

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052319\
 Data File : VW010532.D
 Acq On : 23 May 2019 16:15
 Operator : SY/VA
 Sample : K3010-05MSD
 Misc : 6.63G/5ML/MSVOA W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 10:44:24 PM

Quant Time: May 24 09:01:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	132368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	228853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	200602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	95363	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	63793	46.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.38%	
35) Dibromofluoromethane	7.88	113	66641	47.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.98%	
50) Toluene-d8	10.32	98	260129	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	
62) 4-Bromofluorobenzene	12.62	95	98416	46.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.16%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.00	85	46078	39.012	ug/l	98
3) Chloromethane	2.21	50	49943	35.911	ug/l	99
4) Vinyl Chloride	2.35	62	57525	35.709	ug/l	98
5) Bromomethane	2.75	94	39130	35.308	ug/l	99
6) Chloroethane	2.90	64	39019	37.731	ug/l	97
7) Trichlorofluoromethane	3.25	101	99421	41.802	ug/l	93
8) Diethyl Ether	3.68	74	29189	38.716	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.05	101	58986	40.272	ug/l	98
10) Methyl Iodide	4.27	142	64585	38.579	ug/l	98
11) Tert butyl alcohol	5.16	59	24740	201.311	ug/l	100
12) 1,1-Dichloroethene	4.03	96	57651	41.234	ug/l	98
13) Acrolein	3.89	56	20782	294.154	ug/l	98
14) Allyl chloride	4.67	41	79454	39.259	ug/l	100
15) Acrylonitrile	5.37	53	59429	188.221	ug/l	97
16) Acetone	4.12	43	48182	172.767	ug/l	98
17) Carbon Disulfide	4.37	76	166026	39.811	ug/l	100
18) Methyl Acetate	4.67	43	51798	75.942	ug/l	100
19) Methyl tert-butyl Ether	5.42	73	139145	39.038	ug/l	97
20) Methylene Chloride	4.91	84	67661	40.372	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	65827	41.046	ug/l	98
22) Diisopropyl ether	6.31	45	158539	38.204	ug/l	98
23) Vinyl Acetate	6.26	43	298903	120.582	ug/l	100
24) 1,1-Dichloroethane	6.21	63	101622	41.036	ug/l	98
25) 2-Butanone	7.17	43	71848	180.021	ug/l	99
26) 2,2-Dichloropropane	7.16	77	92461	39.197	ug/l	100
27) cis-1,2-Dichloroethene	7.16	96	71400	40.951	ug/l	99
28) Bromochloromethane	7.51	49	42764	48.232	ug/l	95
29) Tetrahydrofuran	7.53	42	49432	183.035	ug/l	97
30) Chloroform	7.67	83	108944	40.786	ug/l	98
31) Cyclohexane	7.95	56	97611	37.629	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	106461	41.700	ug/l	98
36) 1,1-Dichloropropene	8.08	75	87005	40.811	ug/l	100
37) Ethyl Acetate	7.25	43	33327	36.761	ug/l	99
38) Carbon Tetrachloride	8.07	117	95337	41.455	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	112255	39.302	ug/l	96
40) Benzene	8.32	78	242664	40.953	ug/l	100
41) Methacrylonitrile	7.48	41	18634	34.593	ug/l	97
42) 1,2-Dichloroethane	8.40	62	66443	39.233	ug/l	99
43) Isopropyl Acetate	8.43	43	66580	36.761	ug/l	98
44) Trichloroethene	9.09	130	72874	41.426	ug/l	100
45) 1,2-Dichloropropane	9.37	63	55886	39.712	ug/l	99
46) Dibromomethane	9.46	93	32313	39.262	ug/l	99
47) Bromodichloromethane	9.65	83	81873	39.587	ug/l	99
48) Methyl methacrylate	9.43	41	31286	37.759	ug/l	96
49) 1,4-Dioxane	9.45	88	10901	810.825	ug/l	97
51) 4-Methyl-2-Pentanone	10.21	43	171971	187.384	ug/l	99
52) Toluene	10.39	92	166822	41.922	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	79715	38.057	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	93243	38.978	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	47877	40.454	ug/l	96
56) Ethyl methacrylate	10.65	69	58412	35.786	ug/l	99
57) 1,3-Dichloropropane	10.93	76	79098	39.900	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	148017	204.736	ug/l	98
59) 2-Hexanone	10.97	43	119004	181.776	ug/l	100
60) Dibromochloromethane	11.13	129	58907	39.328	ug/l	100
61) 1,2-Dibromoethane	11.24	107	47395	39.533	ug/l	98
64) Tetrachloroethene	10.86	164	56467	40.380	ug/l	98
65) Chlorobenzene	11.66	112	175793	41.118	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	62396	40.742	ug/l	98
67) Ethyl Benzene	11.73	91	311103	41.216	ug/l	99
68) m/p-Xylenes	11.84	106	245138	82.799	ug/l	99
69) o-Xylene	12.16	106	116546	41.549	ug/l	97
70) Styrene	12.18	104	192051	40.352	ug/l	100
71) Bromoform	12.35	173	32246	38.234	ug/l #	99
73) Isopropylbenzene	12.46	105	311991	41.229	ug/l	100
74) N-amyl acetate	12.27	43	52597	30.331	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	54547	39.630	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	37967m	39.222	ug/l	
77) Bromobenzene	12.75	156	71141	42.010	ug/l	98
78) n-propylbenzene	12.80	91	353198	40.050	ug/l	100
79) 2-Chlorotoluene	12.90	91	205340	40.151	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	260110	40.584	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	16949	36.543	ug/l	97
82) 4-Chlorotoluene	12.99	91	213287	40.179	ug/l	99
83) tert-Butylbenzene	13.21	119	223792	39.974	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	253939	39.782	ug/l	99
85) sec-Butylbenzene	13.38	105	309361	39.487	ug/l	99
86) p-Isopropyltoluene	13.50	119	277336	39.109	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	133653	40.228	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	134036	40.209	ug/l	99
89) n-Butylbenzene	13.82	91	255479	37.876	ug/l	100
90) Hexachloroethane	14.10	117	53336	38.858	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	122971	40.621	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	9688	37.854	ug/l	97

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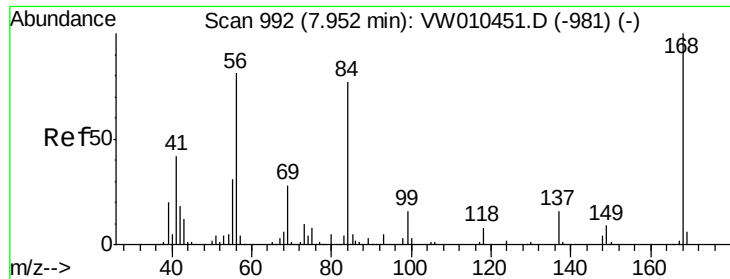
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	74412	36.127	ug/l	99
94) Hexachlorobutadiene	15.24	225	40011	36.362	ug/l	100
95) Naphthalene	15.37	128	156178	36.122	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	63322	35.728	ug/l	99

(#) = 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. -0.01 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:168 Resp: 132368

Ion Ratio Lower Upper

168 100

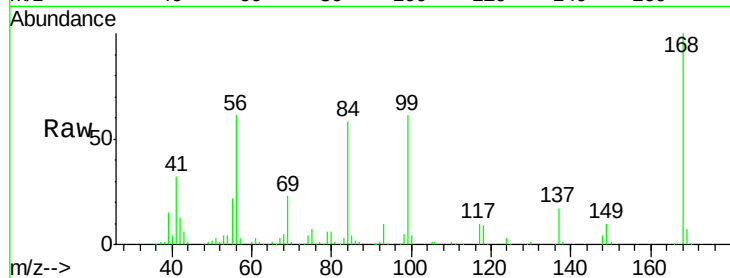
99 60.9 46.1 69.1

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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

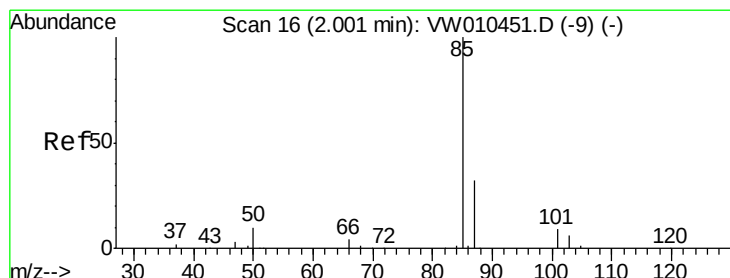
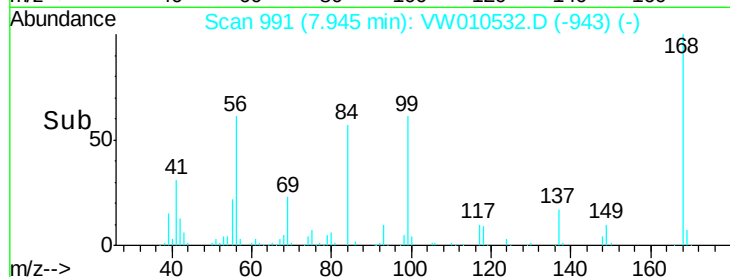
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 39.012 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW010532.D

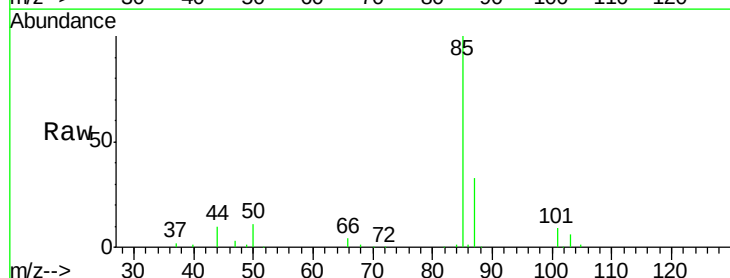
Acq: 23 May 2019 16:15

Tgt Ion: 85 Resp: 46078

Ion Ratio Lower Upper

85 100

87 33.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

30000

25000

20000

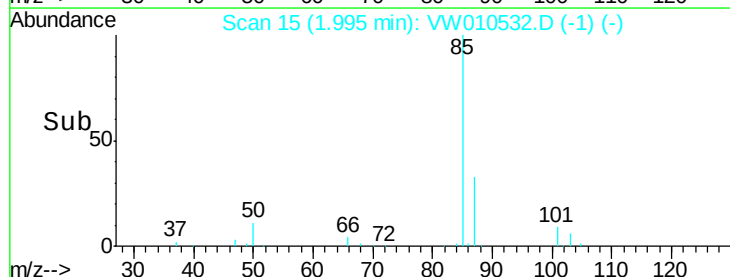
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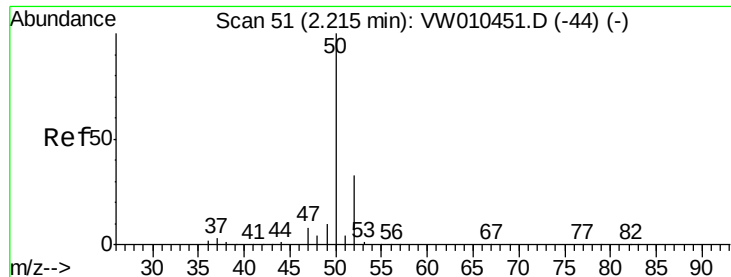
10000

5000

0

Time-->





#3

Chloromethane

Concen: 35.911 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 50 Resp: 49943

Ion Ratio Lower Upper

50 100

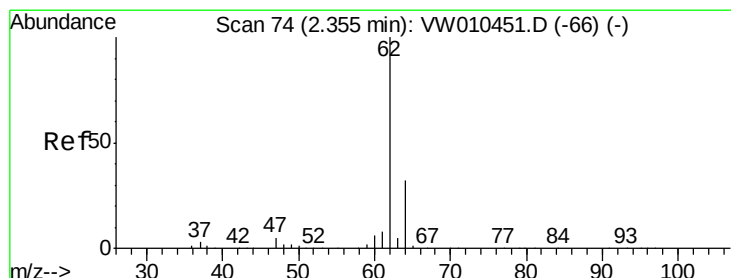
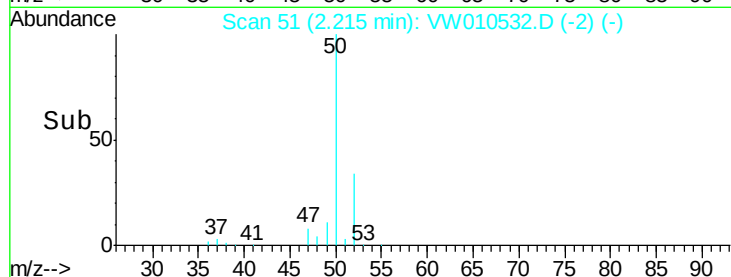
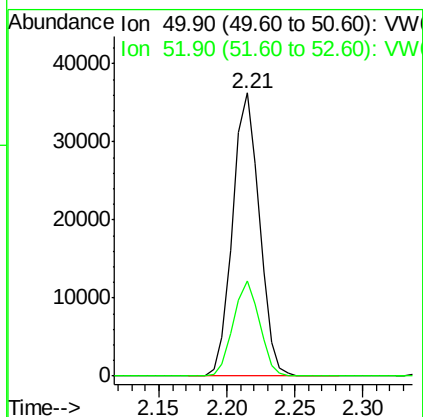
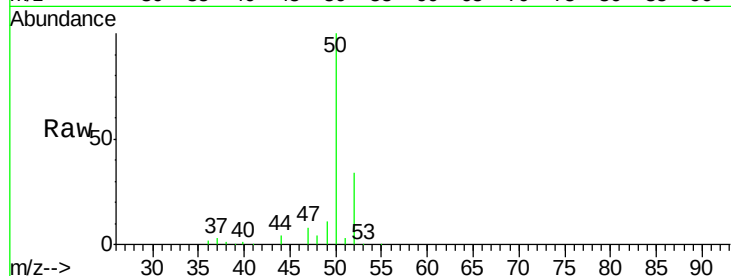
52 33.6 26.3 39.5

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#4

Vinyl Chloride

Concen: 35.709 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.01 min

Lab File: VW010532.D

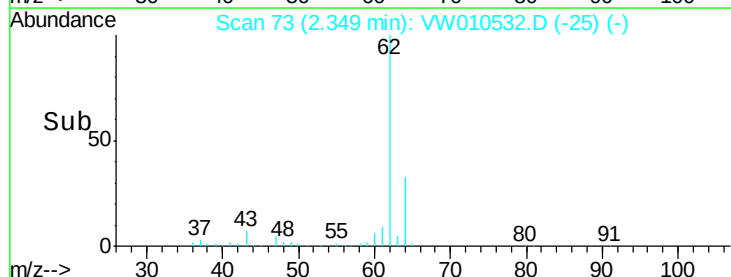
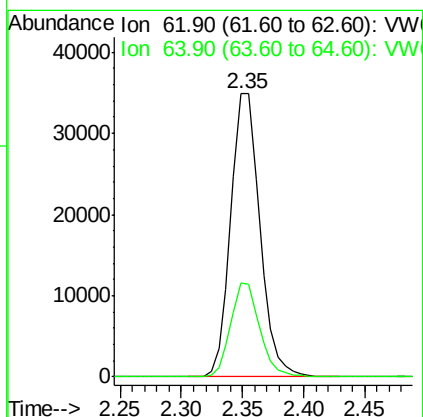
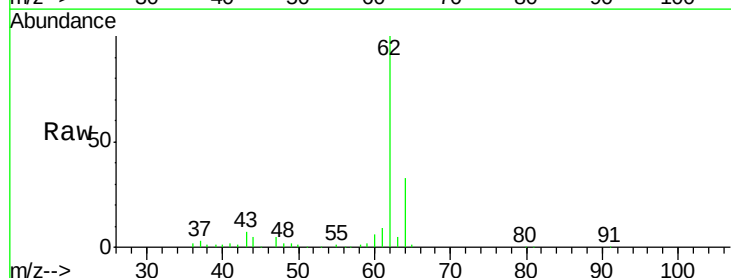
Acq: 23 May 2019 16:15

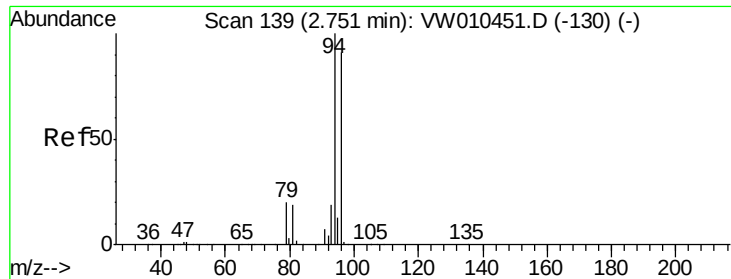
Tgt Ion: 62 Resp: 57525

Ion Ratio Lower Upper

62 100

64 33.3 25.8 38.8





#5

Bromomethane

Concen: 35.308 ug/l

RT: 2.75 min Scan# 138

Delta R.T. -0.01 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 94 Resp: 39130

Ion Ratio Lower Upper

94 100

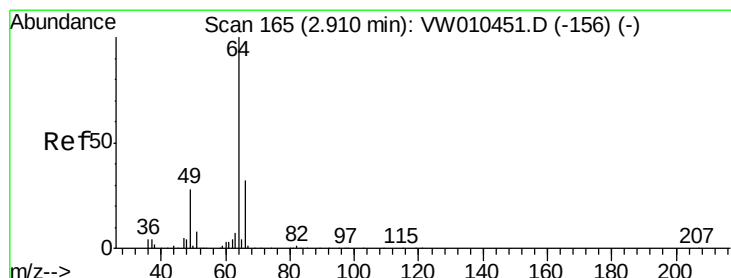
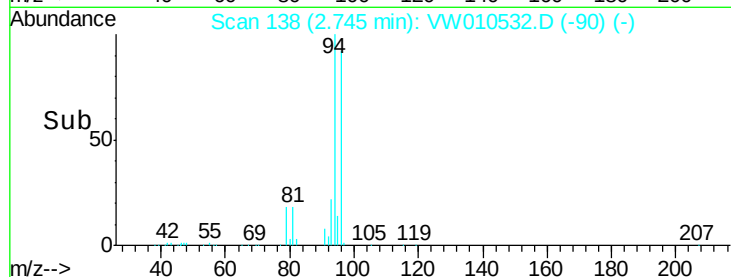
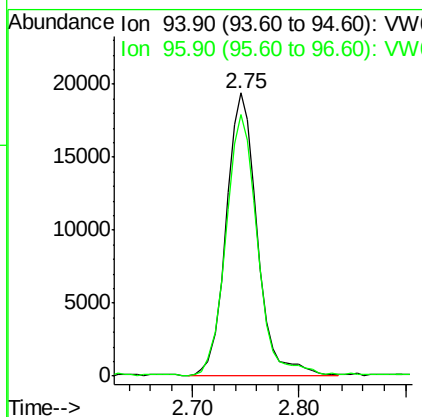
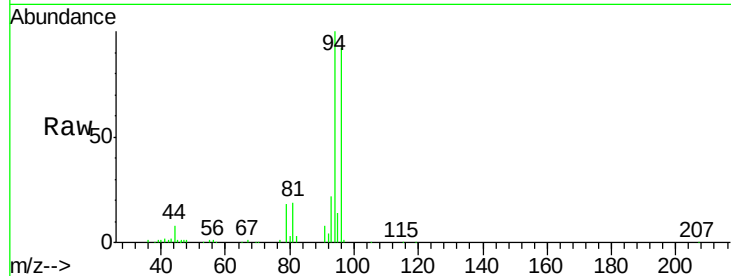
96 92.3 72.9 109.3

Manual Integrations

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#6

Chloroethane

Concen: 37.731 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW010532.D

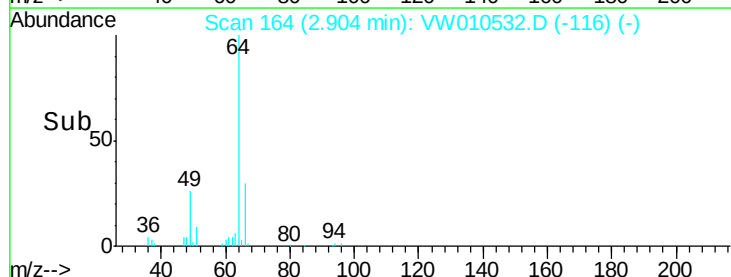
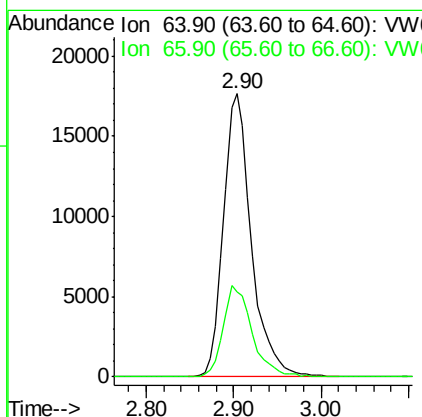
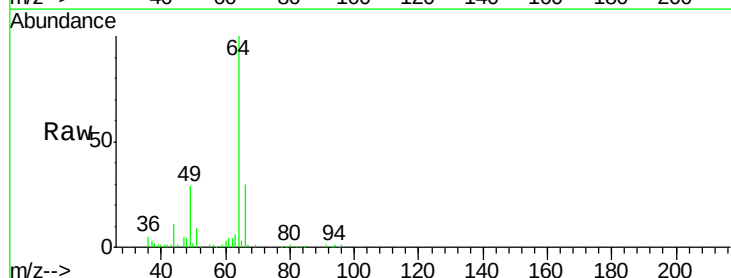
Acq: 23 May 2019 16:15

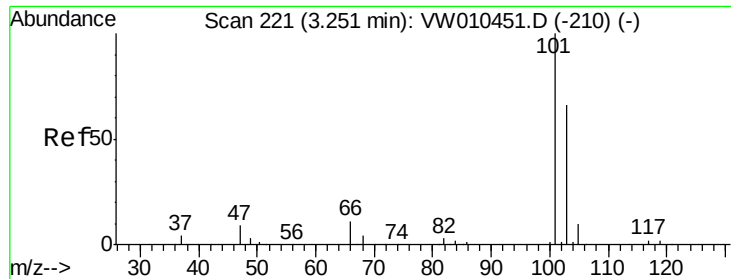
Tgt Ion: 64 Resp: 39019

Ion Ratio Lower Upper

64 100

66 30.1 25.5 38.3





#7

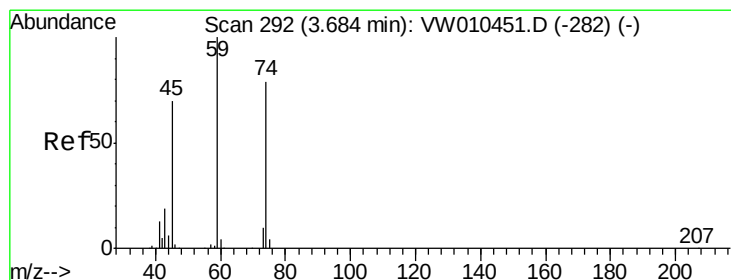
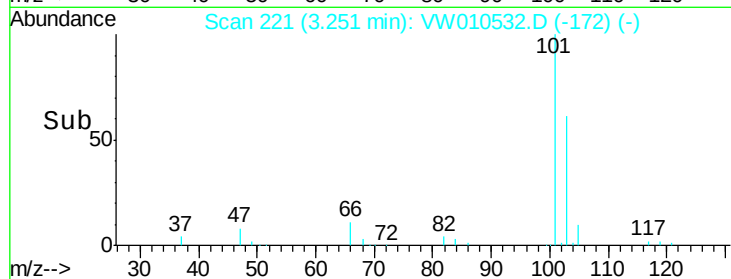
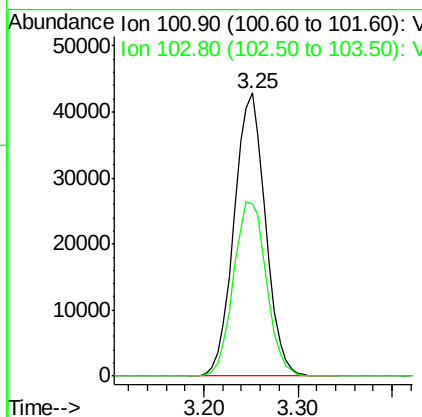
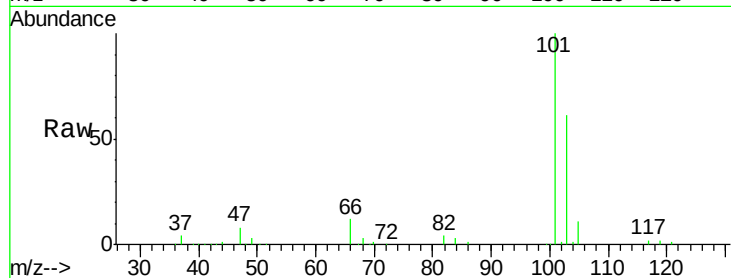
Trichlorofluoromethane
Concen: 41.802 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
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FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.9	53.0	79.4

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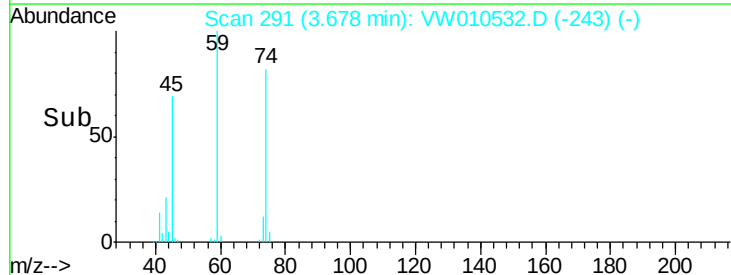
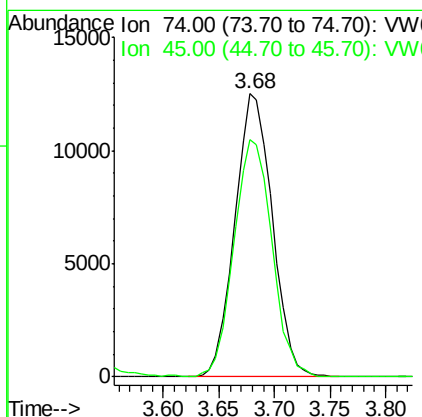
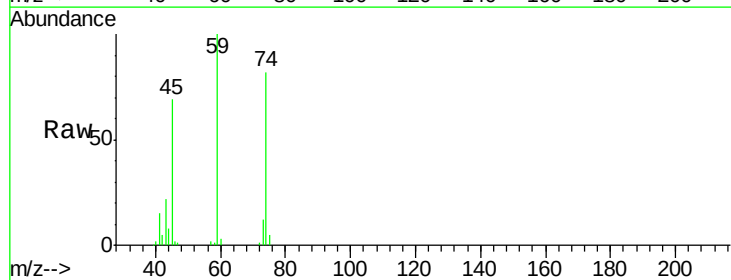
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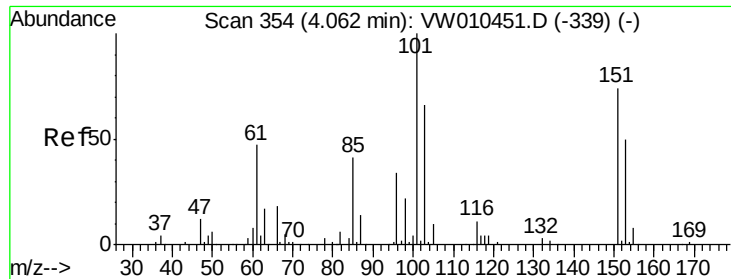


#8

Diethyl Ether
Concen: 38.716 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
74	100		
45	85.3	42.9	128.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.272 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

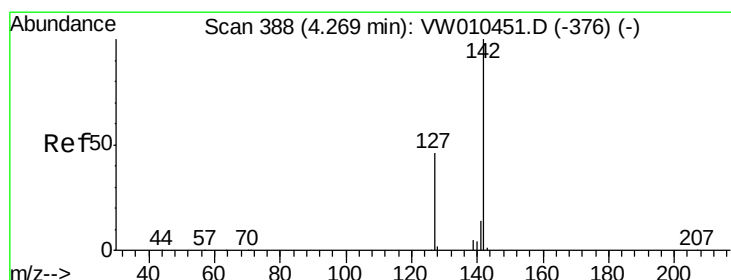
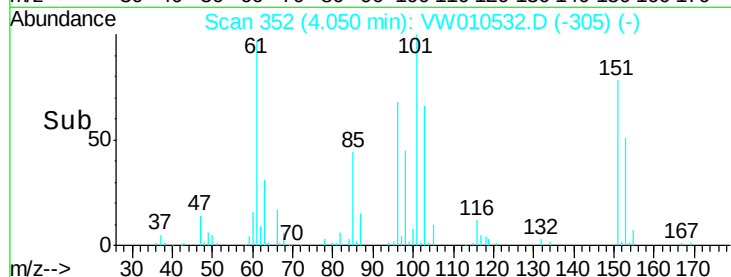
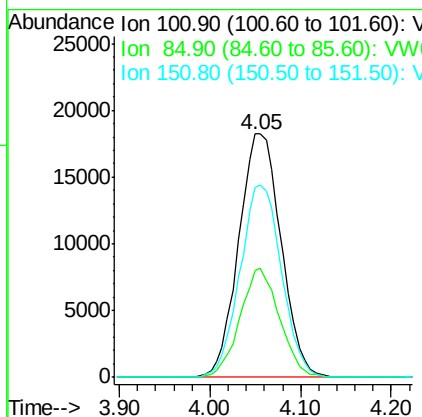
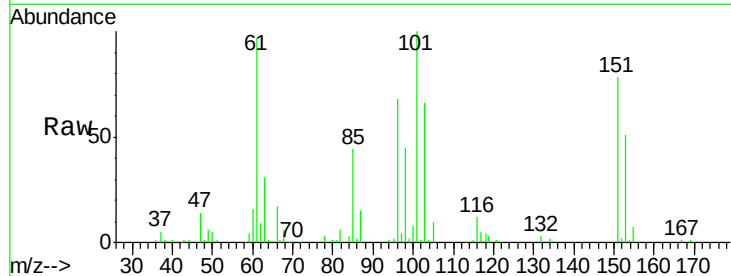
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	101	Resp:	58986
Ion Ratio	Lower	Upper	
101	100		
85	41.7	34.3	51.5
151	77.5	60.3	90.5

Manual Integrations
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#10

Methyl Iodide

Concen: 38.579 ug/l

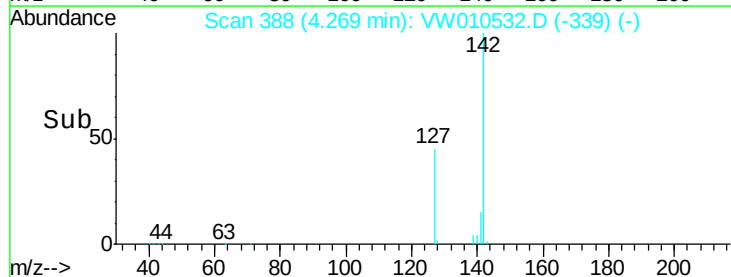
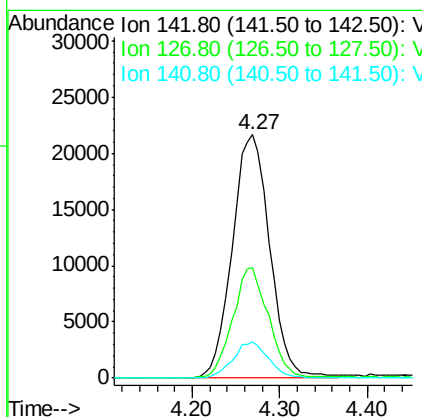
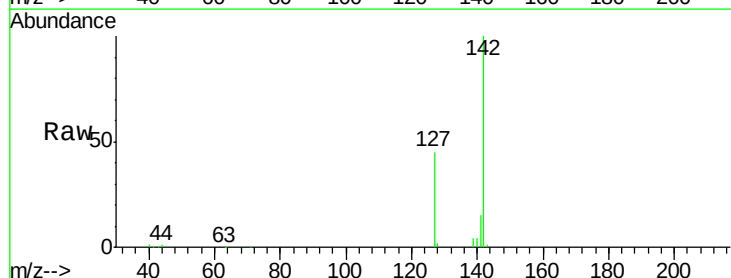
RT: 4.27 min Scan# 388

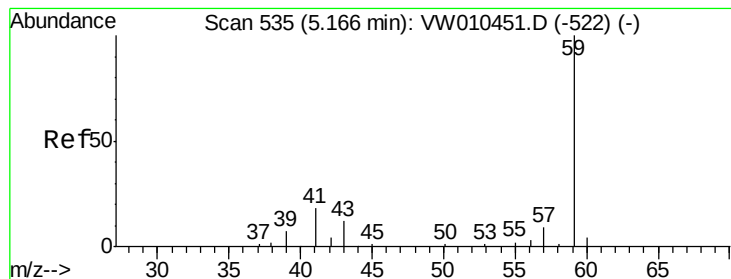
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	142	Resp:	64585
Ion Ratio	Lower	Upper	
142	100		
127	43.3	36.1	54.1
141	13.9	11.3	16.9





