

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF031219\
 Data File : VF061904.D
 Acq On : 12 Mar 2019 13:47
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/13/2019 4:41:02 PM

Quant Time: Mar 13 02:14:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	312637	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	453031	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	400123	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	212939	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	124501	54.68	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	109.36%	
35) Dibromofluoromethane	4.09	113	170575	53.95	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	107.90%	
50) Toluene-d8	7.54	98	498983	53.10	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.20%	
62) 4-Bromofluorobenzene	11.40	95	195184	53.02	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.04%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	170941	44.536	ug/l	92
3) Chloromethane	1.09	50	169207	45.488	ug/l	100
4) Vinyl Chloride	1.14	62	165136	46.765	ug/l	94
5) Bromomethane	1.32	94	115657	48.059	ug/l	99
6) Chloroethane	1.39	64	82427	49.106	ug/l	100
7) Trichlorofluoromethane	1.48	101	215580	49.986	ug/l	96
8) Diethyl Ether	1.62	74	48024	48.967	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.83	101	146094	49.883	ug/l	99
10) Methyl Iodide	1.90	142	272857m	48.957	ug/l	
11) Tert butyl alcohol	2.56	59	31751	245.699	ug/l #	91
12) 1,1-Dichloroethene	1.79	96	129729	48.518	ug/l	92
13) Acrolein	1.99	56	41440	253.076	ug/l	93
14) Allyl chloride	2.09	41	163135	55.382	ug/l	95
15) Acrylonitrile	2.94	53	99178	241.020	ug/l	97
16) Acetone	2.23	43	149344	313.145	ug/l	93
17) Carbon Disulfide	1.80	76	397043m	47.704	ug/l	
18) Methyl Acetate	2.33	43	63299m	66.662	ug/l	
19) Methyl tert-butyl Ether	2.41	73	225724	49.904	ug/l	100
20) Methylene Chloride	2.17	84	133763m	50.552	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	137156	54.503	ug/l	98
22) Diisopropyl ether	2.79	45	398758	52.041	ug/l	98
23) Vinyl Acetate	3.17	43	829960	242.463	ug/l	100
24) 1,1-Dichloroethane	2.86	63	237048	51.759	ug/l	100
25) 2-Butanone	4.31	43	232031	239.185	ug/l	92
26) 2,2-Dichloropropane	3.58	77	104558	51.141	ug/l	98
27) cis-1,2-Dichloroethene	3.46	96	170592	48.930	ug/l	97
28) Bromochloromethane	3.69	49	101509	50.846	ug/l #	90
29) Tetrahydrofuran	4.05	42	96696	231.125	ug/l	97
30) Chloroform	3.84	83	264373	50.538	ug/l	96
31) Cyclohexane	3.68	56	222282m	46.338	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	150095	46.549	ug/l	99
36) 1,1-Dichloropropene	4.26	75	219601	51.316	ug/l	96
37) Ethyl Acetate	4.09	43	82663	46.021	ug/l	90
38) Carbon Tetrachloride	3.97	117	156755	51.745	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	254981	50.445	ug/l	97
40) Benzene	4.61	78	567208	50.708	ug/l	99
41) Methacrylonitrile	4.73	41	46217	46.963	ug/l #	87
42) 1,2-Dichloroethane	4.93	62	137845	49.449	ug/l	98
43) Isopropyl Acetate	6.94	43	97054	43.834	ug/l #	95
44) Trichloroethene	5.48	130	170154	48.948	ug/l	97
45) 1,2-Dichloropropane	6.22	63	136592	51.352	ug/l	94
46) Dibromomethane	6.07	93	80594	48.143	ug/l	98
47) Bromodichloromethane	6.37	83	186116	50.324	ug/l	95
48) Methyl methacrylate	6.70	41	65797	46.956	ug/l	93
49) 1,4-Dioxane	6.69	88	12523	977.628	ug/l #	82
51) 4-Methyl-2-Pentanone	8.24	43	362491	236.882	ug/l	95
52) Toluene	7.61	92	332722	50.281	ug/l	96
53) t-1,3-Dichloropropene	8.26	75	149427	48.947	ug/l	99
54) cis-1,3-Dichloropropene	7.28	75	214583	50.960	ug/l	98
55) 1,1,2-Trichloroethane	8.48	97	92904	48.728	ug/l	96
56) Ethyl methacrylate	8.61	69	103935	48.370	ug/l	99
57) 1,3-Dichloropropane	8.83	76	152608	48.944	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.27	63	85066	250.261	ug/l	92
59) 2-Hexanone	9.47	43	277061	250.972	ug/l	98
60) Dibromochloromethane	8.69	129	130637	48.075	ug/l	99
61) 1,2-Dibromoethane	8.97	107	100679	48.019	ug/l	94
64) Tetrachloroethene	8.13	164	145649	47.373	ug/l	97
65) Chlorobenzene	9.78	112	369903	48.119	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.92	131	149740	50.276	ug/l	99
67) Ethyl Benzene	9.89	91	634411	49.792	ug/l	97
68) m/p-Xylenes	10.11	106	470509	96.396	ug/l	93
69) o-Xylene	10.70	106	254760	48.471	ug/l	99
70) Styrene	10.77	104	339179	45.855	ug/l	98
71) Bromoform	10.76	173	73962	46.986	ug/l	94
73) Isopropylbenzene	11.11	105	735535	50.174	ug/l	98
74) N-amyl acetate	11.36	43	164254	48.670	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	117640	48.283	ug/l	91
76) 1,2,3-Trichloropropane	11.78	75	78963	47.485	ug/l	97
77) Bromobenzene	11.48	156	165646	46.951	ug/l	90
78) n-propylbenzene	11.58	91	795468	48.050	ug/l	97
79) 2-Chlorotoluene	11.71	91	460886	48.695	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	560220	47.598	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	41166m	54.138	ug/l	
82) 4-Chlorotoluene	11.89	91	467384	48.278	ug/l	95
83) tert-Butylbenzene	12.12	119	614796	49.192	ug/l	91
84) 1,2,4-Trimethylbenzene	12.19	105	571851	49.562	ug/l	100
85) sec-Butylbenzene	12.29	105	816563	50.207	ug/l	98
86) p-Isopropyltoluene	12.45	119	698485	50.525	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	330379	49.316	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	317769	49.173	ug/l	95
89) n-Butylbenzene	12.84	91	658933	49.874	ug/l	98
90) Hexachloroethane	12.90	117	170840	51.341	ug/l	89
91) 1,2-Dichlorobenzene	12.93	146	309681	48.791	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	19845	47.138	ug/l	93

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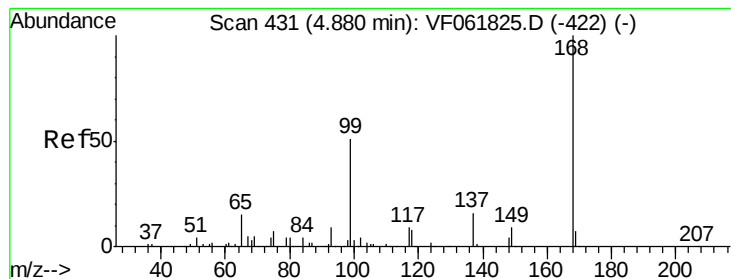
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	216784	48.718	ug/l	95
94) Hexachlorobutadiene	14.18	225	142426	46.235	ug/l	99
95) Naphthalene	14.44	128	393318	49.628	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	206406	50.239	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 168 Resp: 312637

Ion Ratio Lower Upper

168 100

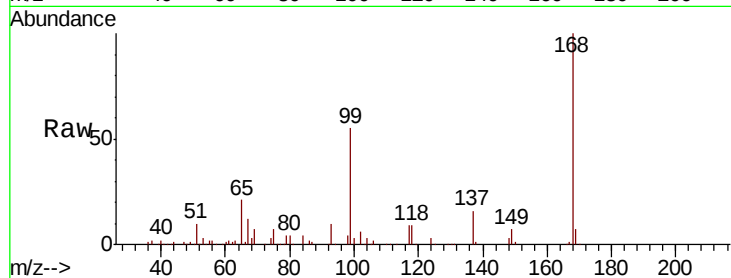
99 54.6 40.8 61.2

Manual Integrations

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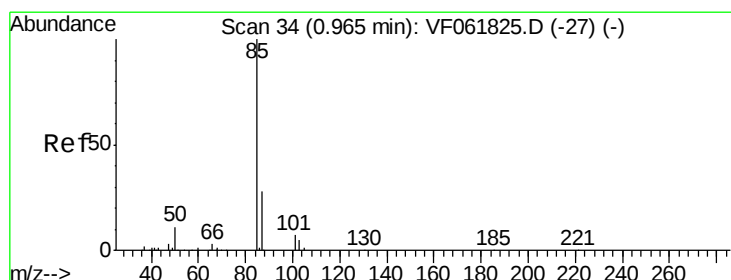
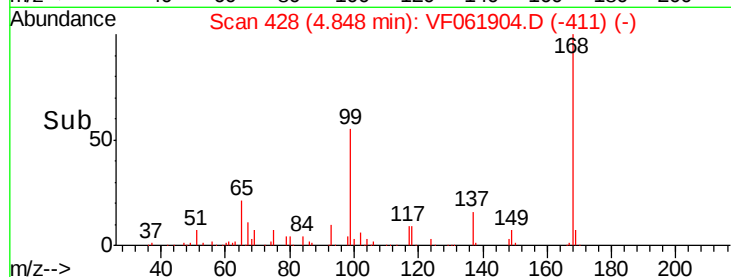
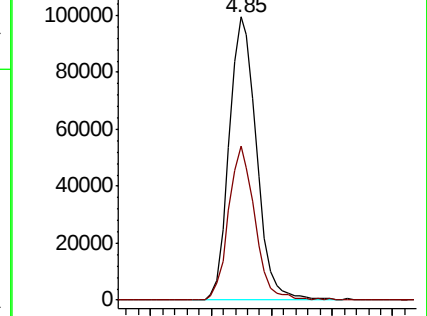
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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 44.536 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061904.D

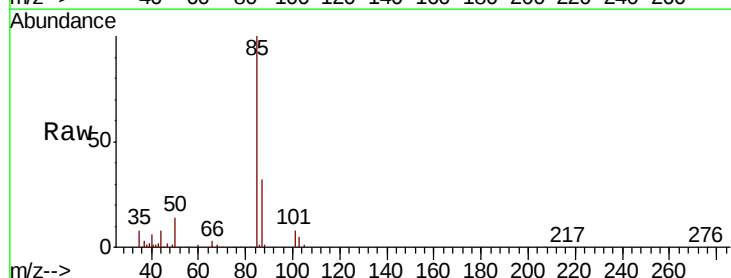
Acq: 12 Mar 2019 13:47

Tgt Ion: 85 Resp: 170941

Ion Ratio Lower Upper

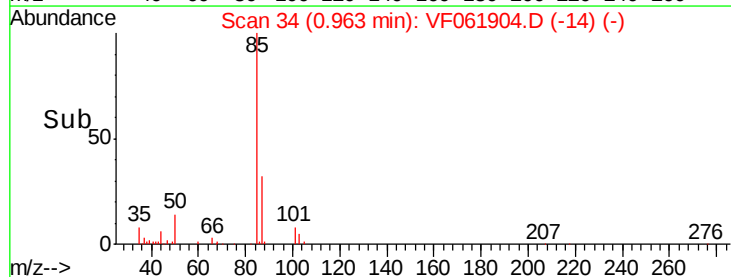
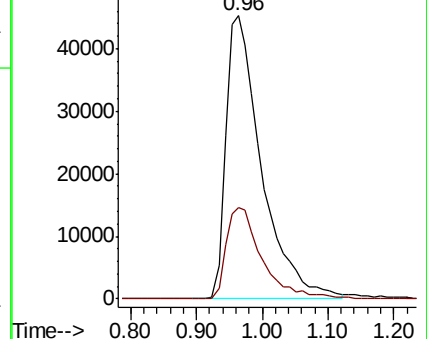
85 100

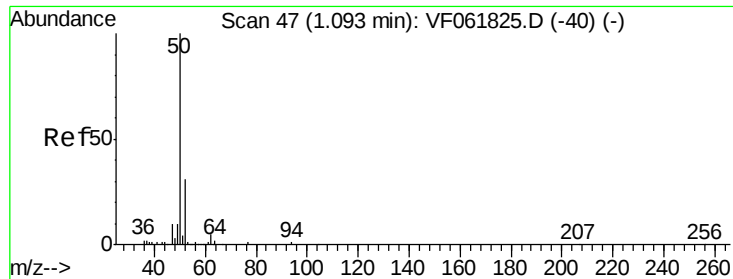
87 32.3 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





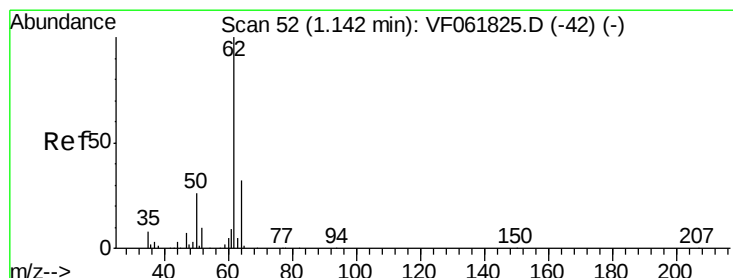
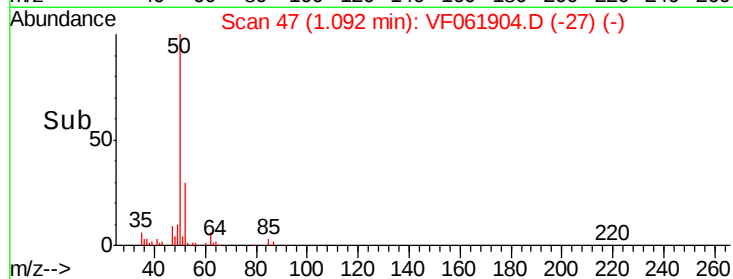
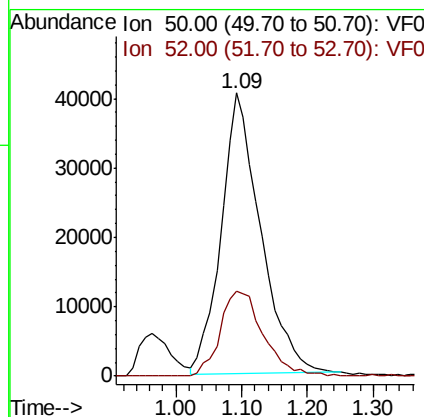
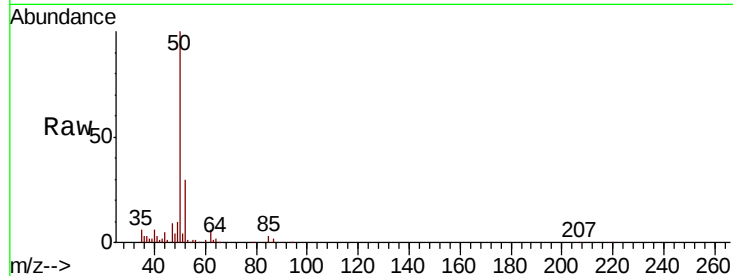
#3
Chloromethane
Concen: 45.488 ug/l
RT: 1.09 min Scan# 47
Delta R.T. -0.00 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 169207
Ion Ratio Lower Upper
50 100
52 29.9 23.8 35.8

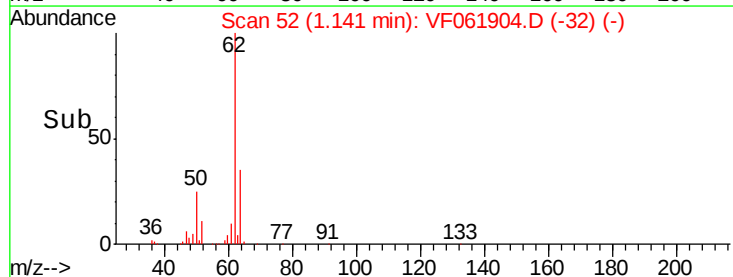
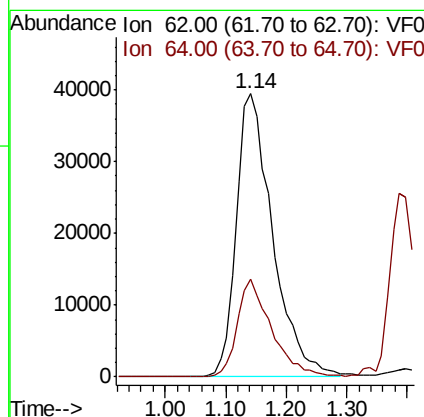
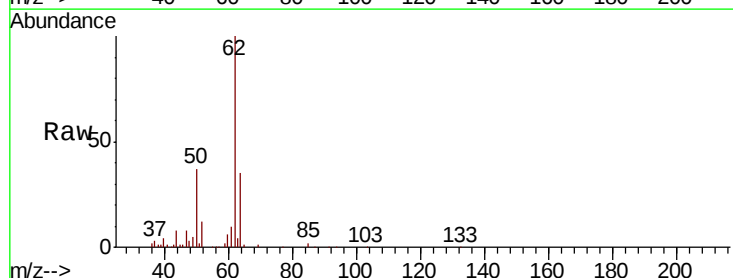
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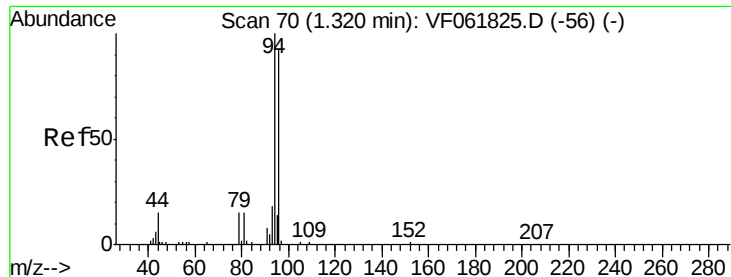
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#4
Vinyl Chloride
Concen: 46.765 ug/l
RT: 1.14 min Scan# 52
Delta R.T. -0.00 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion: 62 Resp: 165136
Ion Ratio Lower Upper
62 100
64 34.7 25.2 37.8





