

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121018\
 Data File : VF060953.D
 Acq On : 10 Dec 2018 14:59
 Operator : VA/AP
 Sample : VF1210SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 4:15:43 PM

Quant Time: Dec 11 06:13:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	193076	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	323773	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.78	117	288082	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	154123	50.00	ug/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	125520	55.19	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	110.38%	
35) Dibromofluoromethane	4.10	113	129451	50.40	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	100.80%	
50) Toluene-d8	7.56	98	351669	46.48	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	92.96%	
62) 4-Bromofluorobenzene	11.41	95	160871	46.78	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	93.56%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	62757	21.739	ug/l	100
3) Chloromethane	1.09	50	43322	23.061	ug/l	90
4) Vinyl Chloride	1.14	62	40137	22.906	ug/l	91
5) Bromomethane	1.32	94	28060	22.710	ug/l	97
6) Chloroethane	1.40	64	18617	24.579	ug/l #	79
7) Trichlorofluoromethane	1.48	101	90269m	24.010	ug/l	
8) Diethyl Ether	1.62	74	11836	21.893	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.83	101	43697	22.990	ug/l	91
10) Methyl Iodide	1.91	142	67869m	23.492	ug/l	
11) Tert butyl alcohol	2.56	59	11166	119.759	ug/l	97
12) 1,1-Dichloroethene	1.80	96	33086	21.642	ug/l	92
13) Acrolein	1.99	56	8706	98.552	ug/l	100
14) Allyl chloride	2.08	41	40365	21.184	ug/l	99
15) Acrylonitrile	2.94	53	27321	130.703	ug/l	94
16) Acetone	2.24	43	52777	125.830	ug/l	97
17) Carbon Disulfide	1.81	76	95593m	23.321	ug/l	
18) Methyl Acetate	2.34	43	21333	29.645	ug/l	100
19) Methyl tert-butyl Ether	2.43	73	79699	23.146	ug/l	100
20) Methylene Chloride	2.27	84	38896m	25.278	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	34294m	23.268	ug/l	
22) Diisopropyl ether	2.79	45	119194	22.981	ug/l	97
23) Vinyl Acetate	3.18	43	305774	128.969	ug/l	100
24) 1,1-Dichloroethane	2.86	63	74337	24.089	ug/l	99
25) 2-Butanone	4.33	43	94793	130.665	ug/l	97
26) 2,2-Dichloropropane	3.59	77	43471	21.729	ug/l	96
27) cis-1,2-Dichloroethene	3.47	96	51646	21.524	ug/l	97
28) Bromochloromethane	3.71	49	33902	22.891	ug/l	97
29) Tetrahydrofuran	4.07	42	36324	118.121	ug/l	96
30) Chloroform	3.85	83	107359	22.605	ug/l	96
31) Cyclohexane	3.68	56	72886m	22.758	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	62145	18.867	ug/l	99
36) 1,1-Dichloropropene	4.27	75	82127	22.869	ug/l	99
37) Ethyl Acetate	4.10	43	36232	24.827	ug/l	90
38) Carbon Tetrachloride	3.99	117	65481	20.644	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	75747	20.127	ug/l	94
40) Benzene	4.63	78	171082	21.564	ug/l	96
41) Methacrylonitrile	4.73	41	21253	26.288	ug/l #	88
42) 1,2-Dichloroethane	4.93	62	65059	22.462	ug/l	97
43) Isopropyl Acetate	6.95	43	41721	21.628	ug/l #	98
44) Trichloroethene	5.49	130	57762	22.267	ug/l	98
45) 1,2-Dichloropropane	6.23	63	45860	22.257	ug/l	99
46) Dibromomethane	6.09	93	31694	22.675	ug/l	92
47) Bromodichloromethane	6.38	83	82436	22.205	ug/l	94
48) Methyl methacrylate	6.71	41	27845	21.079	ug/l	96
49) 1,4-Dioxane	6.71	88	4343	449.222	ug/l #	72
51) 4-Methyl-2-Pentanone	8.26	43	156238	116.096	ug/l	96
52) Toluene	7.62	92	111185	19.952	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	64692	21.423	ug/l	100
54) cis-1,3-Dichloropropene	7.30	75	83910	22.446	ug/l	95
55) 1,1,2-Trichloroethane	8.49	97	35240	21.702	ug/l	98
56) Ethyl methacrylate	8.62	69	36561	20.268	ug/l	94
57) 1,3-Dichloropropane	8.85	76	63566	22.375	ug/l	88
58) 2-Chloroethyl Vinyl ether	7.29	63	27904	151.234	ug/l	94
59) 2-Hexanone	9.49	43	110783	117.338	ug/l	96
60) Dibromochloromethane	8.71	129	50683	20.948	ug/l	100
61) 1,2-Dibromoethane	8.99	107	36102	20.580	ug/l	86
64) Tetrachloroethene	8.15	164	47001	21.360	ug/l	97
65) Chlorobenzene	9.80	112	128240	22.882	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	54091	22.451	ug/l	95
67) Ethyl Benzene	9.89	91	232901	22.322	ug/l	99
68) m/p-Xylenes	10.13	106	172761	46.039	ug/l	97
69) o-Xylene	10.71	106	92299	22.306	ug/l	89
70) Styrene	10.79	104	121208	21.131	ug/l	97
71) Bromoform	10.77	173	25378	21.807	ug/l #	93
73) Isopropylbenzene	11.13	105	286609	23.532	ug/l	99
74) N-amyl acetate	11.37	43	67574	24.027	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	48929	24.410	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	36757	25.228	ug/l	99
77) Bromobenzene	11.49	156	60635	22.708	ug/l	87
78) n-propylbenzene	11.59	91	319939	22.431	ug/l	98
79) 2-Chlorotoluene	11.72	91	195994	23.965	ug/l	99
80) 1,3,5-Trimethylbenzene	11.83	105	237089	23.978	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	16388m	22.956	ug/l	
82) 4-Chlorotoluene	11.90	91	192599	22.378	ug/l	97
83) tert-Butylbenzene	12.13	119	244031	24.229	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	227310	23.035	ug/l	96
85) sec-Butylbenzene	12.30	105	325255	23.590	ug/l	97
86) p-Isopropyltoluene	12.46	119	273554	23.665	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	115748	22.789	ug/l	97
88) 1,4-Dichlorobenzene	12.57	146	112489	22.726	ug/l	99
89) n-Butylbenzene	12.84	91	270667	23.157	ug/l	97
90) Hexachloroethane	12.91	117	65296	23.458	ug/l	96
91) 1,2-Dichlorobenzene	12.94	146	109267	22.717	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8844	22.820	ug/l	92

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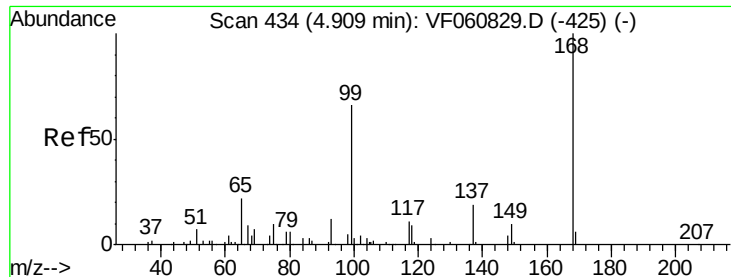
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	79631	23.694	ug/l	99
94) Hexachlorobutadiene	14.18	225	50985	22.757	ug/l	99
95) Naphthalene	14.45	128	140463	19.391	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	74442	23.855	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.05 min

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Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 168 Resp: 193076

Ion Ratio Lower Upper

168 100

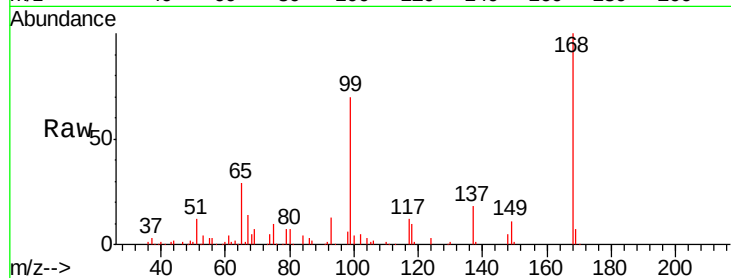
99 70.5 52.6 79.0

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

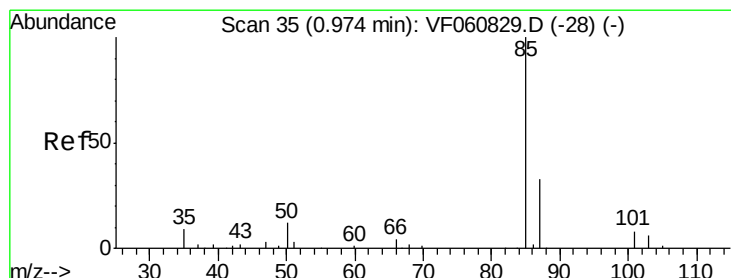
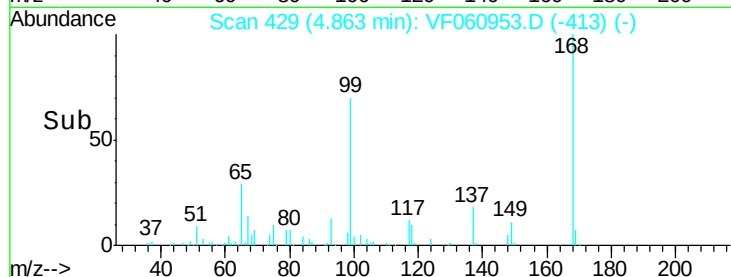
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 21.739 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF060953.D

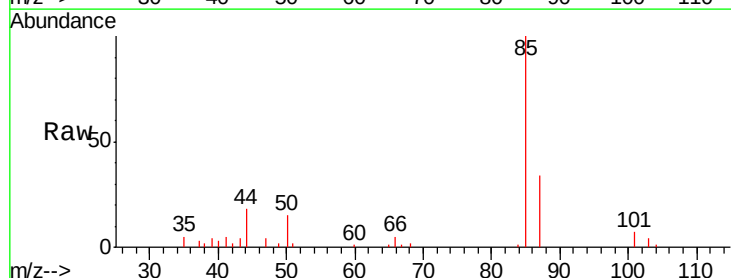
Acq: 10 Dec 2018 14:59

Tgt Ion: 85 Resp: 62757

Ion Ratio Lower Upper

85 100

87 33.6 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

15000

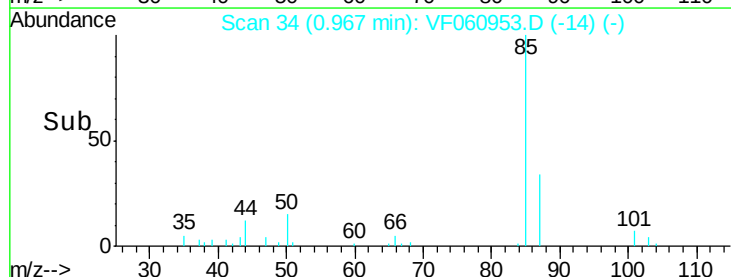
10000

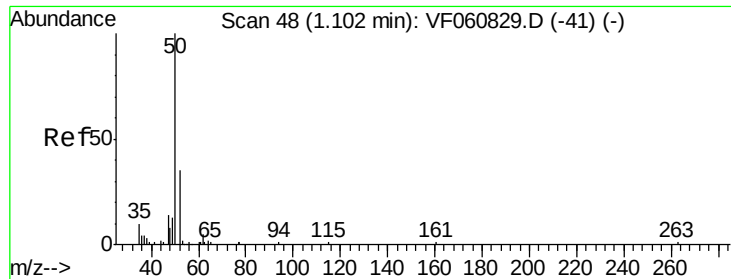
5000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 23.061 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 50 Resp: 43322

Ion Ratio Lower Upper

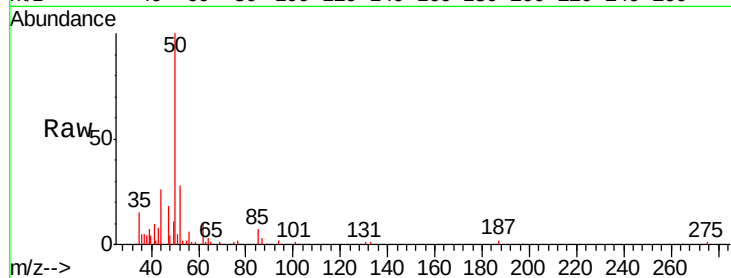
50 100

52 27.9 27.0 40.4

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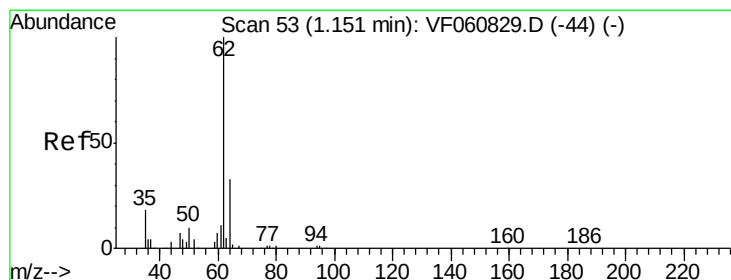
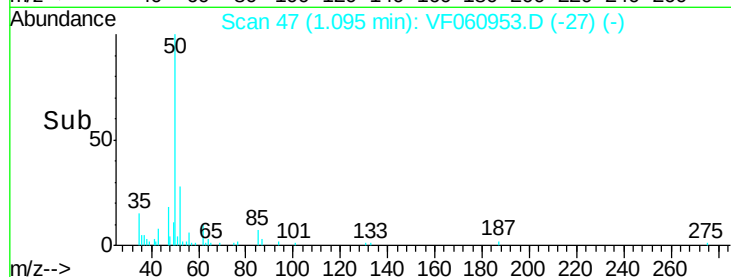
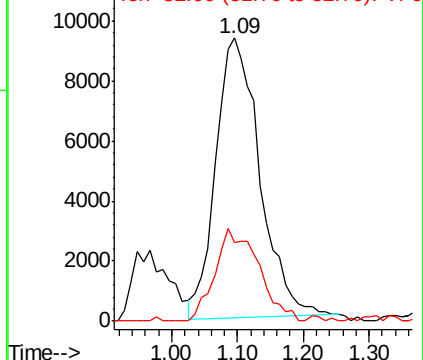
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 22.906 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060953.D

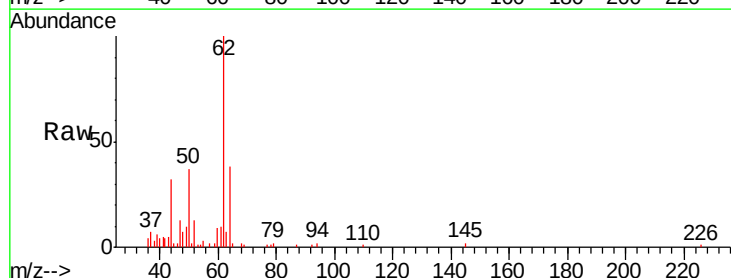
Acq: 10 Dec 2018 14:59

Tgt Ion: 62 Resp: 40137

Ion Ratio Lower Upper

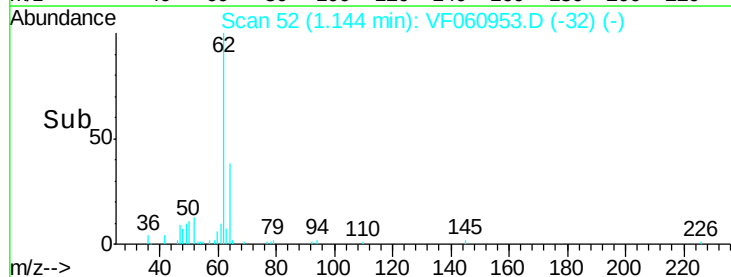
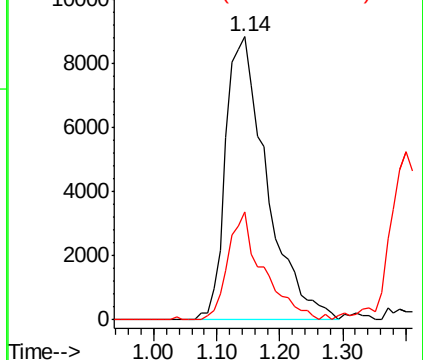
62 100

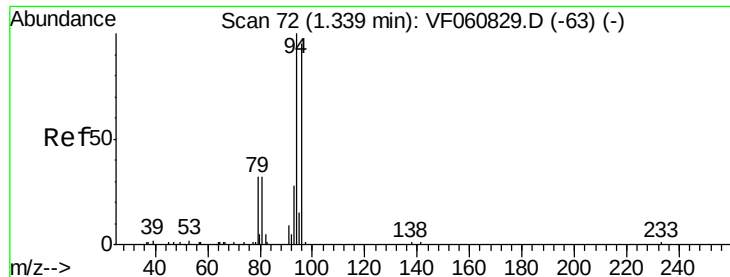
64 38.0 26.4 39.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 22.710 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBSD01

Tgt Ion: 94 Resp: 28060

Ion Ratio Lower Upper

94 100

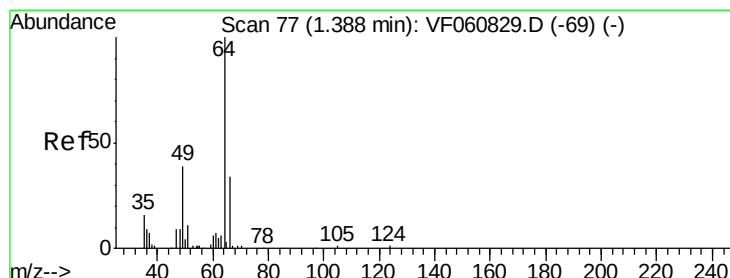
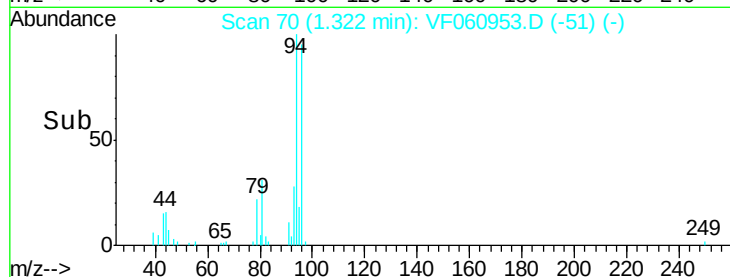
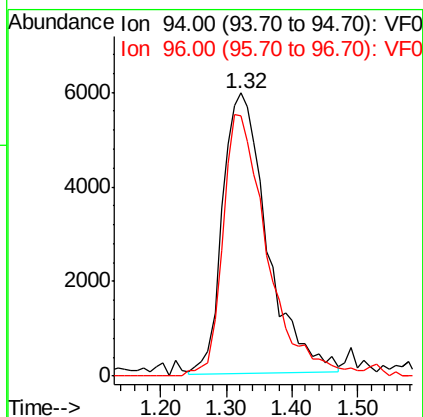
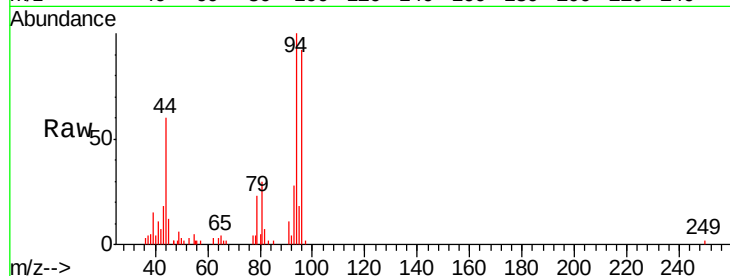
96 92.1 75.9 113.9

Manual Integrations

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#6

Chloroethane

Concen: 24.579 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF060953.D

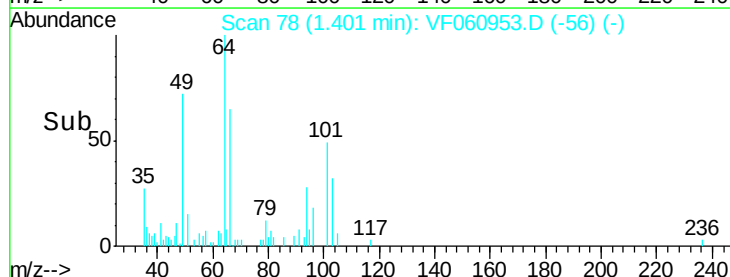
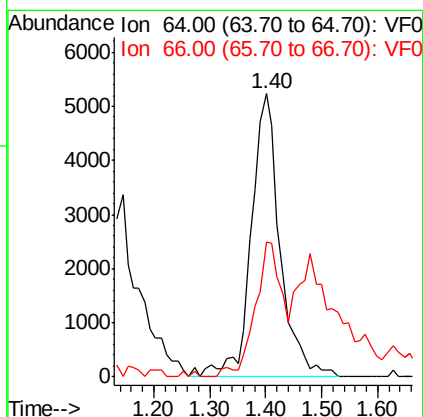
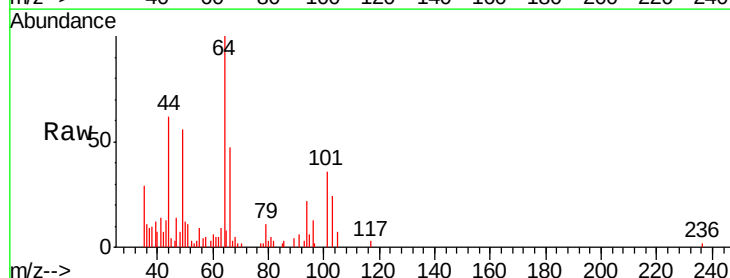
Acq: 10 Dec 2018 14:59

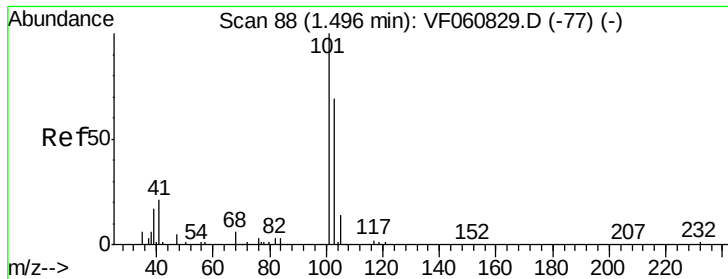
Tgt Ion: 64 Resp: 18617

Ion Ratio Lower Upper

64 100

66 47.5 28.1 42.1#





#7

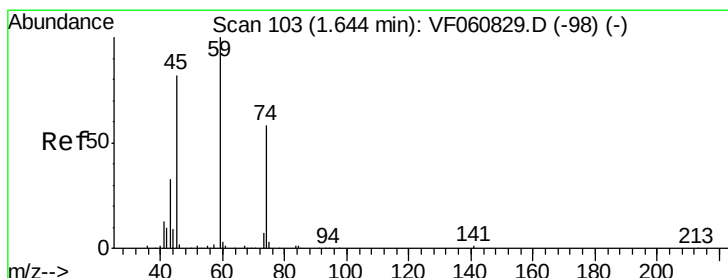
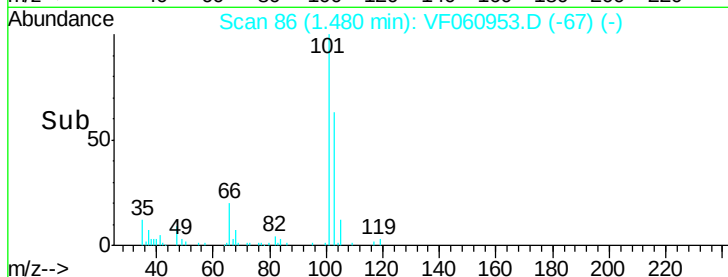
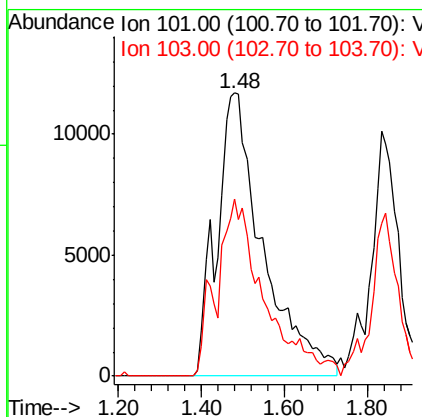
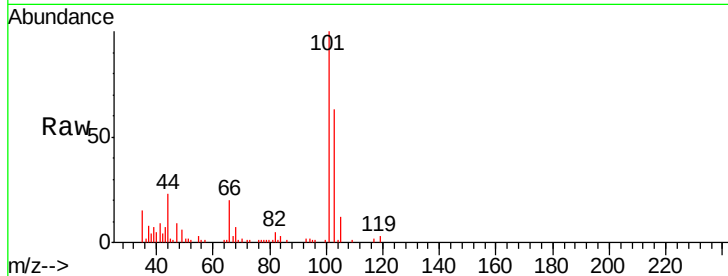
Trichlorofluoromethane
Concen: 24.010 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.02 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion:101 Resp: 90269
Ion Ratio Lower Upper
101 100
103 62.6 55.4 83.0

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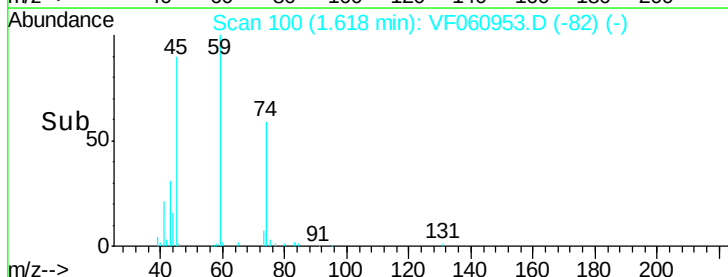
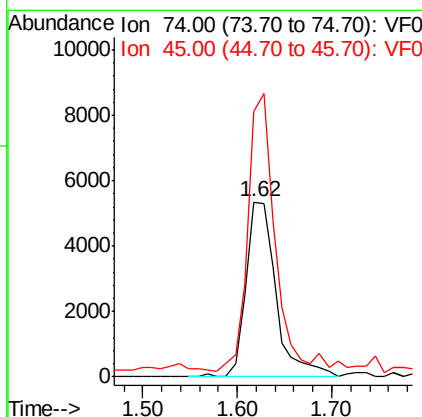
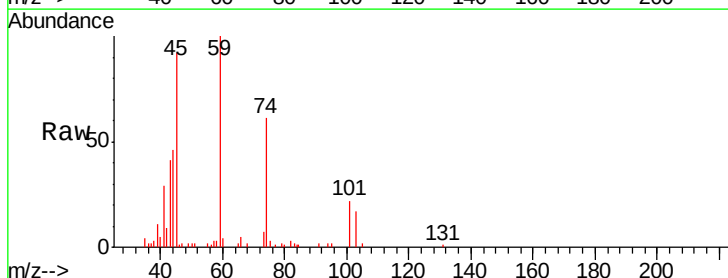
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12/11/2018 4:15:43 PM

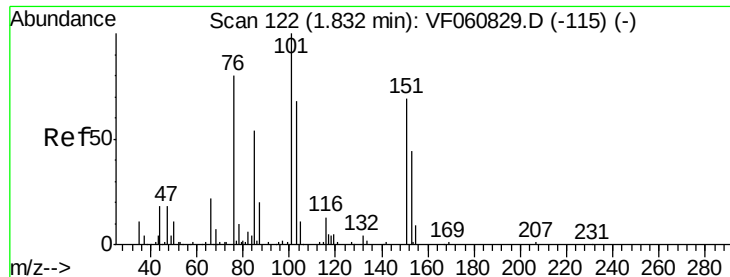


#8

Diethyl Ether
Concen: 21.893 ug/l
RT: 1.62 min Scan# 100
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion: 74 Resp: 11836
Ion Ratio Lower Upper
74 100
45 151.9 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.990 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

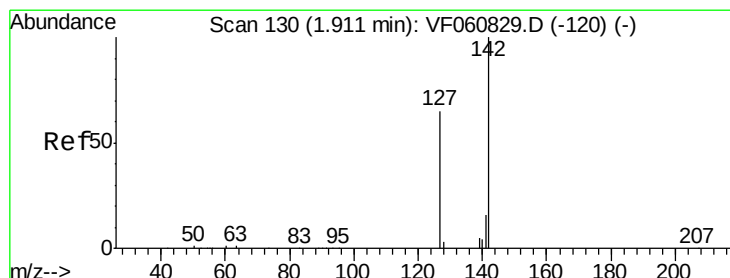
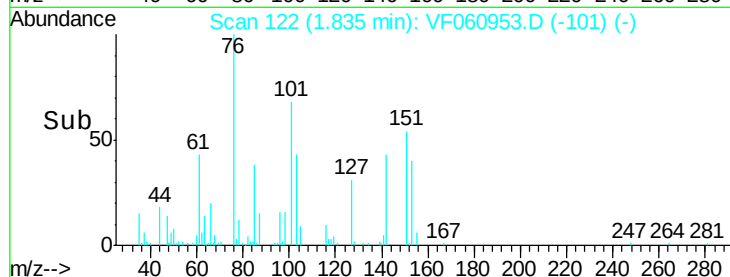
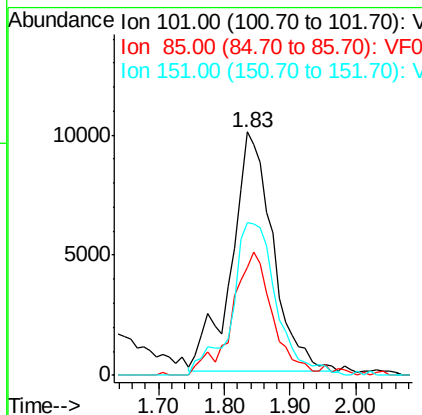
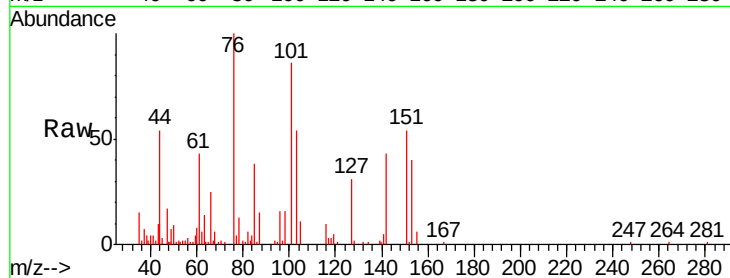
ClientSampleId :

VF1210SBS01

Tgt Ion:	101	Resp:	43697
Ion Ratio	Lower	Upper	
101	100		
85	44.3	42.8	64.2
151	62.6	54.4	81.6

Manual Integrations
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MMDadoda
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#10

Methyl Iodide

Concen: 23.492 ug/l m

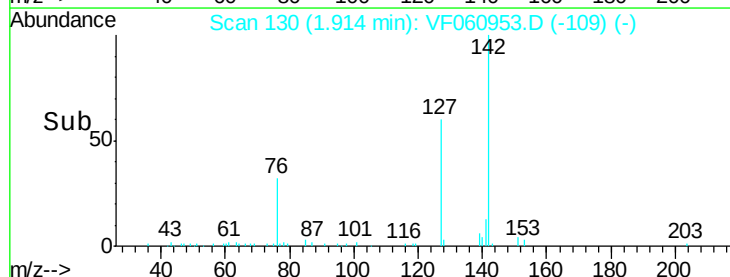
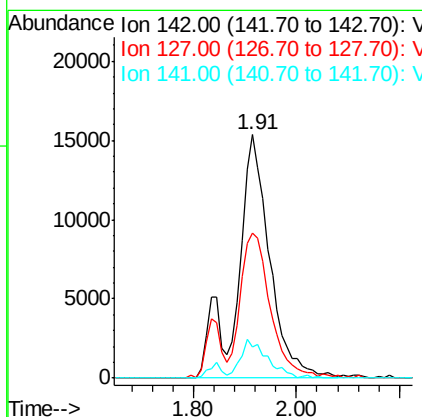
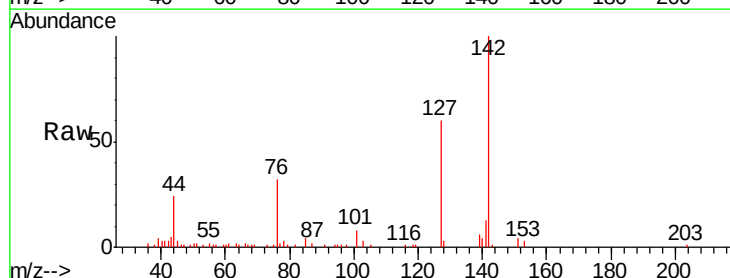
RT: 1.91 min Scan# 130

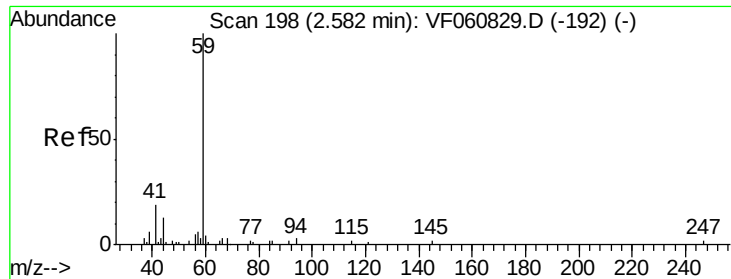
Delta R.T. 0.00 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	142	Resp:	67869
Ion Ratio	Lower	Upper	
142	100		
127	59.8	51.9	77.9
141	12.8	12.7	19.1