#11

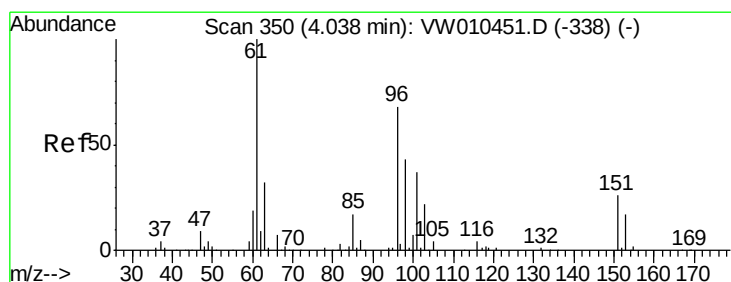
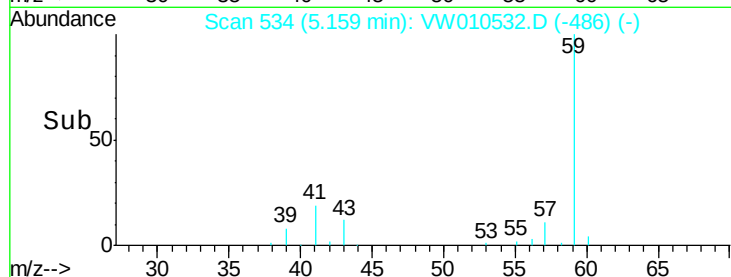
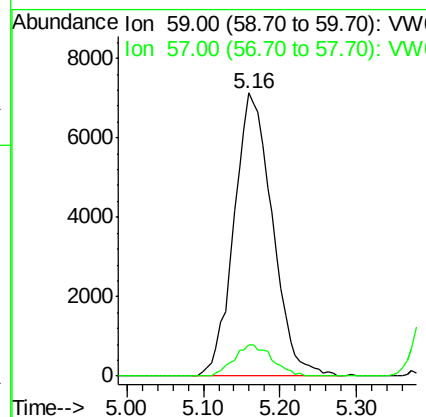
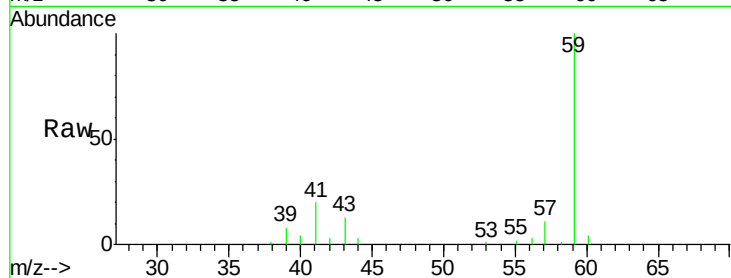
Tert butyl alcohol
 Concen: 201.311 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.8	13.2

Manual Integrations
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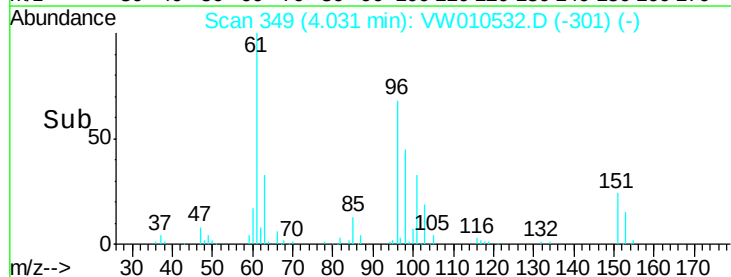
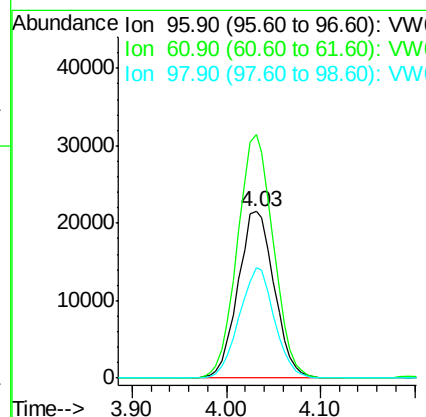
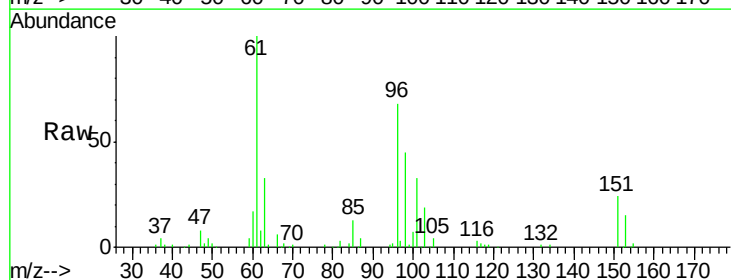
MMDadoda
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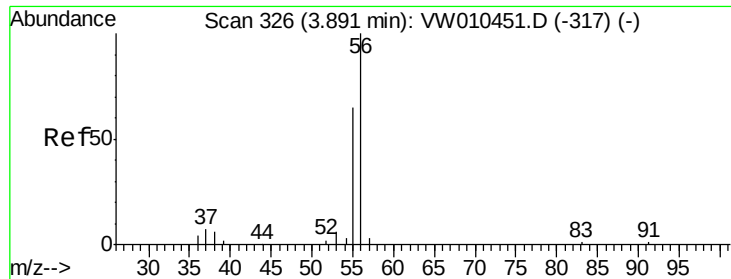


#12

1,1-Dichloroethene
 Concen: 41.234 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.1	118.3	177.5
98	66.3	51.0	76.6





#13

Acrolein

Concen: 294.154 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 56 Resp: 20782

Ion Ratio Lower Upper

56 100

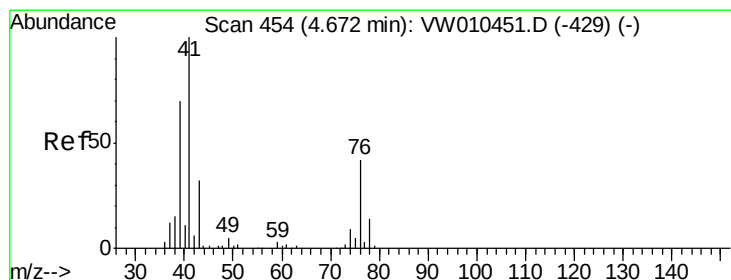
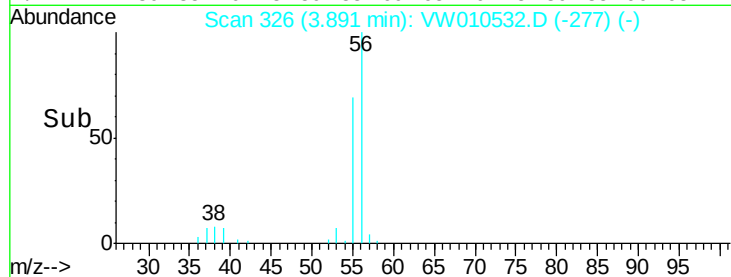
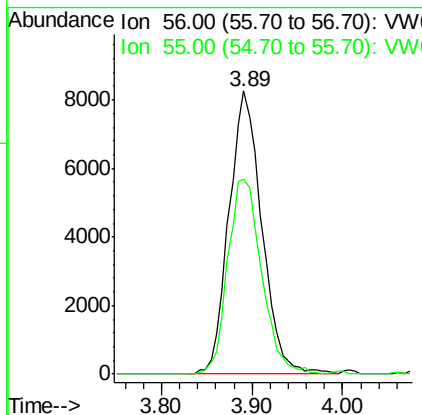
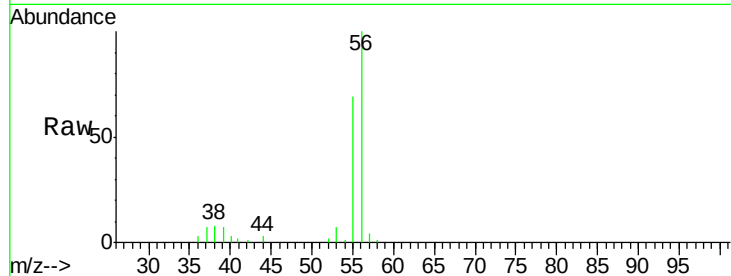
55 71.1 57.9 86.9

Manual Integrations

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#14

Allyl chloride

Concen: 39.259 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

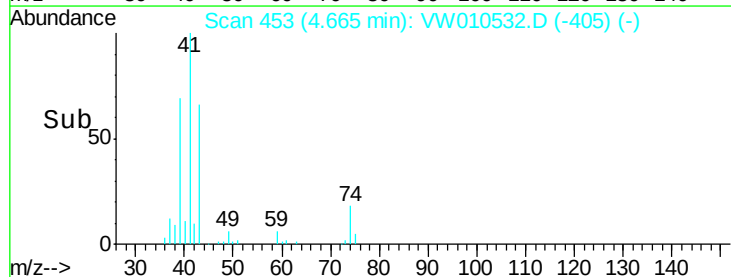
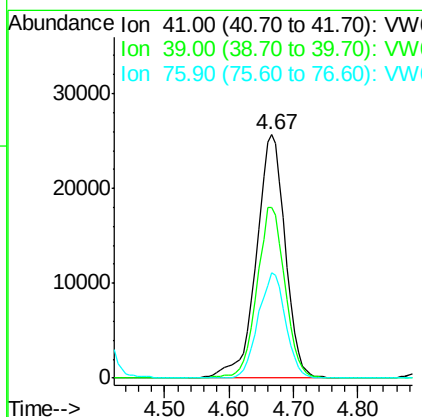
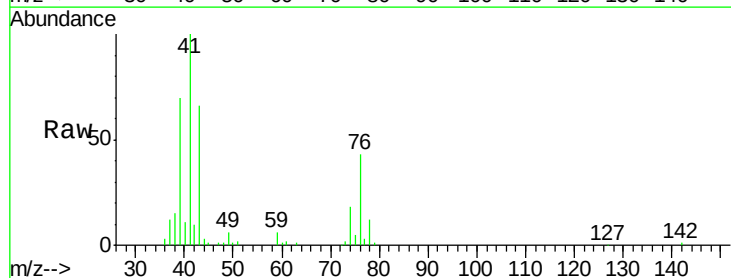
Tgt Ion: 41 Resp: 79454

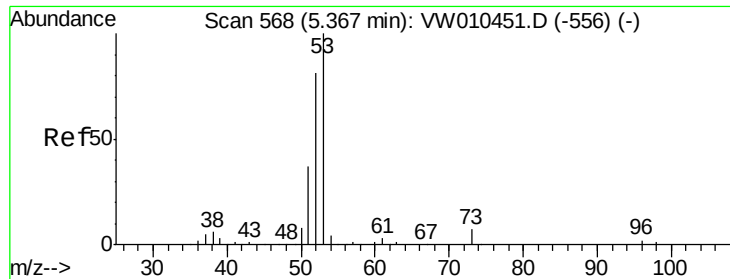
Ion Ratio Lower Upper

41 100

39 68.2 55.0 82.4

76 40.9 32.8 49.2





#15

Acrylonitrile

Concen: 188.221 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

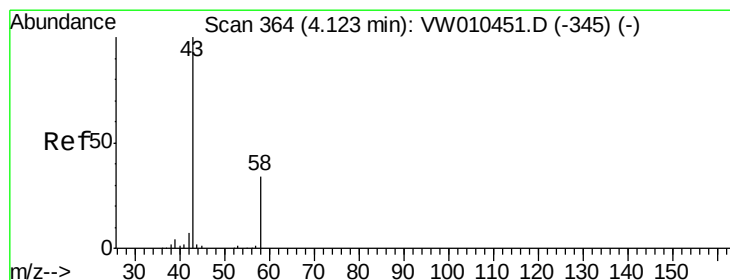
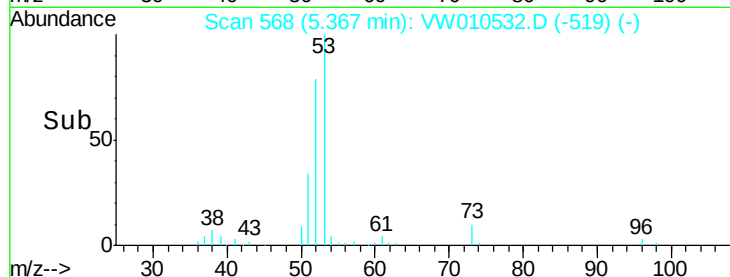
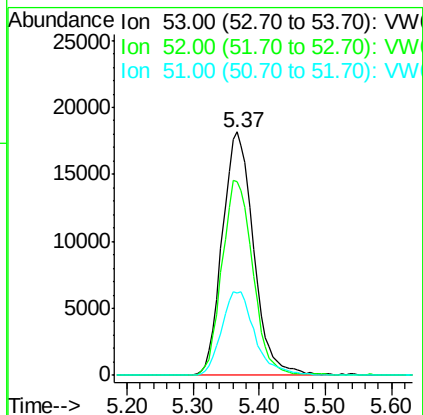
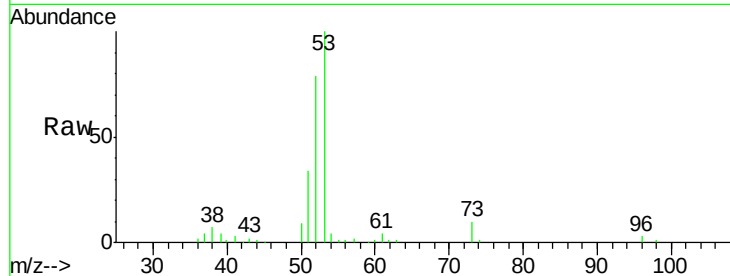
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	53	Resp:	59429
Ion	Ratio	Lower	Upper
53	100		
52	78.6	65.6	98.4
51	36.7	29.5	44.3

Manual Integrations
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#16

Acetone

Concen: 172.767 ug/l

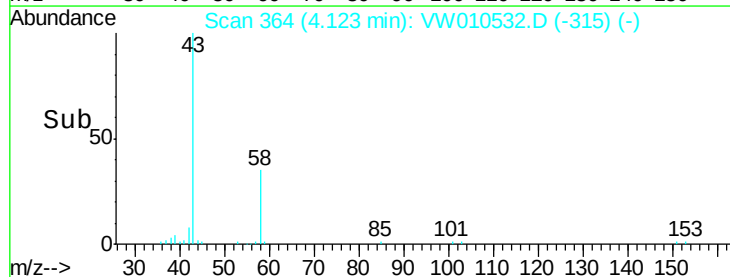
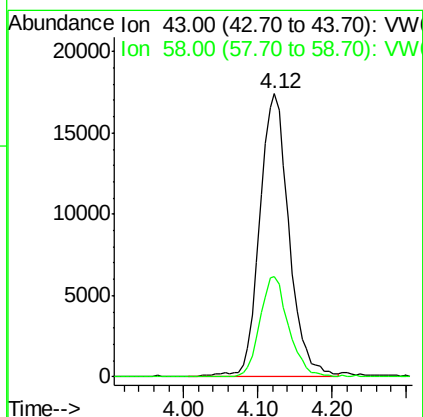
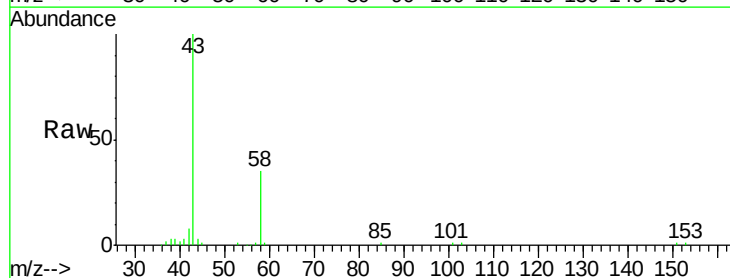
RT: 4.12 min Scan# 364

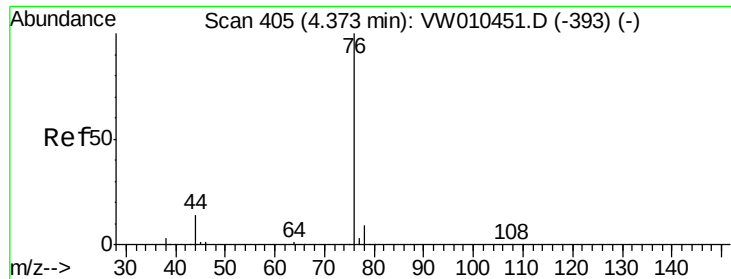
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	43	Resp:	48182
Ion	Ratio	Lower	Upper
43	100		
58	34.9	27.0	40.4





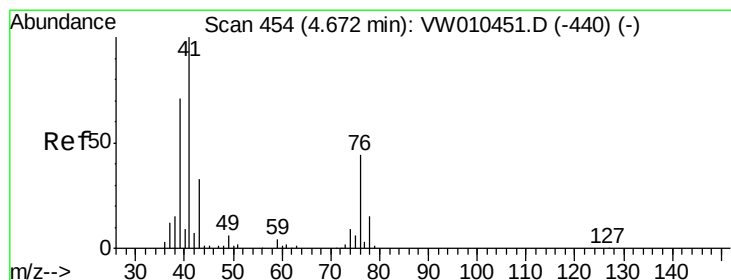
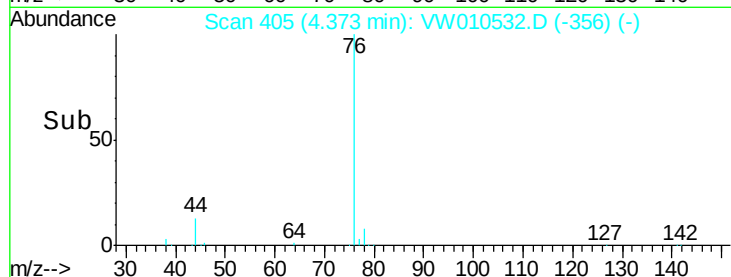
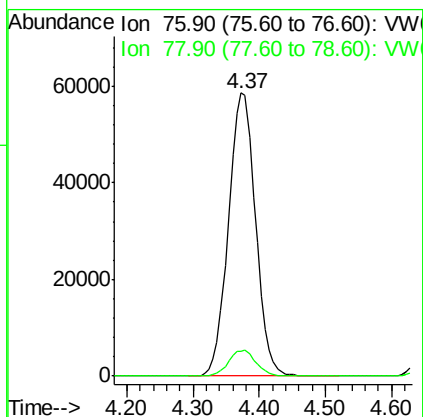
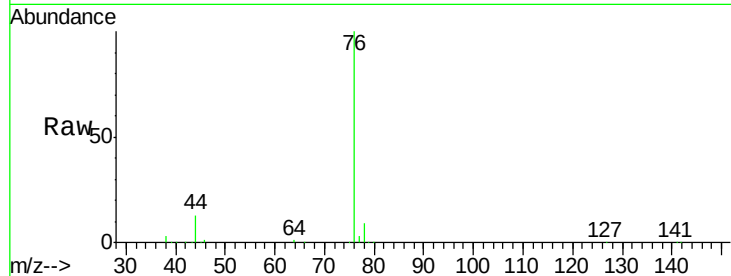
#17
Carbon Disulfide
Concen: 39.811 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.1	10.7

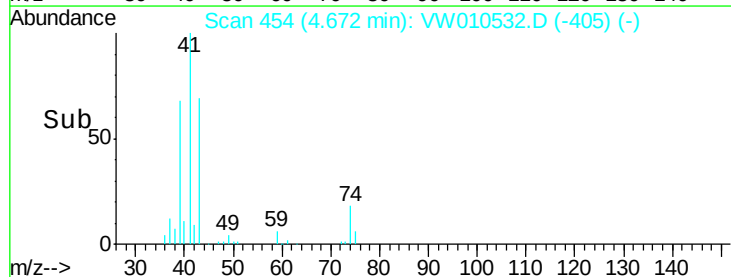
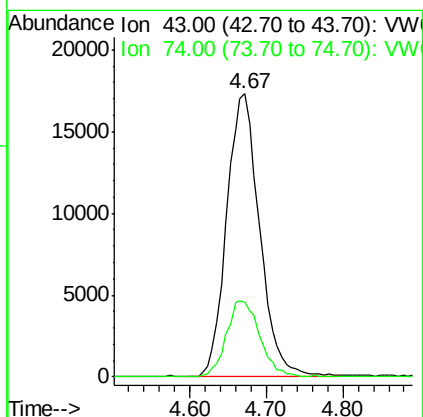
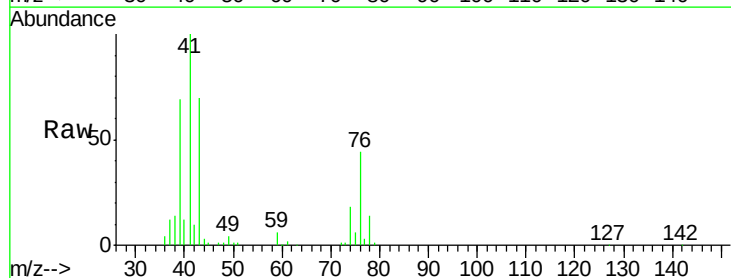
Manual Integrations
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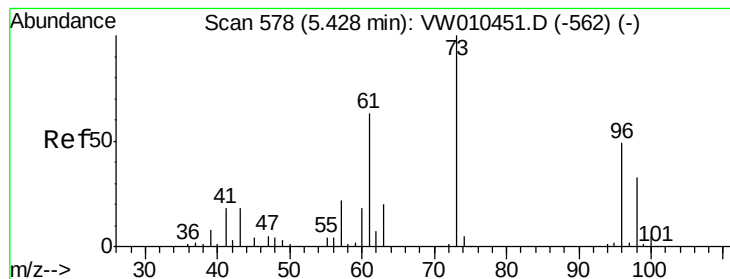
MMDadoda
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#18
Methyl Acetate
Concen: 75.942 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.6	32.4





#19

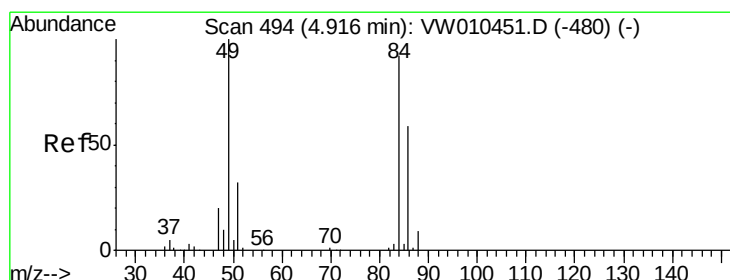
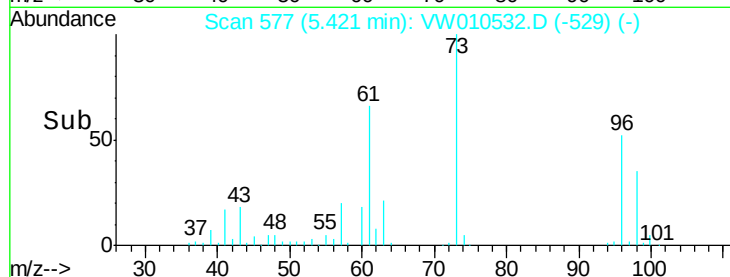
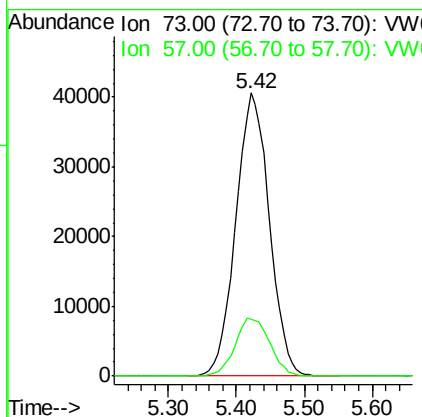
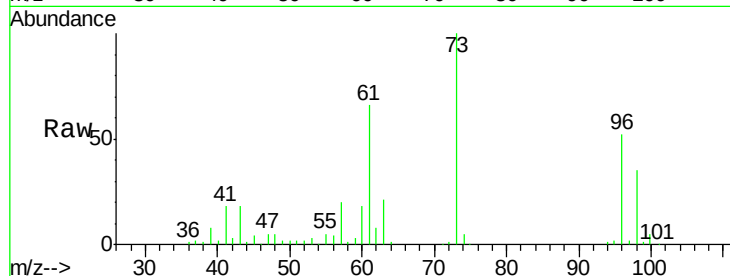
Methyl tert-butyl Ether
 Concen: 39.038 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.01 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Tot Ion	73	Resp	139145
Ion Ratio	100	Lower	Upper
57	20.2	17.4	26.0

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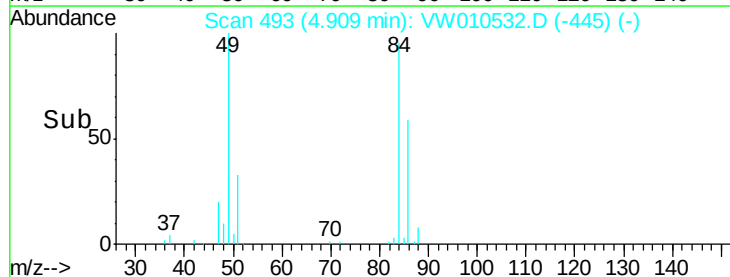
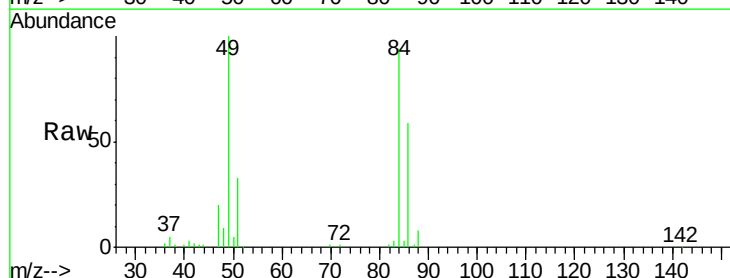
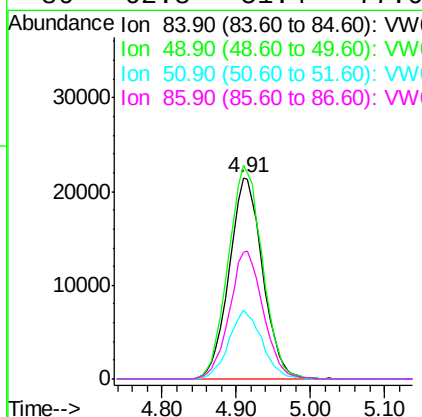
MMDadoda
 5/24/2019 10:44:24 PM

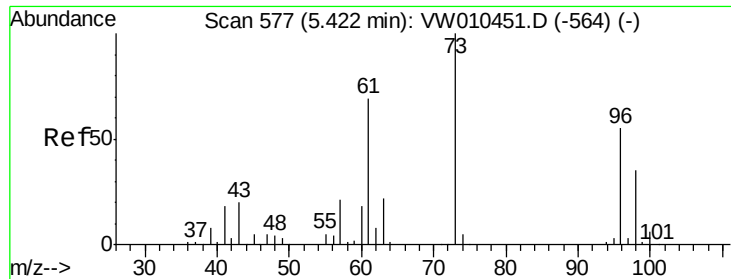


#20

Methylene Chloride
 Concen: 40.372 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Tgt Ion	84	Resp	67661
Ion Ratio	100	Lower	Upper
49	106.1	87.2	130.8
51	34.5	27.7	41.5
86	62.8	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 41.046 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

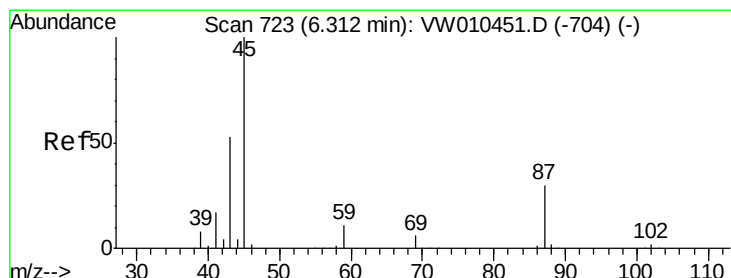
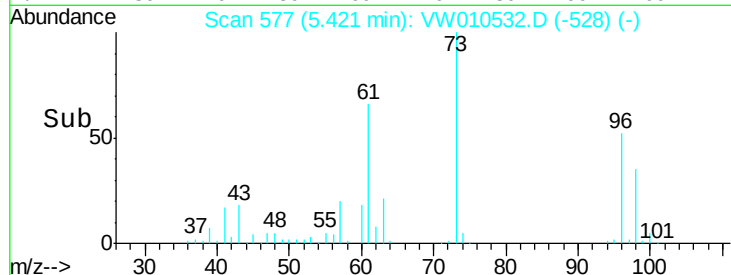
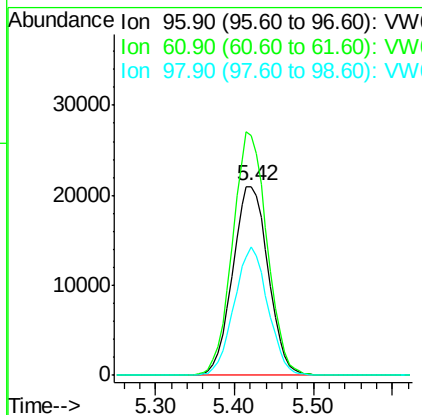
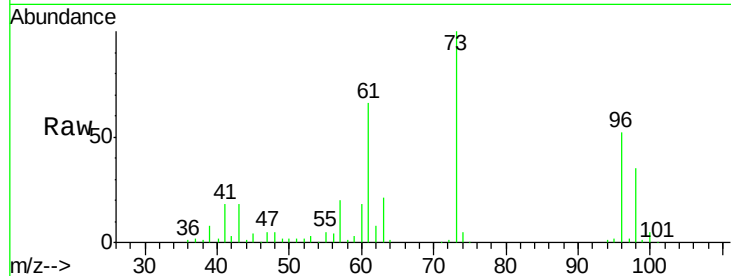
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	96	Resp:	65827
Ion	Ratio	Lower	Upper
96	100		
61	126.8	101.4	152.0
98	68.0	50.6	76.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 38.204 ug/l

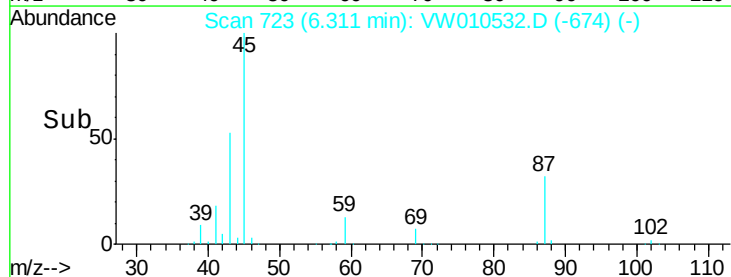
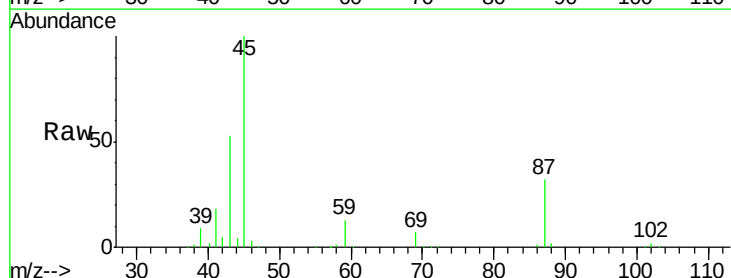
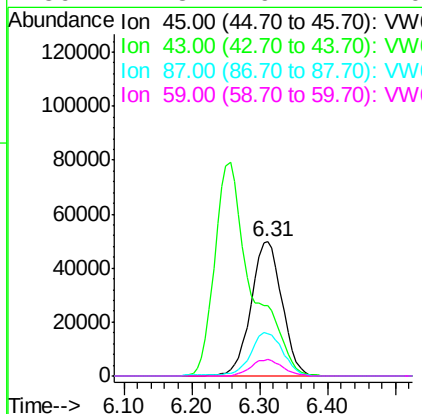
RT: 6.31 min Scan# 723

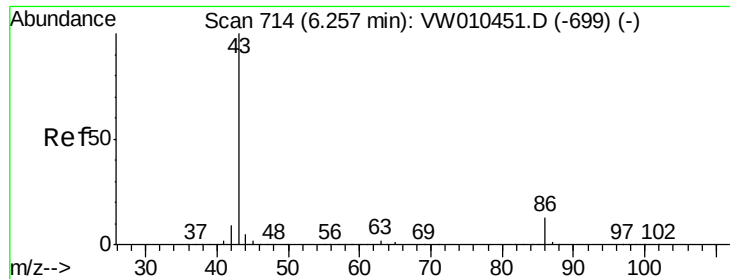
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	45	Resp:	158539
Ion	Ratio	Lower	Upper
45	100		
43	52.4	42.9	64.3
87	31.9	24.6	36.8
59	12.8	9.4	14.0





#23

Vinyl Acetate

Concen: 120.582 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 43 Resp: 298903