#5

Bromomethane

Concen: 48.059 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 115657

Ion Ratio Lower Upper

94 100

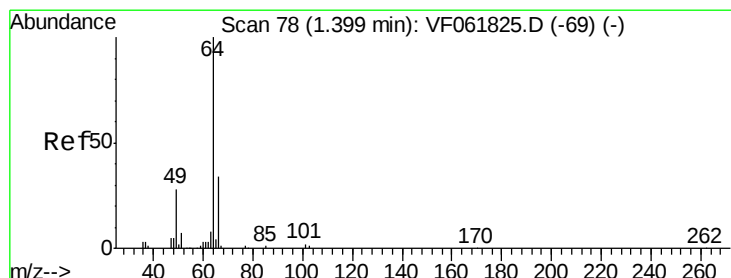
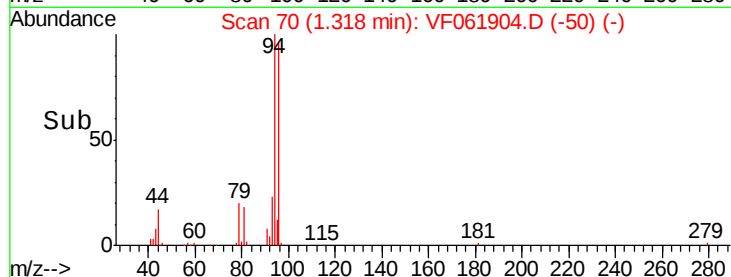
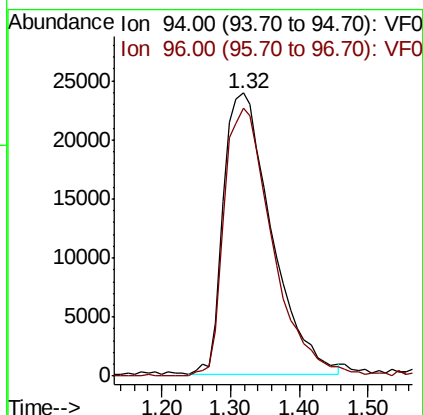
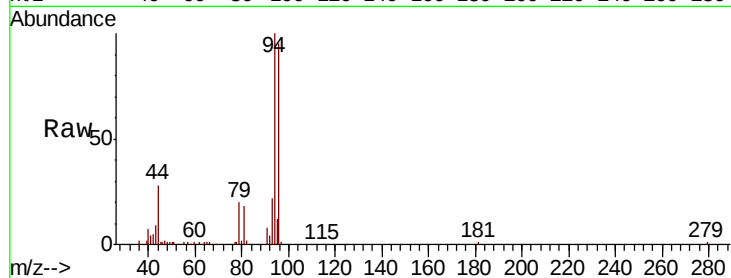
96 94.9 75.2 112.8

Manual Integrations

APPROVED

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#6

Chloroethane

Concen: 49.106 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061904.D

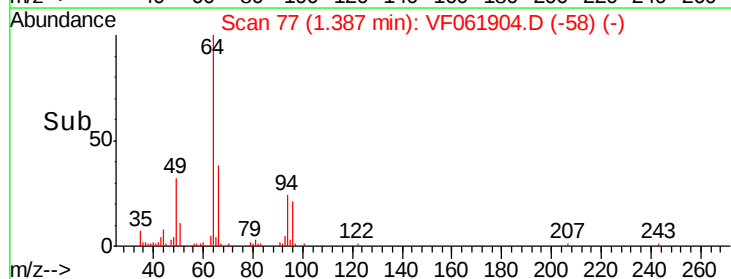
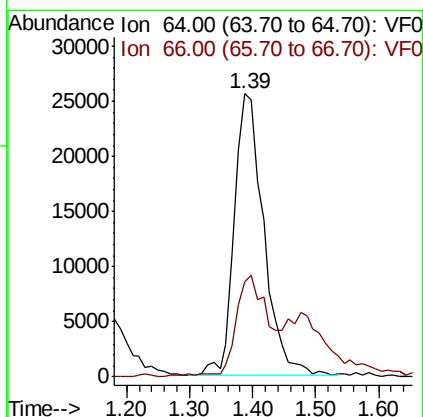
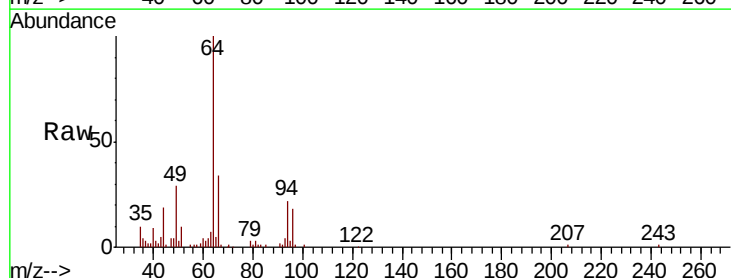
Acq: 12 Mar 2019 13:47

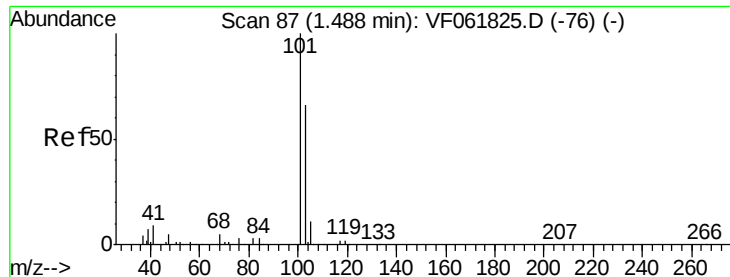
Tgt Ion: 64 Resp: 82427

Ion Ratio Lower Upper

64 100

66 33.6 27.0 40.4





#7

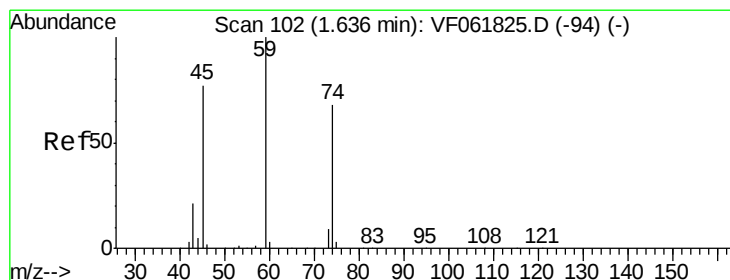
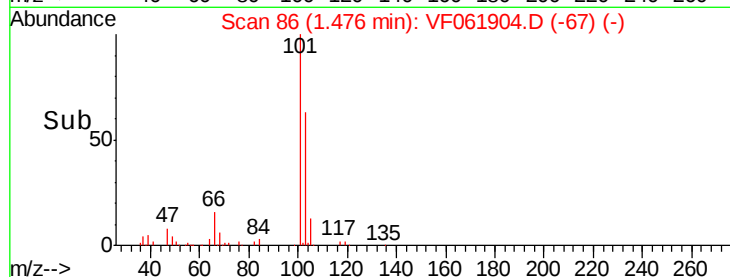
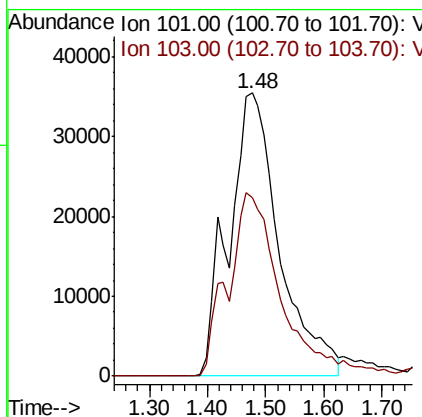
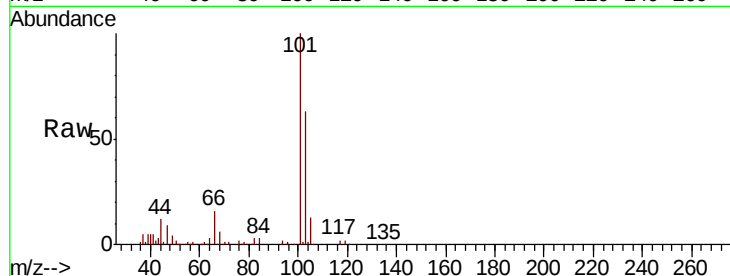
Trichlorofluoromethane
Concen: 49.986 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

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ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.0	52.8	79.2

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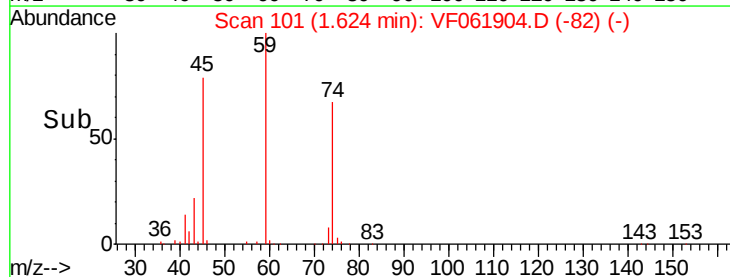
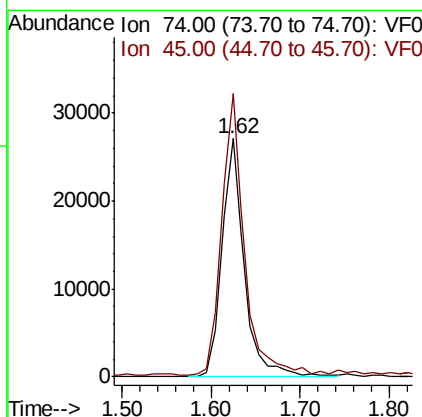
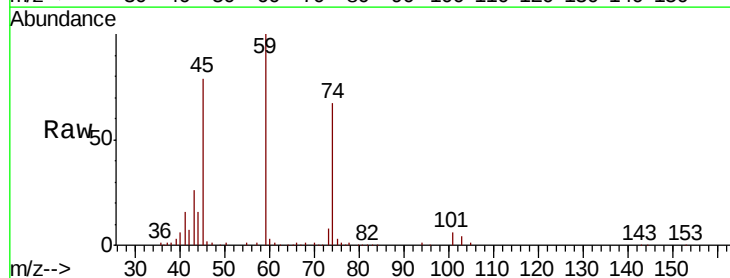
MMDadoda
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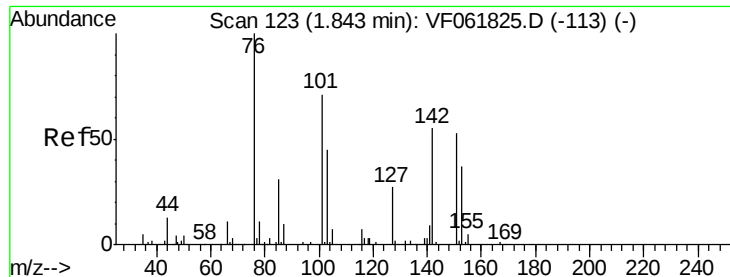


#8

Diethyl Ether
Concen: 48.967 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.8	57.2	171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.883 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

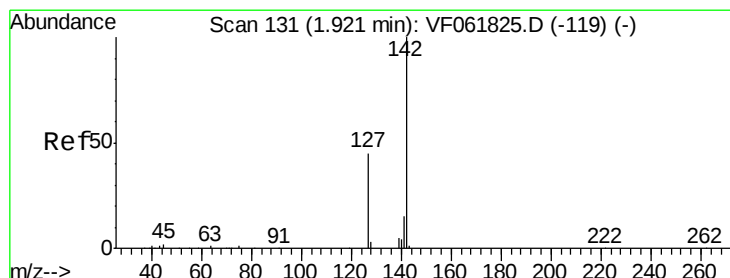
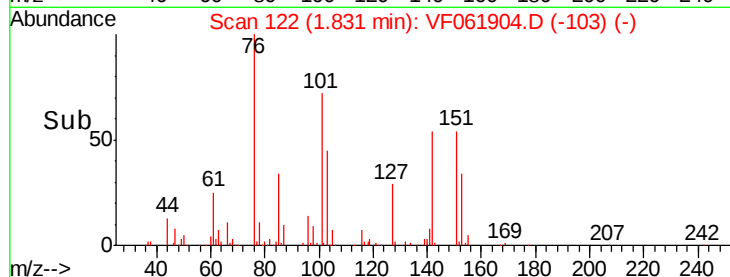
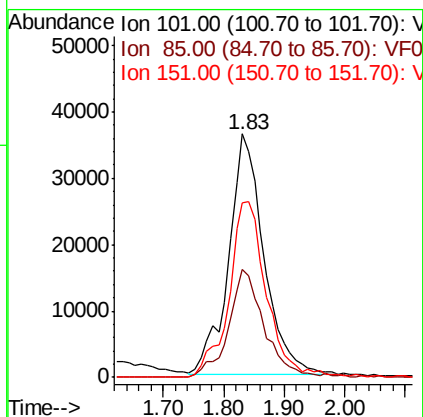
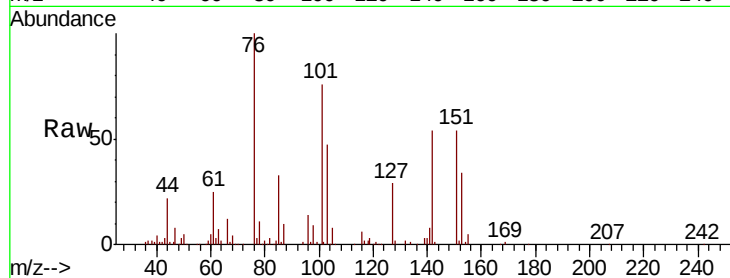
ClientSampleId :

VSTDCCC050

Tgt Ion:	101	Resp:	146094
Ion Ratio	Lower	Upper	
101	100		
85	44.1	34.0	51.0
151	71.6	57.3	85.9

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#10

Methyl Iodide

Concen: 48.957 ug/l m

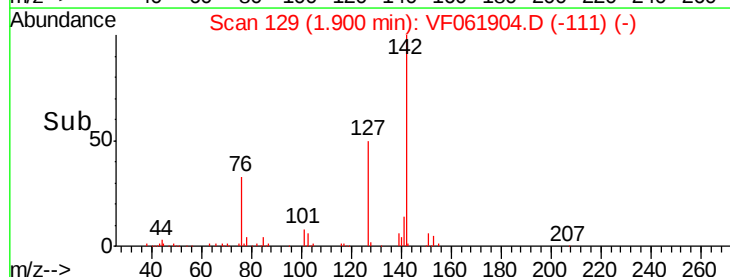
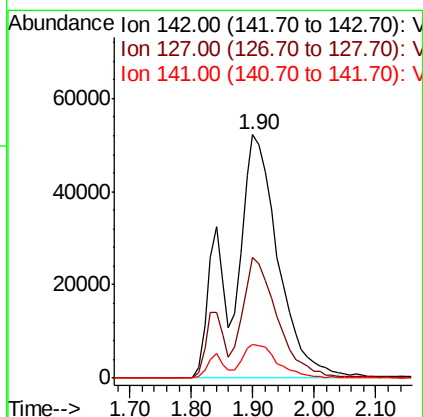
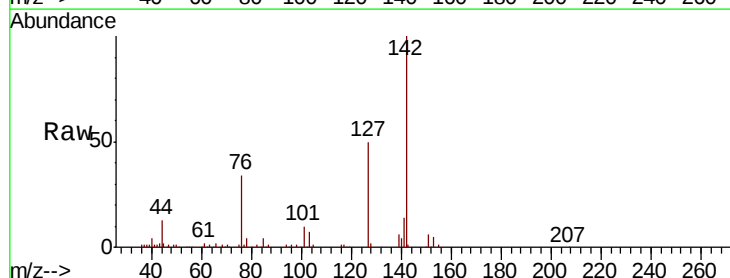
RT: 1.90 min Scan# 129

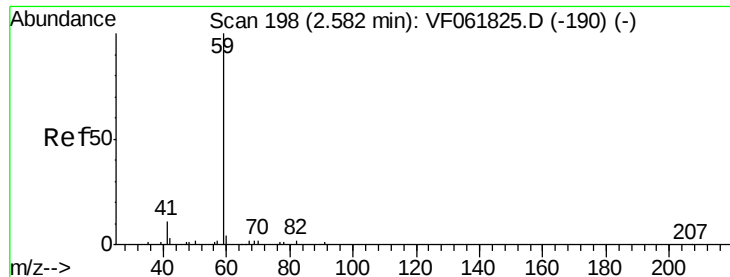
Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	142	Resp:	272857
Ion Ratio	Lower	Upper	
142	100		
127	49.5	35.8	53.6
141	14.0	11.7	17.5





#11

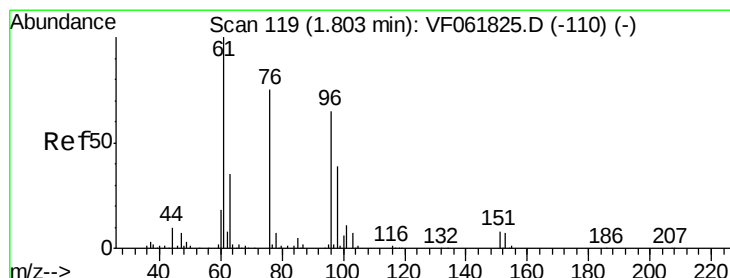
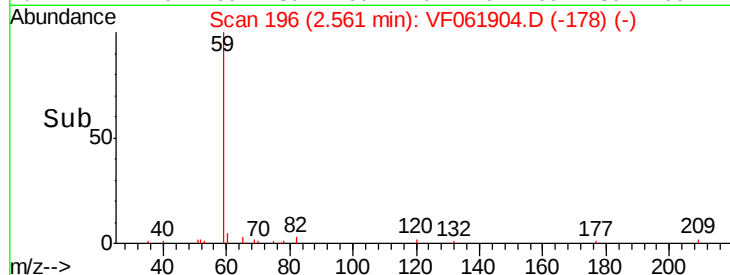
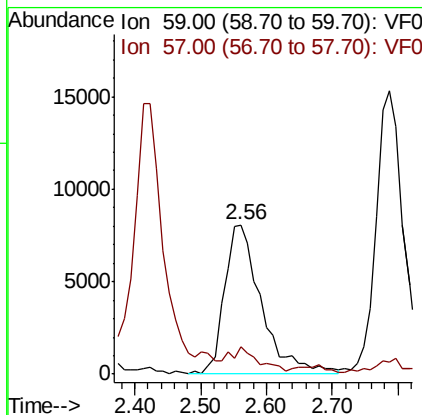
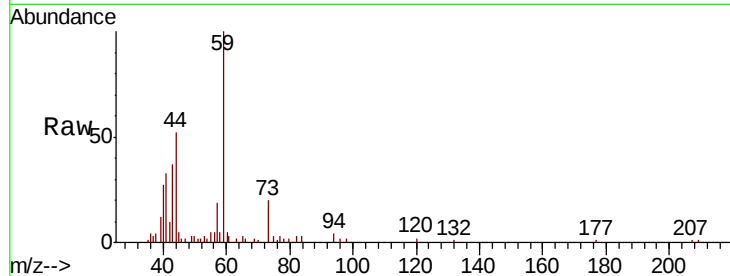
Tert butyl alcohol
Concen: 245.699 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 31751
Ion Ratio Lower Upper
59 100
57 18.6 11.8 17.6#