#11

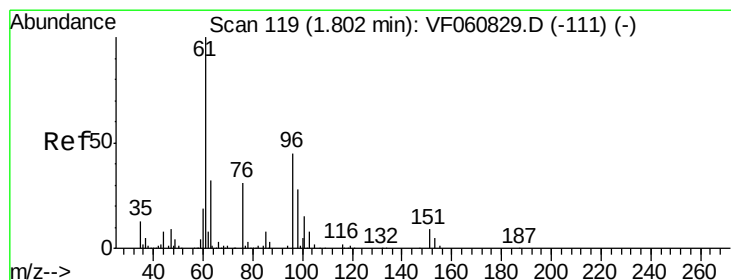
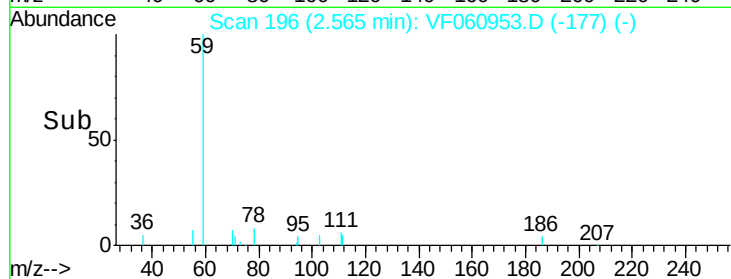
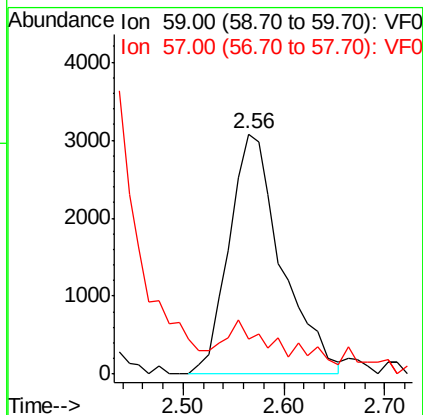
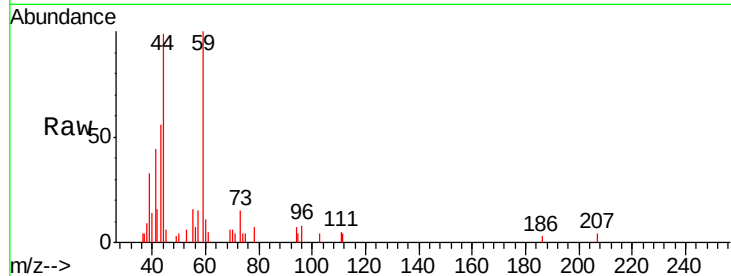
Tert butyl alcohol
Concen: 119.759 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	14.6	12.7	19.1

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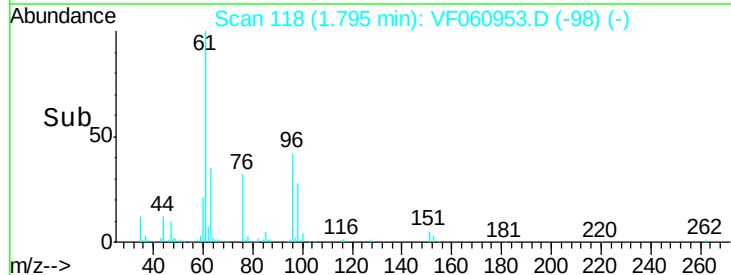
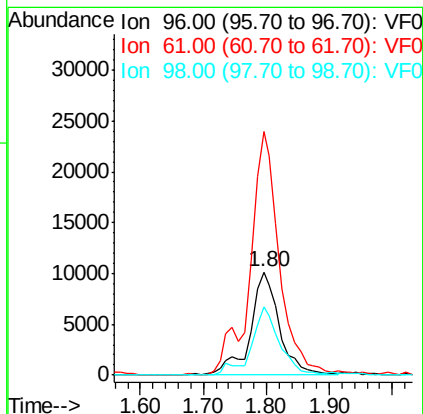
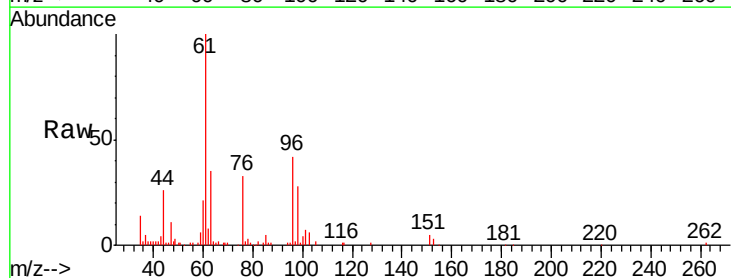
MMDadoda
12/11/2018 4:15:43 PM

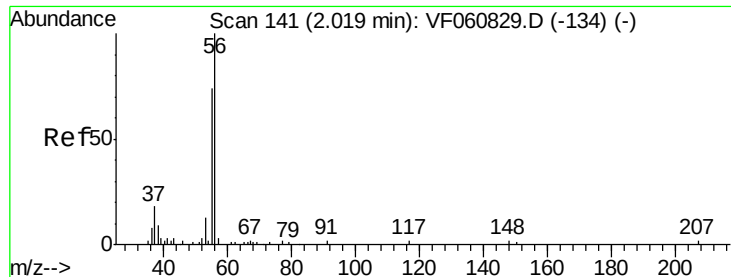


#12

1,1-Dichloroethene
Concen: 21.642 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	236.4	177.3	265.9
98	66.0	49.6	74.4





#13

Acrolein

Concen: 98.552 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 56 Resp: 8706

Ion Ratio Lower Upper

56 100

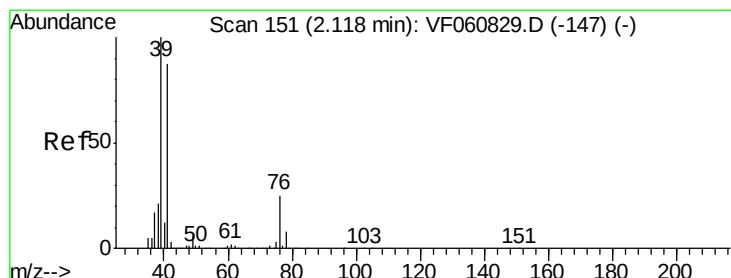
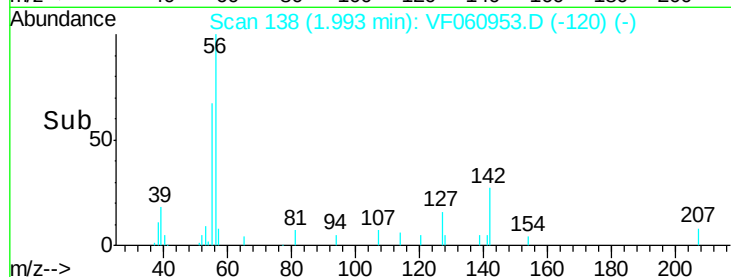
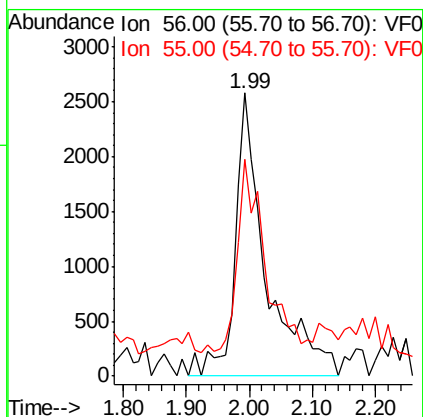
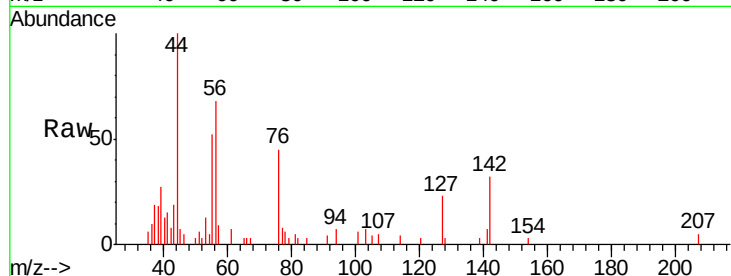
55 76.8 61.2 91.8

Manual Integrations

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#14

Allyl chloride

Concen: 21.184 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

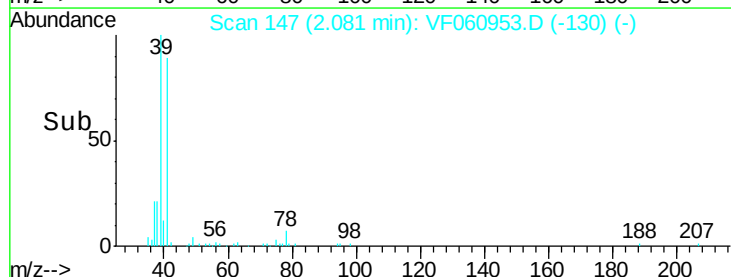
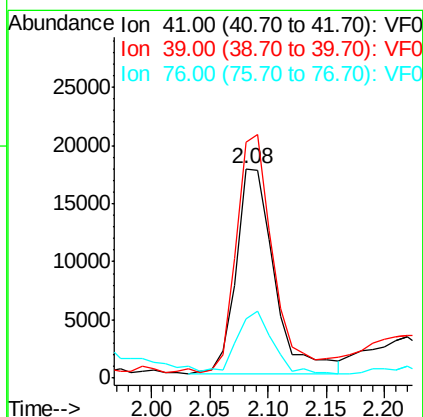
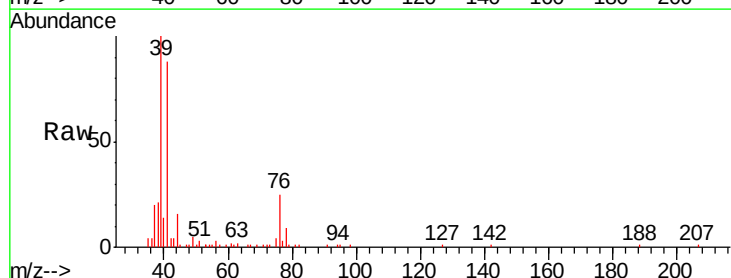
Tgt Ion: 41 Resp: 40365

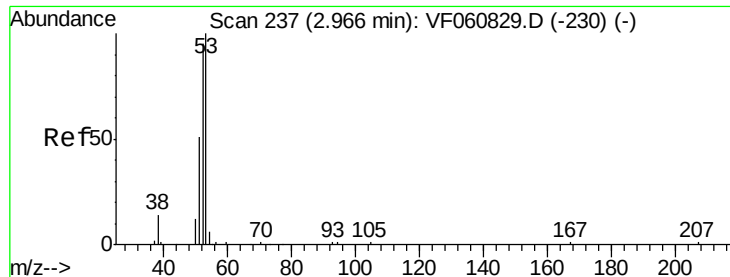
Ion Ratio Lower Upper

41 100

39 113.1 91.7 137.5

76 28.6 23.5 35.3





#15

Acrylonitrile

Concen: 130.703 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

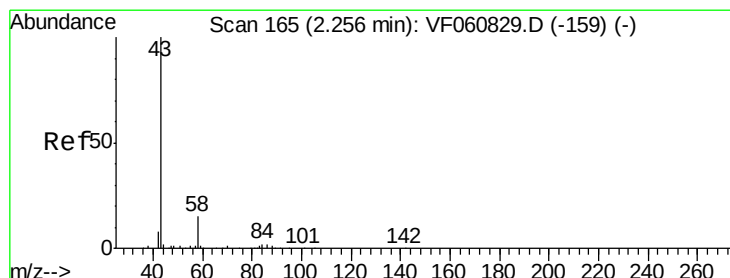
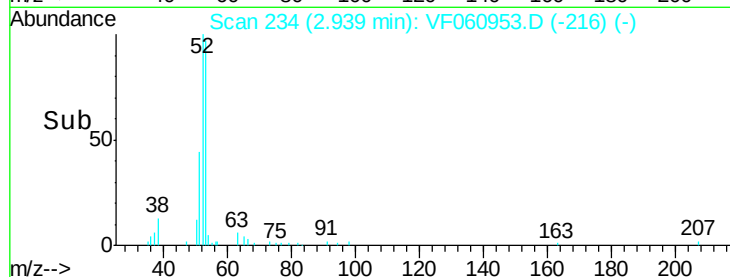
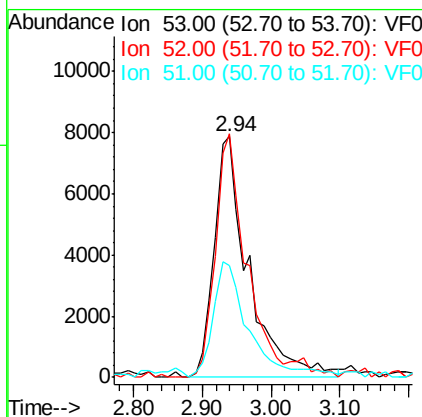
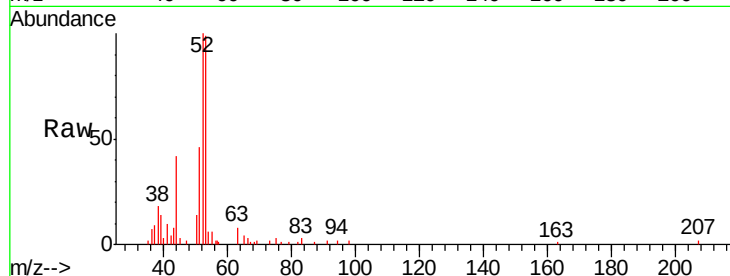
ClientSampleId :

VF1210SBS01

Tgt Ion:	53	Resp:	27321
Ion	Ratio	Lower	Upper
53	100		
52	101.1	76.5	114.7
51	46.6	40.7	61.1

Manual Integrations
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#16

Acetone

Concen: 125.830 ug/l

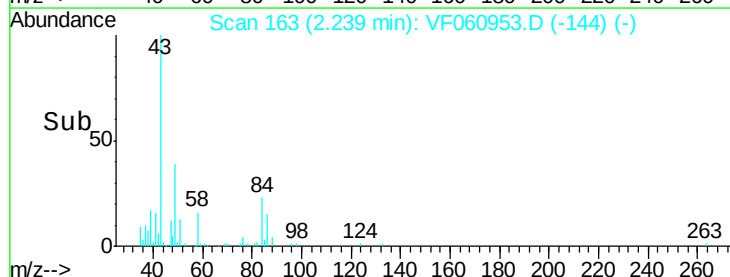
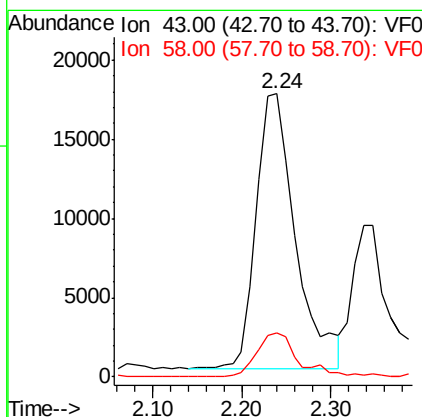
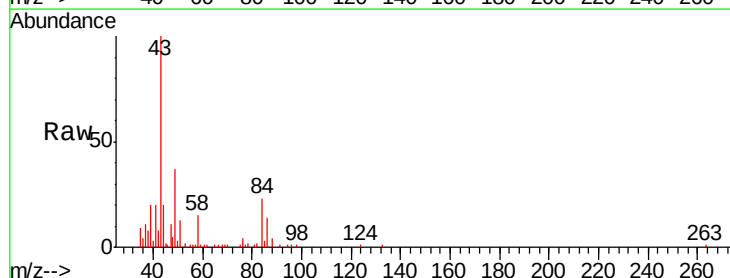
RT: 2.24 min Scan# 163

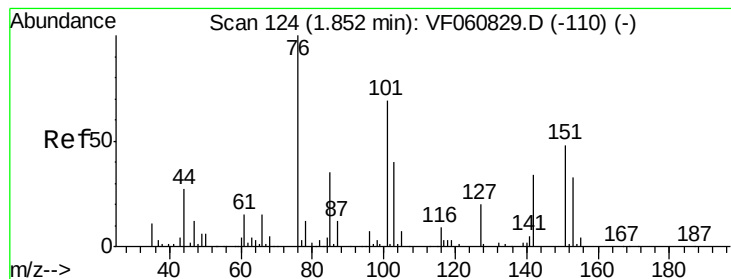
Delta R.T. -0.02 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	43	Resp:	52777
Ion	Ratio	Lower	Upper
43	100		
58	15.3	11.4	17.2





#17

Carbon Disulfide

Concen: 23.321 ug/l m

RT: 1.81 min Scan# 120

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion: 76 Resp: 95593

Ion Ratio Lower Upper

76 100

78 11.0 10.2 15.2

Instrument :

MSVOA_F

ClientSampleId :

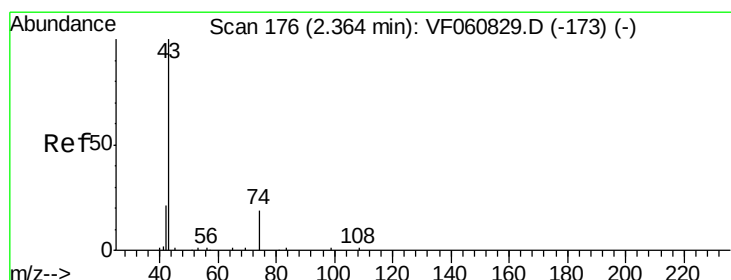
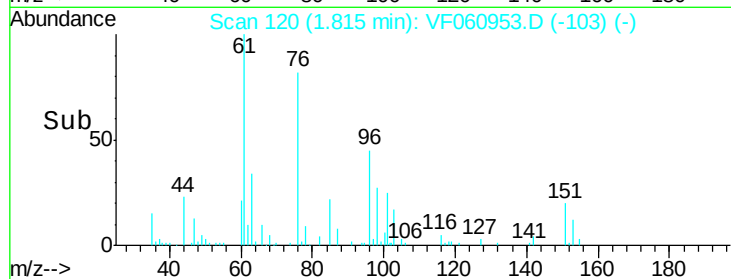
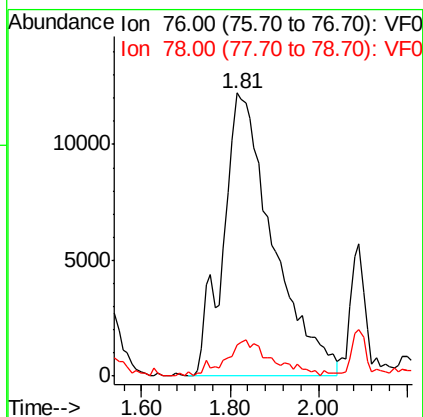
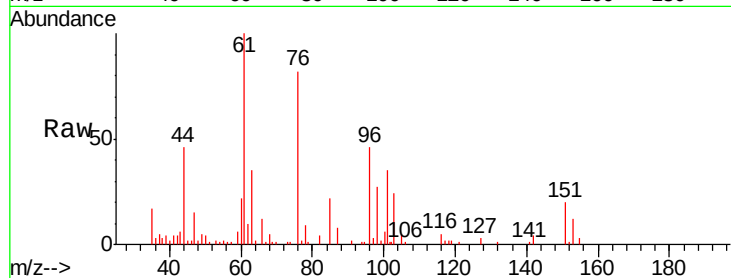
VF1210SBS01

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#18

Methyl Acetate

Concen: 29.645 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.03 min

Lab File: VF060953.D

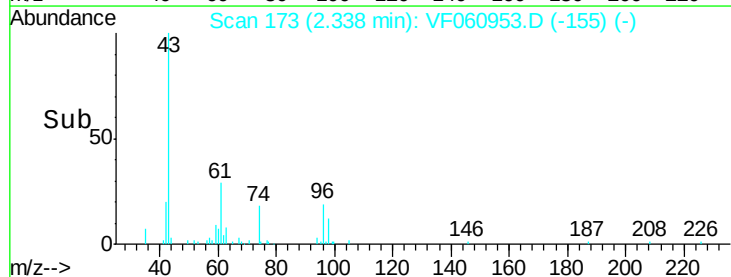
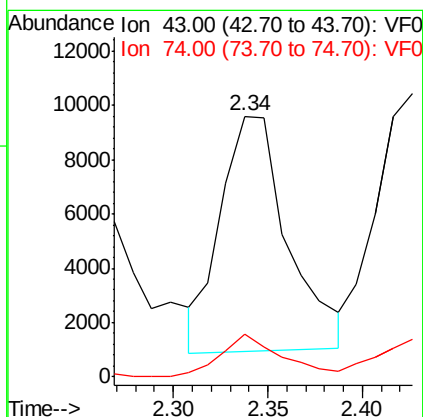
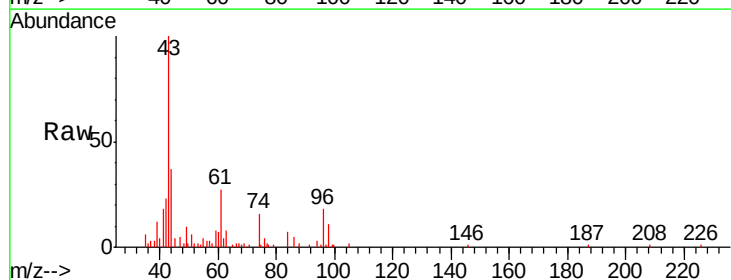
Acq: 10 Dec 2018 14:59

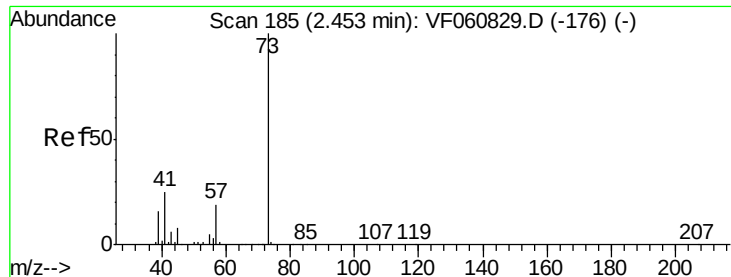
Tgt Ion: 43 Resp: 21333

Ion Ratio Lower Upper

43 100

74 16.5 13.3 19.9





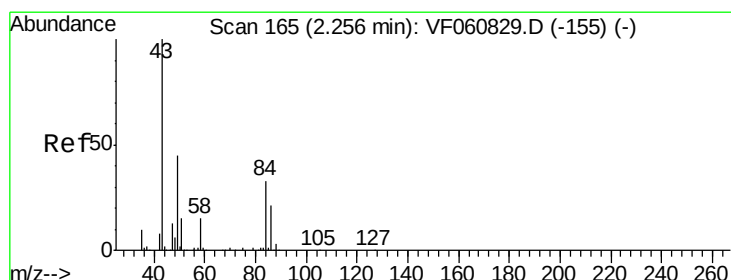
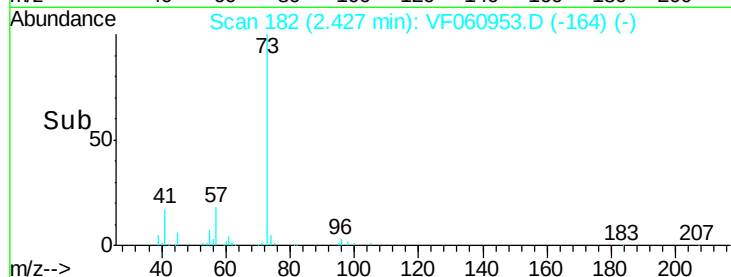
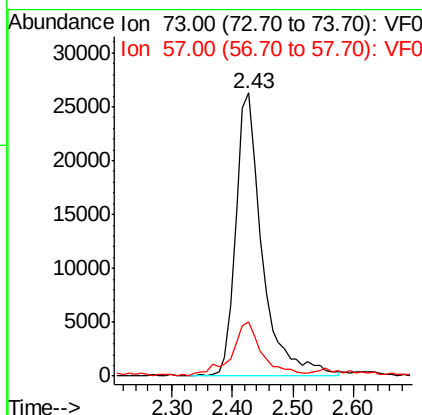
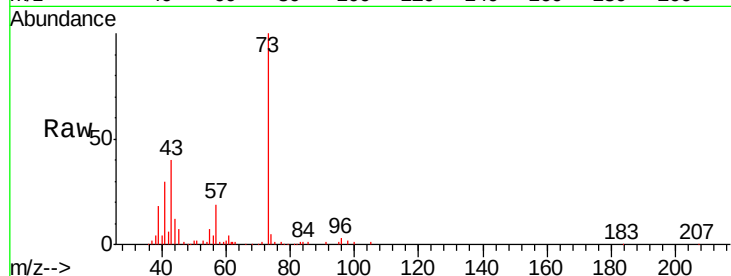
#19
Methyl tert-butyl Ether
Concen: 23.146 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion: 73 Resp: 79699
Ion Ratio Lower Upper
73 100
57 19.0 15.3 22.9

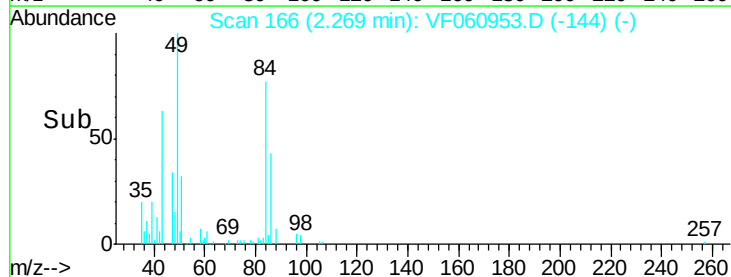
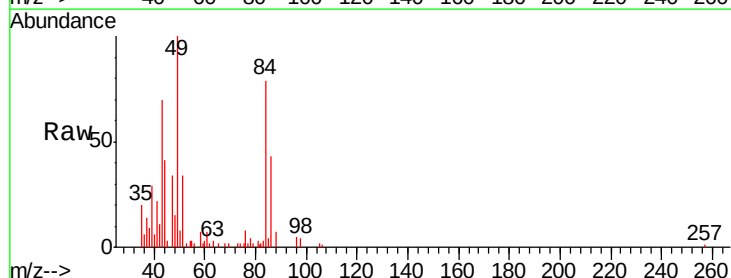
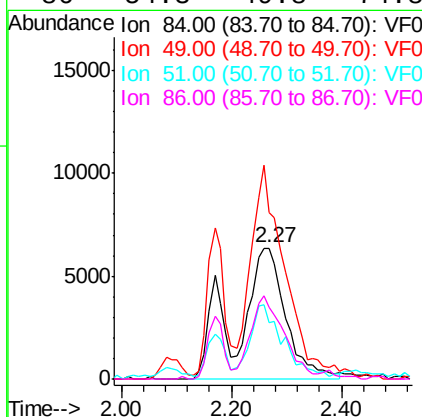
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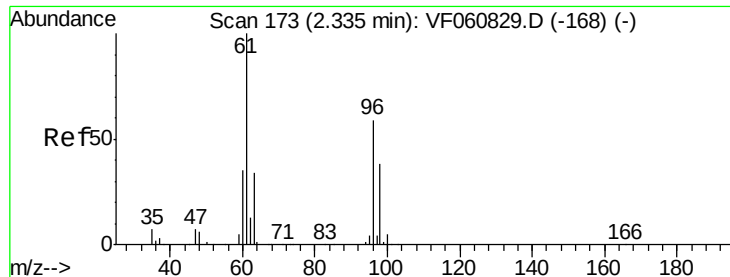
MMDadoda
12/11/2018 4:15:43 PM



#20
Methylene Chloride
Concen: 25.278 ug/l m
RT: 2.27 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion: 84 Resp: 38896
Ion Ratio Lower Upper
84 100
49 127.2 111.3 166.9
51 42.7 38.0 57.0
86 54.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 23.268 ug/l m

RT: 2.30 min Scan# 169

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

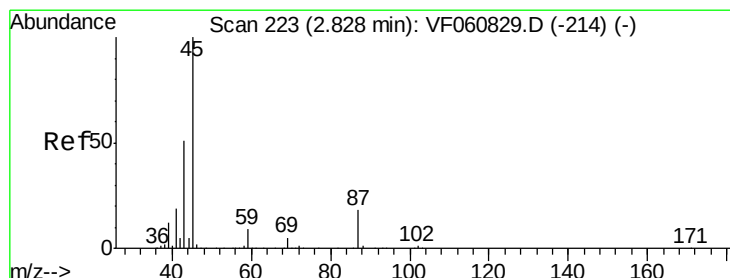
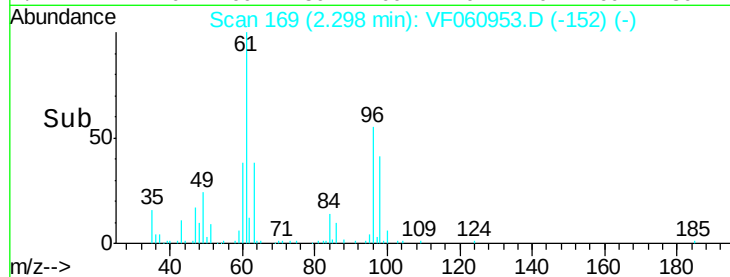
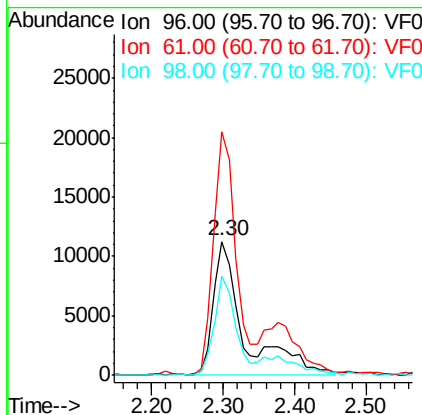
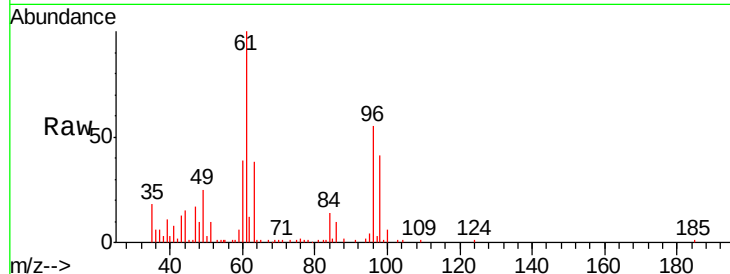
ClientSampleId :

VF1210SBS01

Tgt Ion:	96	Resp:	34294
Ion	Ratio	Lower	Upper
96	100		
61	181.8	134.5	201.7
98	73.7	51.6	77.4

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#22

Diisopropyl ether

Concen: 22.981 ug/l

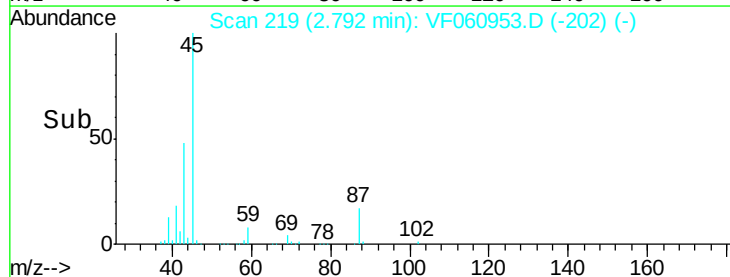
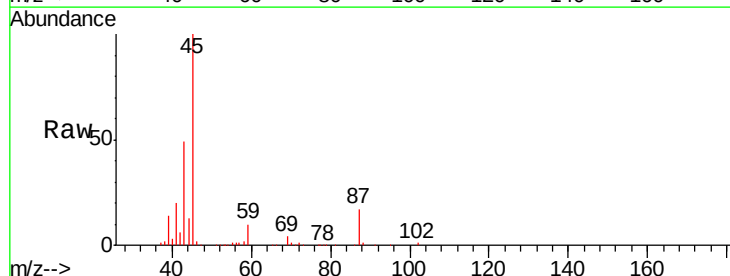
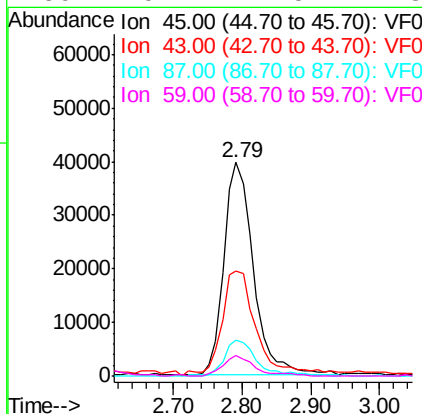
RT: 2.79 min Scan# 219

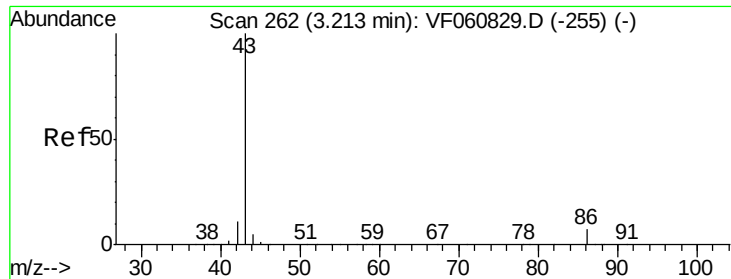
Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	45	Resp:	119194
Ion	Ratio	Lower	Upper
45	100		
43	49.3	41.0	61.6
87	16.6	14.6	22.0
59	9.7	7.5	11.3