Ion Ratio Lower Upper

43 100

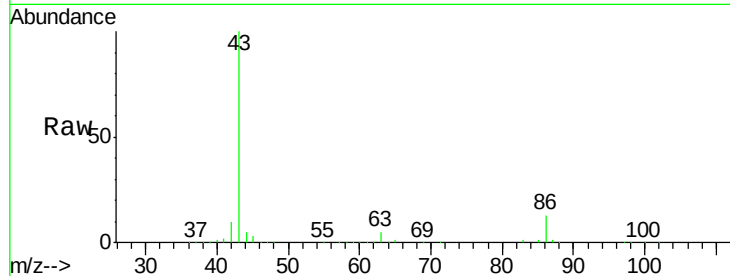
86 12.8 10.3 15.5

Manual Integrations

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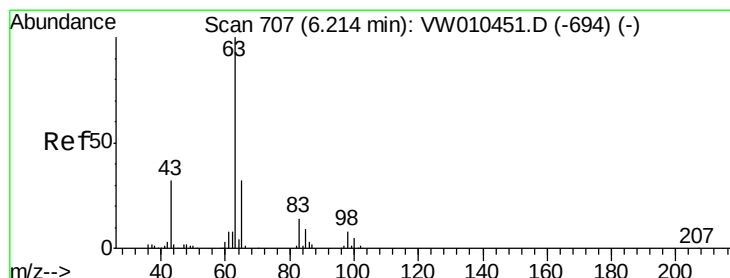
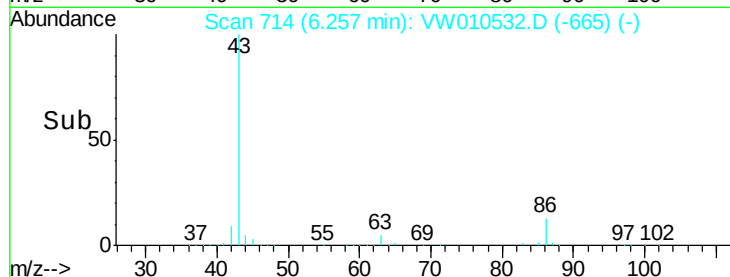
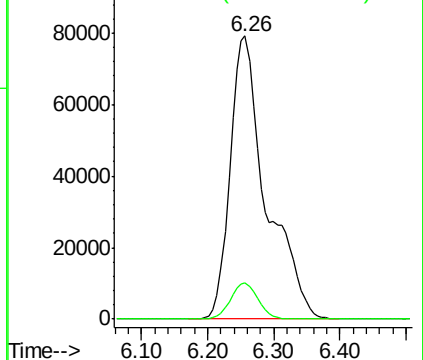
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 41.036 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

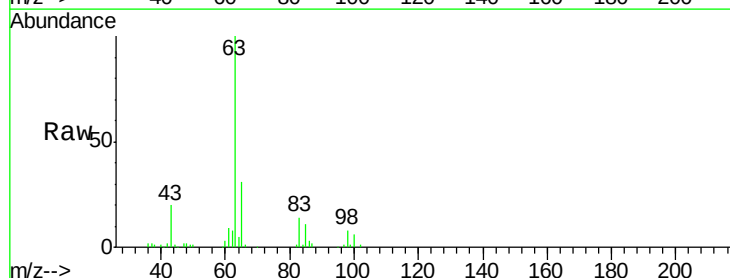
Tgt Ion: 63 Resp: 101622

Ion Ratio Lower Upper

63 100

98 8.4 3.8 11.2

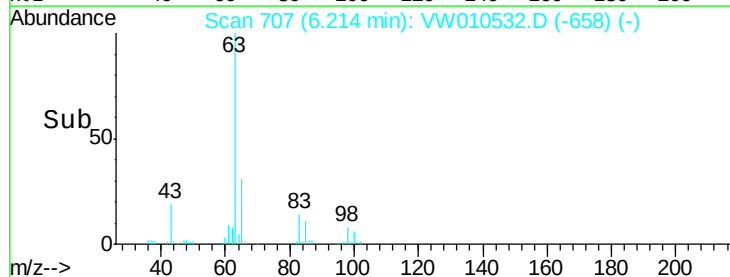
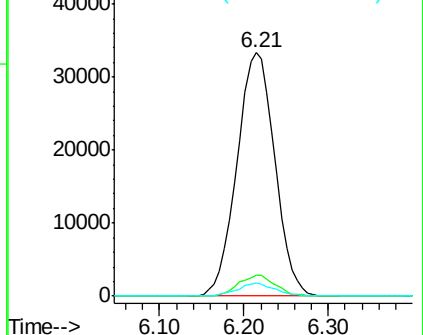
100 5.7 2.5 7.4

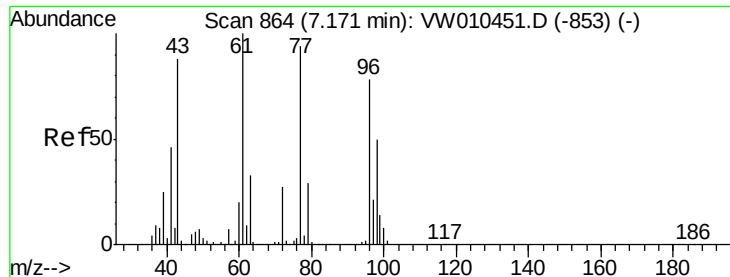


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 180.021 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 43 Resp: 71848

Ion Ratio Lower Upper

43 100

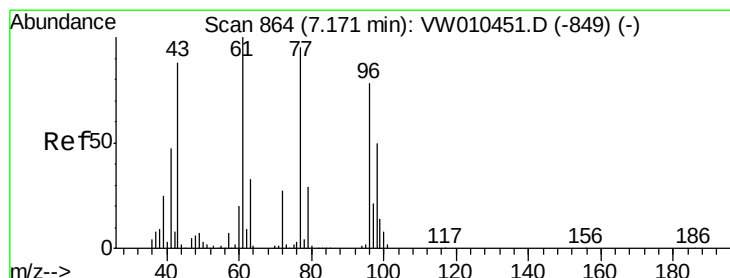
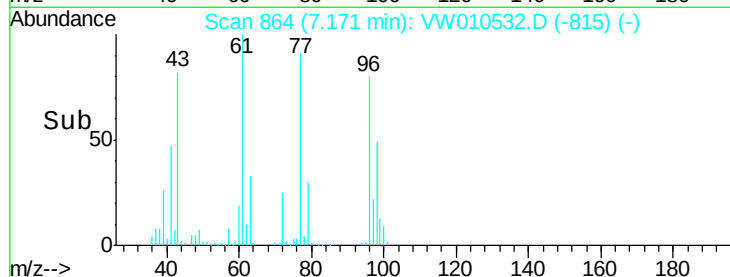
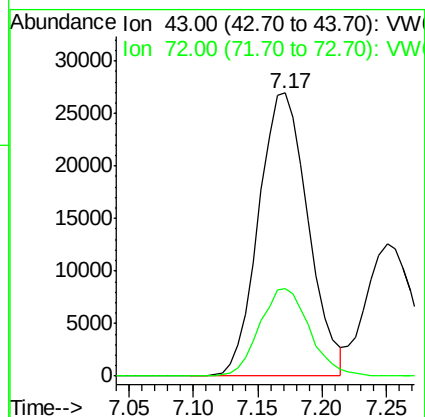
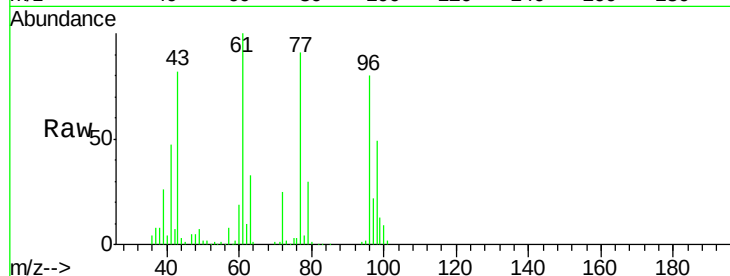
72 30.9 24.1 36.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 39.197 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW010532.D

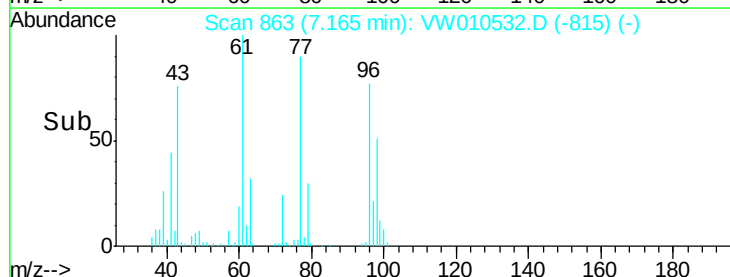
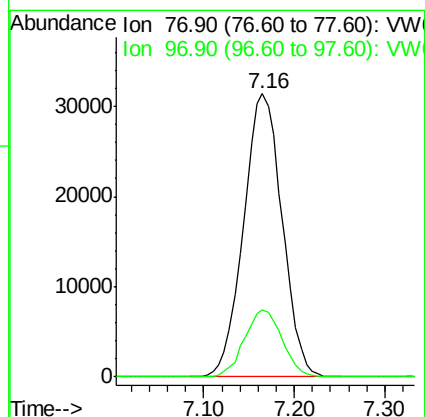
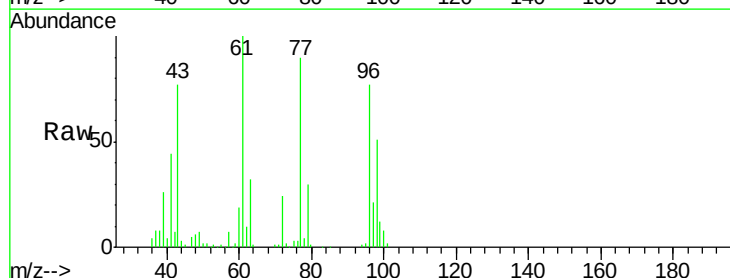
Acq: 23 May 2019 16:15

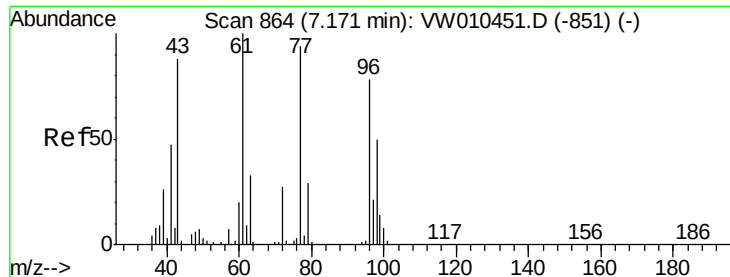
Tgt Ion: 77 Resp: 92461

Ion Ratio Lower Upper

77 100

97 23.2 11.7 35.0





#27

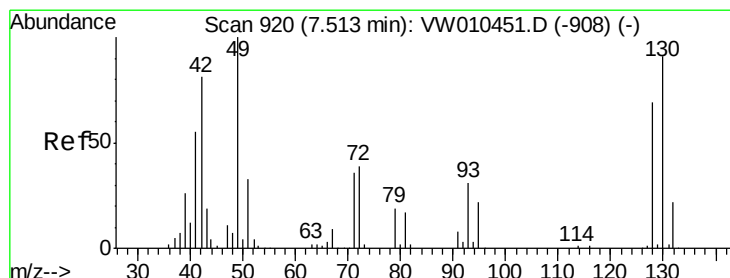
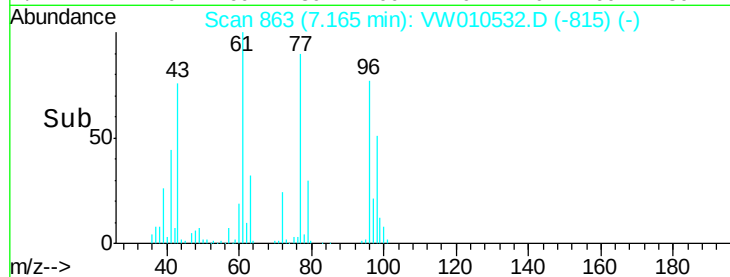
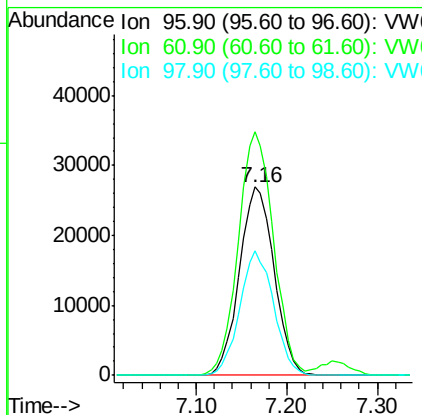
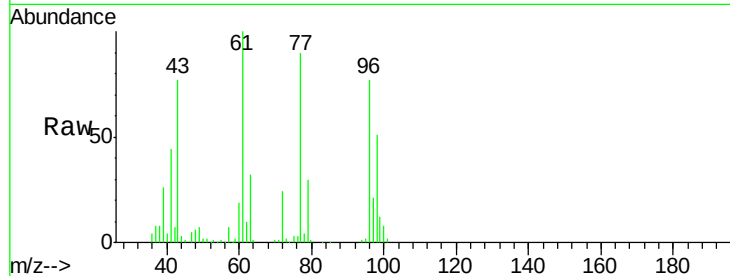
cis-1,2-Dichloroethene
Concen: 40.951 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.0	0.0	265.4
98	64.6	0.0	129.4

Manual Integrations
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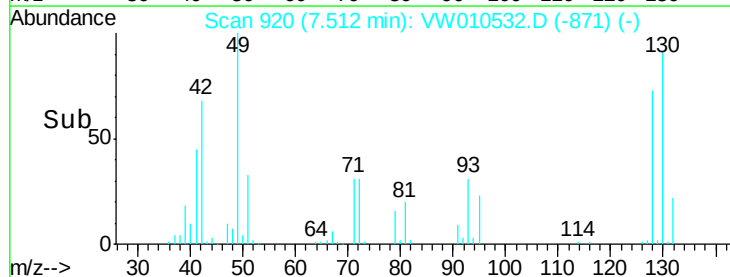
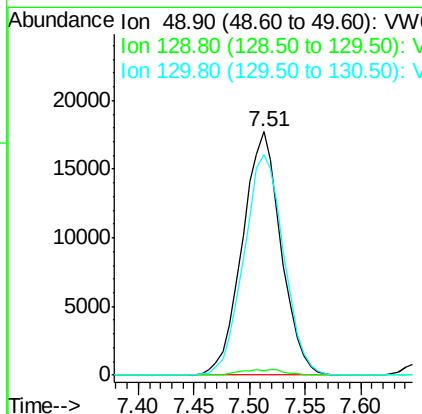
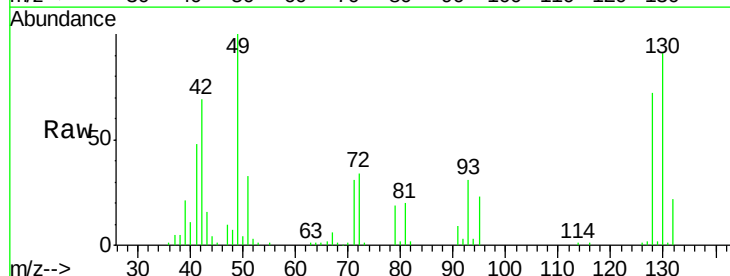
MMDadoda
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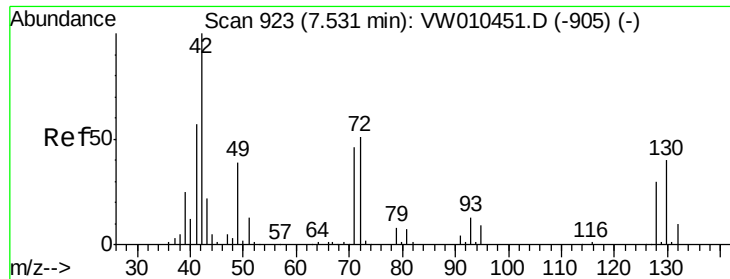


#28

Bromochloromethane
Concen: 48.232 ug/l
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.8
130	93.7	71.2	106.8





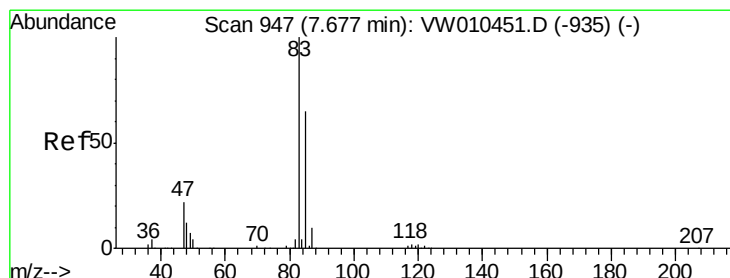
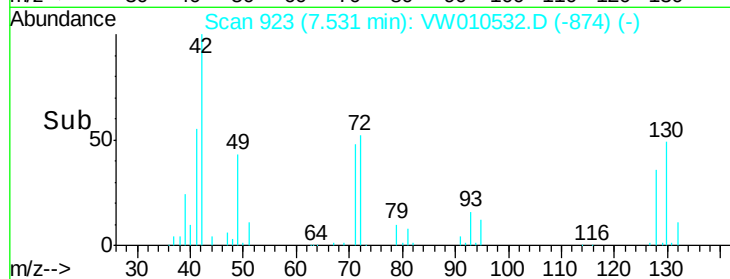
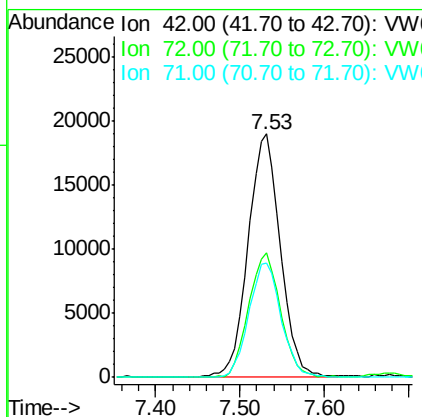
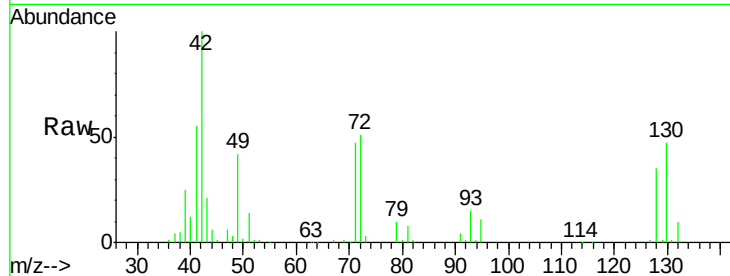
#29
Tetrahydrofuran
Concen: 183.035 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	50.6	38.5	57.7
71	46.8	36.5	54.7

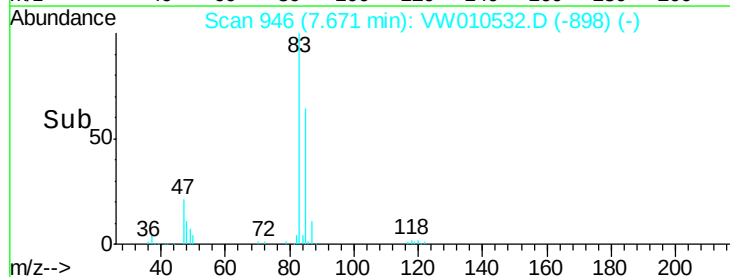
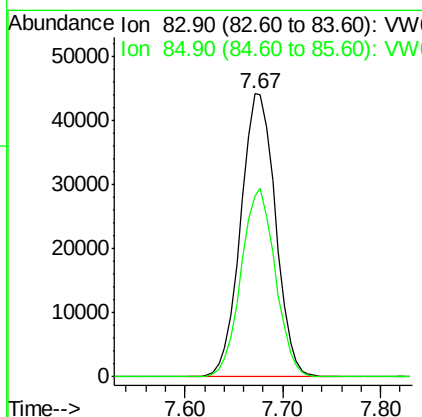
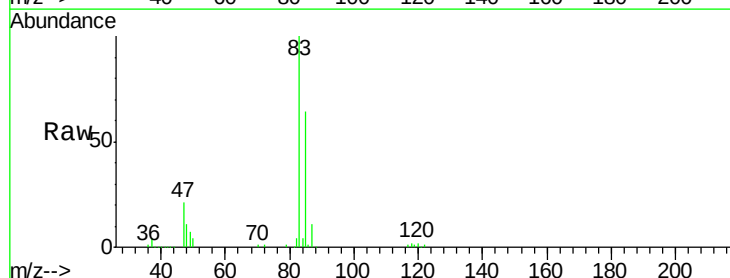
Manual Integrations
APPROVED

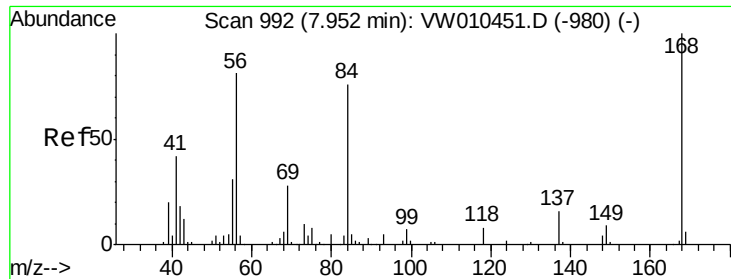
MMDadoda
5/24/2019 10:44:24 PM



#30
Chloroform
Concen: 40.786 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.2	78.4





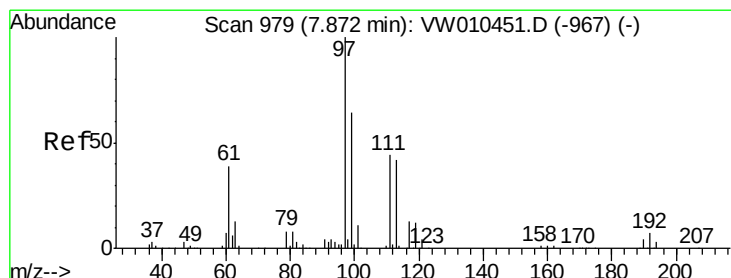
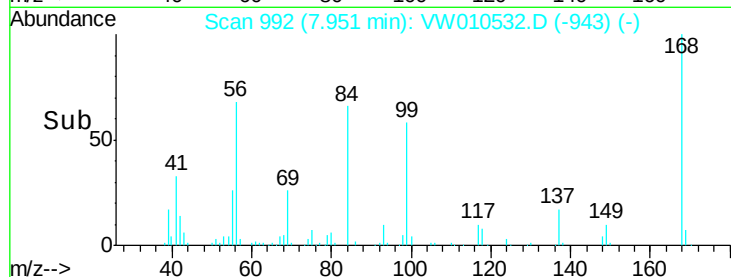
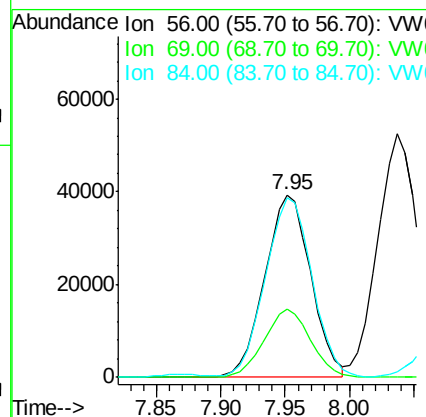
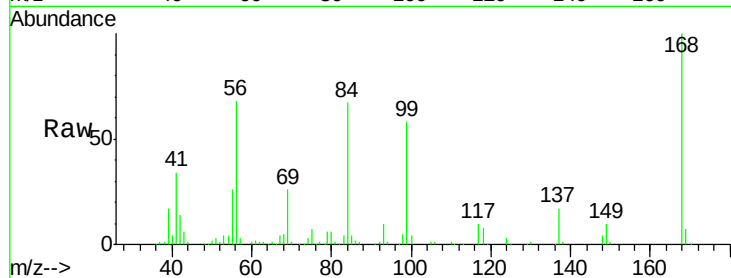
#31
Cyclohexane
Concen: 37.629 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	56	69	84
Ion	56	69	84
Ratio	100	37.6	96.7
Lower		28.2	75.8
Upper		42.2	113.8

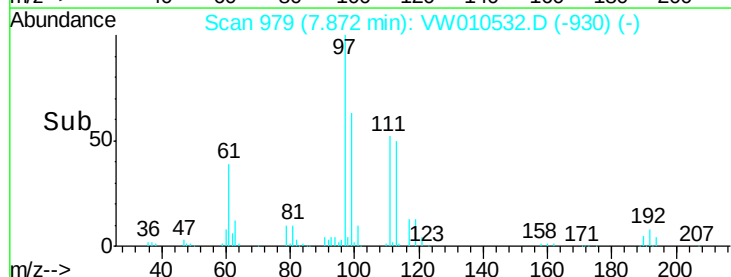
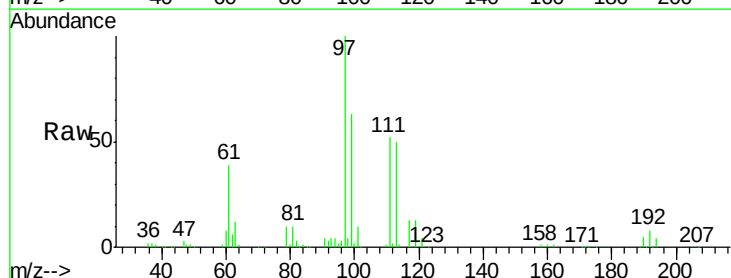
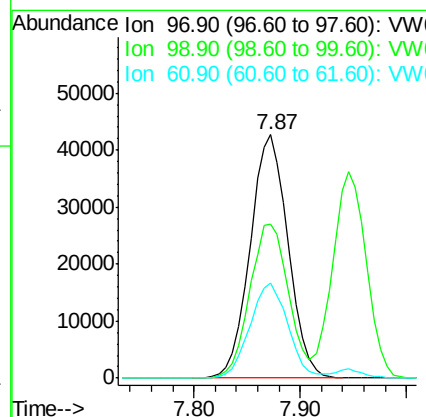
Manual Integrations
APPROVED

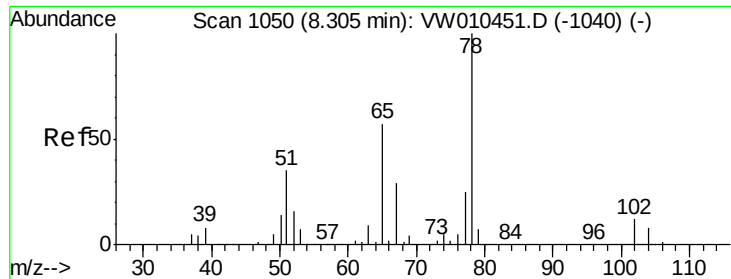
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 41.700 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	97	99	61
Ion	97	99	61
Ratio	100	64.9	39.4
Lower		50.8	32.1
Upper		76.2	48.1





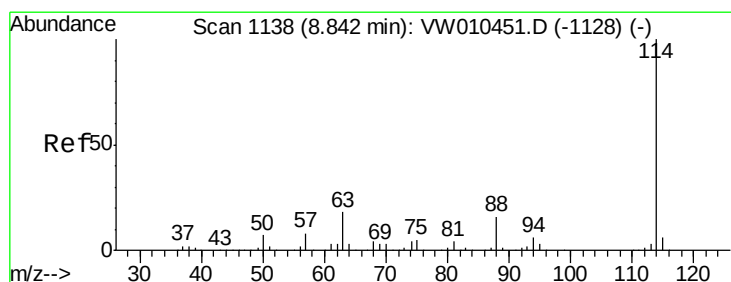
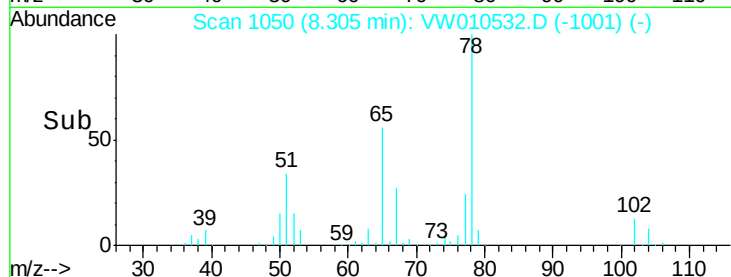
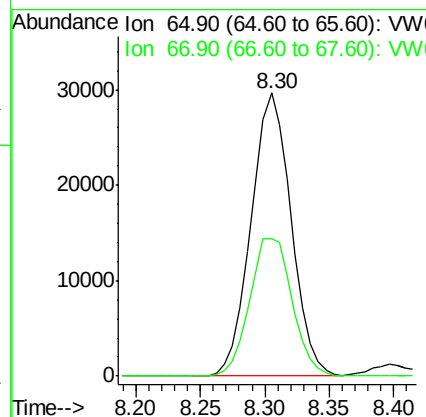
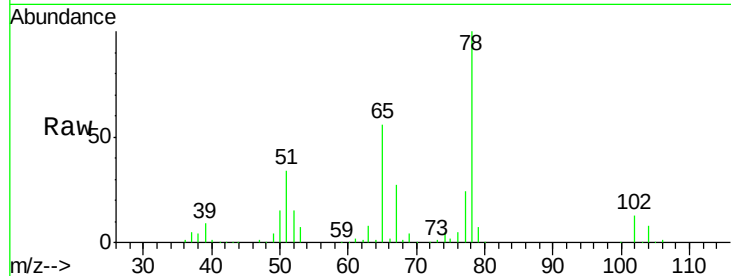
#33
 1,2-Dichloroethane-d4
 Concen: 46.692 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	63793		
67	51.7	0.0	103.6	

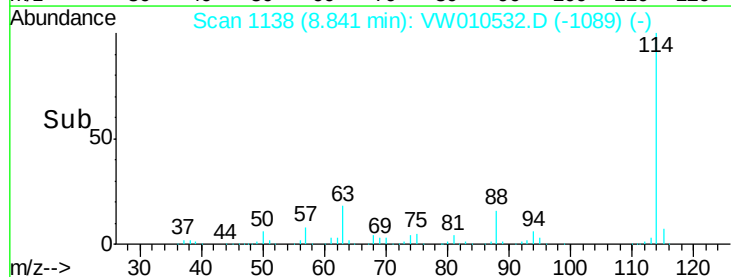
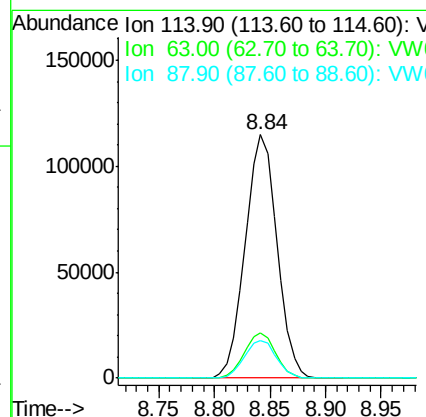
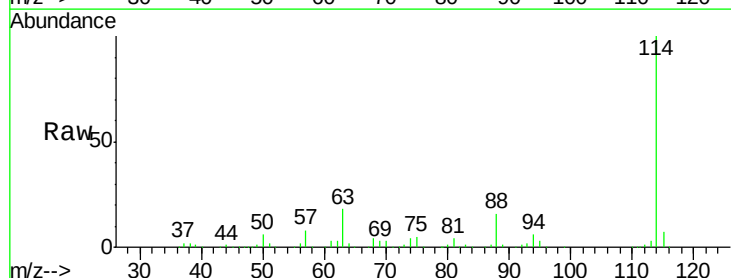
Manual Integrations
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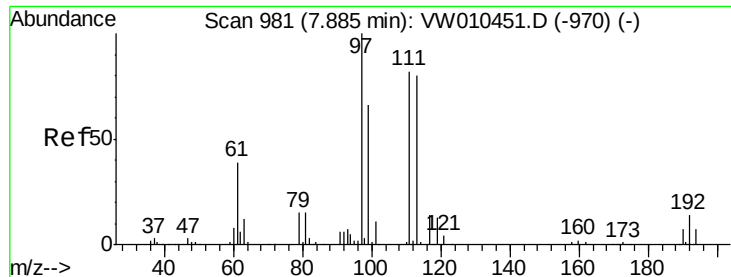
MMDadoda
 5/24/2019 10:44:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	228853		
63	18.4	0.0	36.0	
88	15.5	0.0	32.0	





