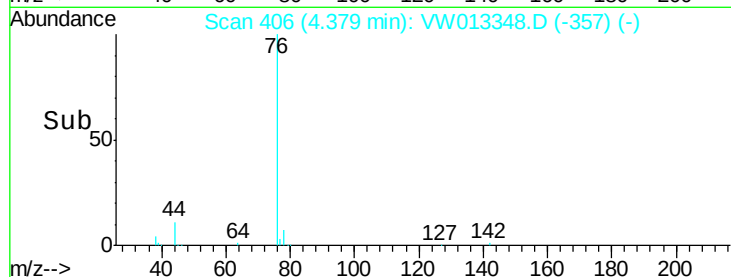
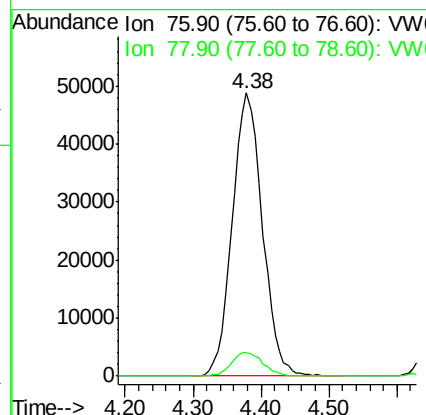
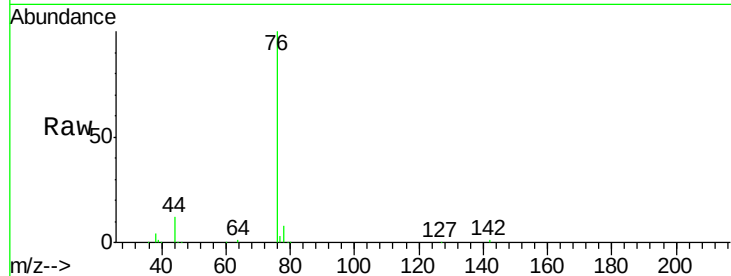
#17
Carbon Disulfide
Concen: 20.313 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.1	7.0	10.4

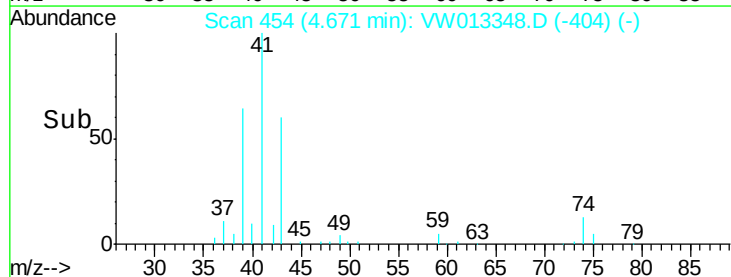
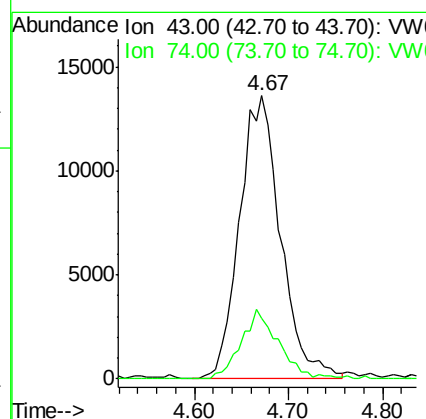
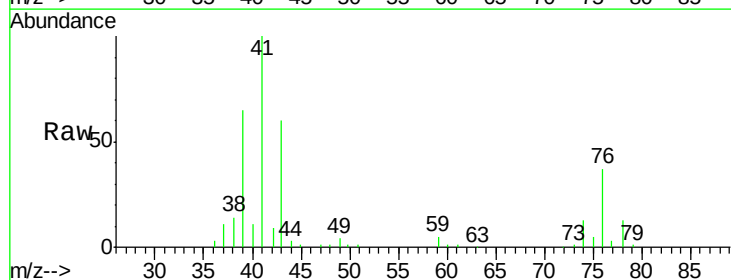
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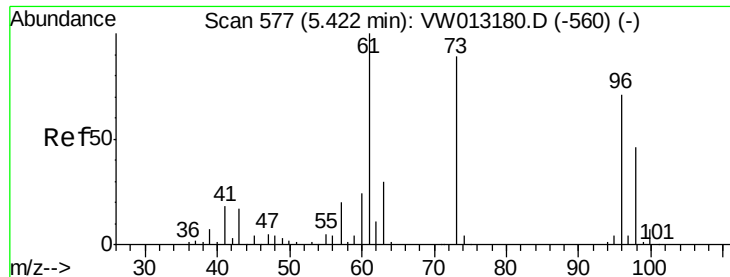
MMDadoda
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#18
Methyl Acetate
Concen: 29.153 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.4	19.3	28.9





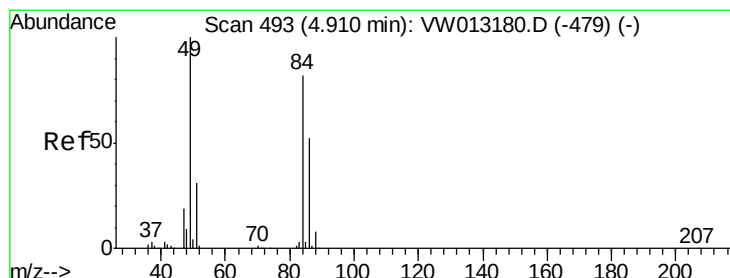
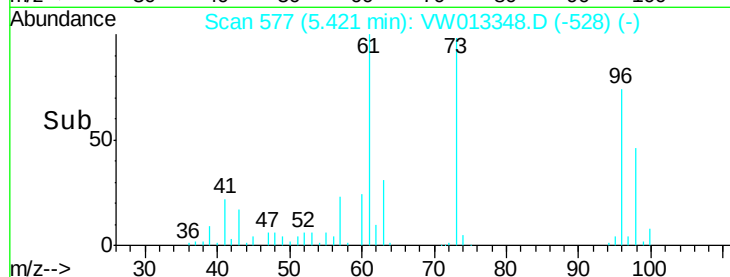
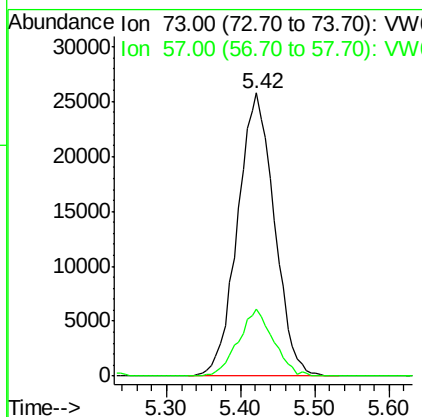
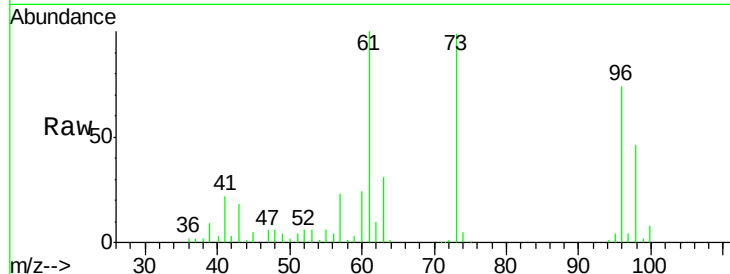
#19
Methyl tert-butyl Ether
Concen: 22.750 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion: 73 Resp: 89111
Ion Ratio Lower Upper
73 100
57 23.5 17.6 26.4

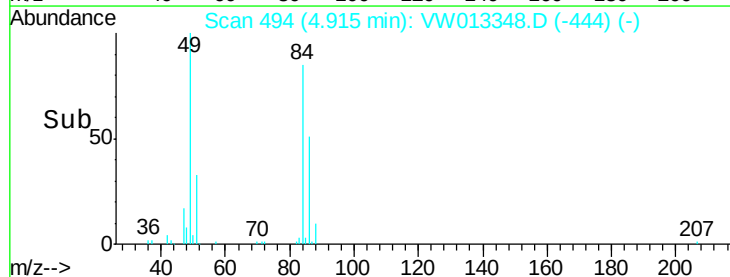
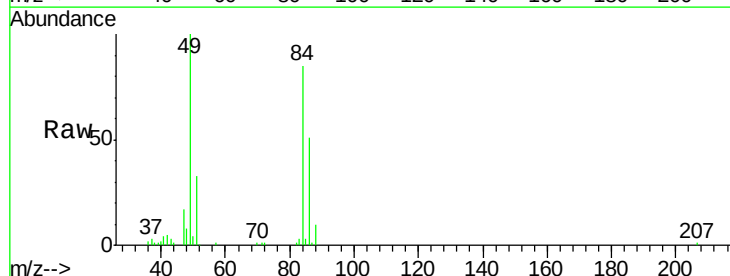
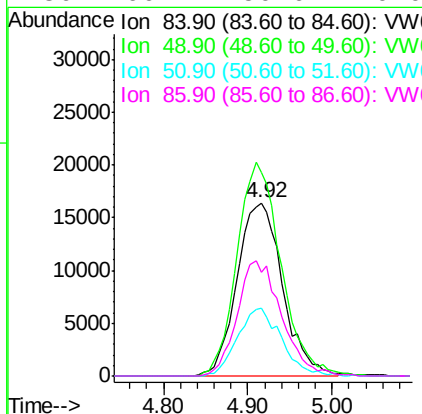
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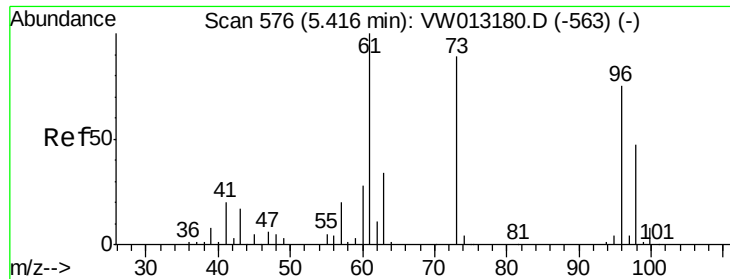
MMDadoda
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#20
Methylene Chloride
Concen: 21.640 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion: 84 Resp: 60283
Ion Ratio Lower Upper
84 100
49 117.3 97.6 146.4
51 38.9 30.2 45.2
86 60.1 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 20.815 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion: 96 Resp: 57497

Ion Ratio Lower Upper

96 100

61 134.5 106.6 159.8

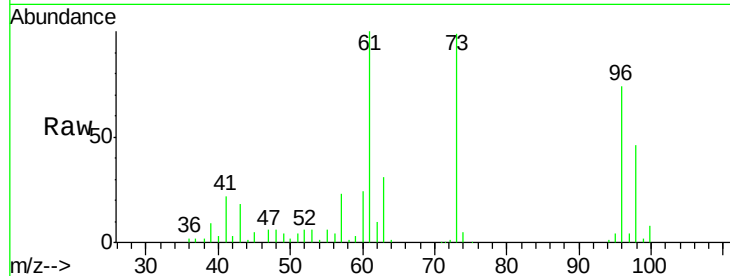
98 62.5 49.8 74.8

Manual Integrations

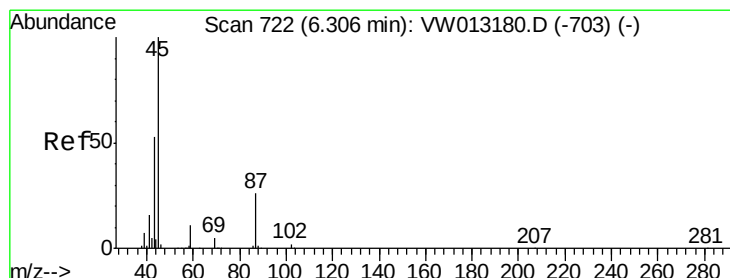
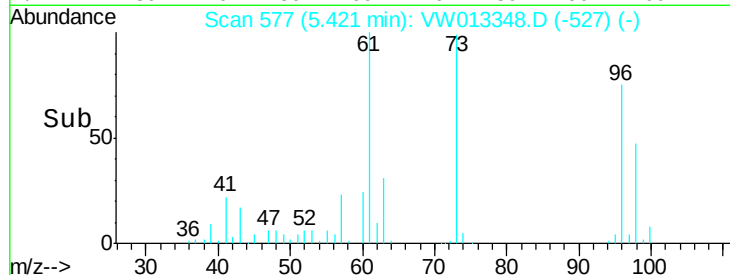
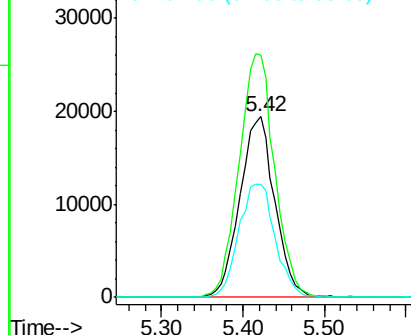
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Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 20.662 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion: 45 Resp: 159809

Ion Ratio Lower Upper

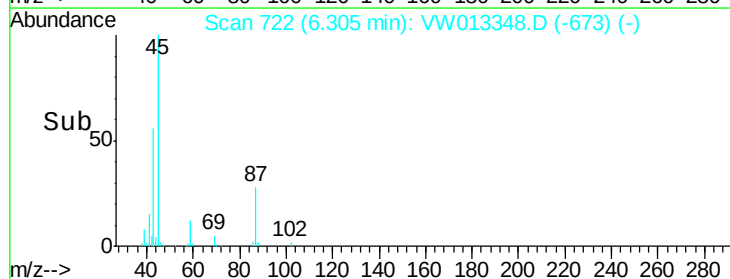
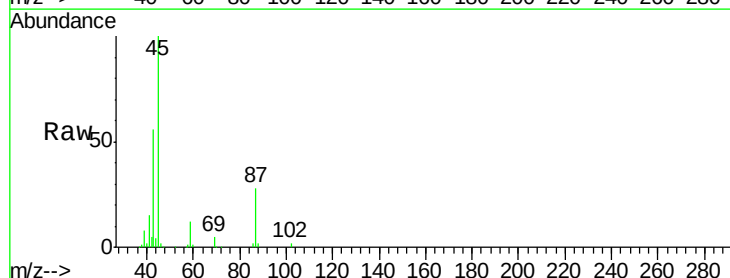
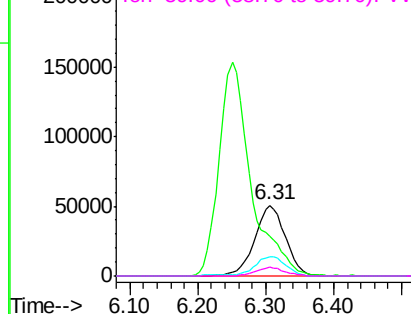
45 100

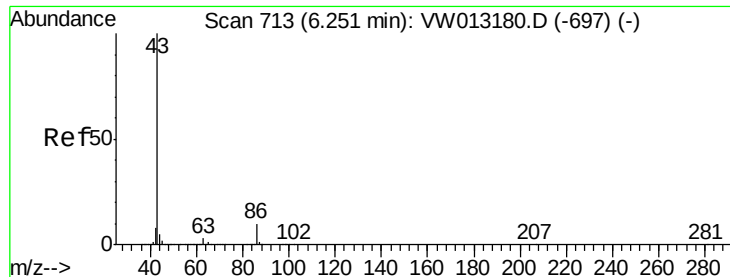
43 55.4 42.4 63.6

87 27.5 20.4 30.6

59 12.1 8.8 13.2

Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 109.415 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion: 43 Resp: 502057

Ion Ratio Lower Upper

43 100

86 11.4

8.3

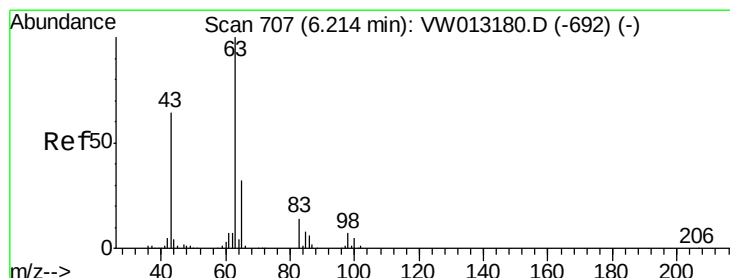
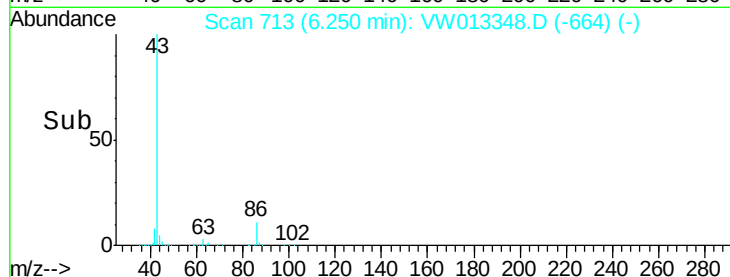
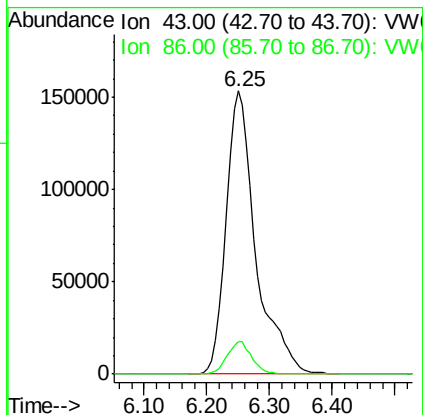
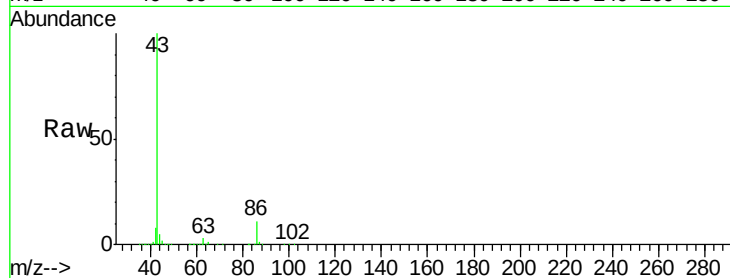
12.5

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#24

1,1-Dichloroethane

Concen: 20.765 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion: 63 Resp: 96916

Ion Ratio Lower Upper

63 100

98 8.5

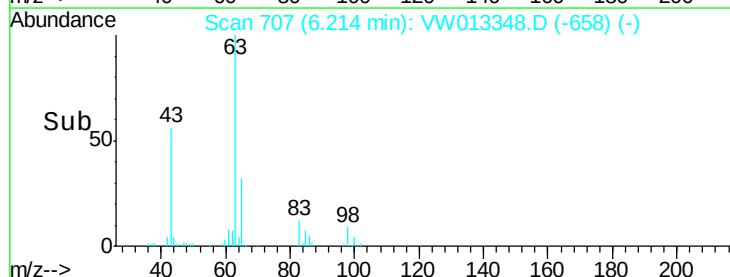
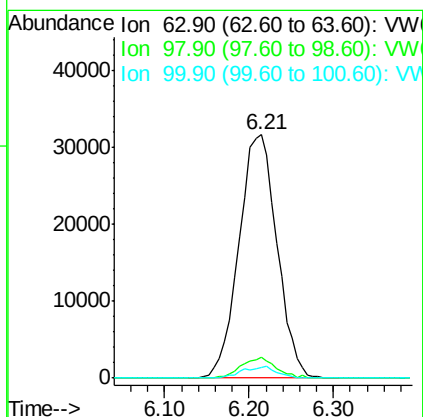
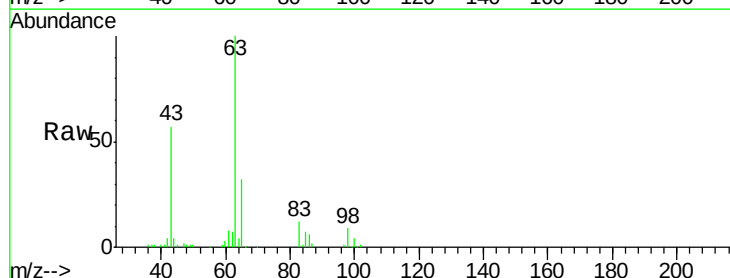
3.5

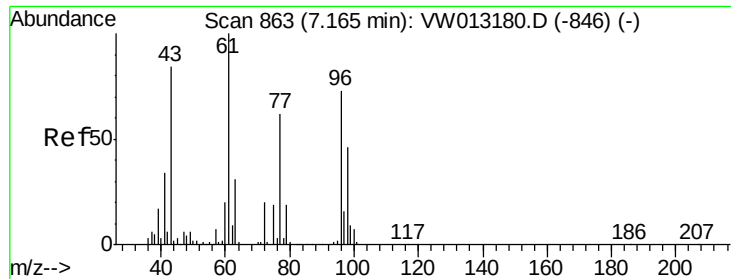
10.5

100 4.2

2.4

7.1





#25

2-Butanone

Concen: 128.813 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampled :

VW0930SBS01

Tot Ion: 43 Resp: 97875

Ion Ratio Lower Upper

43 100

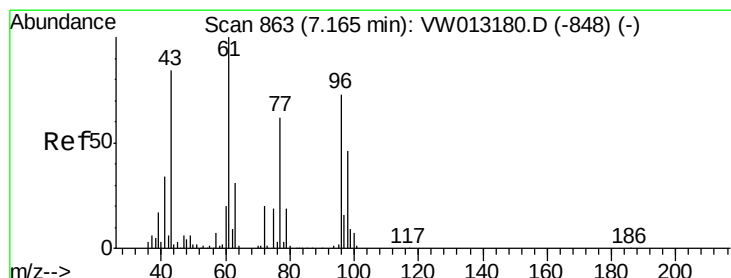
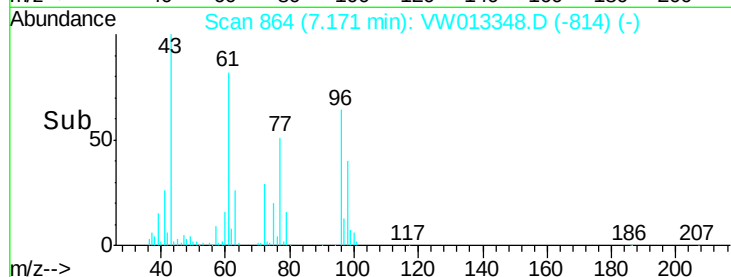
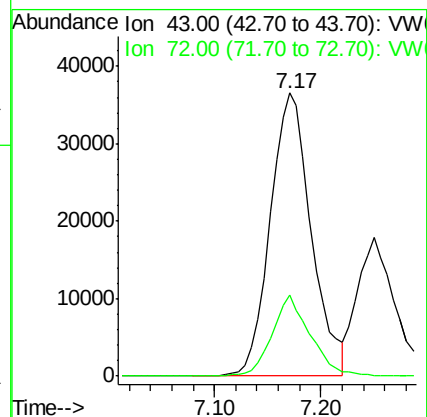
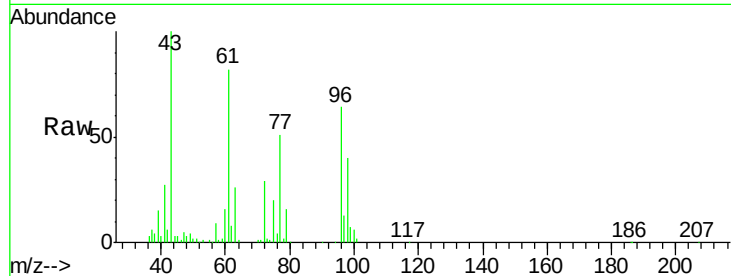
72 28.6 19.4 29.0

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#26

2,2-Dichloropropane

Concen: 19.272 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013348.D

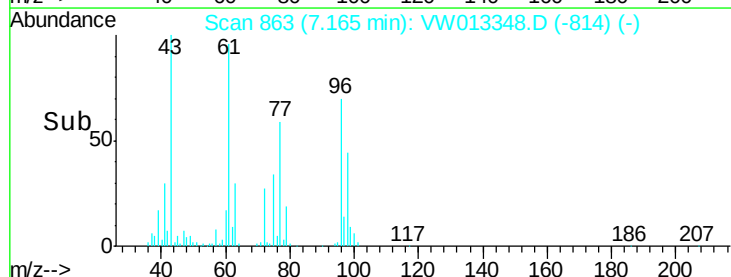
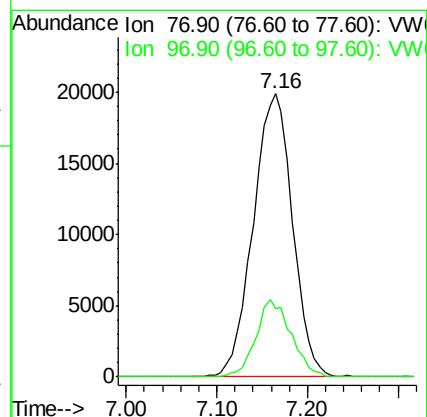
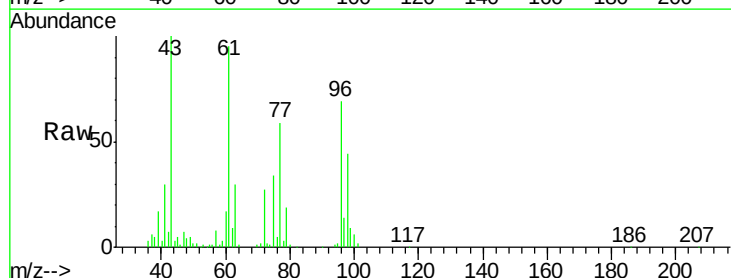
Acq: 30 Sep 2019 23:30