#23

Vinyl Acetate

Concen: 128.969 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBSD01

Tgt Ion: 43 Resp: 305774

Ion Ratio Lower Upper

43 100

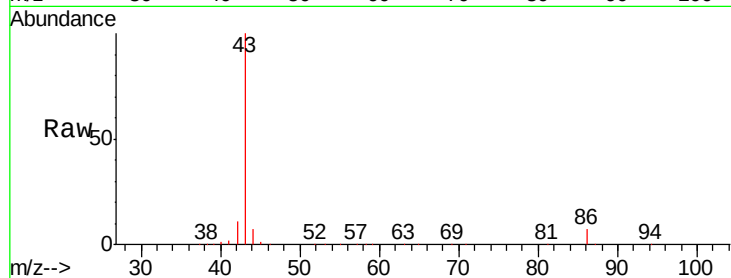
86 6.7 5.4 8.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

120000

100000

80000

60000

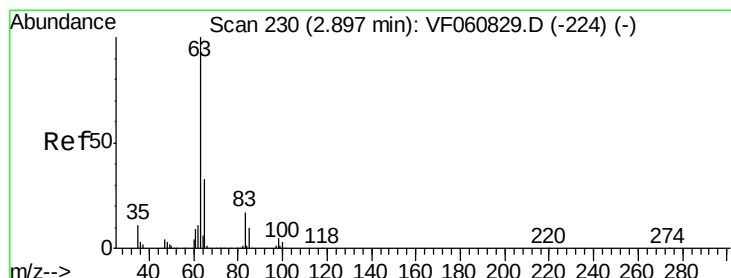
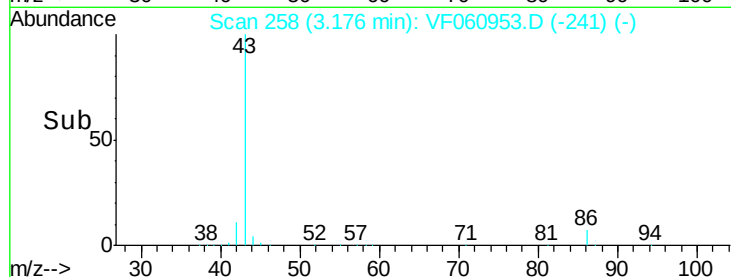
40000

20000

0

3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 24.089 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

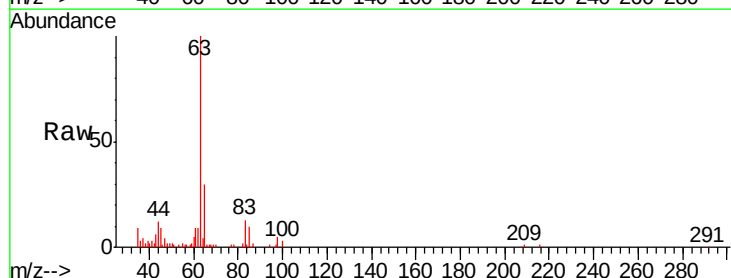
Tgt Ion: 63 Resp: 74337

Ion Ratio Lower Upper

63 100

98 5.3 2.7 8.1

100 3.3 1.5 4.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

30000

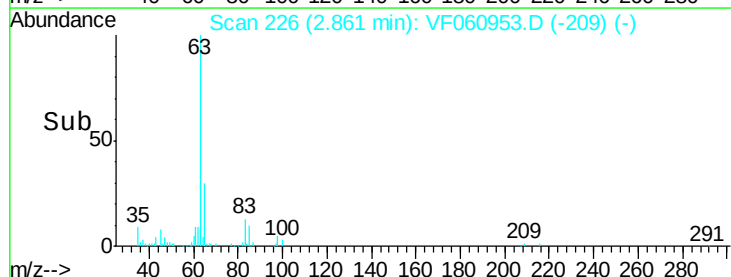
20000

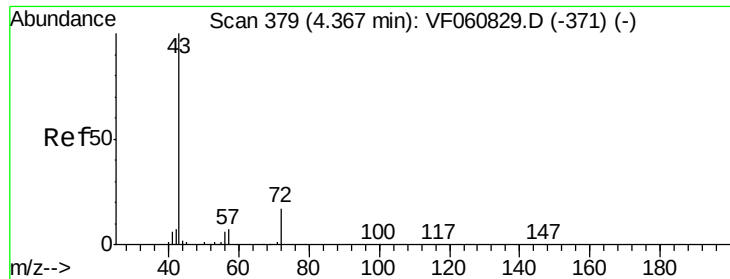
10000

0

2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 130.665 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 43 Resp: 94793

Ion Ratio Lower Upper

43 100

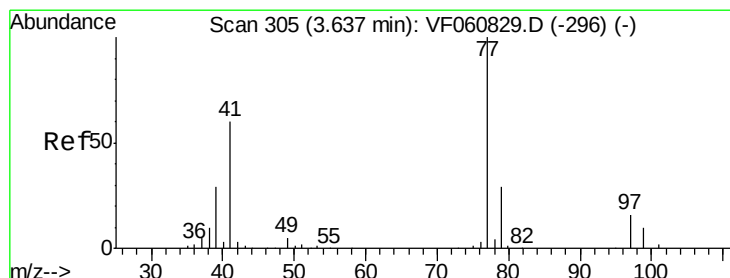
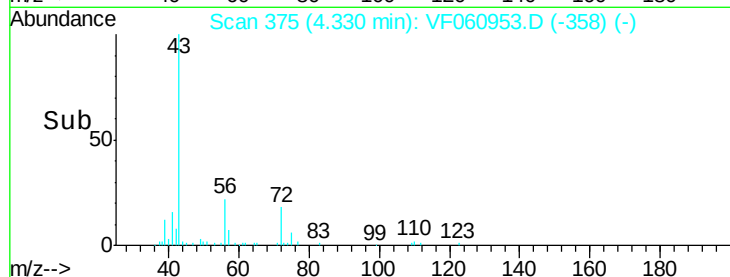
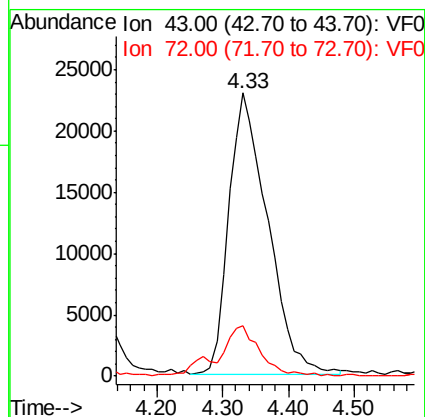
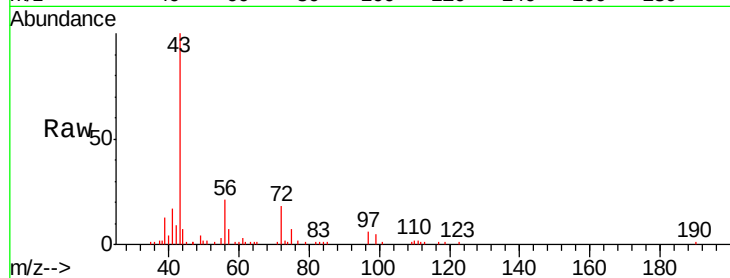
72 17.8 15.4 23.2

Manual Integrations

APPROVED

MMDadoda

12/11/2018 4:15:43 PM



#26

2,2-Dichloropropane

Concen: 21.729 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.05 min

Lab File: VF060953.D

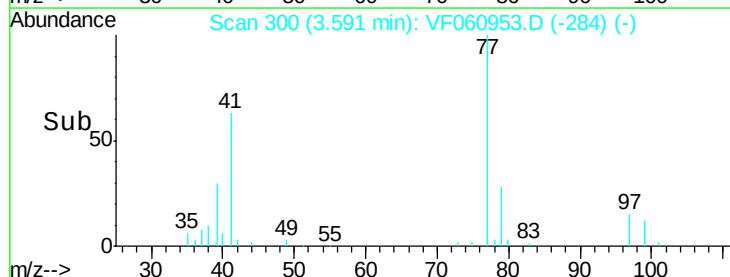
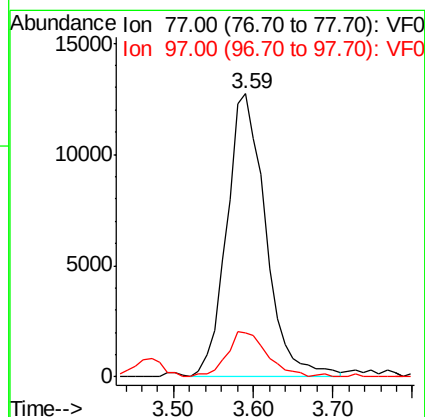
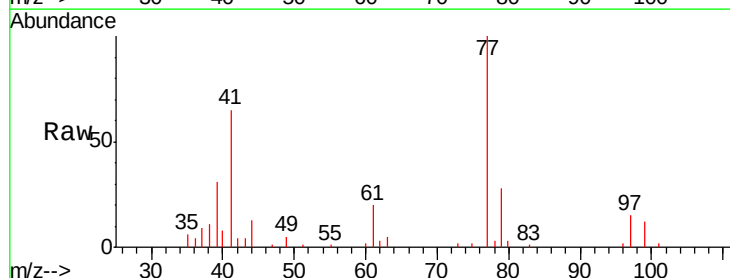
Acq: 10 Dec 2018 14:59

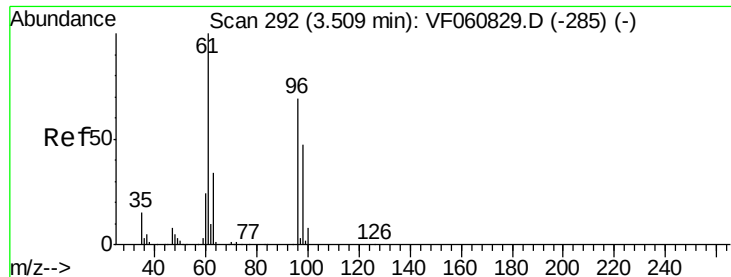
Tgt Ion: 77 Resp: 43471

Ion Ratio Lower Upper

77 100

97 15.4 8.6 25.8





#27

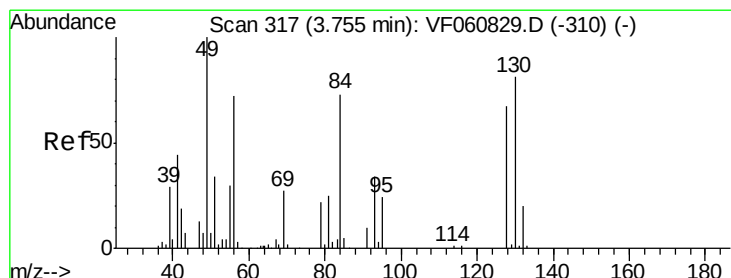
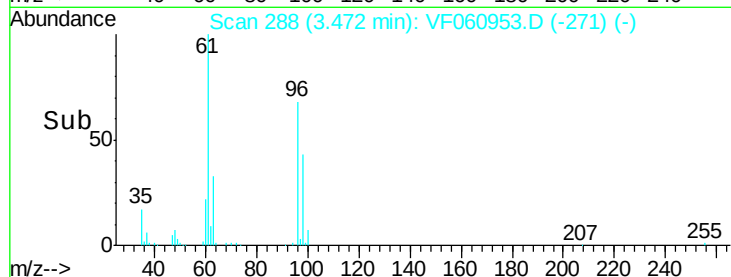
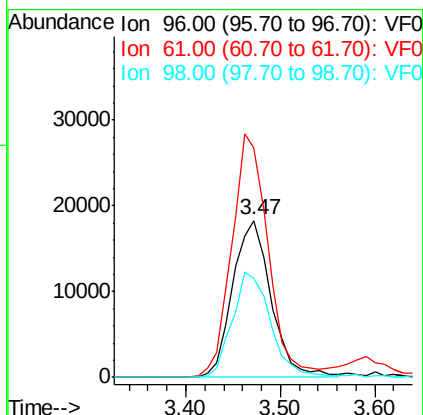
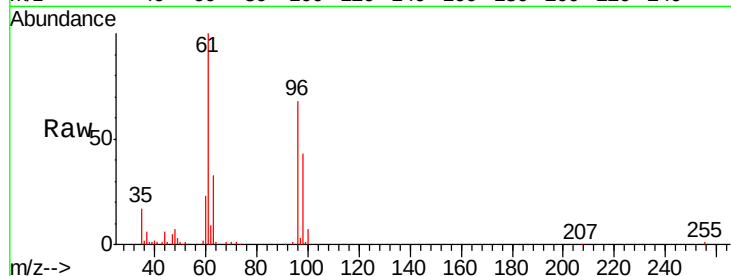
cis-1,2-Dichloroethene
Concen: 21.524 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	51646		
61	146.9	0.0	290.6	
98	62.9	0.0	137.8	

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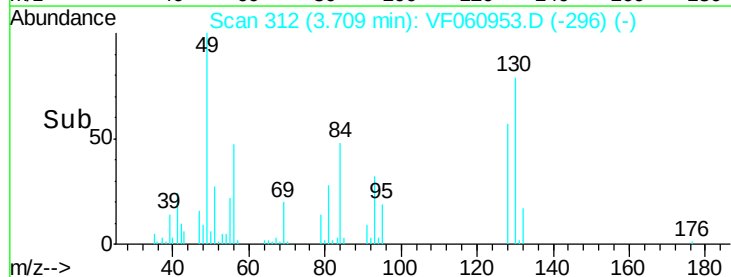
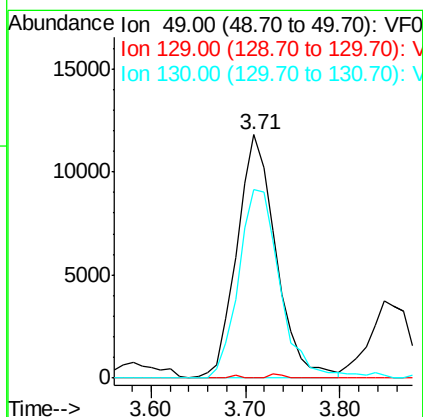
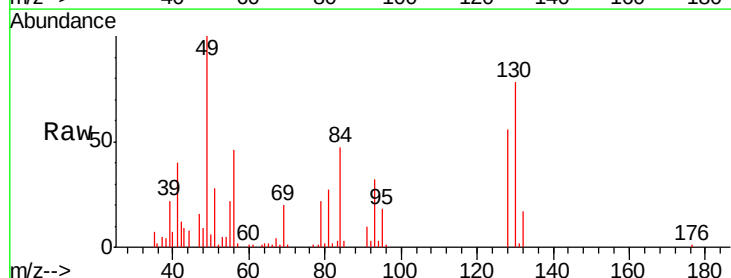
MMDadoda
12/11/2018 4:15:43 PM

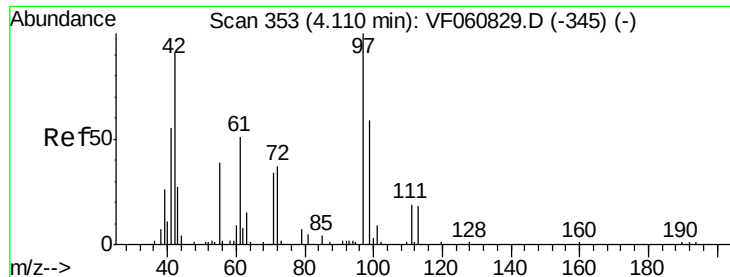


#28

Bromochloromethane
Concen: 22.891 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	33902		
129	0.0	0.0	4.4	
130	77.7	64.2	96.4	





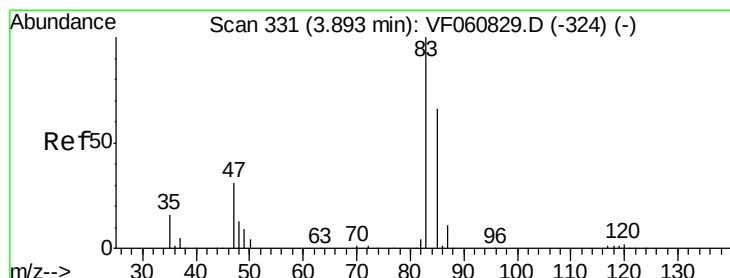
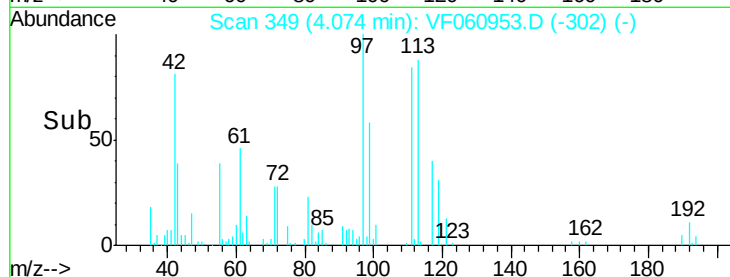
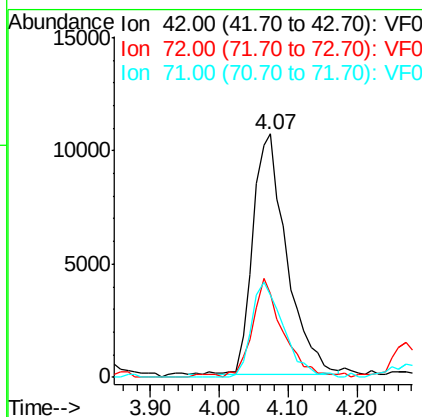
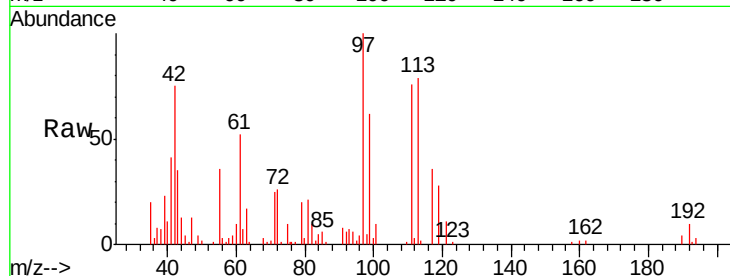
#29
Tetrahydrofuran
Concen: 118.121 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBSD01

Tgt Ion:	42	Resp:	36324
Ion	Ratio	Lower	Upper
42	100		
72	37.1	31.9	47.9
71	37.5	28.7	43.1

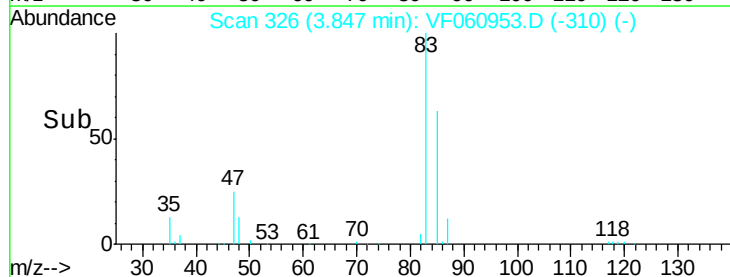
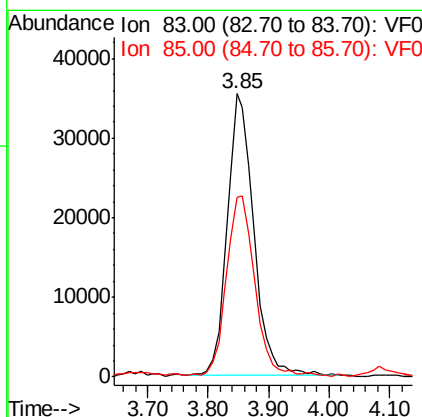
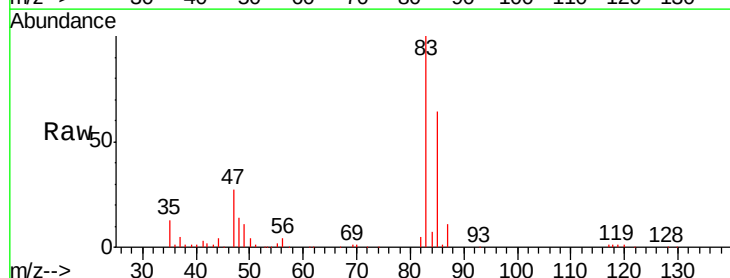
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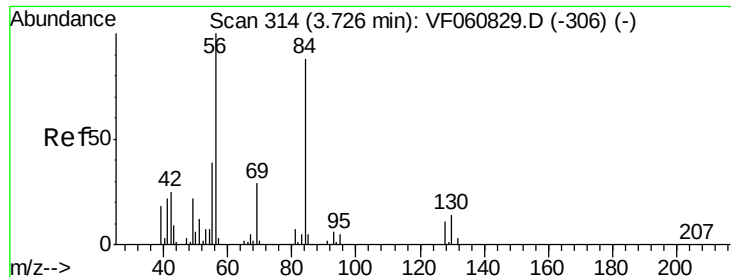
MMDadoda
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#30
Chloroform
Concen: 22.605 ug/l
RT: 3.85 min Scan# 326
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion:	83	Resp:	107359
Ion	Ratio	Lower	Upper
83	100		
85	63.6	53.4	80.2





#31

Cyclohexane

Concen: 22.758 ug/l m

RT: 3.68 min Scan# 309

Delta R.T. -0.05 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

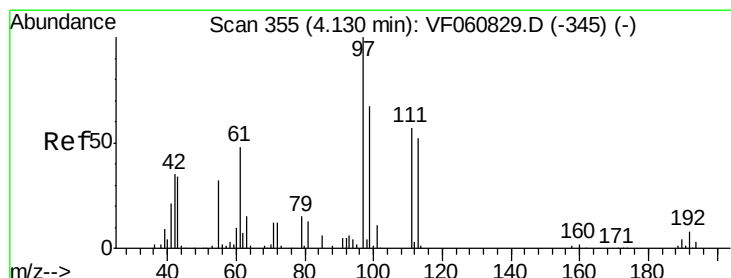
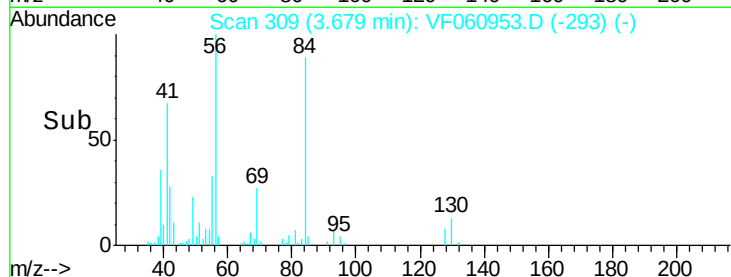
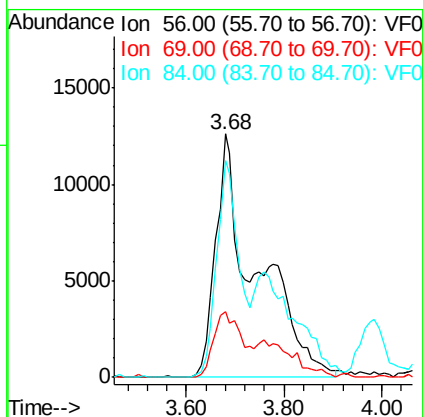
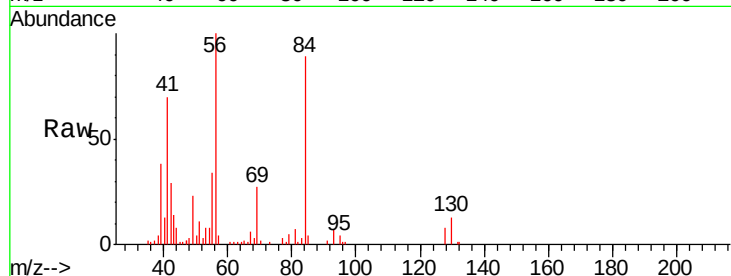
ClientSampleId :

VF1210SBS01

Tgt Ion:	56	Resp:	72886
Ion	Ratio	Lower	Upper
56	100		
69	26.9	23.0	34.4
84	88.9	70.4	105.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 18.867 ug/l

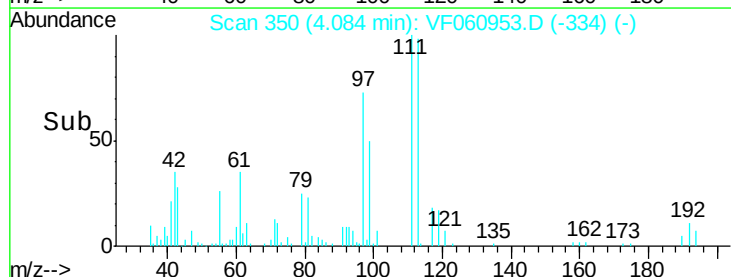
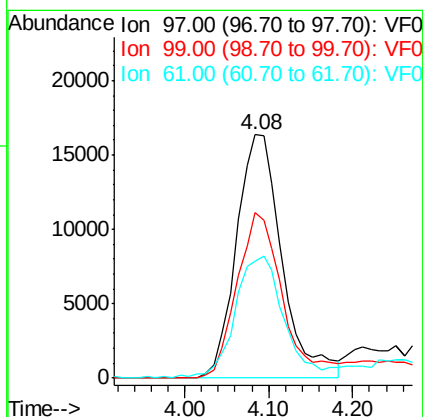
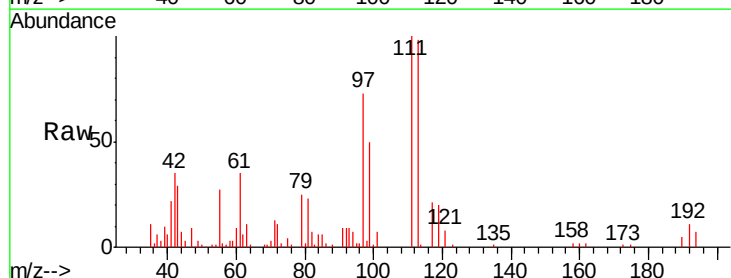
RT: 4.08 min Scan# 350

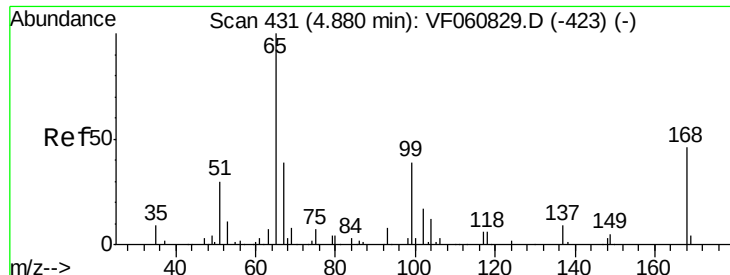
Delta R.T. -0.05 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	97	Resp:	62145
Ion	Ratio	Lower	Upper
97	100		
99	67.9	53.5	80.3
61	48.2	38.6	58.0





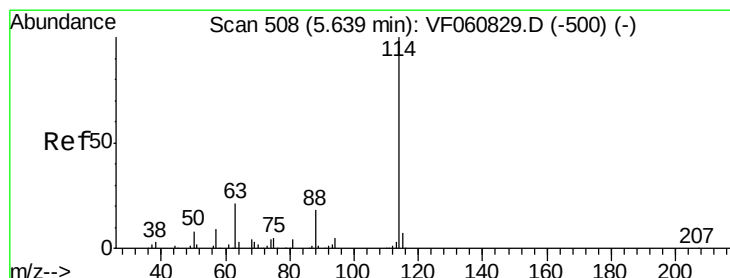
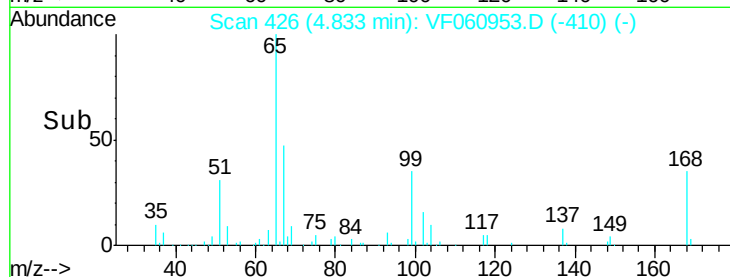
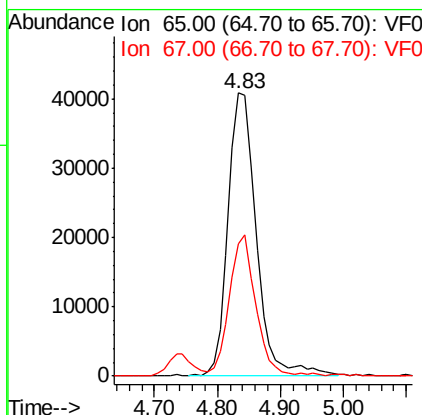
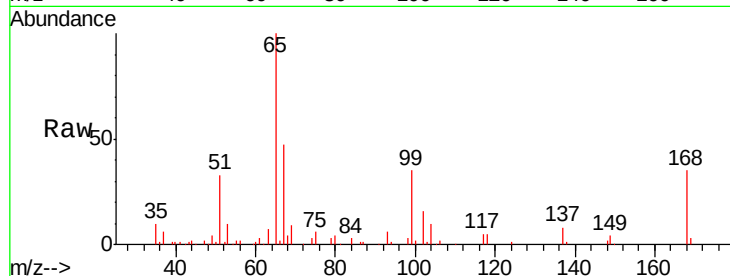
#33
 1,2-Dichloroethane-d4
 Concen: 55.186 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.05 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	125520		
67	46.7	0.0	96.4	

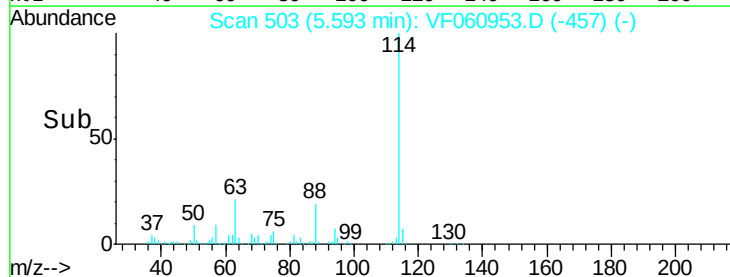
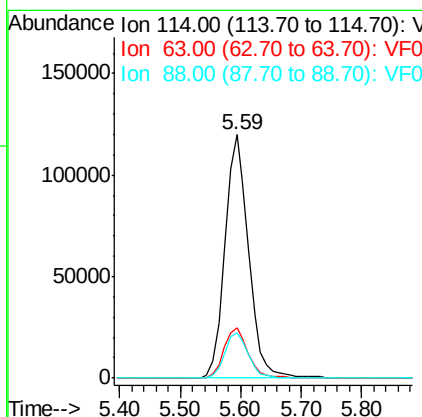
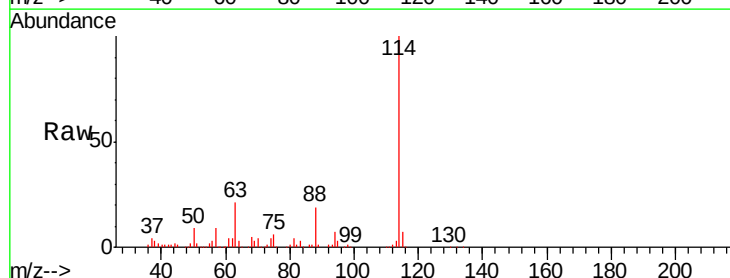
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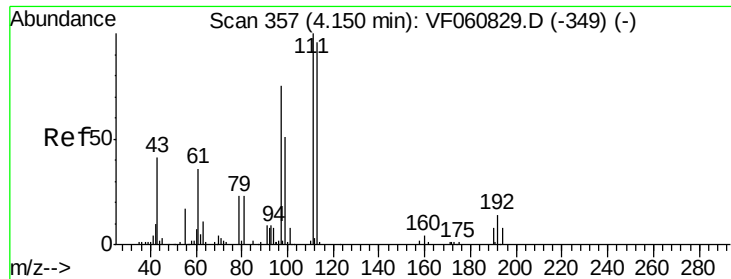
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.05 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	323773		
63	20.7	0.0	41.6	
88	18.6	0.0	36.6	