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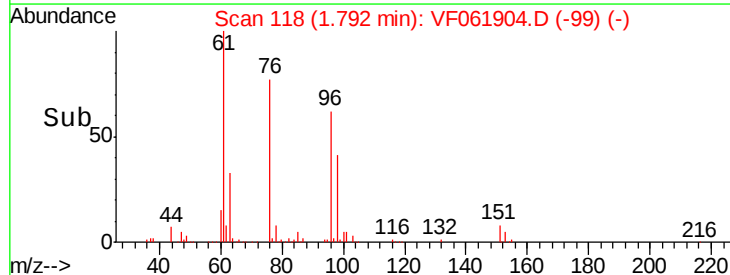
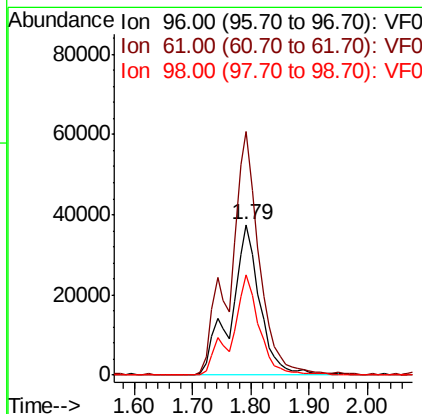
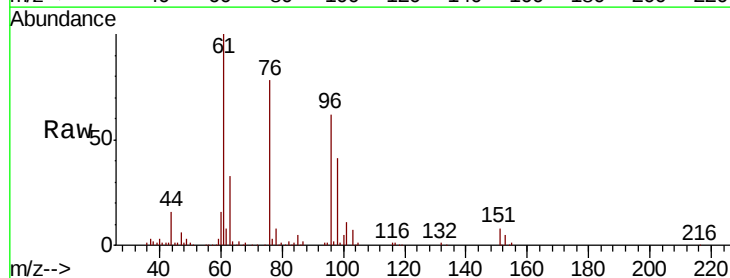
MMDadoda
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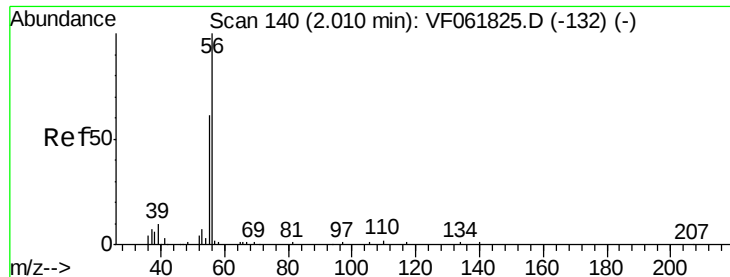


#12

1,1-Dichloroethene
Concen: 48.518 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion: 96 Resp: 129729
Ion Ratio Lower Upper
96 100
61 161.7 122.5 183.7
98 66.5 47.1 70.7





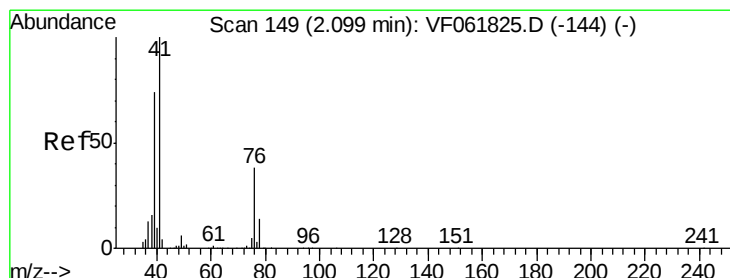
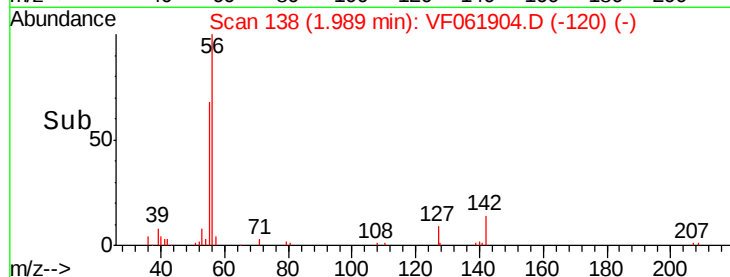
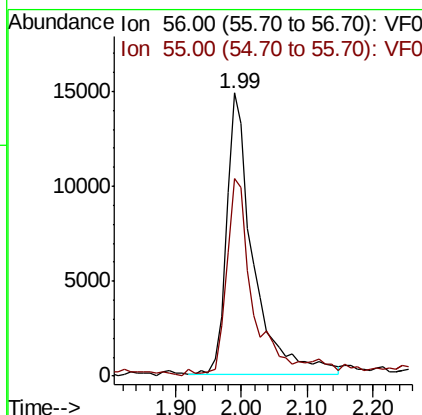
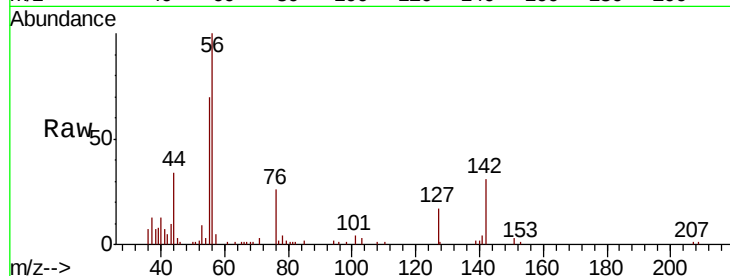
#13
Acrolein
Concen: 253.076 ug/l
RT: 1.99 min Scan# 138
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 41440
Ion Ratio Lower Upper
56 100
55 69.8 51.3 76.9

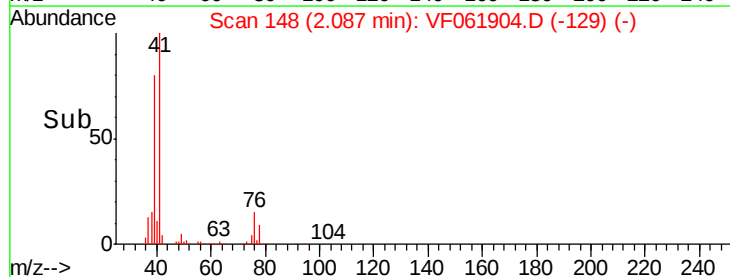
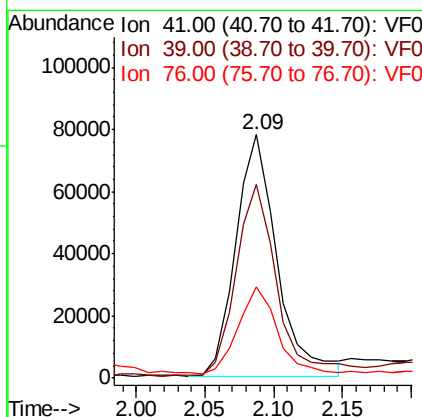
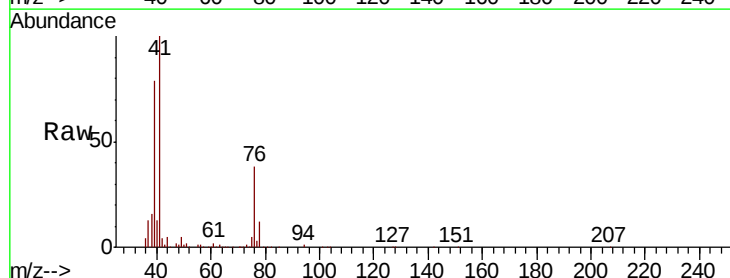
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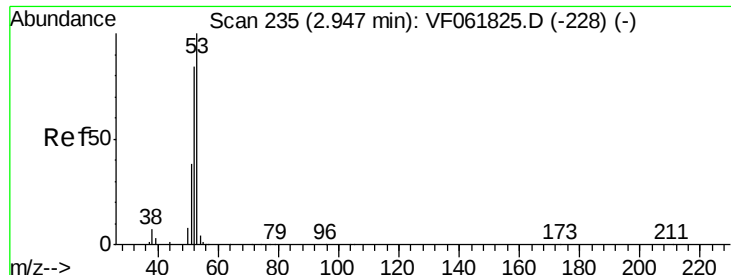
MMDadoda
3/13/2019 4:41:02 PM



#14
Allyl chloride
Concen: 55.382 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion: 41 Resp: 163135
Ion Ratio Lower Upper
41 100
39 79.4 59.6 89.4
76 37.6 32.3 48.5





#15

Acrylonitrile

Concen: 241.020 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

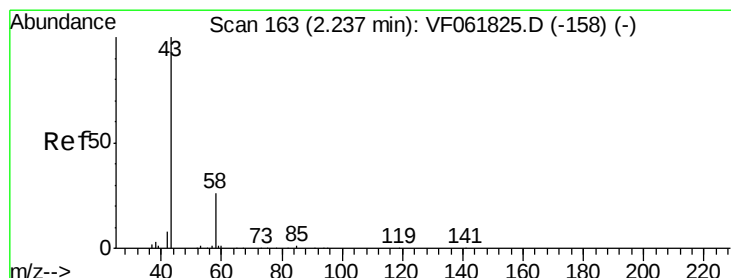
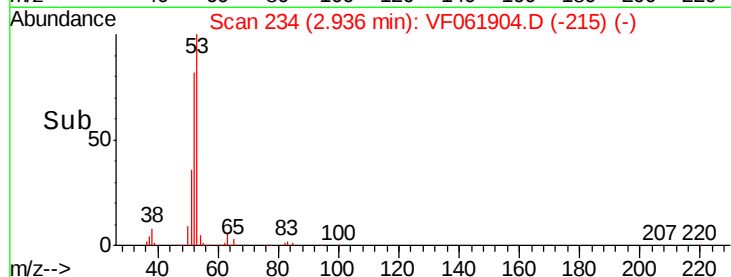
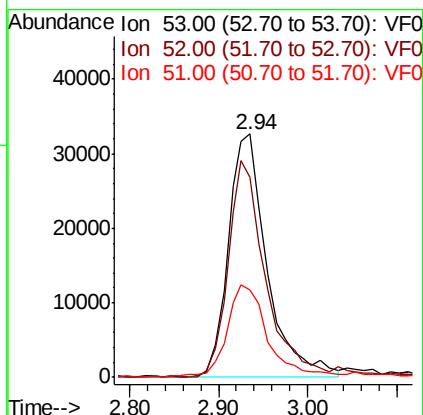
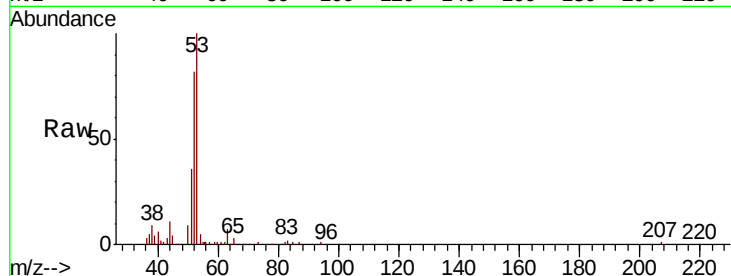
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	99178
Ion	Ratio	Lower	Upper
53	100		
52	82.2	67.4	101.0
51	36.1	30.7	46.1

Manual Integrations
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#16

Acetone

Concen: 313.145 ug/l

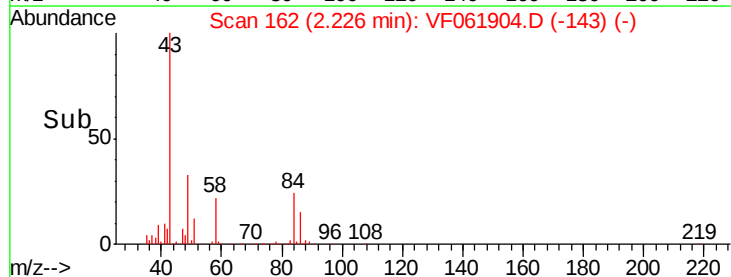
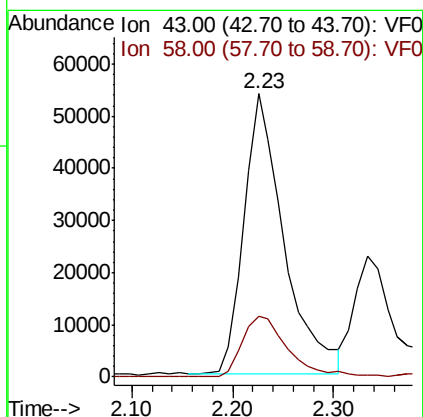
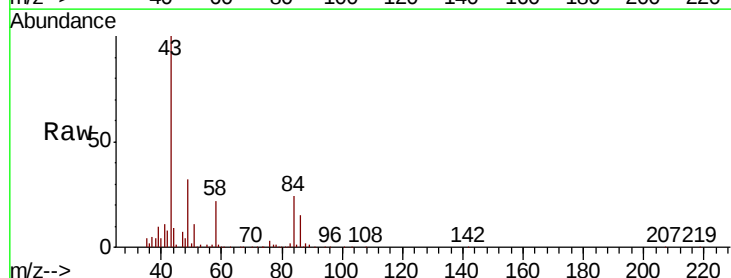
RT: 2.23 min Scan# 162

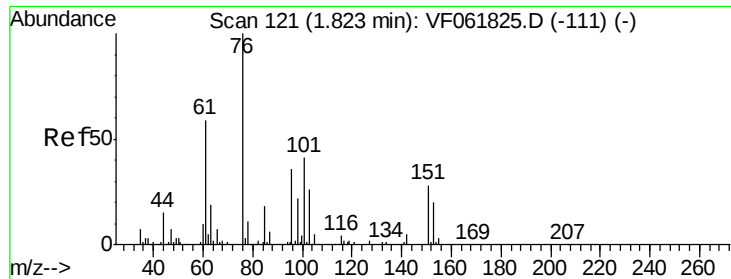
Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	43	Resp:	149344
Ion	Ratio	Lower	Upper
43	100		
58	21.6	20.3	30.5





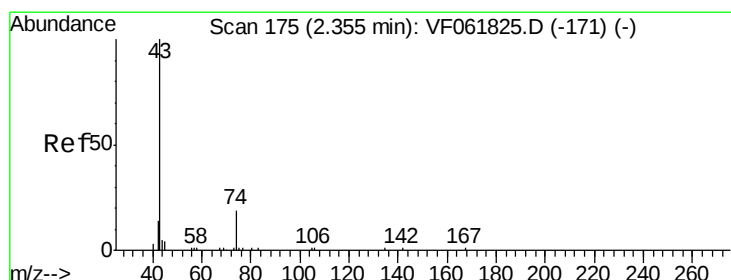
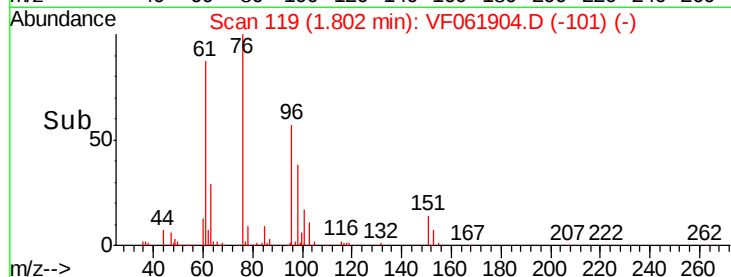
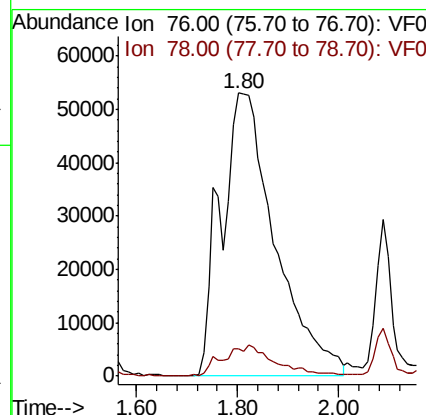
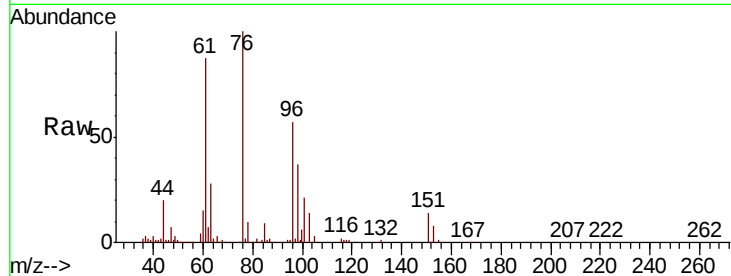
#17
Carbon Disulfide
Concen: 47.704 ug/l m
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 397043
Ion Ratio Lower Upper
76 100
78 9.8 9.1 13.7

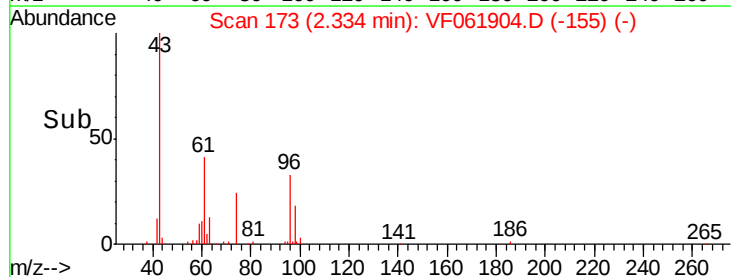
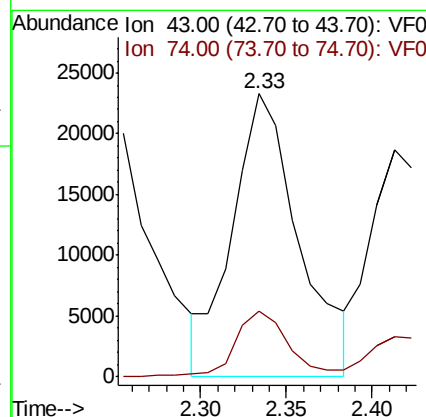
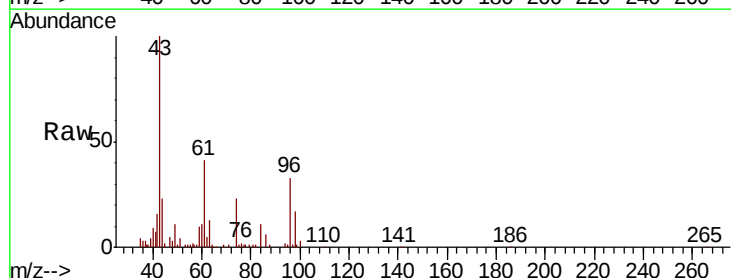
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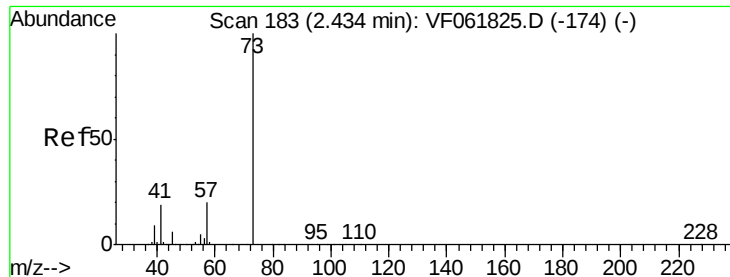
MMDadoda
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#18
Methyl Acetate
Concen: 66.662 ug/l m
RT: 2.33 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion: 43 Resp: 63299
Ion Ratio Lower Upper
43 100
74 23.3 13.2 19.8#