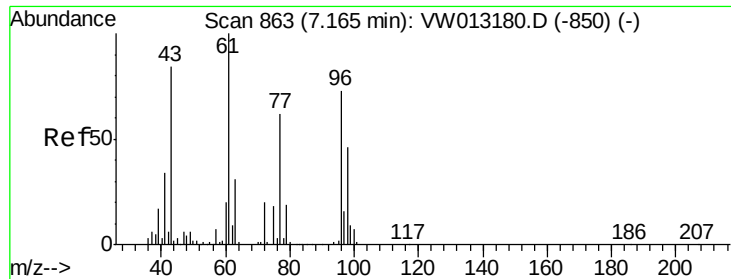
Tgt Ion: 77 Resp: 59537

Ion Ratio Lower Upper

77 100

97 24.4 11.8 35.4





#27

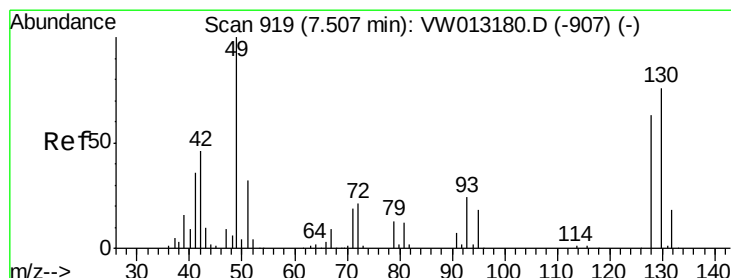
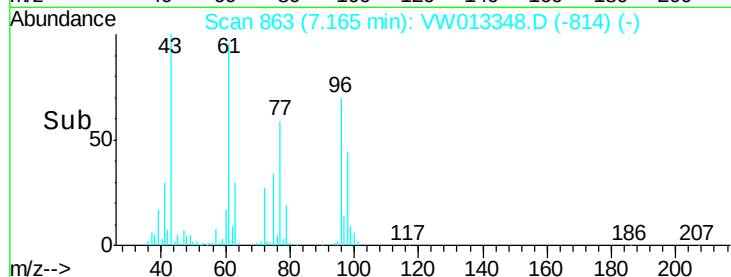
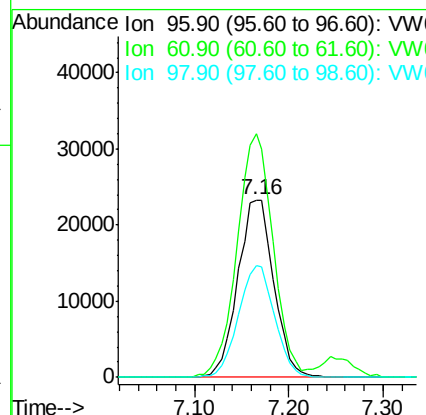
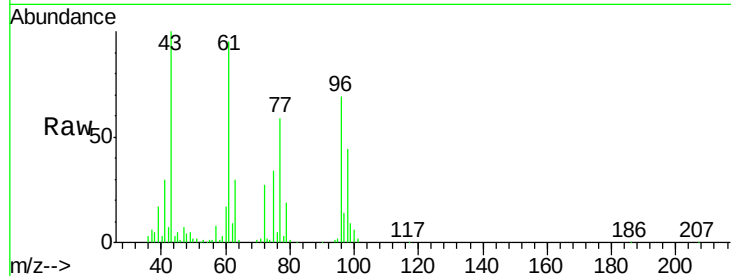
cis-1,2-Dichloroethene
 Concen: 21.310 ug/l
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.4	0.0	282.4
98	63.2	0.0	128.2

Manual Integrations
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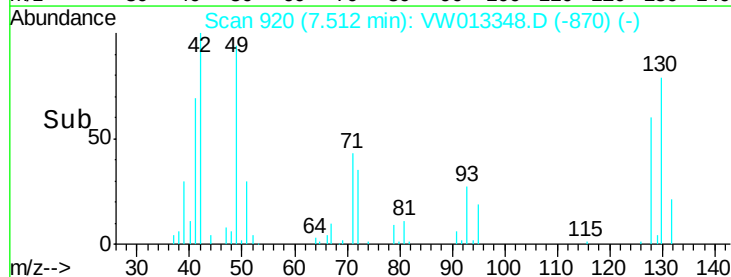
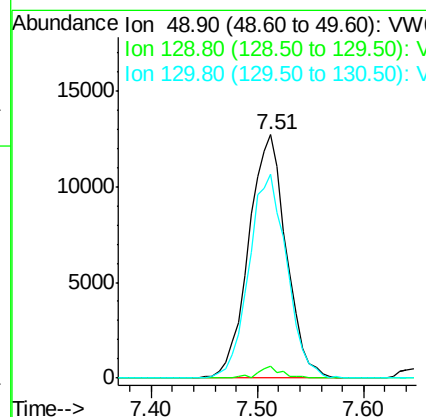
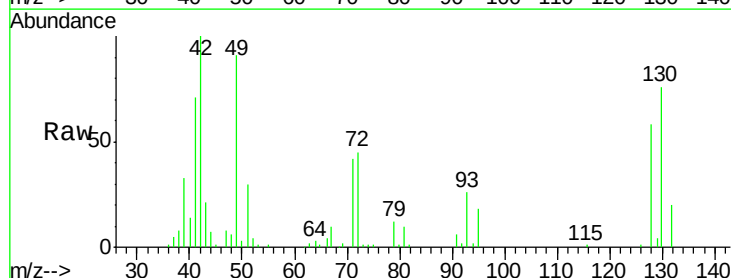
MMDadoda
 10/1/2019 11:32:58 AM

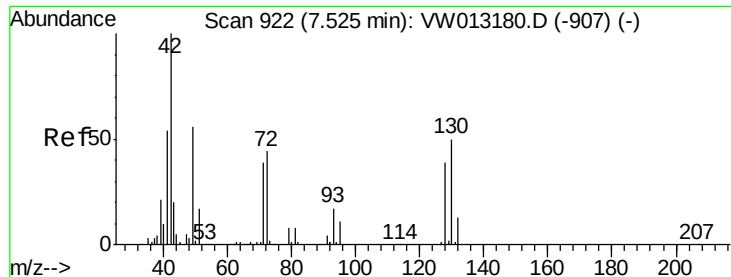


#28

Bromochloromethane
 Concen: 17.516 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	1.0#
130	84.3	63.4	95.2





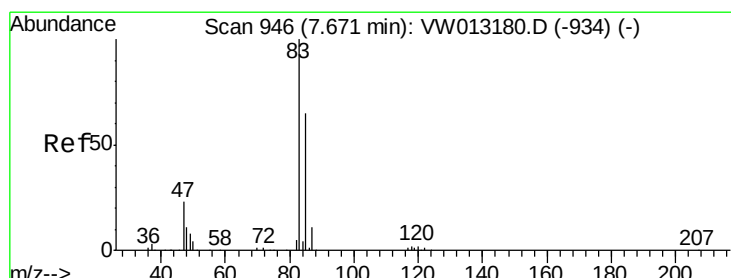
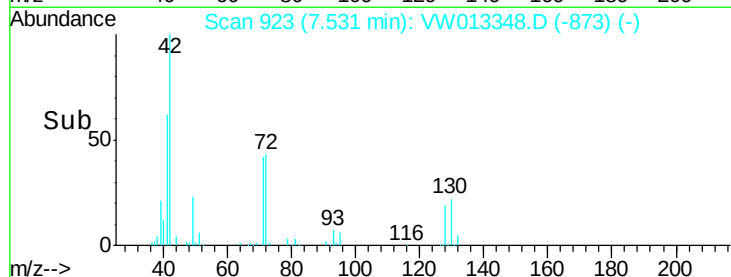
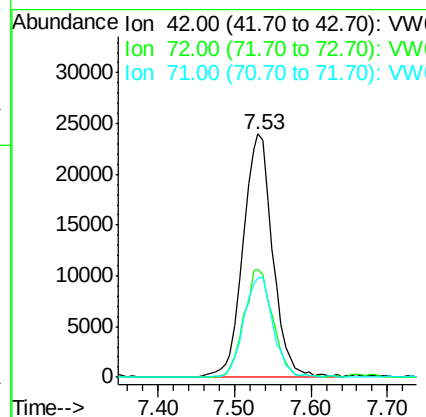
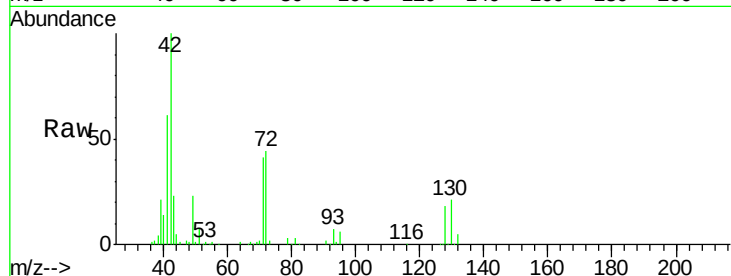
#29
Tetrahydrofuran
Concen: 138.270 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	33.9	50.9
71	40.8	31.9	47.9

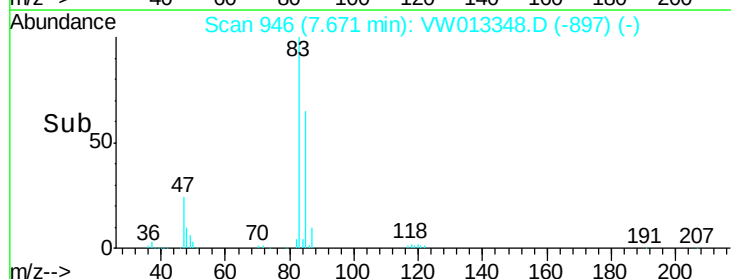
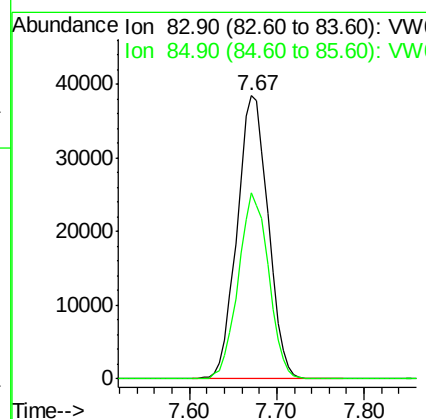
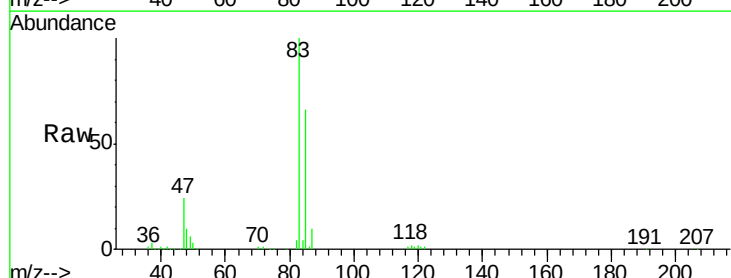
Manual Integrations
APPROVED

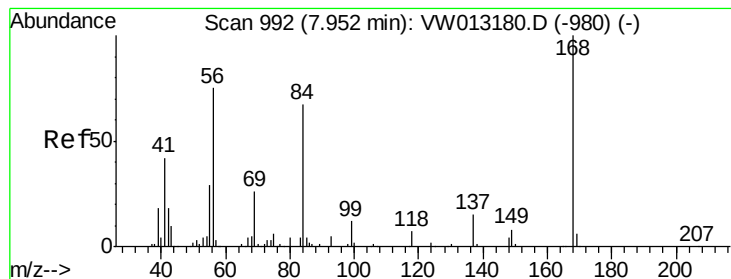
MMDadoda
10/1/2019 11:32:58 AM



#30
Chloroform
Concen: 20.783 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.3	78.5





#31

Cyclohexane

Concen: 21.365 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

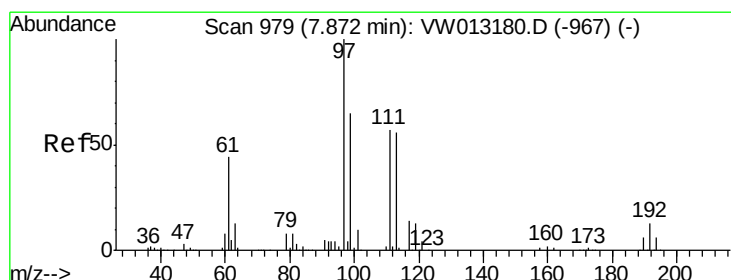
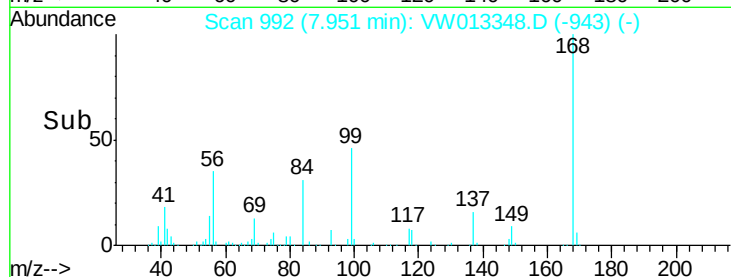
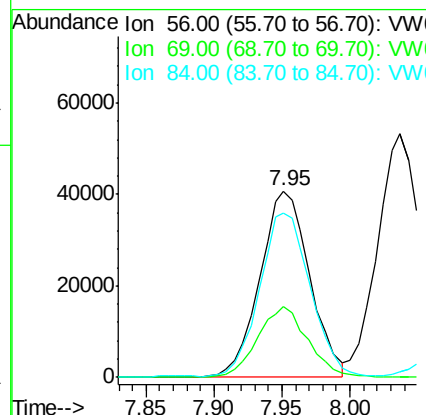
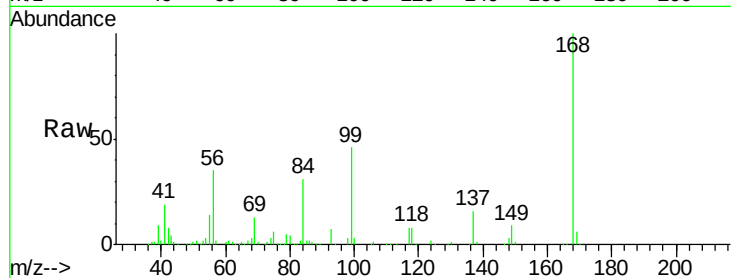
ClientSampleId :

VW0930SBS01

Tot Ion:	56	Resp:	103942
Ion Ratio	Lower	Upper	
56	100		
69	38.1	27.2	40.8
84	87.7	70.8	106.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.500 ug/l

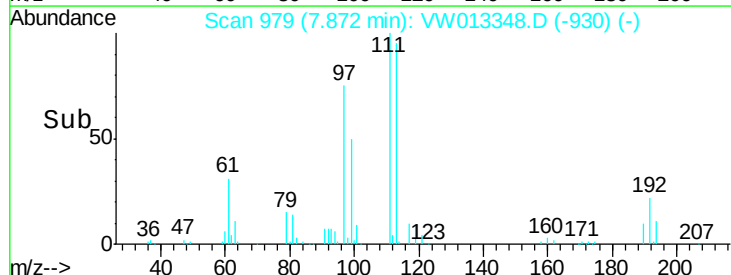
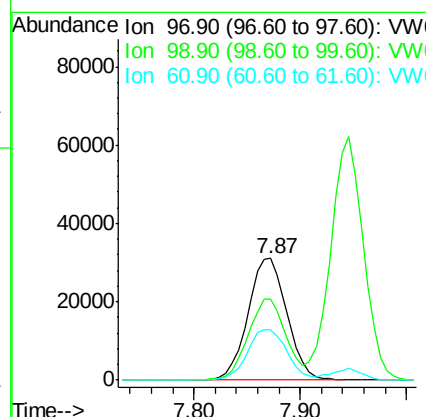
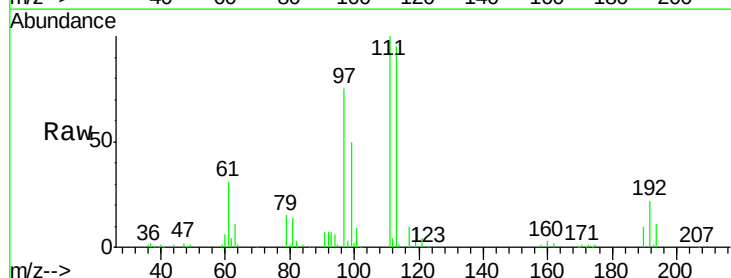
RT: 7.87 min Scan# 979

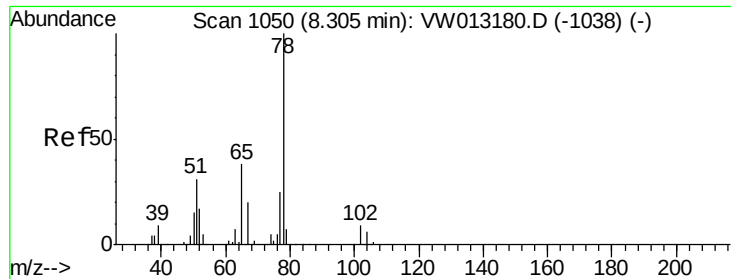
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	97	Resp:	79568
Ion Ratio	Lower	Upper	
97	100		
99	64.9	51.7	77.5
61	41.9	34.6	51.8





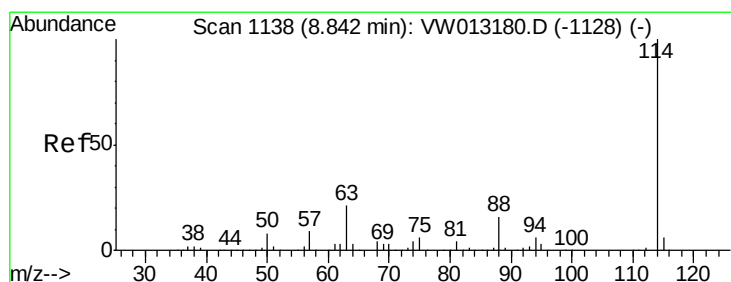
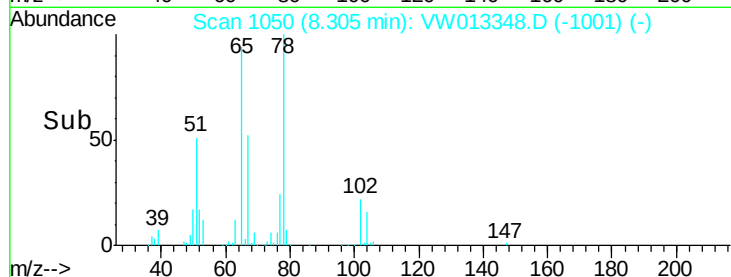
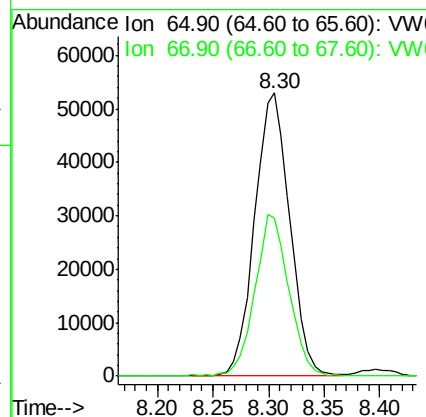
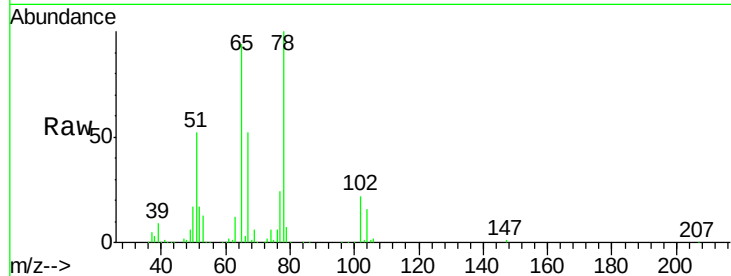
#33
 1,2-Dichloroethane-d4
 Concen: 51.758 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.2	0.0	106.2	

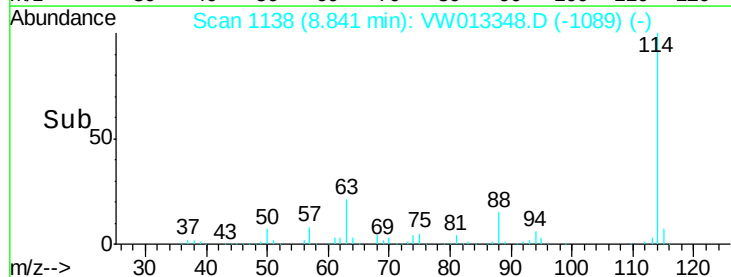
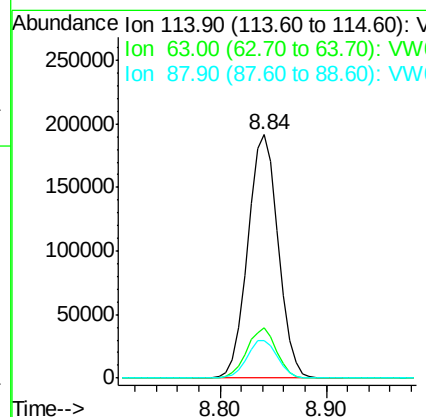
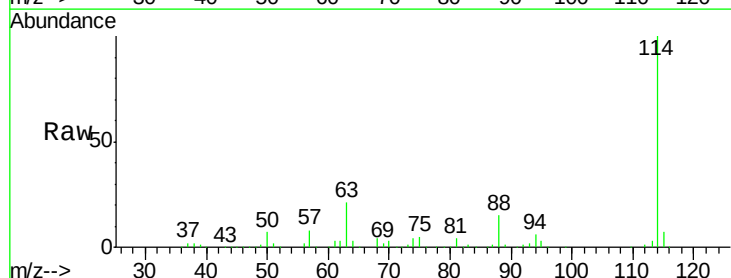
Manual Integrations
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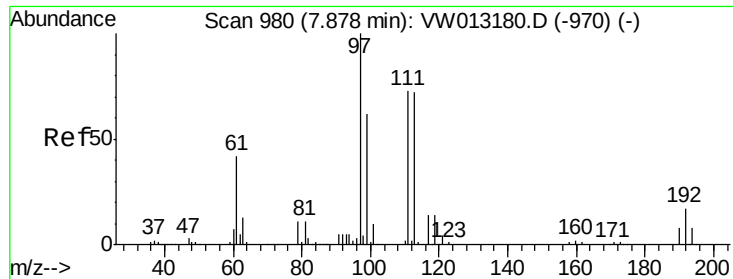
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 10/1/2019 11:32:58 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.5	0.0	41.4	
88	15.3	0.0	32.0	





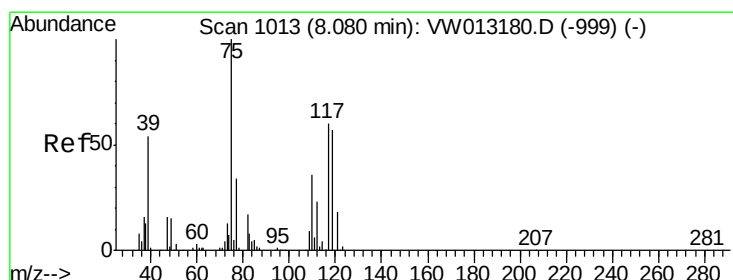
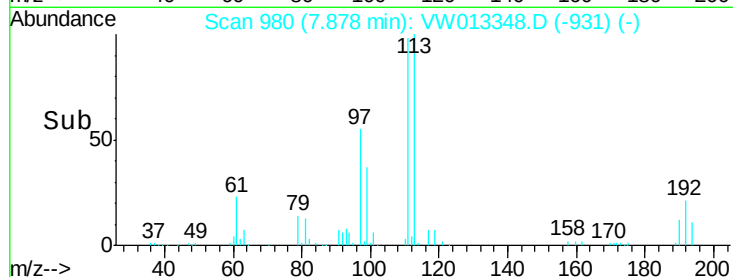
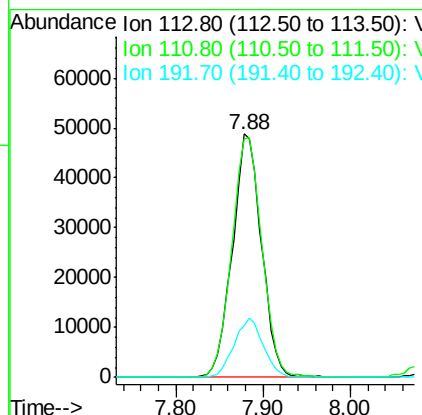
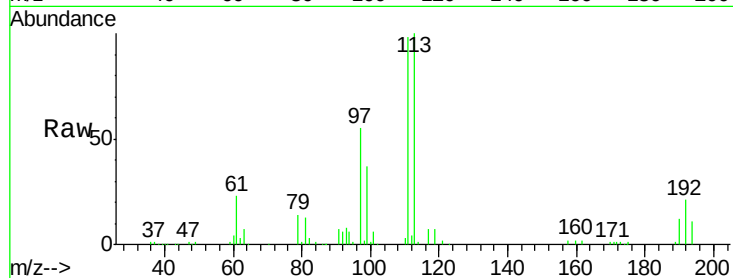
#35
 Dibromofluoromethane
 Concen: 53.400 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	113009		
111	102.5	81.9	122.9	
192	24.1	19.1	28.7	

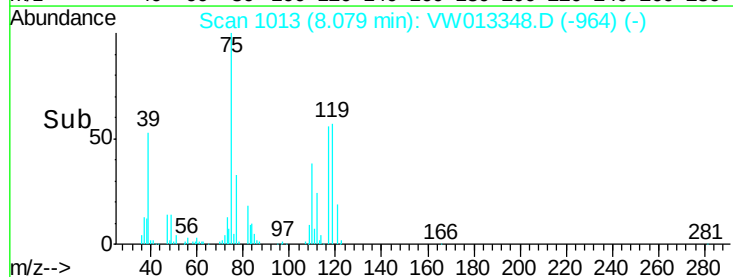
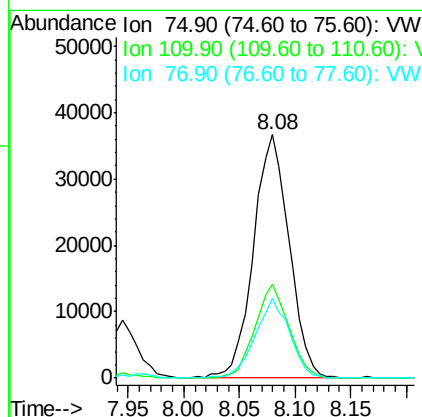
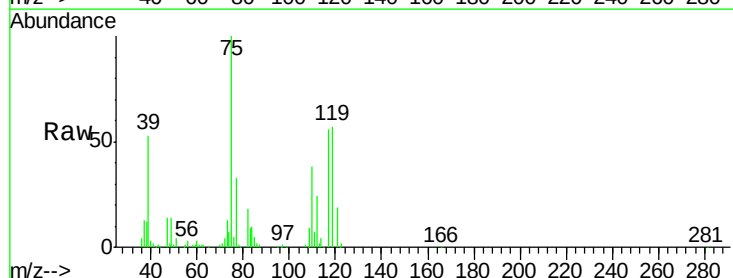
Manual Integrations
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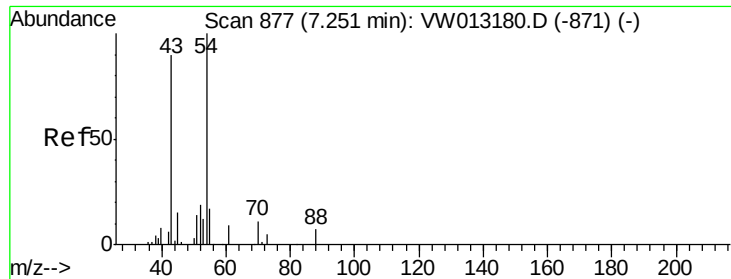
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 22.050 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	82178		
110	36.6	18.1	54.3	
77	31.6	25.8	38.6	