#35

Dibromofluoromethane

Concen: 50.398 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

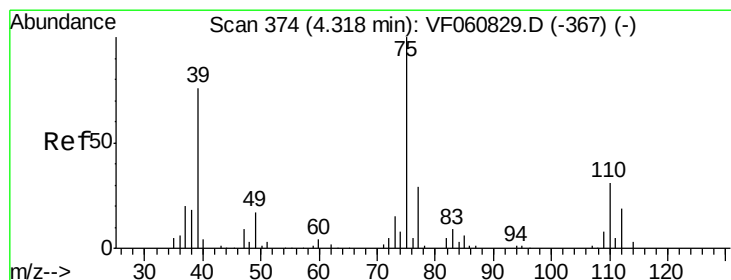
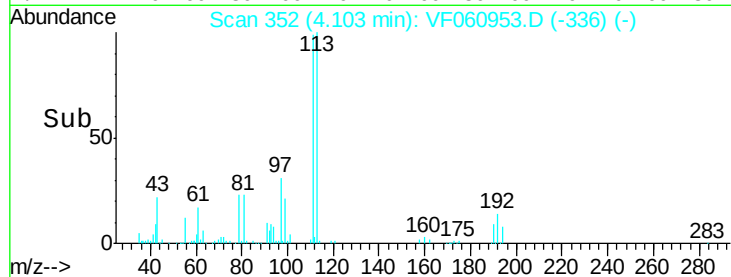
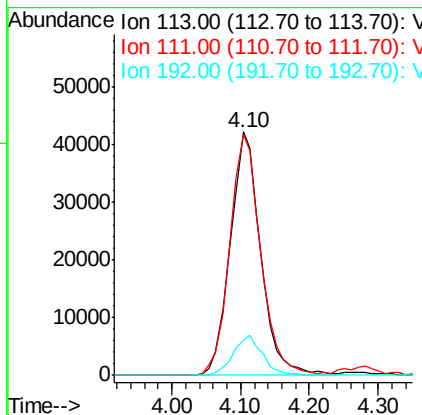
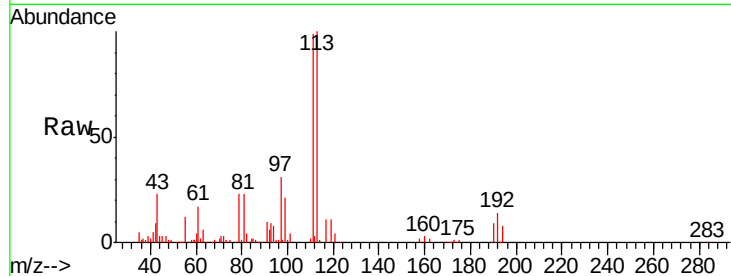
ClientSampleId :

VF1210SBS01

Tgt Ion:	113	Resp:	129451
Ion Ratio	Lower	Upper	
113	100		
111	99.3	83.0	124.6
192	14.3	12.3	18.5

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 22.869 ug/l

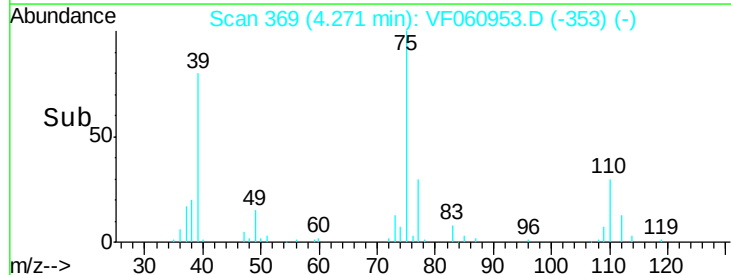
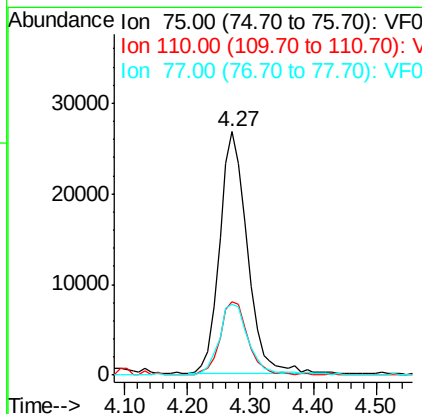
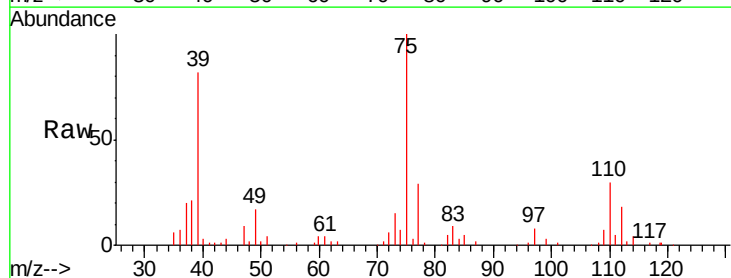
RT: 4.27 min Scan# 369

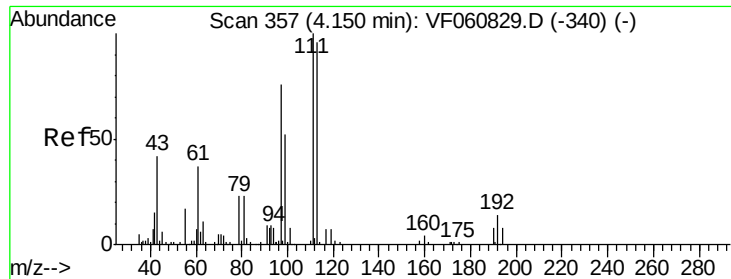
Delta R.T. -0.05 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	75	Resp:	82127
Ion Ratio	Lower	Upper	
75	100		
110	29.9	15.6	46.8
77	29.0	23.4	35.0





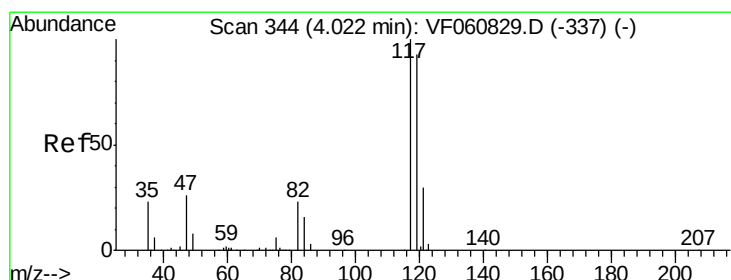
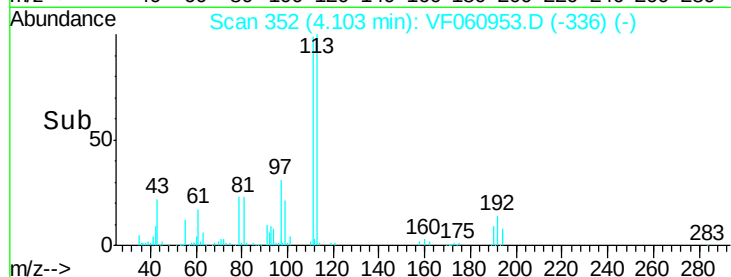
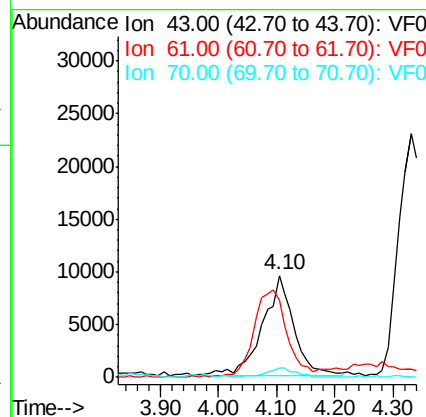
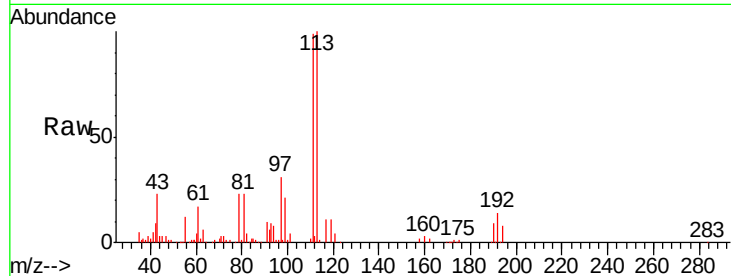
#37
Ethyl Acetate
Concen: 24.827 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	75.6	68.6	103.0
70	9.6	9.0	13.4

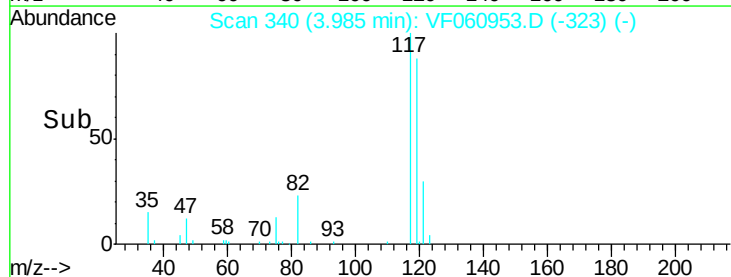
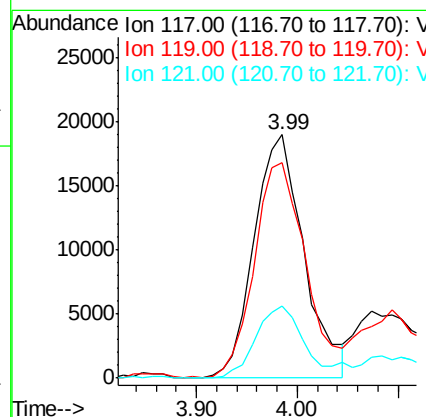
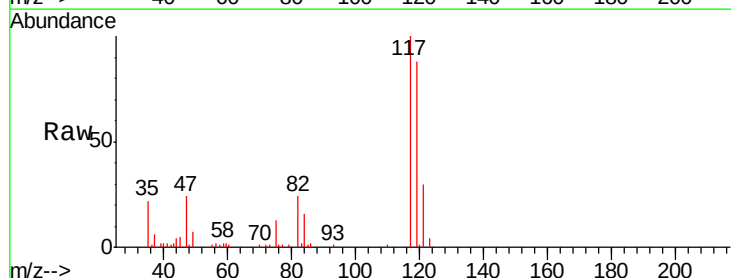
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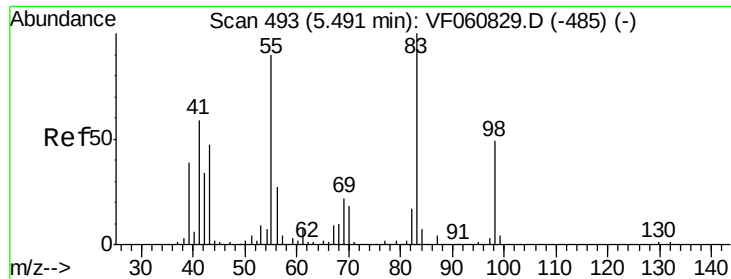
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#38
Carbon Tetrachloride
Concen: 20.644 ug/l
RT: 3.99 min Scan# 340
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.4	74.4	111.6
121	29.7	23.5	35.3





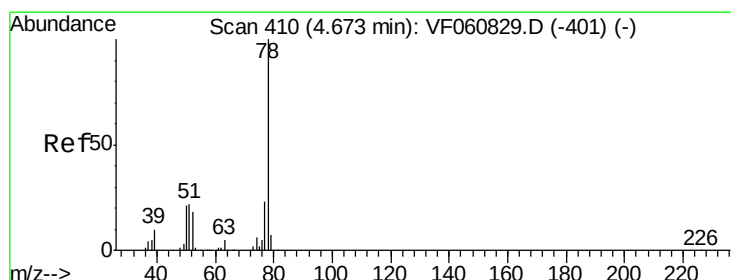
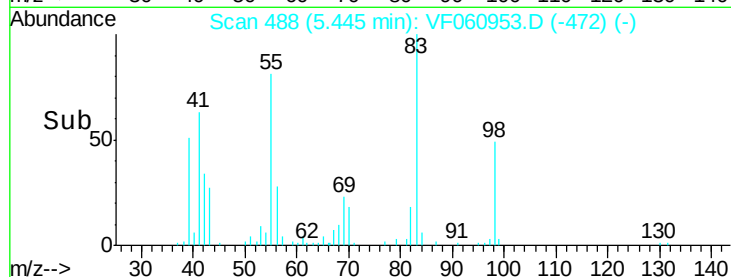
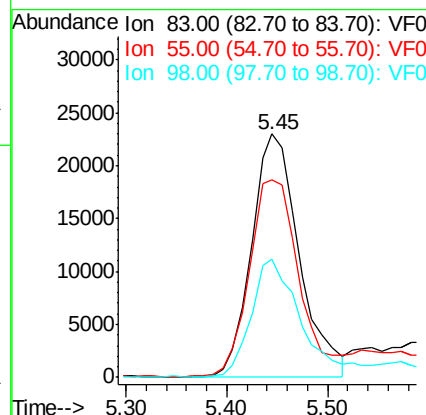
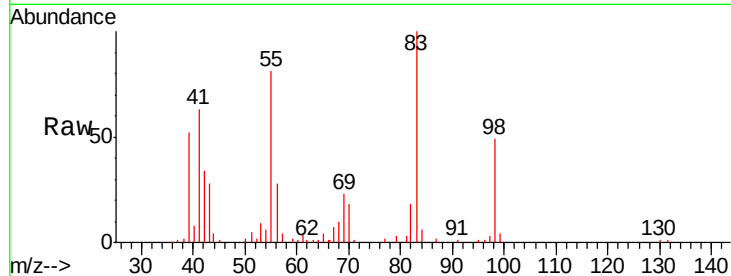
#39
Methylcyclohexane
Concen: 20.127 ug/l
RT: 5.45 min Scan# 488
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	80.9	72.1	108.1
98	48.8	39.1	58.7

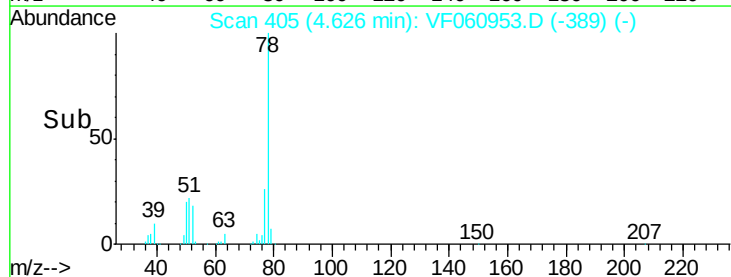
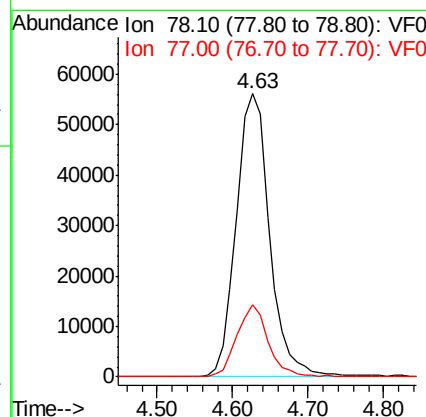
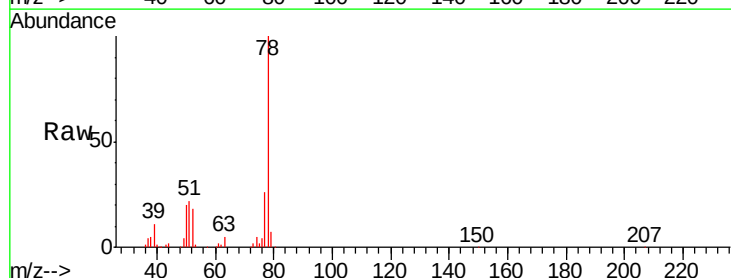
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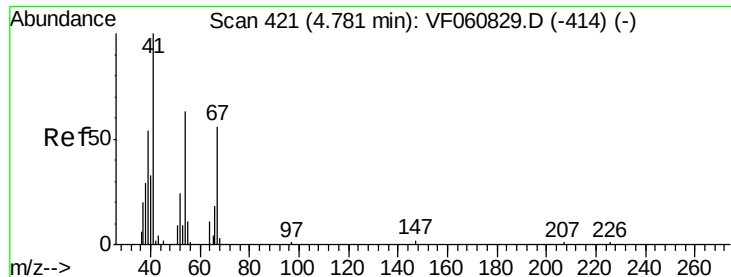
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#40
Benzene
Concen: 21.564 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.5	18.7	28.1





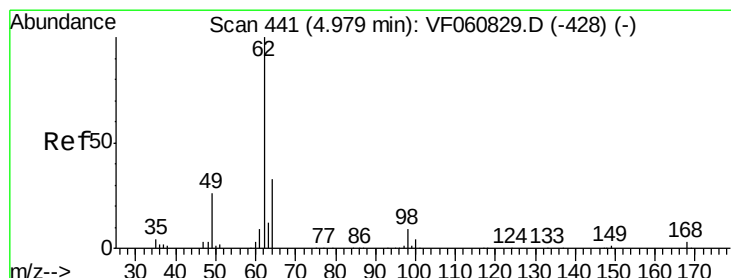
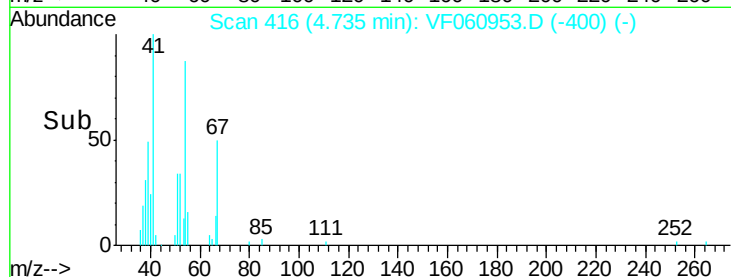
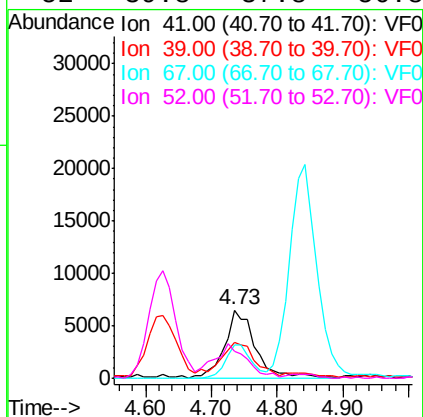
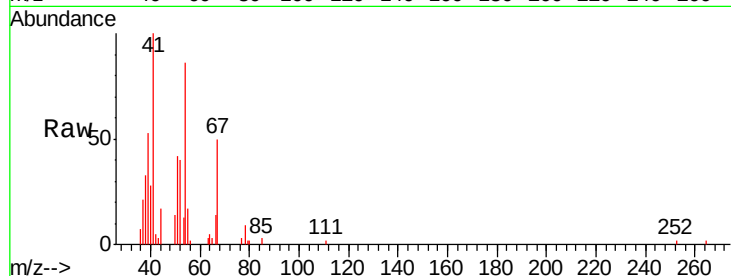
#41
Methacrylonitrile
Concen: 26.288 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBSD01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	52.7	53.0	79.6#
67	49.6	43.8	65.6
52	39.8	37.8	56.8

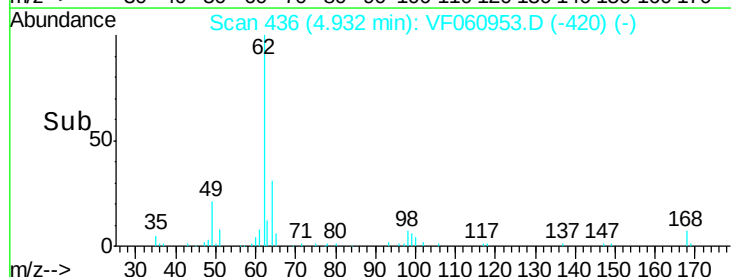
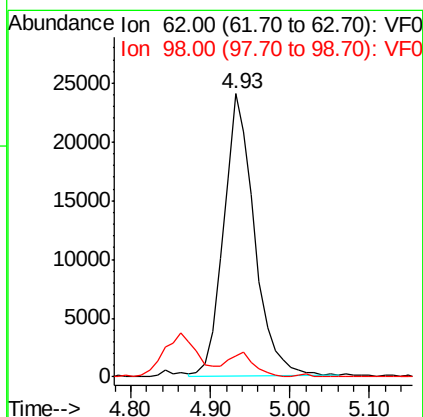
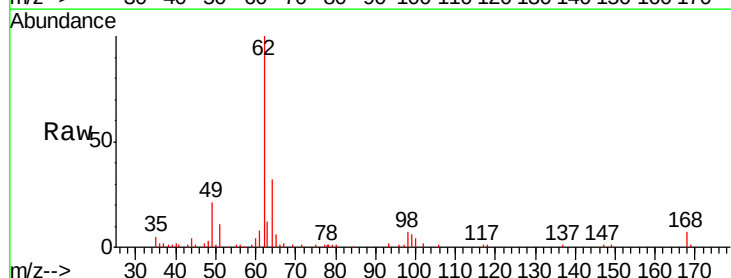
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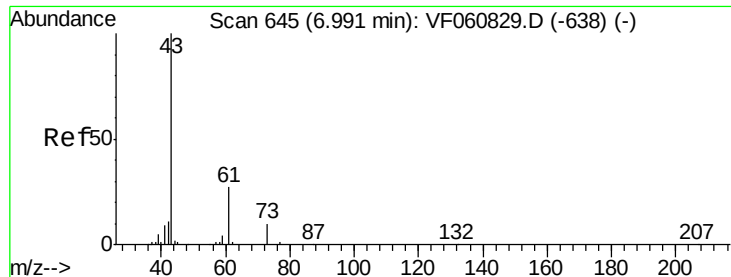
MMDadoda
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#42
1,2-Dichloroethane
Concen: 22.462 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	17.2





#43

Isopropyl Acetate

Concen: 21.628 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

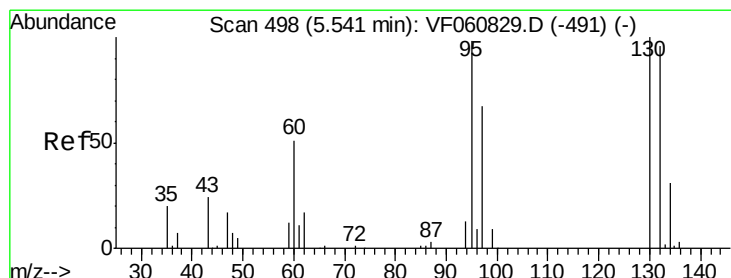
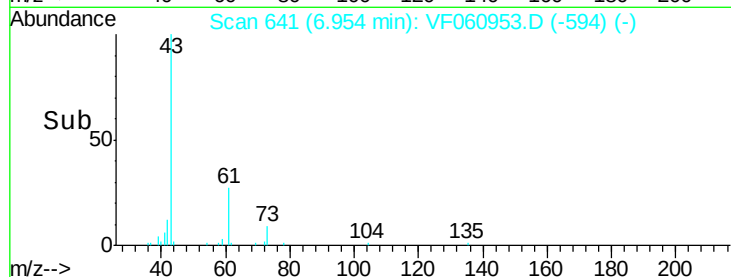
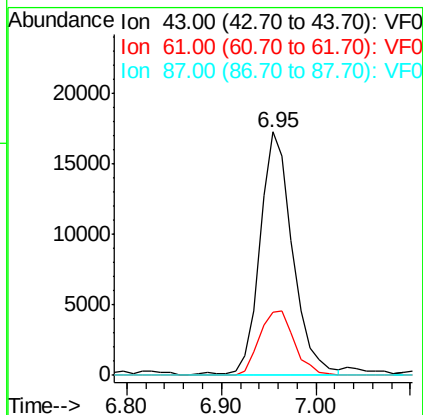
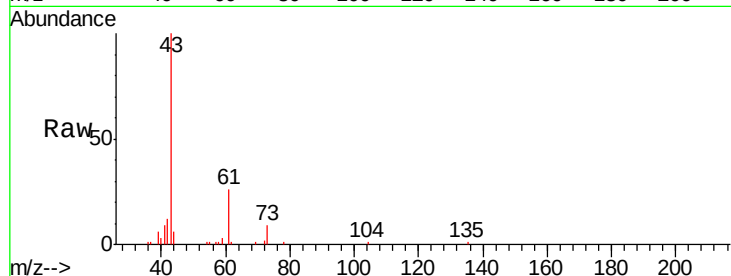
ClientSampleId :

VF1210SBS01

Tgt Ion:	43	Resp:	41721
Ion	Ratio	Lower	Upper
43	100		
61	25.8	21.4	32.0
87	0.0	0.2	0.4#

Manual Integrations
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#44

Trichloroethene

Concen: 22.267 ug/l

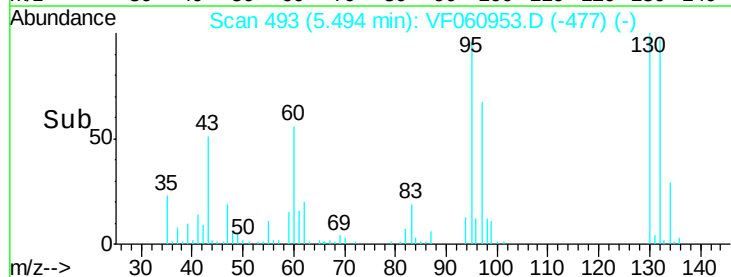
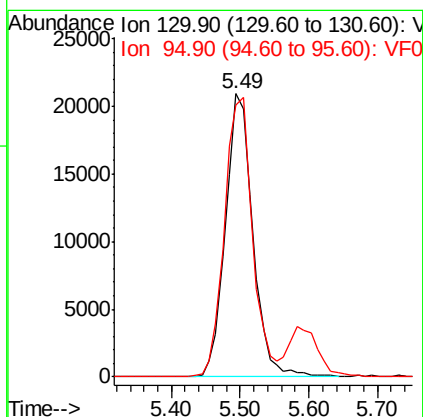
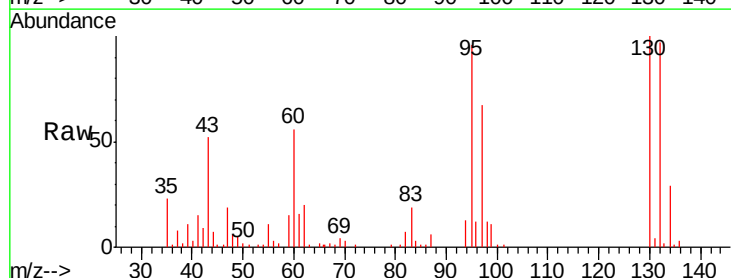
RT: 5.49 min Scan# 493

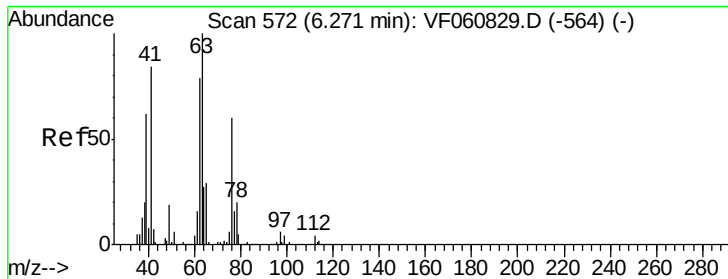
Delta R.T. -0.05 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	130	Resp:	57762
Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	195.6





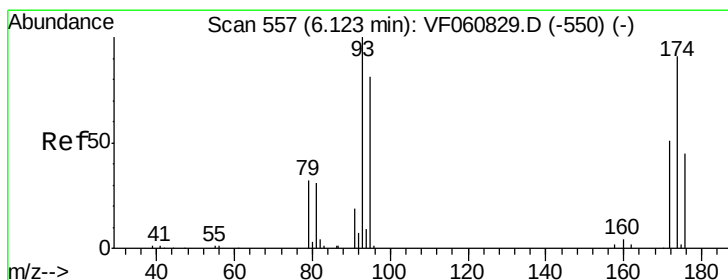
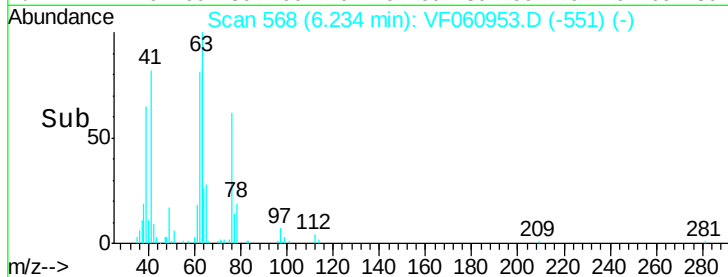
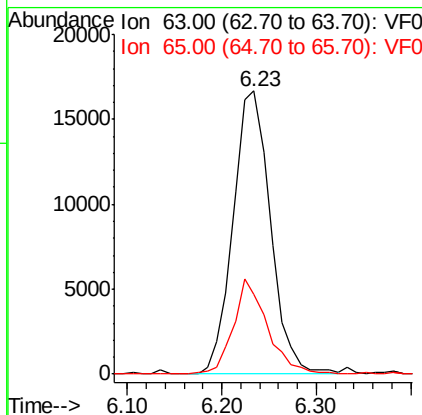
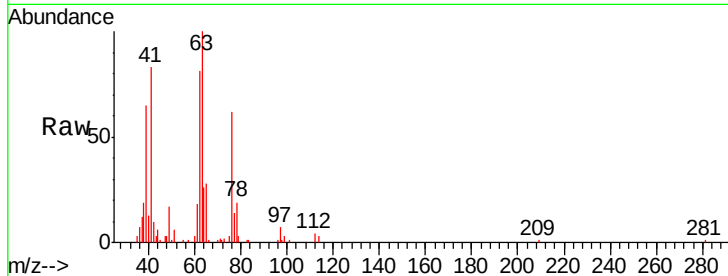
#45
 1,2-Dichloropropane
 Concen: 22.257 ug/l
 RT: 6.23 min Scan# 568
 Delta R.T. -0.04 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion: 63 Resp: 45860
 Ion Ratio Lower Upper
 63 100
 65 28.2 23.2 34.8

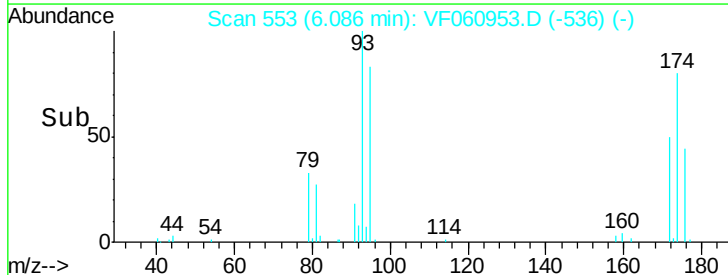
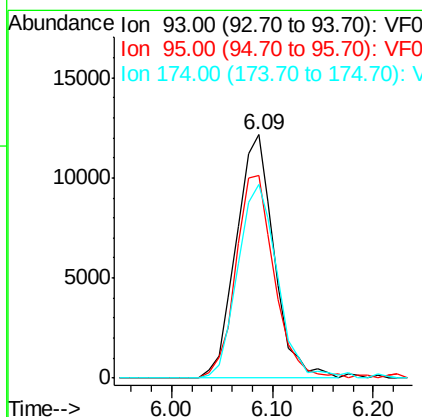
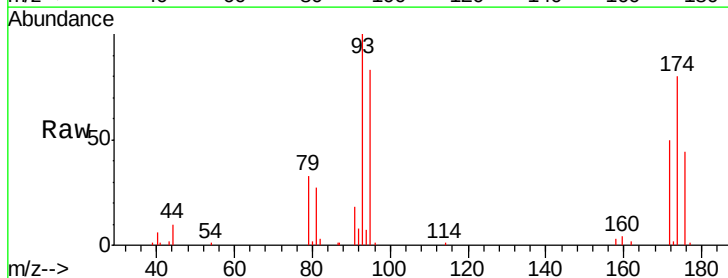
Manual Integrations
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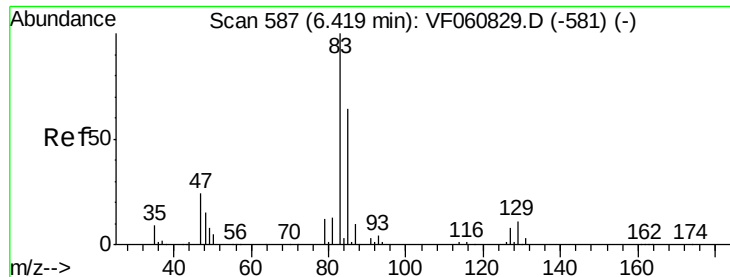
MMDadoda
 12/11/2018 4:15:43 PM



#46
 Dibromomethane
 Concen: 22.675 ug/l
 RT: 6.09 min Scan# 553
 Delta R.T. -0.04 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion: 93 Resp: 31694
 Ion Ratio Lower Upper
 93 100
 95 83.1 64.7 97.1
 174 79.7 73.0 109.6





#47

Bromodichloromethane

Concen: 22.205 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

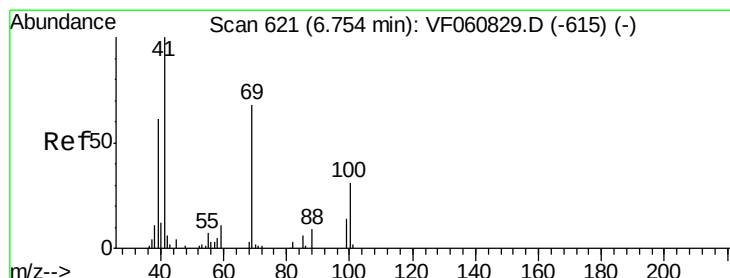
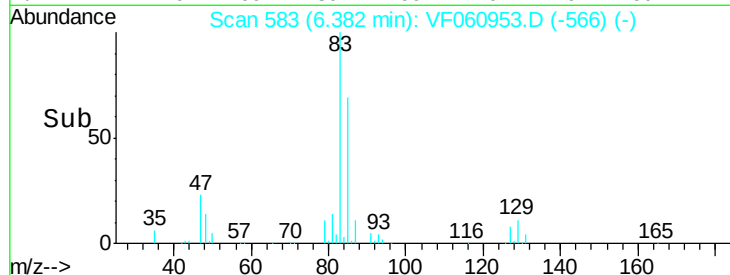
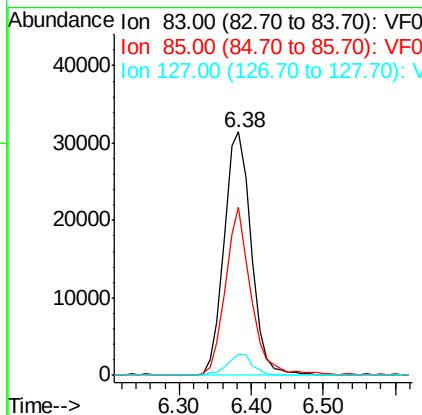
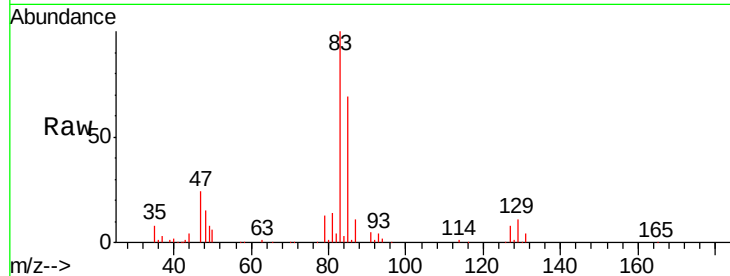
ClientSampleId :