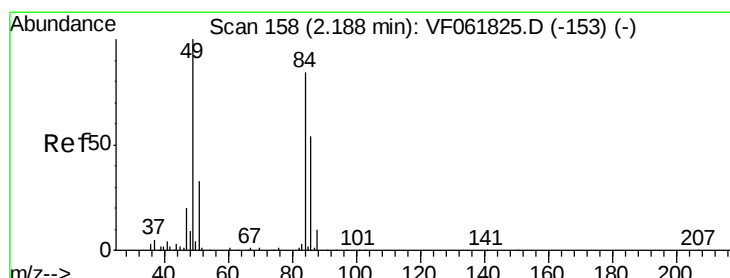
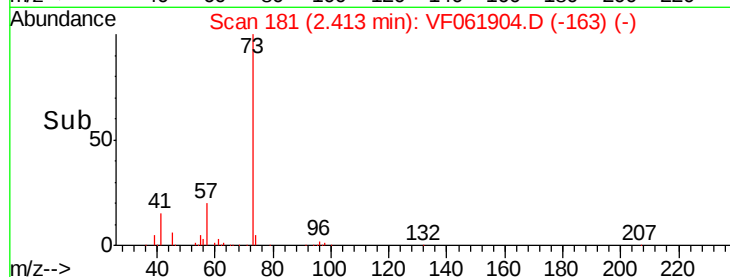
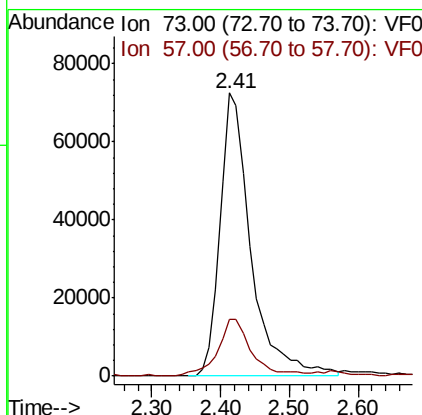
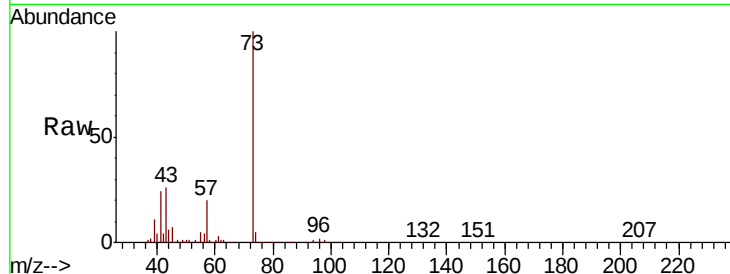
#19
Methyl tert-butyl Ether
Concen: 49.904 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 225724
Ion Ratio Lower Upper
73 100
57 20.2 16.1 24.1

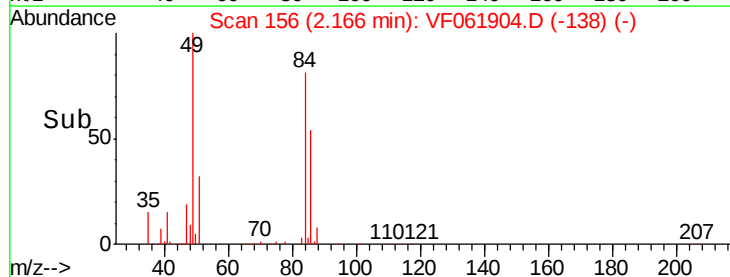
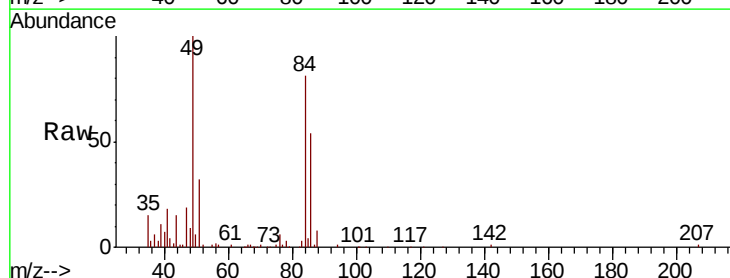
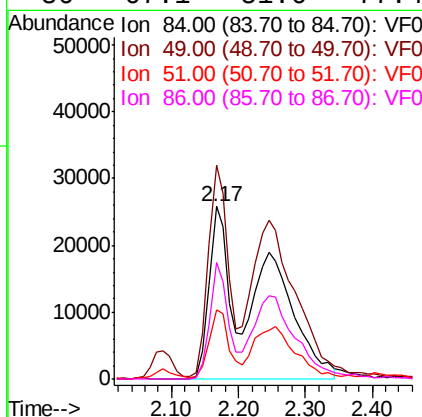
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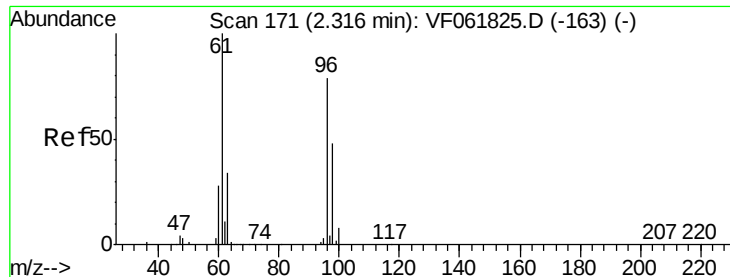
MMDadoda
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#20
Methylene Chloride
Concen: 50.552 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion: 84 Resp: 133763
Ion Ratio Lower Upper
84 100
49 123.7 96.8 145.2
51 40.1 31.8 47.6
86 67.1 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 54.503 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

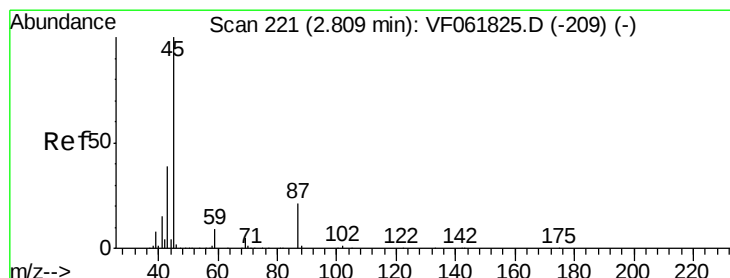
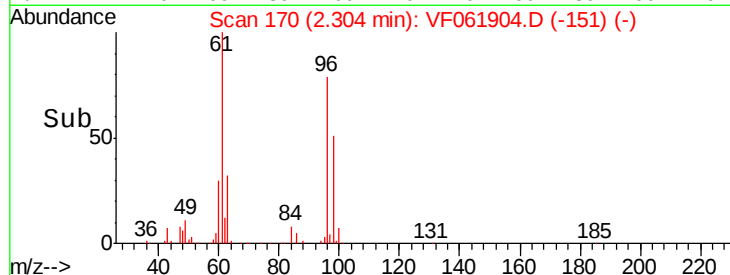
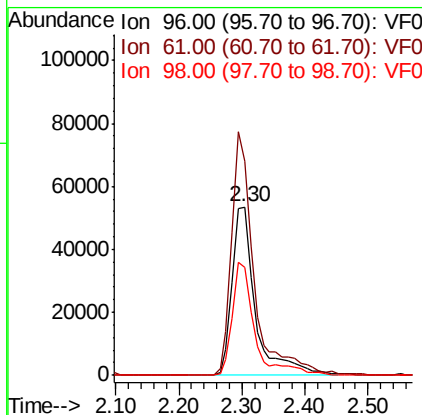
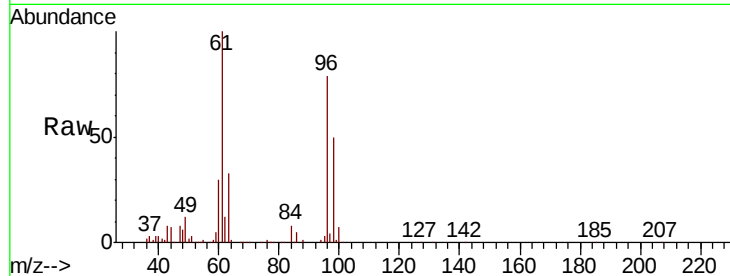
ClientSampleId :

VSTDCCC050

Tgt Ion:	96	Resp:	137156
Ion	Ratio	Lower	Upper
96	100		
61	127.1	101.0	151.6
98	63.9	48.8	73.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 52.041 ug/l

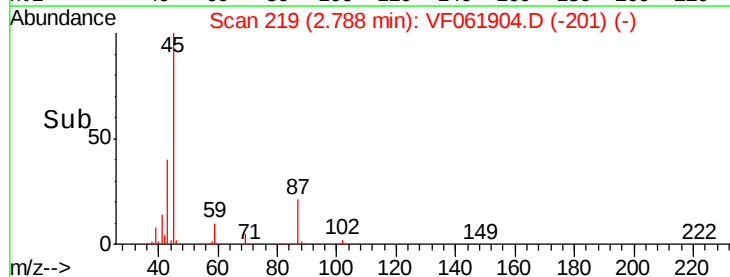
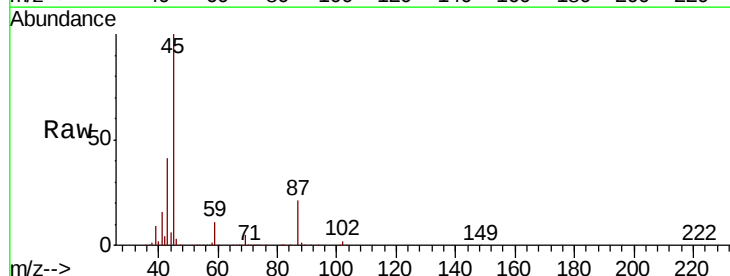
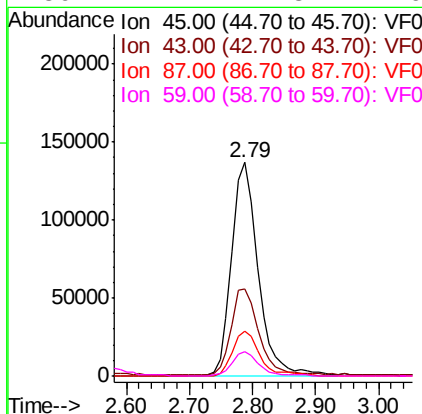
RT: 2.79 min Scan# 219

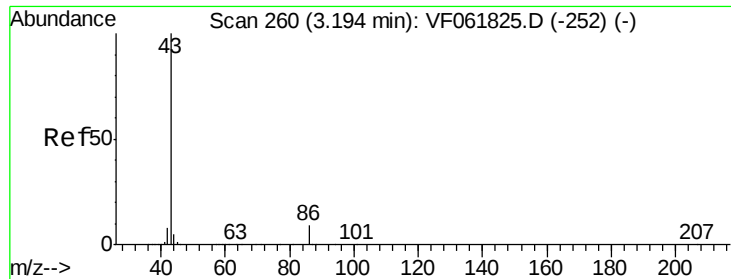
Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	45	Resp:	398758
Ion	Ratio	Lower	Upper
45	100		
43	41.0	31.8	47.8
87	20.9	17.1	25.7
59	11.2	7.8	11.6





#23

Vinyl Acetate

Concen: 242.463 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 829960

Ion Ratio Lower Upper

43 100

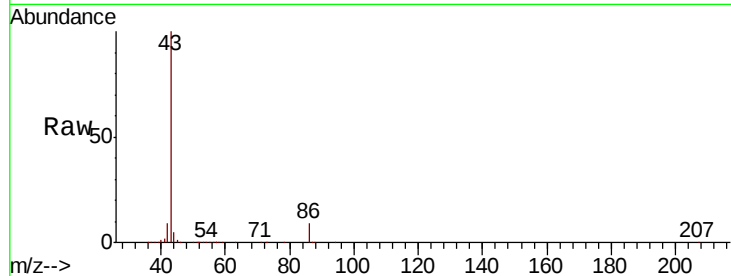
86 8.6 7.0 10.4

Manual Integrations

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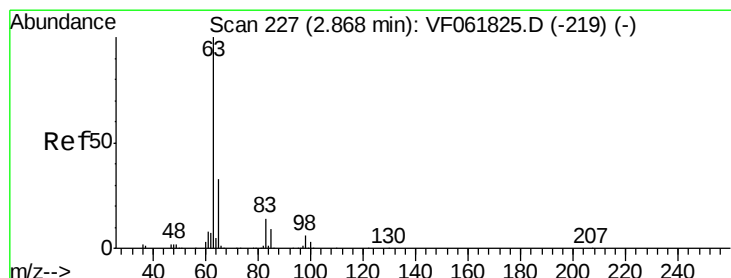
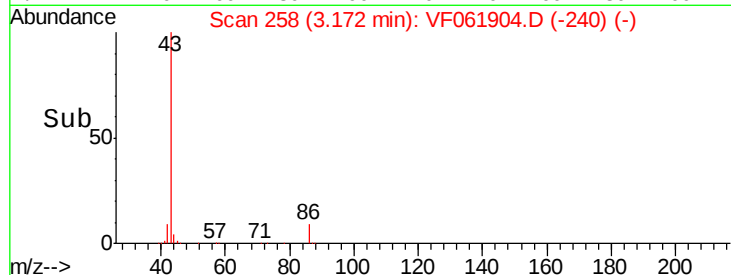
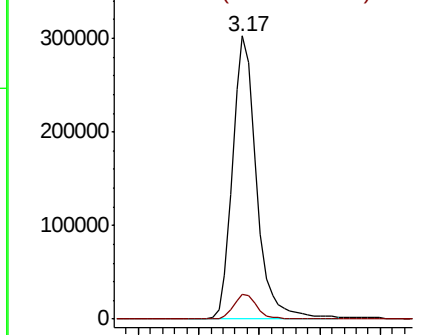
MMDadoda

3/13/2019 4:41:02 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 51.759 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

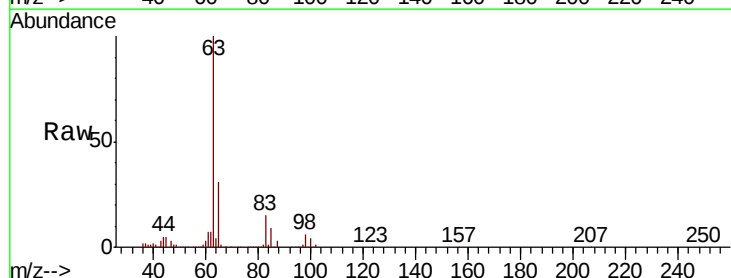
Tgt Ion: 63 Resp: 237048

Ion Ratio Lower Upper

63 100

98 5.9 2.9 8.6

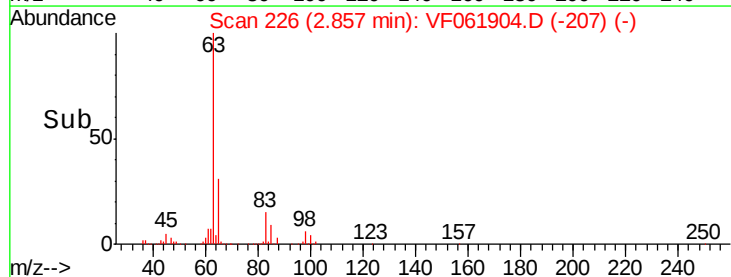
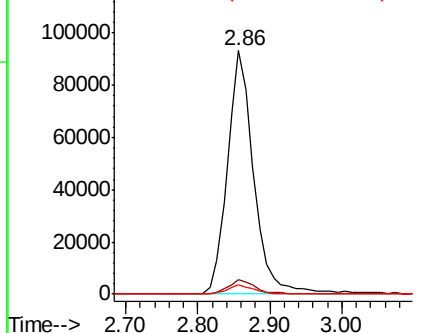
100 3.6 1.8 5.3

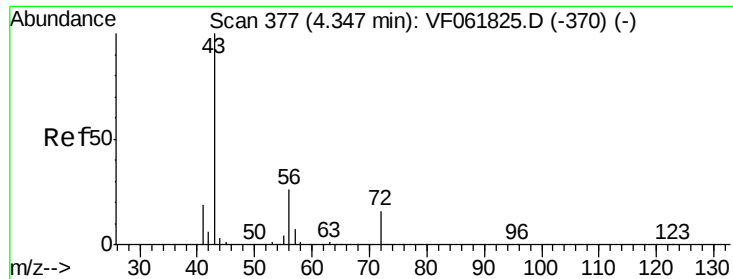


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 239.185 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 232031