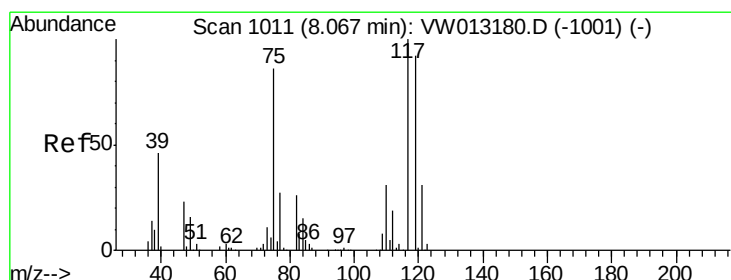
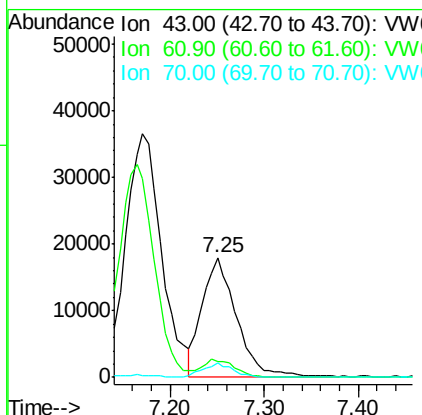
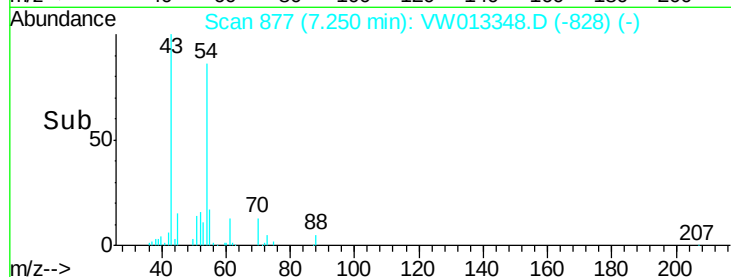
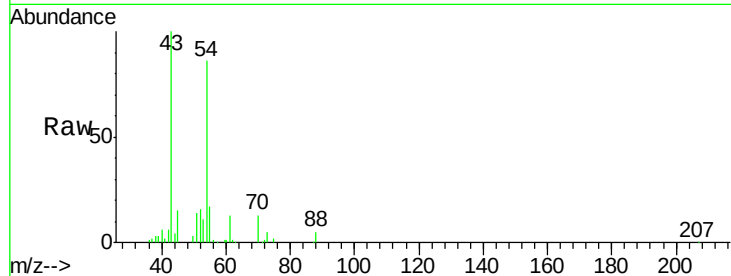
#37
Ethyl Acetate
Concen: 28.432 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.9	16.3
70	10.7	8.2	12.2

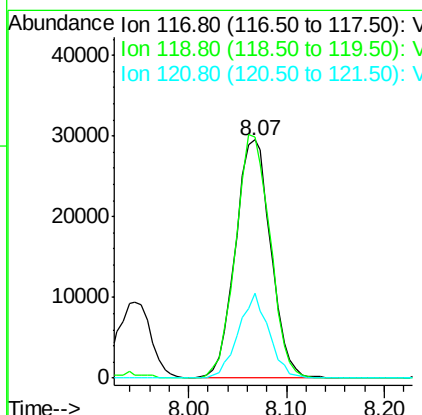
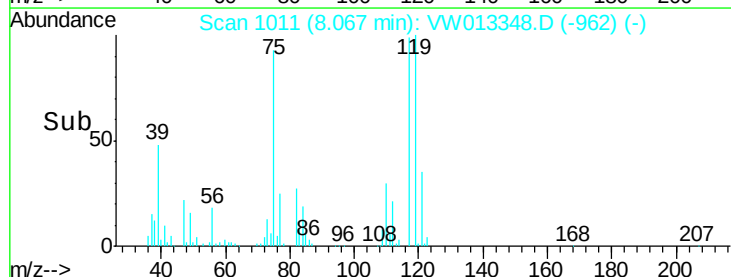
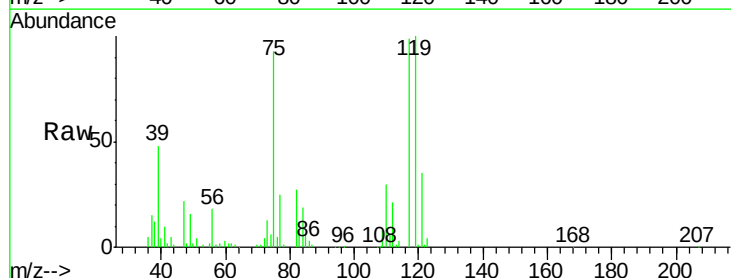
Manual Integrations
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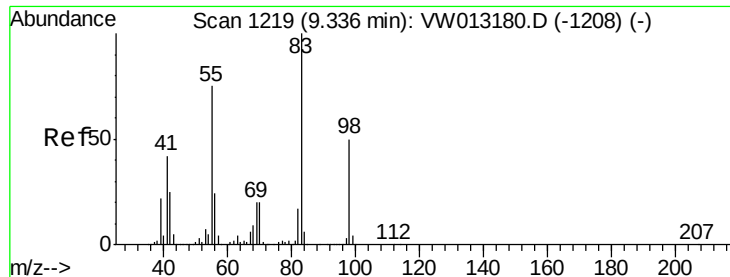
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#38
Carbon Tetrachloride
Concen: 22.253 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	101.4	73.5	110.3
121	35.5	25.0	37.6





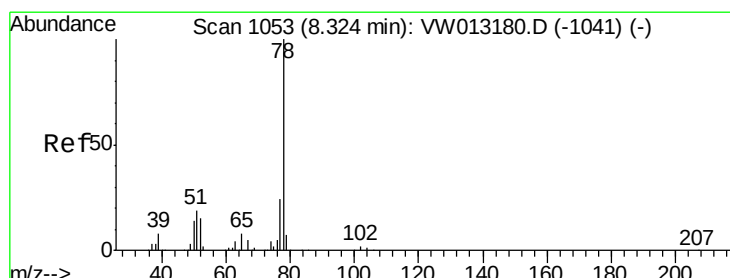
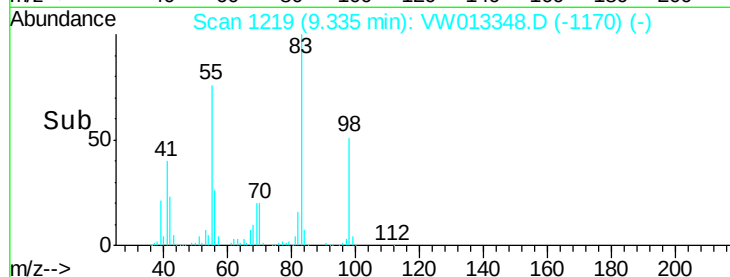
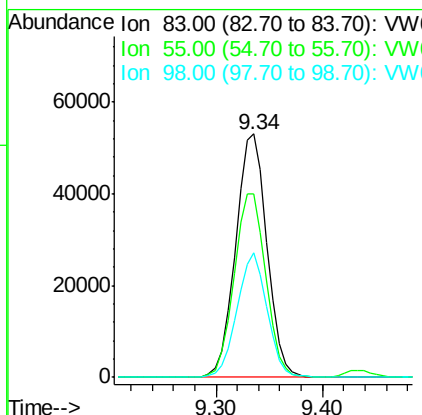
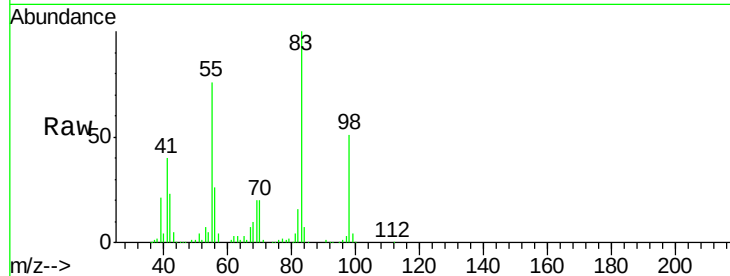
#39
Methylvlcyclohexane
Concen: 22.884 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	109599		
55	75.5		60.4	90.6
98	51.1		40.0	60.0

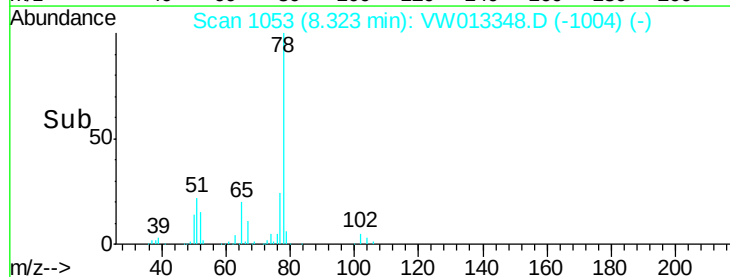
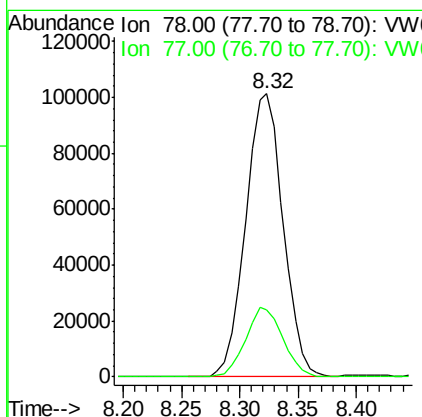
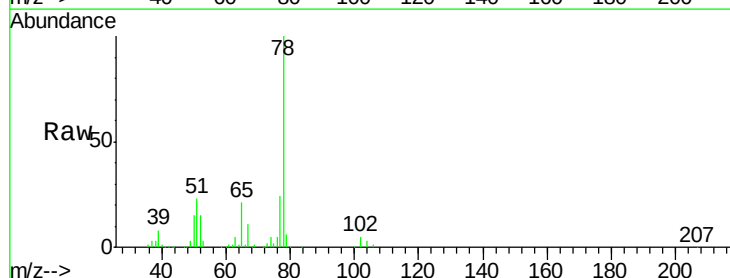
Manual Integrations
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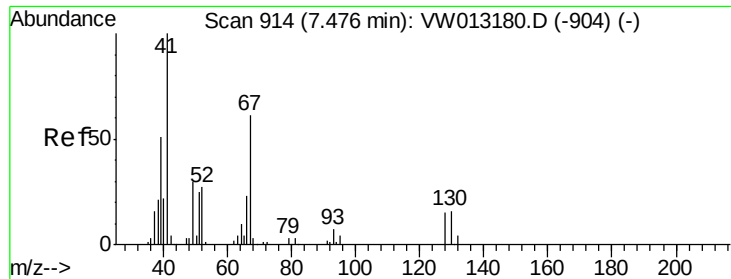
MMDadoda
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#40
Benzene
Concen: 21.816 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	226788		
77	23.9		19.1	28.7





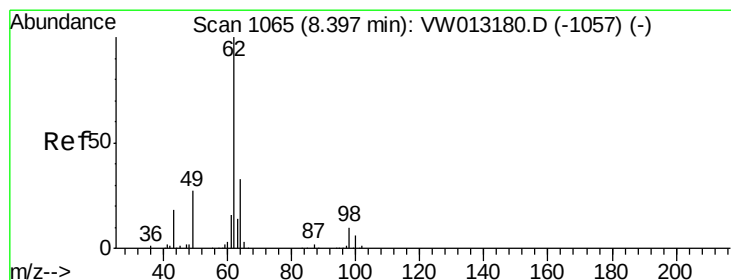
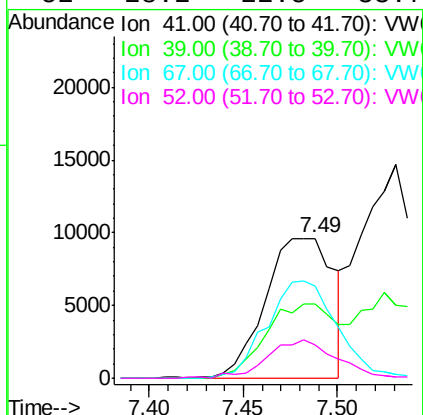
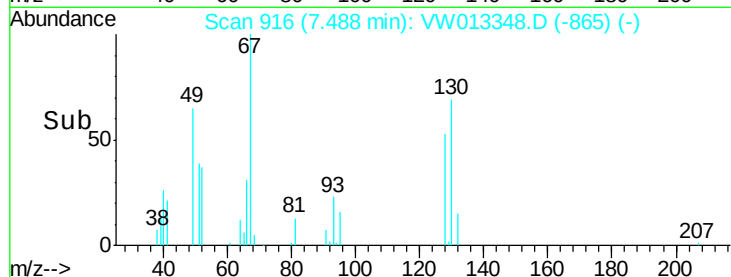
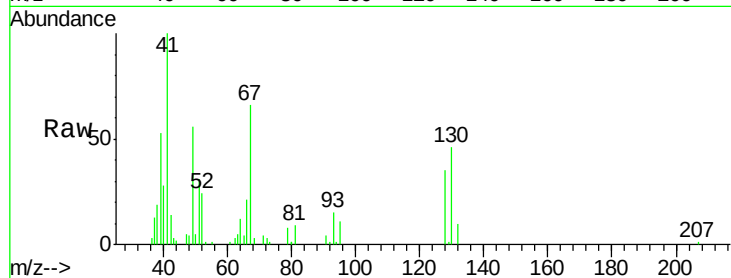
#41
Methacrylonitrile
Concen: 25.663 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.5	45.9	68.9	
67	72.0	54.5	81.7	
52	28.2	22.5	33.7	

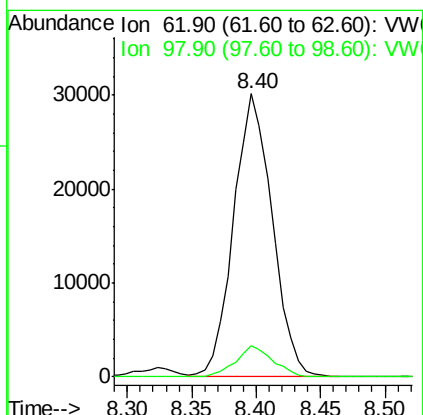
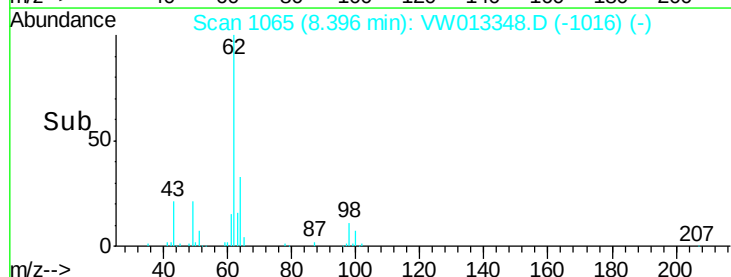
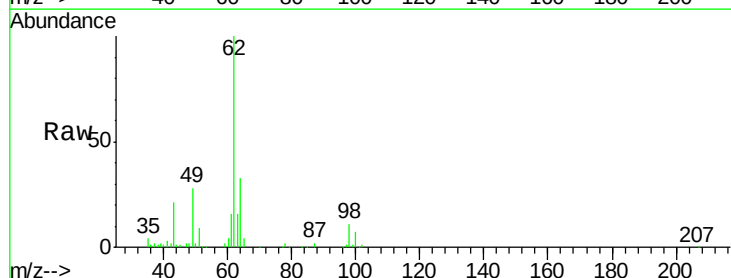
Manual Integrations
APPROVED

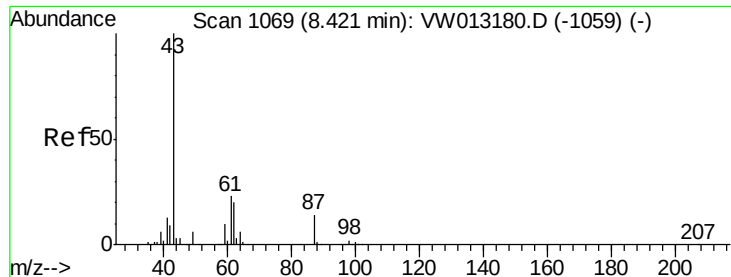
MMDadoda
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#42
1,2-Dichloroethane
Concen: 22.467 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.6	0.0	20.6	





#43

Isopropyl Acetate

Concen: 24.916 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

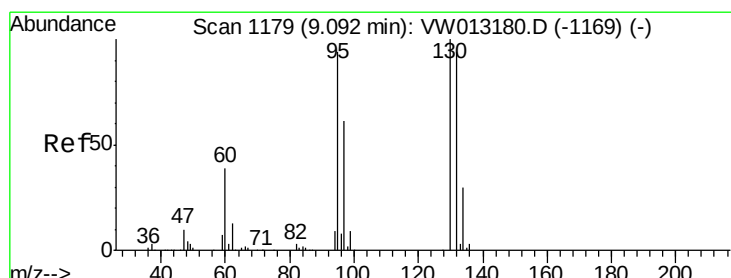
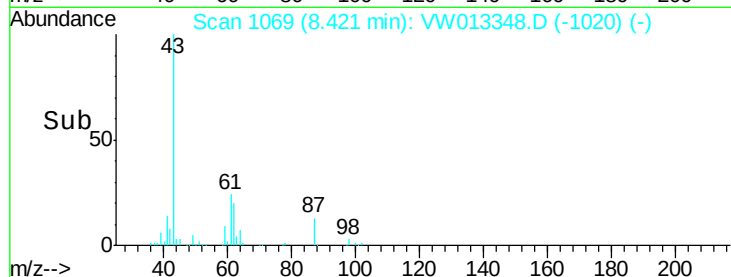
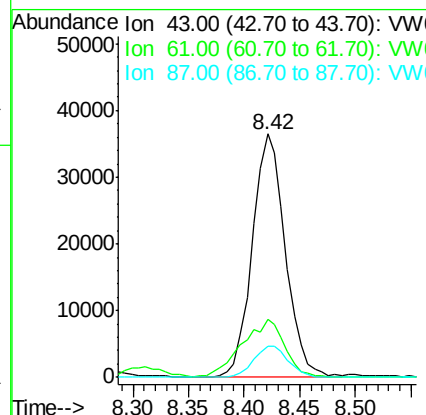
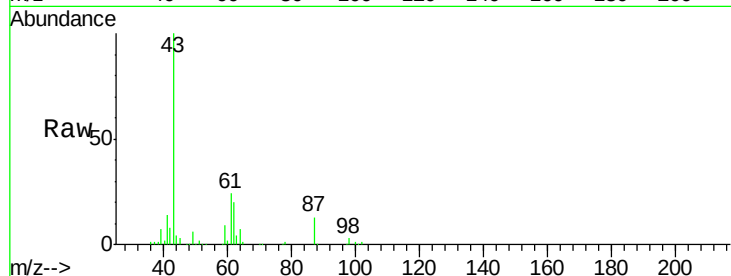
ClientSampleId :

VW0930SBS01

Tot Ion:	43	Resp:	75639
Ion	Ratio	Lower	Upper
43	100		
61	30.6	25.5	38.3
87	13.6	11.0	16.4

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#44

Trichloroethene

Concen: 22.189 ug/l

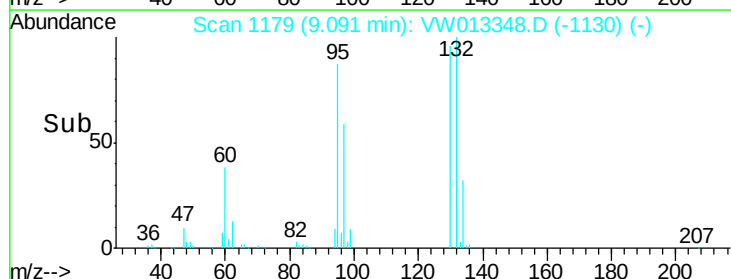
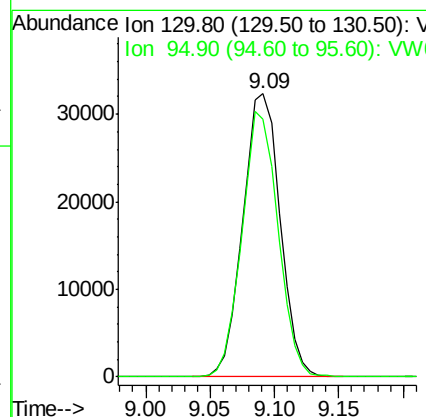
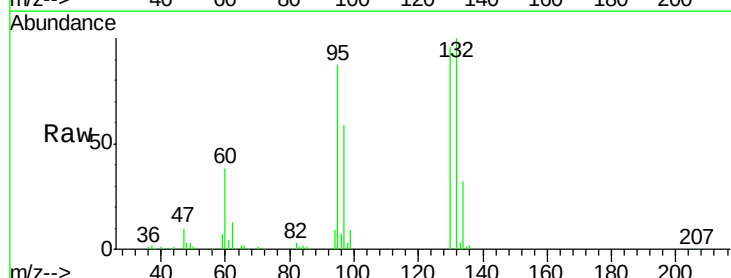
RT: 9.09 min Scan# 1179

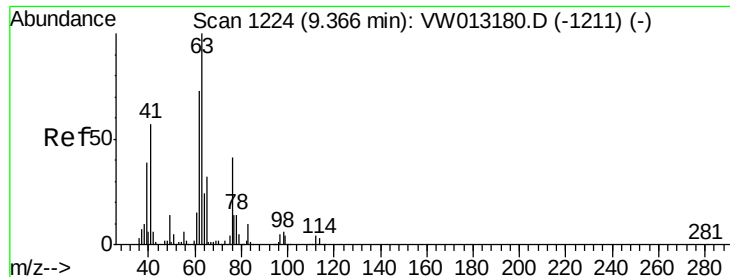
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	130	Resp:	64718
Ion	Ratio	Lower	Upper
130	100		
95	91.2	0.0	188.0





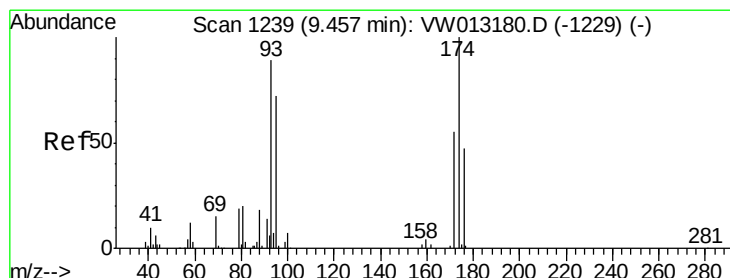
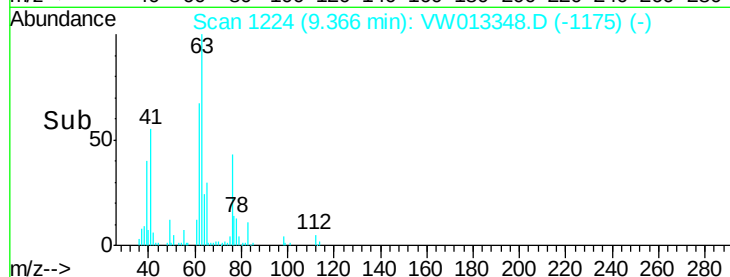
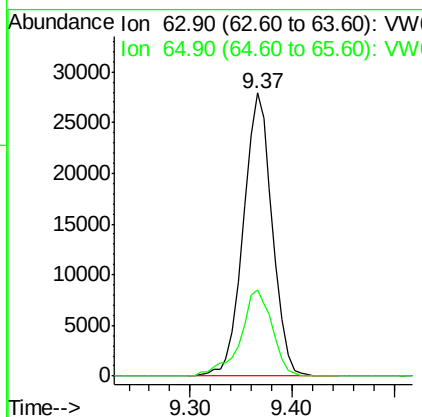
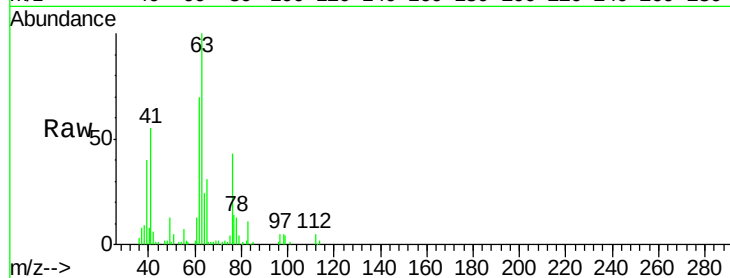
#45
 1,2-Dichloropropane
 Concen: 21.545 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	25.3	37.9

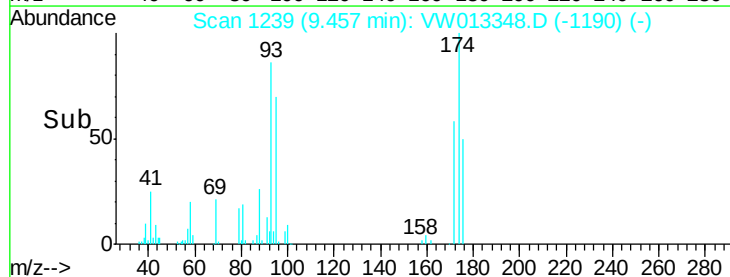
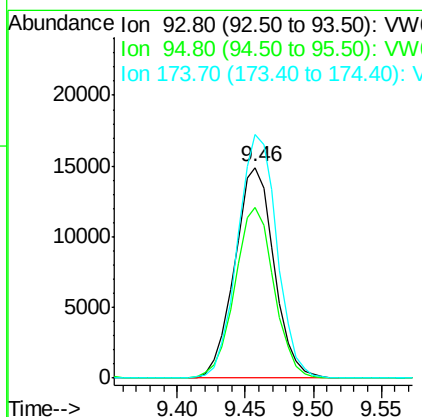
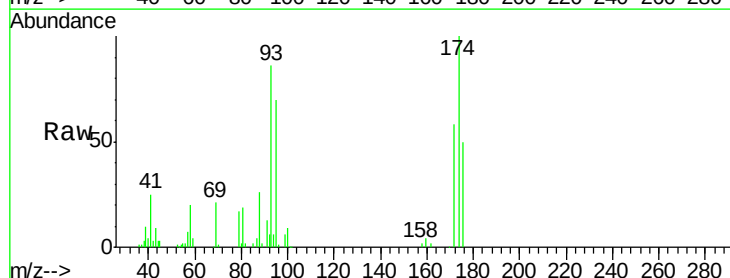
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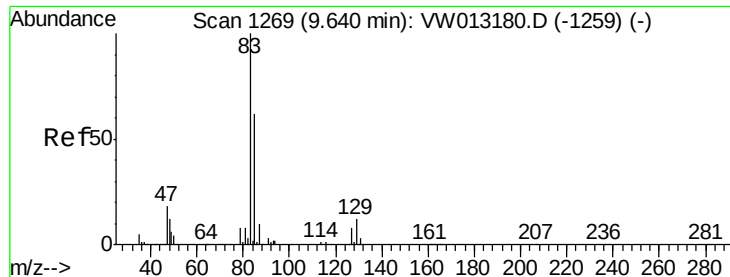
MMDadoda
 10/1/2019 11:32:58 AM