VF1210SBS01

Tgt Ion:	83	Resp:	82436
Ion	Ratio	Lower	Upper
83	100		
85	69.1	51.1	76.7
127	8.5	6.8	10.2

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#48

Methyl methacrylate

Concen: 21.079 ug/l

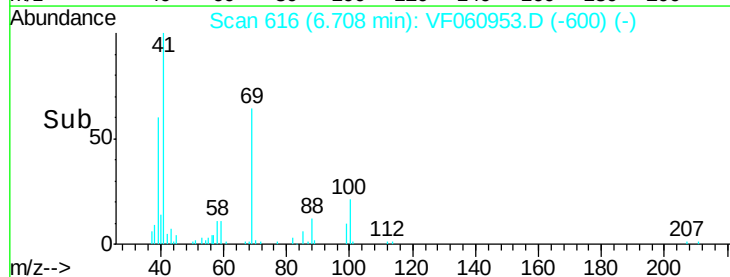
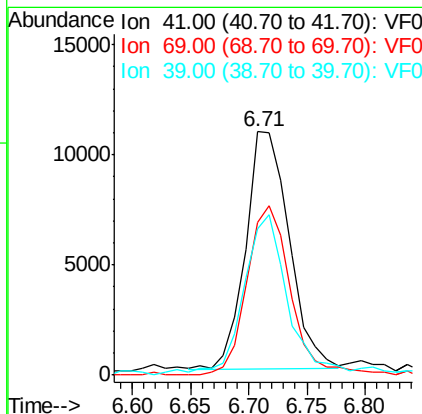
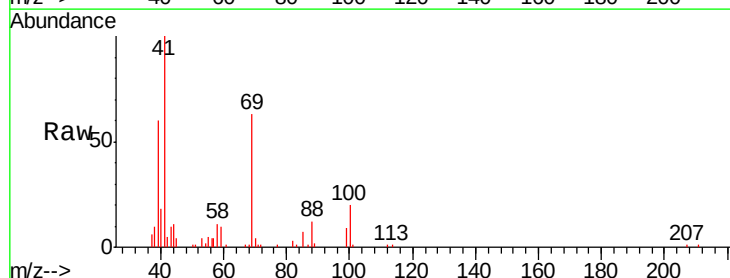
RT: 6.71 min Scan# 616

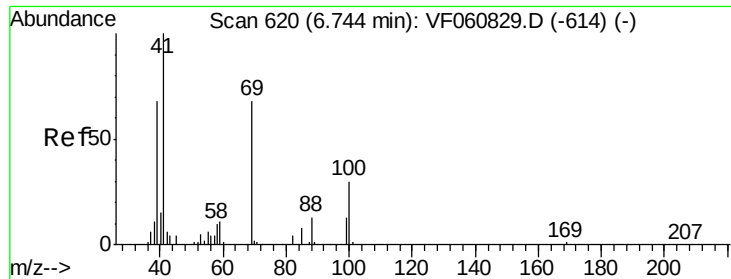
Delta R.T. -0.05 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	41	Resp:	27845
Ion	Ratio	Lower	Upper
41	100		
69	62.5	53.9	80.9
39	60.3	49.0	73.6





#49

1,4-Dioxane

Concen: 449.222 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

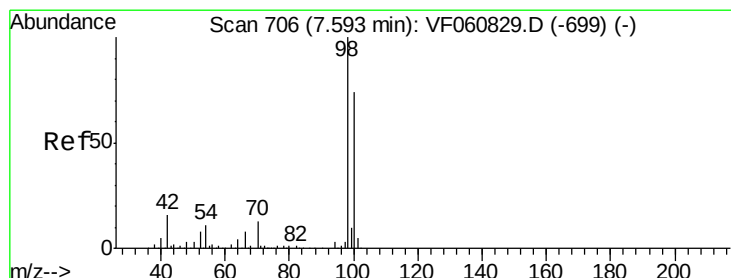
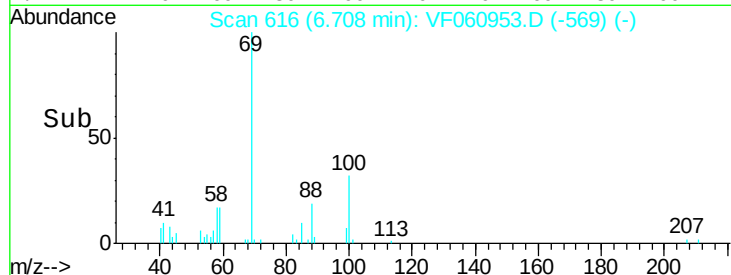
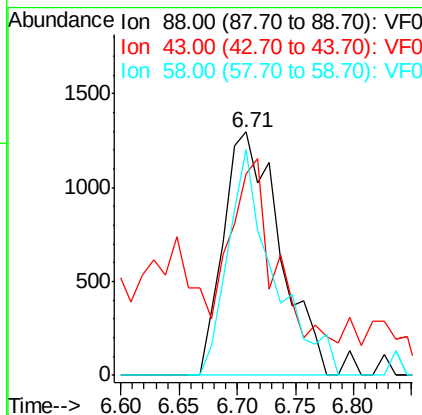
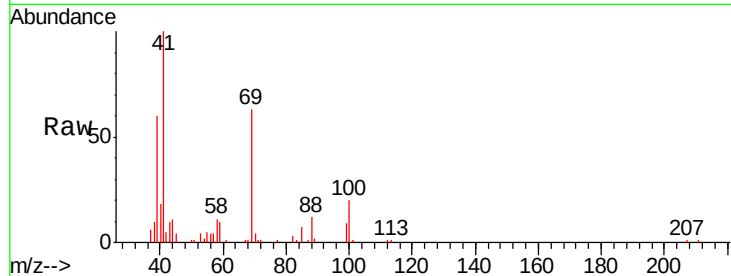
ClientSampleId :

VF1210SBSD01

Tgt Ion:	88	Resp:	4343
Ion Ratio	Lower	Upper	
88	100		
43	82.9	42.0	63.0#
58	92.6	61.8	92.8

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#50

Toluene-d8

Concen: 46.479 ug/l

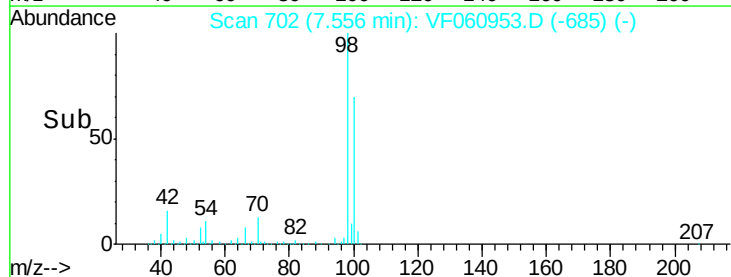
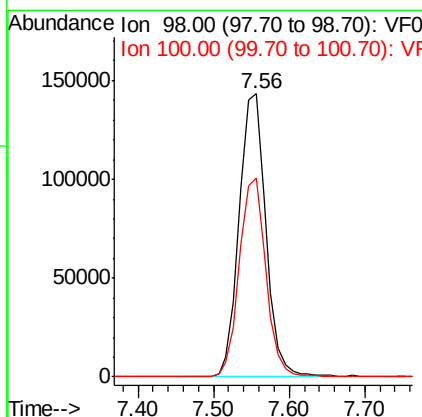
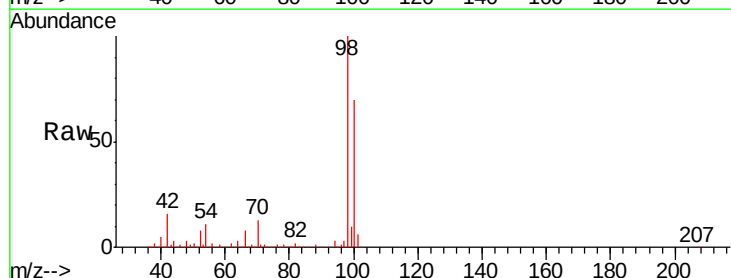
RT: 7.56 min Scan# 702

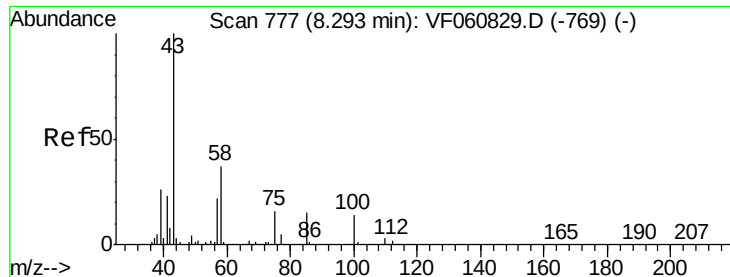
Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	98	Resp:	351669
Ion Ratio	Lower	Upper	
98	100		
100	70.4	59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 116.096 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 43 Resp: 156238

Ion Ratio Lower Upper

43 100

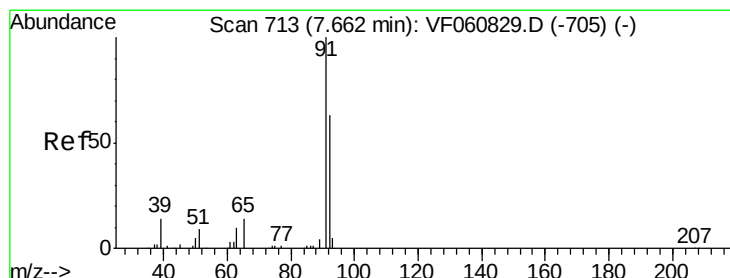
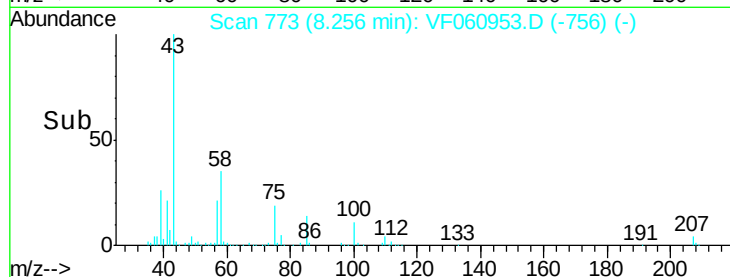
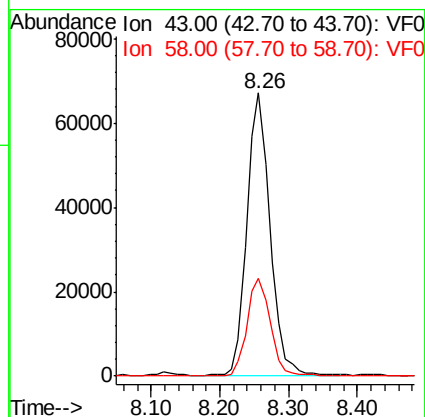
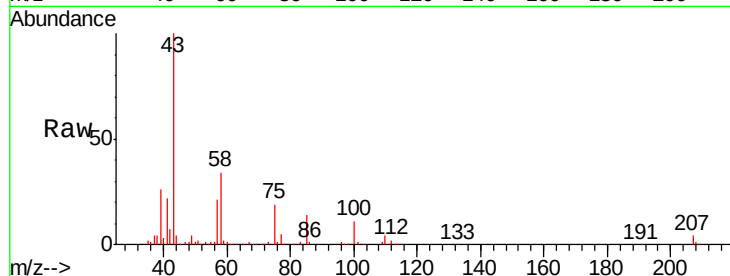
58 34.5 29.7 44.5

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#52

Toluene

Concen: 19.952 ug/l

RT: 7.62 min Scan# 708

Delta R.T. -0.05 min

Lab File: VF060953.D

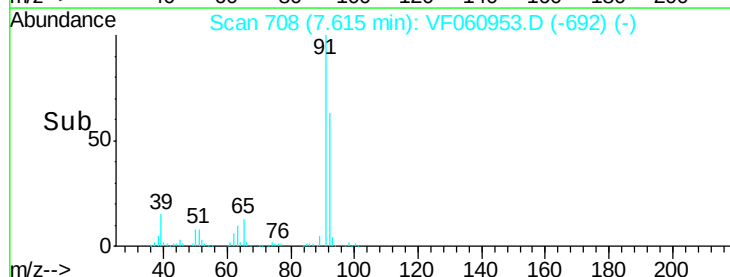
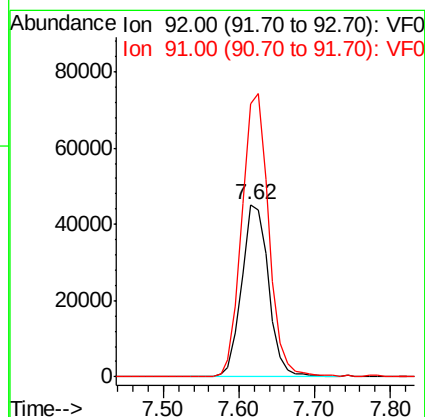
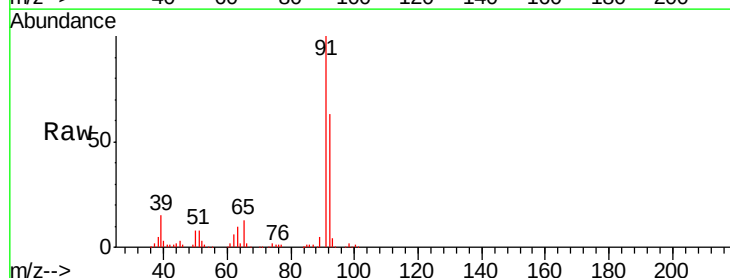
Acq: 10 Dec 2018 14:59

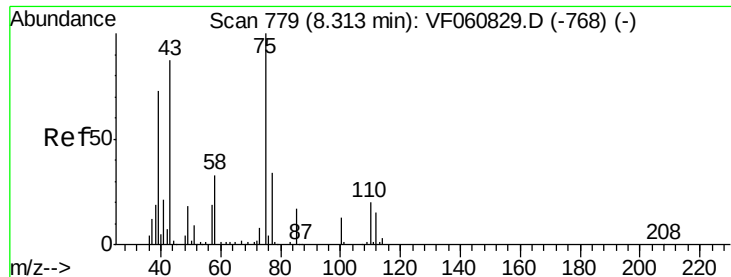
Tgt Ion: 92 Resp: 111185

Ion Ratio Lower Upper

92 100

91 158.6 126.2 189.2





#53

t-1,3-Dichloropropene

Concen: 21.423 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 75 Resp: 64692

Ion Ratio Lower Upper

75 100

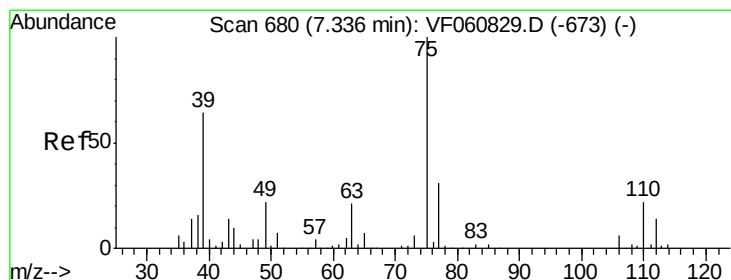
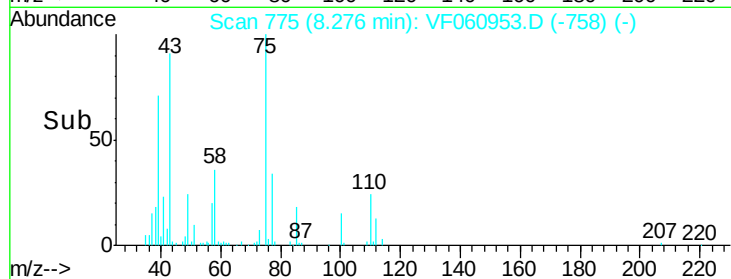
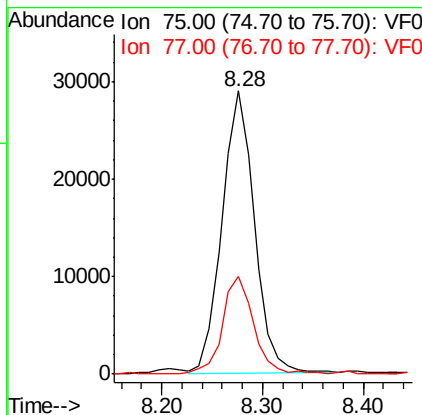
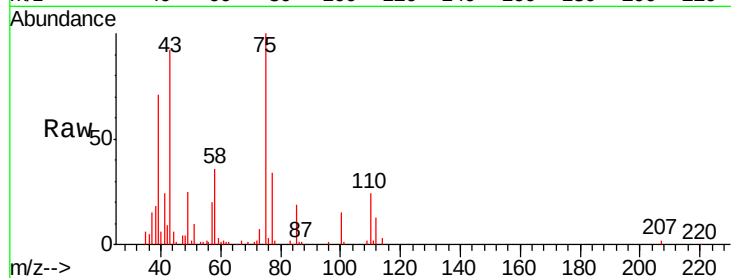
77 34.5 27.4 41.2

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#54

cis-1,3-Dichloropropene

Concen: 22.446 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

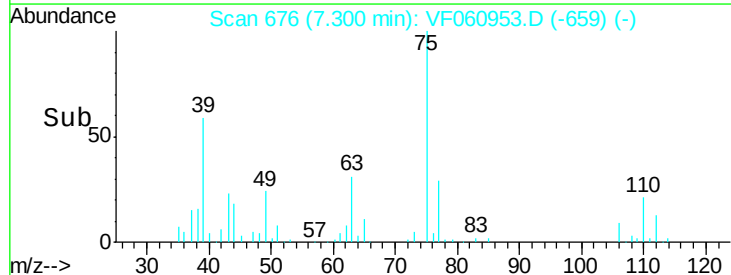
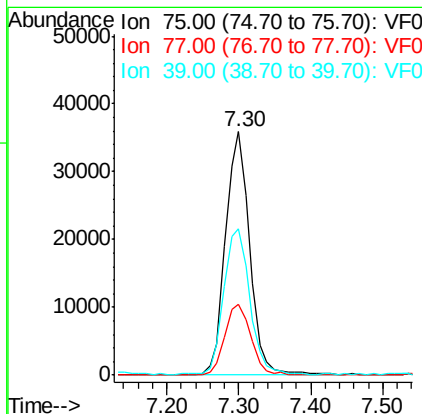
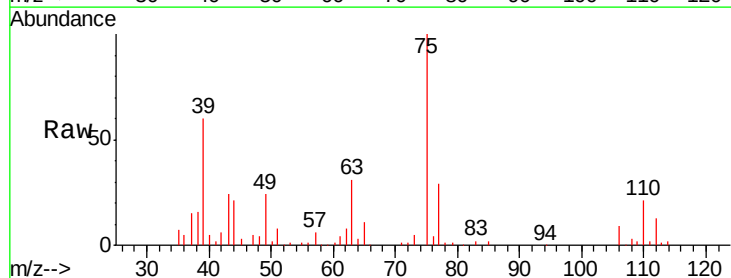
Tgt Ion: 75 Resp: 83910

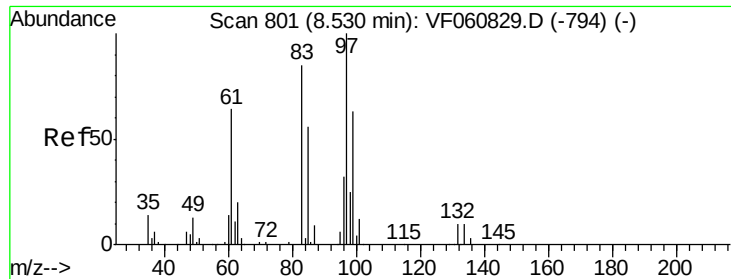
Ion Ratio Lower Upper

75 100

77 29.2 25.0 37.6

39 60.0 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 21.702 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

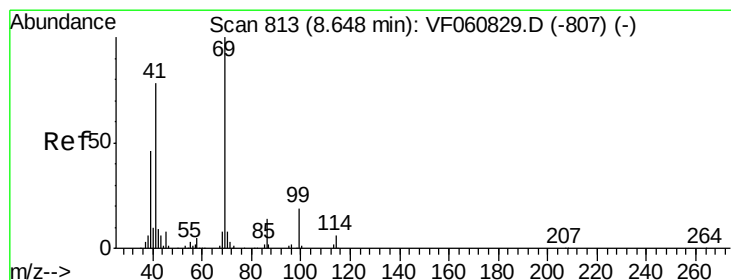
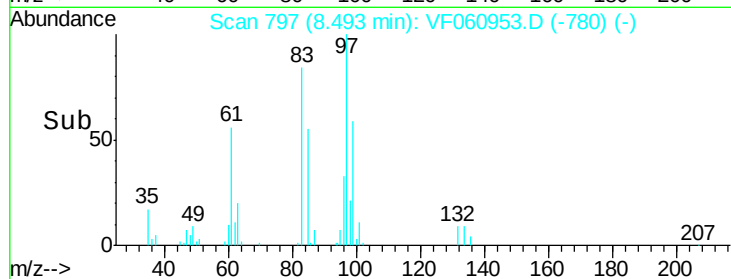
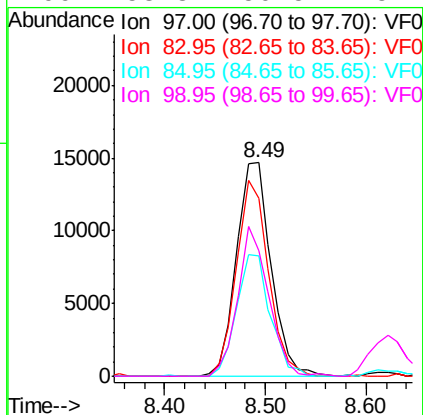
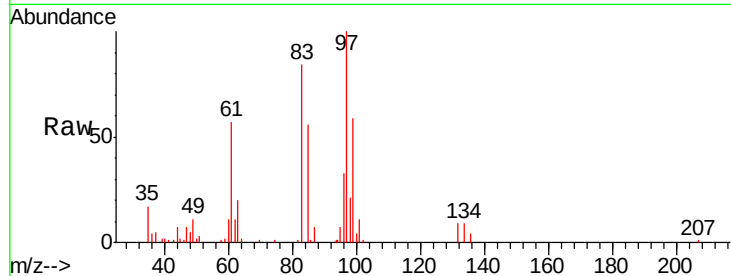
ClientSampleId :

VF1210SBS01

Tgt Ion:	97	Resp:	35240
Ion	Ratio	Lower	Upper
97	100		
83	83.5	67.8	101.6
85	56.1	45.0	67.6
99	58.8	50.5	75.7

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#56

Ethyl methacrylate

Concen: 20.268 ug/l

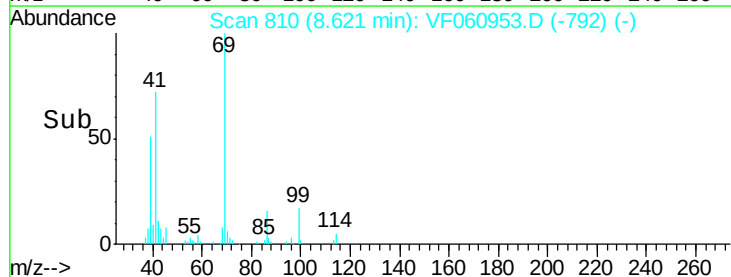
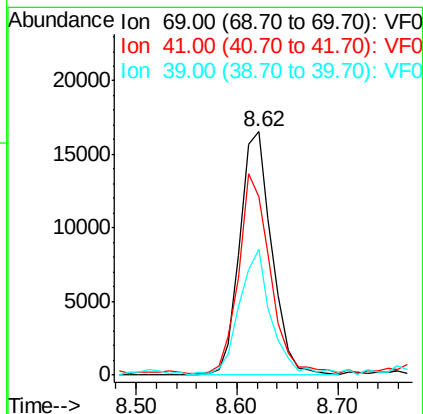
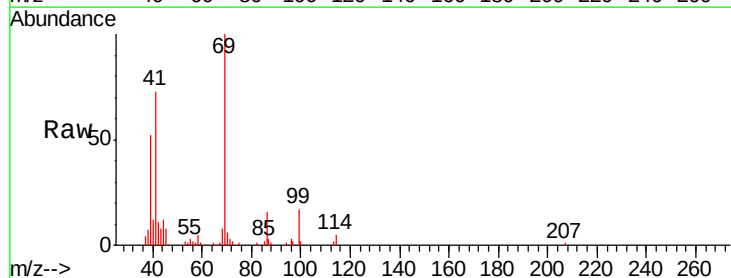
RT: 8.62 min Scan# 810

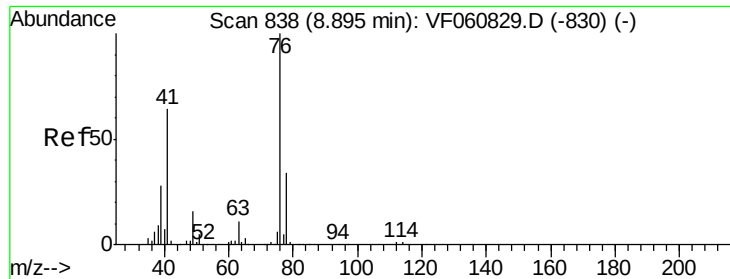
Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	69	Resp:	36561
Ion	Ratio	Lower	Upper
69	100		
41	73.4	62.6	94.0
39	51.7	37.8	56.6





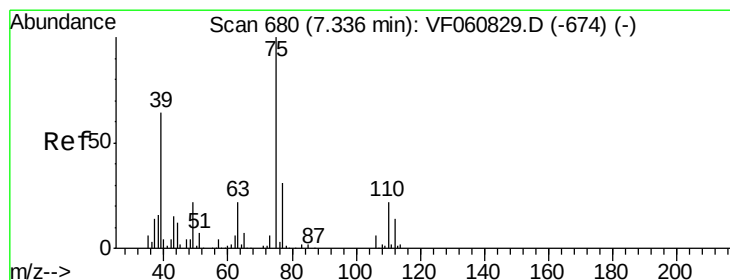
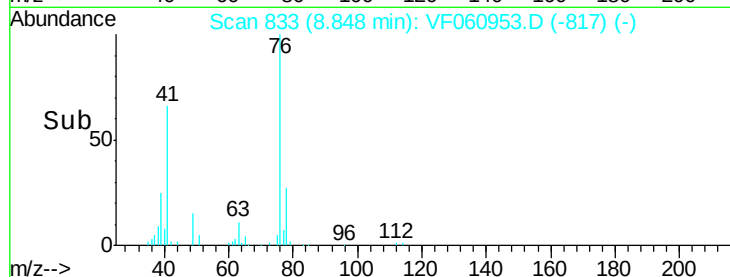
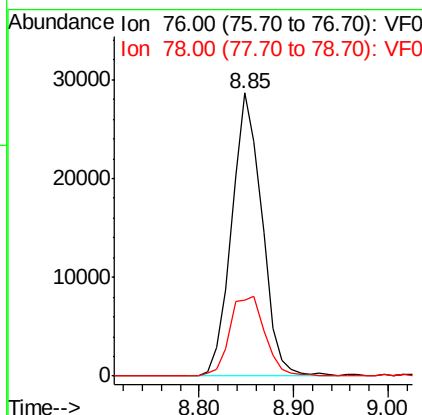
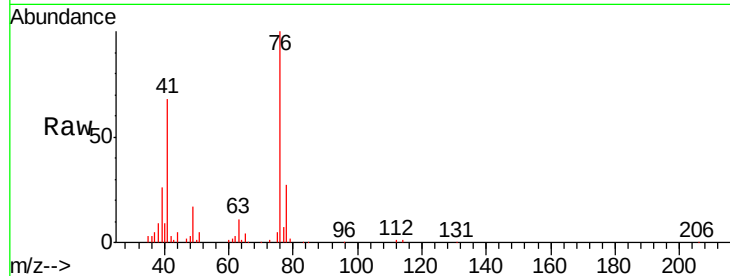
#57
 1,3-Dichloropropane
 Concen: 22.375 ug/l
 RT: 8.85 min Scan# 833
 Delta R.T. -0.05 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion: 76 Resp: 63566
 Ion Ratio Lower Upper
 76 100
 78 27.0 27.0 40.4

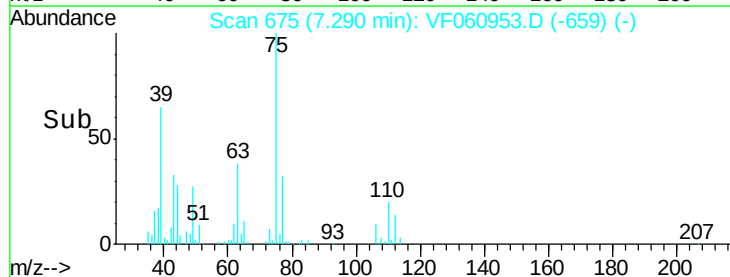
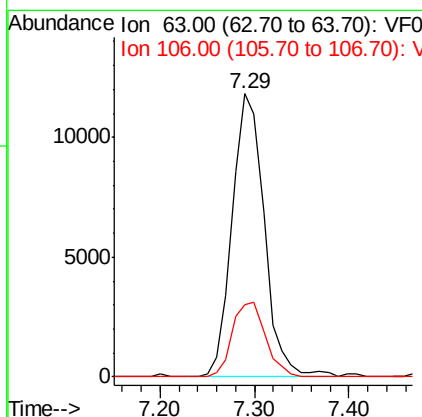
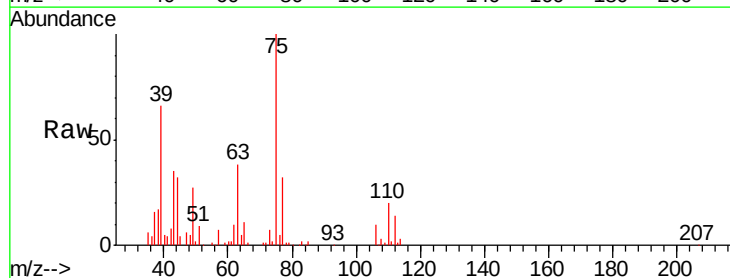
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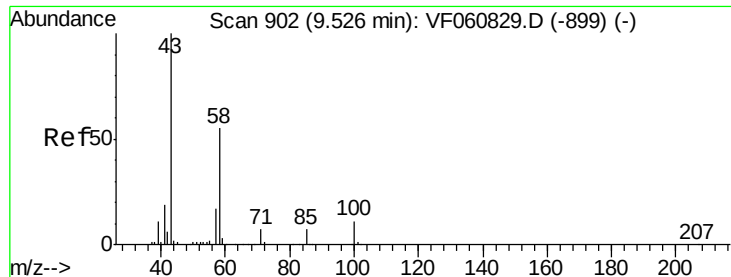
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#58
 2-Chloroethyl Vinyl ether
 Concen: 151.234 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.05 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion: 63 Resp: 27904
 Ion Ratio Lower Upper
 63 100
 106 25.4 23.0 34.6