#35

Dibromofluoromethane

Concen: 47.990 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

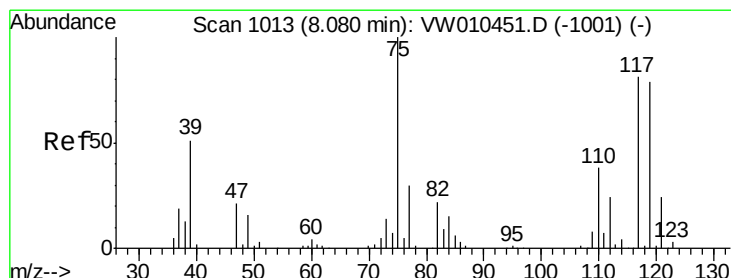
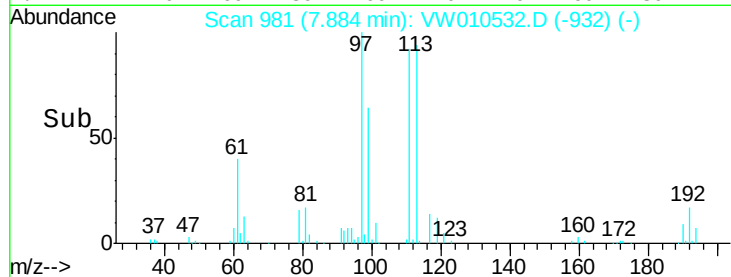
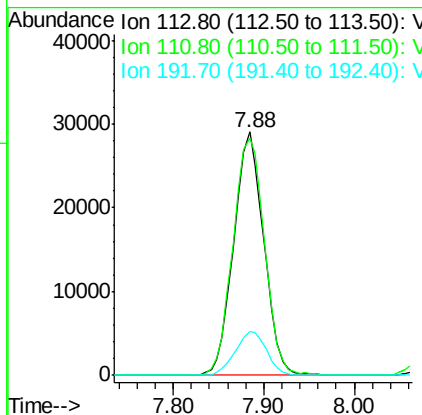
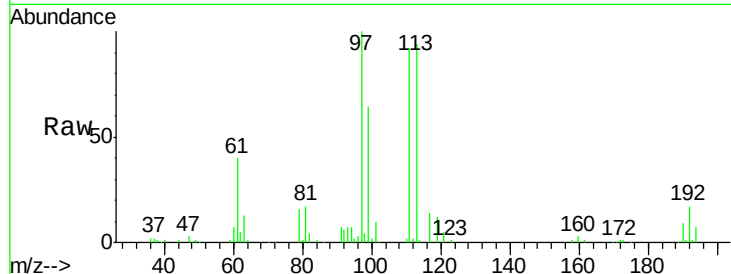
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	113	Resp:	66641
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	18.6	14.3	21.5

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 40.811 ug/l

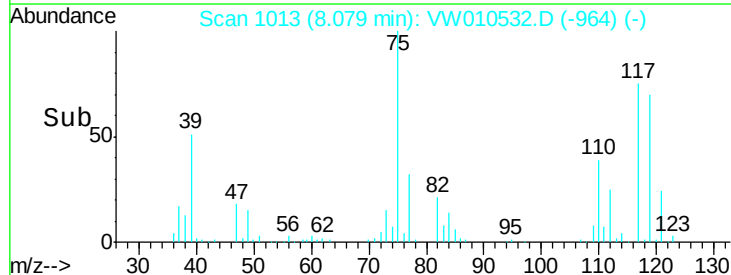
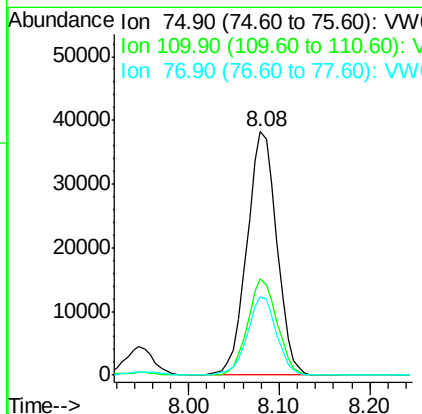
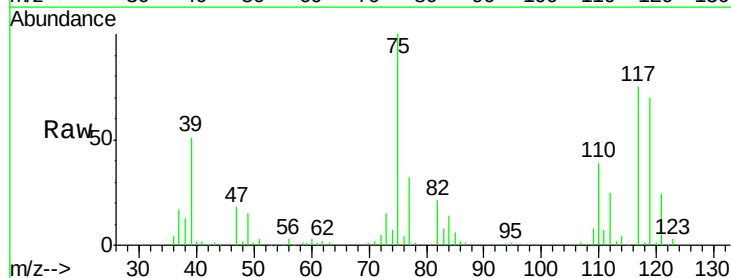
RT: 8.08 min Scan# 1013

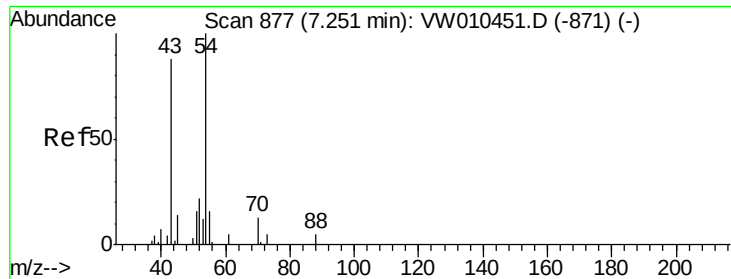
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	75	Resp:	87005
Ion	Ratio	Lower	Upper
75	100		
110	38.8	19.2	57.6
77	31.6	25.2	37.8





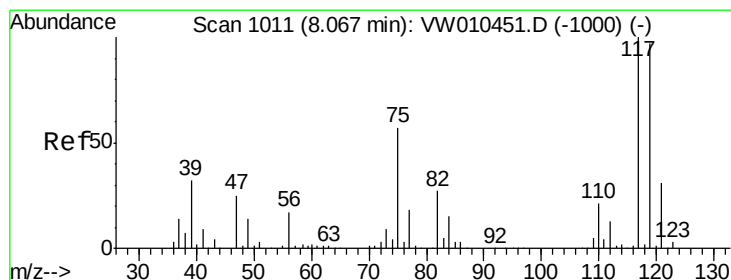
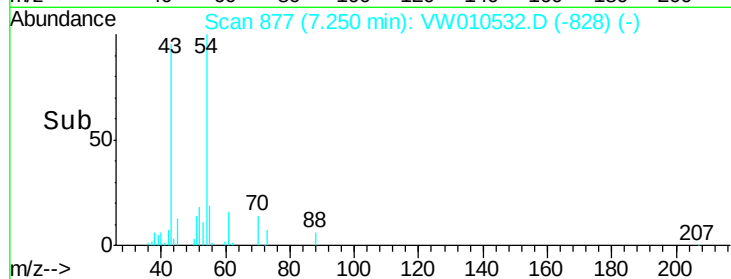
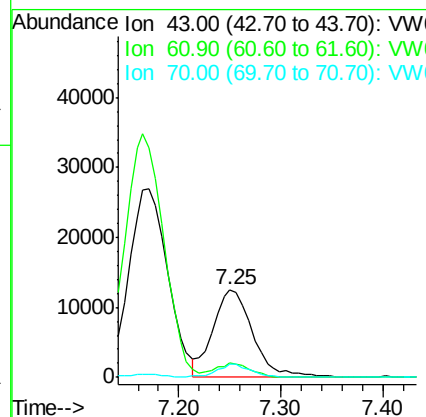
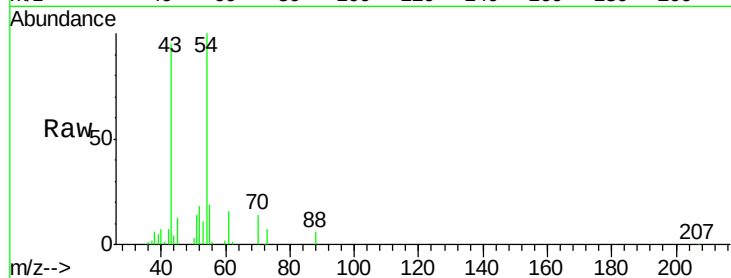
#37
Ethyl Acetate
Concen: 36.761 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.2	16.8
70	13.0	9.9	14.9

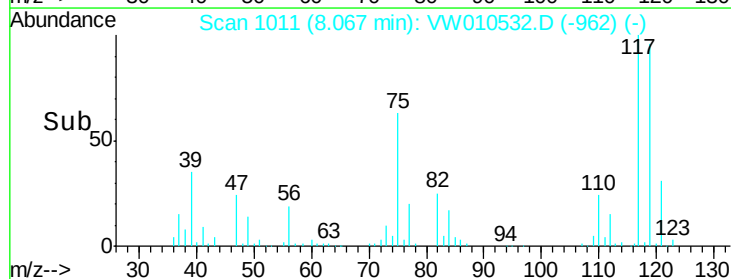
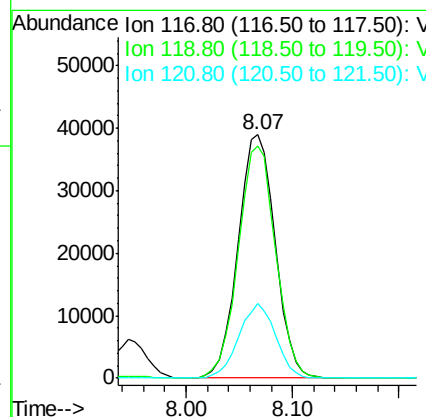
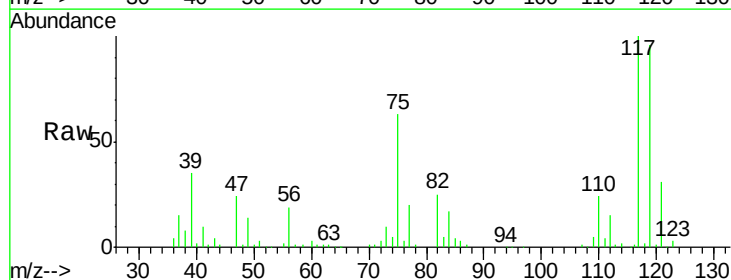
Manual Integrations
APPROVED

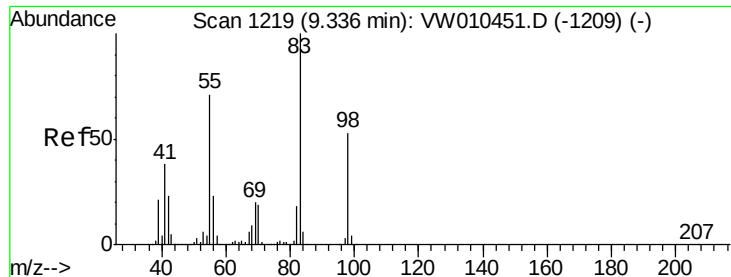
MMDadoda
5/24/2019 10:44:24 PM



#38
Carbon Tetrachloride
Concen: 41.455 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.4	116.0
121	30.8	25.0	37.6





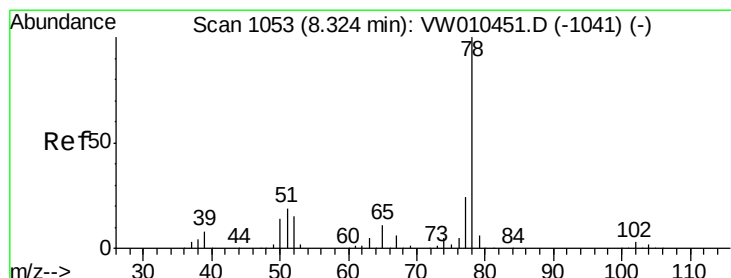
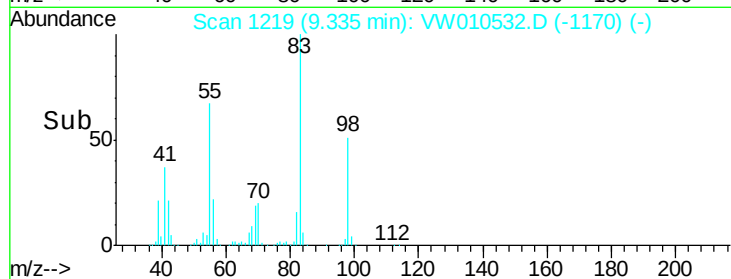
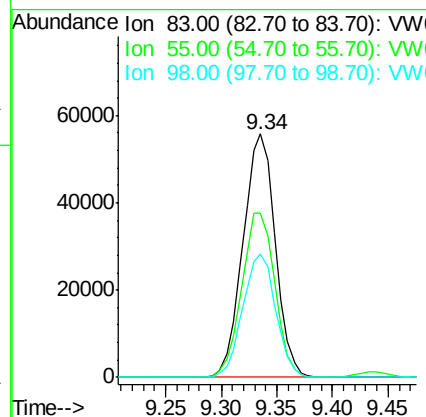
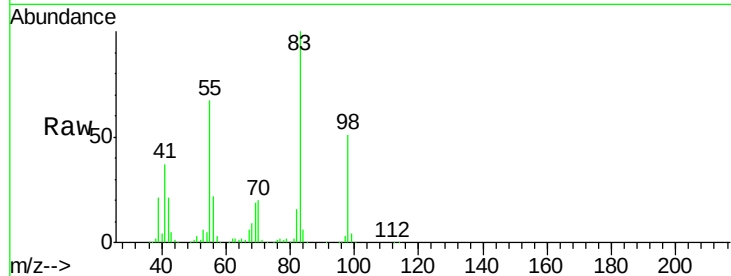
#39
Methylvlcyclohexane
Concen: 39.302 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	67.4	57.0	85.6	
98	50.7	42.0	63.0	

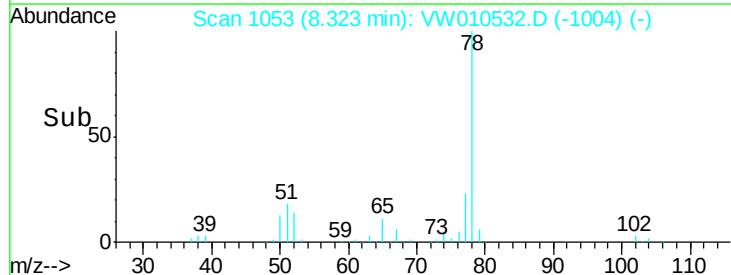
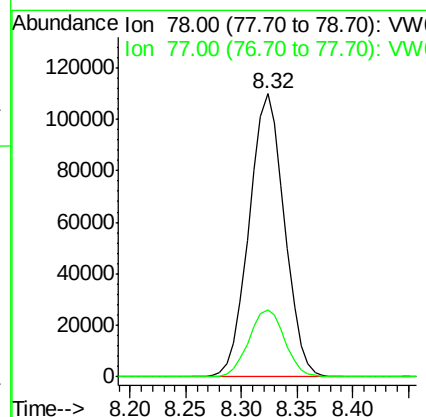
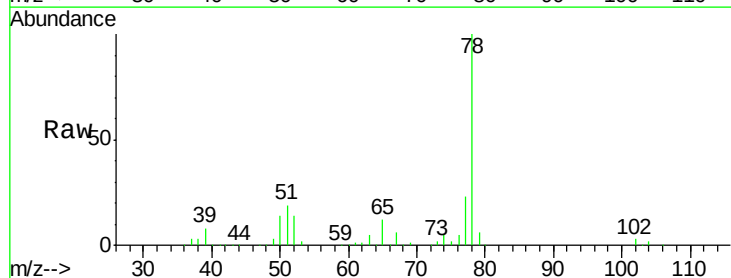
Manual Integrations
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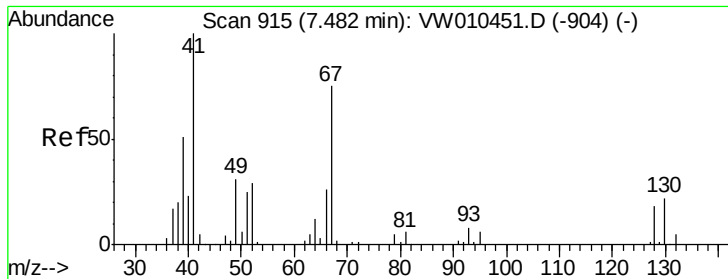
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#40
Benzene
Concen: 40.953 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.5	18.9	28.3	





#41

Methacrylonitrile

Concen: 34.593 ug/l

RT: 7.48 min Scan# 915

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

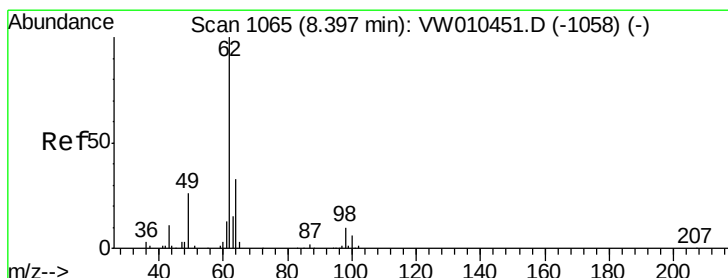
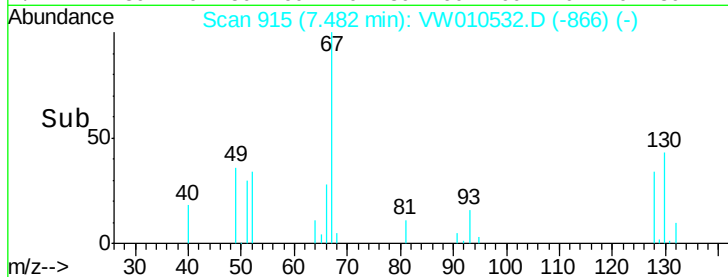
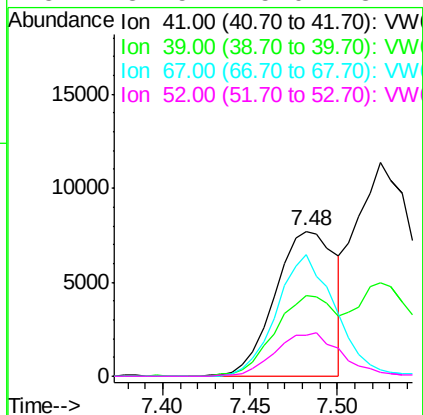
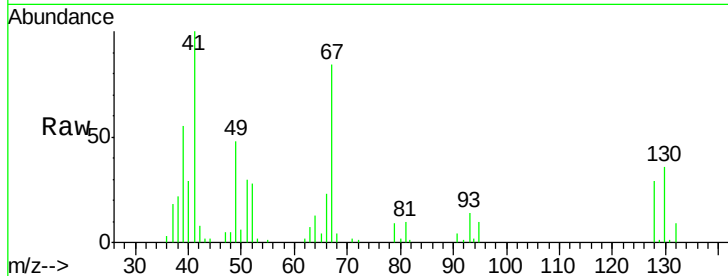
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	41	Resp:	18634
Ion	Ratio	Lower	Upper
41	100		
39	54.7	47.4	71.2
67	81.5	65.5	98.3
52	32.5	25.0	37.4

Manual Integrations
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5/24/2019 10:44:24 PM



#42

1,2-Dichloroethane

Concen: 39.233 ug/l

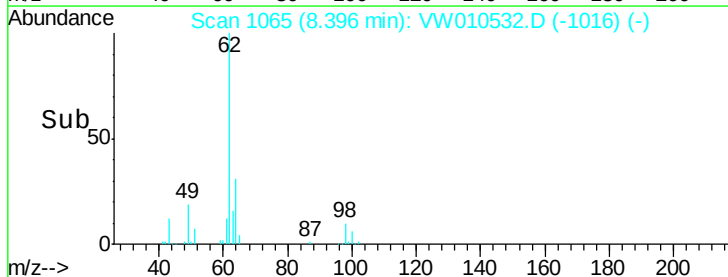
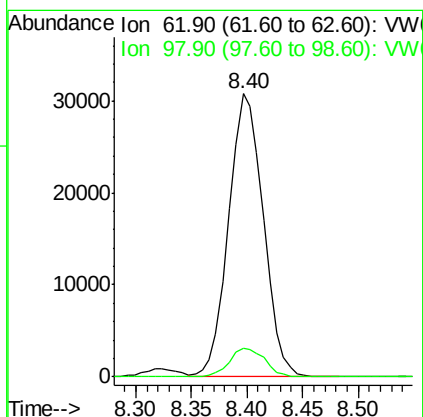
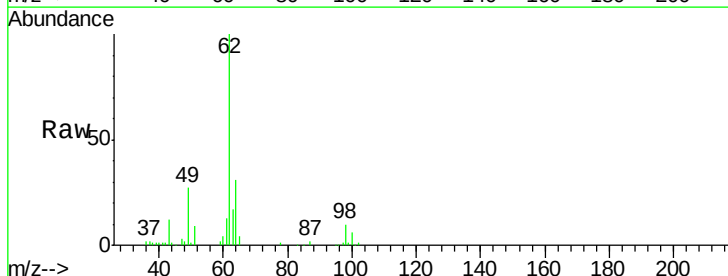
RT: 8.40 min Scan# 1065

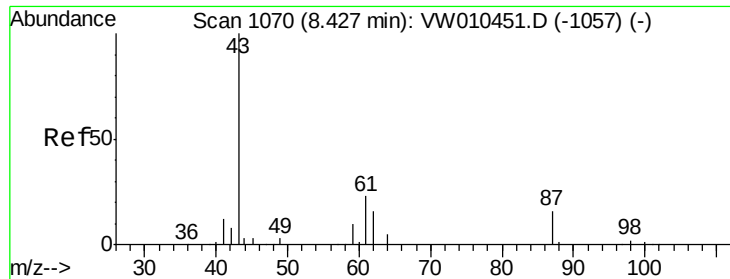
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	62	Resp:	66443
Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	21.0





#43

Isopropyl Acetate

Concen: 36.761 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

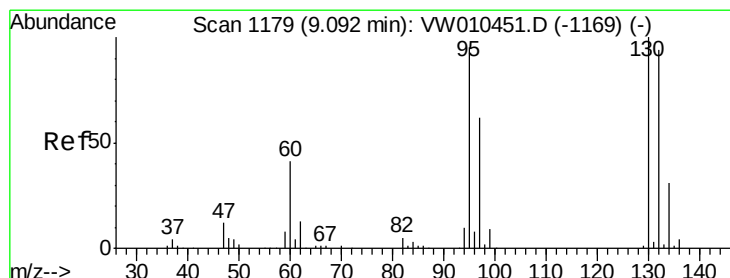
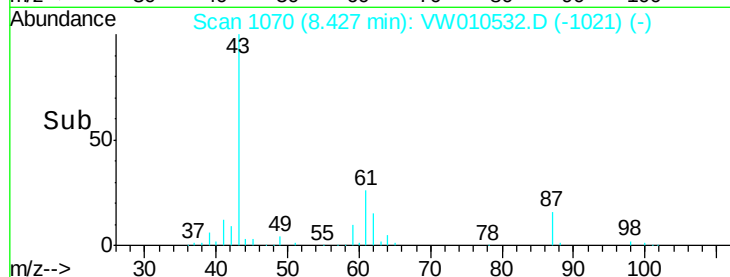
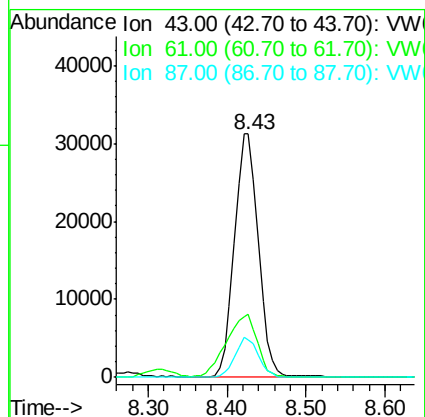
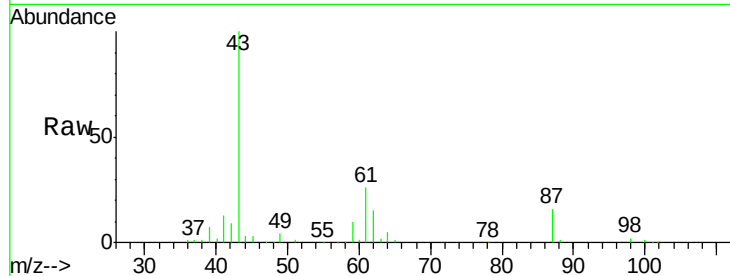
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	43	Resp:	66580
Ion	Ratio	Lower	Upper
43	100		
61	33.1	25.4	38.2
87	16.0	12.7	19.1

Manual Integrations
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5/24/2019 10:44:24 PM



#44

Trichloroethene

Concen: 41.426 ug/l

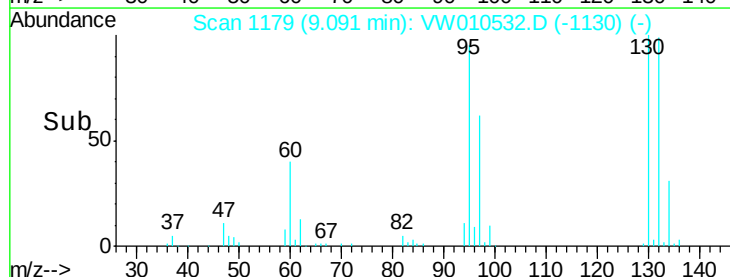
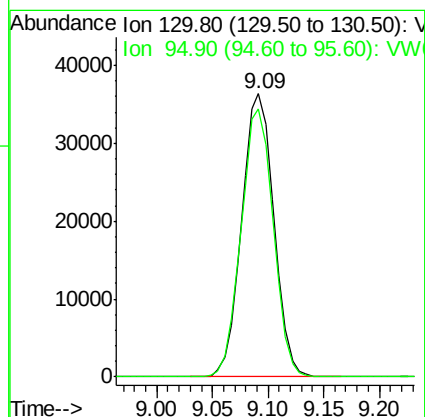
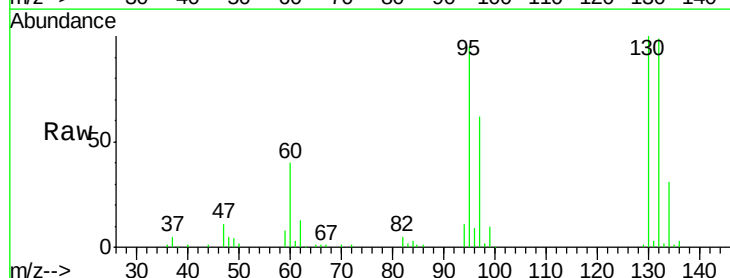
RT: 9.09 min Scan# 1179

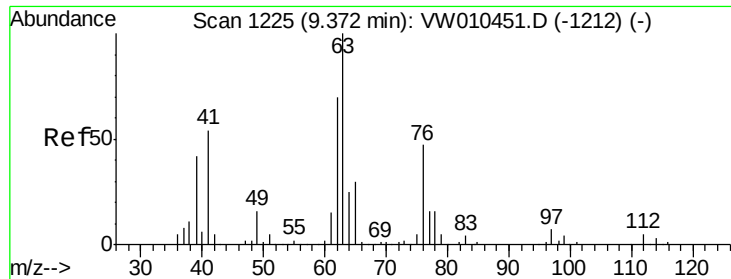
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	130	Resp:	72874
Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	189.6





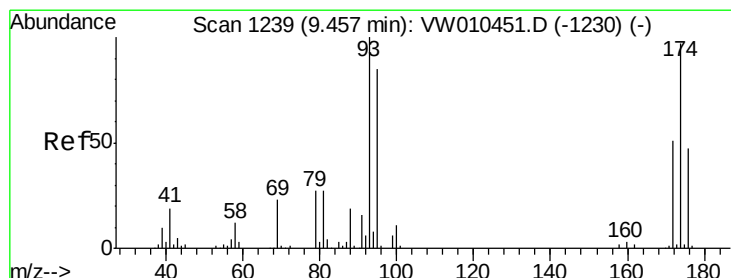
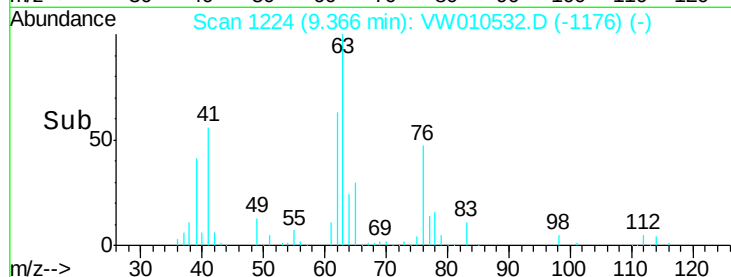
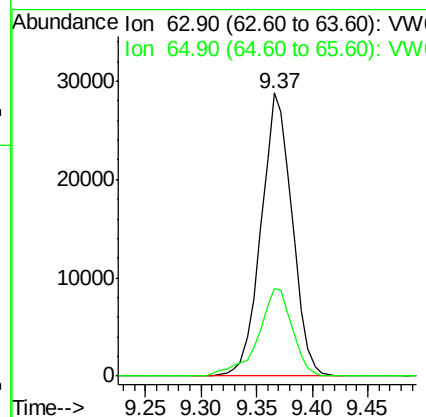
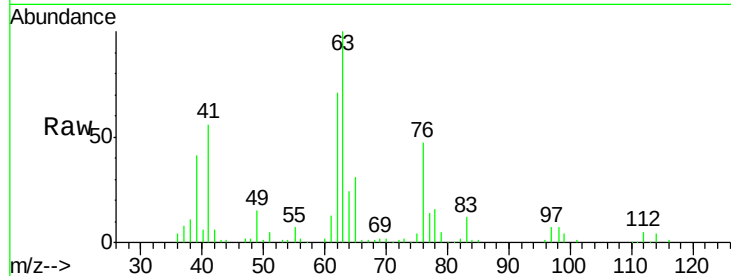
#45
 1,2-Dichloropropane
 Concen: 39.712 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.3	36.5

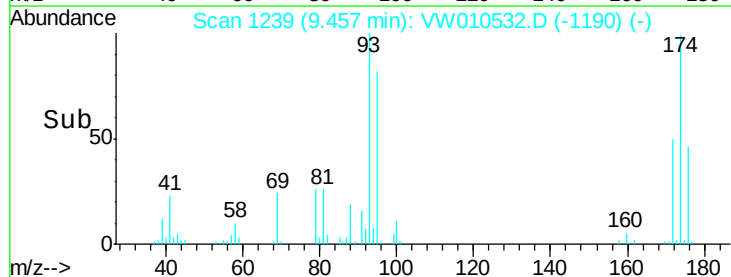
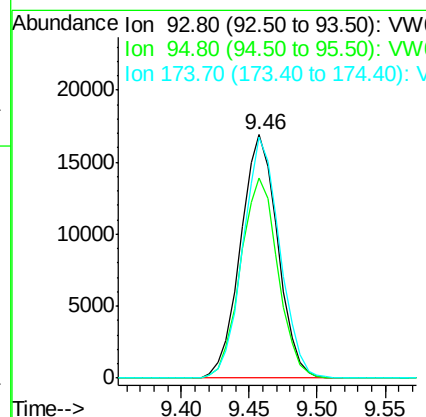
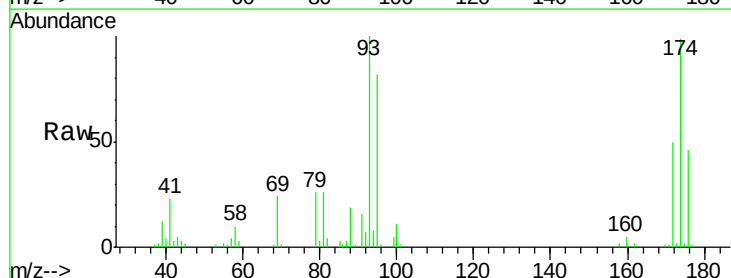
Manual Integrations
 APPROVED

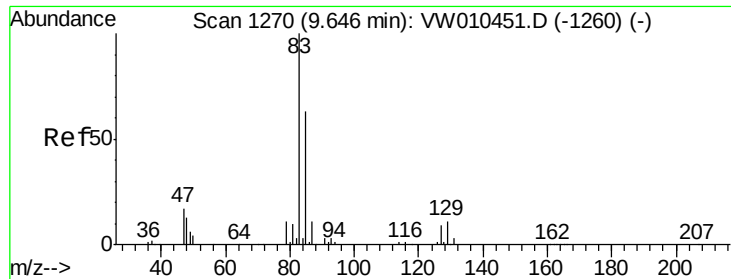
MMDadoda
 5/24/2019 10:44:24 PM



#46
 Dibromomethane
 Concen: 39.262 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.1	99.1
174	97.9	77.1	115.7