#46
 Dibromomethane
 Concen: 24.418 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.3	66.4	99.6
174	115.5	93.0	139.6





#47

Bromodichloromethane

Concen: 21.372 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

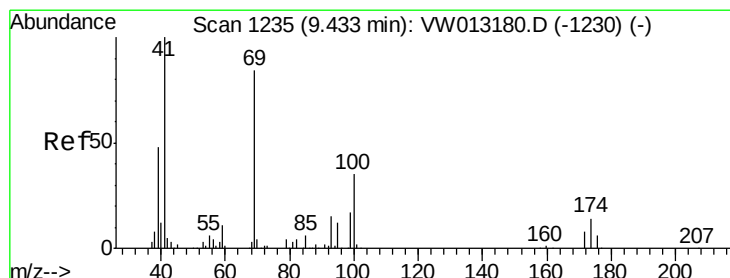
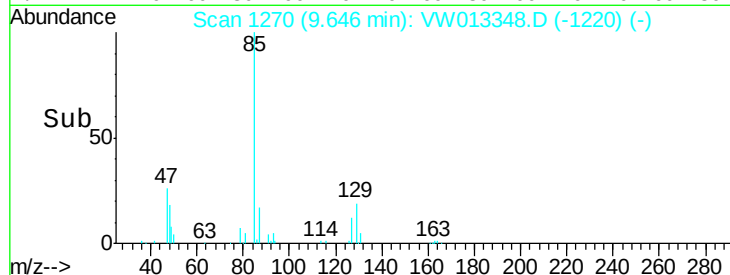
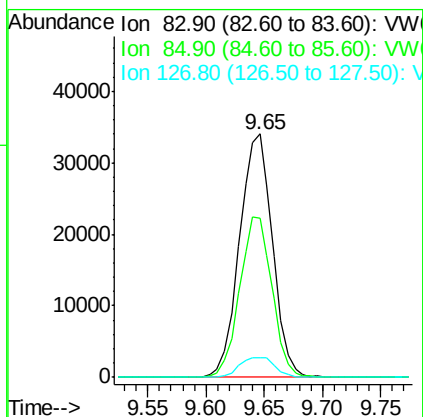
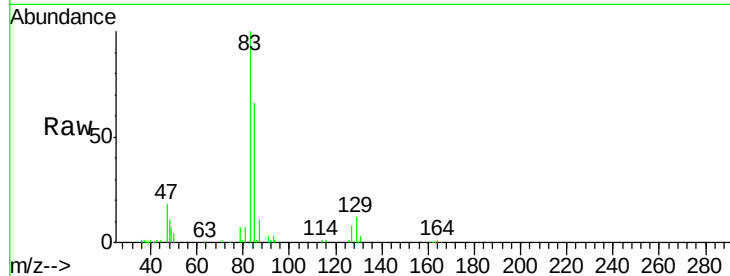
ClientSampleId :

VW0930SBS01

Tot Ion:	83	Resp:	67006
Ion	Ratio	Lower	Upper
83	100		
85	65.6	49.4	74.2
127	7.9	6.5	9.7

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#48

Methyl methacrylate

Concen: 27.635 ug/l

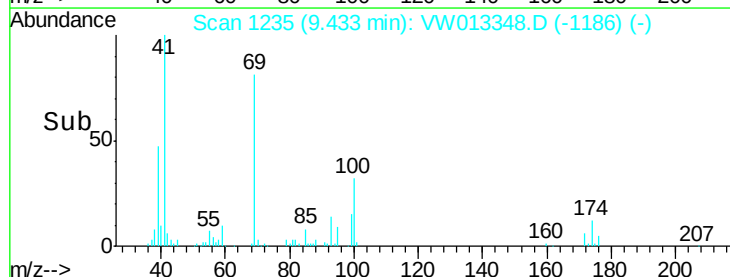
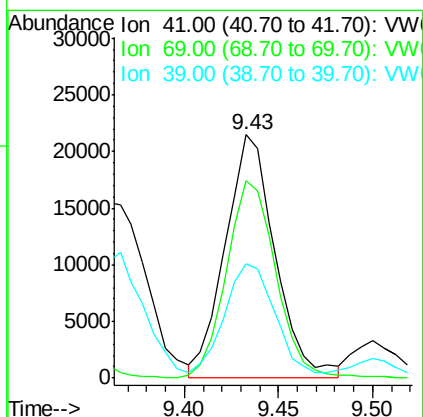
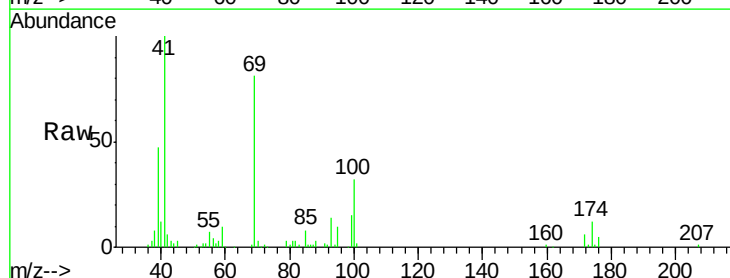
RT: 9.43 min Scan# 1235

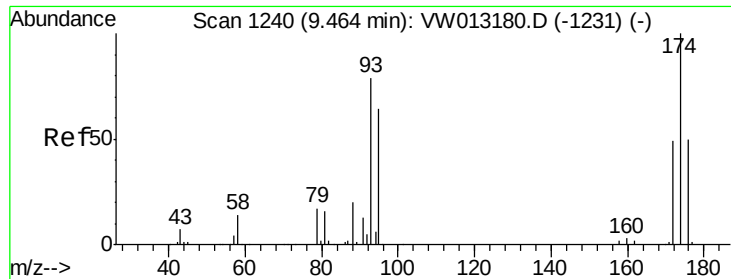
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	41	Resp:	39448
Ion	Ratio	Lower	Upper
41	100		
69	80.6	69.7	104.5
39	44.7	41.1	61.7





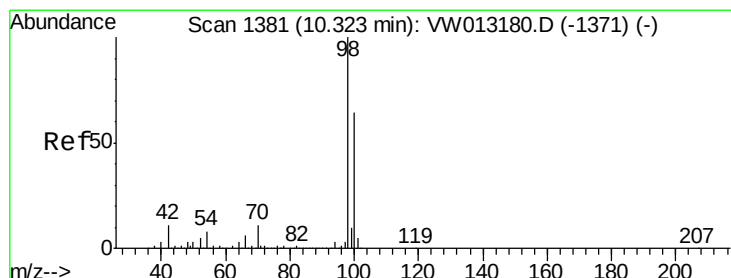
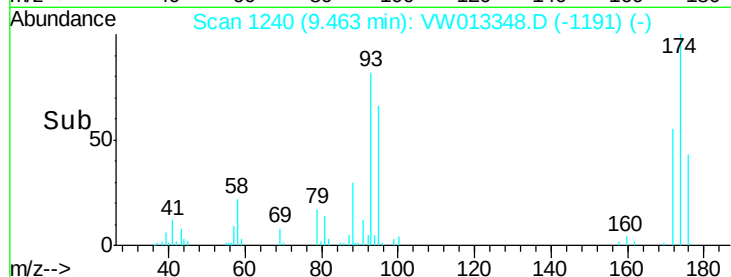
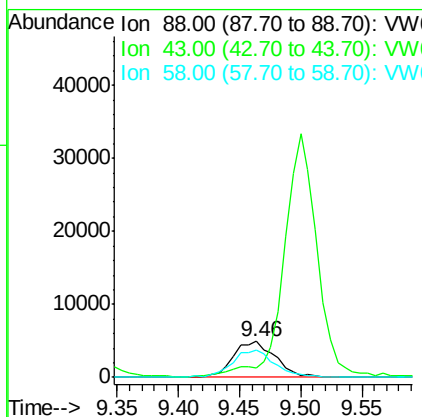
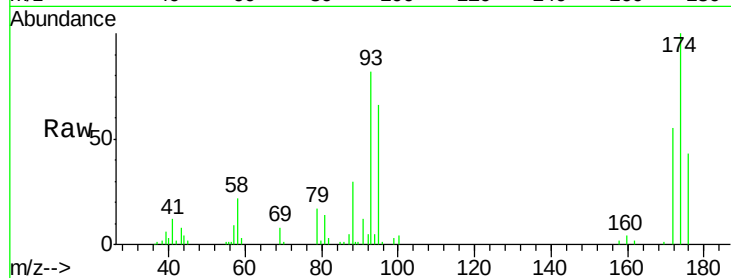
#49
1,4-Dioxane
Concen: 637.233 ug/l
RT: 9.46 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	88	Resp	11786
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	76.0	65.4	98.0

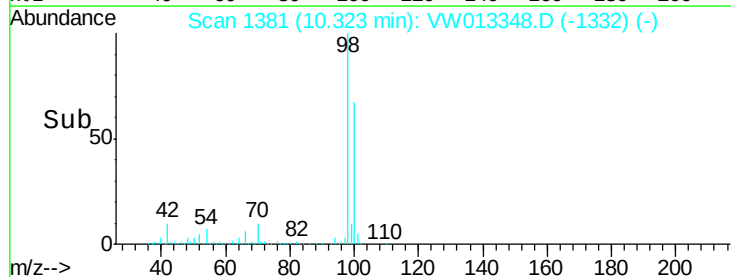
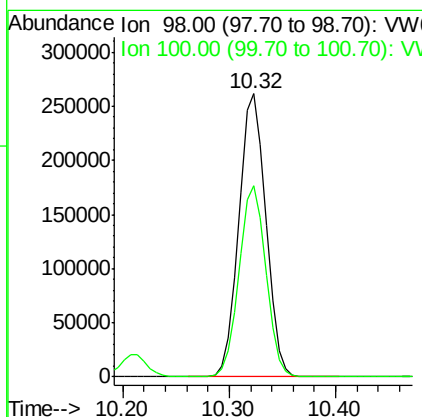
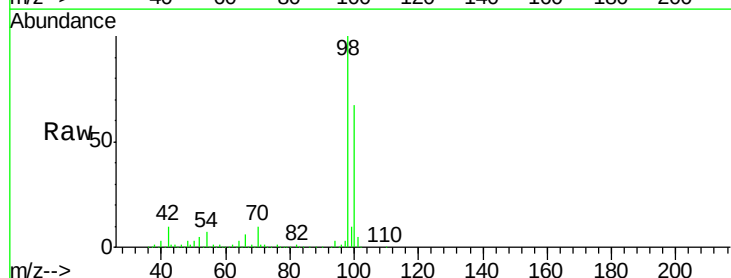
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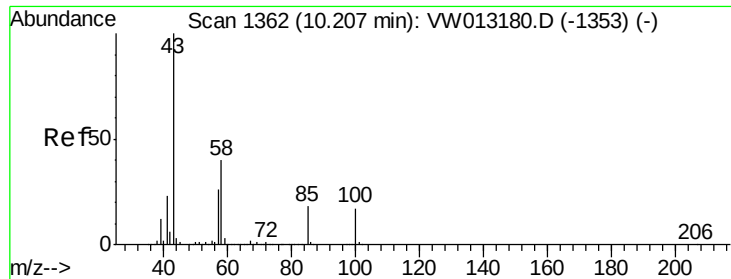
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#50
Toluene-d8
Concen: 52.918 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	98	Resp	468694
Ion	Ratio	Lower	Upper
98	100		
100	67.0	52.9	79.3





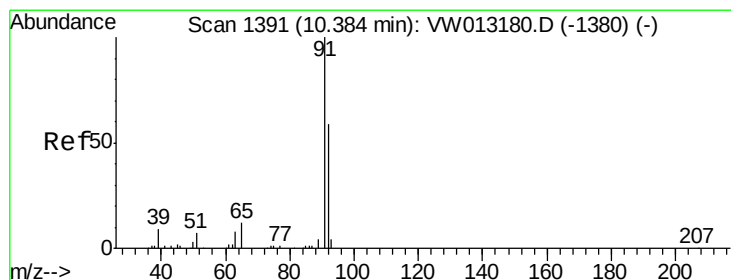
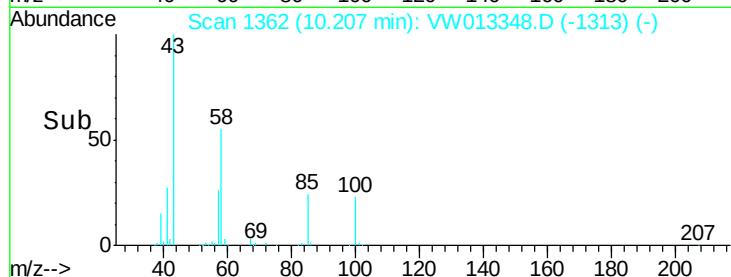
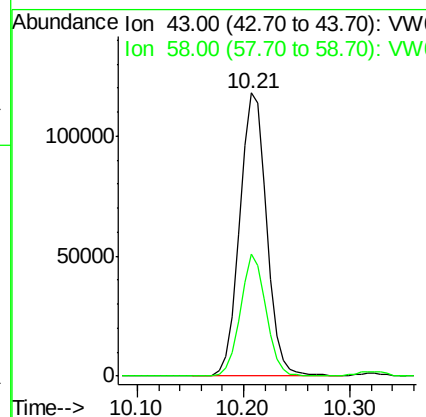
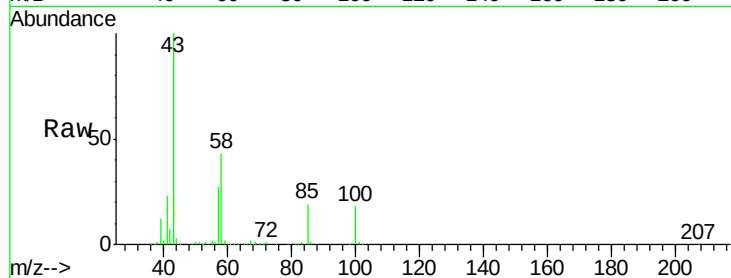
#51
 4-Methyl-2-Pentanone
 Concen: 137.675 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.0	31.7	47.5

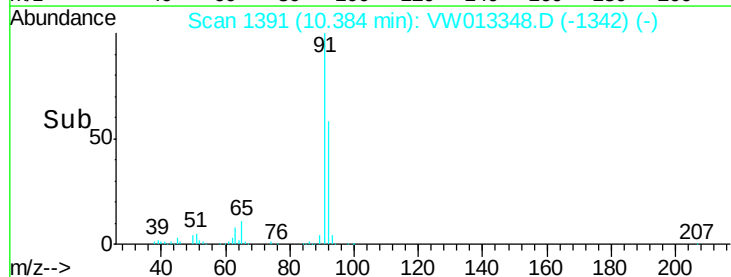
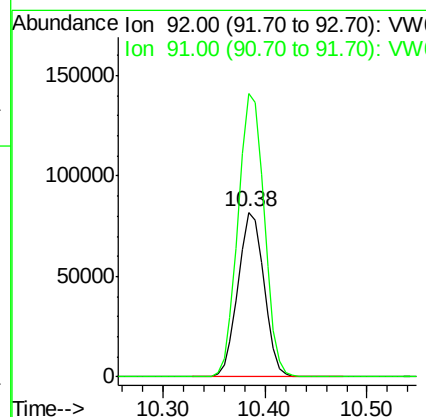
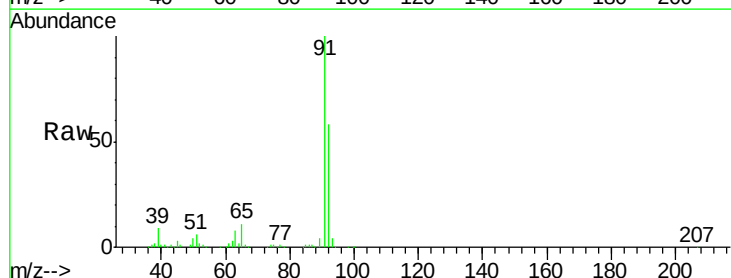
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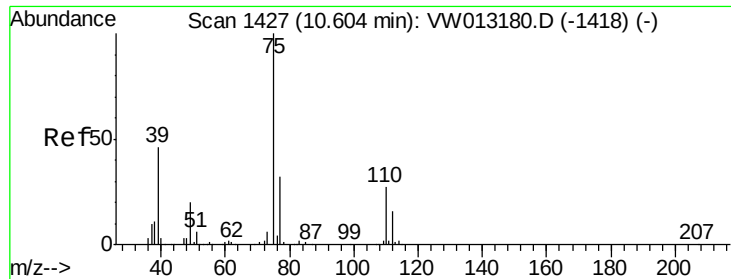
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#52
 Toluene
 Concen: 21.627 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.9	135.7	203.5





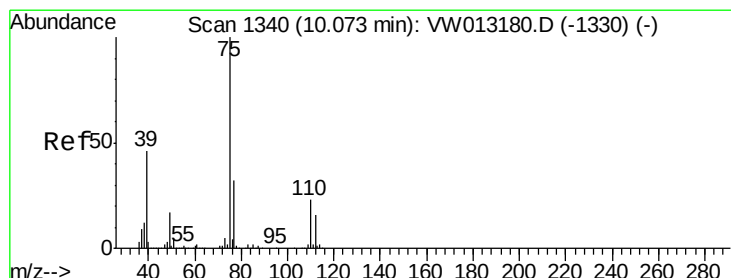
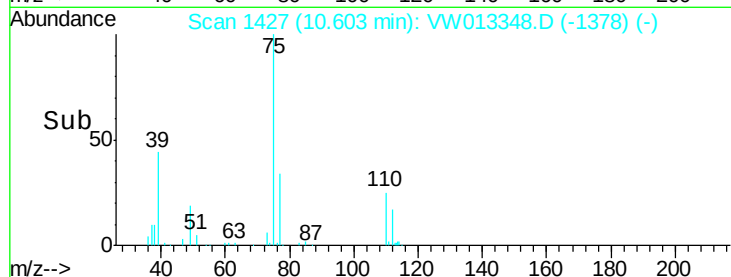
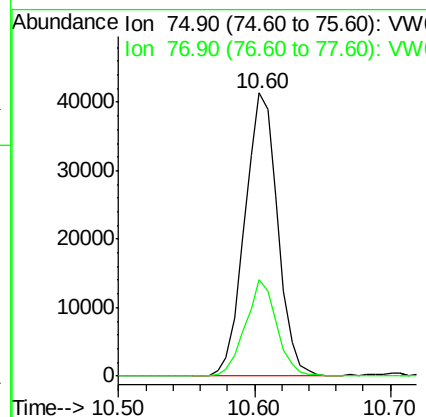
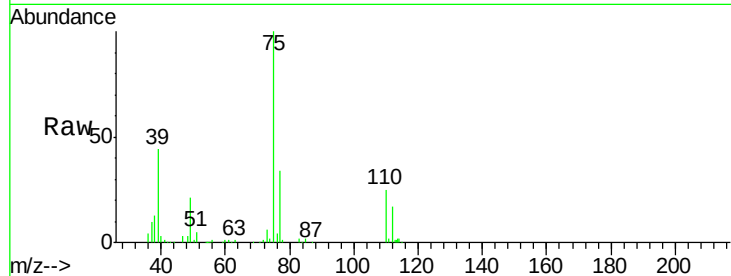
#53
 t-1,3-Dichloropropene
 Concen: 21.703 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.5	38.3

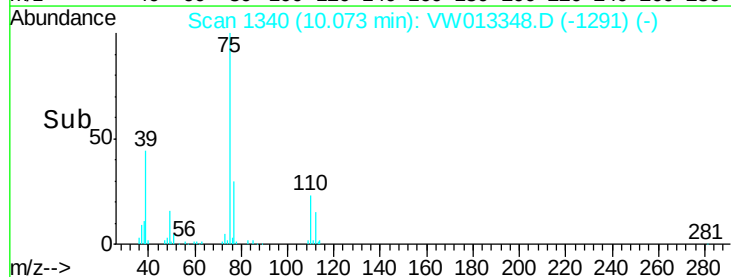
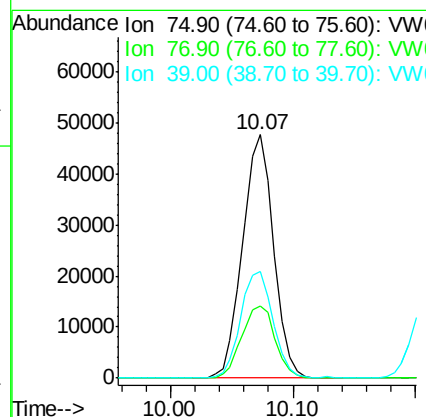
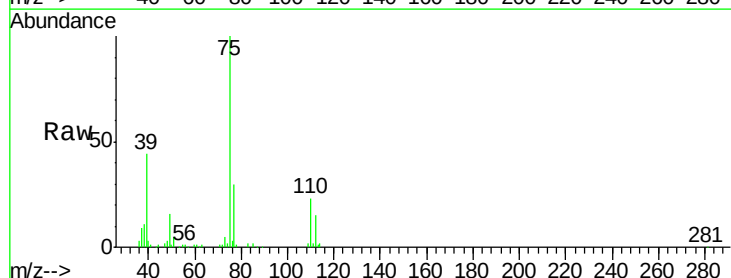
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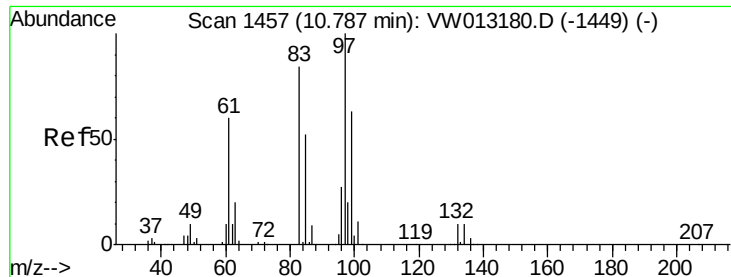
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#54
 cis-1,3-Dichloropropene
 Concen: 21.399 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.7	25.2	37.8
39	43.6	36.6	55.0





#55

1,1,2-Trichloroethane

Concen: 23.295 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

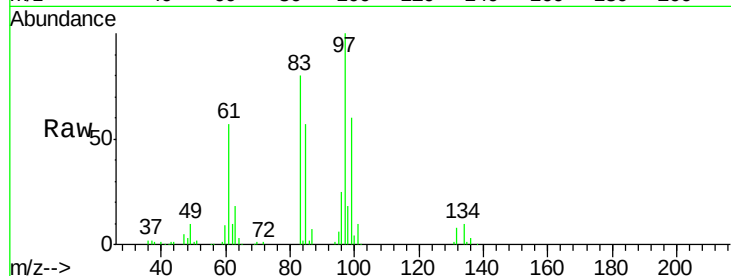
ClientSampleId :

VW0930SBS01

Tot Ion:	97	Resp:	42902
Ion	Ratio	Lower	Upper
97	100		
83	80.0	67.6	101.4
85	57.1	41.9	62.9
99	60.5	50.1	75.1

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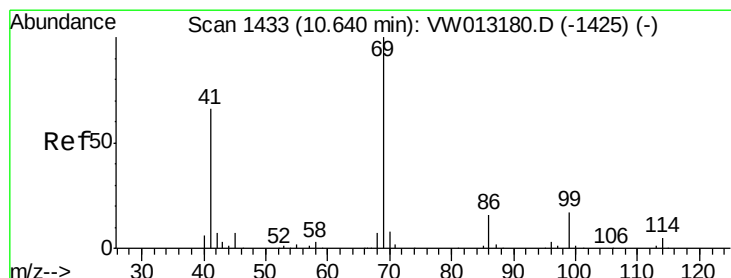
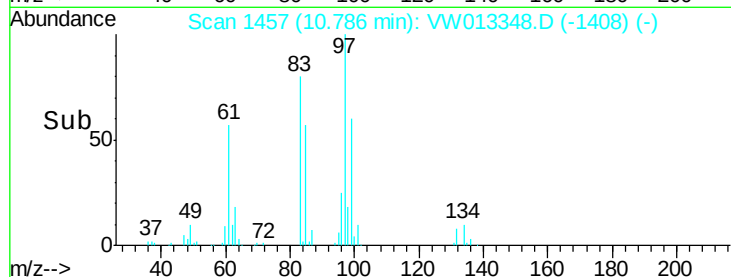
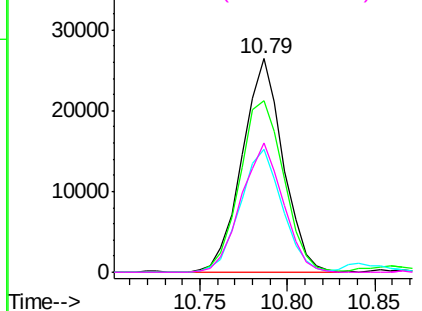
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 24.684 ug/l

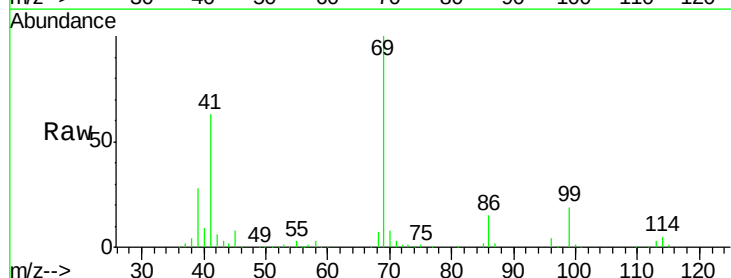
RT: 10.65 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	69	Resp:	59496
Ion	Ratio	Lower	Upper
69	100		
41	67.2	53.9	80.9
39	28.6	23.8	35.6