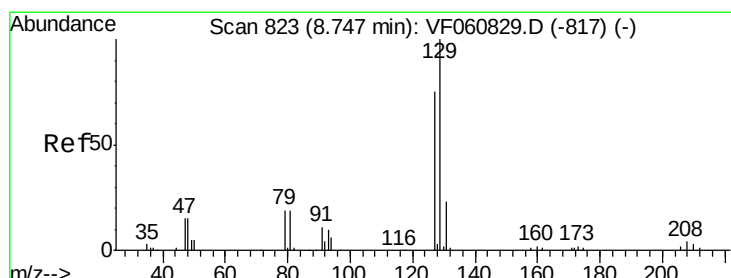
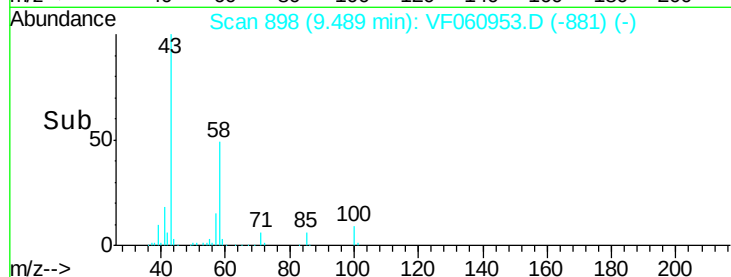
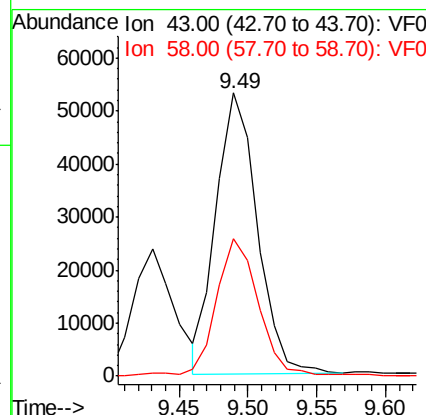
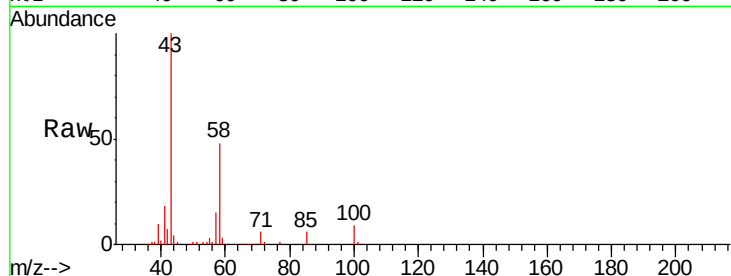
#59
2-Hexanone
Concen: 117.338 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion: 43 Resp: 110783
Ion Ratio Lower Upper
43 100
58 48.4 25.6 76.6

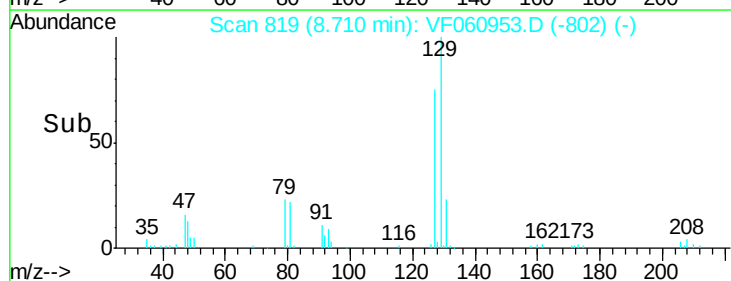
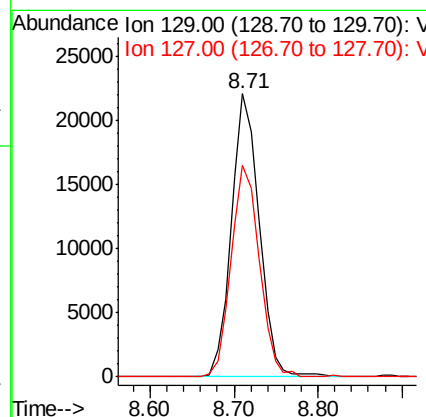
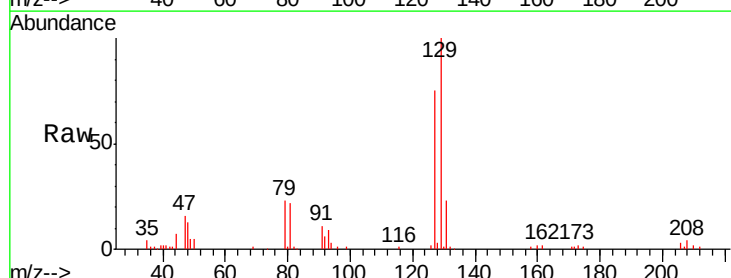
Manual Integrations
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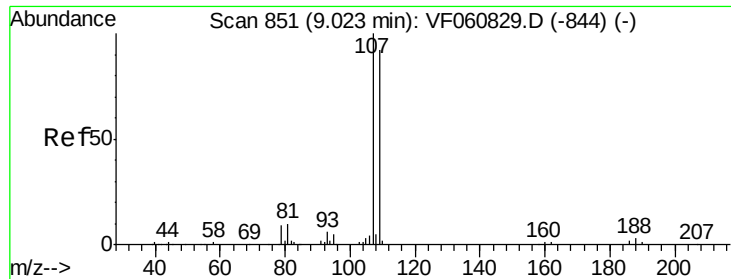
MMDadoda
12/11/2018 4:15:43 PM



#60
Dibromochloromethane
Concen: 20.948 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion: 129 Resp: 50683
Ion Ratio Lower Upper
129 100
127 74.7 37.3 111.9





#61

1,2-Dibromoethane

Concen: 20.580 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 107 Resp: 36102

Ion Ratio Lower Upper

107 100

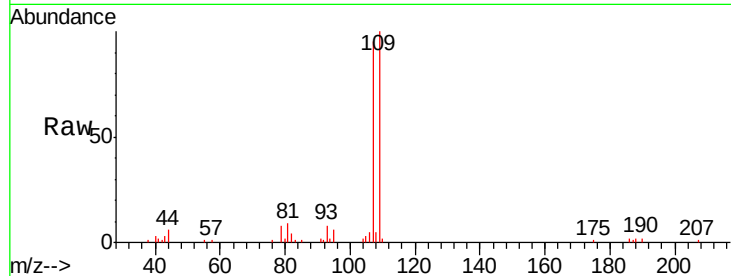
109 105.2 73.6 110.4

Manual Integrations

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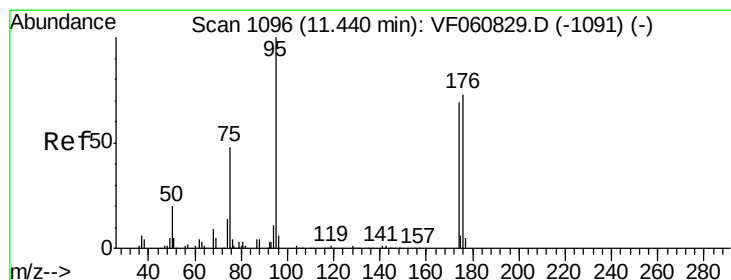
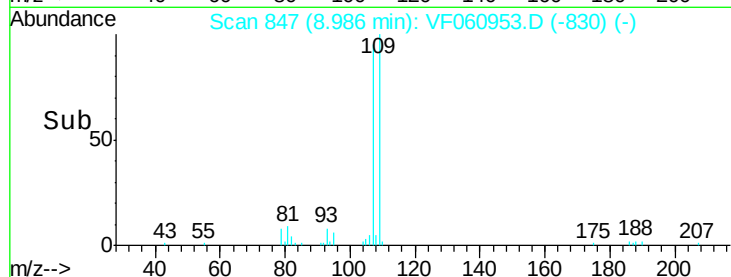
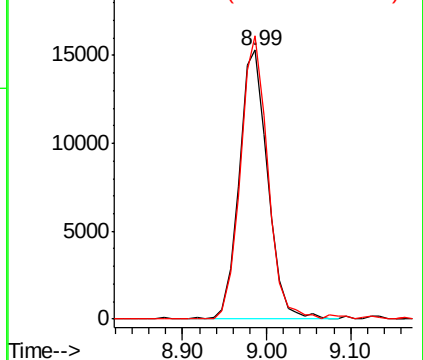
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.782 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

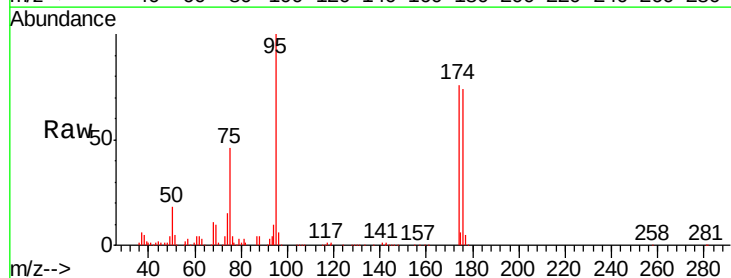
Tgt Ion: 95 Resp: 160871

Ion Ratio Lower Upper

95 100

174 76.3 0.0 138.2

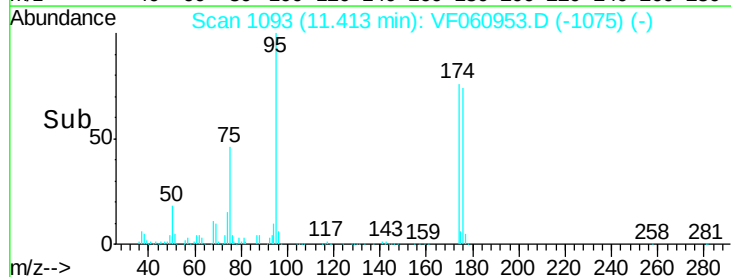
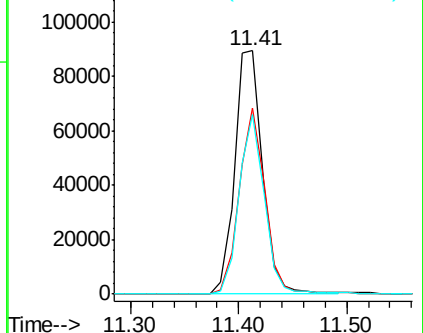
176 74.0 0.0 146.2

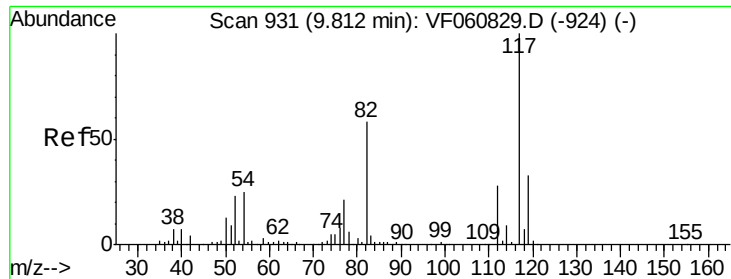


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





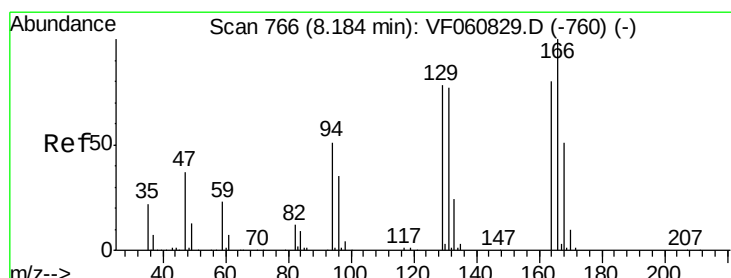
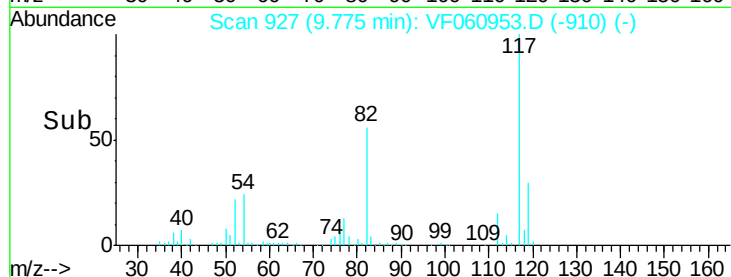
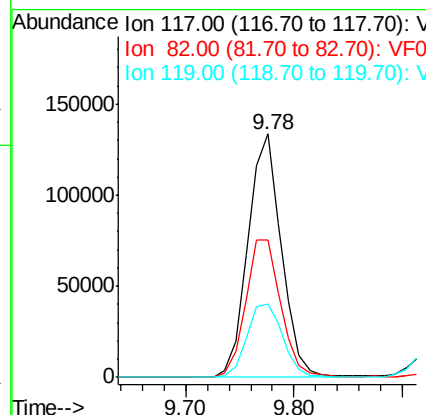
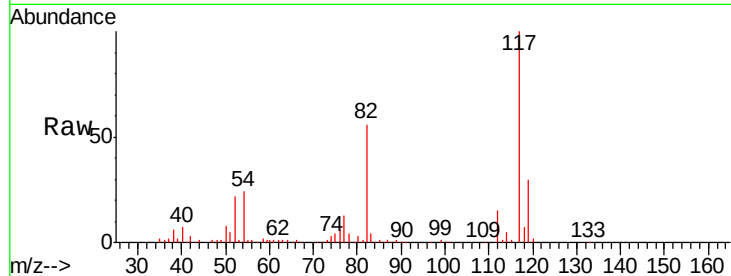
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	288082		
82	56.4	46.6	69.8	
119	30.2	26.4	39.6	

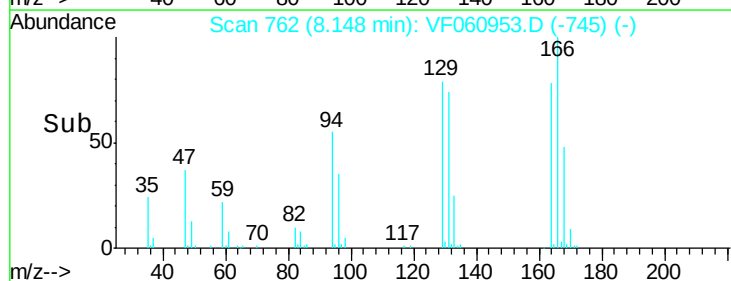
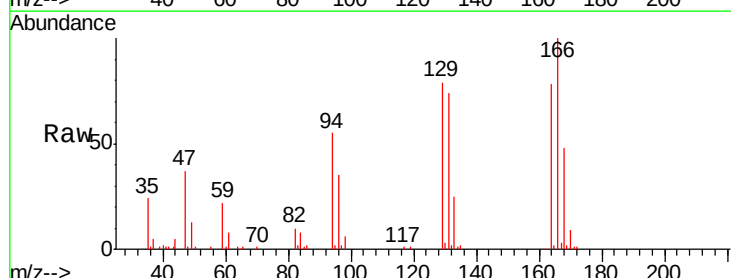
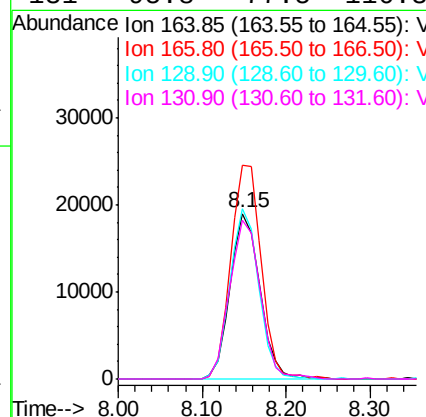
Manual Integrations
APPROVED

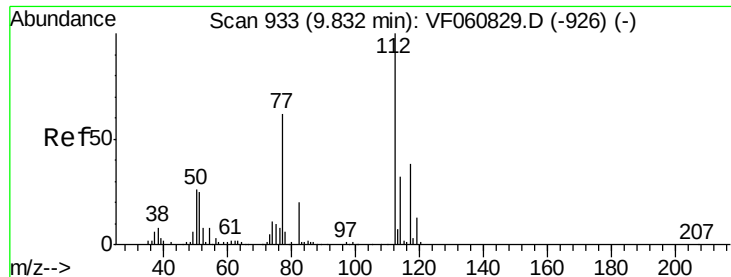
MMDadoda
12/11/2018 4:15:43 PM



#64
Tetrachloroethene
Concen: 21.360 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	47001		
166	129.0	100.3	150.5	
129	102.5	77.9	116.9	
131	95.8	77.5	116.3	





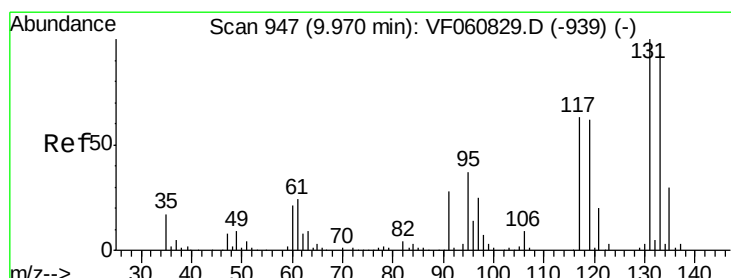
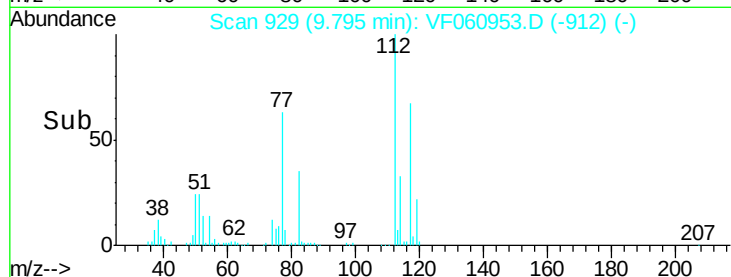
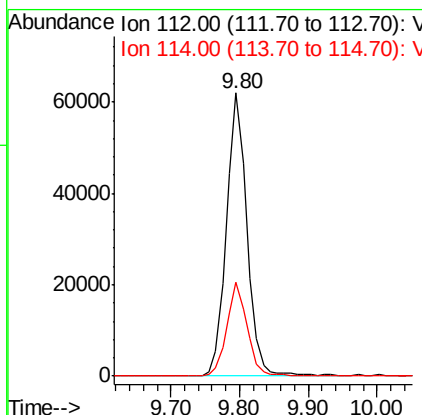
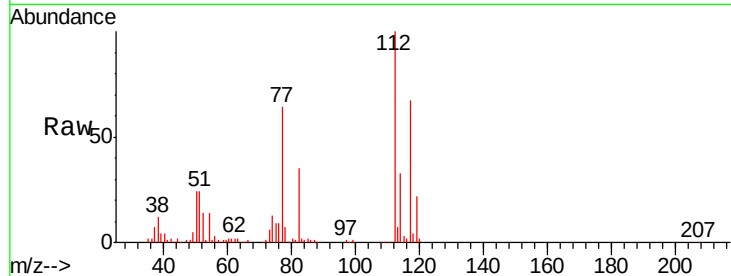
#65
Chlorobenzene
Concen: 22.882 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion:112 Resp: 128240
Ion Ratio Lower Upper
112 100
114 33.2 26.0 39.0

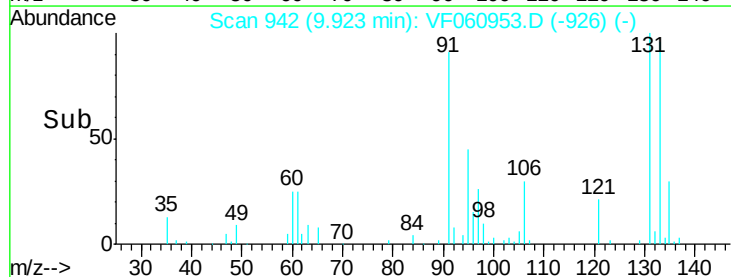
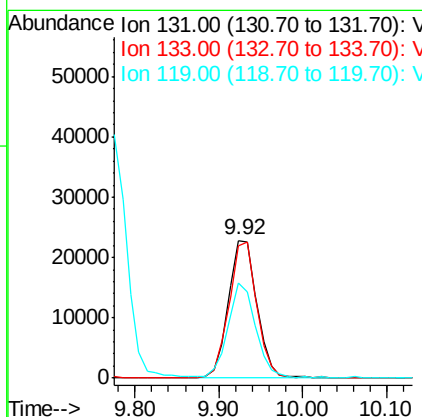
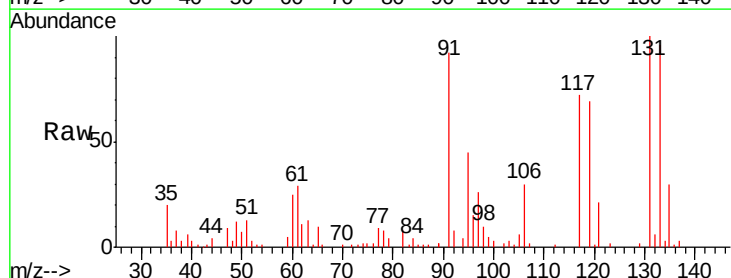
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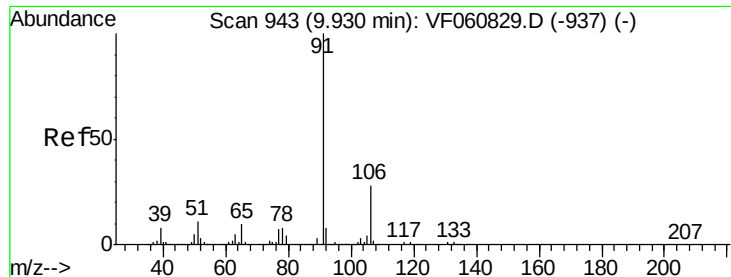
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.451 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.05 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion:131 Resp: 54091
Ion Ratio Lower Upper
131 100
133 95.6 46.5 139.3
119 68.8 31.1 93.3





#67

Ethyl Benzene

Concen: 22.322 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 91 Resp: 232901

Ion Ratio Lower Upper

91 100

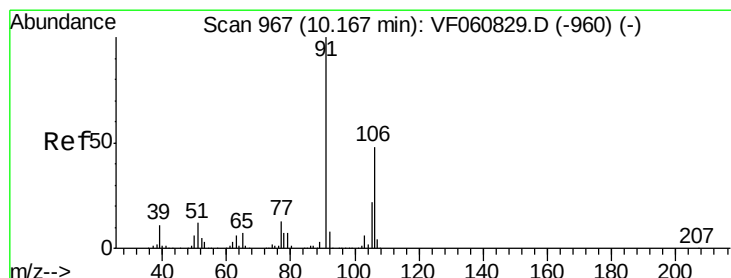
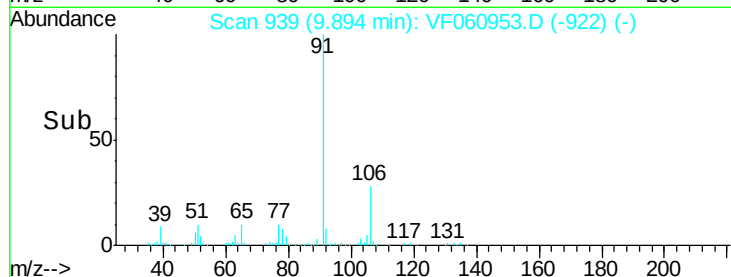
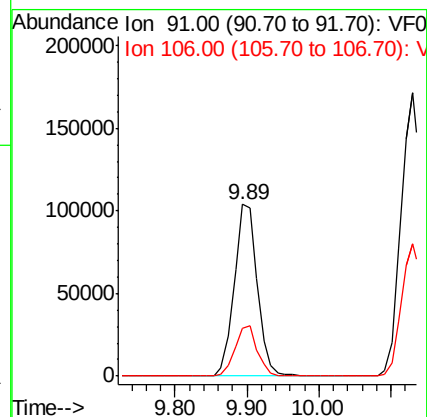
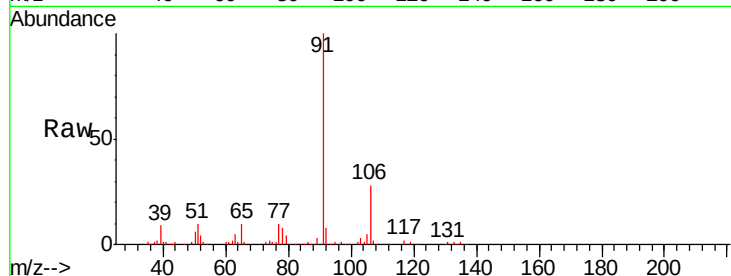
106 28.1 22.2 33.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 46.039 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060953.D

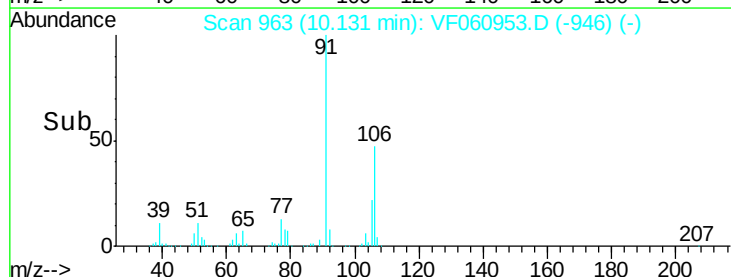
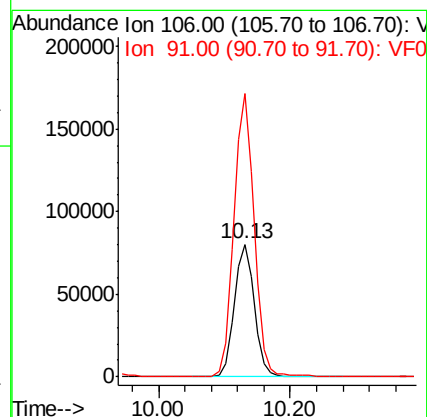
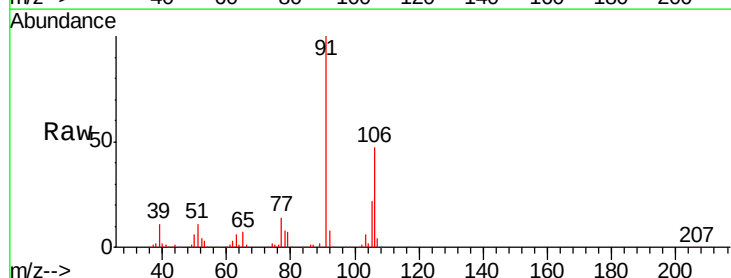
Acq: 10 Dec 2018 14:59

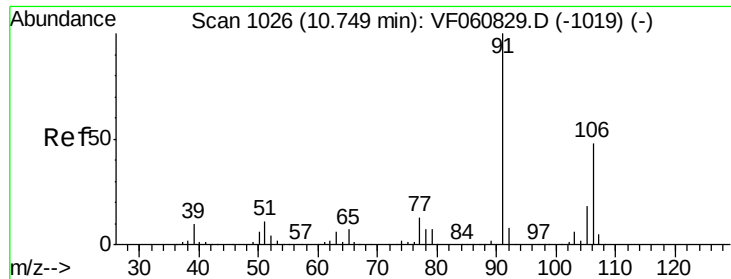
Tgt Ion: 106 Resp: 172761

Ion Ratio Lower Upper

106 100

91 213.4 166.7 250.1





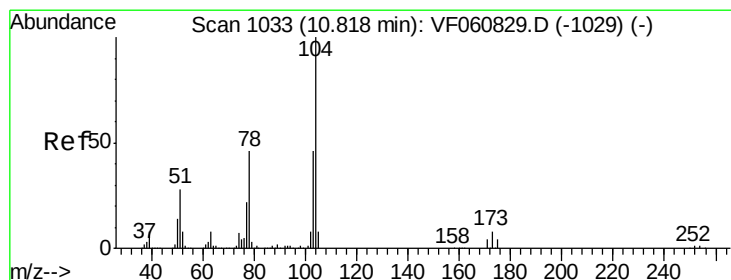
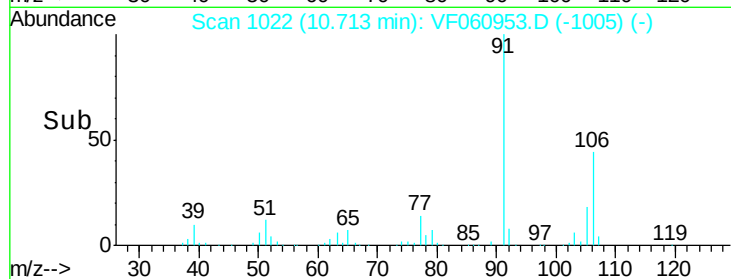
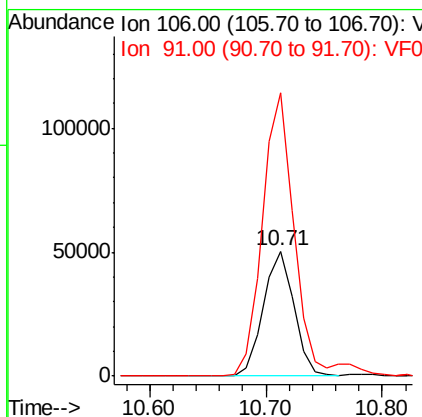
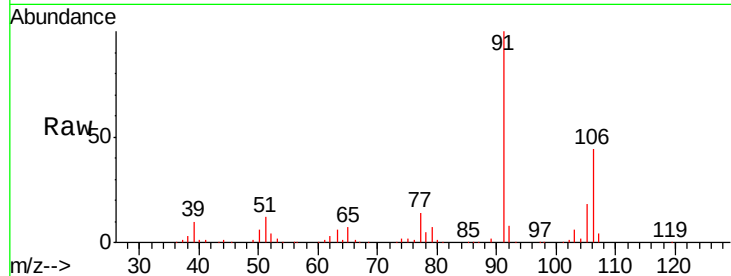
#69
o-Xylene
Concen: 22.306 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.04 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion:106 Resp: 92299
Ion Ratio Lower Upper
106 100
91 226.8 104.8 314.6

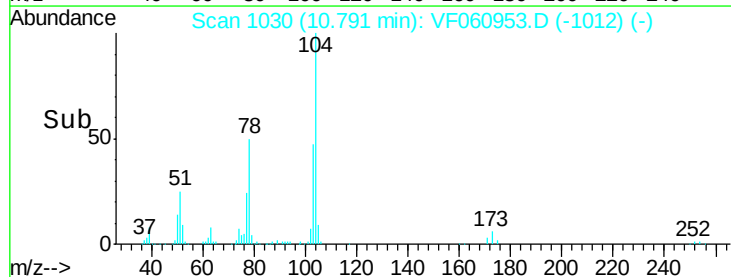
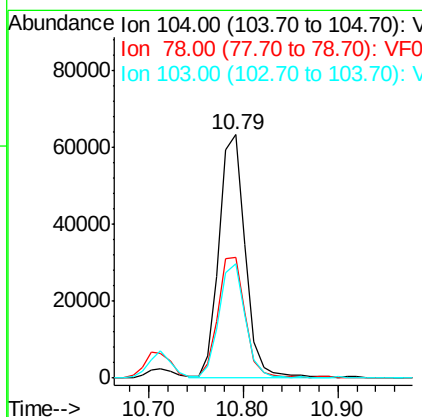
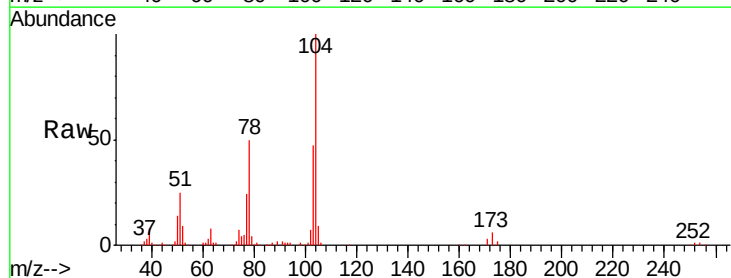
Manual Integrations
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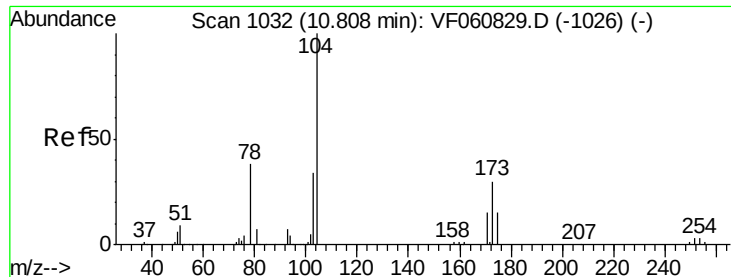
MMDadoda
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#70
Styrene
Concen: 21.131 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion:104 Resp: 121208
Ion Ratio Lower Upper
104 100
78 49.6 37.3 55.9
103 47.1 36.8 55.2





#71

Bromoform

Concen: 21.807 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion:173 Resp: 25378

Ion Ratio Lower Upper

173 100

175 55.4 25.5 76.5

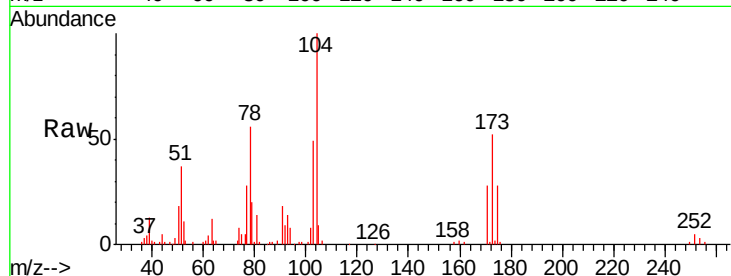
254 6.2 7.5 11.3#

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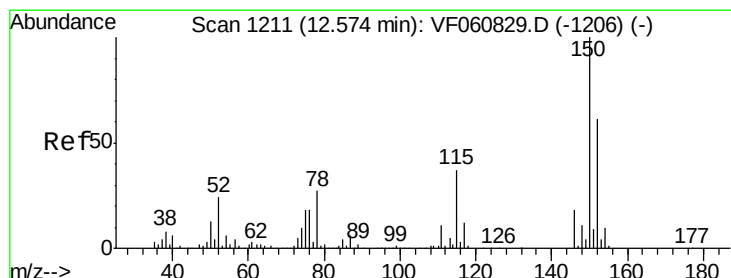
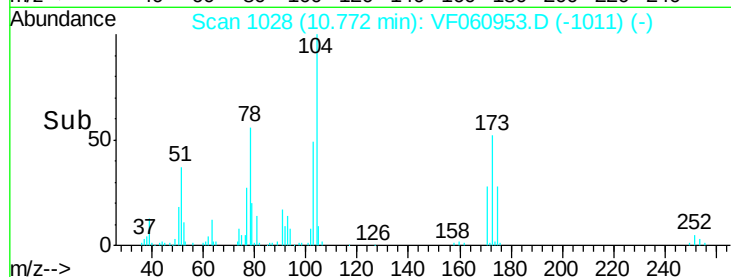
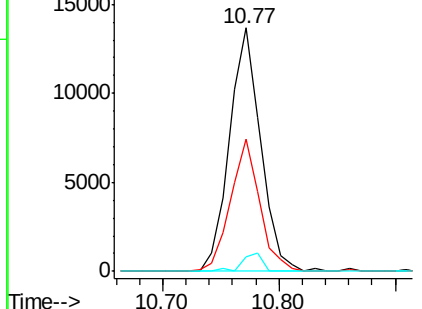
12/11/2018 4:15:43 PM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