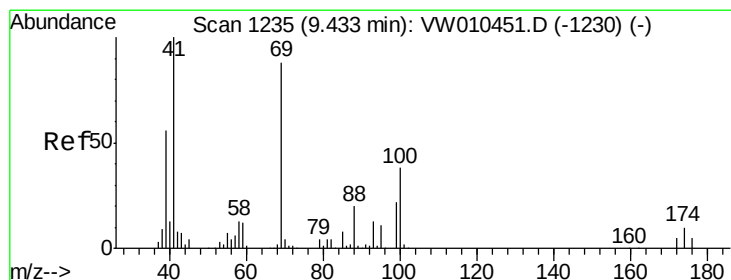
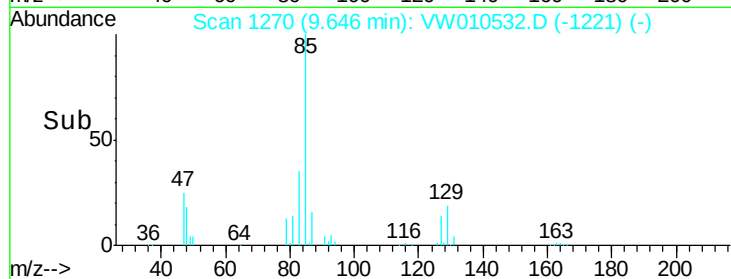
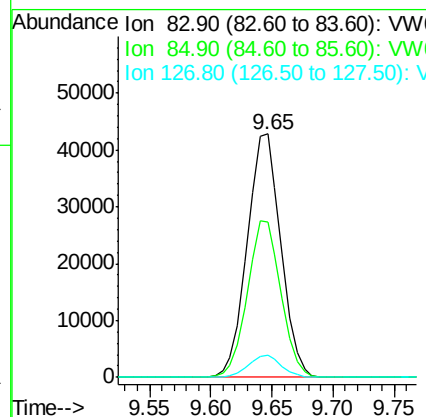
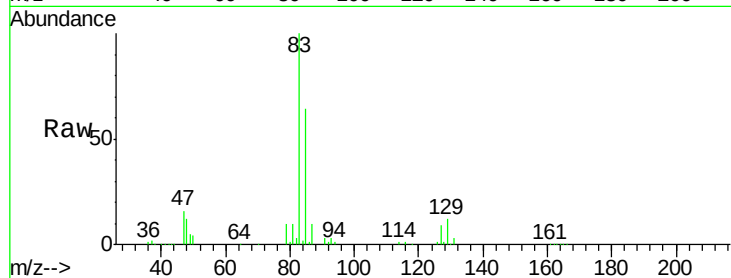
#47
Bromodichloromethane
Concen: 39.587 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	83	Resp	81873
Ion Ratio	100	Lower	Upper
85	63.7	50.4	75.6
127	9.0	7.4	11.0

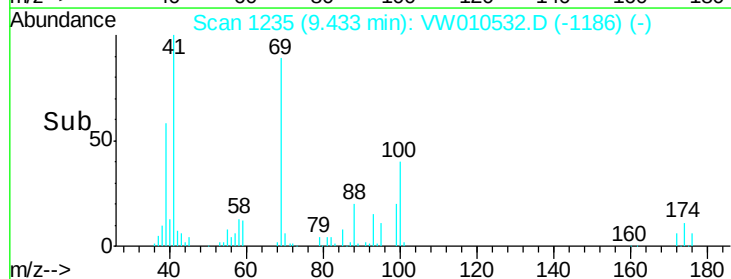
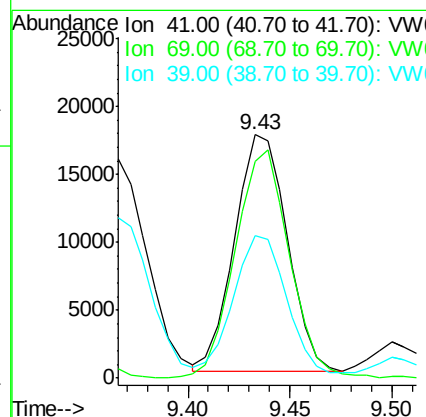
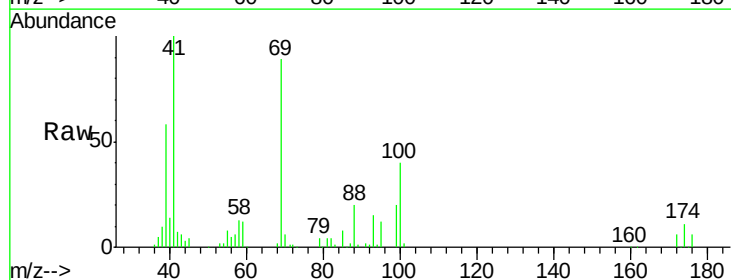
Manual Integrations
APPROVED

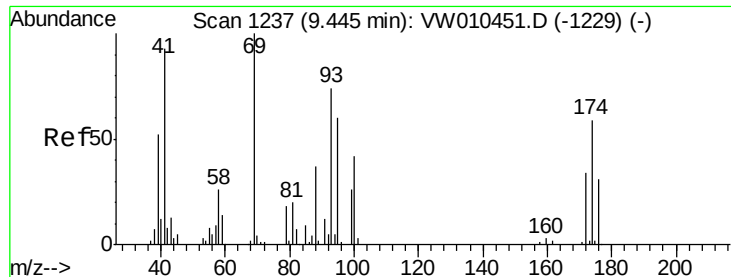
MMDadoda
5/24/2019 10:44:24 PM



#48
Methyl methacrylate
Concen: 37.759 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	41	Resp	31286
Ion Ratio	100	Lower	Upper
69	99.4	77.6	116.4
39	57.5	49.8	74.8





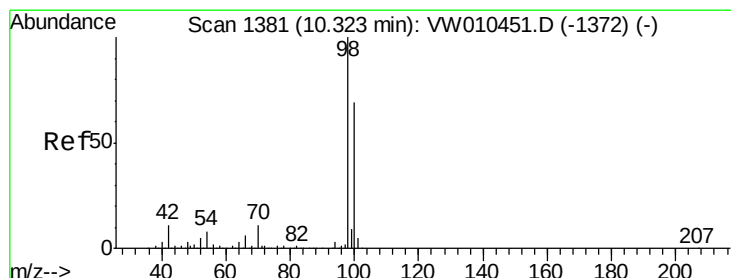
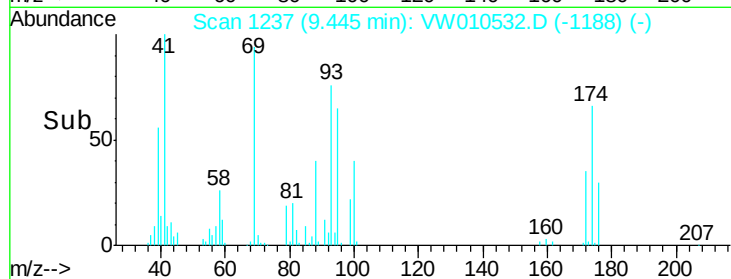
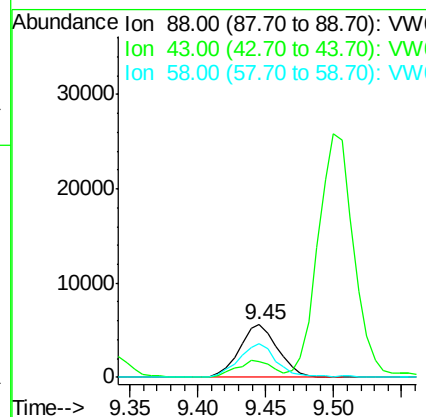
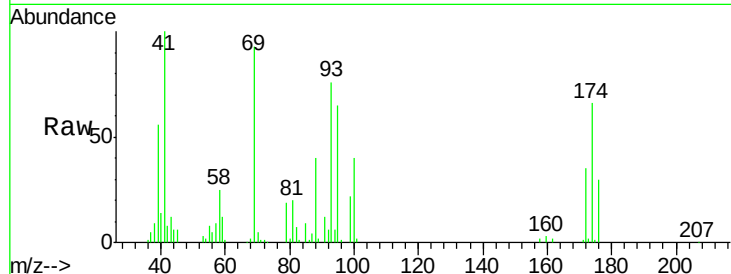
#49
1,4-Dioxane
Concen: 810.825 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	29.1	25.9	38.9	
58	64.8	52.7	79.1	

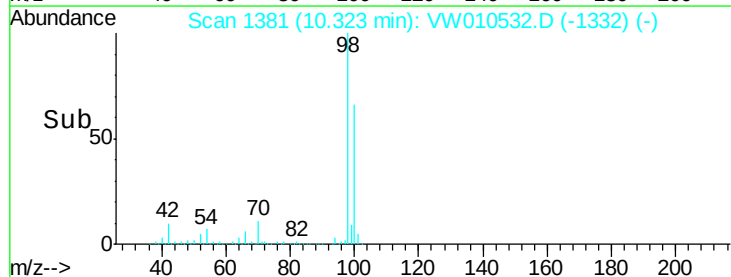
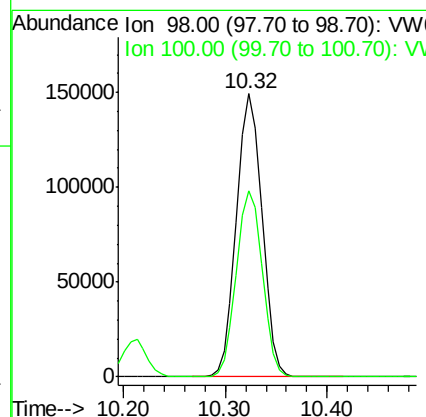
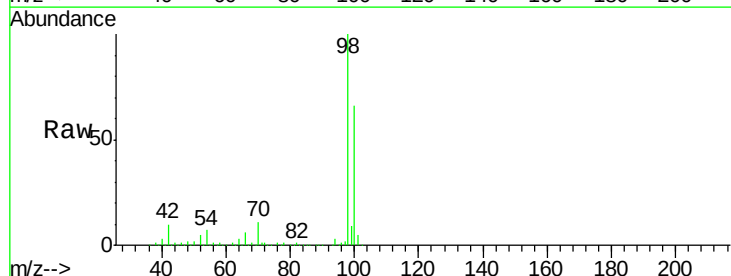
Manual Integrations
APPROVED

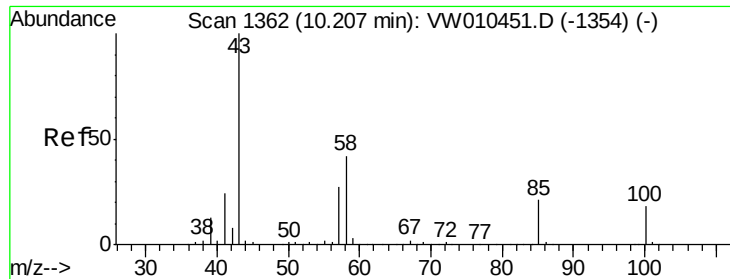
MMDadoda
5/24/2019 10:44:24 PM



#50
Toluene-d8
Concen: 49.035 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	66.6	53.7	80.5	





#51

4-Methyl-2-Pentanone

Concen: 187.384 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 43 Resp: 171971

Ion Ratio Lower Upper

43 100

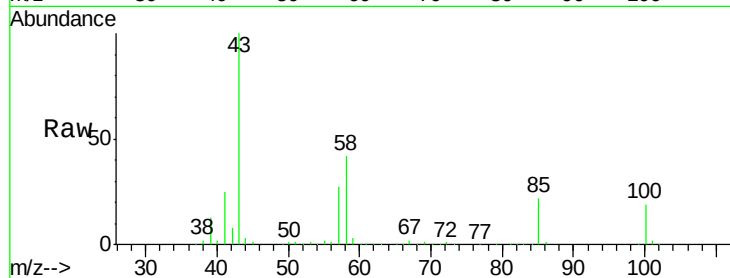
58 42.1 33.2 49.8

Manual Integrations

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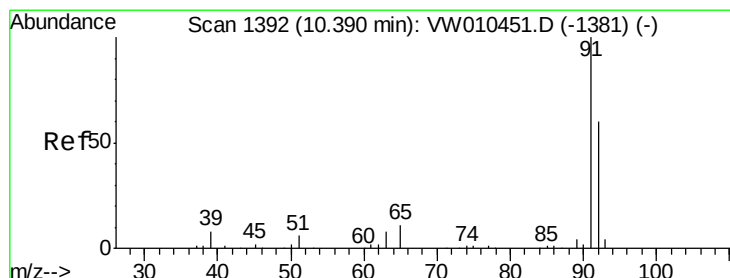
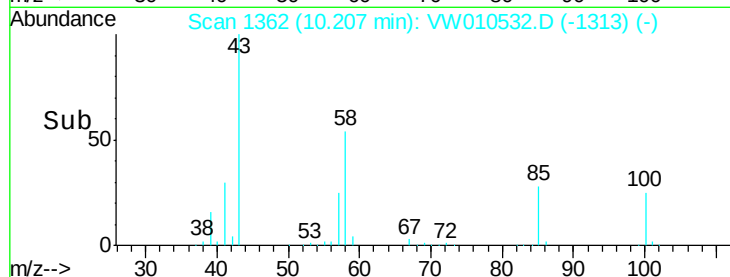
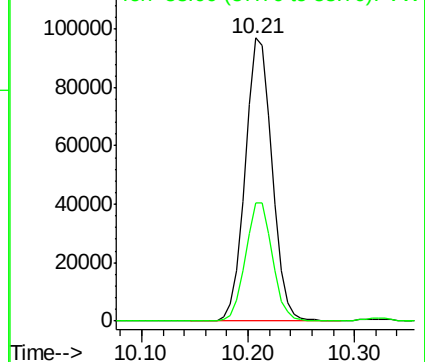
MMDadoda

5/24/2019 10:44:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 41.922 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010532.D

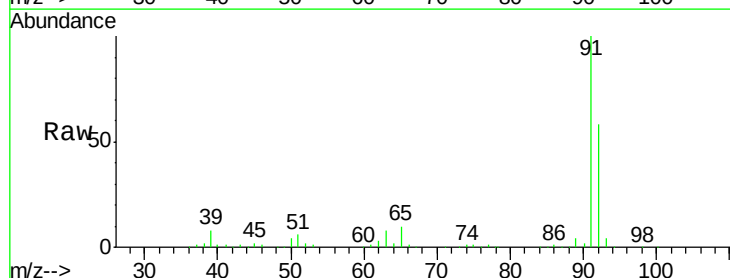
Acq: 23 May 2019 16:15

Tgt Ion: 92 Resp: 166822

Ion Ratio Lower Upper

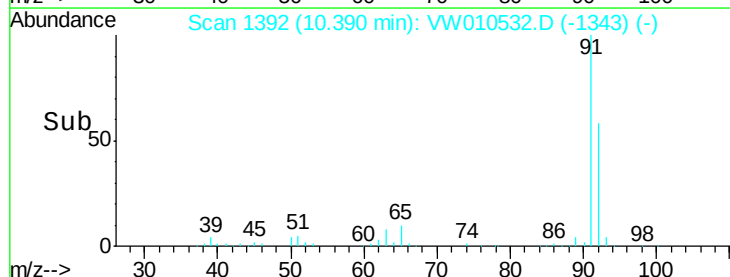
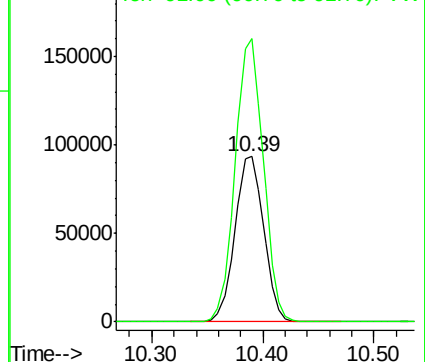
92 100

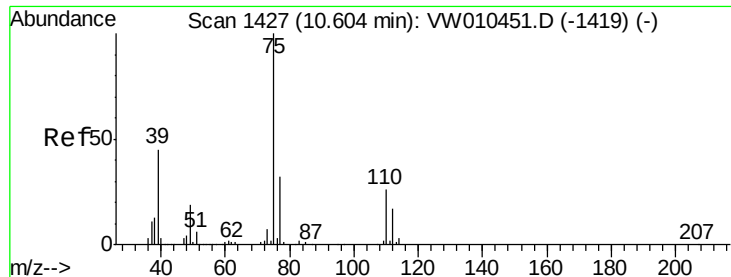
91 168.3 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





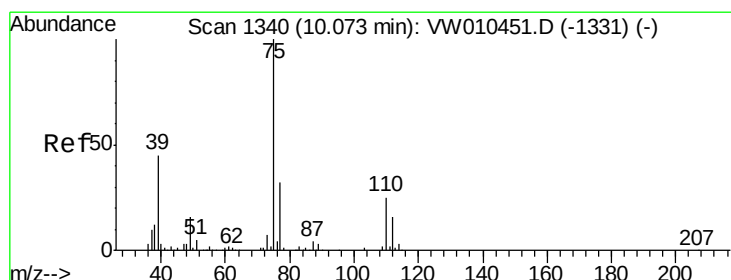
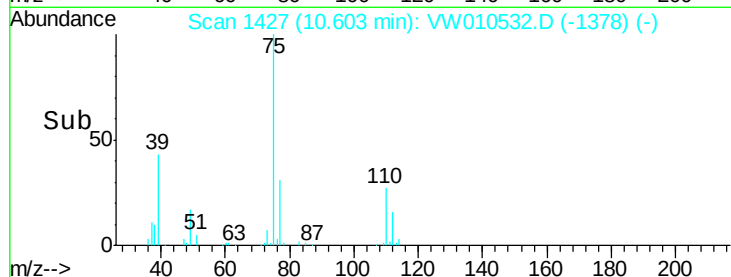
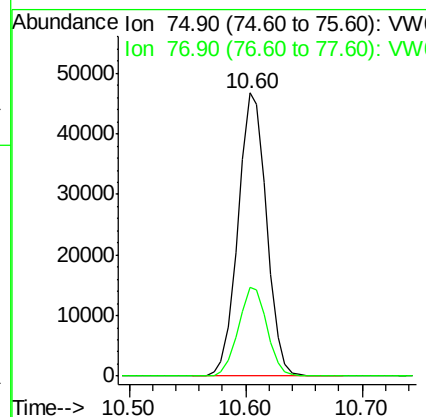
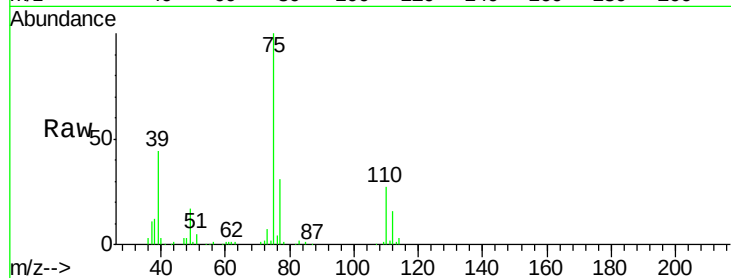
#53
 t-1,3-Dichloropropene
 Concen: 38.057 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Tot Ion: 75 Resp: 79715
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.4 38.0

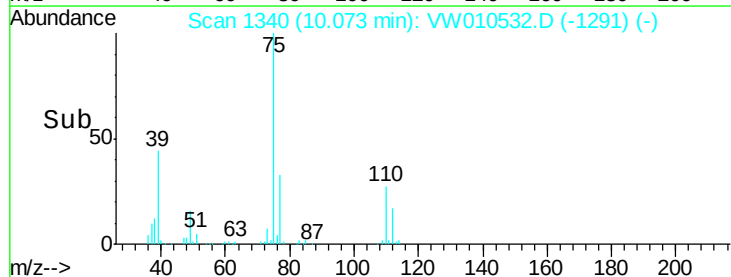
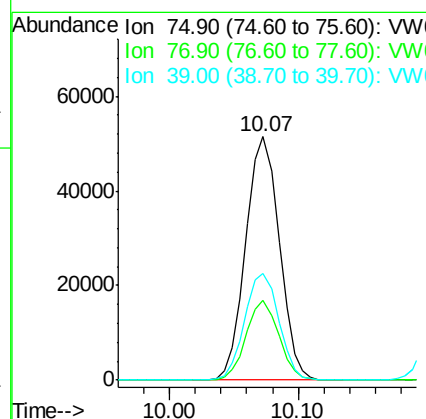
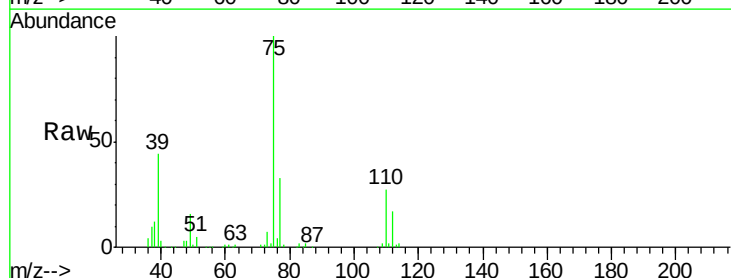
Manual Integrations
 APPROVED

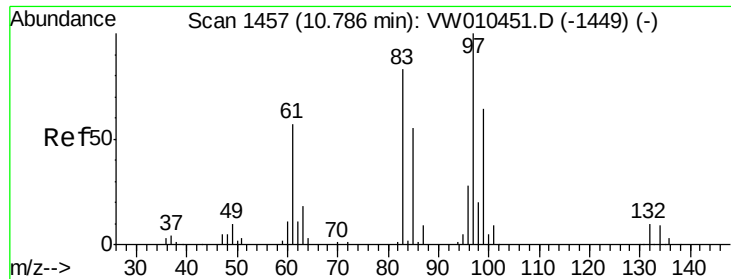
MMDadoda
 5/24/2019 10:44:24 PM



#54
 cis-1,3-Dichloropropene
 Concen: 38.978 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Tgt Ion: 75 Resp: 93243
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.7 38.5
 39 43.9 36.2 54.4





#55

1,1,2-Trichloroethane

Concen: 40.454 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

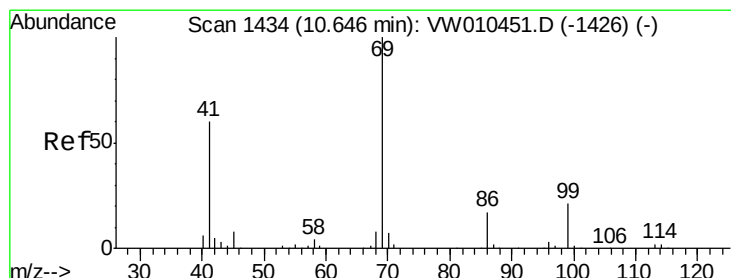
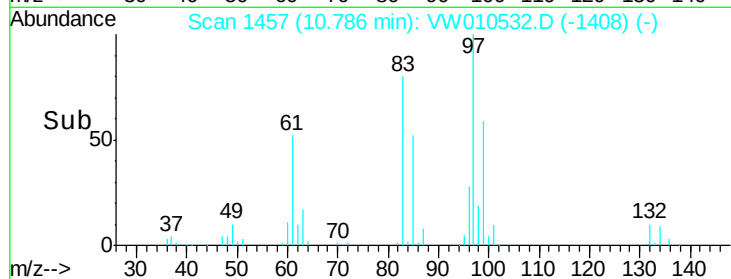
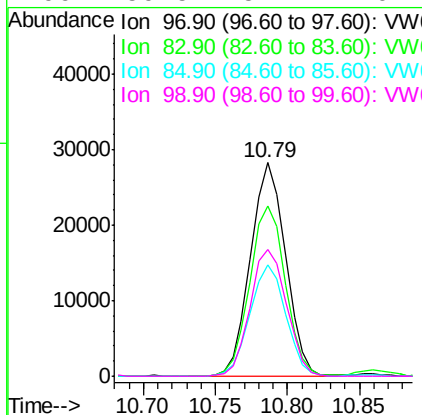
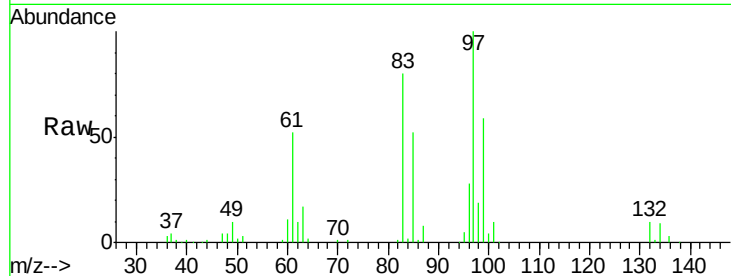
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	97	Resp:	47877
Ion	Ratio	Lower	Upper
97	100		
83	79.8	66.1	99.1
85	52.3	44.2	66.4
99	59.5	51.1	76.7

Manual Integrations
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5/24/2019 10:44:24 PM



#56

Ethyl methacrylate

Concen: 35.786 ug/l

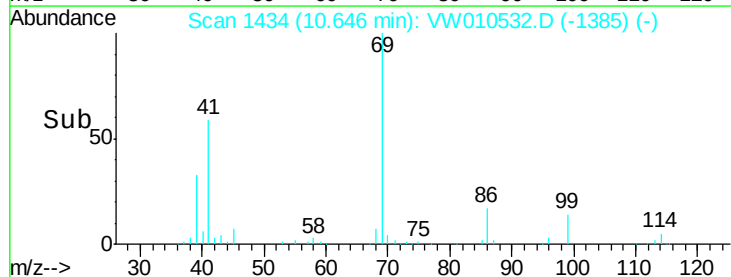
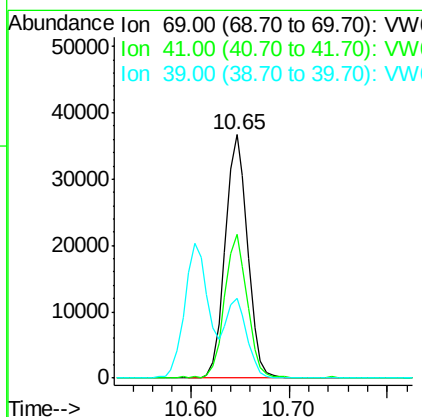
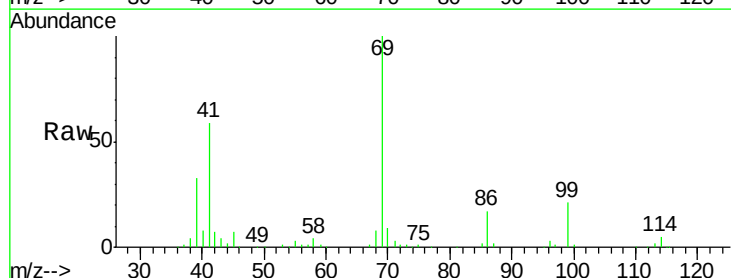
RT: 10.65 min Scan# 1434

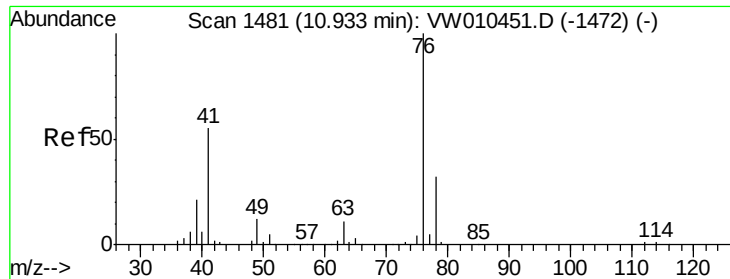
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	69	Resp:	58412
Ion	Ratio	Lower	Upper
69	100		
41	60.2	47.7	71.5
39	30.5	25.3	37.9





#57

1,3-Dichloropropane

Concen: 39.900 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 76 Resp: 79098

Ion Ratio Lower Upper

76 100

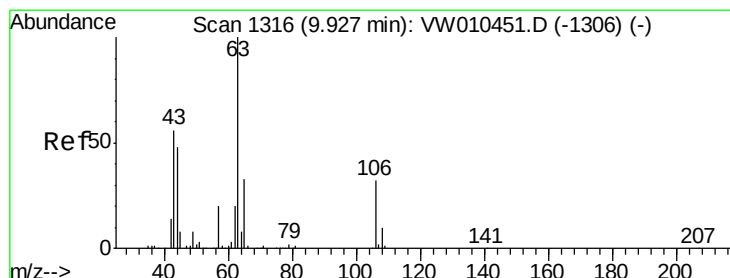
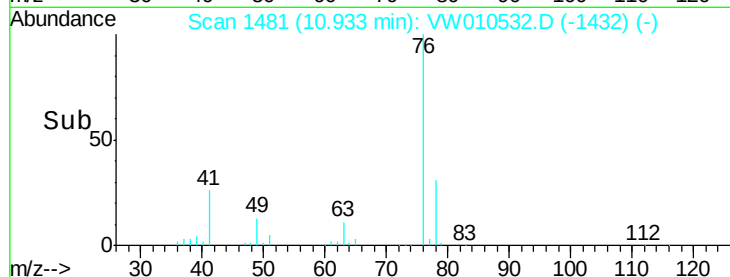
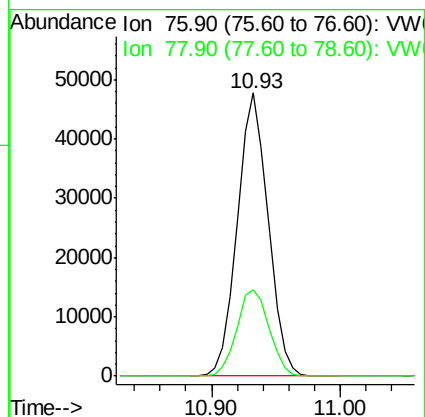
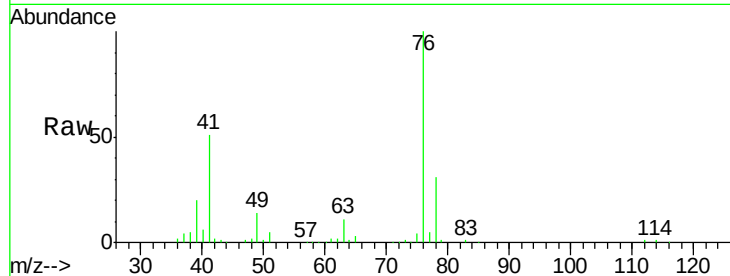
78 32.2 26.2 39.2

Manual Integrations

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MMDadoda

5/24/2019 10:44:24 PM



#58

2-Chloroethyl Vinyl ether

Concen: 204.736 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VW010532.D

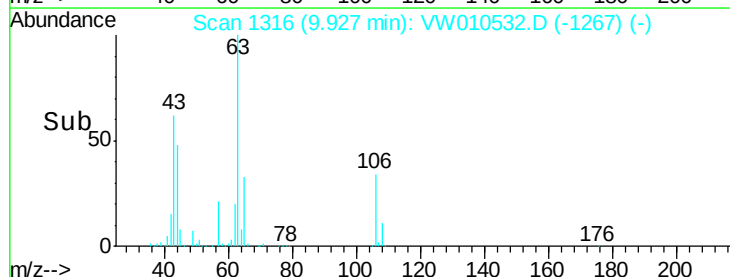
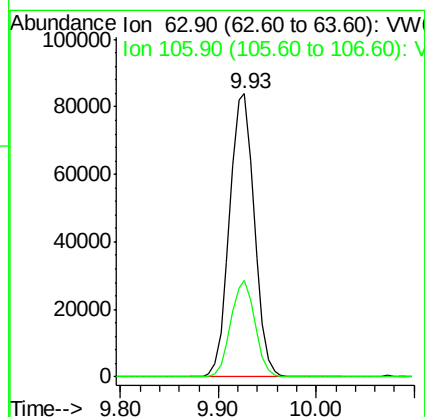
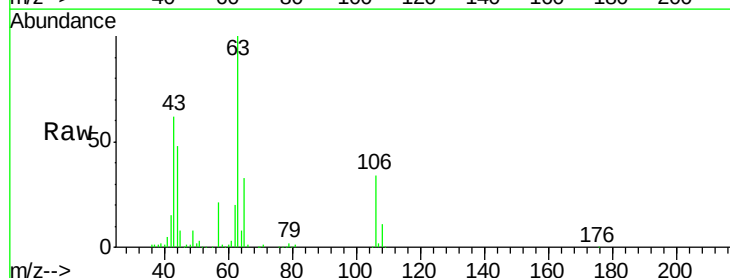
Acq: 23 May 2019 16:15

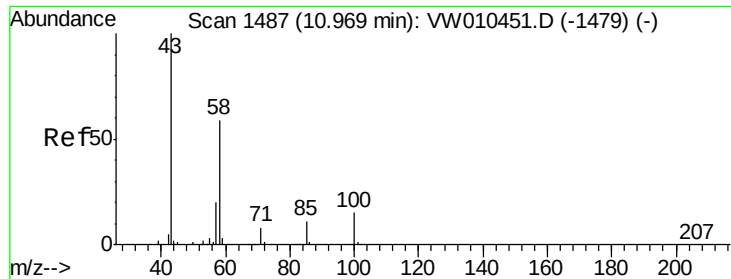
Tgt Ion: 63 Resp: 148017

Ion Ratio Lower Upper

63 100

106 33.0 25.8 38.6





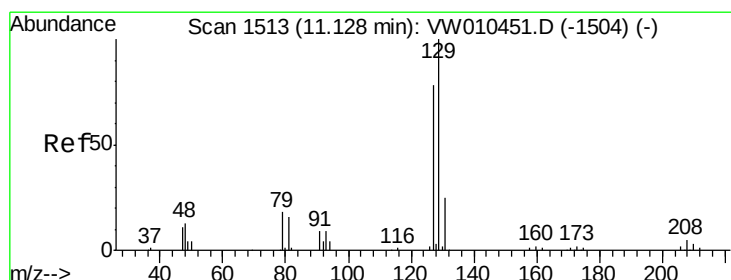
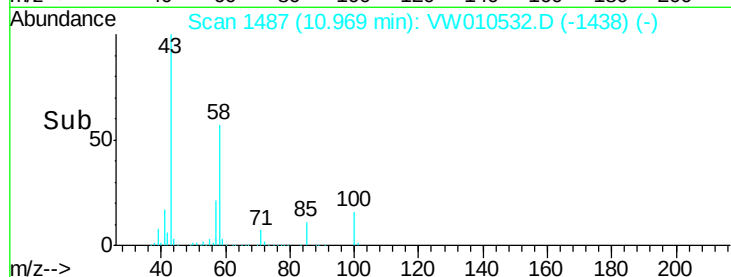
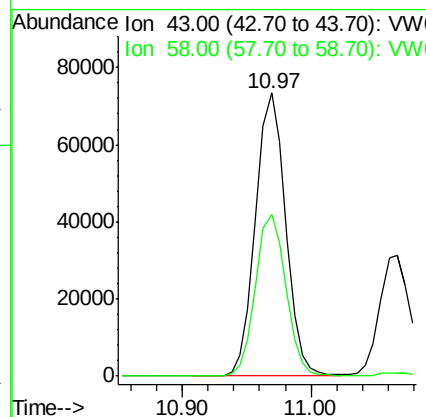
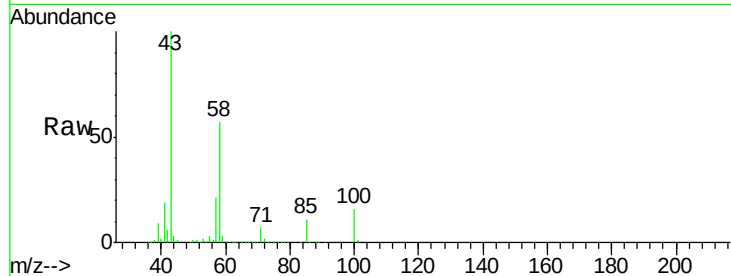
#59
2-Hexanone
Concen: 181.776 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	43	Resp	119004
Ion Ratio	100	Lower	Upper
43	100		
58	57.7	28.9	86.8