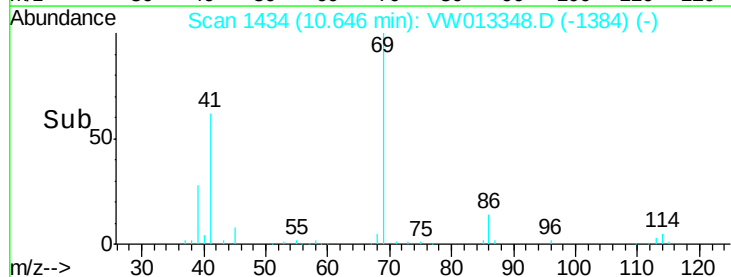
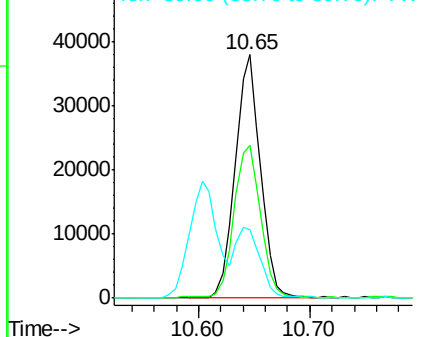


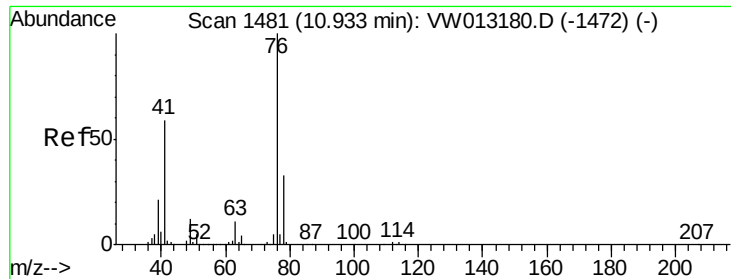
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





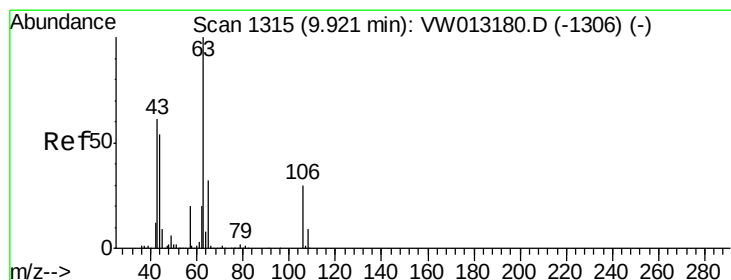
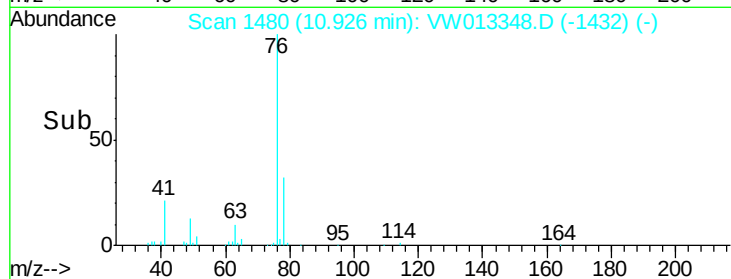
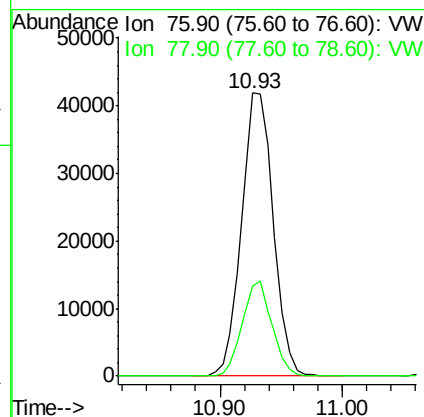
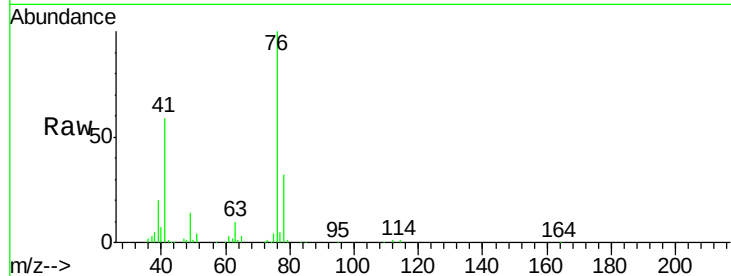
#57
 1,3-Dichloropropane
 Concen: 23.349 ug/l
 RT: 10.93 min Scan# 1480
 Delta R.T. -0.01 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion: 76 Resp: 75040
 Ion Ratio Lower Upper
 76 100
 78 31.4 25.5 38.3

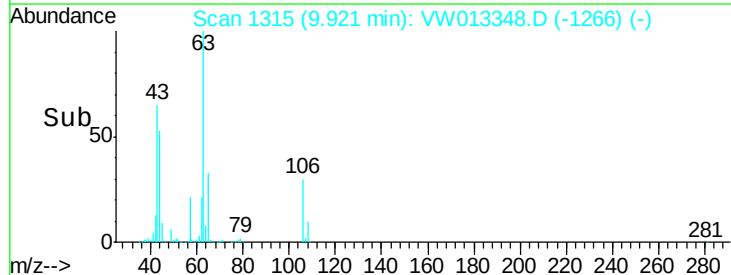
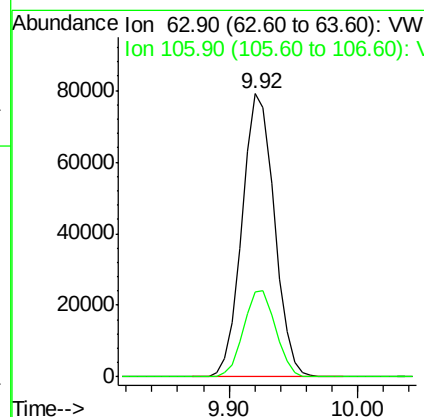
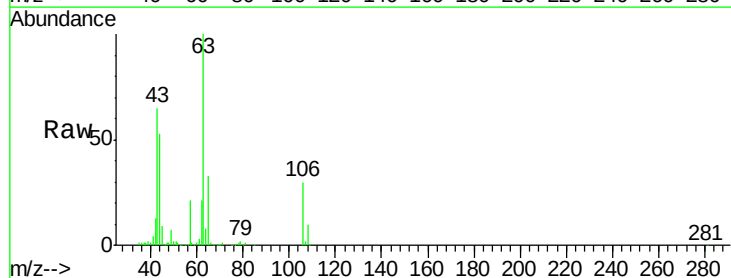
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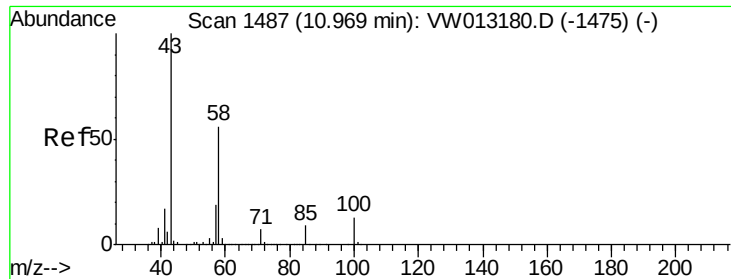
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#58
 2-Chloroethyl Vinyl ether
 Concen: 123.030 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion: 63 Resp: 137280
 Ion Ratio Lower Upper
 63 100
 106 30.3 23.4 35.0





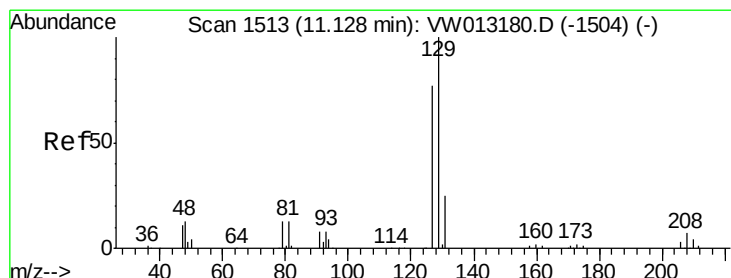
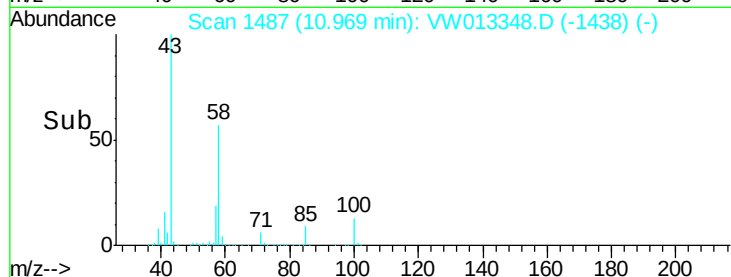
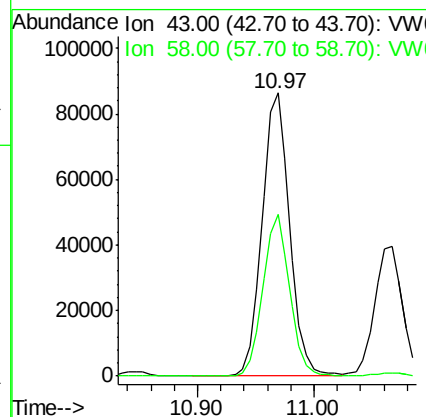
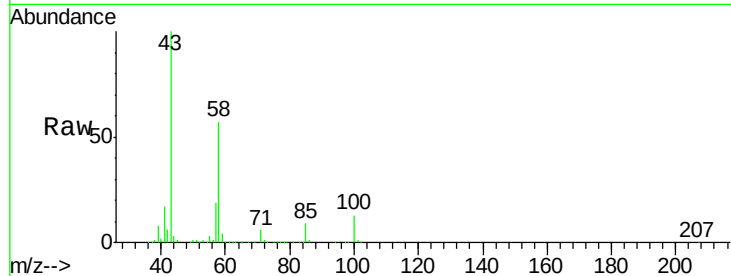
#59
2-Hexanone
Concen: 136.033 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion: 43 Resp: 142433
Ion Ratio Lower Upper
43 100
58 55.7 28.1 84.2

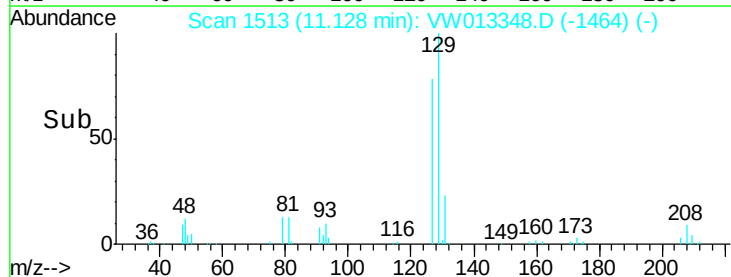
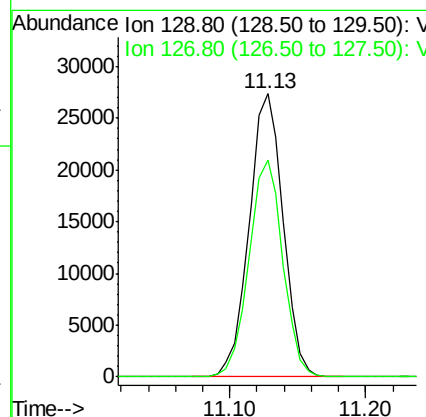
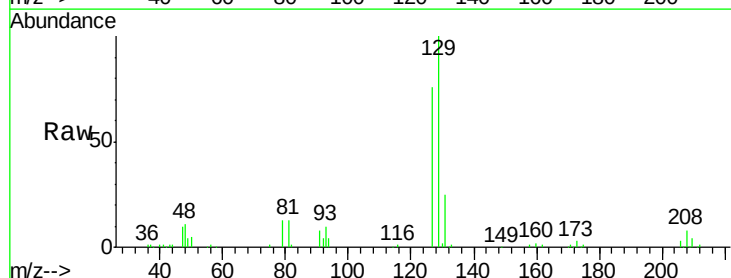
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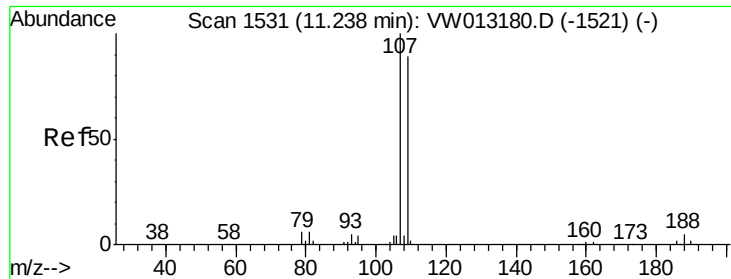
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#60
Dibromochloromethane
Concen: 22.910 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion: 129 Resp: 47910
Ion Ratio Lower Upper
129 100
127 76.0 38.8 116.4





#61

1,2-Dibromoethane

Concen: 24.599 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion: 107 Resp: 43074

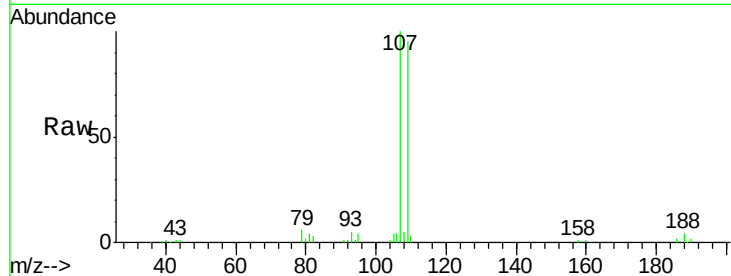
Ion Ratio Lower Upper

107 100

109 94.4 75.2 112.8

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.23

25000

20000

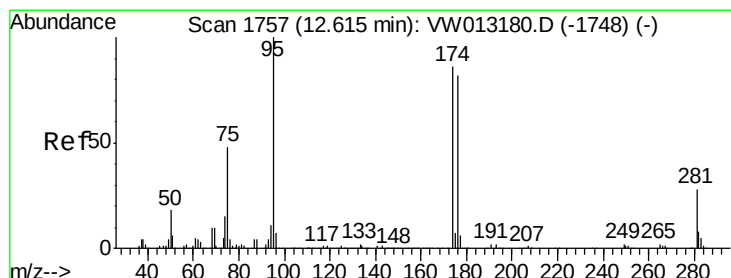
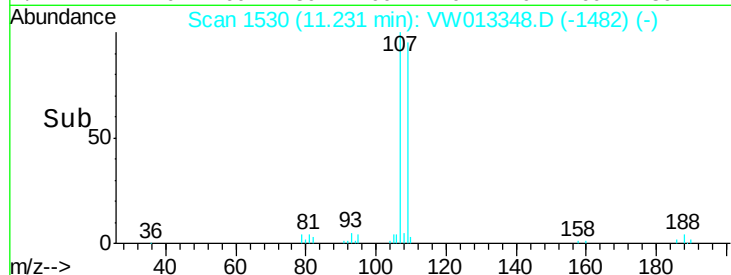
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.086 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

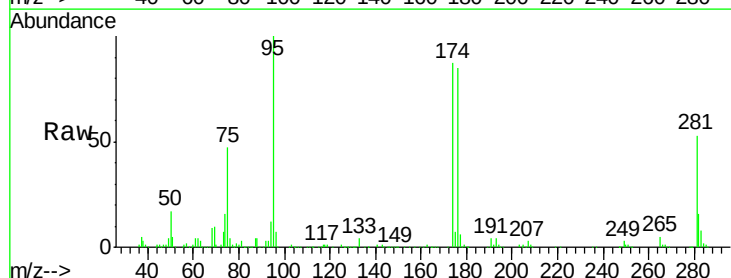
Tgt Ion: 95 Resp: 160608

Ion Ratio Lower Upper

95 100

174 90.7 0.0 178.4

176 87.3 0.0 172.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

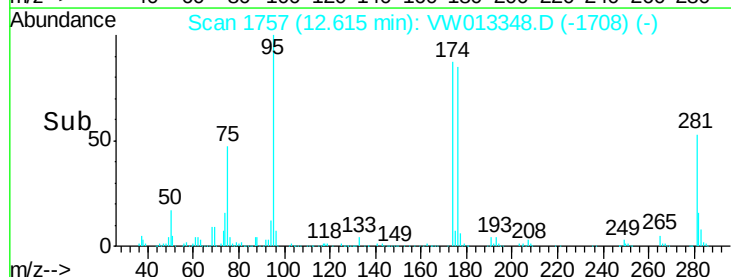
12.62

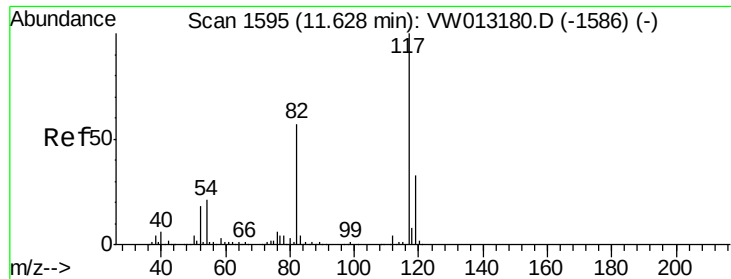
100000

50000

0

Time-->





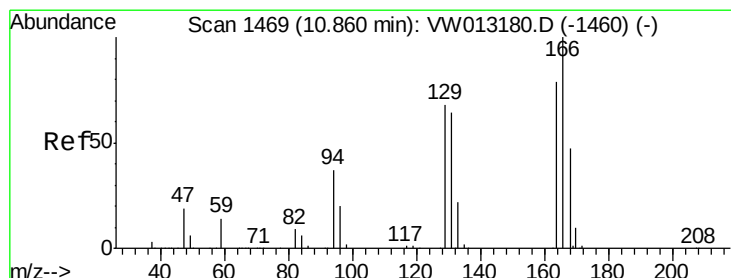
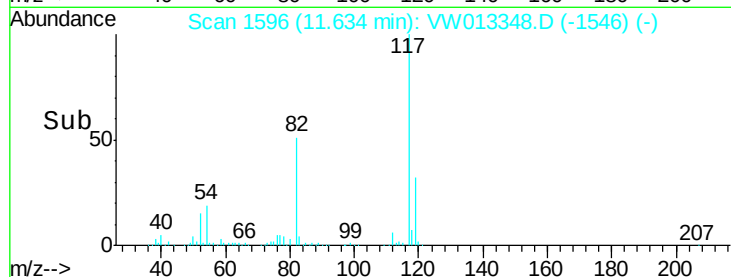
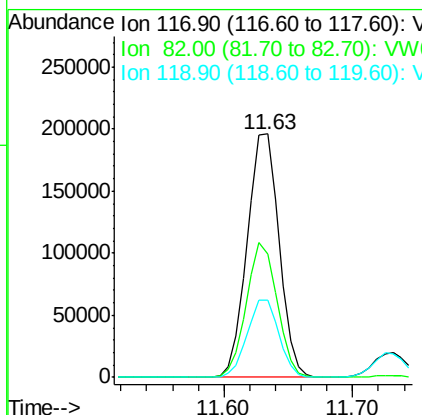
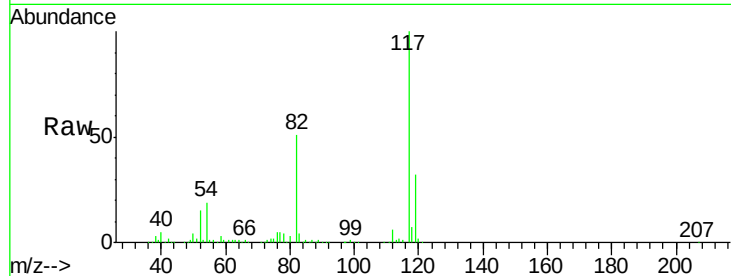
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	335551		
82	50.7		45.9	68.9
119	31.7		26.2	39.2

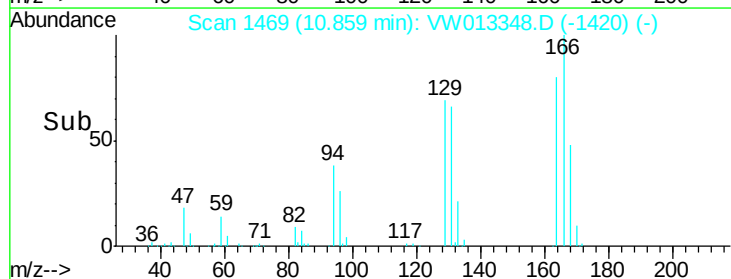
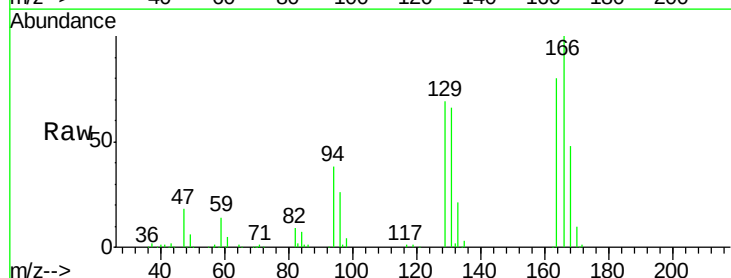
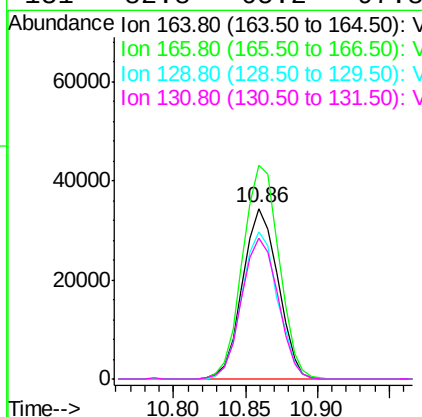
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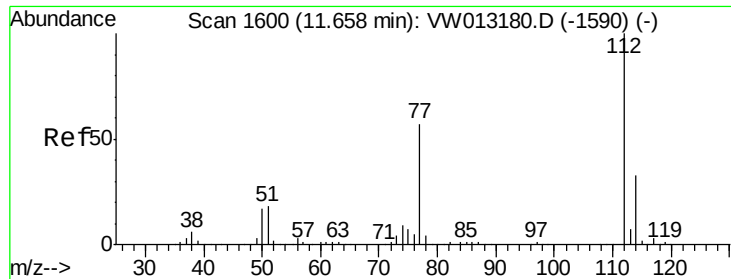
MMDadoda
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#64
Tetrachloroethene
Concen: 23.146 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	58929		
166	125.3		101.2	151.8
129	86.0		68.8	103.2
131	82.8		65.2	97.8





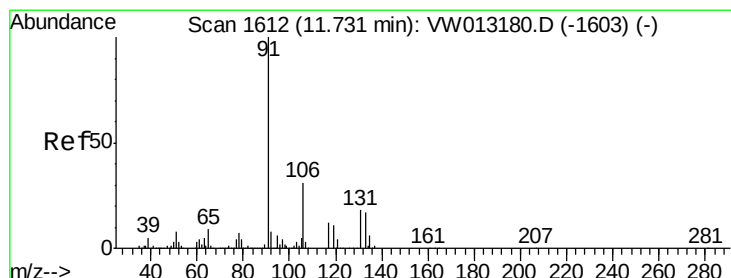
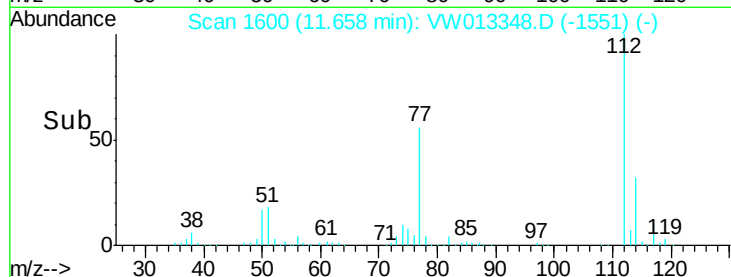
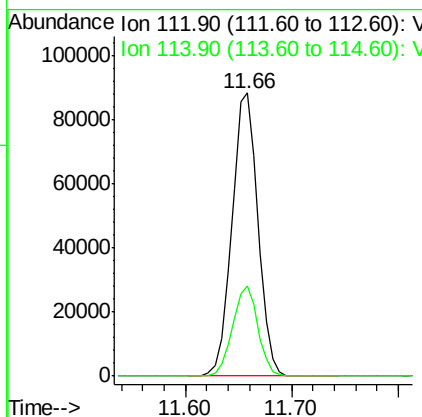
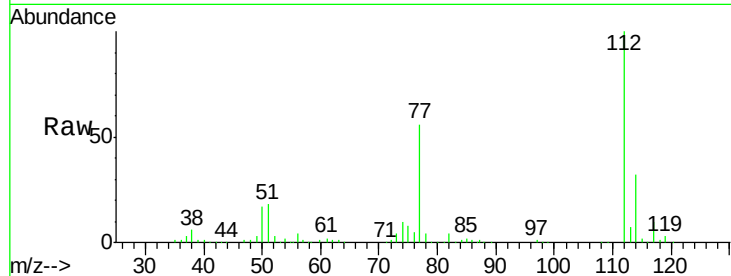
#65
Chlorobenzene
Concen: 21.520 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion:112 Resp: 150787
Ion Ratio Lower Upper
112 100
114 31.7 26.5 39.7

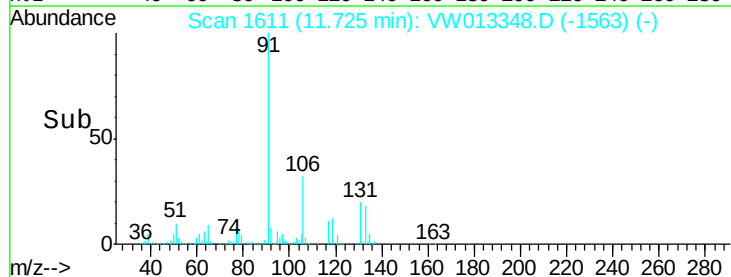
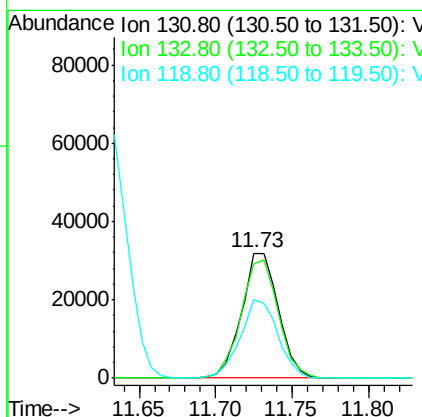
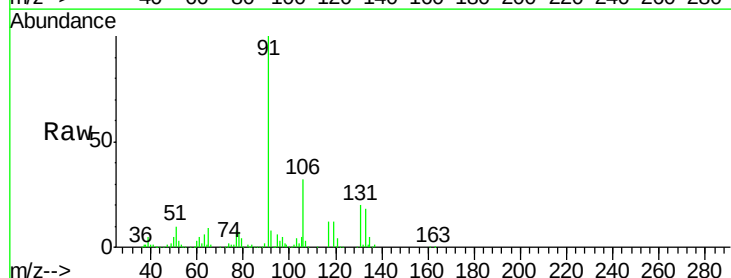
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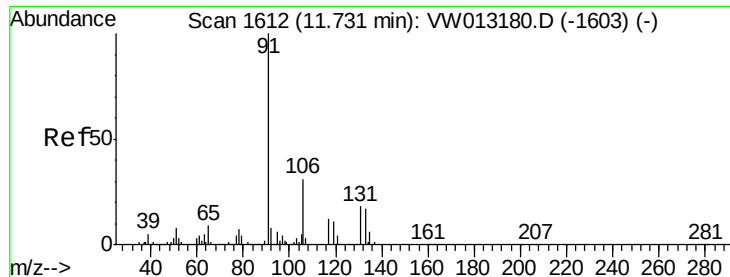
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.252 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion:131 Resp: 53267
Ion Ratio Lower Upper
131 100
133 95.8 47.5 142.6
119 64.2 32.5 97.5