Ion Ratio Lower Upper

43 100

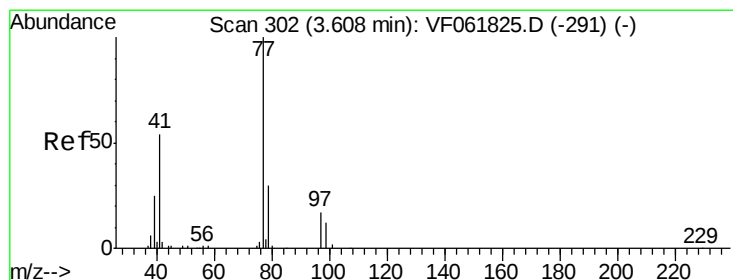
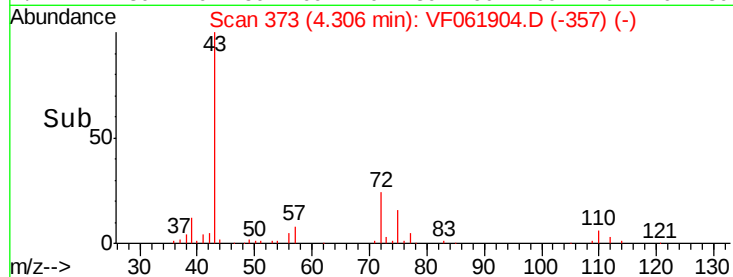
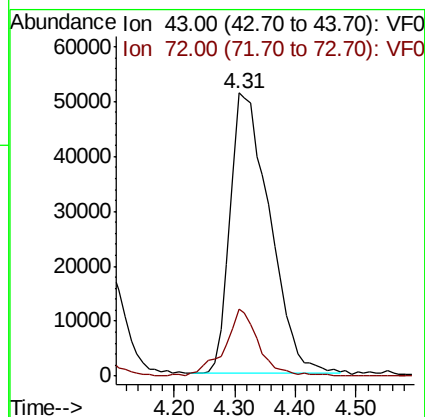
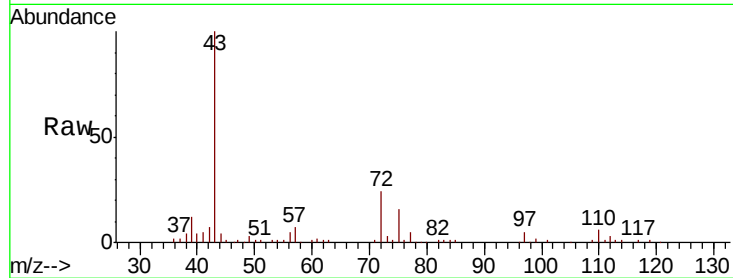
72 23.9 16.2 24.4

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 51.141 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.03 min

Lab File: VF061904.D

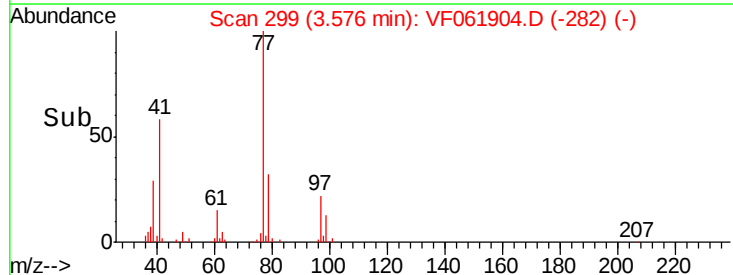
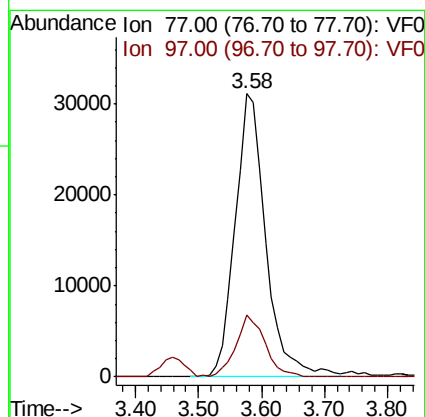
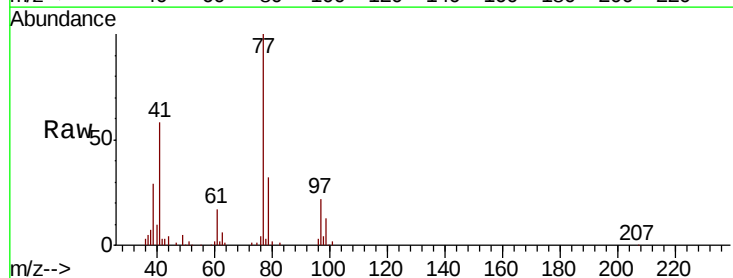
Acq: 12 Mar 2019 13:47

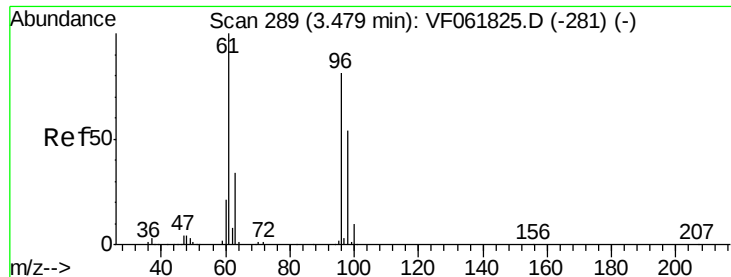
Tgt Ion: 77 Resp: 104558

Ion Ratio Lower Upper

77 100

97 21.7 10.4 31.4





#27

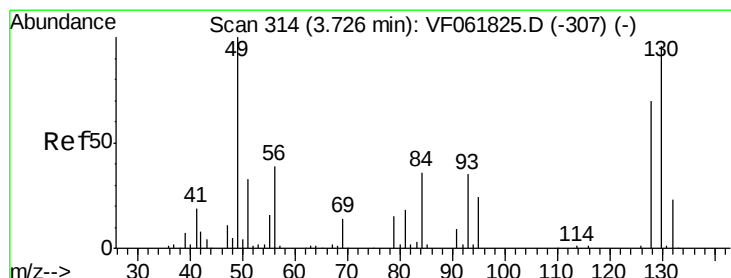
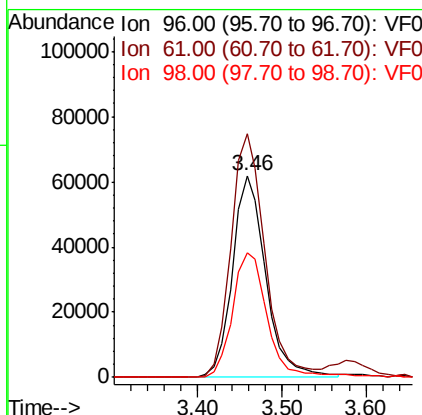
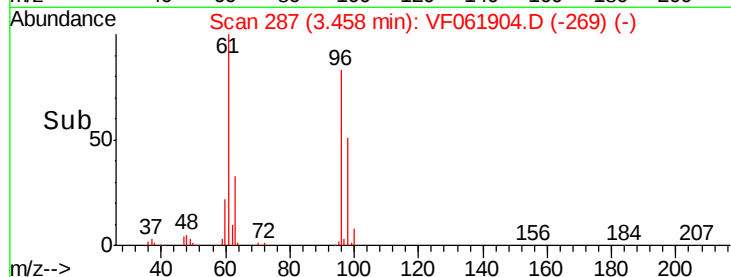
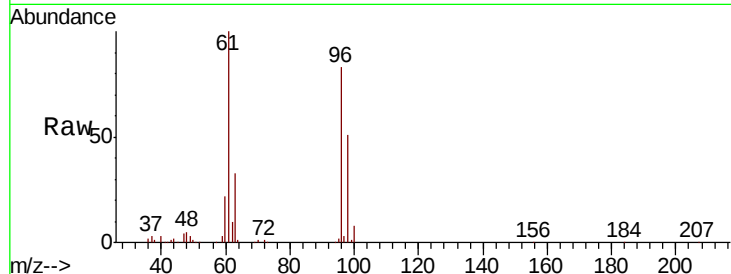
cis-1,2-Dichloroethene
Concen: 48.930 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	170592		
61	120.8		0.0	245.8
98	61.8		0.0	132.6

Manual Integrations
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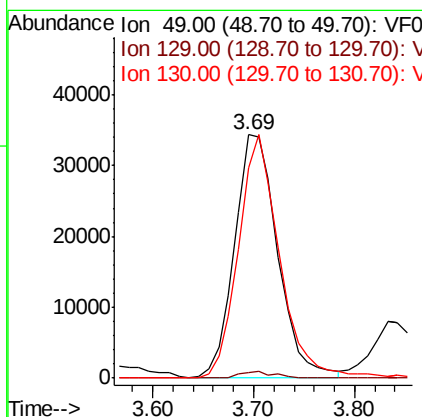
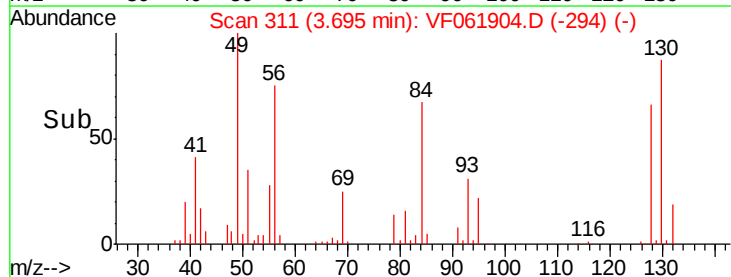
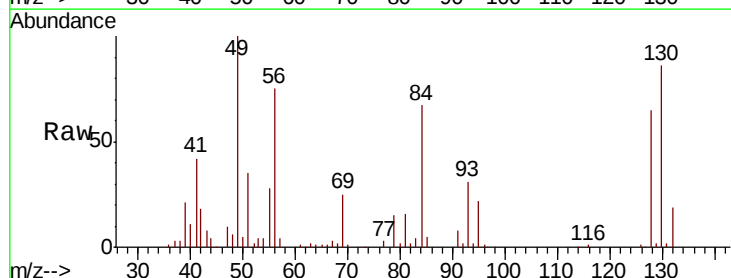
MMDadoda
3/13/2019 4:41:02 PM

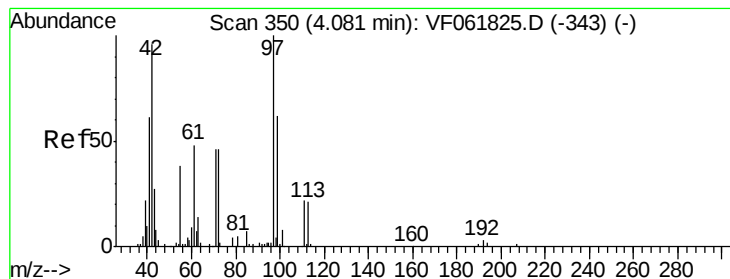


#28

Bromochloromethane
Concen: 50.846 ug/l
RT: 3.69 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	101509		
129	2.5		0.0	0.0#
130	86.3		76.9	115.3





#29

Tetrahydrofuran

Concen: 231.125 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

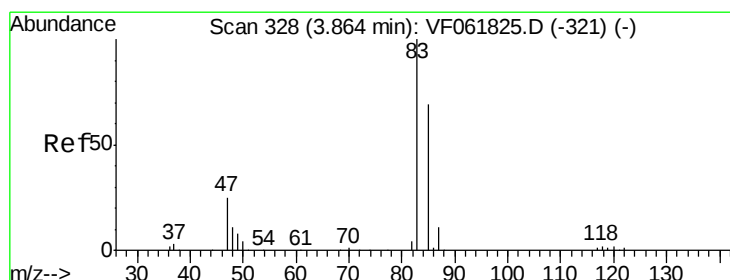
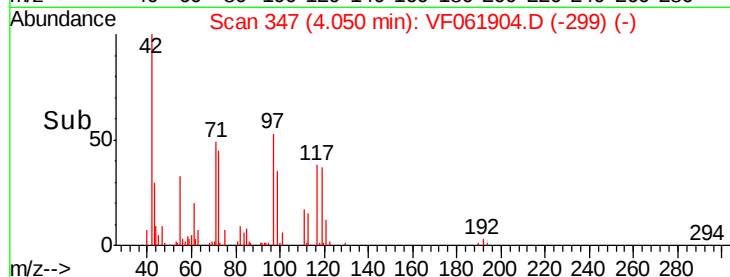
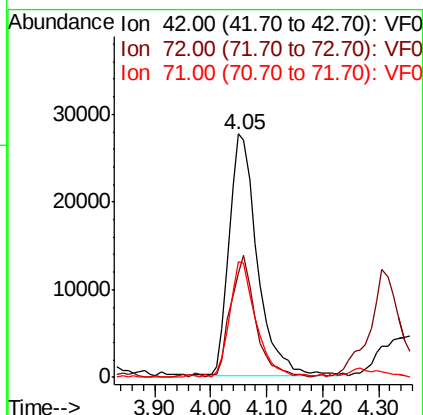
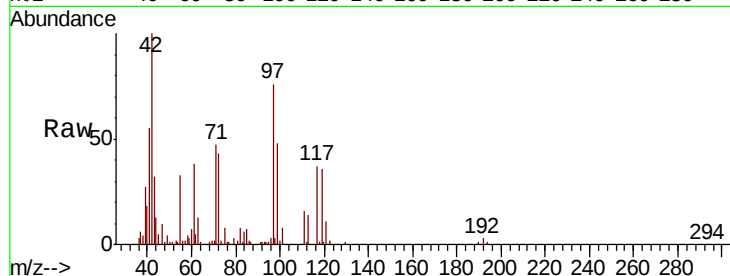
ClientSampleId :

VSTDCCC050

Tgt Ion:	42	Resp:	96696
Ion	Ratio	Lower	Upper
42	100		
72	44.5	34.4	51.6
71	45.2	34.6	52.0

Manual Integrations
APPROVED

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#30

Chloroform

Concen: 50.538 ug/l

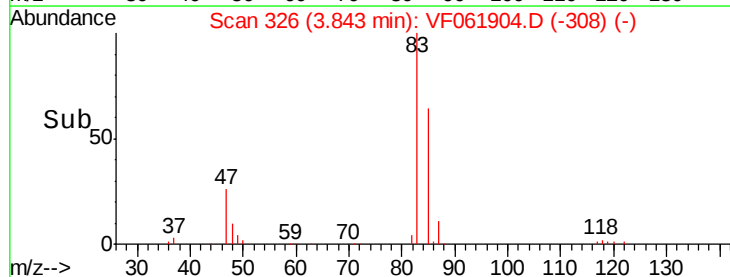
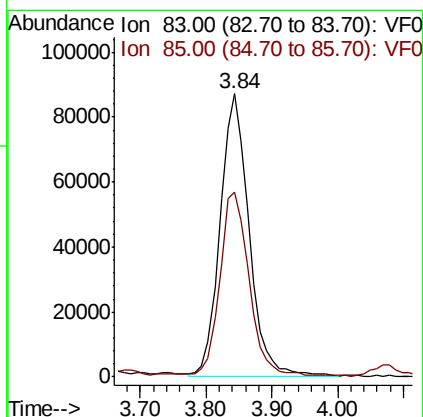
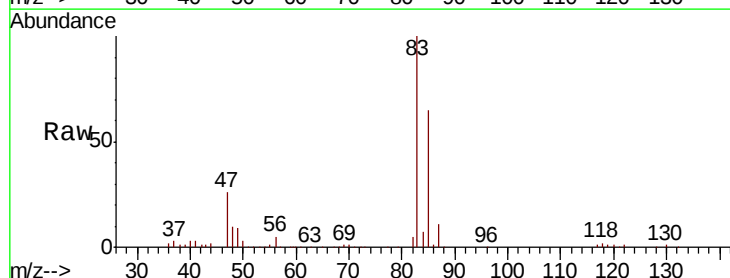
RT: 3.84 min Scan# 326

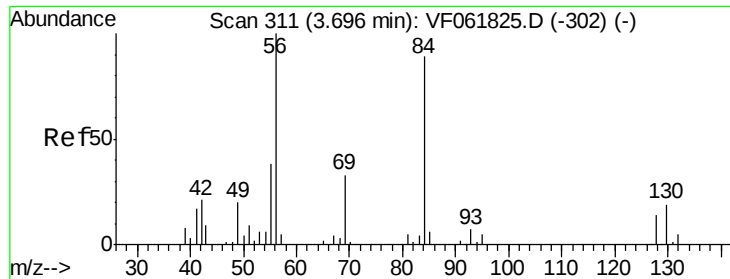
Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	83	Resp:	264373
Ion	Ratio	Lower	Upper
83	100		
85	65.5	55.3	82.9





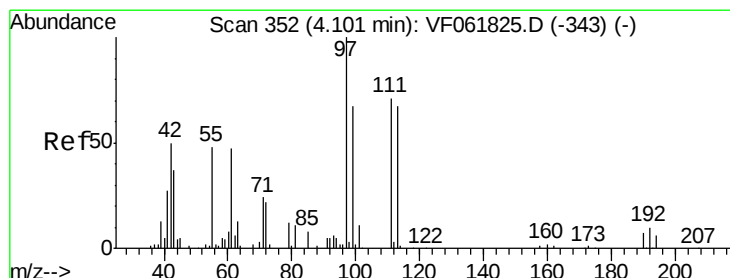
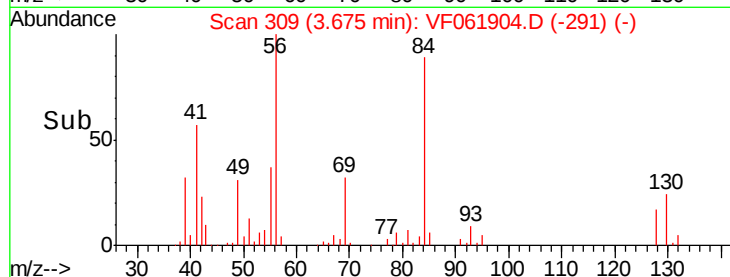
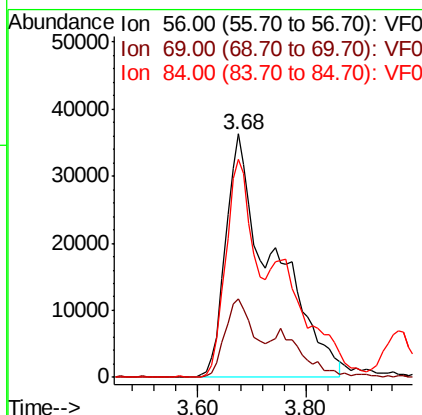
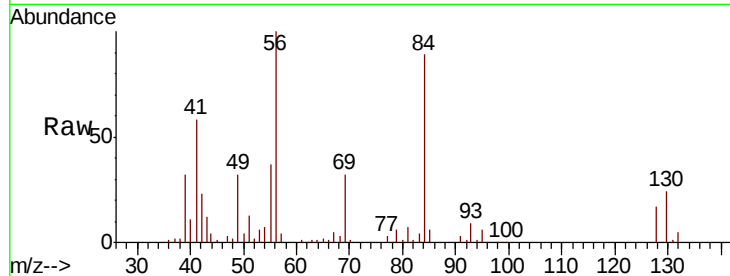
#31
Cyclohexane
Concen: 46.338 ug/l m
RT: 3.68 min Scan# 309
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.3	26.0	39.0
84	89.4	71.0	106.6