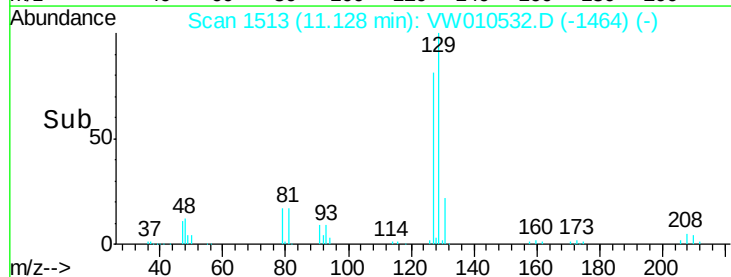
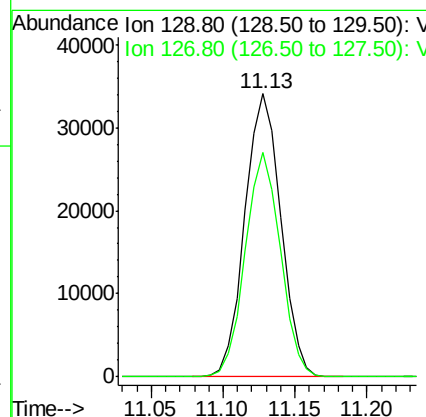
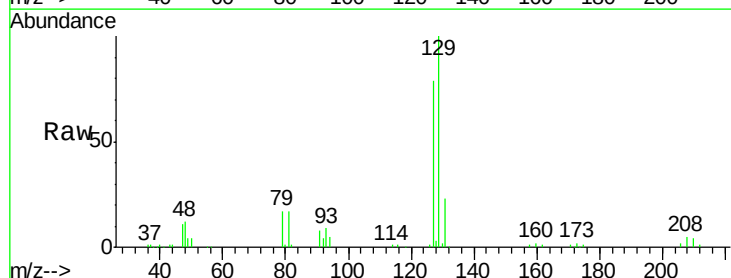
Manual Integrations
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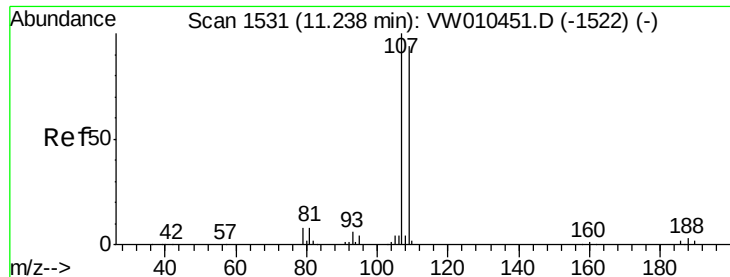
MMDadoda
5/24/2019 10:44:24 PM



#60
Dibromochloromethane
Concen: 39.328 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	129	Resp	58907
Ion Ratio	100	Lower	Upper
129	100		
127	77.4	38.9	116.7





#61

1,2-Dibromoethane

Concen: 39.533 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion: 107 Resp: 47395

Ion Ratio Lower Upper

107 100

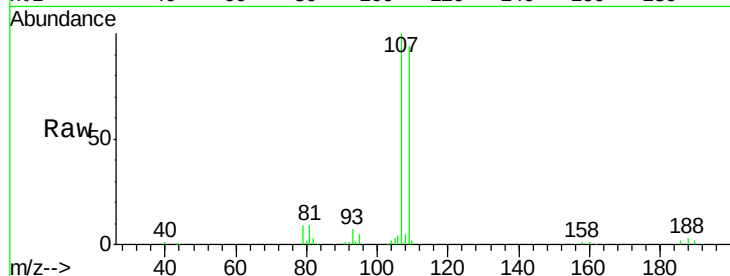
109 95.7 75.0 112.4

Manual Integrations

APPROVED

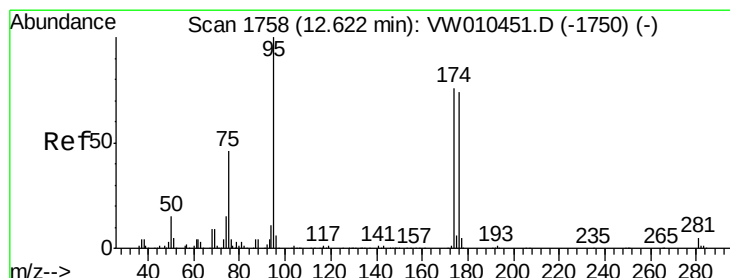
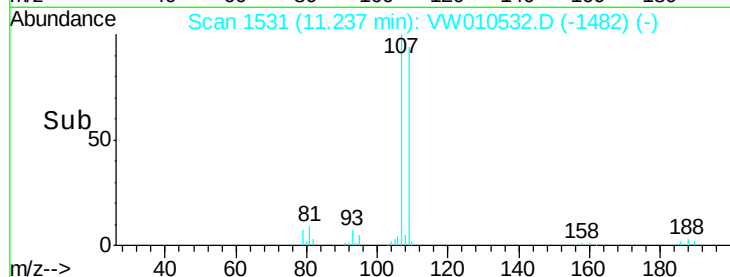
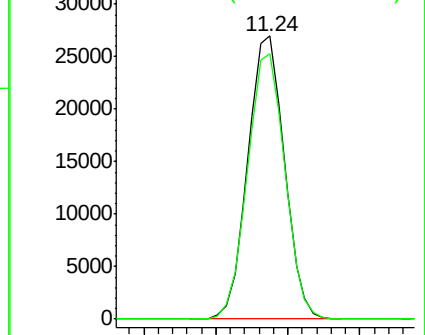
MMDadoda

5/24/2019 10:44:24 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.576 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

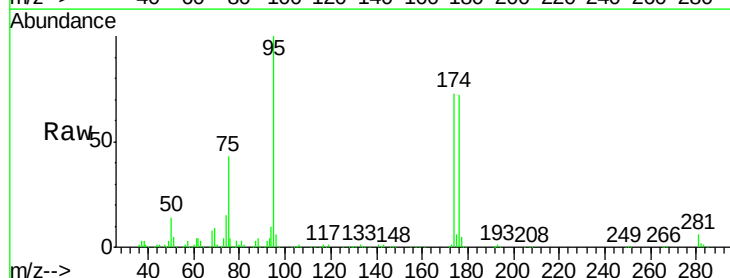
Tgt Ion: 95 Resp: 98416

Ion Ratio Lower Upper

95 100

174 74.0 0.0 148.6

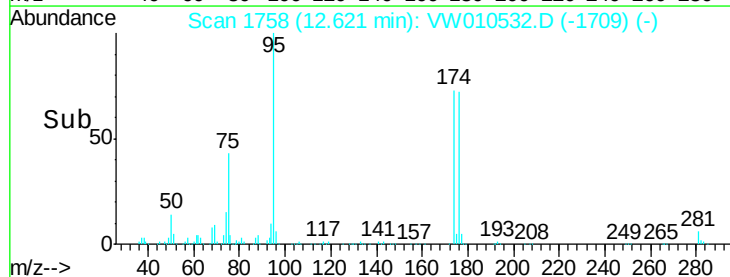
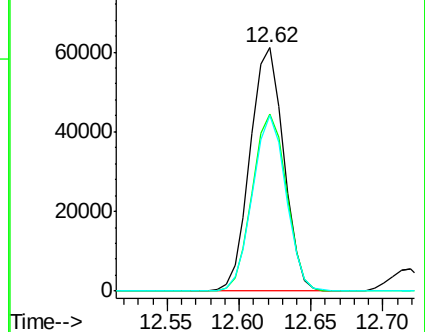
176 71.6 0.0 144.2

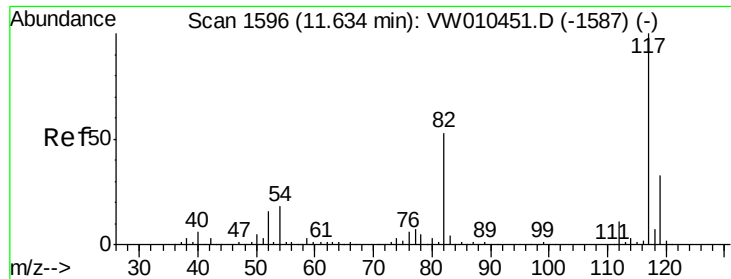


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

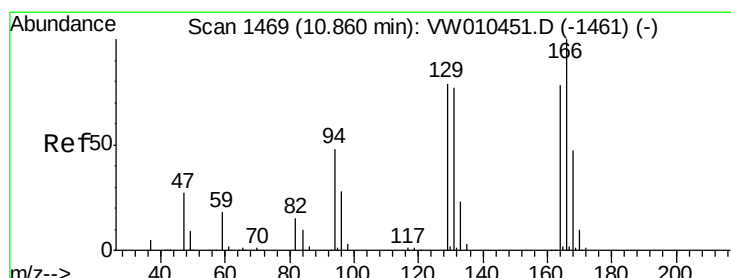
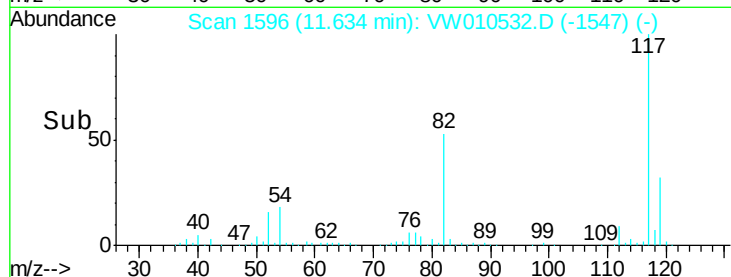
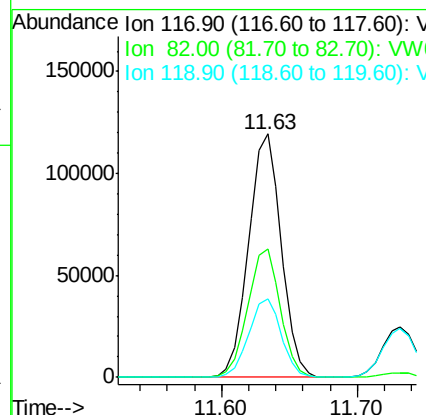
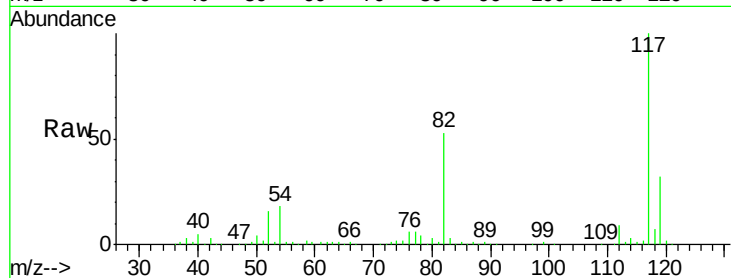
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	117	Resp:	200602
Ion Ratio	Lower	Upper	
117	100		
82	52.9	42.8	64.2
119	32.4	26.3	39.5

Manual Integrations
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#64

Tetrachloroethene

Concen: 40.380 ug/l

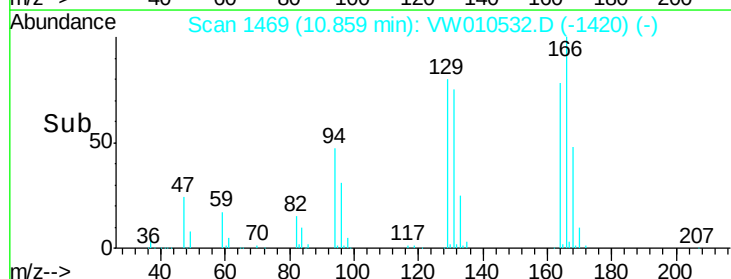
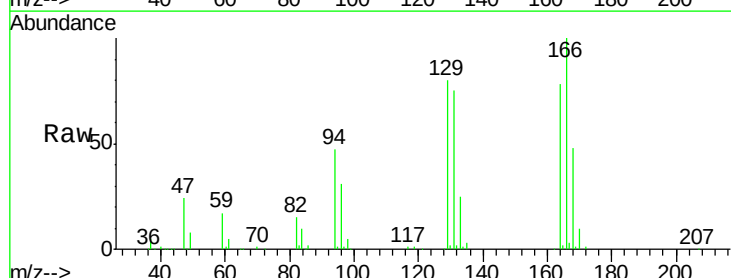
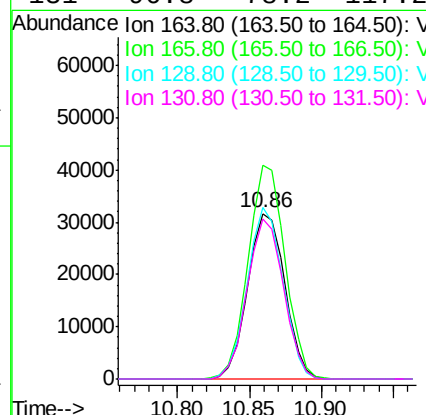
RT: 10.86 min Scan# 1469

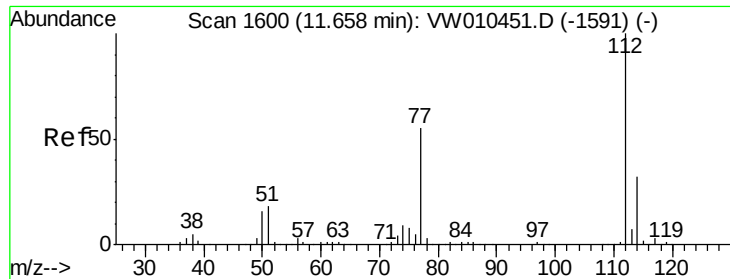
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	164	Resp:	56467
Ion Ratio	Lower	Upper	
164	100		
166	128.8	101.9	152.9
129	103.4	80.6	121.0
131	96.8	78.2	117.2





#65

Chlorobenzene

Concen: 41.118 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:112 Resp: 175793

Ion Ratio Lower Upper

112 100

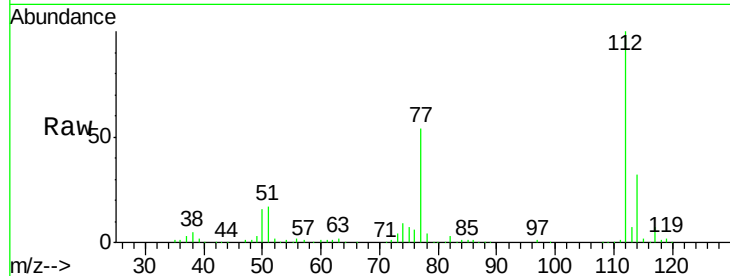
114 32.5 25.3 37.9

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.66

100000

80000

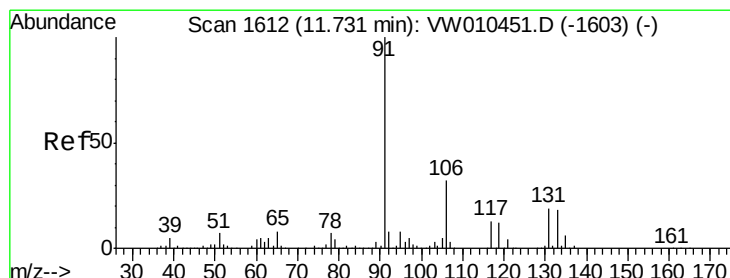
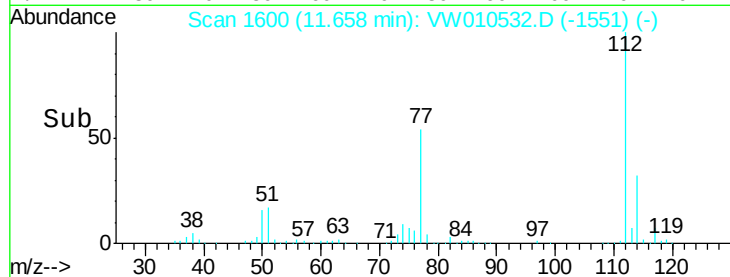
60000

40000

20000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 40.742 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

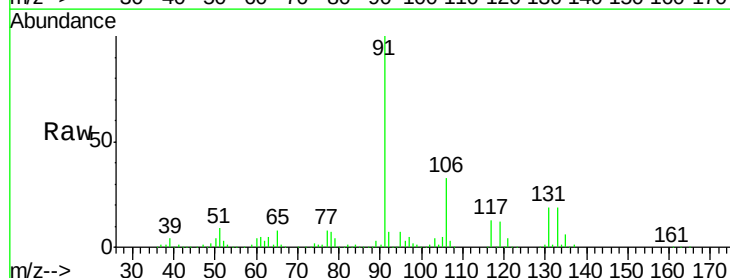
Tgt Ion:131 Resp: 62396

Ion Ratio Lower Upper

131 100

133 96.4 47.3 141.9

119 65.7 32.1 96.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.73

50000

40000

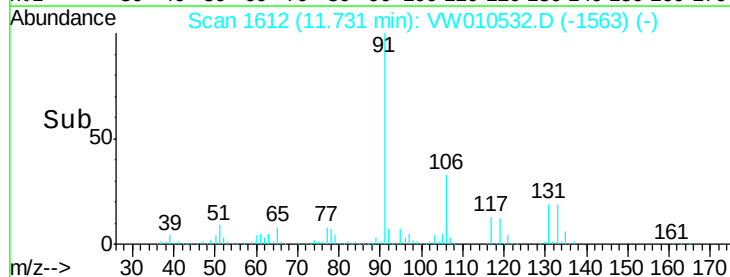
30000

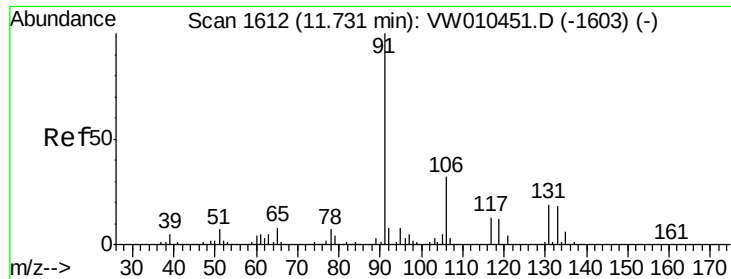
20000

10000

0

Time-->





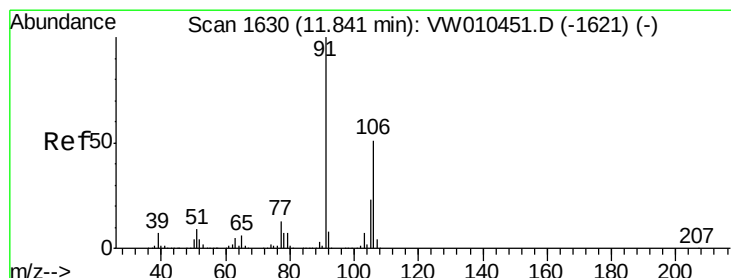
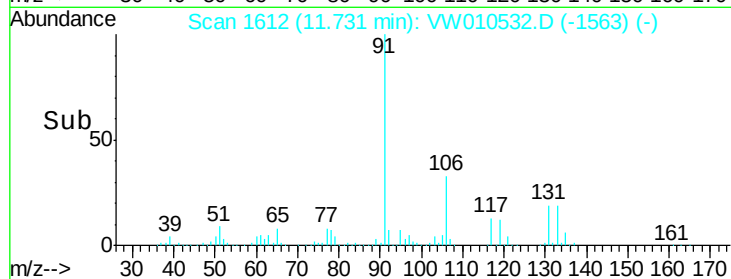
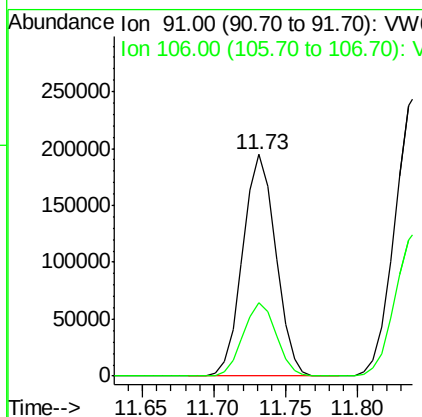
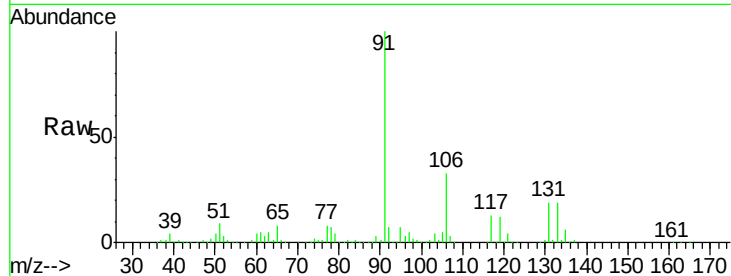
#67
Ethyl Benzene
Concen: 41.216 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
91	100		
106	33.1	25.9	38.9

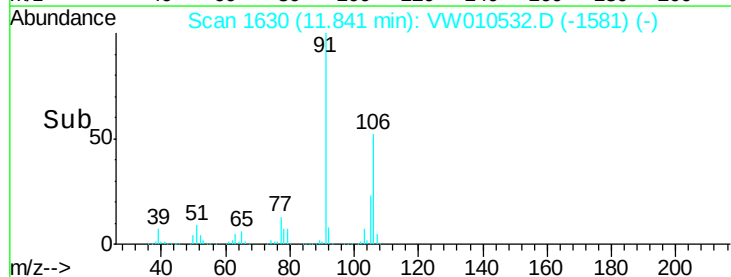
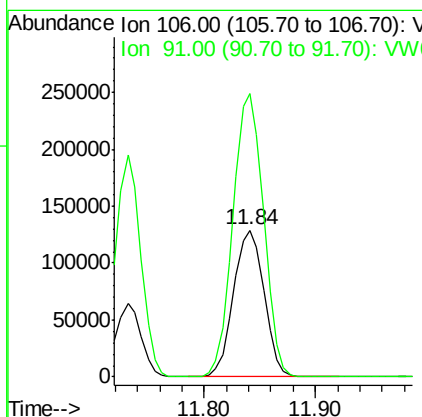
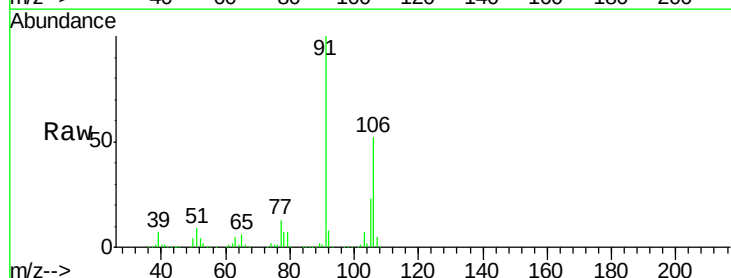
Manual Integrations
APPROVED

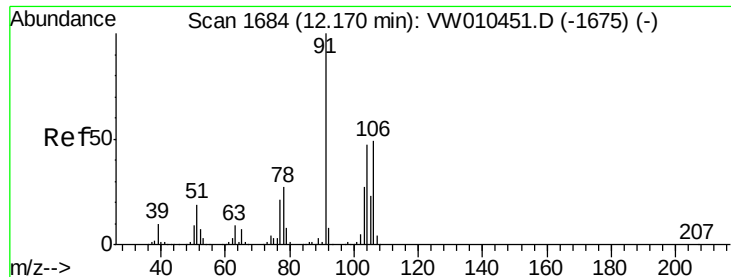
MMDadoda
5/24/2019 10:44:24 PM



#68
m/p-Xylenes
Concen: 82.799 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
106	100		
91	193.2	156.0	234.0





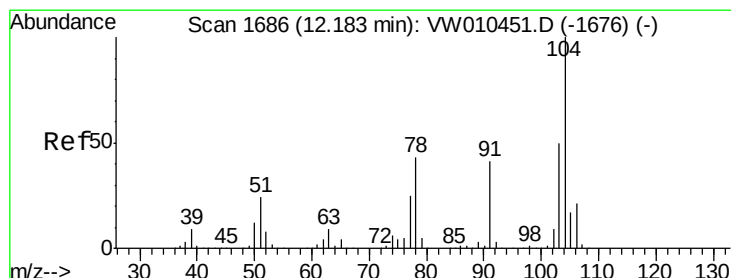
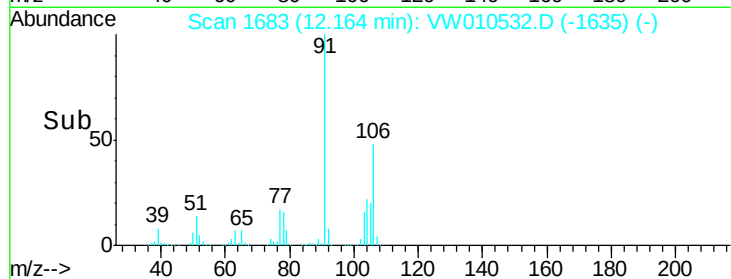
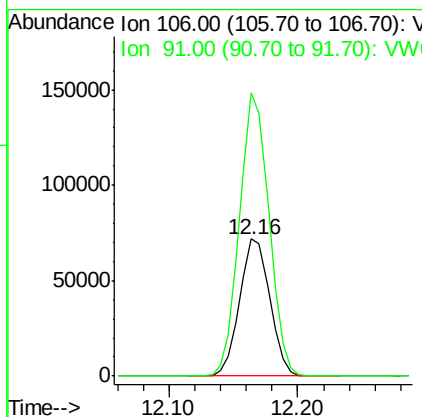
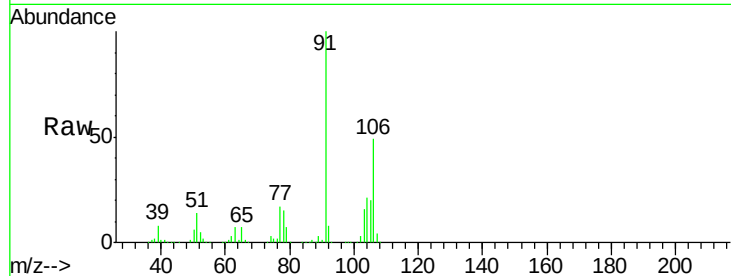
#69
o-Xylene
Concen: 41.549 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion:106 Resp: 116546
Ion Ratio Lower Upper
106 100
91 202.3 103.2 309.4

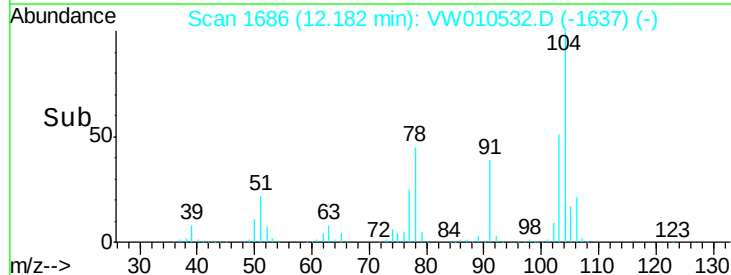
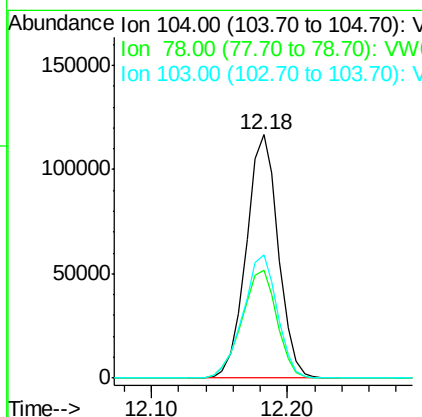
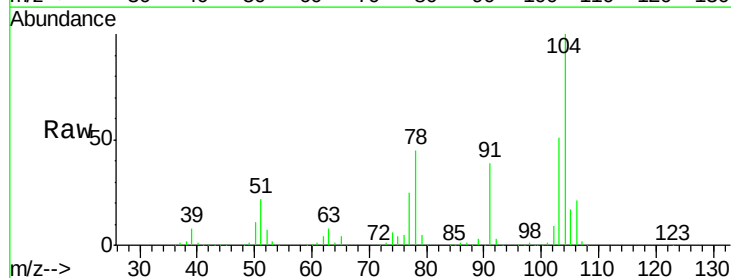
Manual Integrations
APPROVED

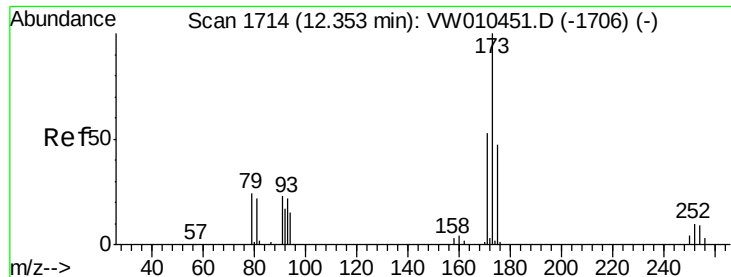
MMDadoda
5/24/2019 10:44:24 PM



#70
Styrene
Concen: 40.352 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion:104 Resp: 192051
Ion Ratio Lower Upper
104 100
78 48.9 39.0 58.4
103 54.1 43.0 64.6





#71

Bromoform

Concen: 38.234 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

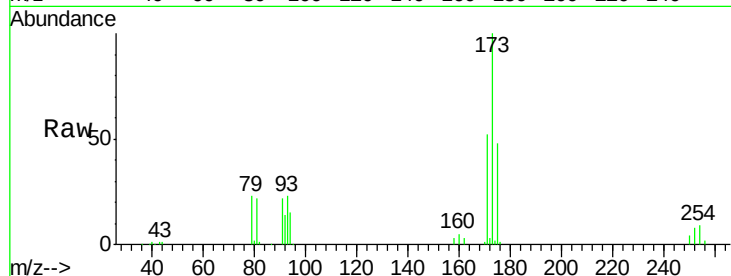
ClientSampleId :

FESB-23(3-3.5)MSD

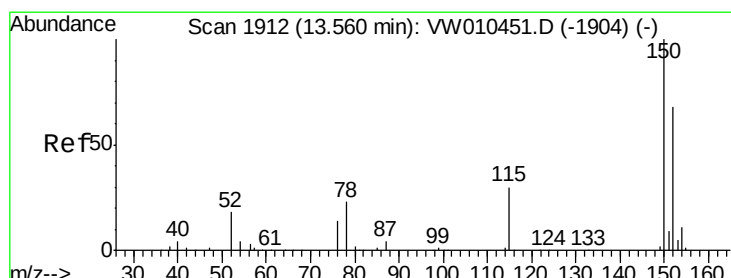
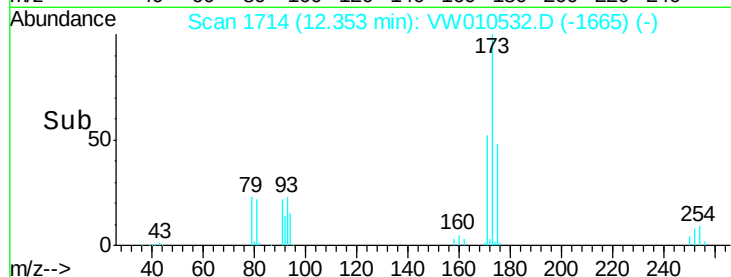
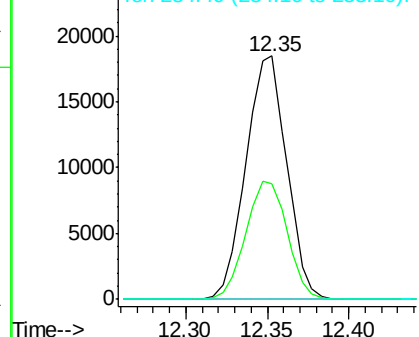
Tot Ion:	173	Resp:	32246
Ion Ratio	Lower	Upper	
173	100		
175	49.3	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations
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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