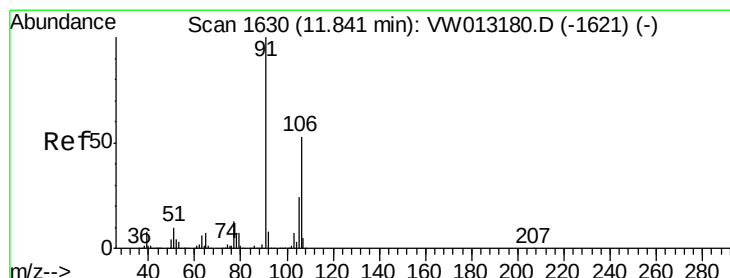
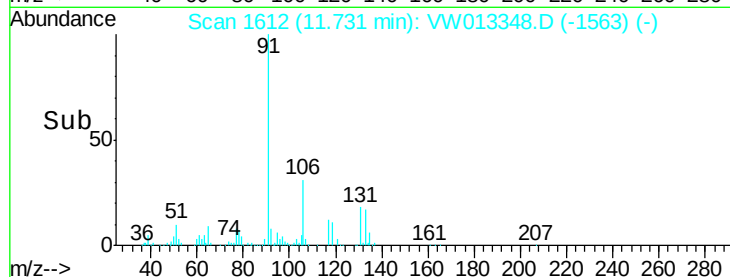
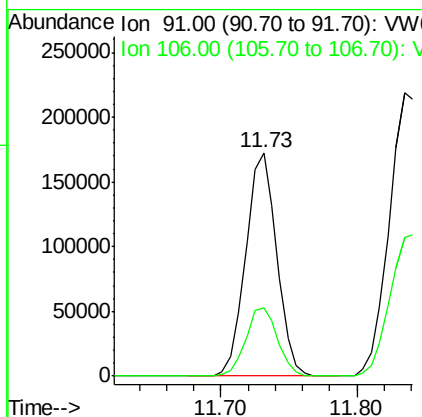
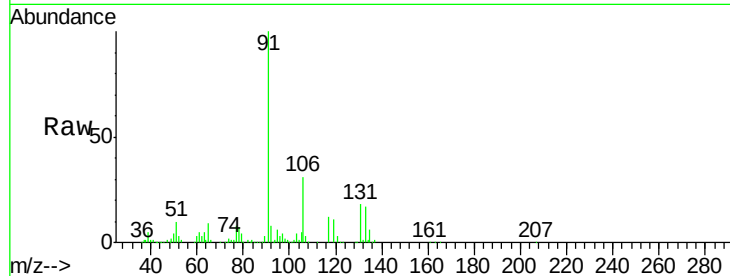
#67
Ethyl Benzene
Concen: 21.732 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.9	37.3

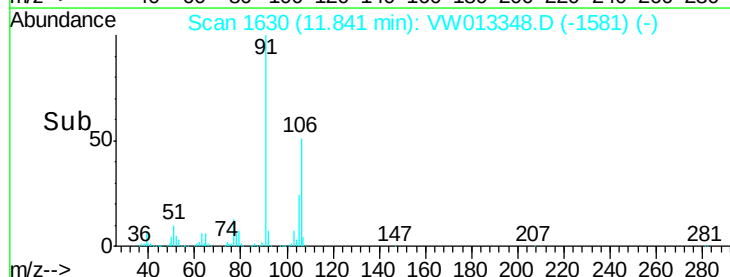
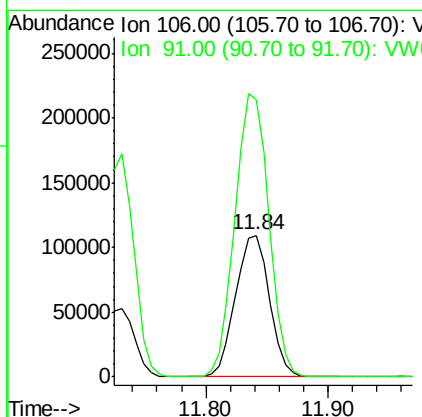
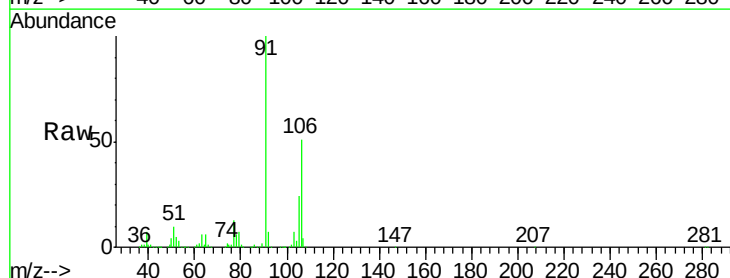
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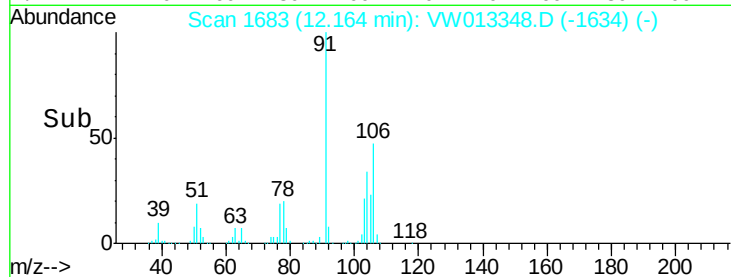
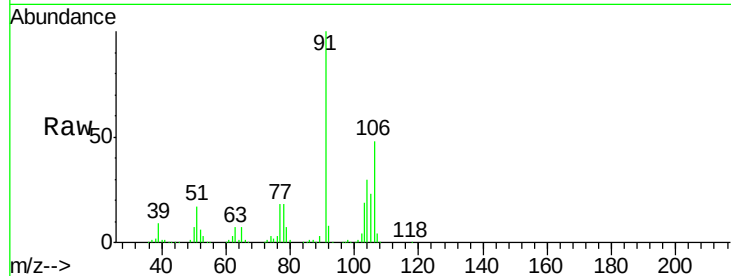
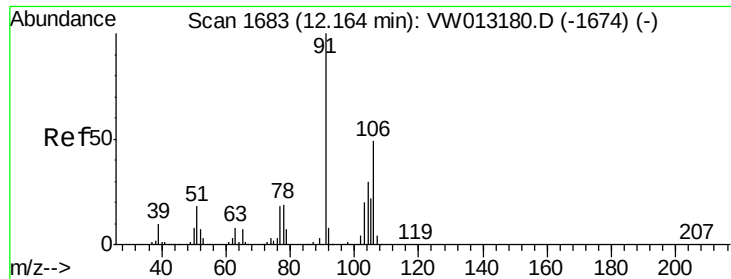
MMDadoda
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#68
m/p-Xylenes
Concen: 43.646 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
106	100		
91	199.0	157.9	236.9





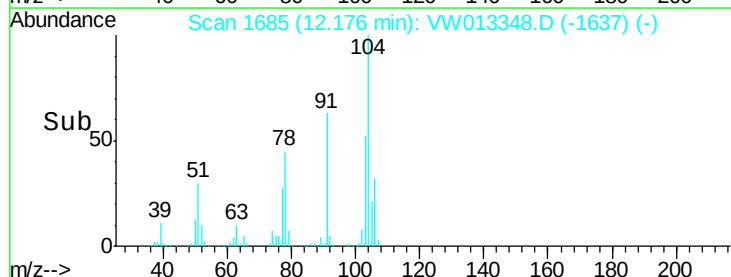
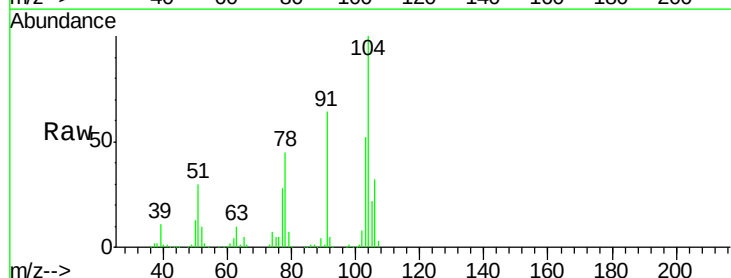
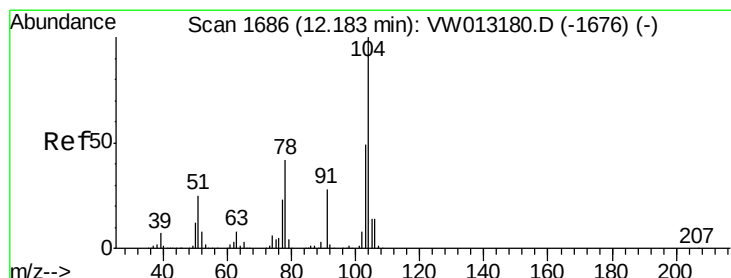
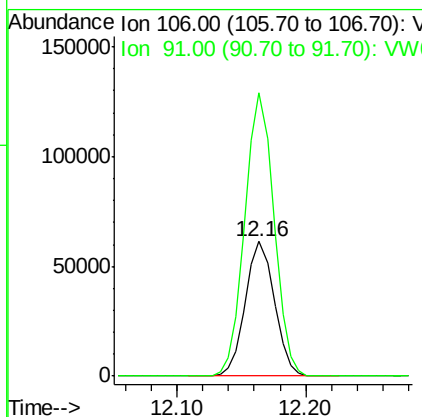
#69
o-Xylene
Concen: 21.352 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tot Ion	Ratio	Resp	Lower	Upper
106	100	96038		
91	209.7	106.5	319.5	

Instrument :
MSVOA_W
ClientSampled :
VW0930SBS01

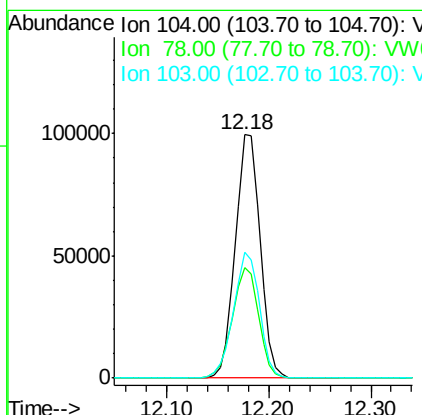
Manual Integrations
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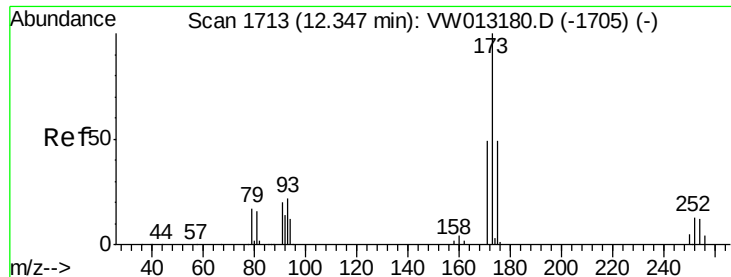
MMDadoda
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#70
Styrene
Concen: 21.628 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	167009		
78	48.2	38.4	57.6	
103	54.2	43.3	64.9	





#71

Bromoform

Concen: 24.242 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion:173 Resp: 30658

Ion Ratio Lower Upper

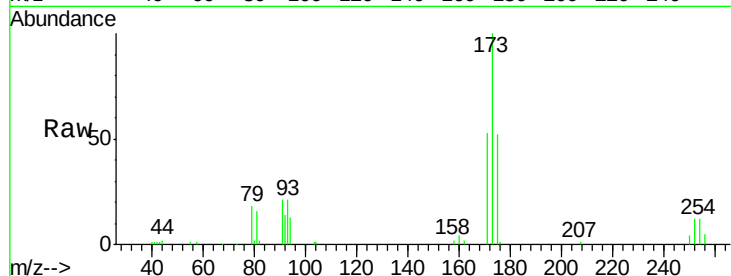
173 100

175 49.1 24.3 73.0

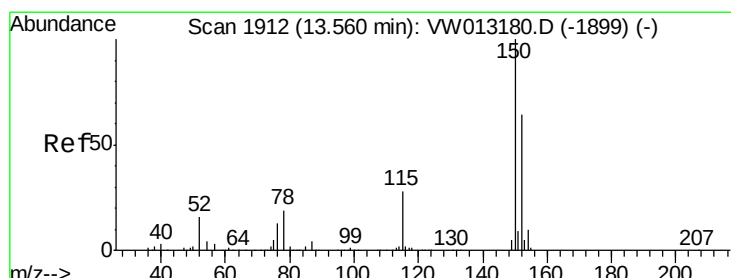
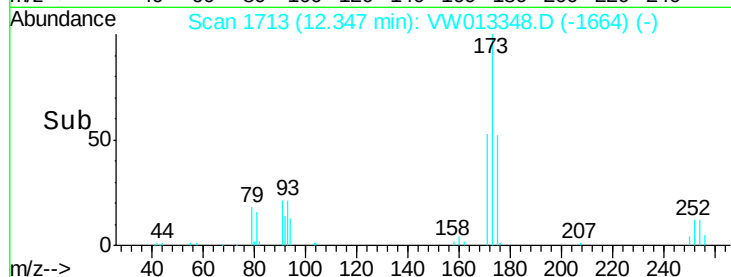
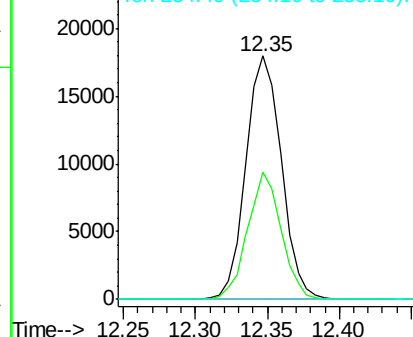
254 0.0 0.1 0.1#

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

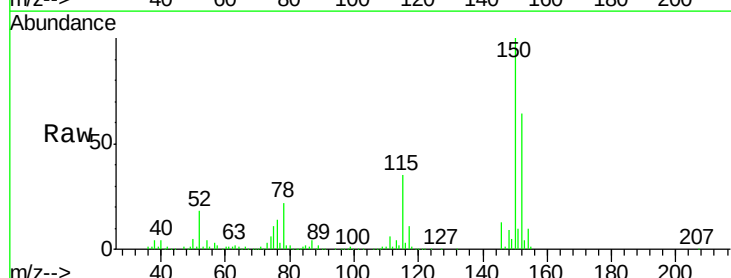
Tgt Ion:152 Resp: 169229

Ion Ratio Lower Upper

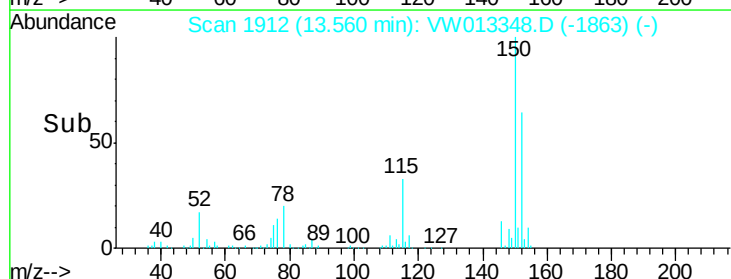
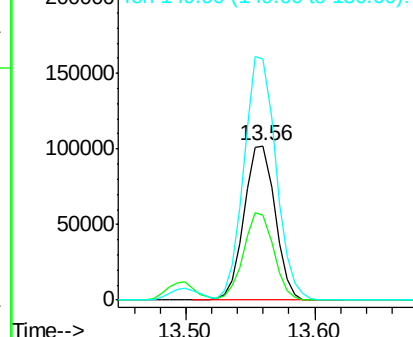
152 100

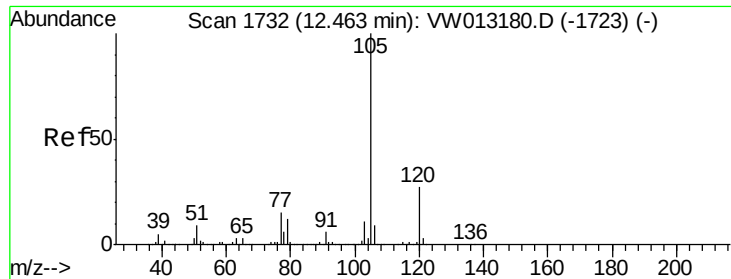
115 55.3 27.3 81.9

150 163.9 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.258 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion:105 Resp: 278255

Ion Ratio Lower Upper

105 100

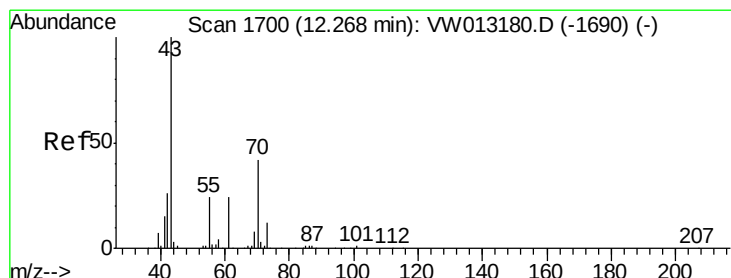
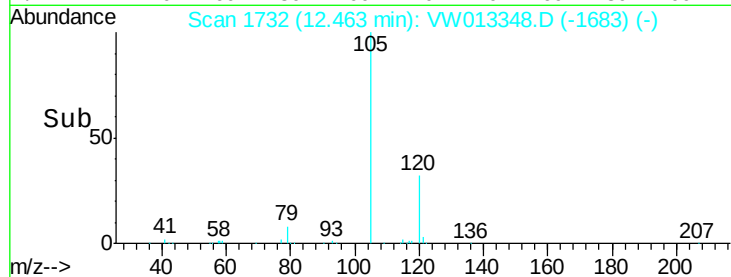
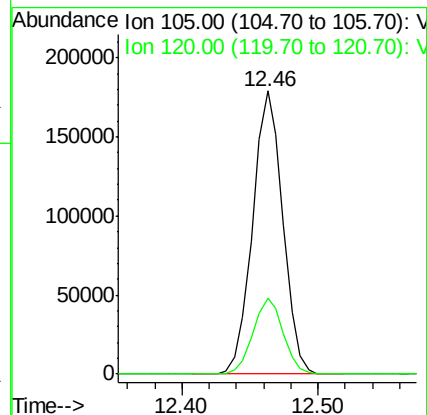
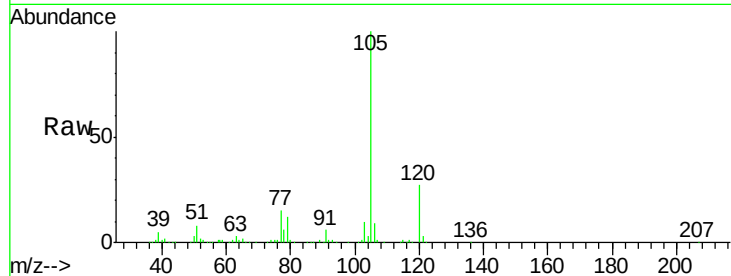
120 26.7 13.4 40.1

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#74

N-ethyl acetate

Concen: 24.377 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion: 43 Resp: 67621

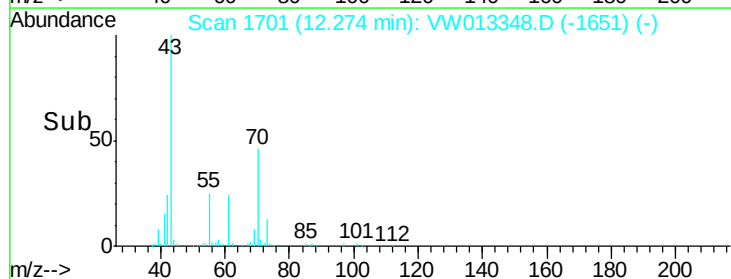
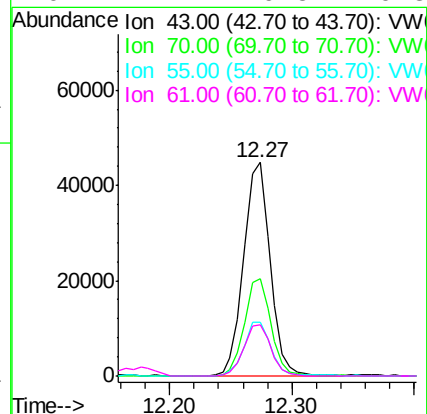
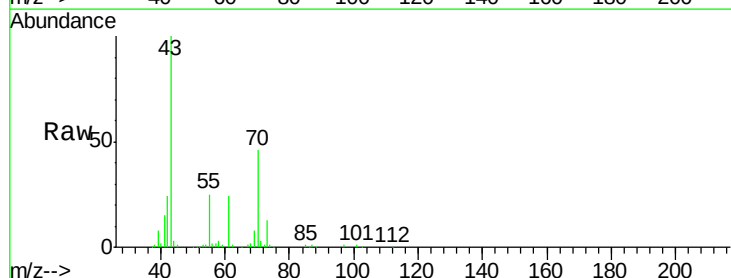
Ion Ratio Lower Upper

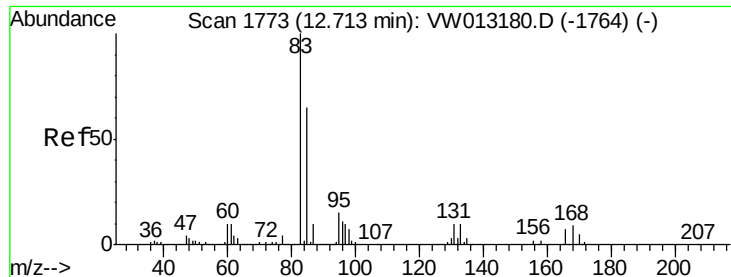
43 100

70 45.8 35.1 52.7

55 25.4 19.9 29.9

61 24.4 19.5 29.3





#75

1,1,2,2-Tetrachloroethane

Concen: 25.351 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

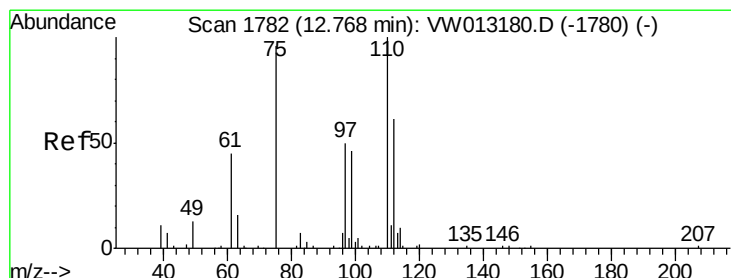
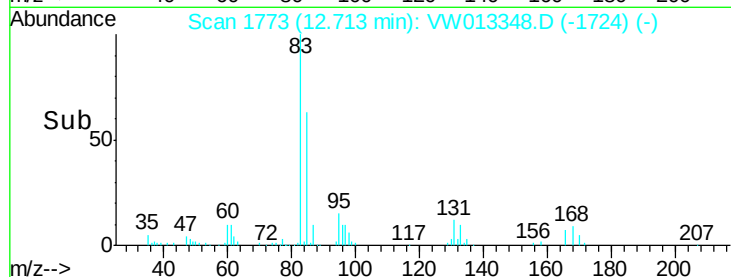
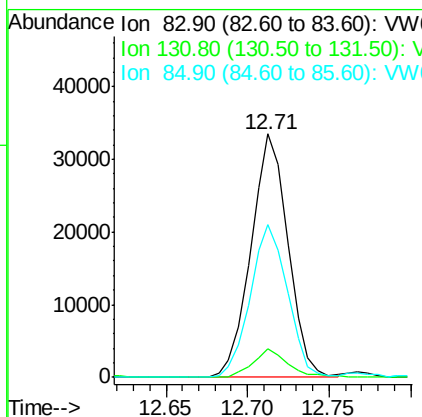
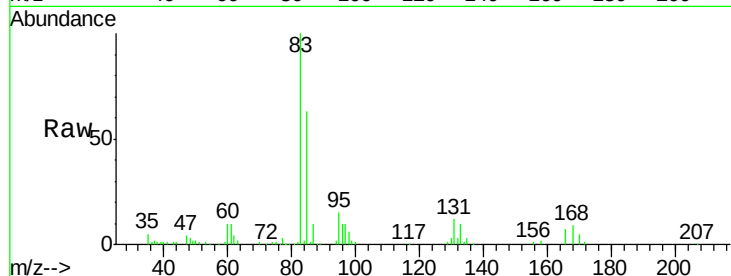
ClientSampleId :

VW0930SBS01

Tot Ion:	83	Resp:	53001
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.4	16.2
85	63.2	31.9	95.9

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#76

1,2,3-Trichloropropane

Concen: 28.372 ug/l m

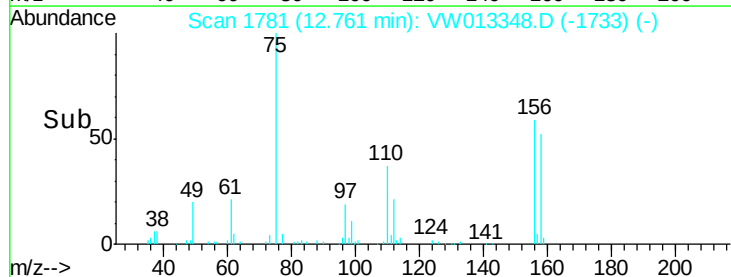
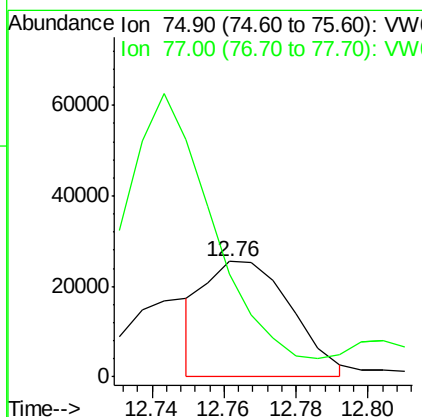
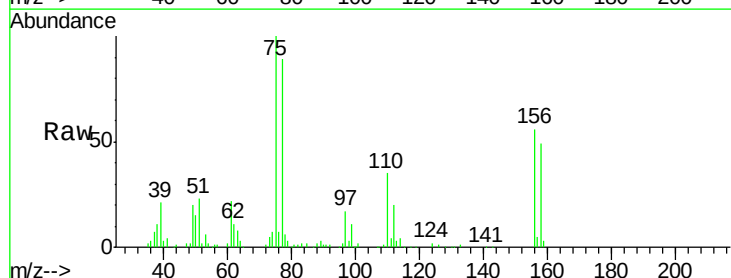
RT: 12.76 min Scan# 1781