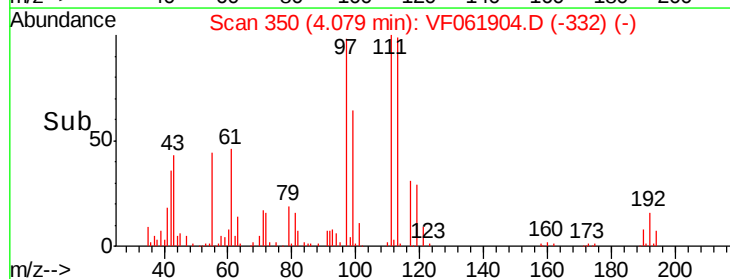
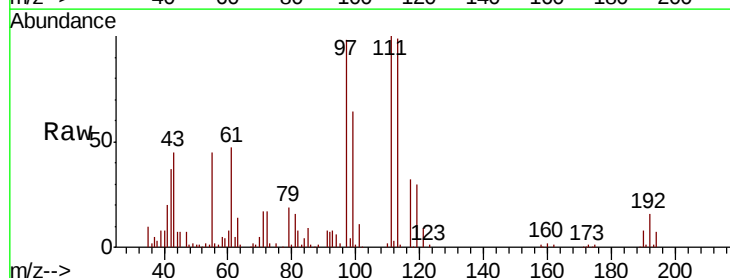
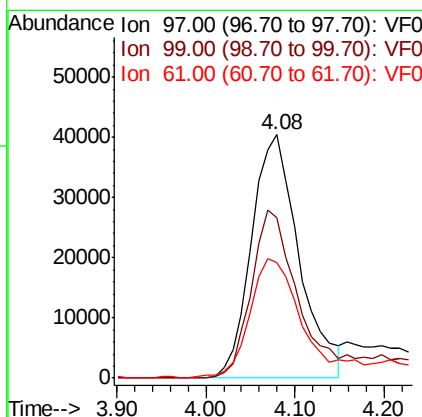
Manual Integrations
APPROVED

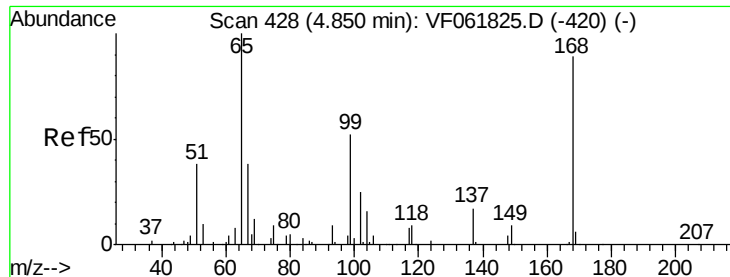
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 46.549 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.8	53.8	80.8
61	47.6	37.9	56.9





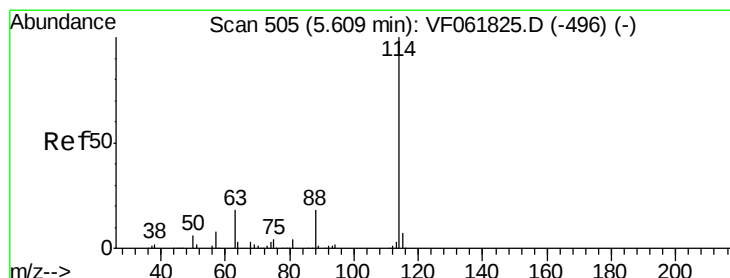
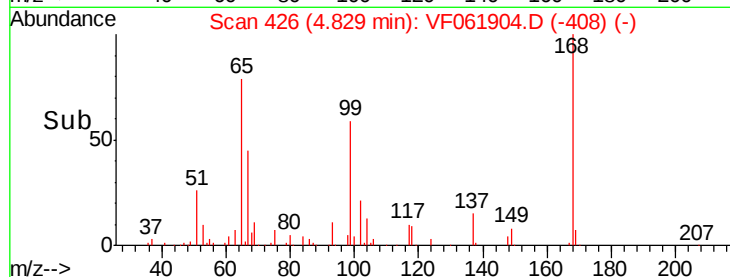
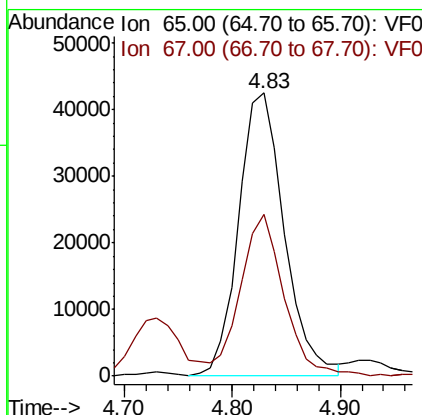
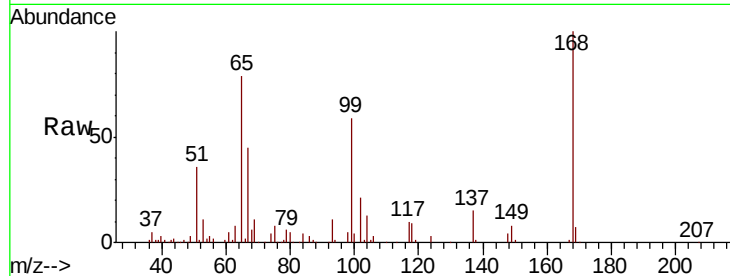
#33
 1,2-Dichloroethane-d4
 Concen: 54.683 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	124501		
67	56.9	0.0	108.6	

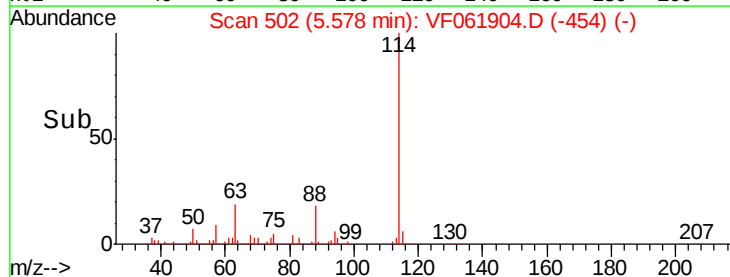
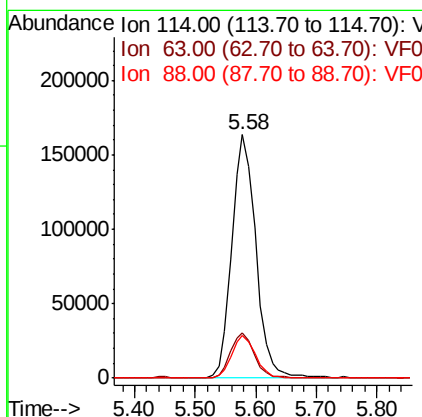
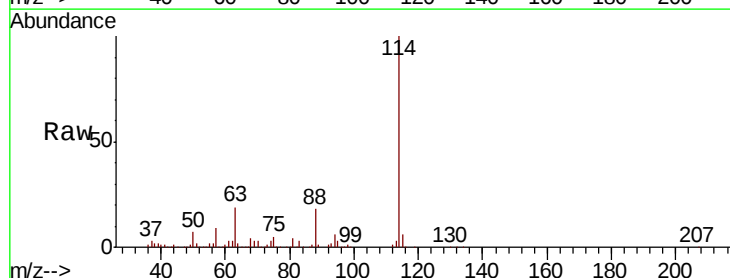
Manual Integrations
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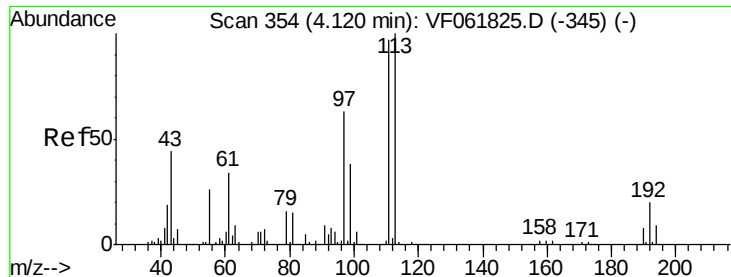
MMDadoda
 3/13/2019 4:41:02 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	453031		
63	18.8	0.0	35.6	
88	17.8	0.0	35.6	





#35

Dibromofluoromethane

Concen: 53.953 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

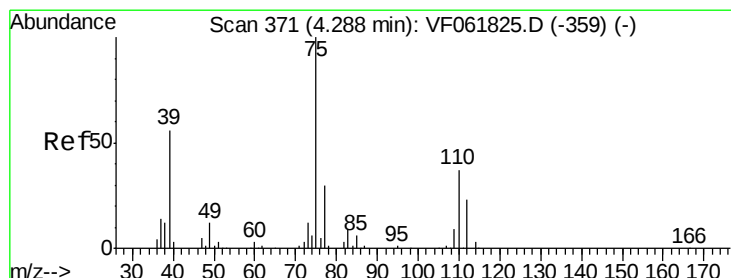
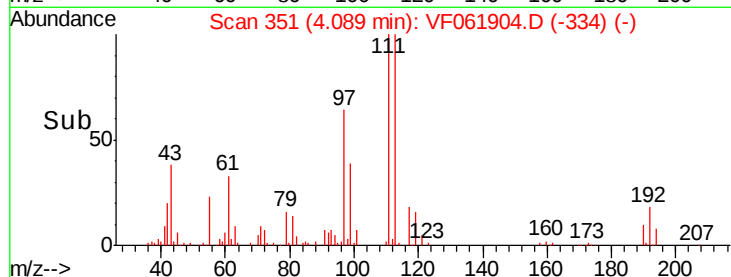
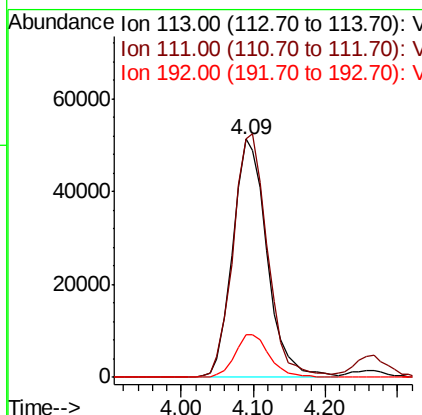
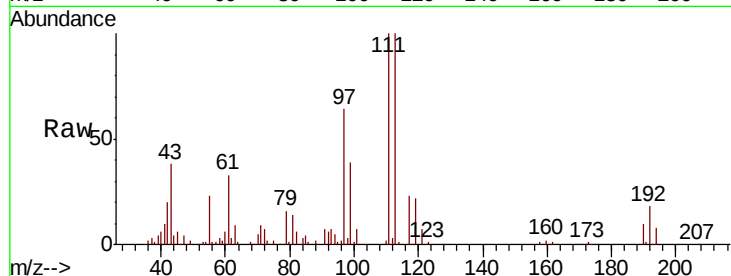
ClientSampleId :

VSTDCCC050

Tgt Ion:	113	Resp:	170575
Ion Ratio	Lower	Upper	
113	100		
111	100.0	77.6	116.4
192	18.3	15.9	23.9

Manual Integrations
APPROVED

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3/13/2019 4:41:02 PM



#36

1,1-Dichloropropene

Concen: 51.316 ug/l

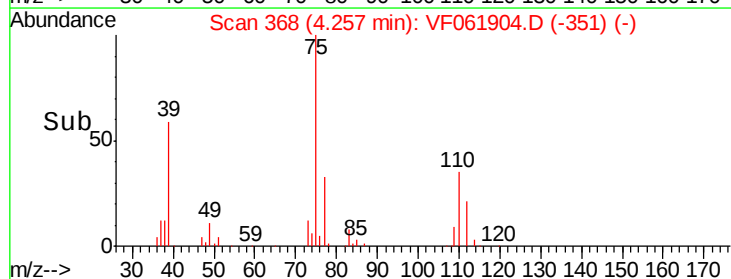
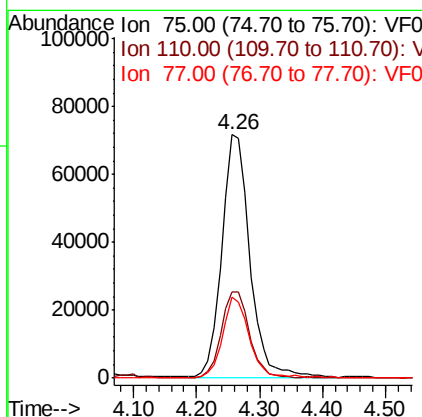
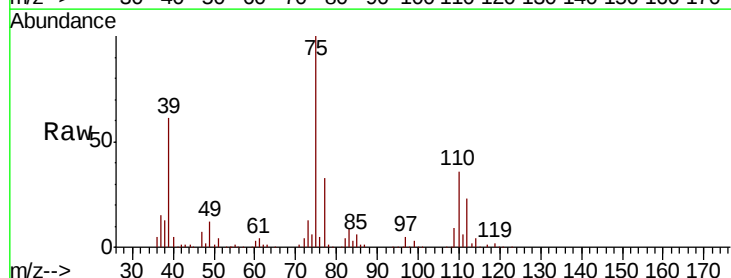
RT: 4.26 min Scan# 368

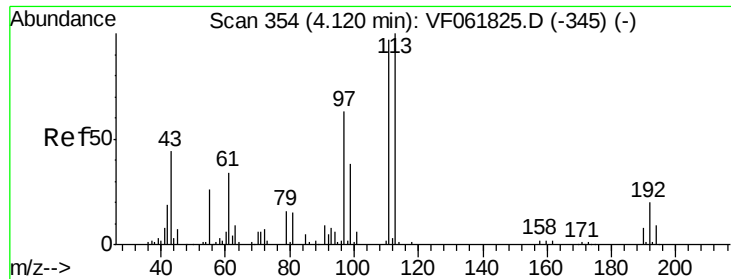
Delta R.T. -0.03 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	75	Resp:	219601
Ion Ratio	Lower	Upper	
75	100		
110	35.6	18.6	55.6
77	33.1	24.2	36.2





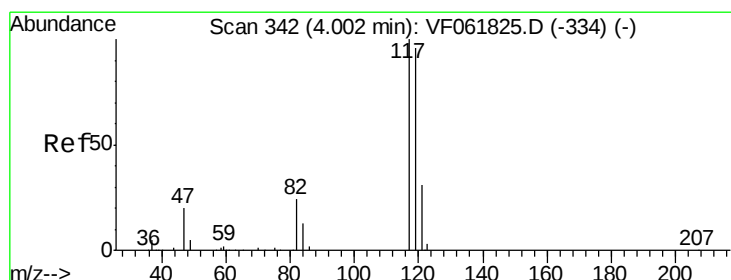
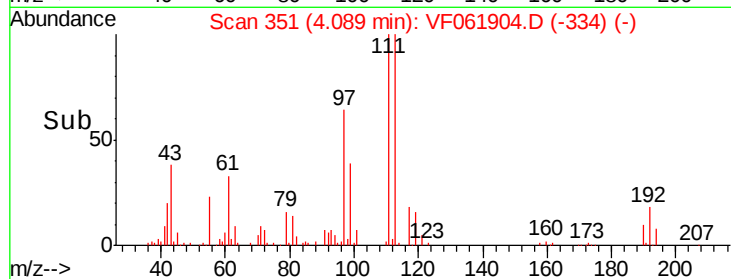
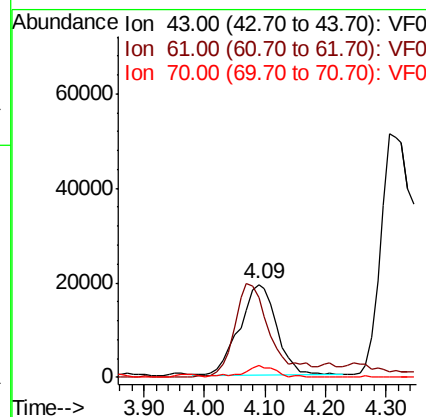
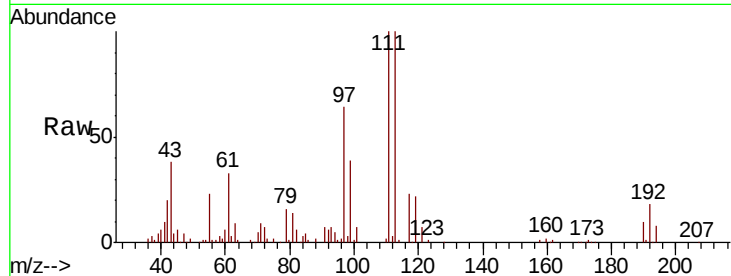
#37
Ethyl Acetate
Concen: 46.021 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	85.3	60.7	91.1
70	12.8	10.6	15.8

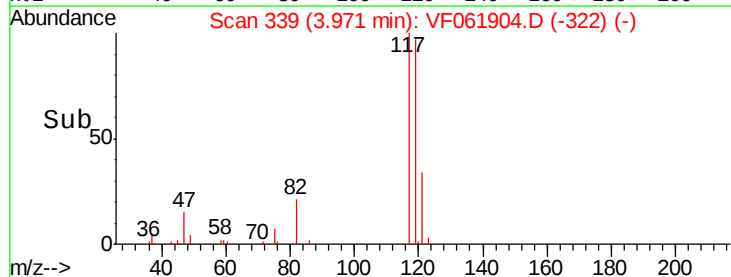
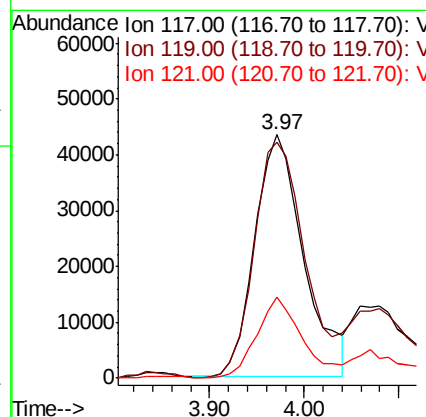
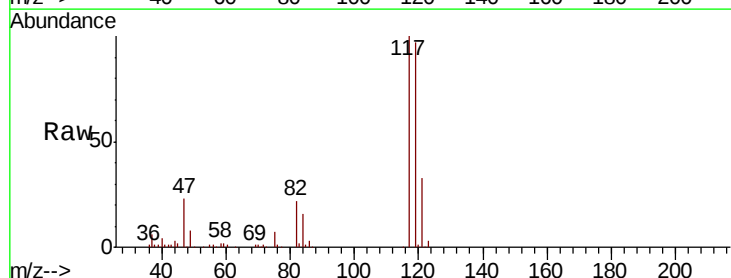
Manual Integrations
APPROVED