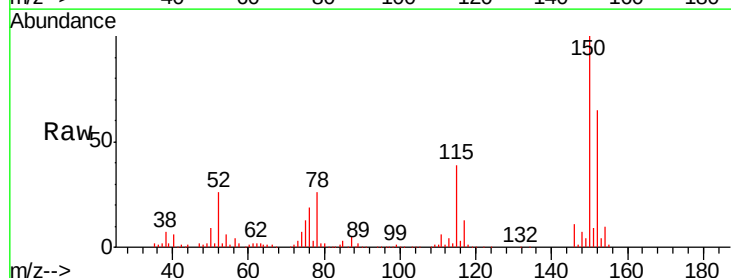
Tgt Ion:152 Resp: 154123

Ion Ratio Lower Upper

152 100

115 60.6 30.1 90.5

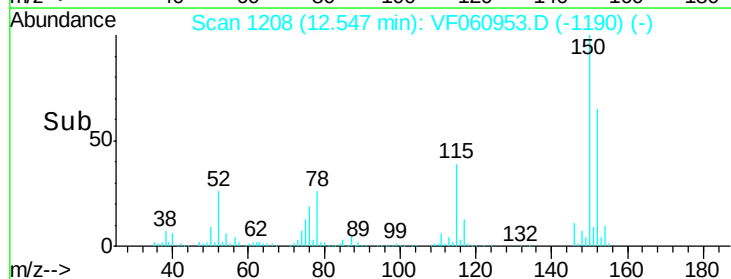
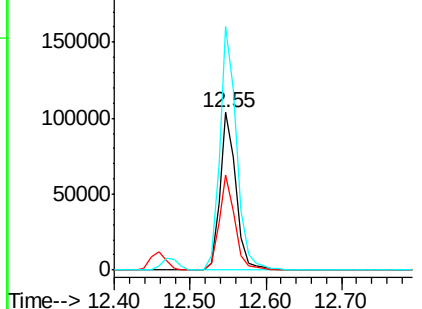
150 154.6 0.0 327.6

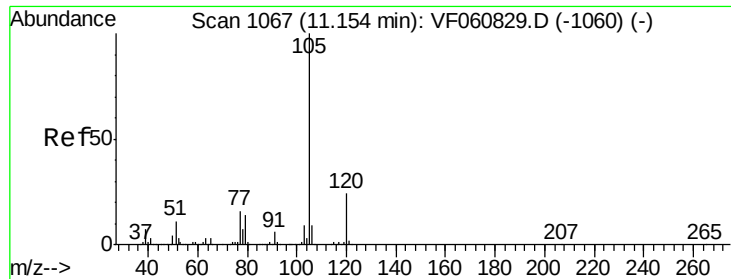


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.532 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBS01

Tgt Ion: 105 Resp: 286609

Ion Ratio Lower Upper

105 100

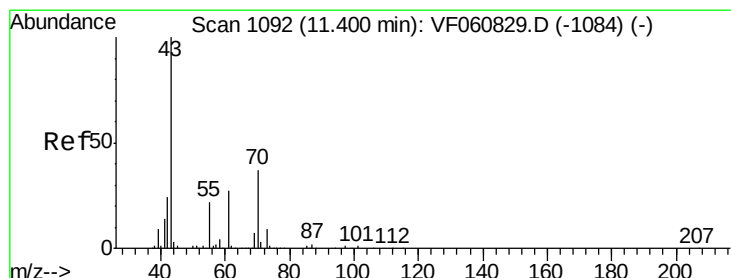
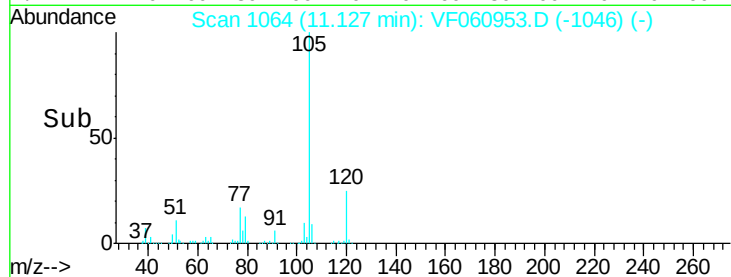
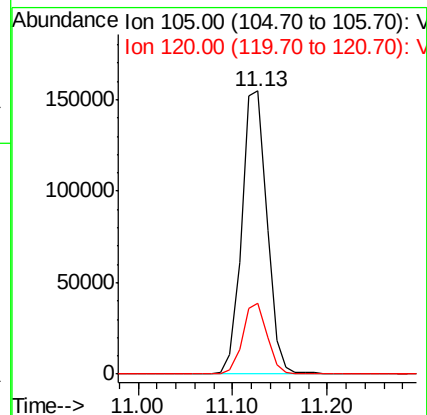
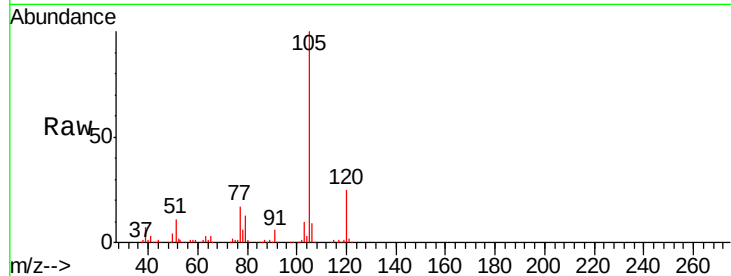
120 25.0 12.2 36.4

Manual Integrations

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#74

N-ethyl acetate

Concen: 24.027 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion: 43 Resp: 67574

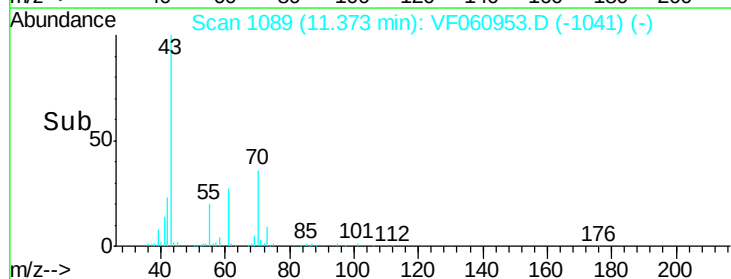
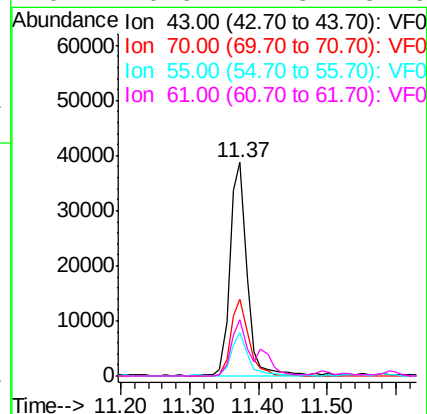
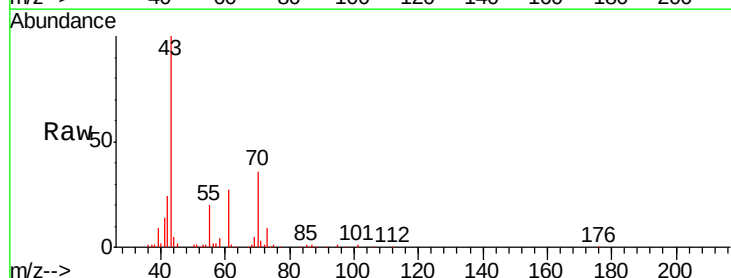
Ion Ratio Lower Upper

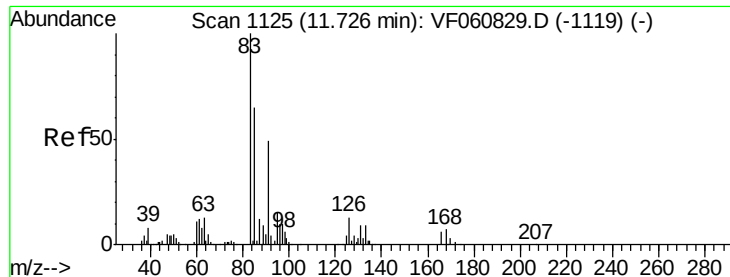
43 100

70 35.8 29.6 44.4

55 20.2 17.2 25.8

61 26.6 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.410 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

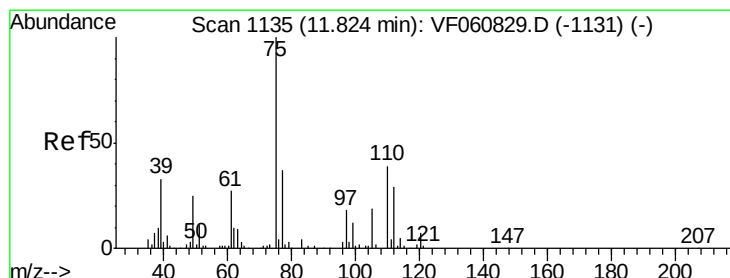
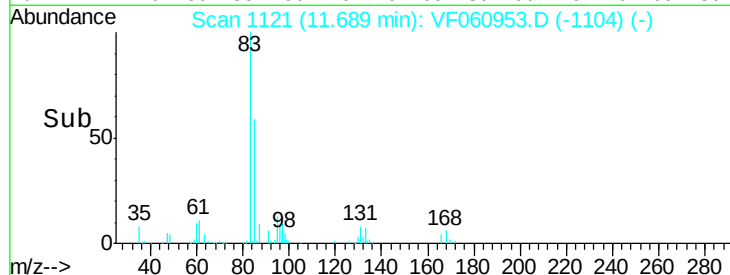
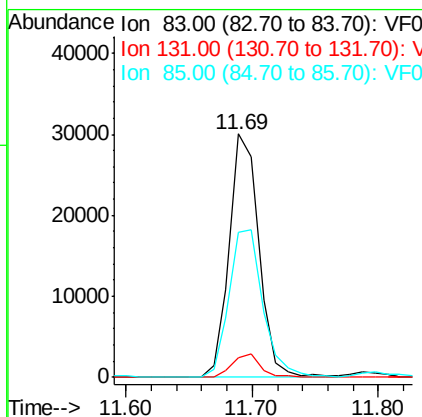
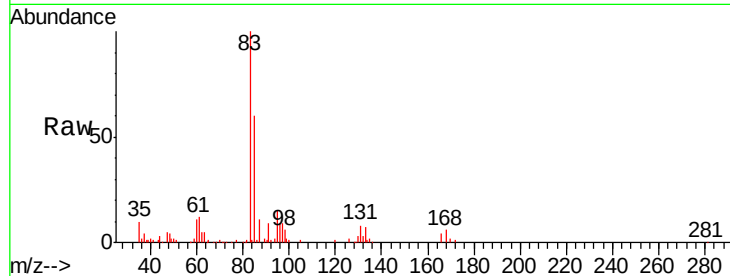
ClientSampleId :

VF1210SBS01

Tgt Ion:	83	Resp:	48929
Ion Ratio	Lower	Upper	
83	100		
131	8.0	4.7	14.1
85	59.8	32.6	97.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 25.228 ug/l

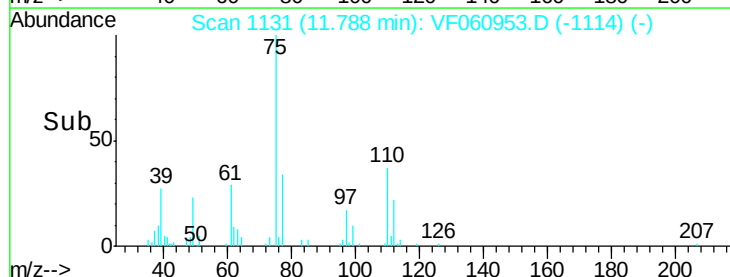
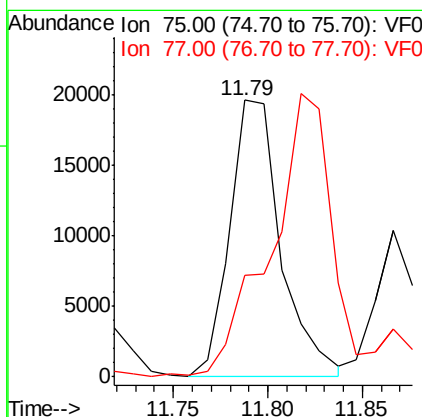
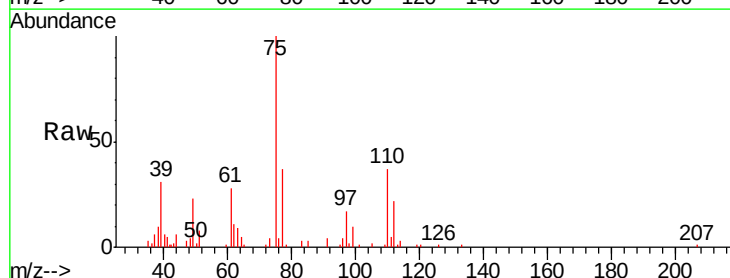
RT: 11.79 min Scan# 1131

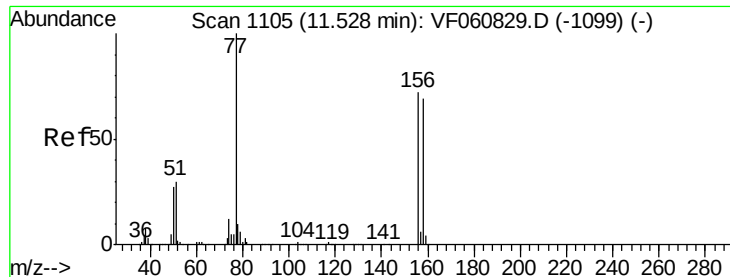
Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	75	Resp:	36757
Ion Ratio	Lower	Upper	
75	100		
77	36.6	18.4	55.4





#77

Bromobenzene

Concen: 22.708 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.04 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

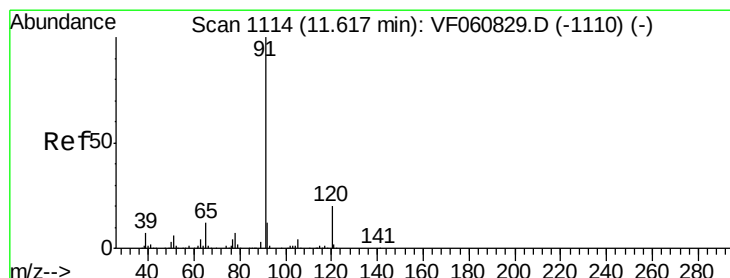
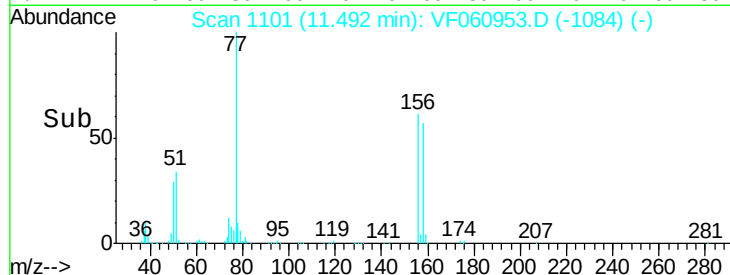
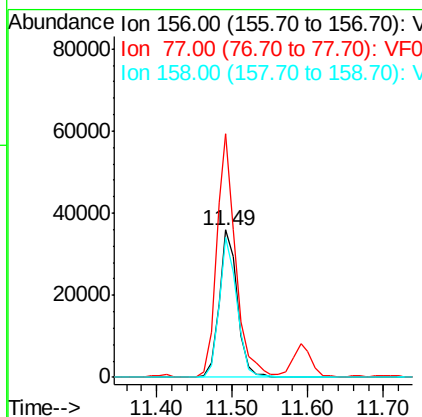
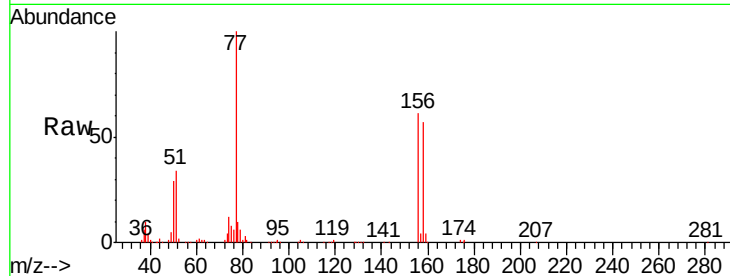
ClientSampleId :

VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	165.3	69.7	209.0
158	94.8	47.8	143.4

Manual Integrations
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#78

n-propylbenzene

Concen: 22.431 ug/l

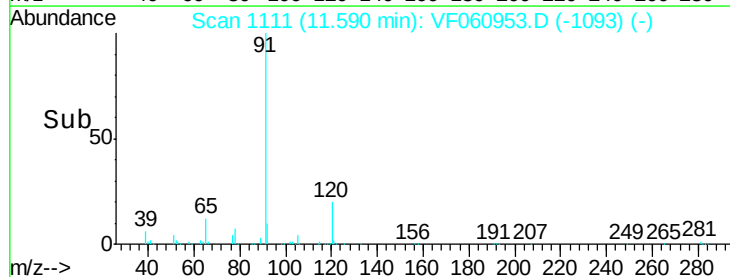
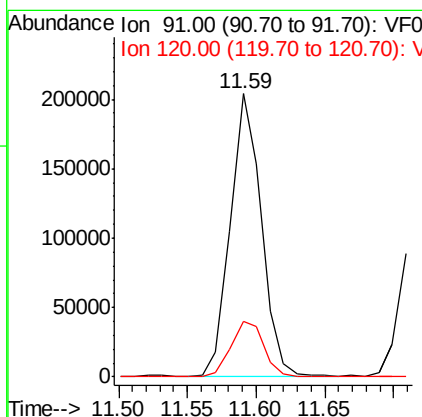
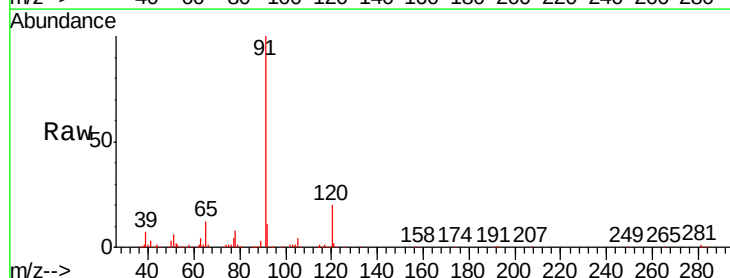
RT: 11.59 min Scan# 1111

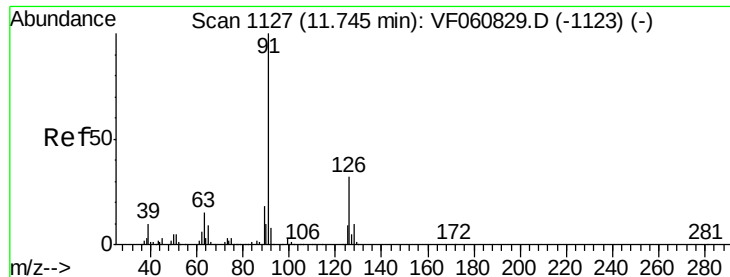
Delta R.T. -0.03 min

Lab File: VF060953.D

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Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.6	10.3	30.8





#79

2-Chlorotoluene

Concen: 23.965 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

ClientSampleId :

VF1210SBSD01

Tgt Ion: 91 Resp: 195994

Ion Ratio Lower Upper

91 100

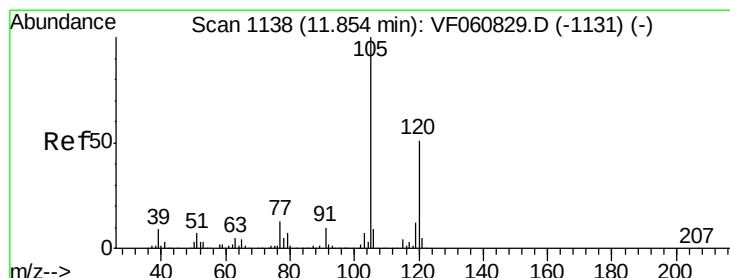
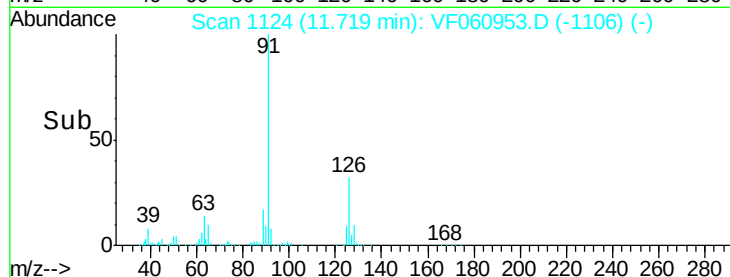
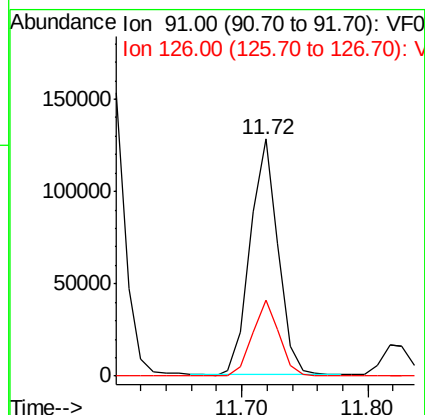
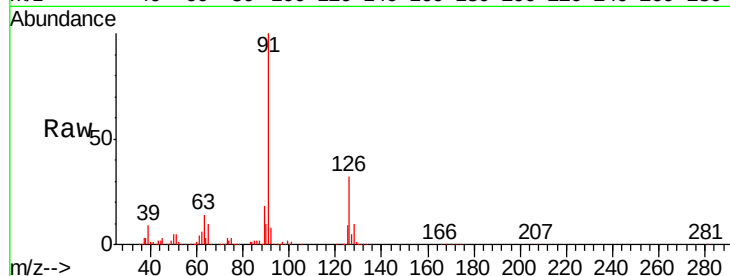
126 32.2 15.9 47.6

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#80

1,3,5-Trimethylbenzene

Concen: 23.978 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF060953.D

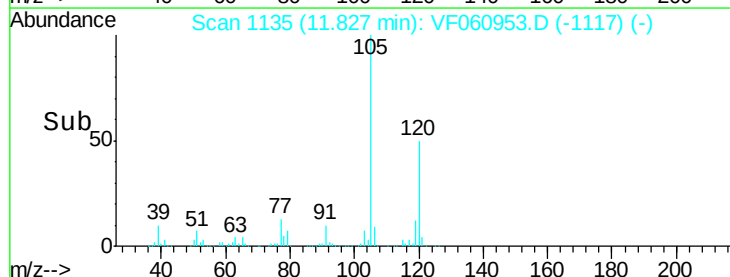
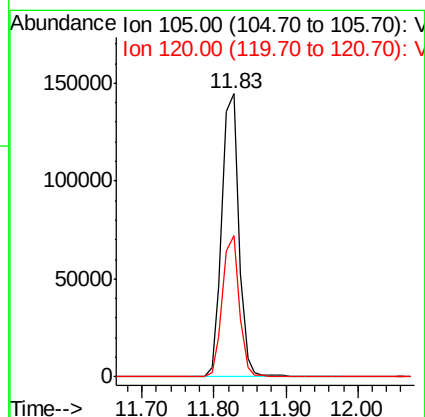
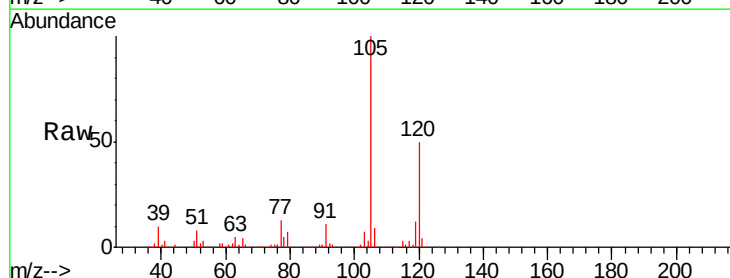
Acq: 10 Dec 2018 14:59

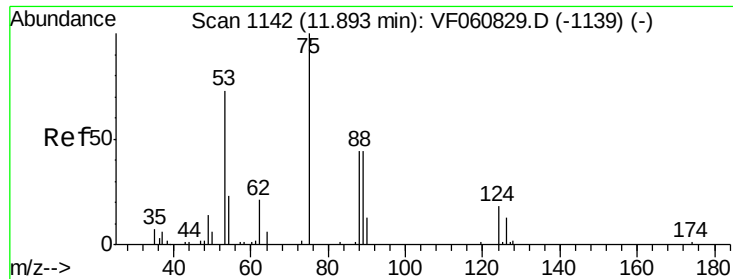
Tgt Ion: 105 Resp: 237089

Ion Ratio Lower Upper

105 100

120 49.8 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 22.956 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Instrument :

MSVOA_F

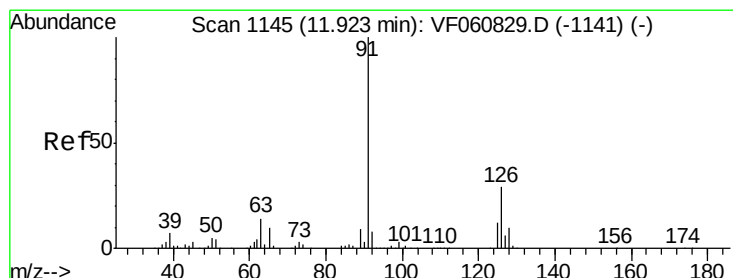
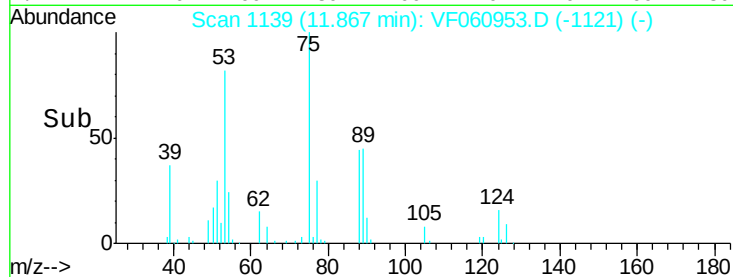
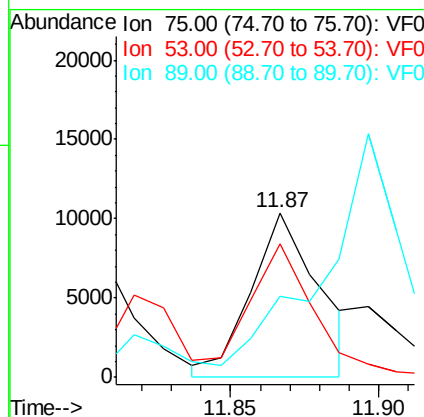
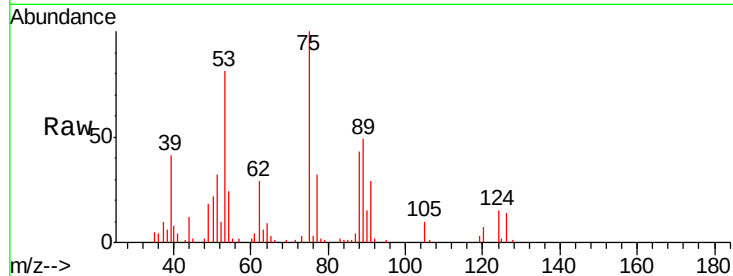
ClientSampleId :

VF1210SBS01

Tgt Ion:	75	Resp:	16388
Ion	Ratio	Lower	Upper
75	100		
53	81.1	65.9	98.9
89	49.3	38.8	58.2

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#82

4-Chlorotoluene

Concen: 22.378 ug/l

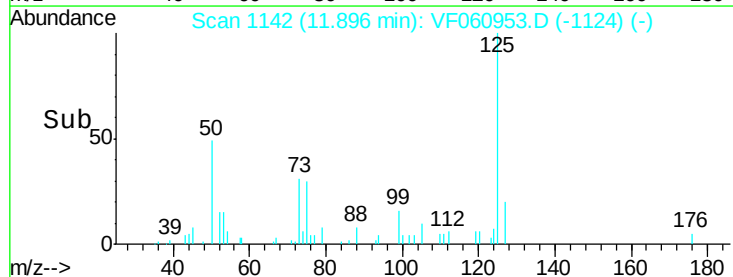
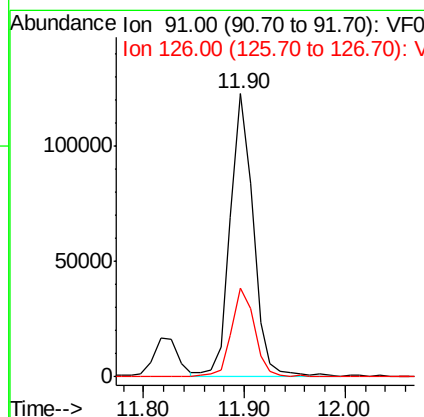
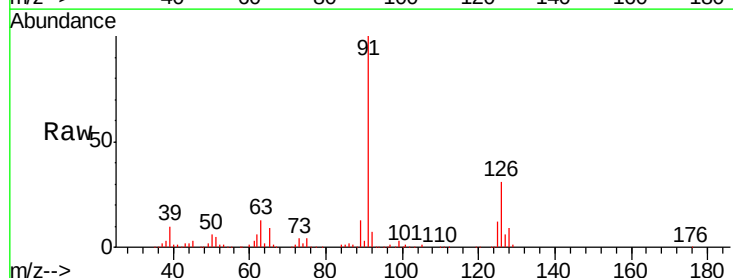
RT: 11.90 min Scan# 1142

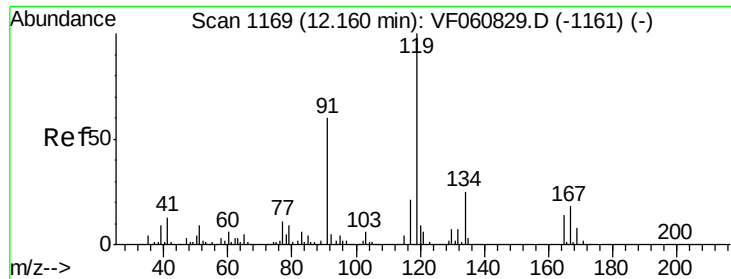
Delta R.T. -0.03 min

Lab File: VF060953.D

Acq: 10 Dec 2018 14:59

Tgt Ion:	91	Resp:	192599
Ion	Ratio	Lower	Upper
91	100		
126	31.4	14.8	44.4





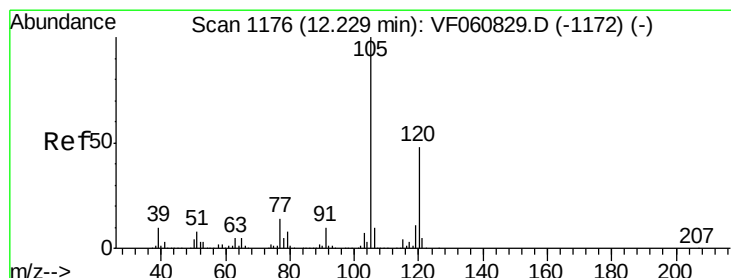
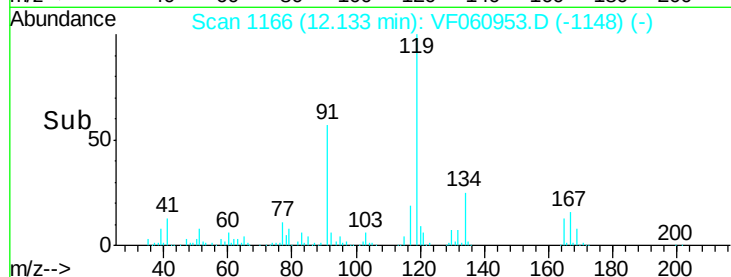
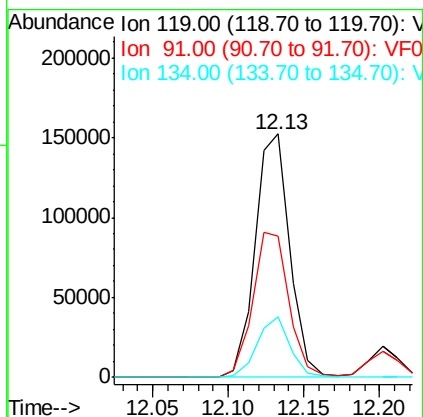
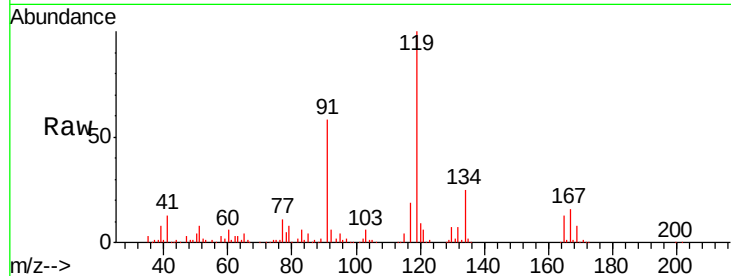
#83
 tert-Butylbenzene
 Concen: 24.229 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	244031		
91	58.1	30.1	90.3	
134	24.7	12.6	37.8	