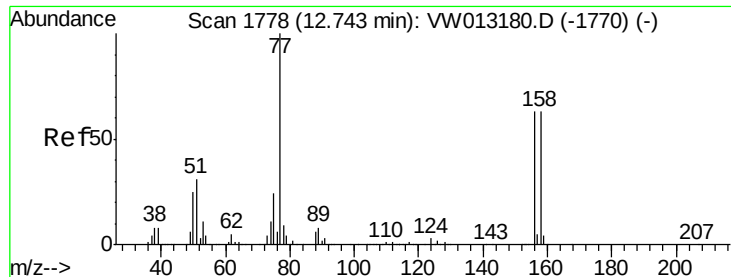
Delta R.T. -0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	75	Resp:	42403
Ion Ratio	Lower	Upper	
75	100		
77	269.4	0.0	0.0#





#77

Bromobenzene

Concen: 22.211 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

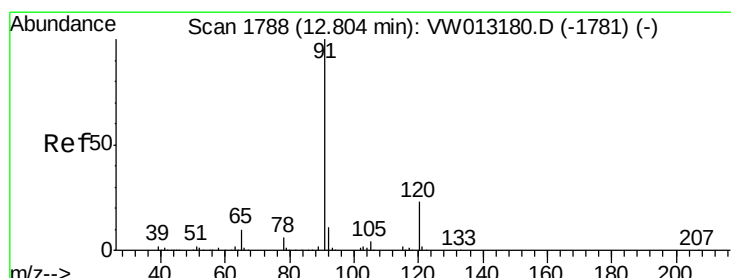
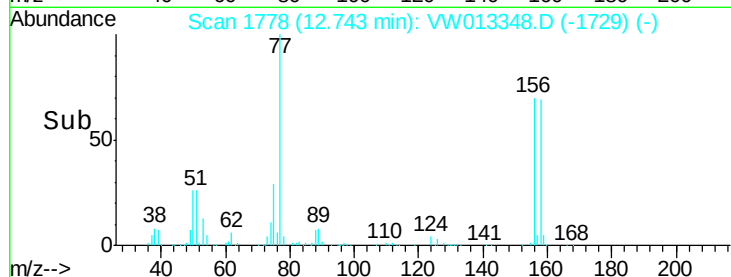
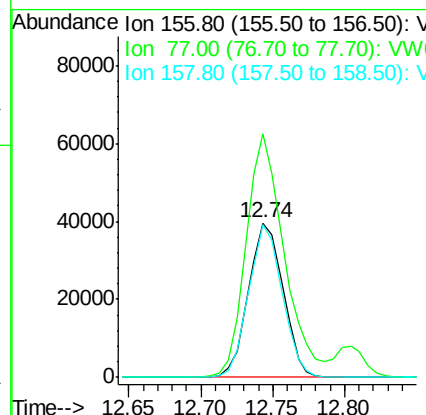
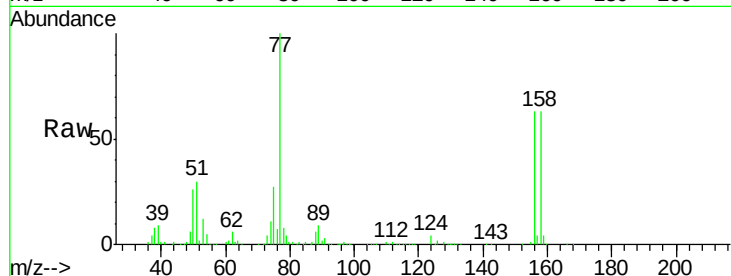
ClientSampleId :

VW0930SBS01

Tot Ion:	156	Resp:	65797
Ion	Ratio	Lower	Upper
156	100		
77	173.6	85.7	257.1
158	96.1	48.1	144.4

Manual Integrations
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#78

n-propylbenzene

Concen: 21.939 ug/l

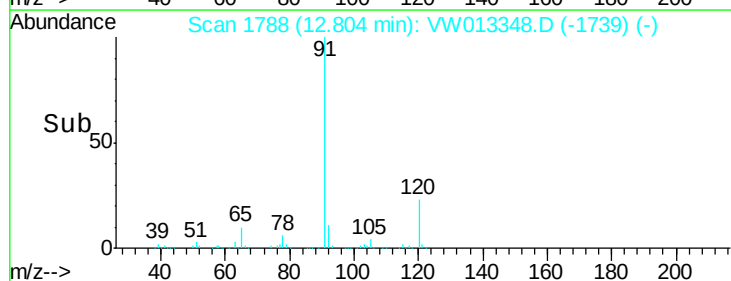
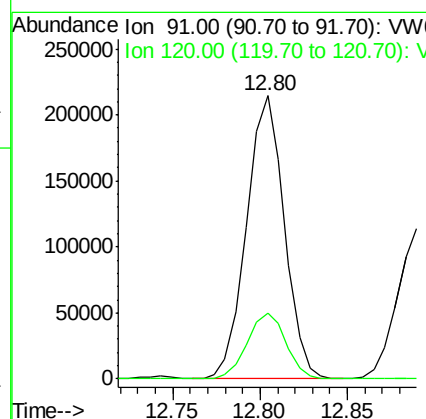
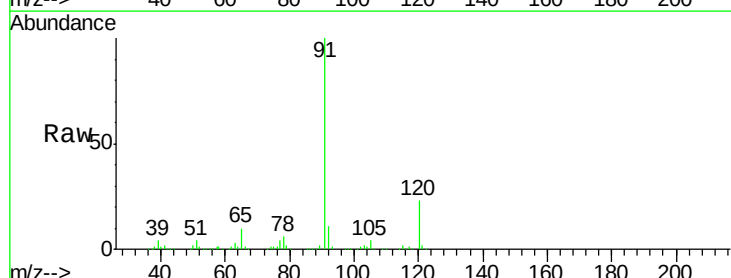
RT: 12.80 min Scan# 1788

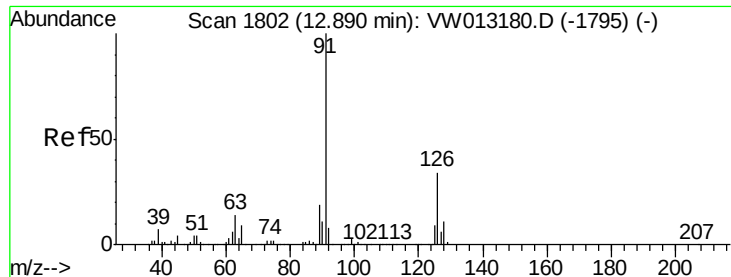
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	91	Resp:	321033
Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.7	35.1





#79

2-Chlorotoluene

Concen: 21.926 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

ClientSampleId :

VW0930SBS01

Tot Ion: 91 Resp: 179751

Ion Ratio Lower Upper

91 100

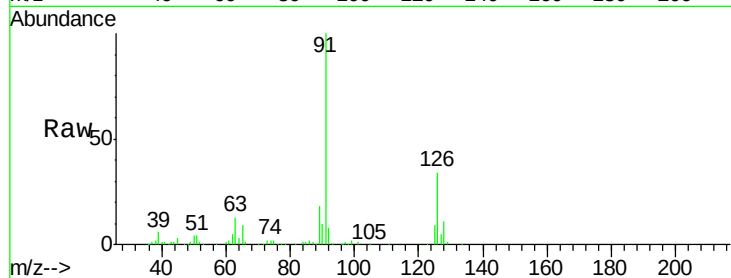
126 35.0 17.2 51.5

Manual Integrations

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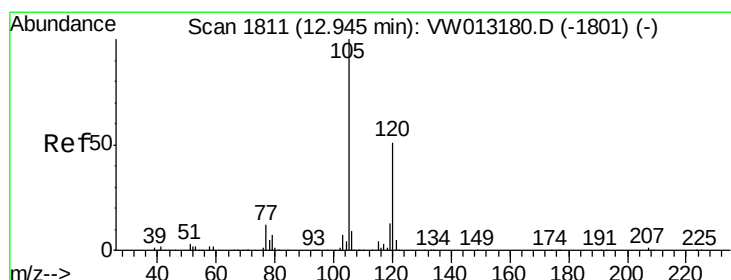
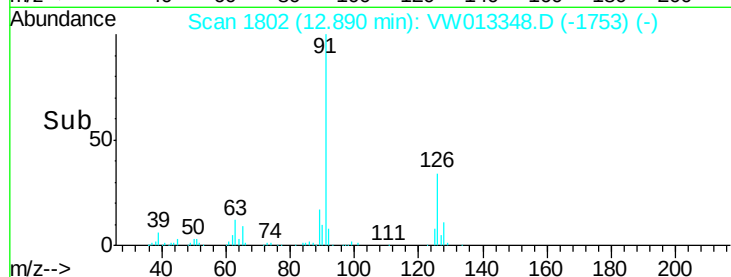
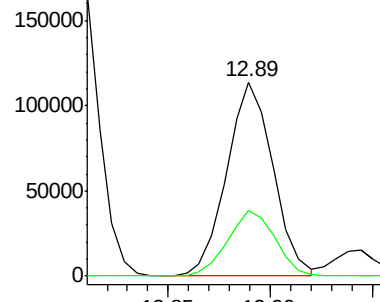
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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 21.846 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013348.D

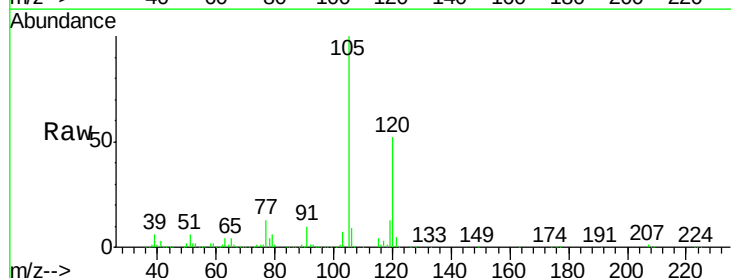
Acq: 30 Sep 2019 23:30

Tgt Ion: 105 Resp: 229566

Ion Ratio Lower Upper

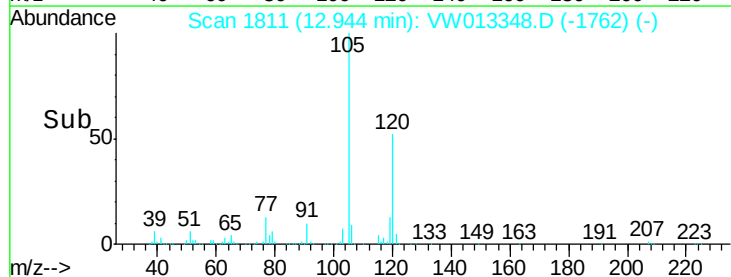
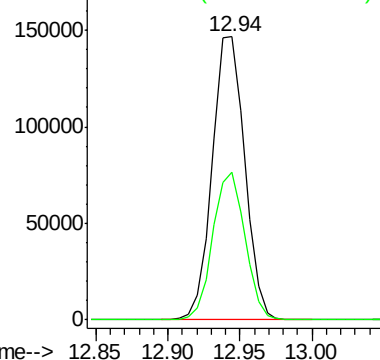
105 100

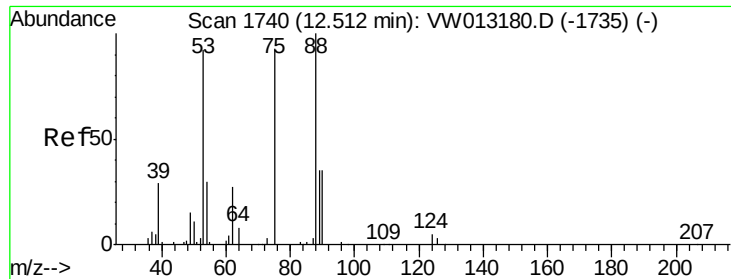
120 51.5 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





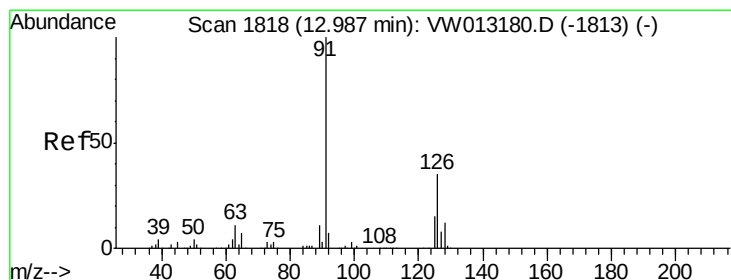
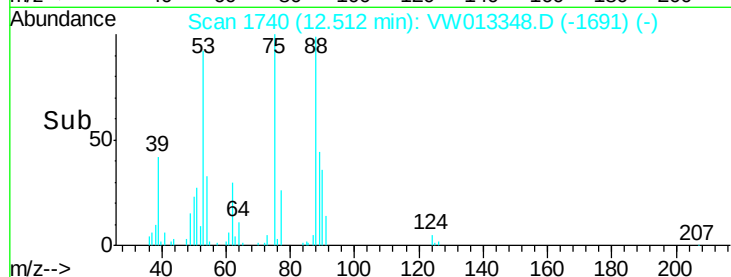
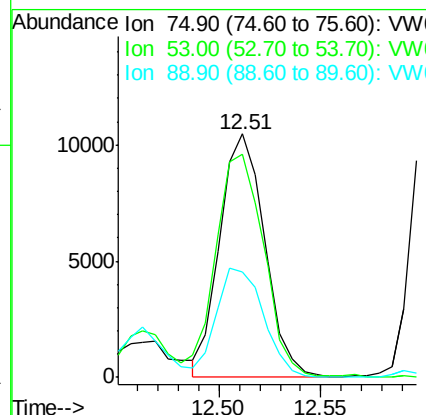
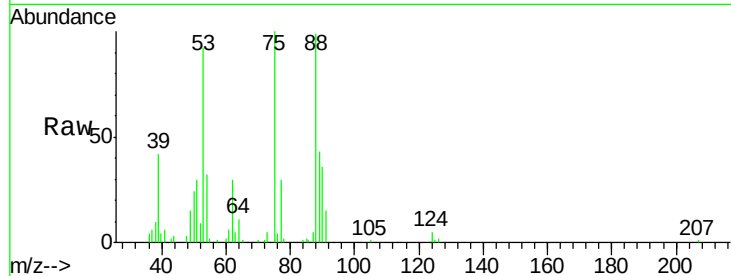
#81
trans-1,4-Dichloro-2-butene
Concen: 24.035 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.5	76.6	114.8
89	46.9	33.5	50.3

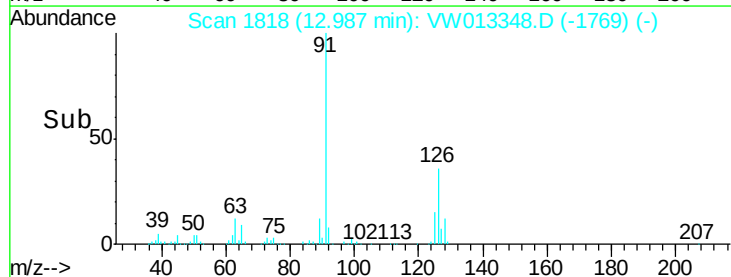
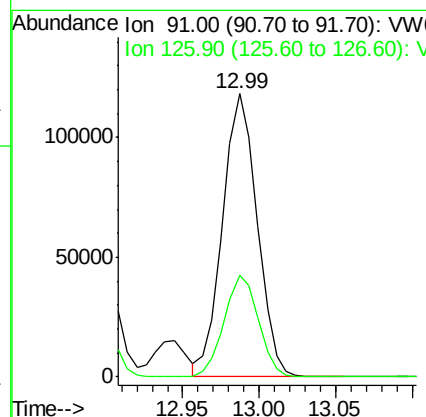
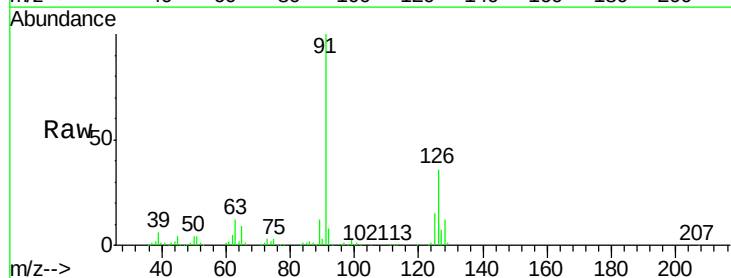
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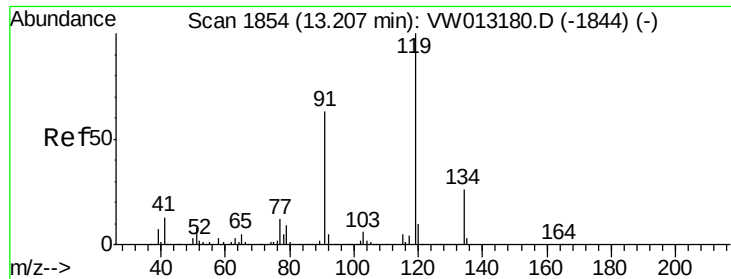
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#82
4-Chlorotoluene
Concen: 21.490 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.8	17.3	51.7





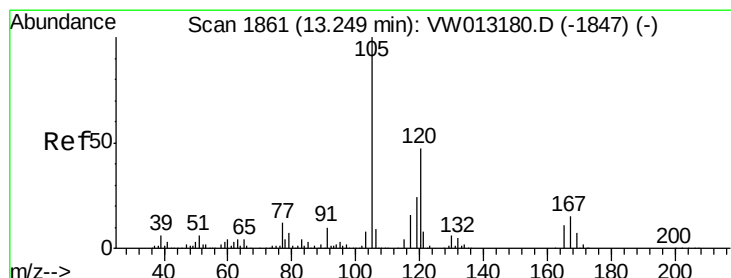
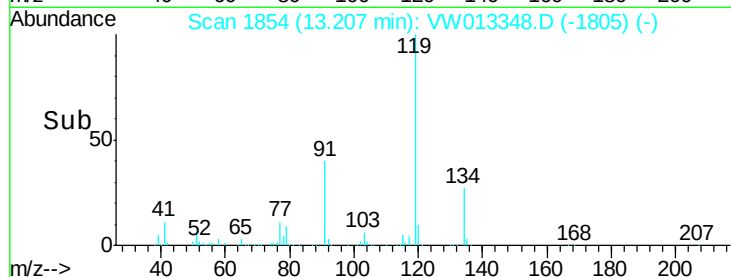
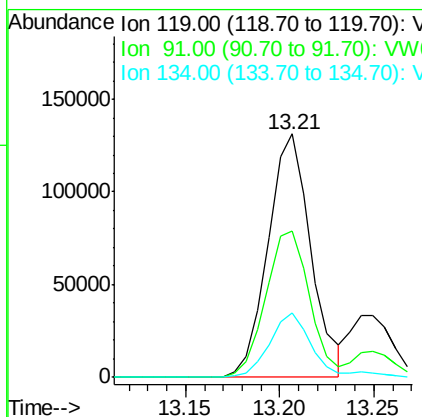
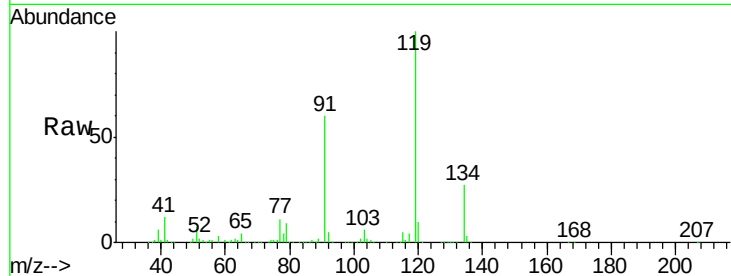
#83
tert-Butylbenzene
Concen: 22.461 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	207170		
91	61.5	30.7	92.1	
134	27.0	12.6	37.6	

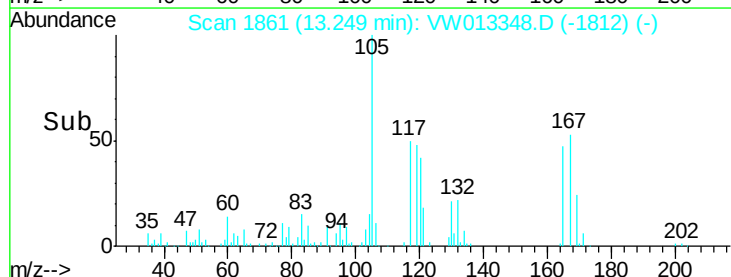
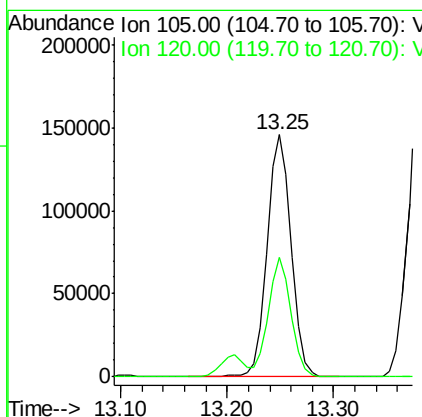
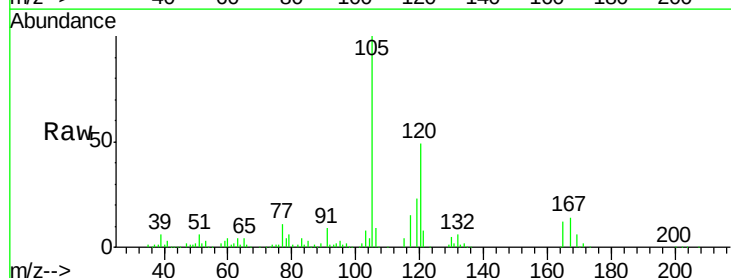
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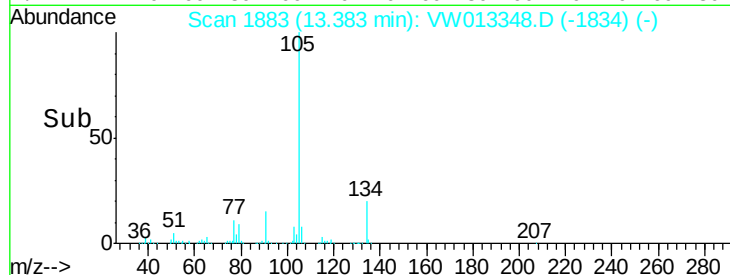
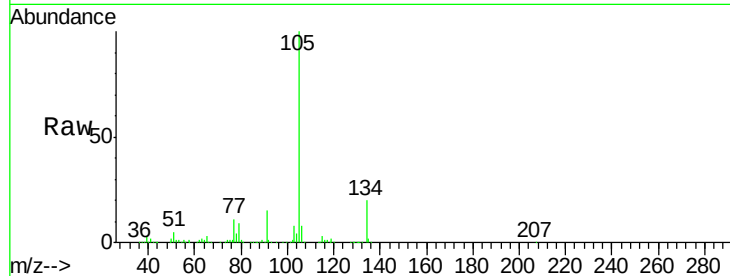
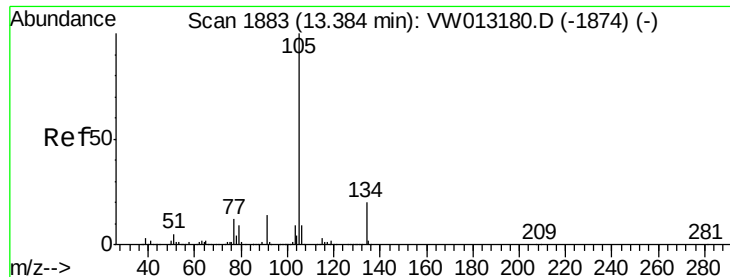
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#84
1,2,4-Trimethylbenzene
Concen: 21.919 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013348.D
Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	229208		
120	46.2	23.4	70.3	





#85

sec-Butylbenzene

Concen: 22.648 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tot Ion	Ratio	Resp	Lower	Upper
105	100	287998		
134	20.5	10.3	30.8	

Instrument :

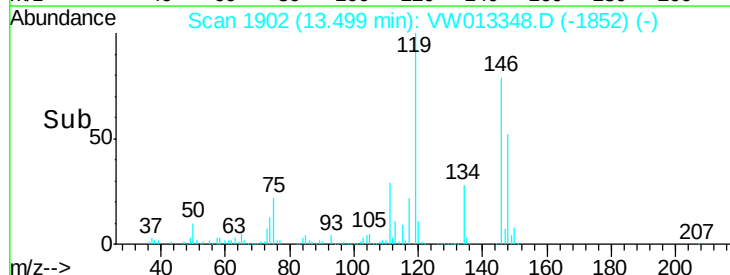
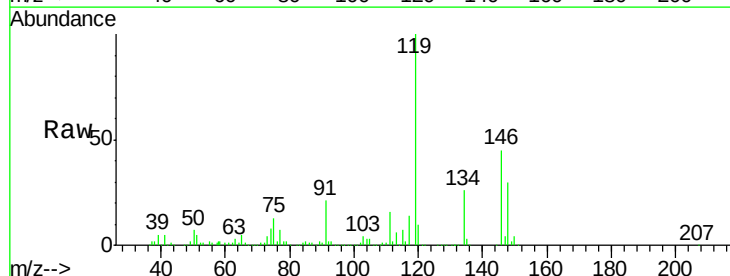
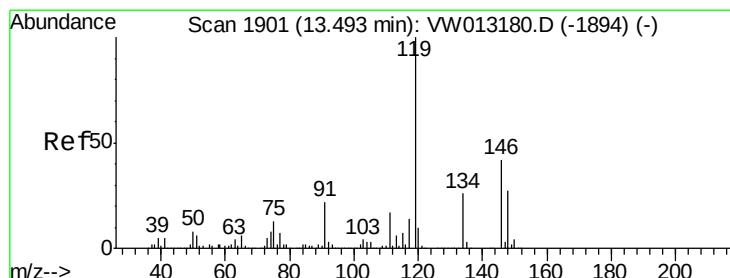
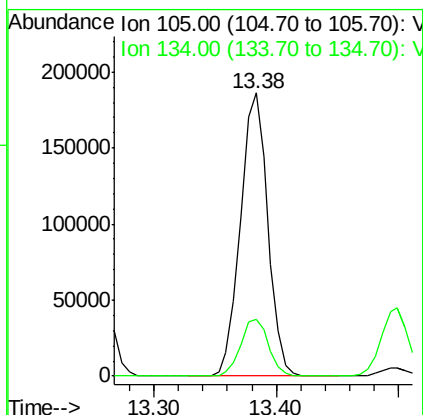
MSVOA_W