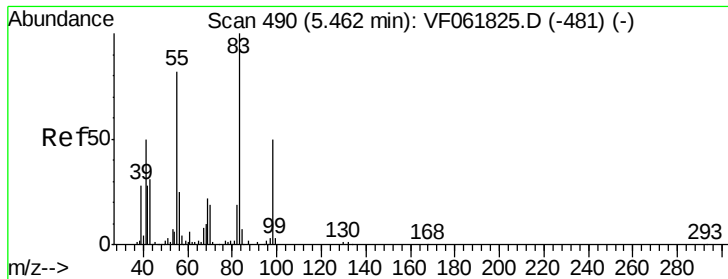
MMDadoda
3/13/2019 4:41:02 PM



#38
Carbon Tetrachloride
Concen: 51.745 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.6	114.8
121	33.5	24.4	36.6





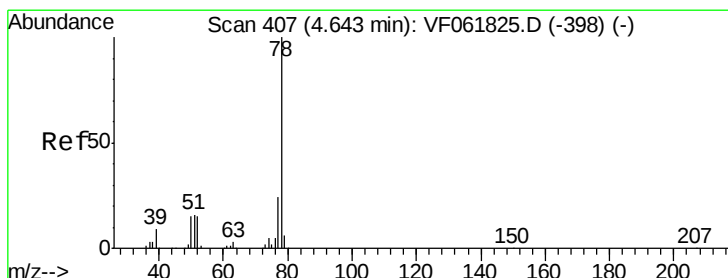
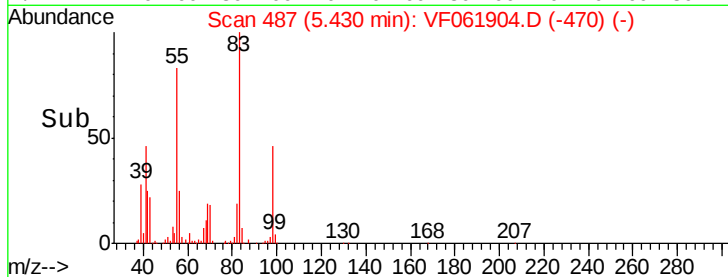
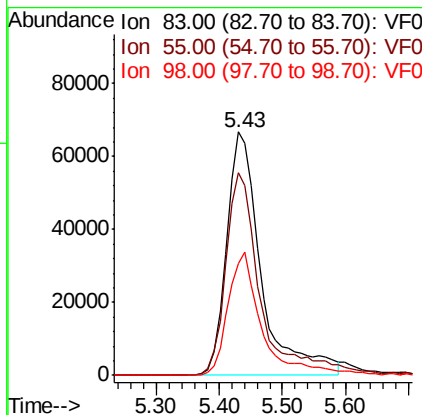
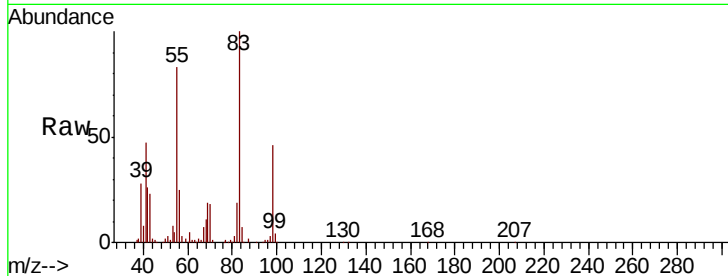
#39
Methylcyclohexane
Concen: 50.445 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	254981		
55	83.4	66.0	99.0	
98	46.1	39.8	59.6	

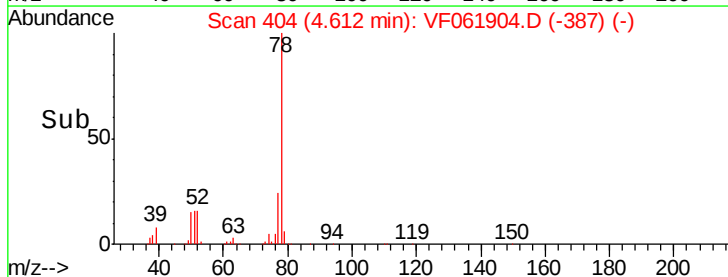
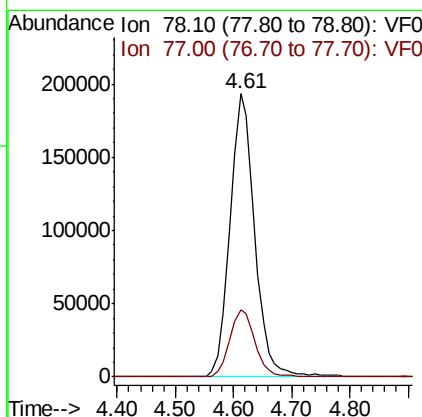
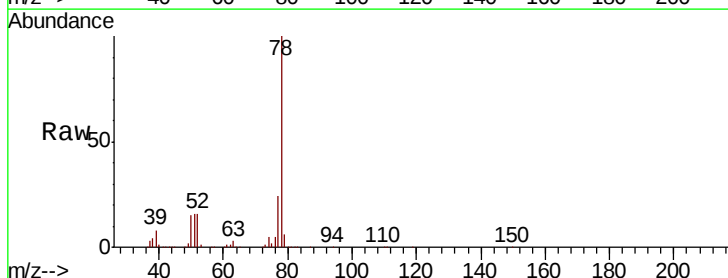
Manual Integrations
APPROVED

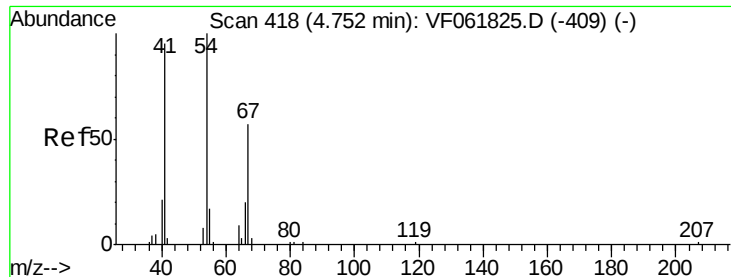
MMDadoda
3/13/2019 4:41:02 PM



#40
Benzene
Concen: 50.708 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	567208		
77	23.8	19.5	29.3	





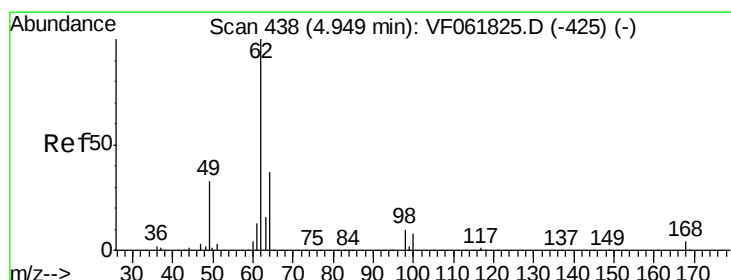
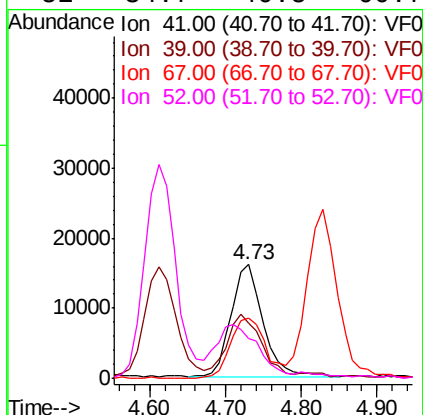
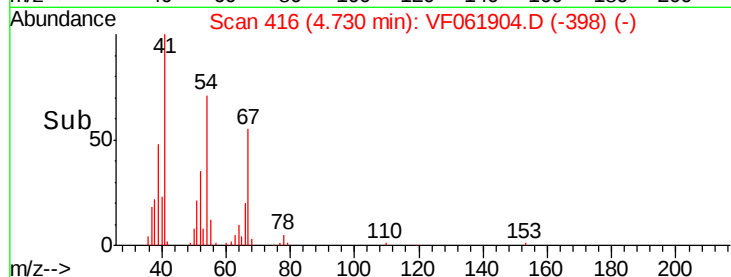
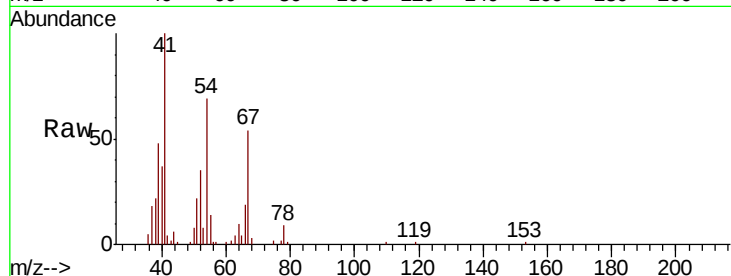
#41
Methacrylonitrile
Concen: 46.963 ug/l
RT: 4.73 min Scan# 416
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
41	100		
39	48.3	43.0	64.6
67	53.5	47.8	71.8
52	34.7	40.5	60.7#

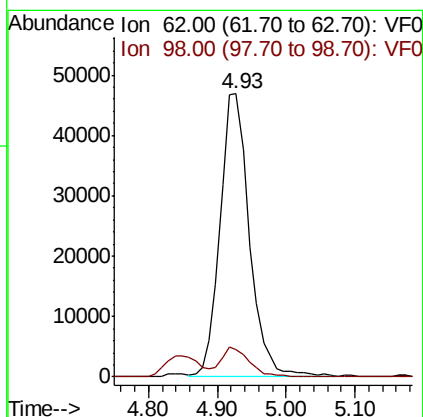
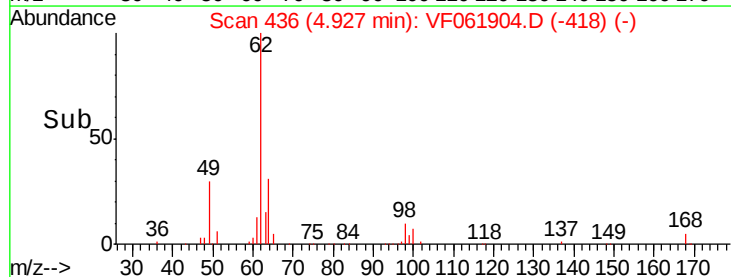
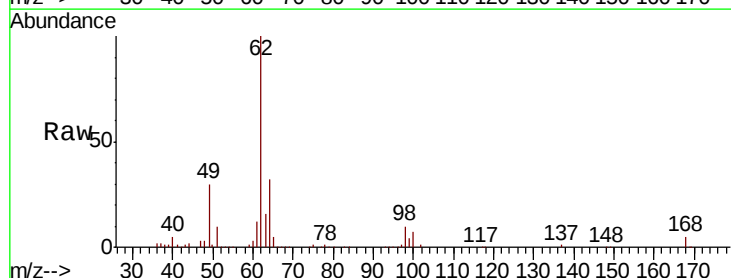
Manual Integrations
APPROVED

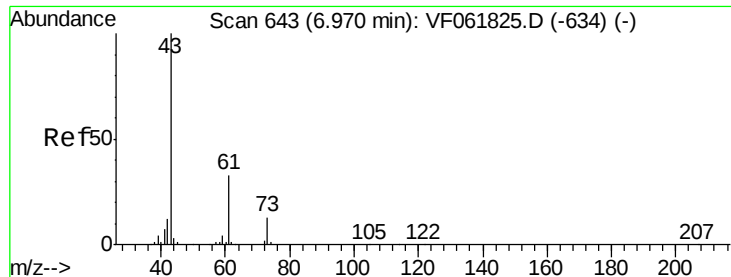
MMDadoda
3/13/2019 4:41:02 PM



#42
1,2-Dichloroethane
Concen: 49.449 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	21.0





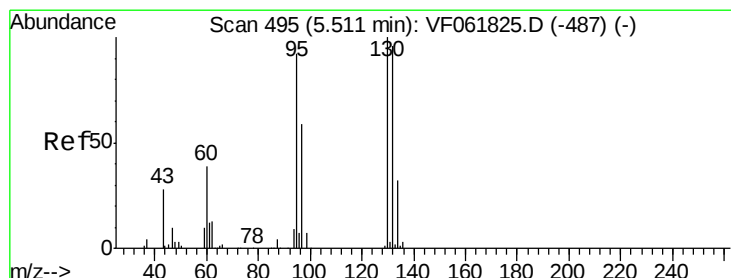
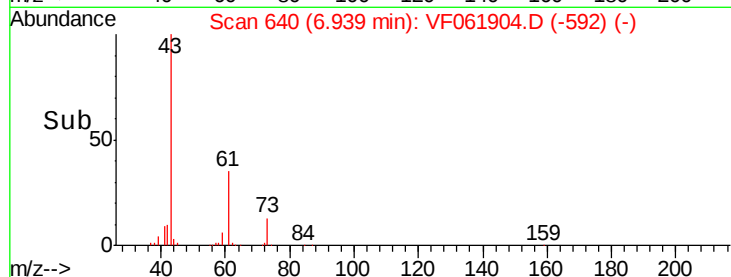
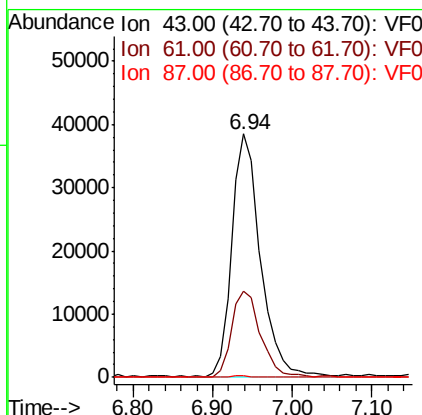
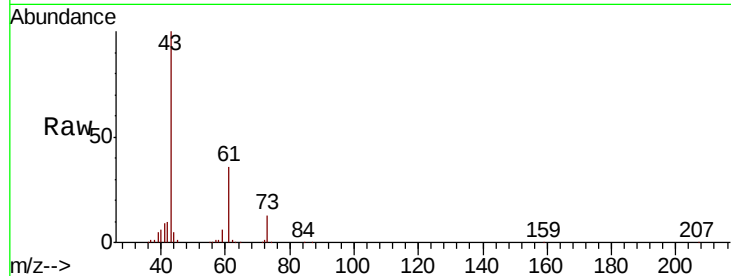
#43
Isopropyl Acetate
Concen: 43.834 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	35.5	26.1	39.1
87	0.5	0.0	0.0

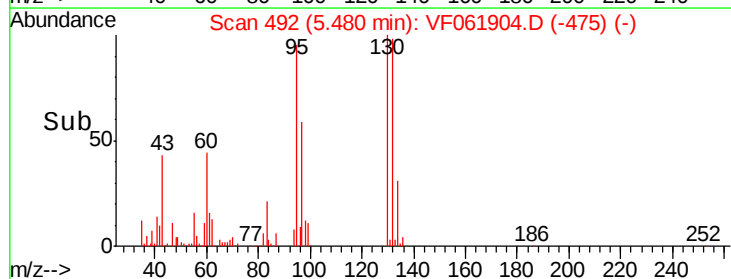
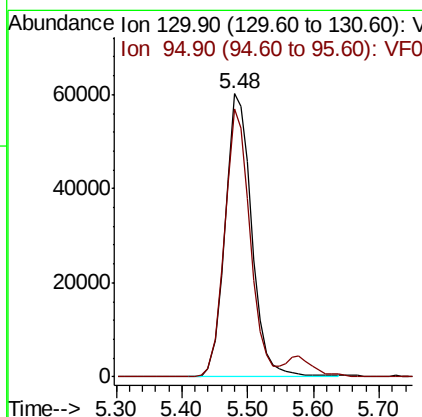
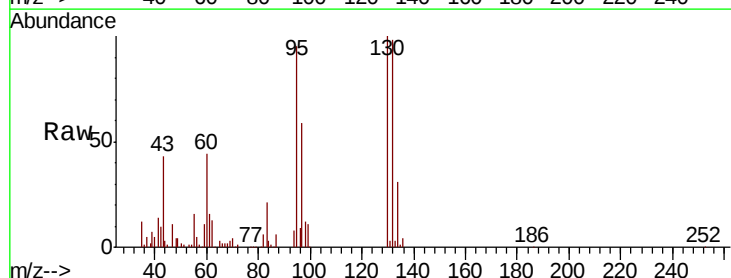
Manual Integrations
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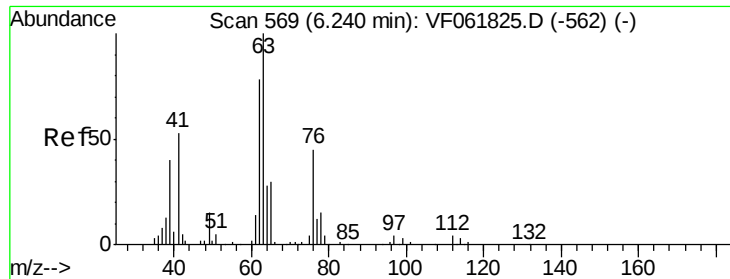
MMDadoda
3/13/2019 4:41:02 PM



#44
Trichloroethene
Concen: 48.948 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	184.0





#45

1,2-Dichloropropane

Concen: 51.352 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 136592

Ion Ratio Lower Upper

63 100

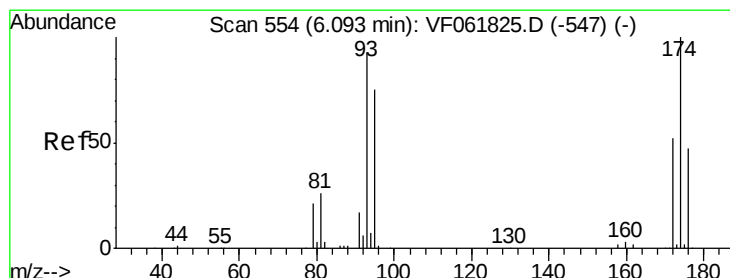
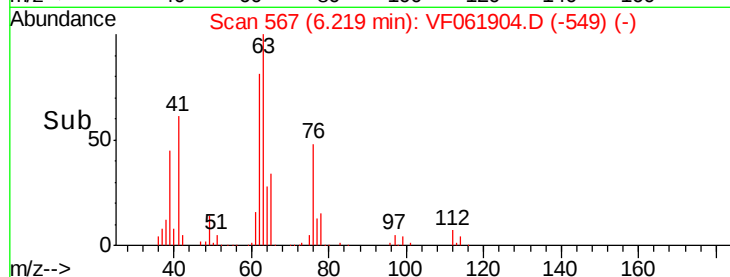
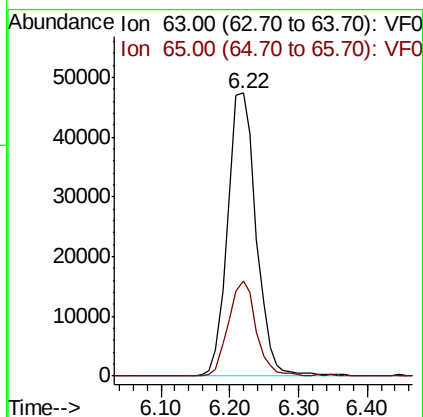
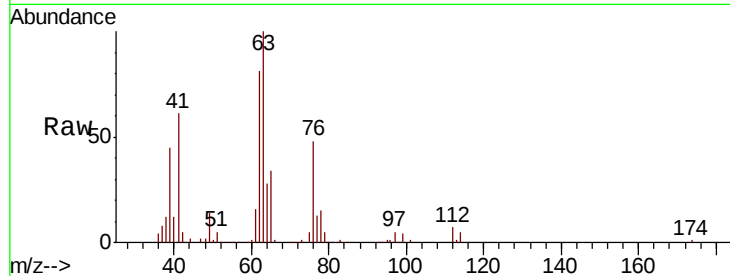
65 33.5 24.0 36.0