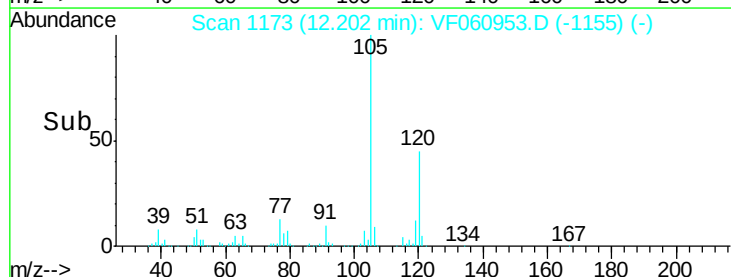
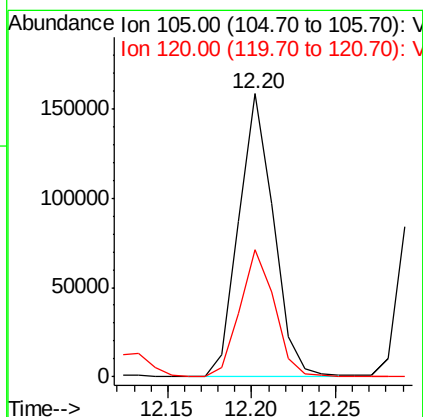
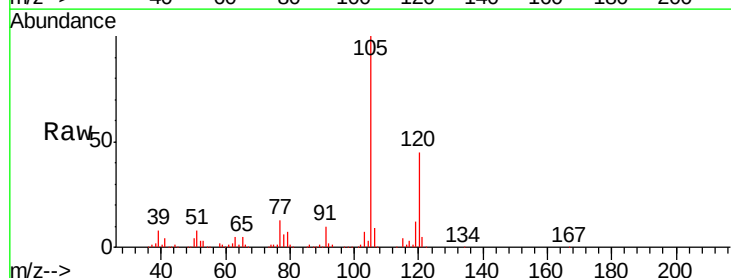
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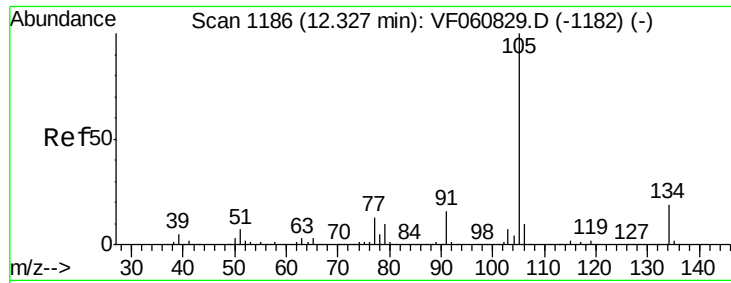
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#84
 1,2,4-Trimethylbenzene
 Concen: 23.035 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	227310		
120	44.9	23.8	71.5	





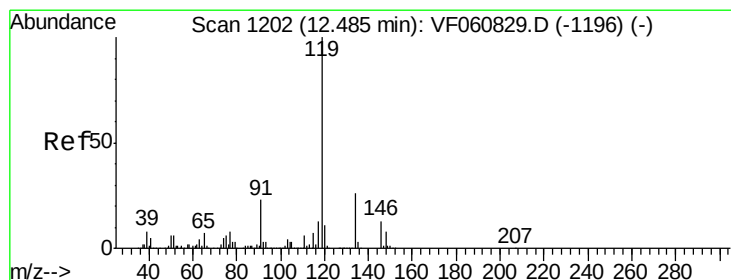
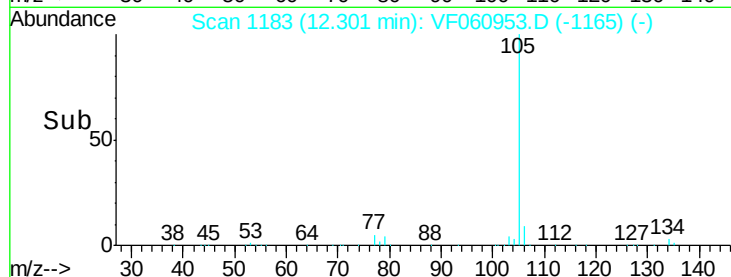
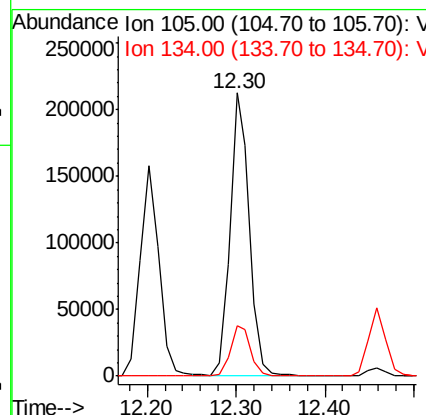
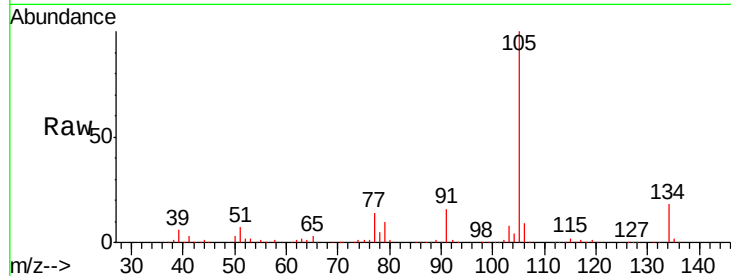
#85
 sec-Butylbenzene
 Concen: 23.590 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion:105 Resp: 325255
 Ion Ratio Lower Upper
 105 100
 134 17.6 9.5 28.5

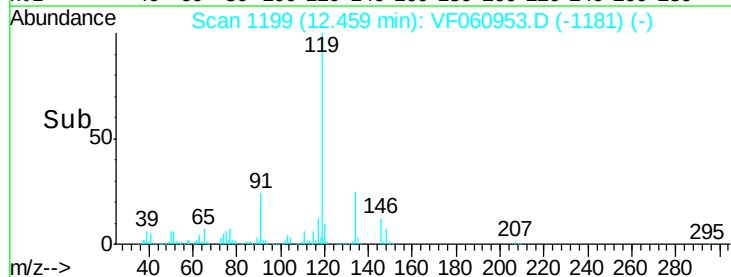
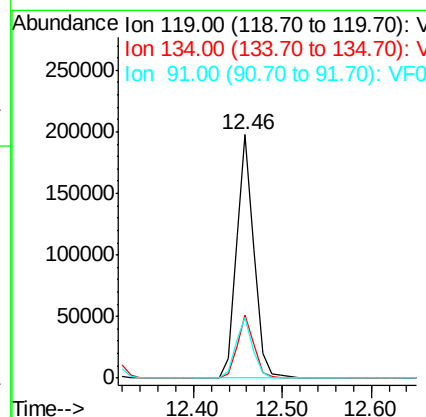
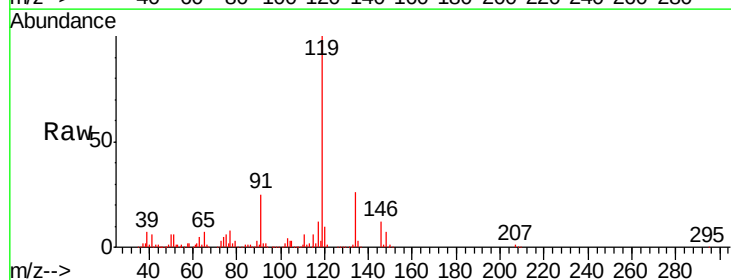
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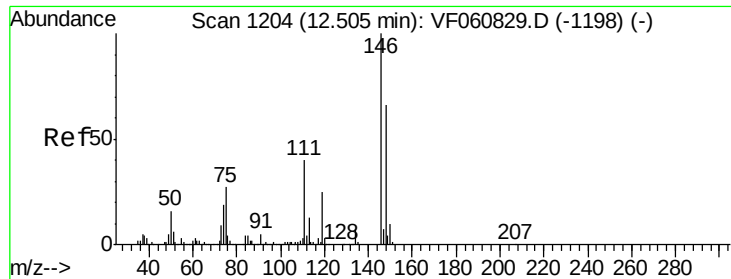
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#86
 p-Isopropyltoluene
 Concen: 23.665 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion:119 Resp: 273554
 Ion Ratio Lower Upper
 119 100
 134 25.8 12.9 38.6
 91 24.9 11.8 35.3





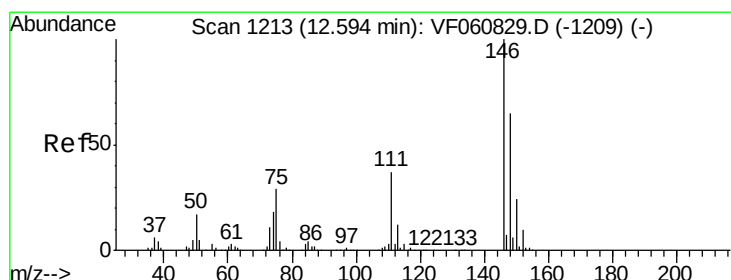
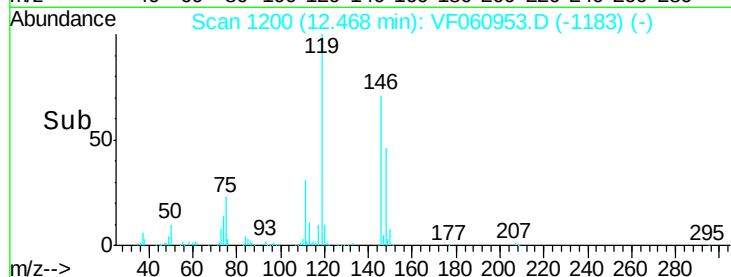
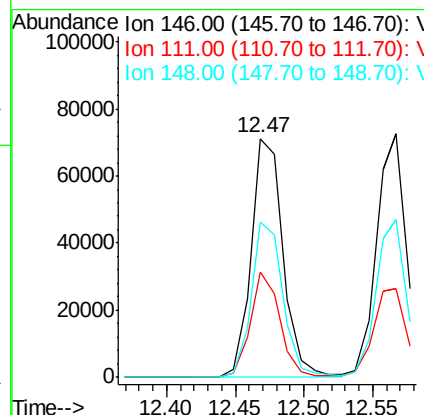
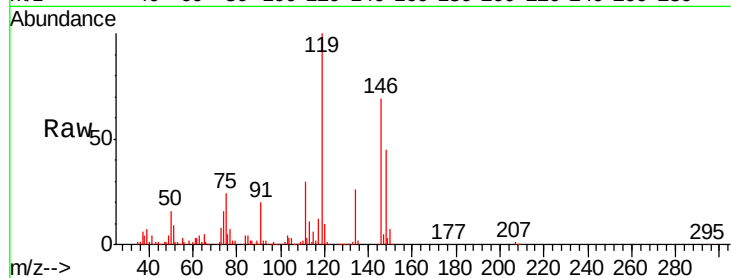
#87
 1,3-Dichlorobenzene
 Concen: 22.789 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. -0.04 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.9	20.0	59.9
148	65.0	32.9	98.6

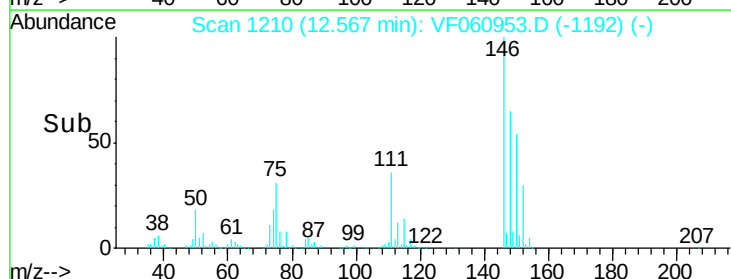
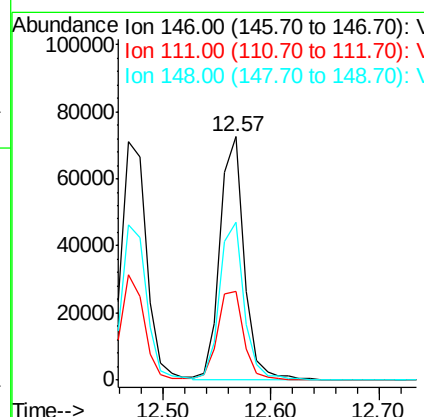
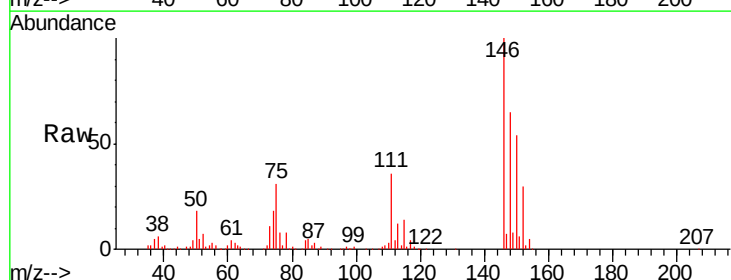
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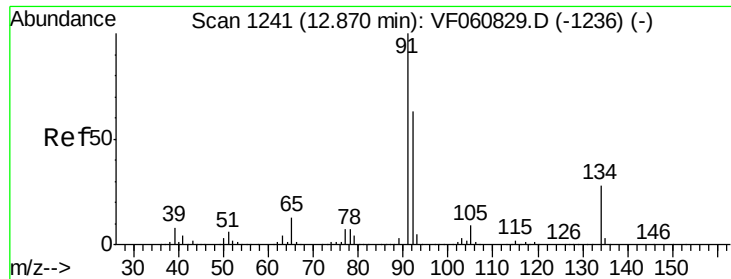
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#88
 1,4-Dichlorobenzene
 Concen: 22.726 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.9	56.7
148	64.7	32.3	96.9





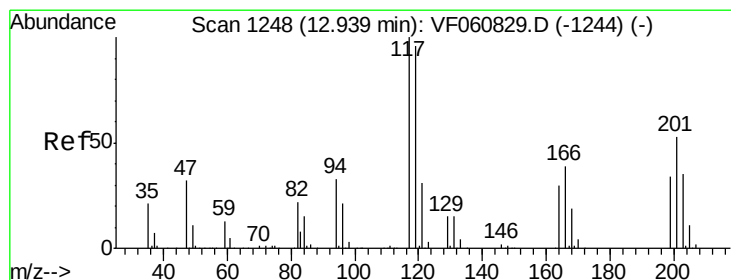
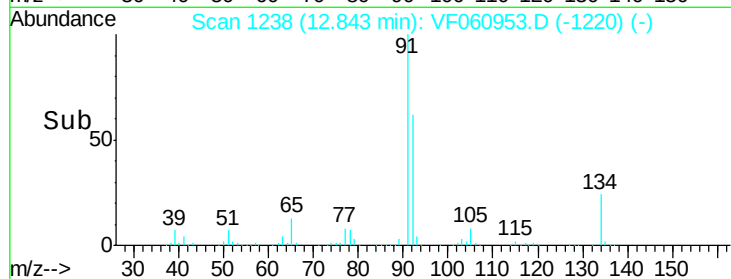
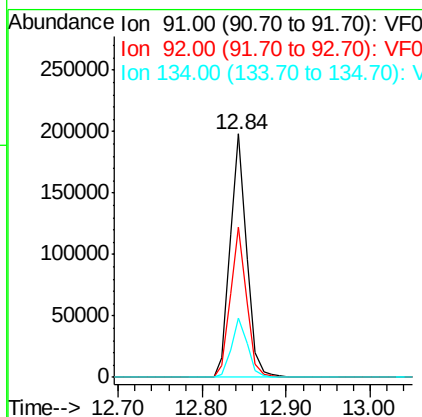
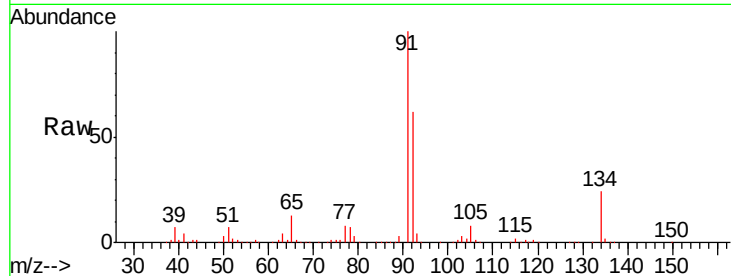
#89
n-Butylbenzene
Concen: 23.157 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.7	31.6	94.7
134	24.2	13.8	41.4

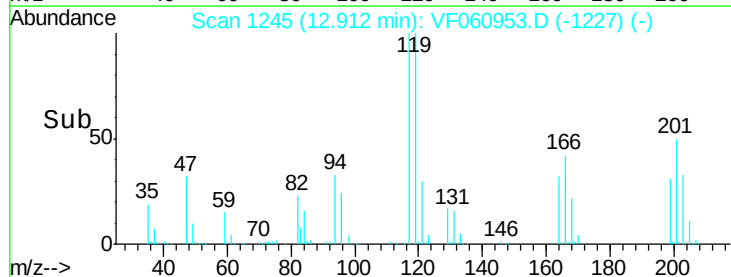
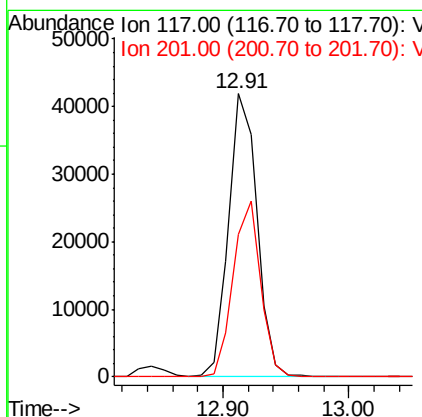
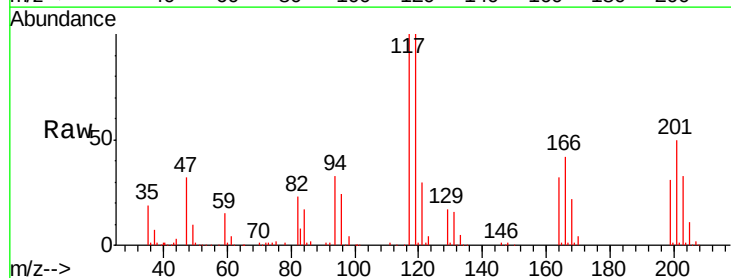
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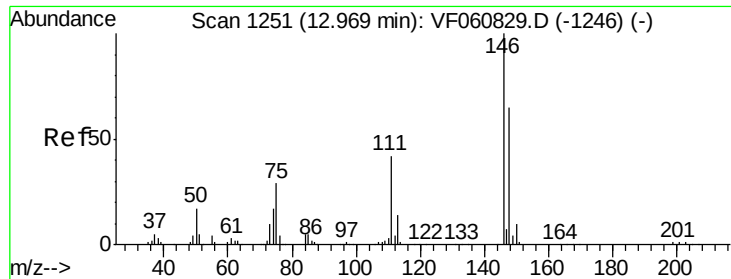
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#90
Hexachloroethane
Concen: 23.458 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	50.4	26.7	80.1





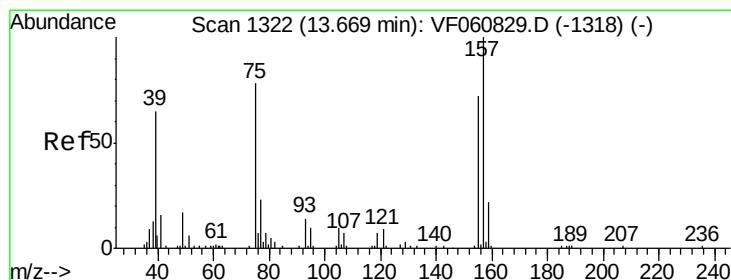
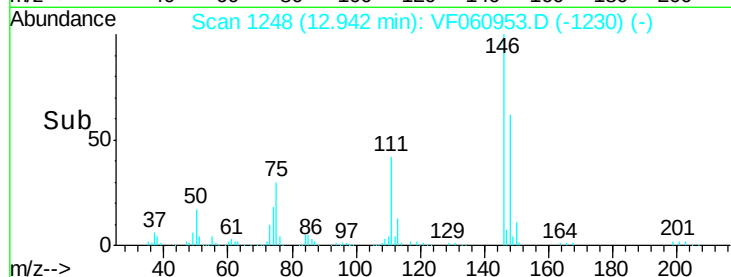
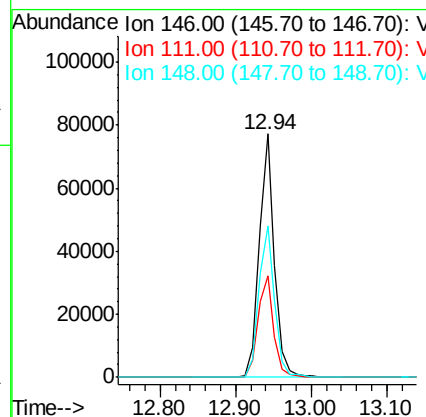
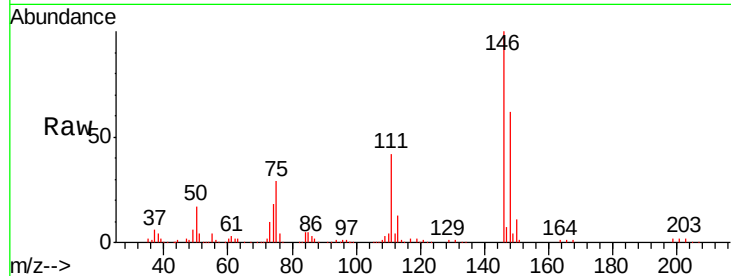
#91
 1,2-Dichlorobenzene
 Concen: 22.717 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.2	63.6
148	62.1	32.5	97.5

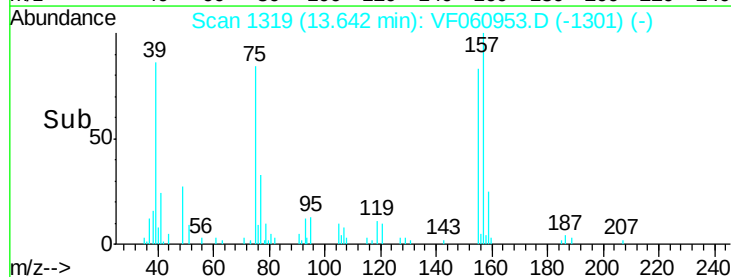
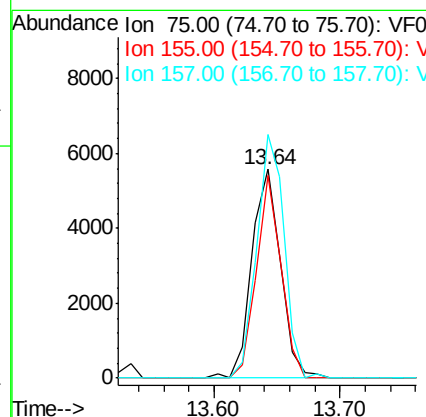
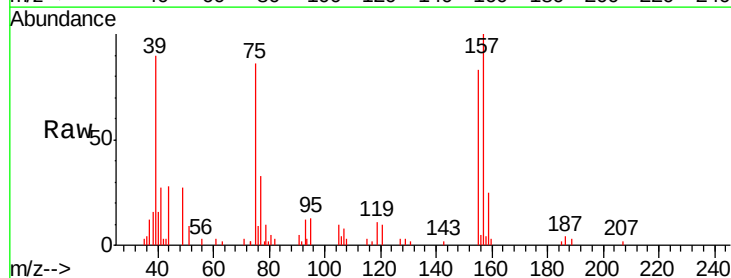
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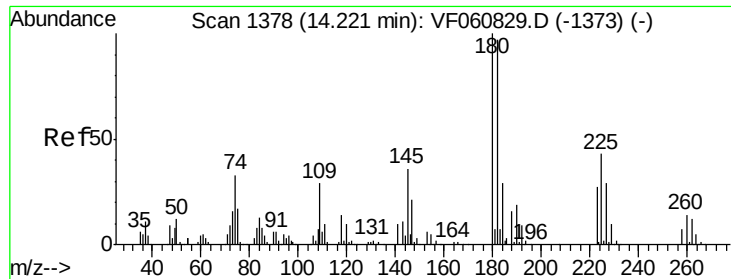
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.820 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.5	45.6	136.9
157	116.7	63.8	191.5





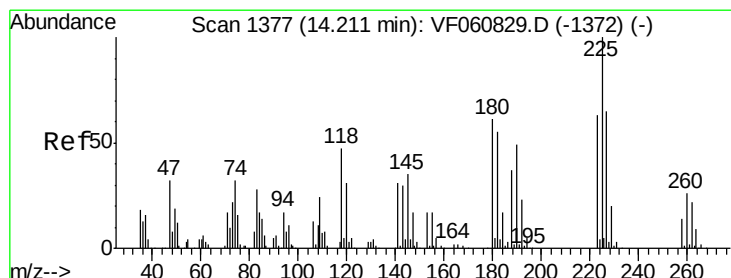
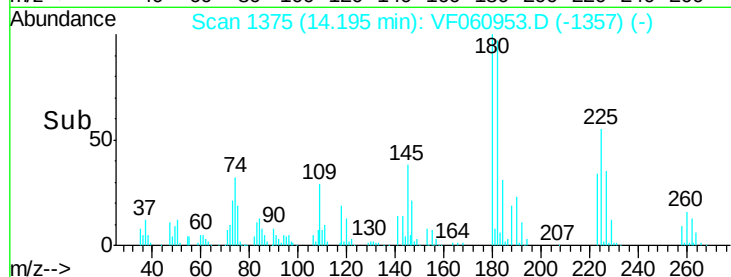
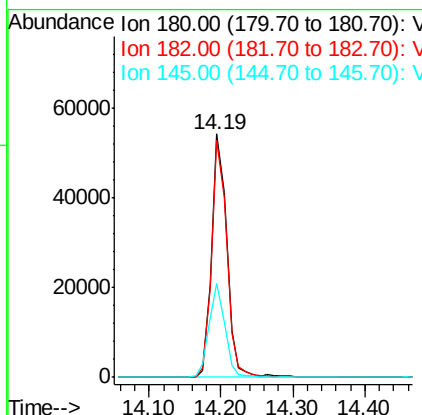
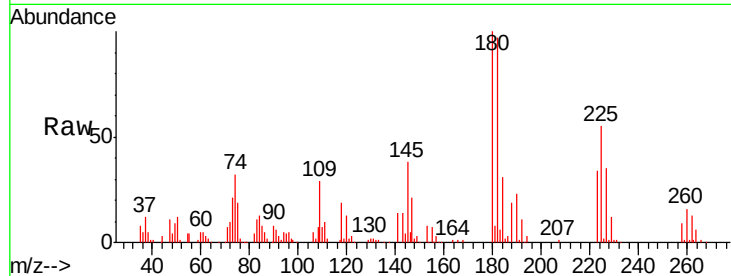
#93
 1,2,4-Trichlorobenzene
 Concen: 23.694 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1210SBS01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.5	145.5
145	38.4	18.1	54.3

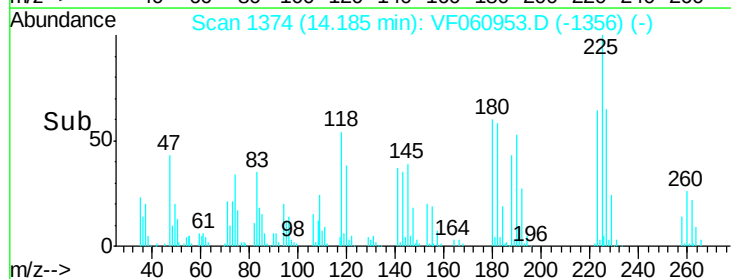
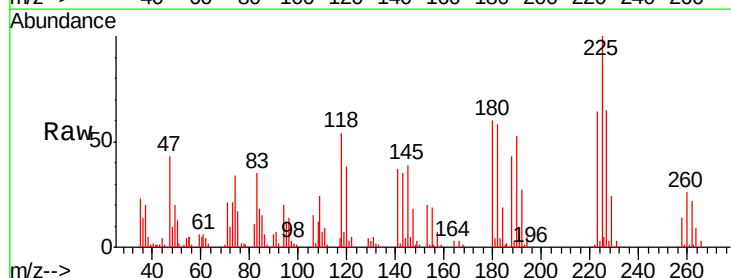
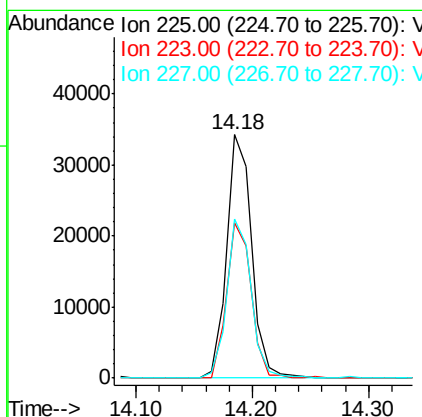
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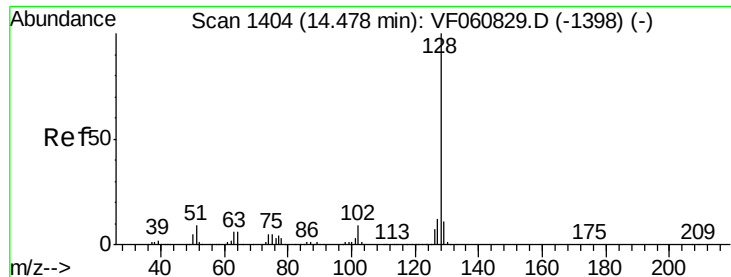
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#94
 Hexachlorobutadiene
 Concen: 22.757 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF060953.D
 Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.4	94.3
227	65.3	32.5	97.5





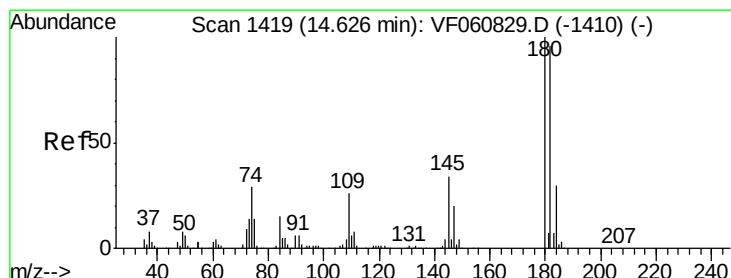
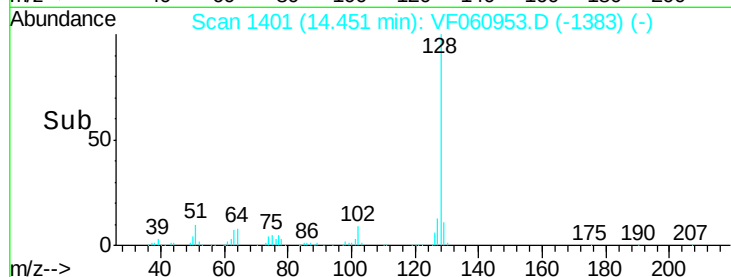
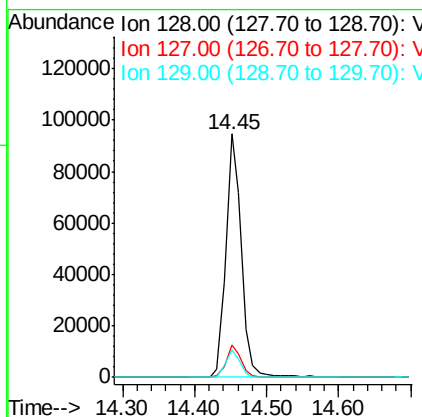
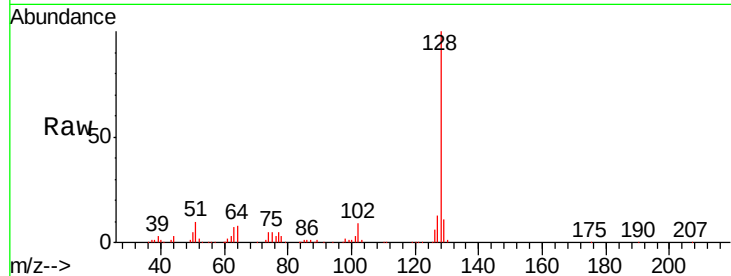
#95
Naphthalene
Concen: 19.391 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Instrument :
MSVOA_F
ClientSampleId :
VF1210SBSD01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.9	14.9
129	11.3	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
12/11/2018 4:15:43 PM



#96
1,2,3-Trichlorobenzene
Concen: 23.855 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.03 min
Lab File: VF060953.D
Acq: 10 Dec 2018 14:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.8
145	34.1	17.2	51.5