ClientSampleId :

VW0930SBS01

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#86

p-Isopropyltoluene

Concen: 22.255 ug/l

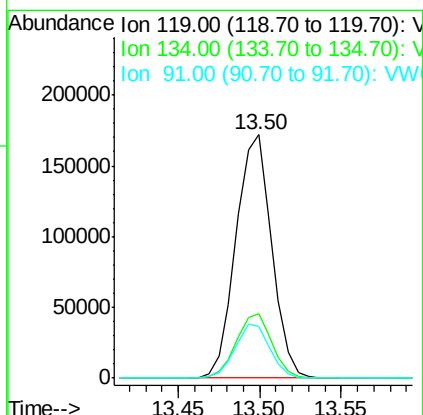
RT: 13.50 min Scan# 1902

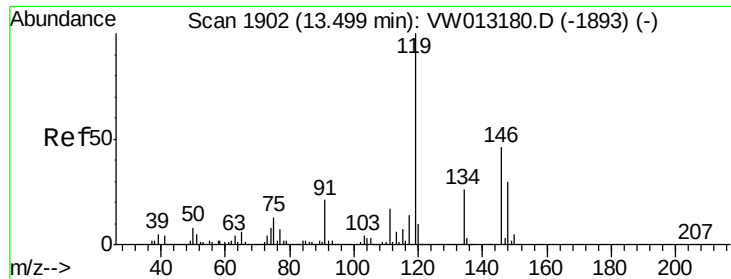
Delta R.T. 0.01 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	262487		
134	26.3	13.3	39.8	
91	21.7	10.8	32.4	





#87

1,3-Dichlorobenzene

Concen: 21.934 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

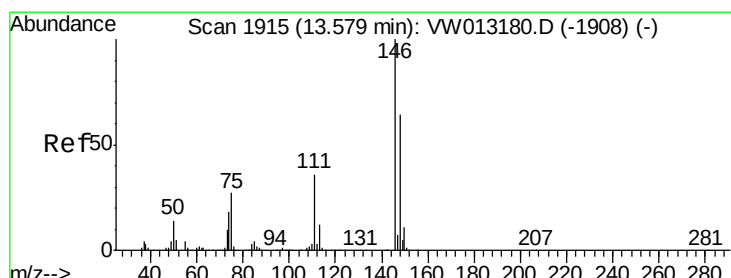
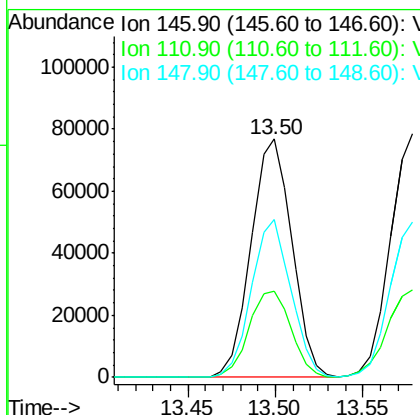
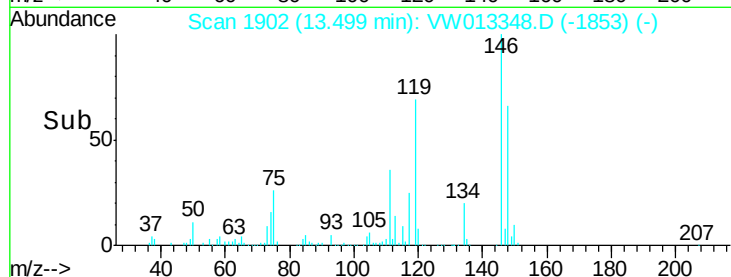
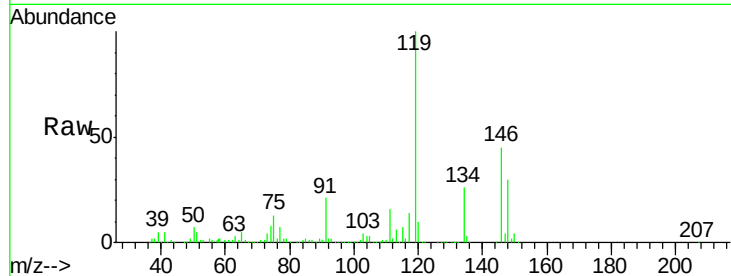
Instrument :
MSVOA_W

ClientSampleId :
VW0930SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.9	56.9
148	63.9	31.9	95.5

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#88

1,4-Dichlorobenzene

Concen: 22.014 ug/l

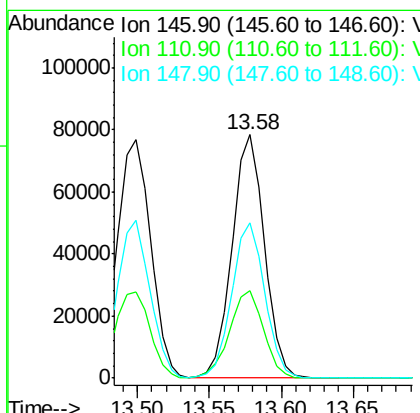
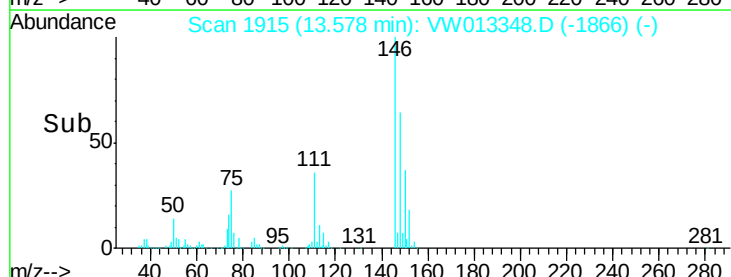
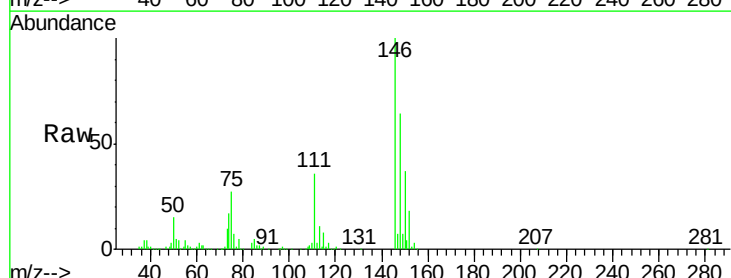
RT: 13.58 min Scan# 1915

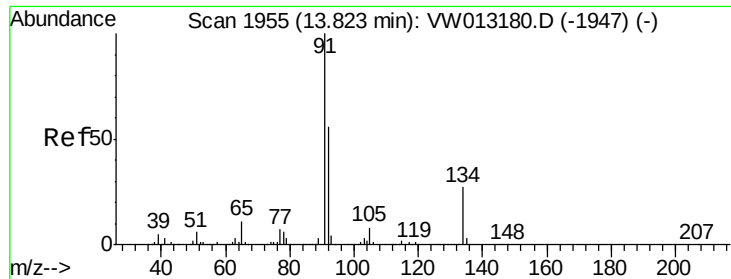
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.4	55.0
148	65.2	32.1	96.3





#89

n-Butylbenzene

Concen: 21.630 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

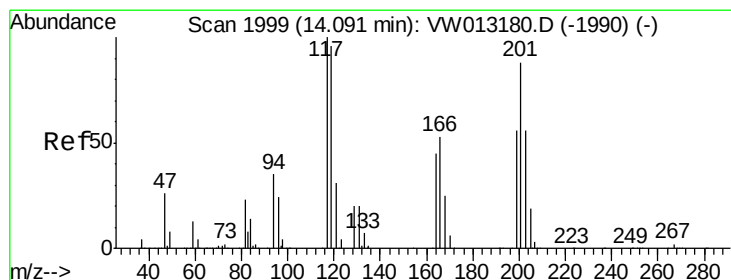
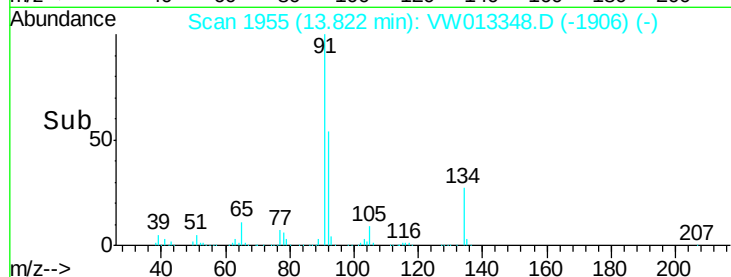
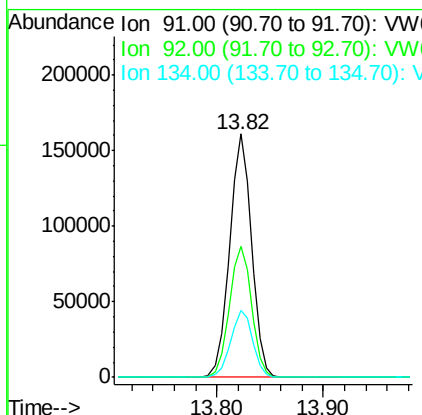
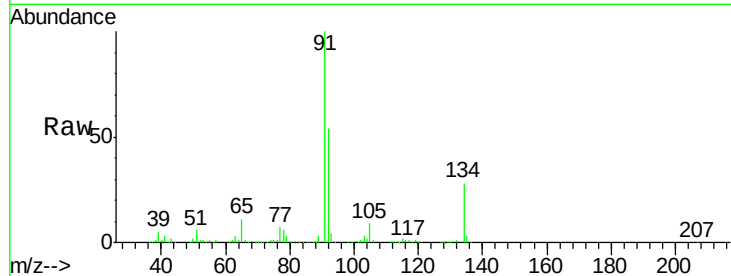
ClientSampleId :

VW0930SBS01

Tot Ion:	91	Resp:	232948
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.8
134	27.6	13.7	41.1

Manual Integrations
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#90

Hexachloroethane

Concen: 22.404 ug/l

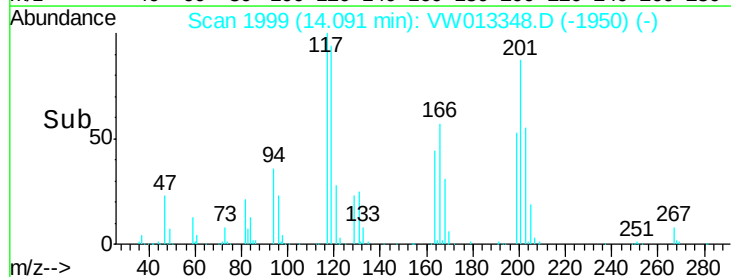
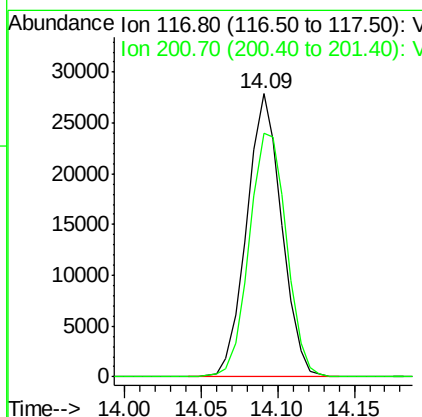
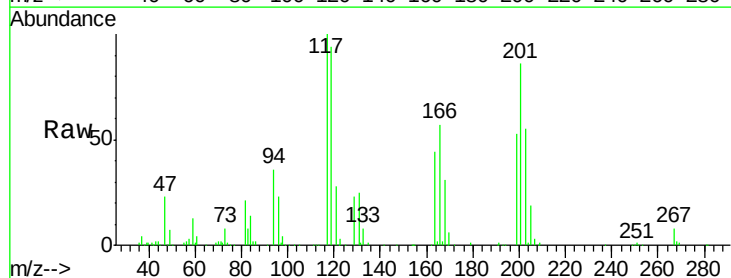
RT: 14.09 min Scan# 1999

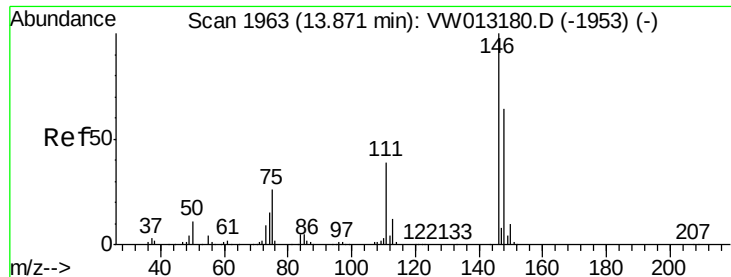
Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:	117	Resp:	44390
Ion	Ratio	Lower	Upper
117	100		
201	91.7	44.5	133.5





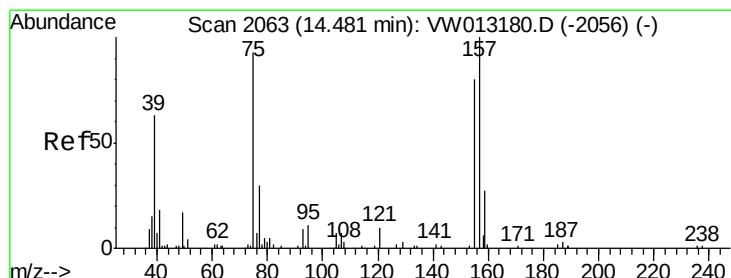
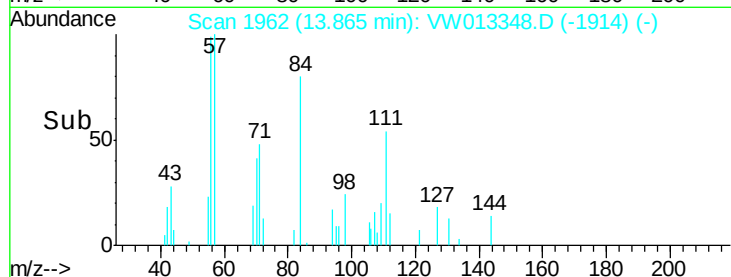
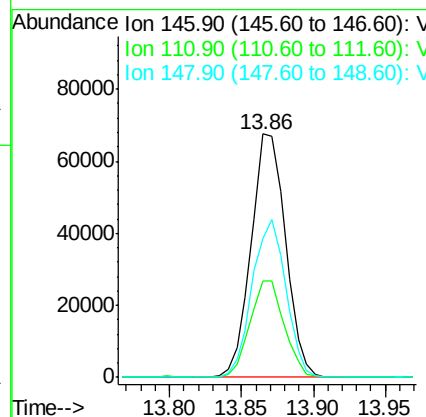
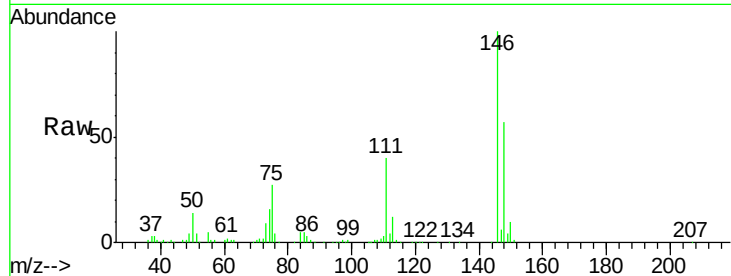
#91
 1,2-Dichlorobenzene
 Concen: 22.674 ug/l
 RT: 13.86 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.1	60.3
148	63.5	32.0	96.0

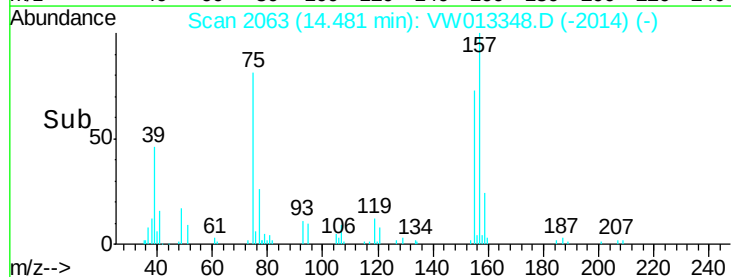
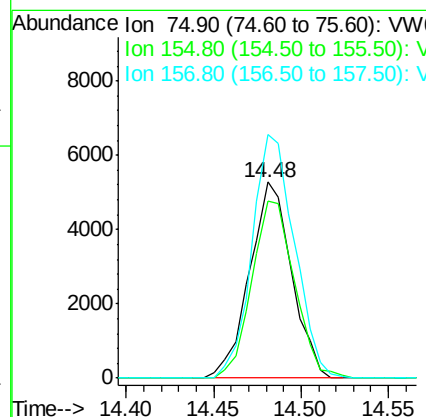
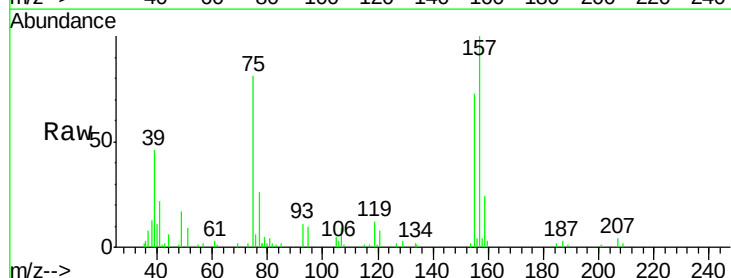
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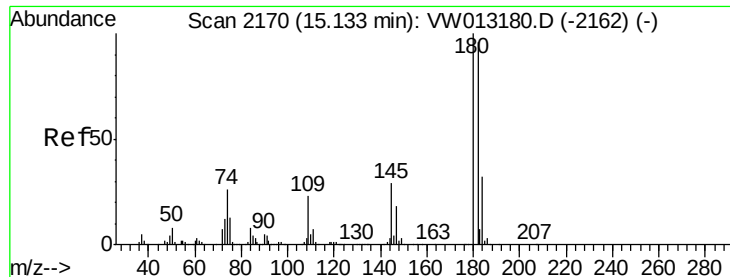
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 27.672 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.5	46.1	138.3
157	124.8	60.4	181.2





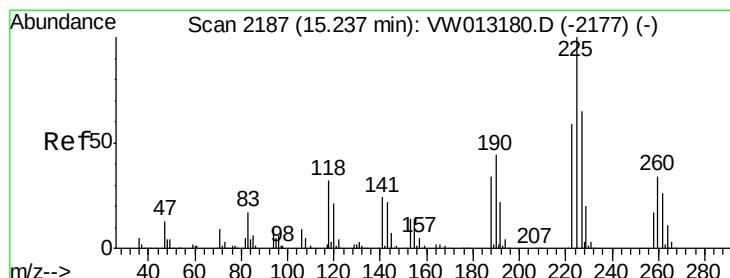
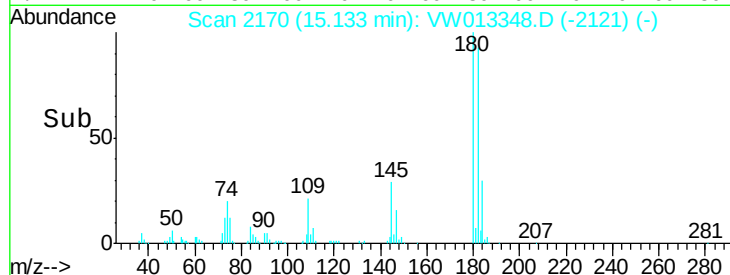
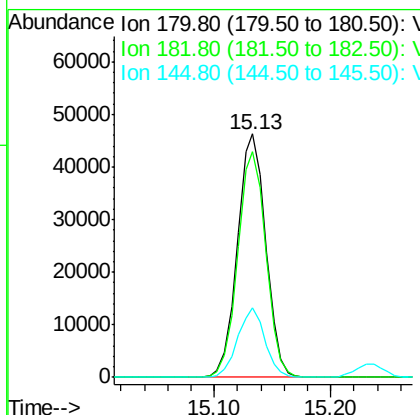
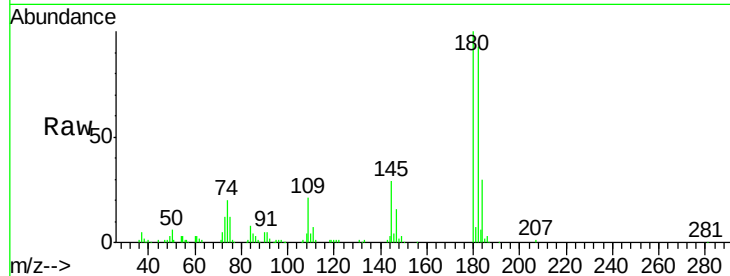
#93
 1,2,4-Trichlorobenzene
 Concen: 22.136 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	78237		
182	92.5	47.3	142.0	
145	27.5	14.2	42.8	

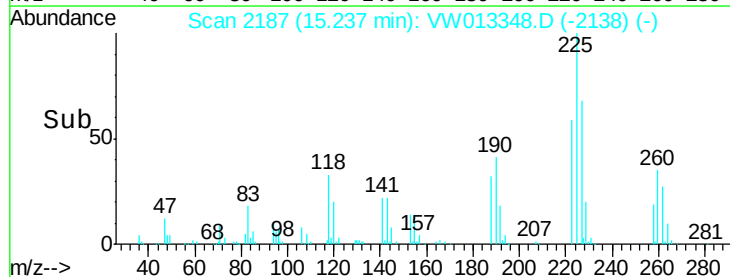
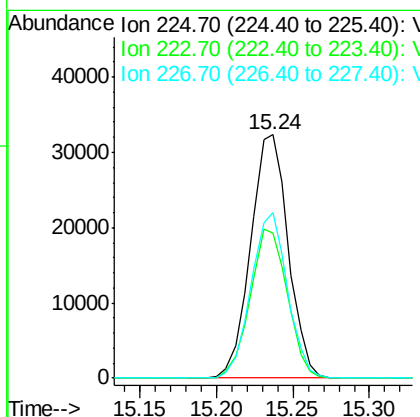
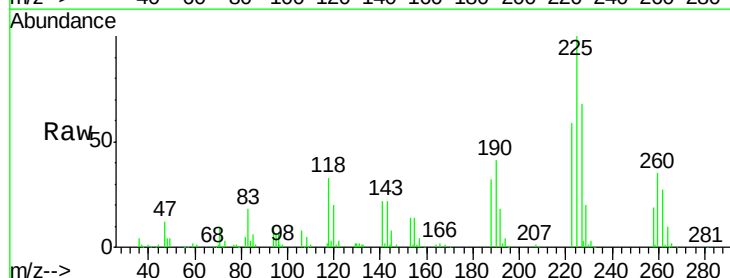
Manual Integrations
 APPROVED

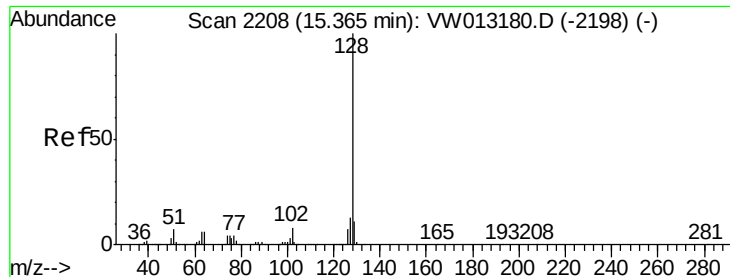
MMDadoda
 10/1/2019 11:32:58 AM



#94
 Hexachlorobutadiene
 Concen: 22.846 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW013348.D
 Acq: 30 Sep 2019 23:30

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	55242		
223	60.6	30.6	91.8	
227	65.8	31.9	95.9	





#95

Naphthalene

Concen: 24.838 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Instrument :

MSVOA_W

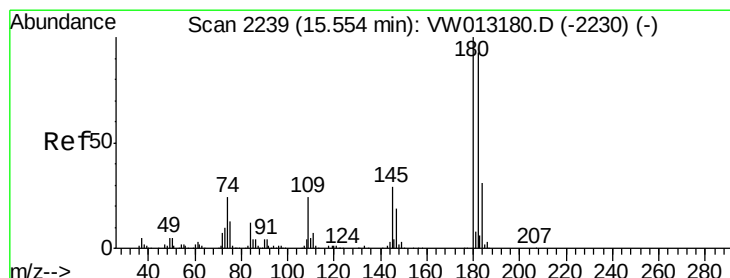
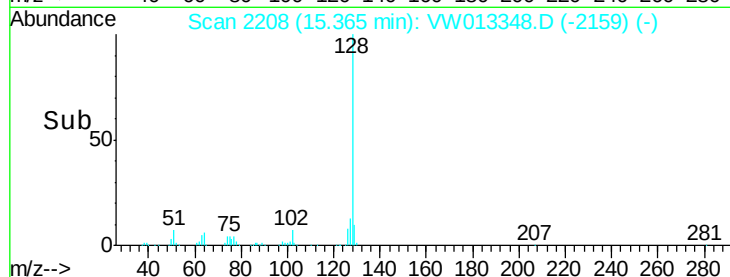
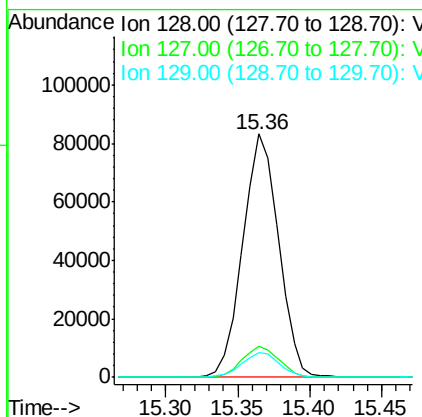
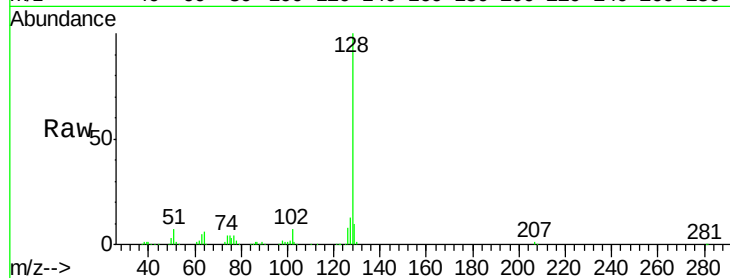
ClientSampleId :

VW0930SBS01

Tot Ion:128	Resp:	143579
Ion Ratio	Lower	Upper
128	100	
127	12.9	10.6 15.8
129	10.7	8.7 13.1

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:58 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.649 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013348.D

Acq: 30 Sep 2019 23:30

Tgt Ion:180	Resp:	69169
Ion Ratio	Lower	Upper
180	100	
182	96.2	47.9 143.7
145	29.9	15.0 45.0