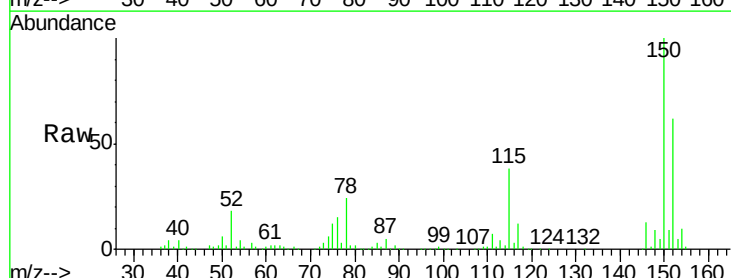
RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

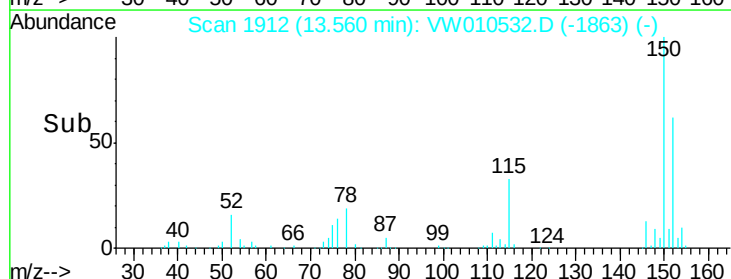
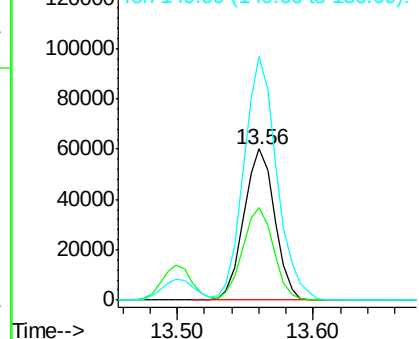
Lab File: VW010532.D

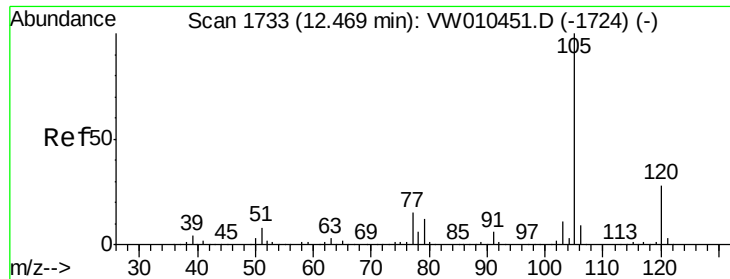
Acq: 23 May 2019 16:15

Tgt Ion:	152	Resp:	95363
Ion Ratio	Lower	Upper	
152	100		
115	60.9	30.3	91.0
150	171.6	0.0	349.8



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





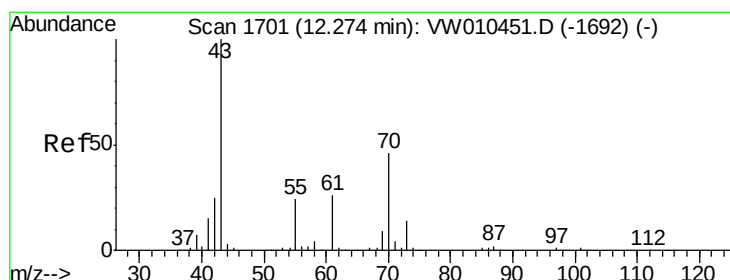
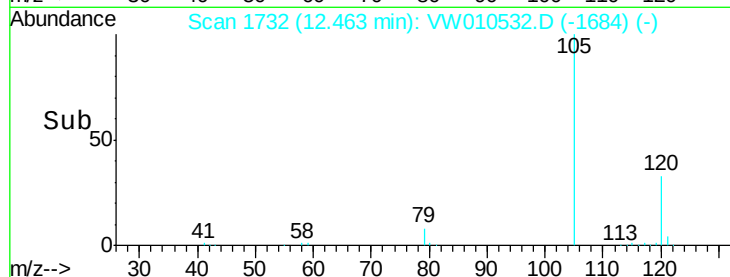
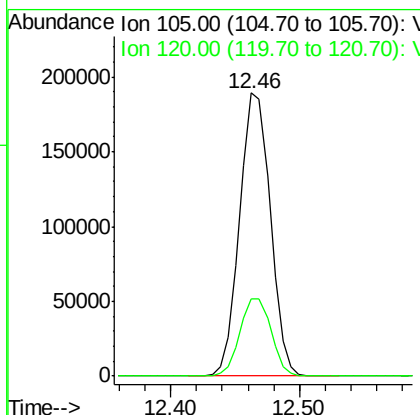
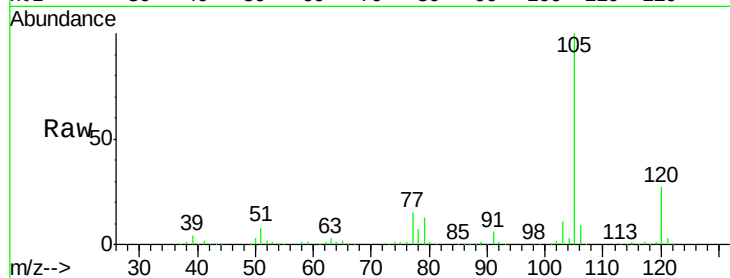
#73
Isopropylbenzene
Concen: 41.229 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.9	13.9	41.7

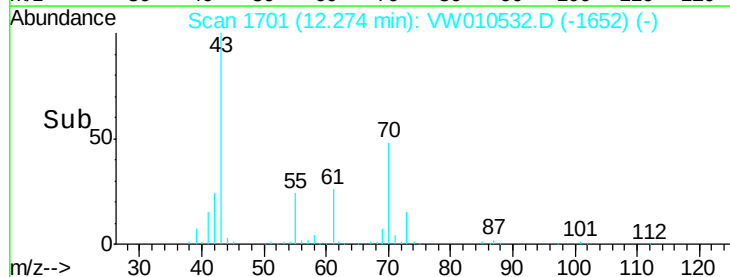
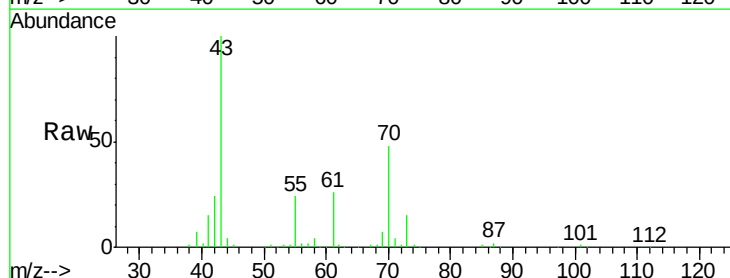
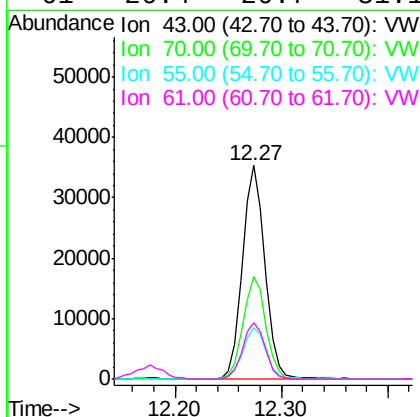
Manual Integrations
APPROVED

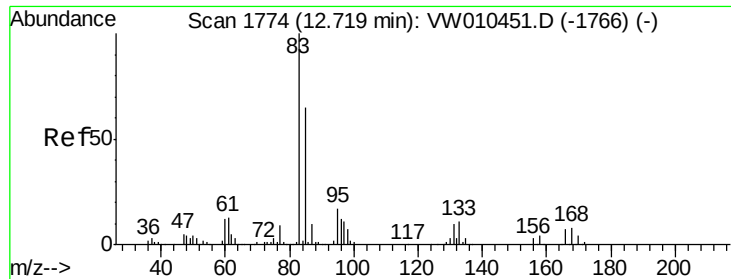
MMDadoda
5/24/2019 10:44:24 PM



#74
N-ethyl acetate
Concen: 30.331 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
43	100		
70	48.1	37.1	55.7
55	24.9	19.6	29.4
61	26.4	20.7	31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 39.630 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

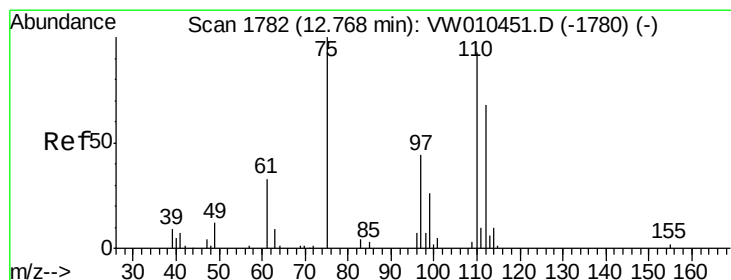
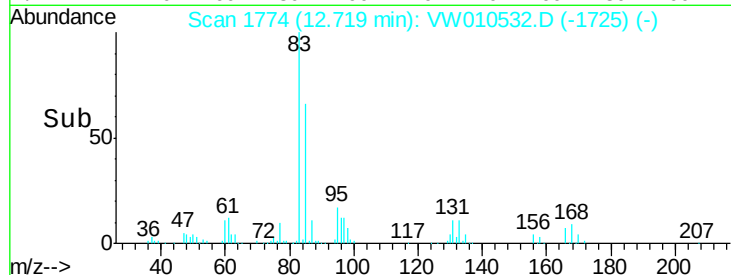
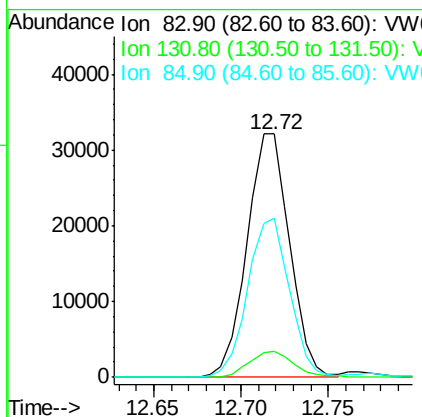
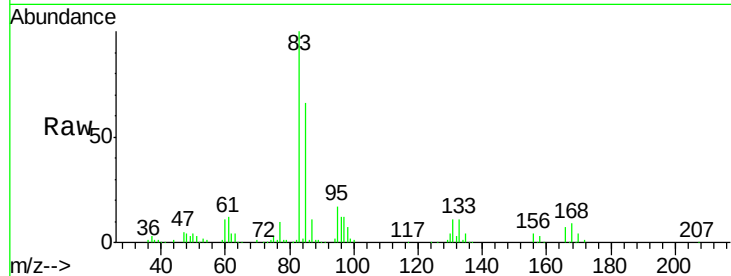
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	83	Resp:	54547
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.6	16.8
85	64.0	32.4	97.0

Manual Integrations
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5/24/2019 10:44:24 PM



#76

1,2,3-Trichloropropane

Concen: 39.222 ug/l m

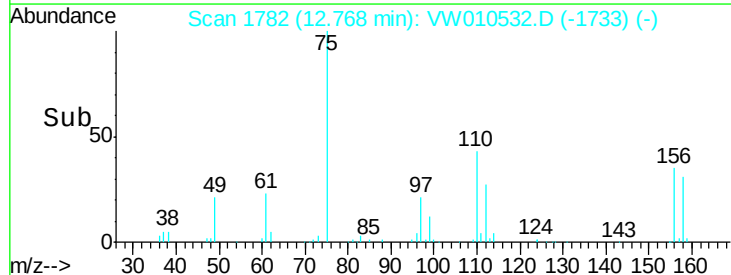
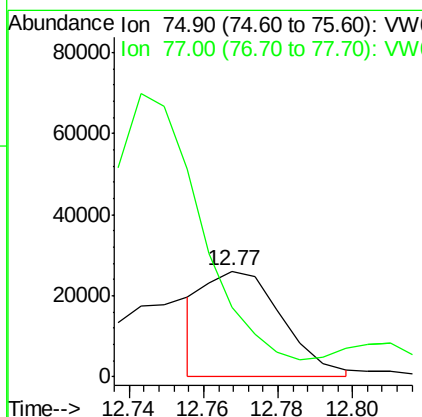
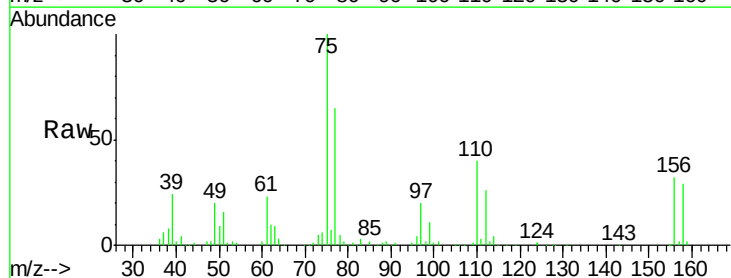
RT: 12.77 min Scan# 1782

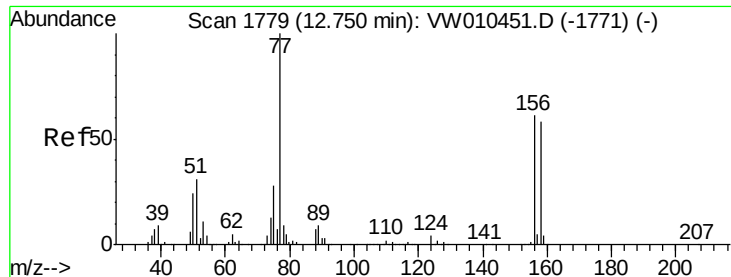
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	75	Resp:	37967
Ion Ratio	Lower	Upper	
75	100		
77	0.0	170.0	510.1#





#77

Bromobenzene

Concen: 42.010 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

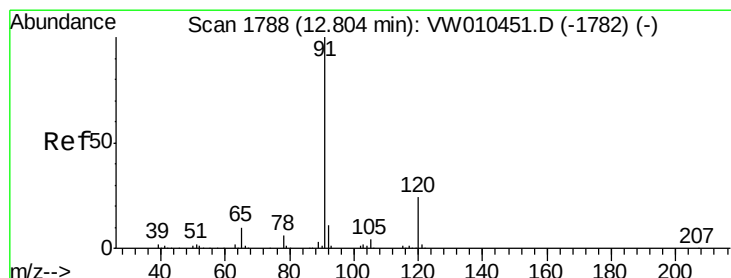
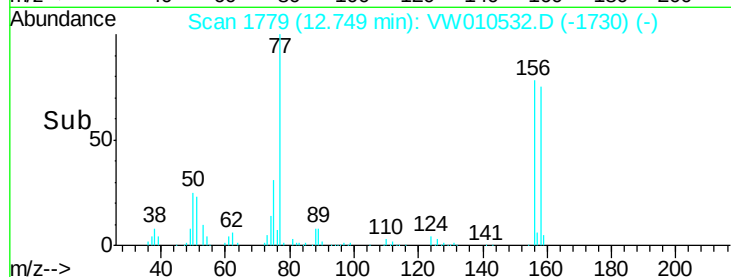
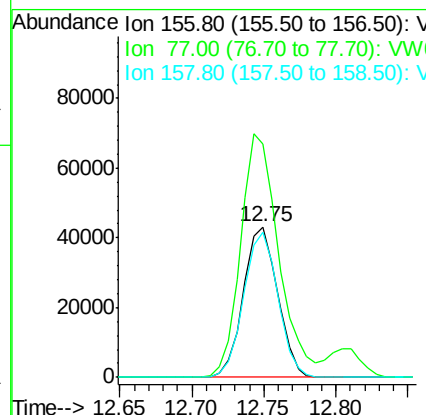
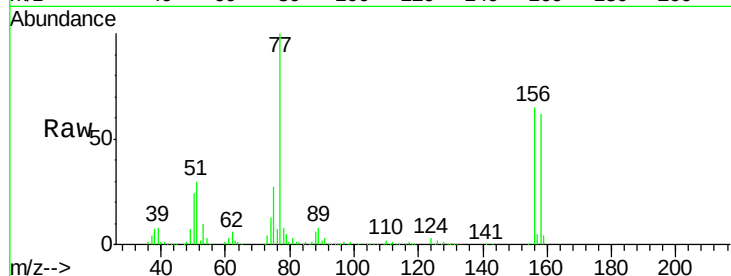
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	156	Resp:	71141
Ion Ratio	Lower	Upper	
156	100		
77	180.1	92.4	277.2
158	96.2	48.3	144.8

Manual Integrations
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#78

n-propylbenzene

Concen: 40.050 ug/l

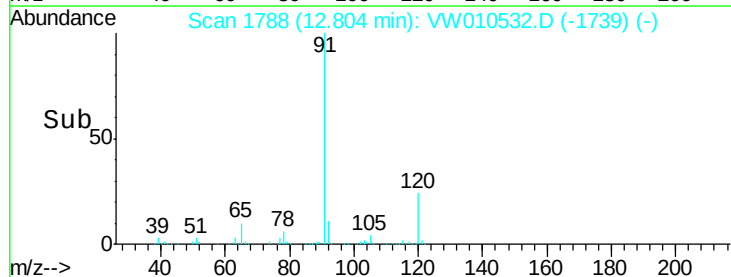
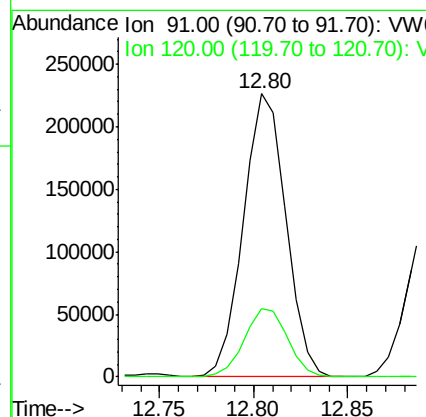
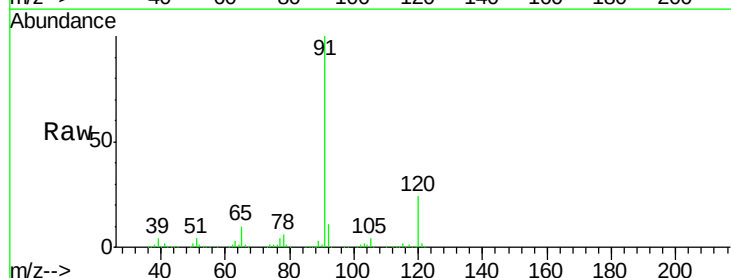
RT: 12.80 min Scan# 1788

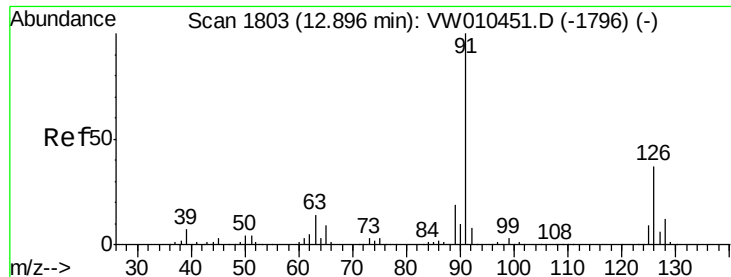
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	91	Resp:	353198
Ion Ratio	Lower	Upper	
91	100		
120	24.6	12.3	36.8





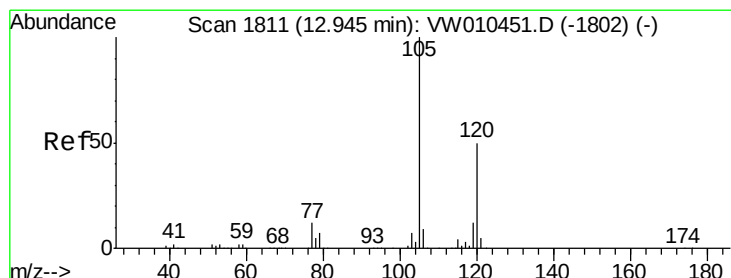
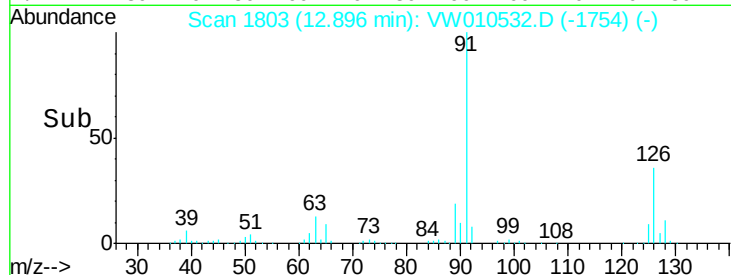
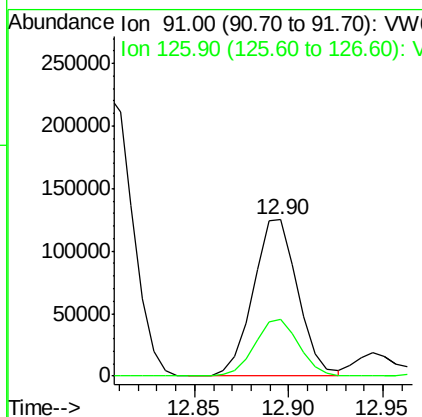
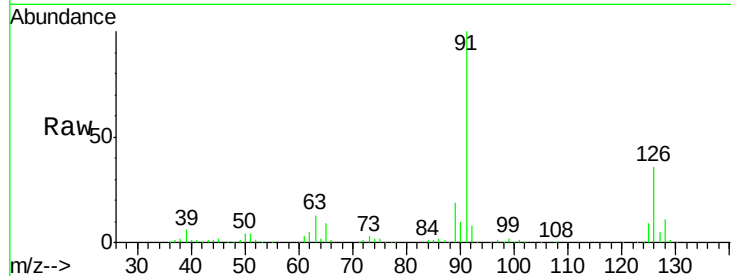
#79
2-Chlorotoluene
Concen: 40.151 ug/l
RT: 12.90 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion: 91 Resp: 205340
Ion Ratio Lower Upper
91 100
126 35.8 17.4 52.3

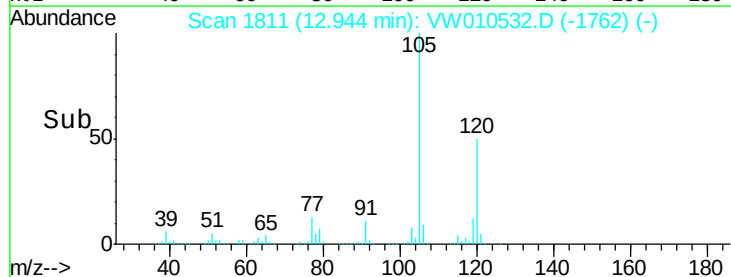
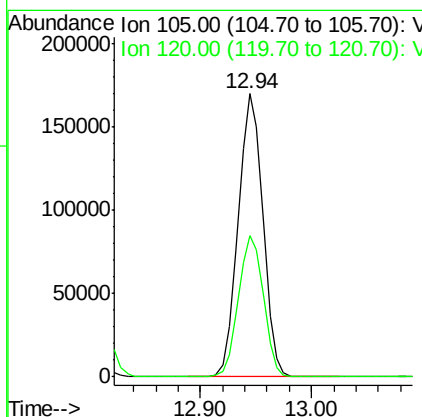
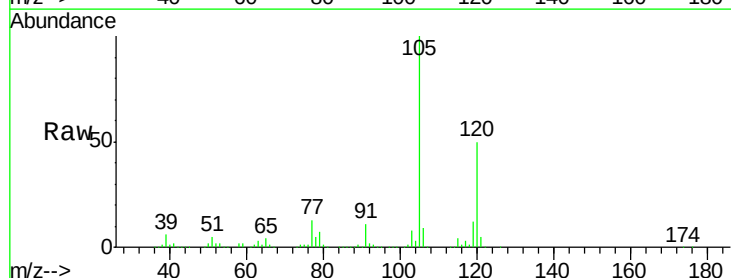
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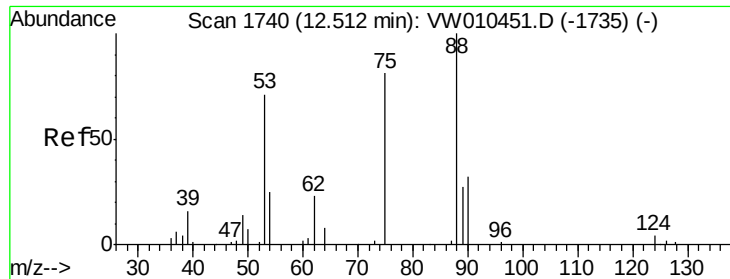
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#80
1,3,5-Trimethylbenzene
Concen: 40.584 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion:105 Resp: 260110
Ion Ratio Lower Upper
105 100
120 50.5 25.2 75.6





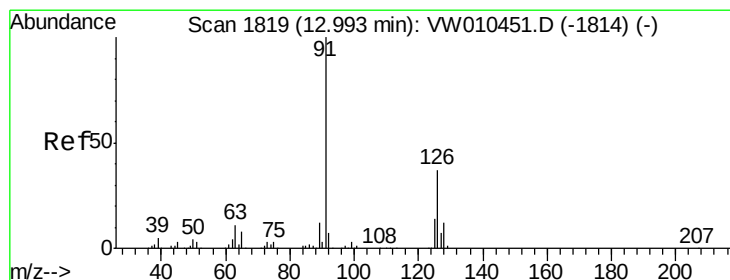
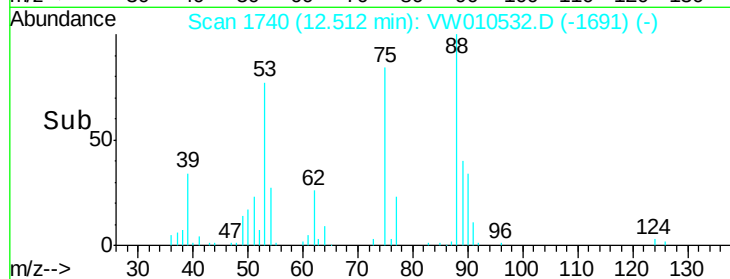
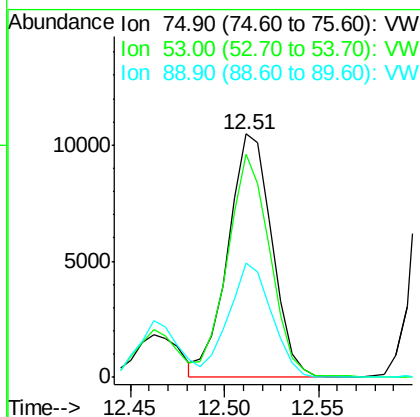
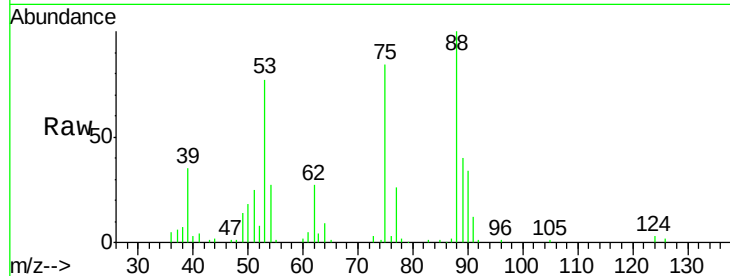
#81
trans-1,4-Dichloro-2-butene
Concen: 36.543 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.1	69.8	104.8
89	46.1	39.5	59.3

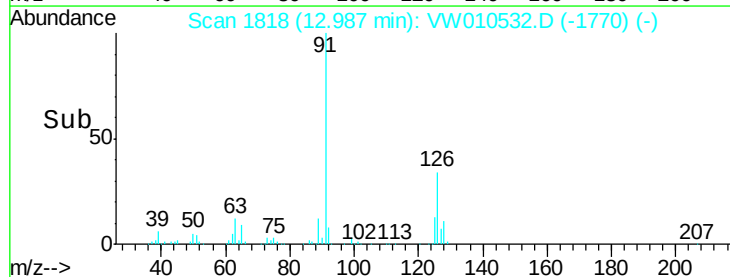
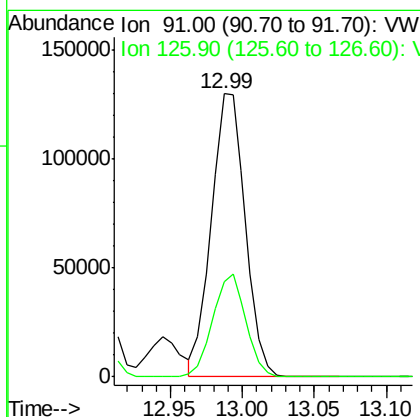
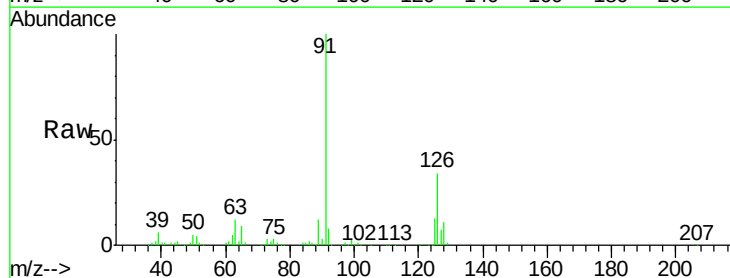
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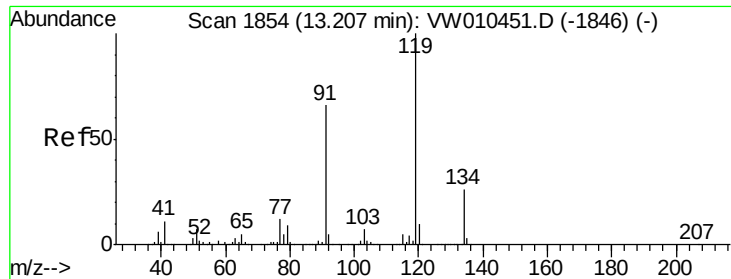
MMDadoda
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#82
4-Chlorotoluene
Concen: 40.179 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.5	52.6





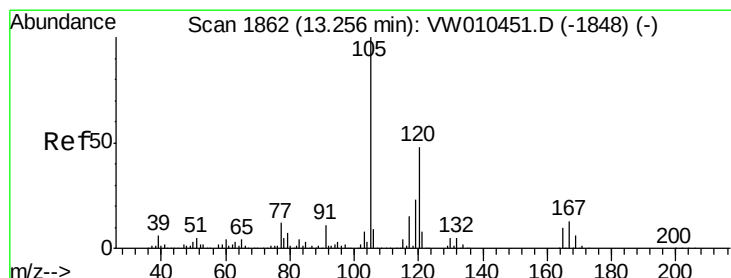
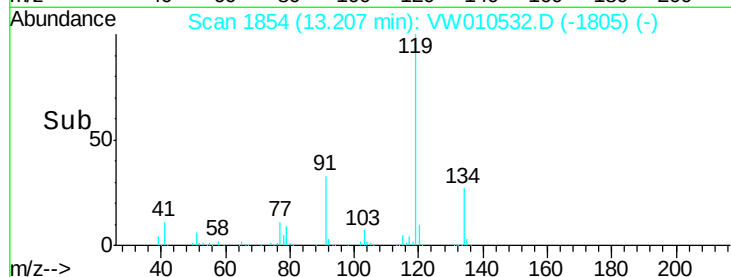
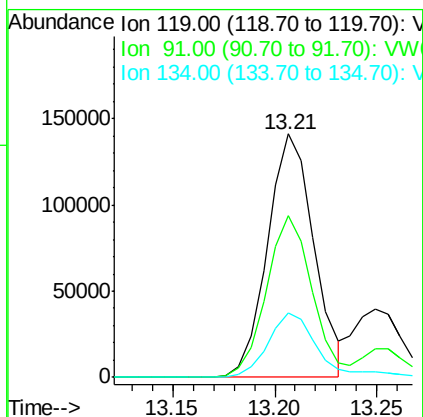
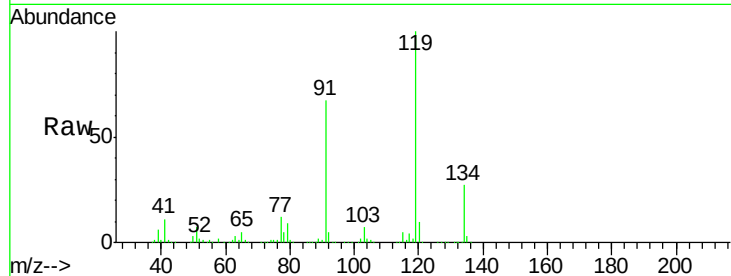
#83
tert-Butylbenzene
Concen: 39.974 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	223792		
91	65.9		33.1	99.5
134	28.6		13.9	41.6

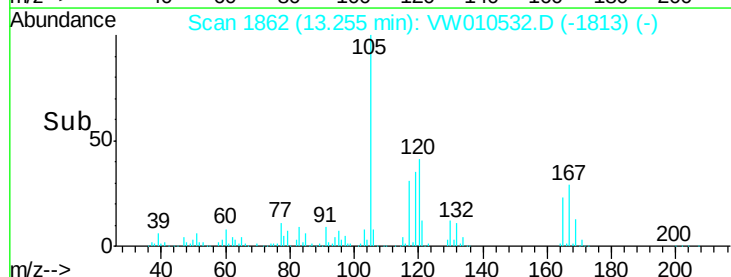
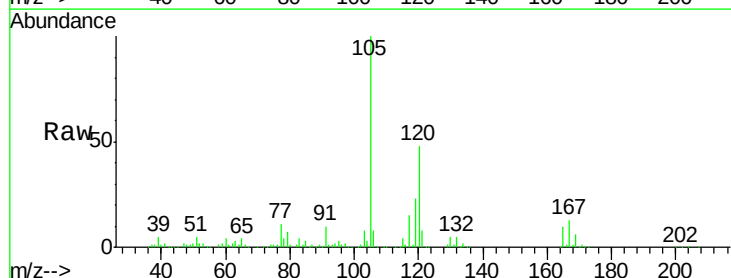
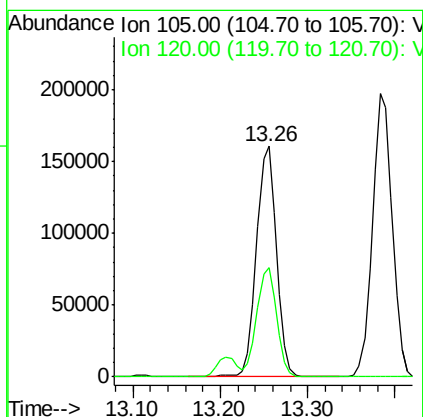
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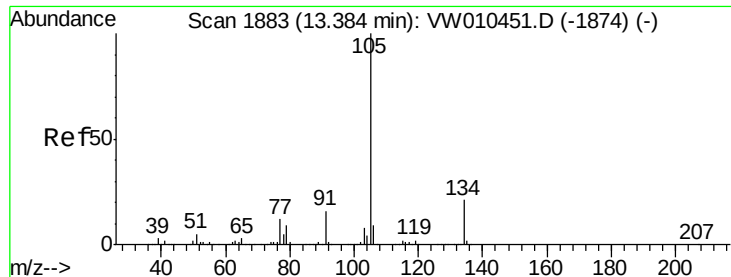
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#84
1,2,4-Trimethylbenzene
Concen: 39.782 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	253939		
120	47.4		23.4	70.2





#85

sec-Butylbenzene

Concen: 39.487 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:105 Resp: 309361

Ion Ratio Lower Upper

105 100

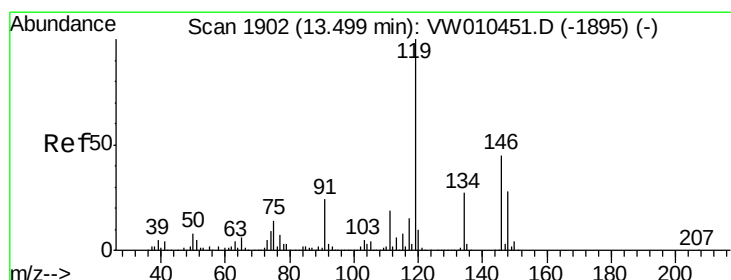
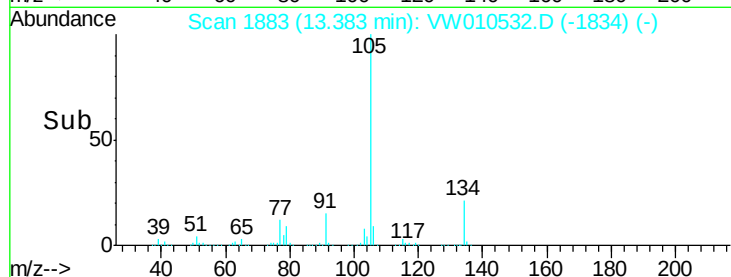
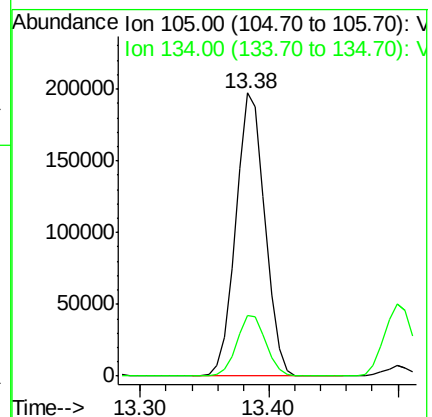
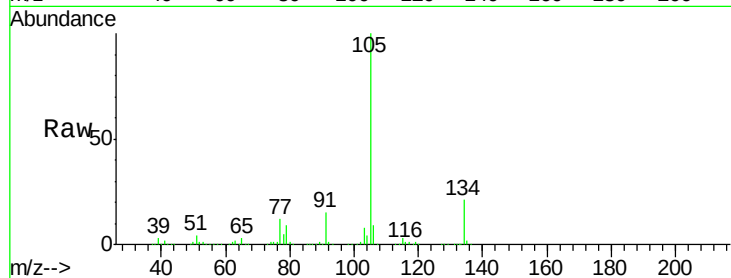
134 21.5 10.5 31.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 39.109 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

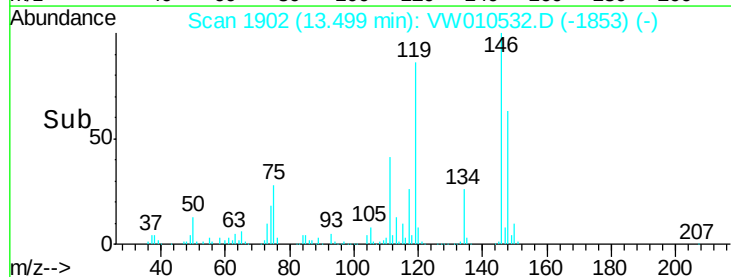
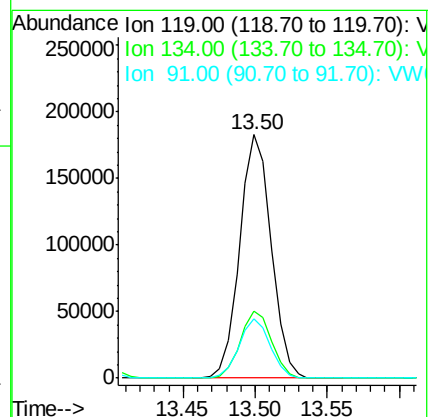
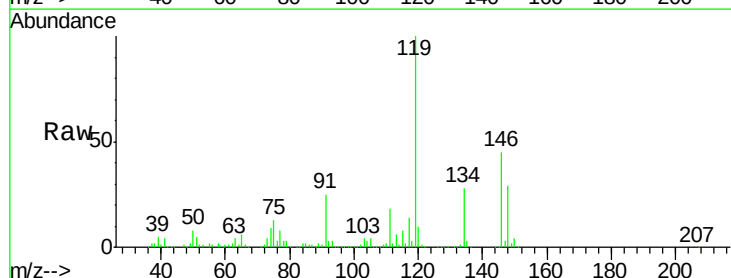
Tgt Ion:119 Resp: 277336

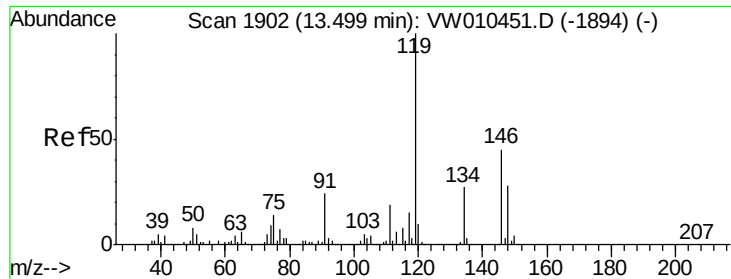
Ion Ratio Lower Upper

119 100

134 27.6 13.6 40.7

91 24.0 11.9 35.7





#87

1,3-Dichlorobenzene

Concen: 40.228 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Instrument :

MSVOA_W

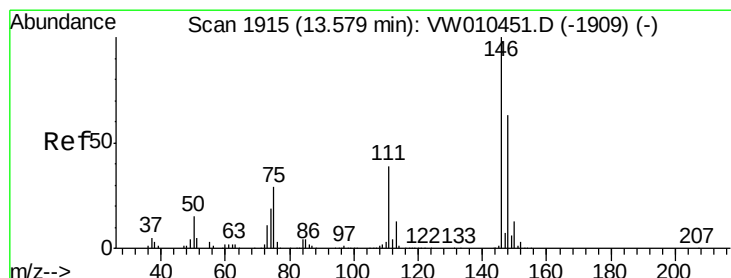
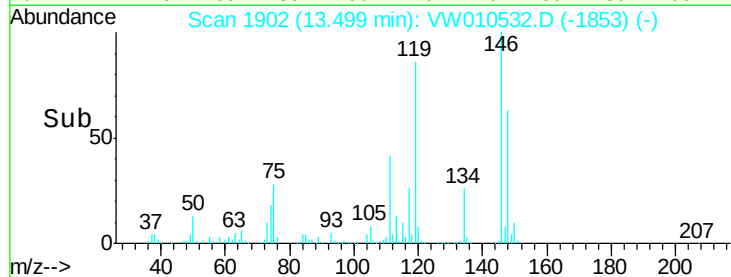
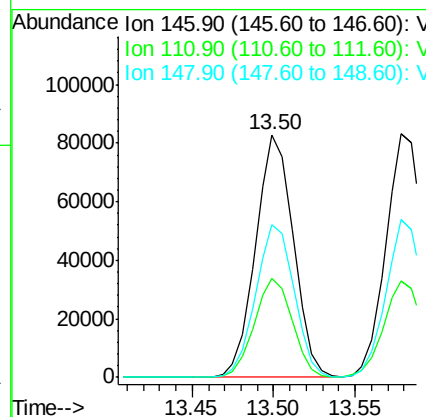
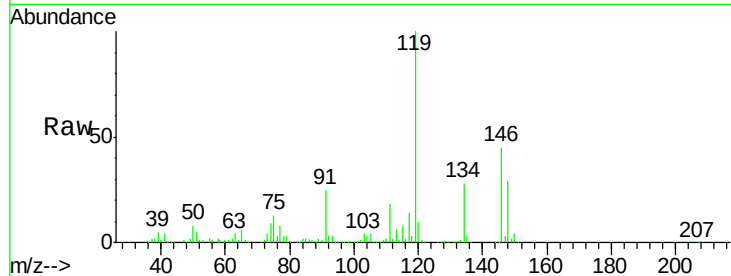
ClientSampleId :

FESB-23(3-3.5)MSD

Tot Ion:	146	Resp:	133653
Ion Ratio	Lower	Upper	
146	100		
111	40.9	20.3	60.9
148	64.1	31.6	94.8

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 40.209 ug/l

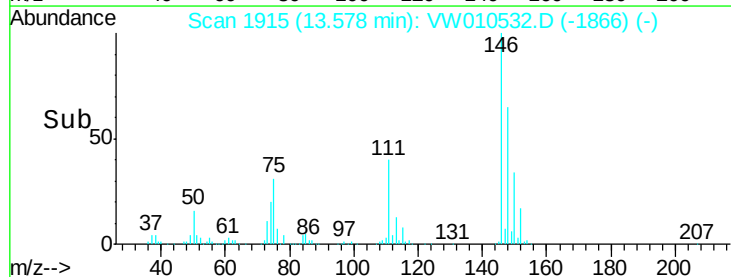
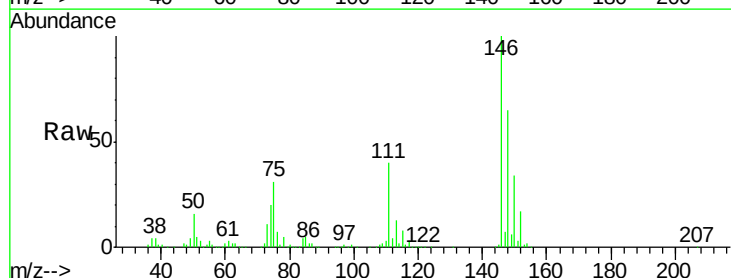
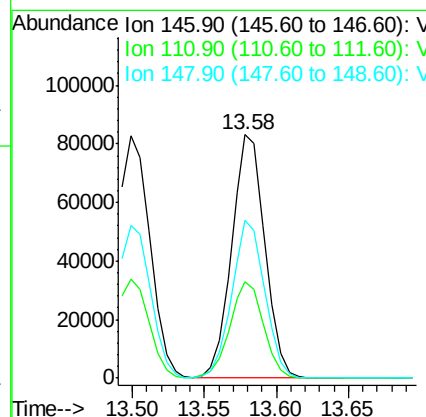
RT: 13.58 min Scan# 1915

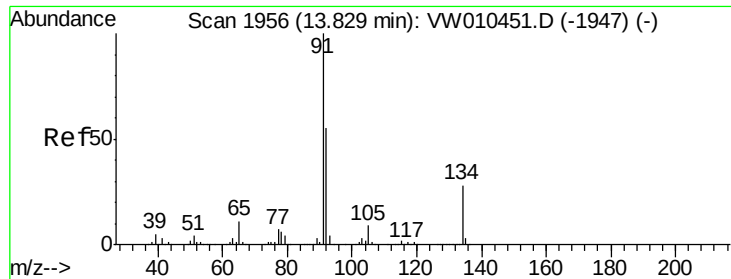
Delta R.T. -0.00 min

Lab File: VW010532.D

Acq: 23 May 2019 16:15

Tgt Ion:	146	Resp:	134036
Ion Ratio	Lower	Upper	
146	100		
111	40.4	19.9	59.6
148	64.3	31.6	94.8





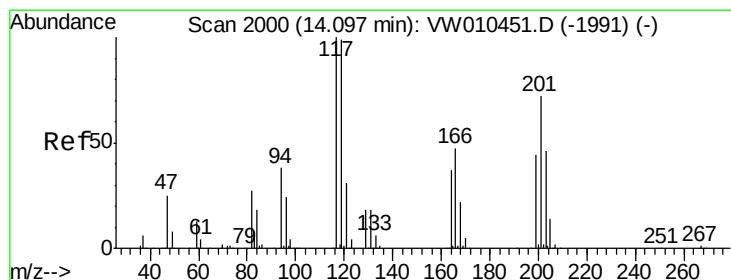
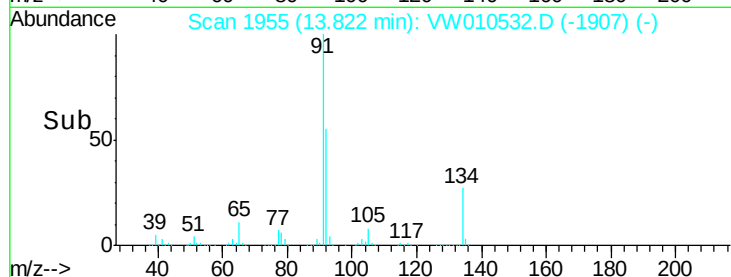
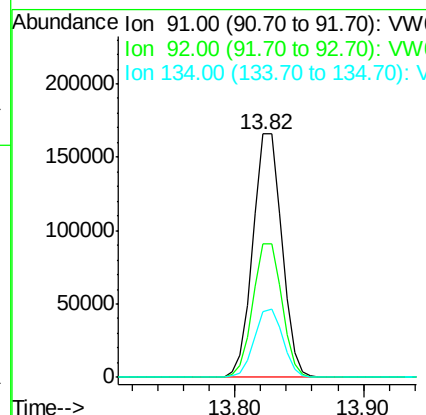
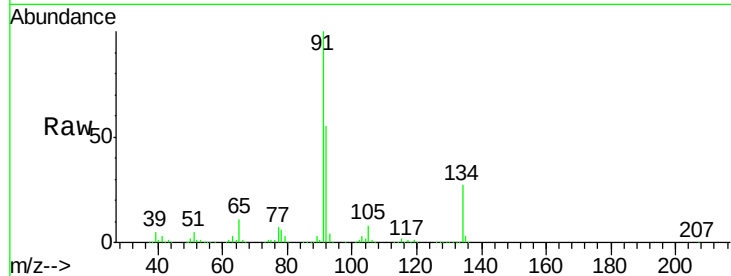
#89
n-Butylbenzene
Concen: 37.876 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.01 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	55.4	27.7	83.1	
134	27.8	13.9	41.6	

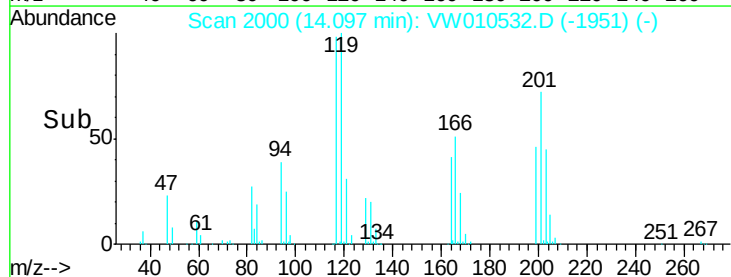
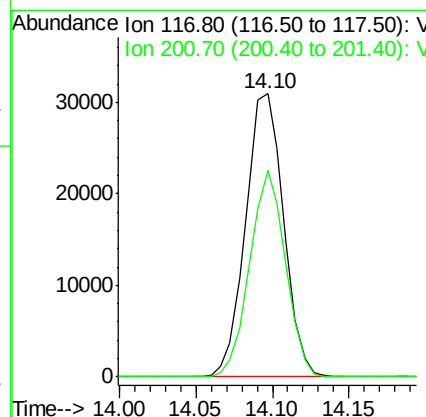
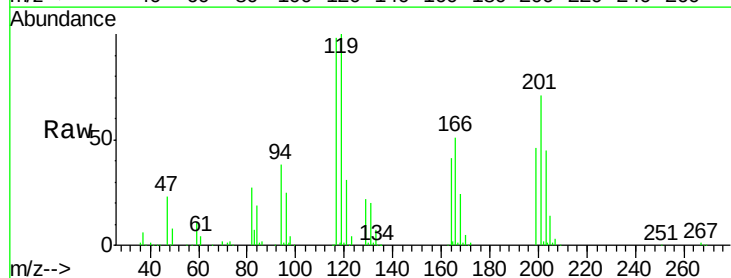
Manual Integrations
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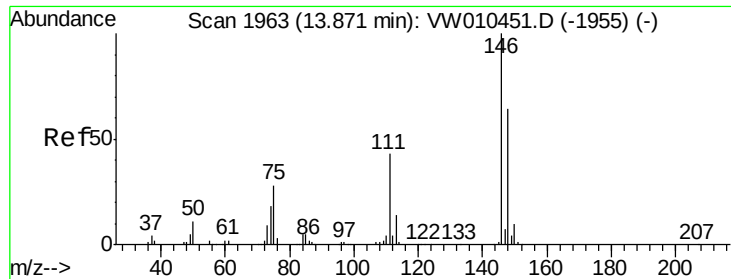
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#90
Hexachloroethane
Concen: 38.858 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	68.8	34.6	103.8	





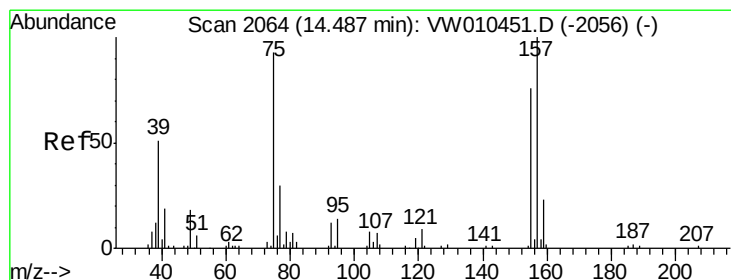
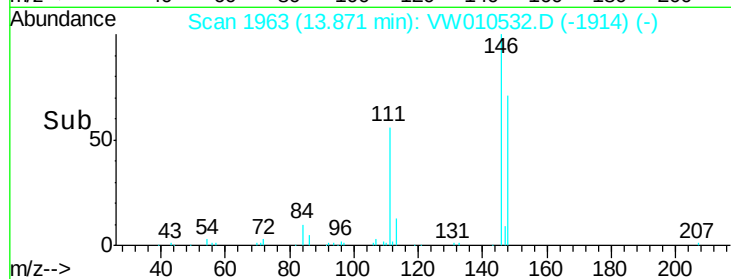
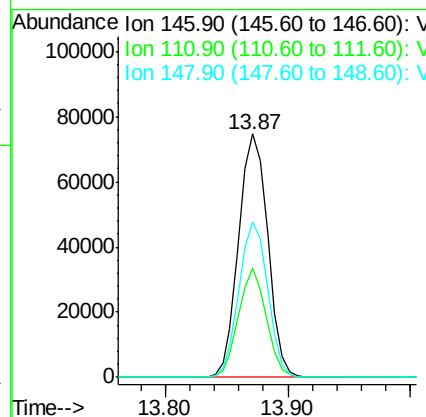
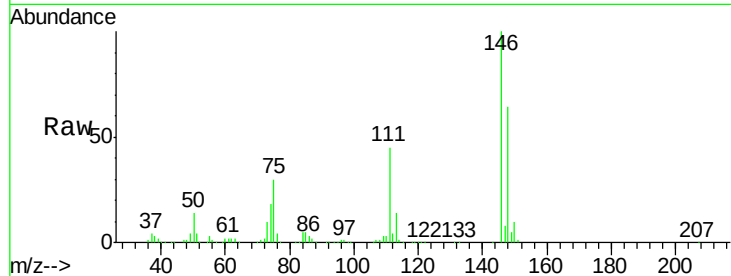
#91
1,2-Dichlorobenzene
Concen: 40.621 ug/l
RT: 13.87 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	64.0
148	63.2	32.0	96.0

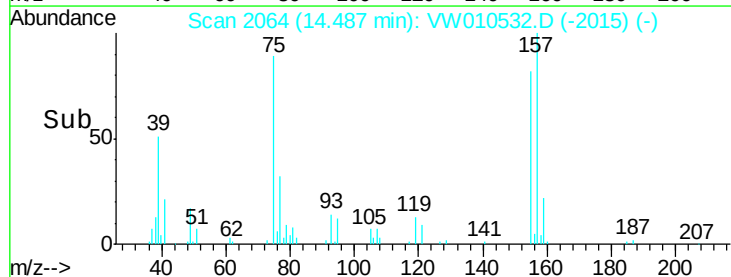
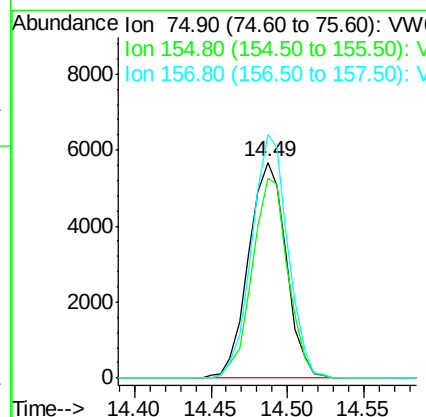
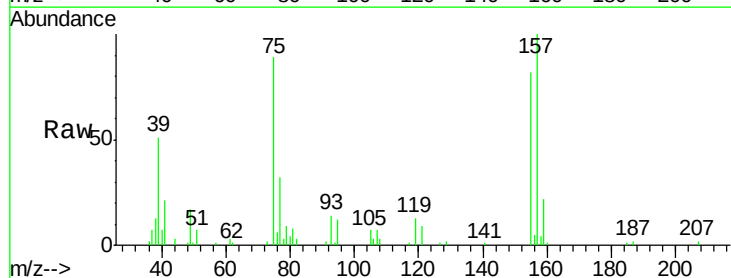
Manual Integrations
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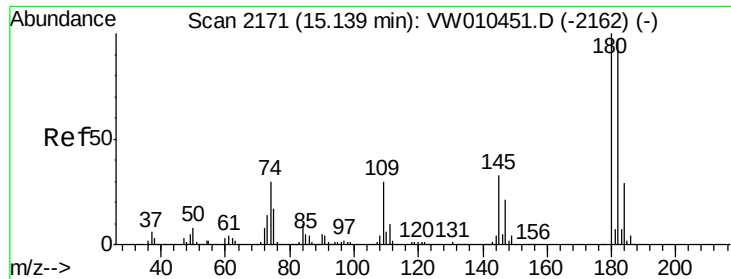
MMDadoda
5/24/2019 10:44:24 PM



#92
1,2-Dibromo-3-Chloropropane
Concen: 37.854 ug/l
RT: 14.49 min Scan# 2064
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.2	43.0	129.0
157	108.4	55.7	167.1





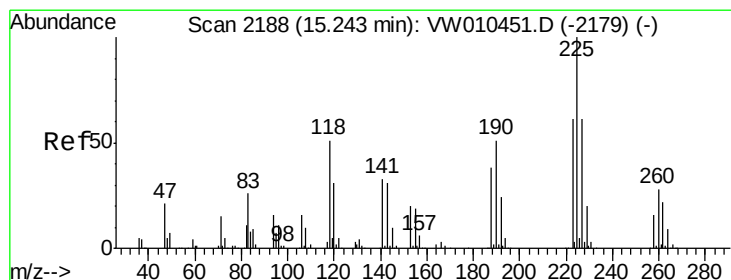
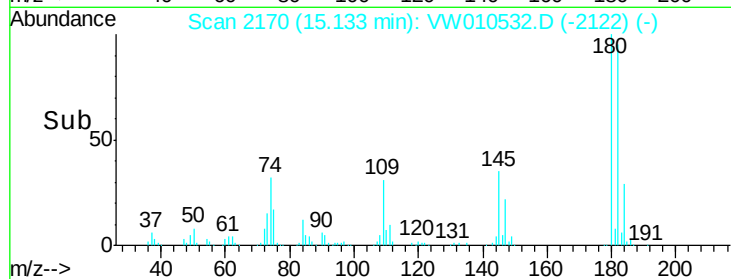
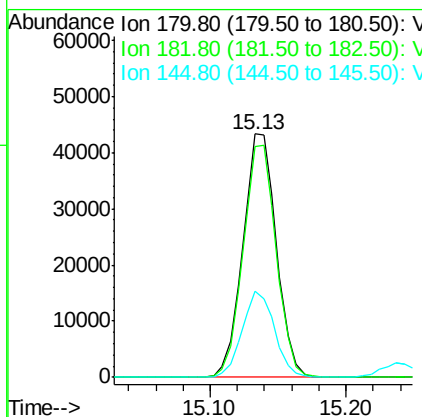
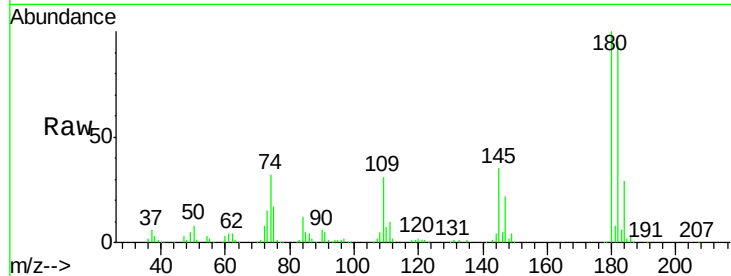
#93
 1,2,4-Trichlorobenzene
 Concen: 36.127 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Instrument :
 MSVOA_W
 ClientSampleId :
 FESB-23(3-3.5)MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.0	141.2
145	34.0	16.7	50.0

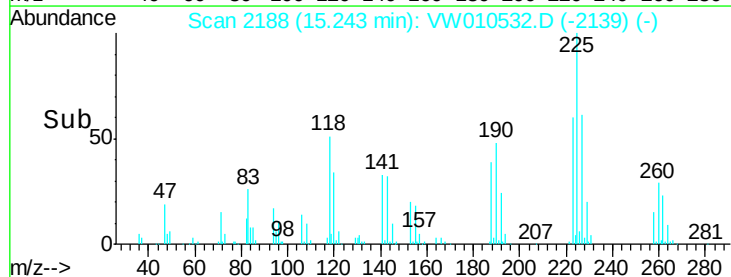
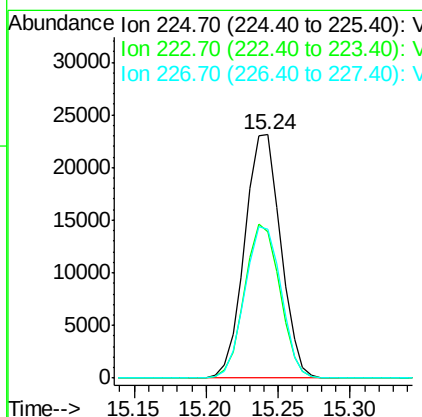
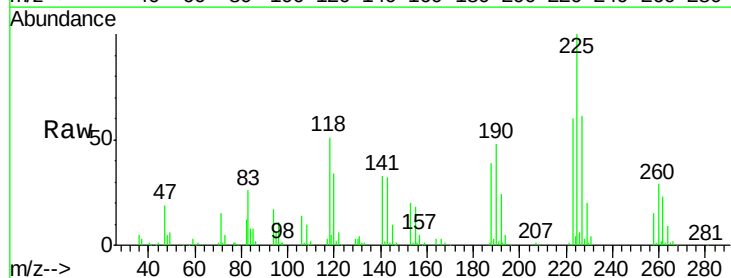
Manual Integrations
 APPROVED

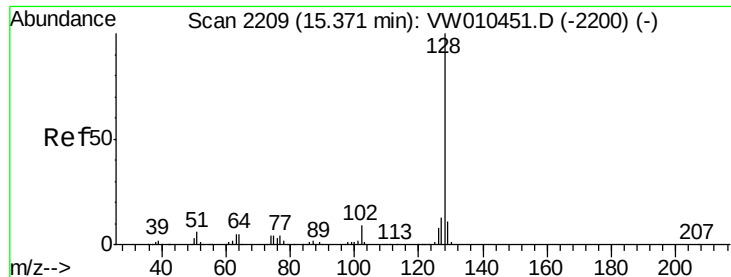
MMDadoda
 5/24/2019 10:44:24 PM



#94
 Hexachlorobutadiene
 Concen: 36.362 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW010532.D
 Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.1	93.2
227	62.8	31.1	93.5





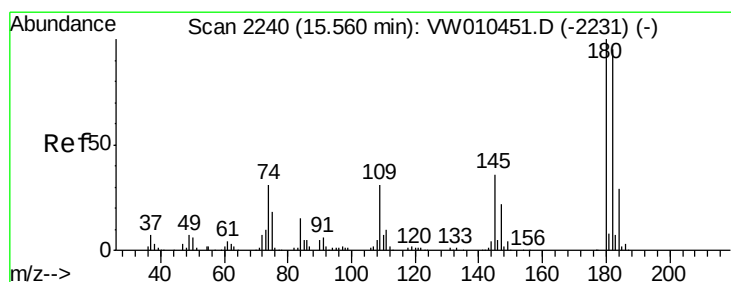
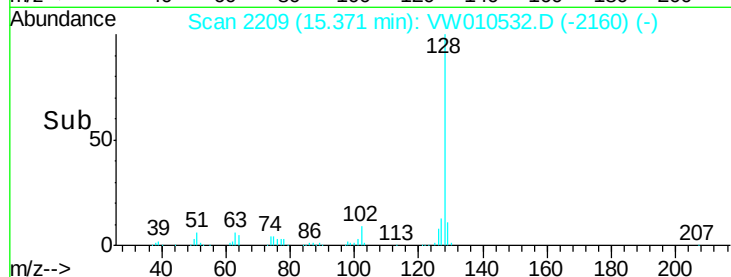
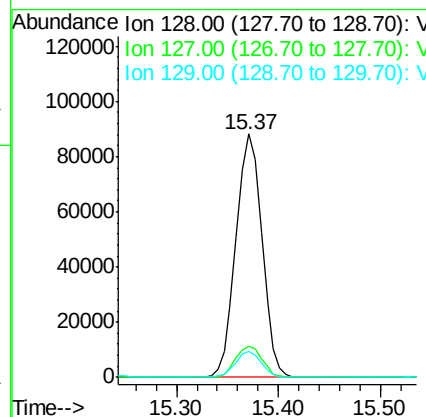
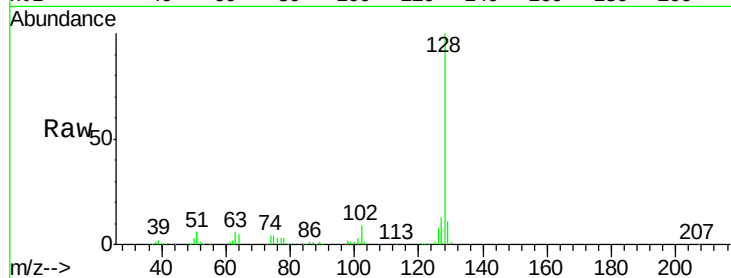
#95
Naphthalene
Concen: 36.122 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Instrument :
MSVOA_W
ClientSampleId :
FESB-23(3-3.5)MSD

Tot Ion	Ratio	Resp	Lower	Upper
128	100	156178		
127	13.1	10.6	15.8	
129	10.5	8.9	13.3	

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:44:24 PM



#96
1,2,3-Trichlorobenzene
Concen: 35.728 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VW010532.D
Acq: 23 May 2019 16:15

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	63322		
182	95.0	47.1	141.3	
145	35.7	17.4	52.3	