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#46

Dibromomethane

Concen: 48.143 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

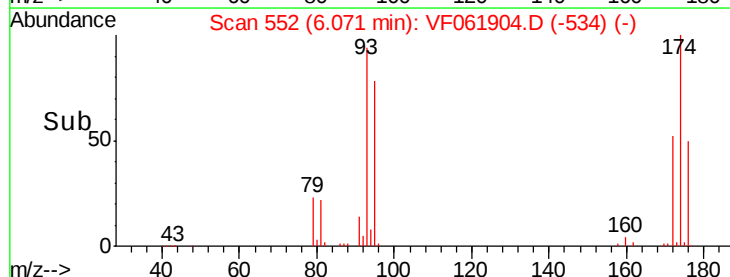
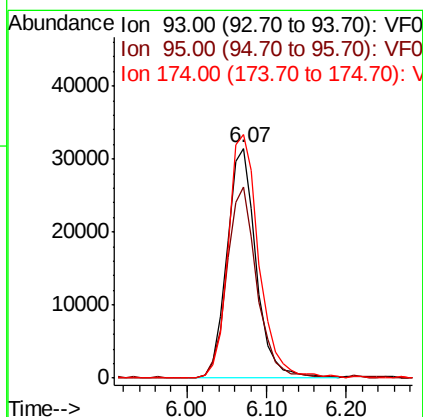
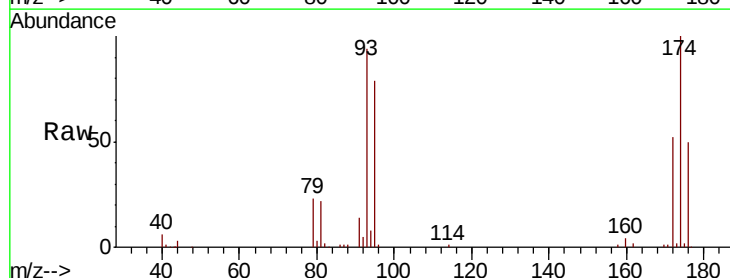
Tgt Ion: 93 Resp: 80594

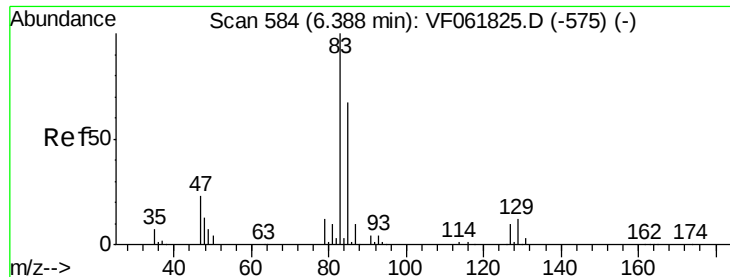
Ion Ratio Lower Upper

93 100

95 83.2 64.4 96.6

174 105.9 85.8 128.6





#47

Bromodichloromethane

Concen: 50.324 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

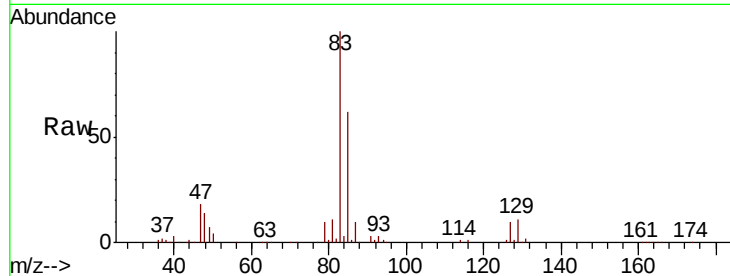
ClientSampleId :

VSTDCCC050

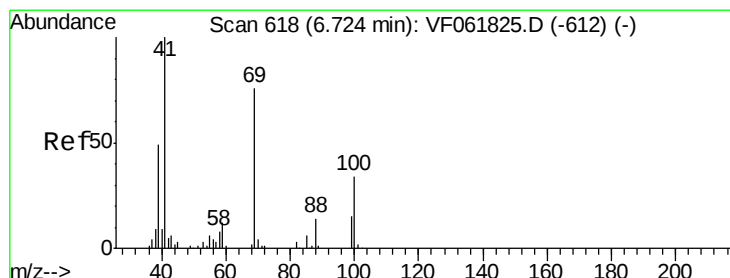
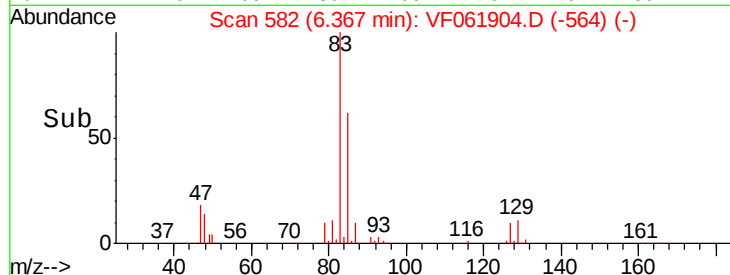
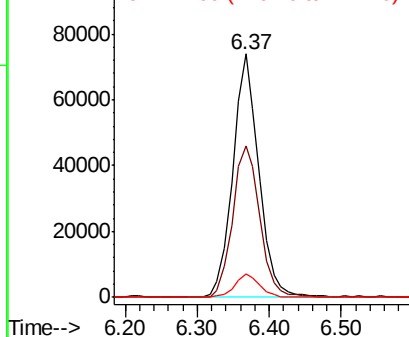
Tgt Ion:	83	Resp:	186116
Ion	Ratio	Lower	Upper
83	100		
85	62.3	53.6	80.4
127	9.7	8.1	12.1

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 46.956 ug/l

RT: 6.70 min Scan# 616

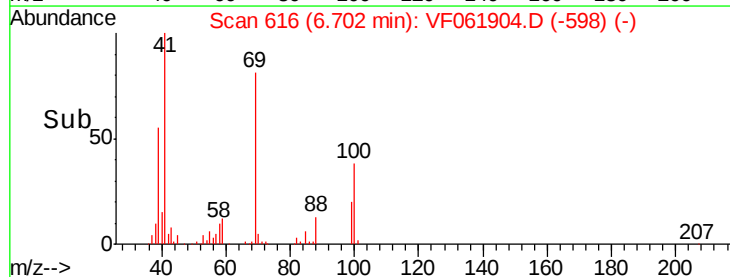
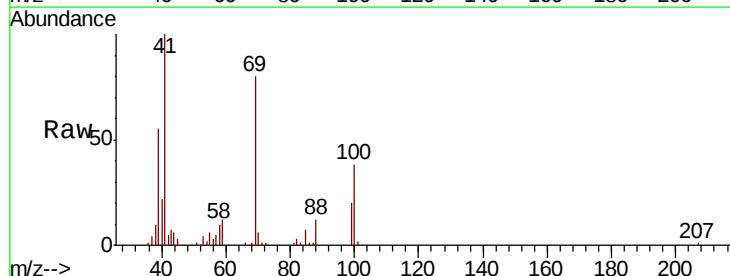
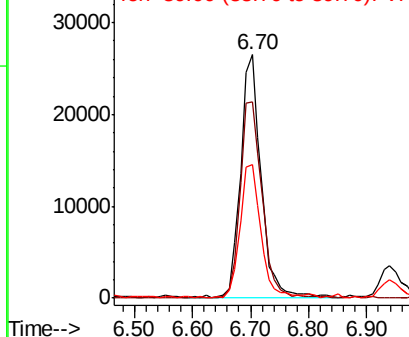
Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	41	Resp:	65797
Ion	Ratio	Lower	Upper
41	100		
69	80.5	60.4	90.6
39	54.8	39.7	59.5

Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





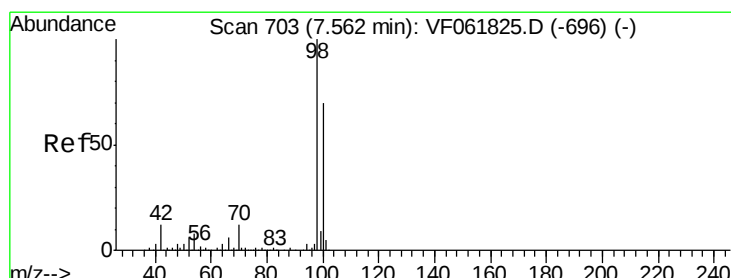
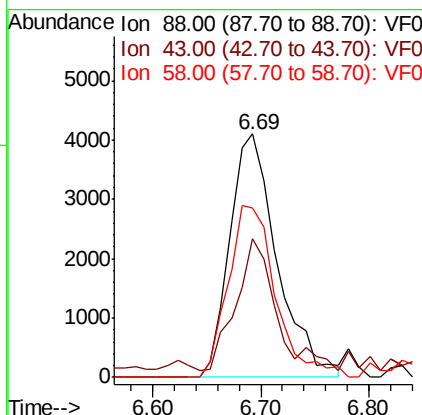
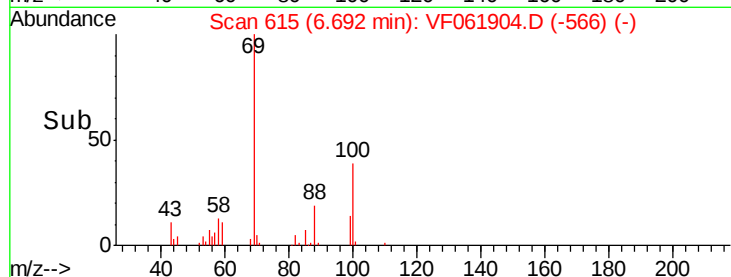
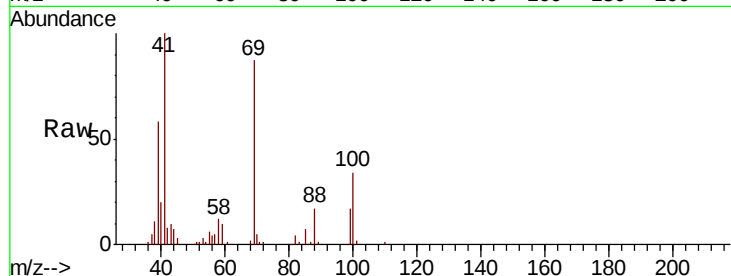
#49
1,4-Dioxane
Concen: 977.628 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
88	100		
43	57.0	28.4	42.6#
58	69.8	50.7	76.1

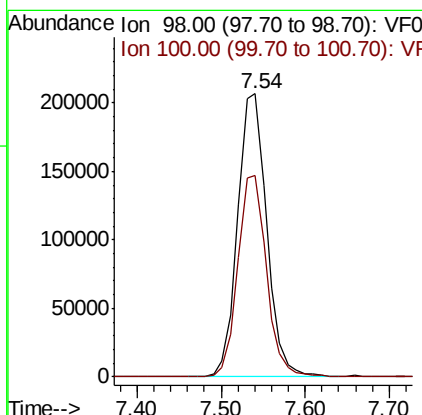
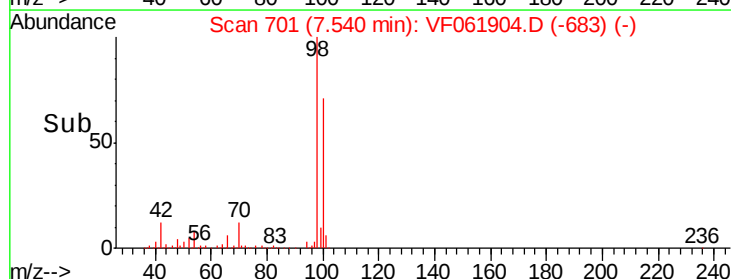
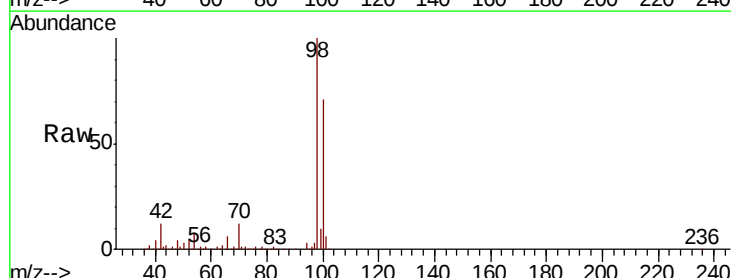
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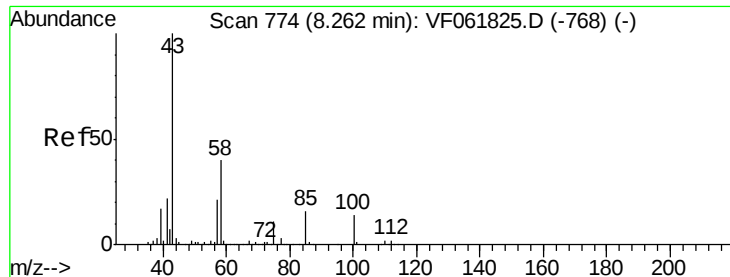
MMDadoda
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#50
Toluene-d8
Concen: 53.100 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.3	56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 236.882 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 362491

Ion Ratio Lower Upper

43 100

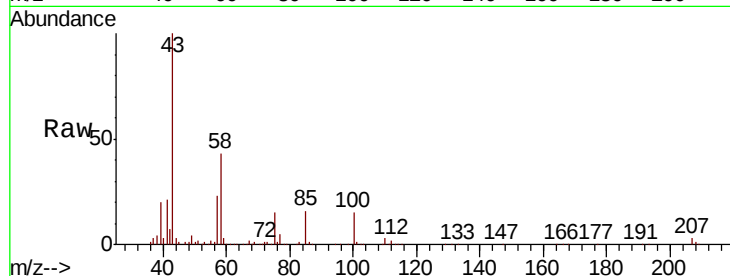
58 42.7 31.8 47.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

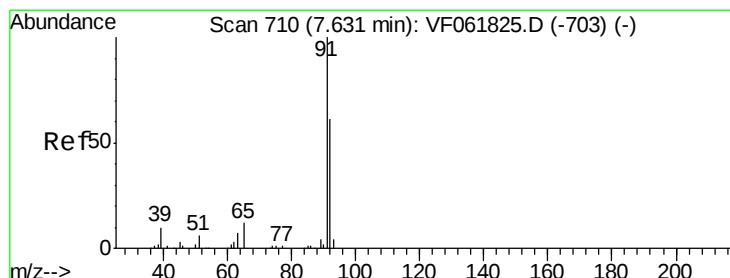
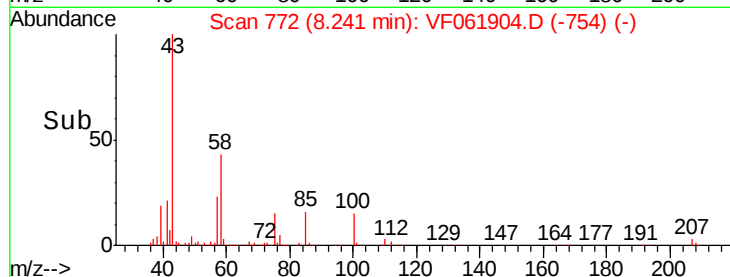
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 50.281 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061904.D

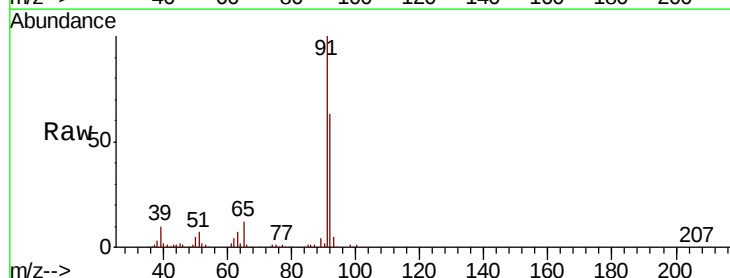
Acq: 12 Mar 2019 13:47

Tgt Ion: 92 Resp: 332722

Ion Ratio Lower Upper

92 100

91 159.2 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

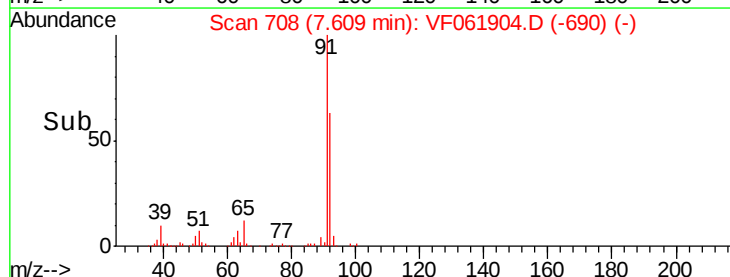
100000

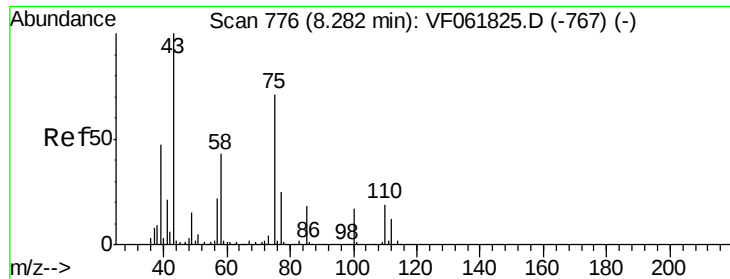
50000

0

7.50 7.60 7.70 7.80

Time-->





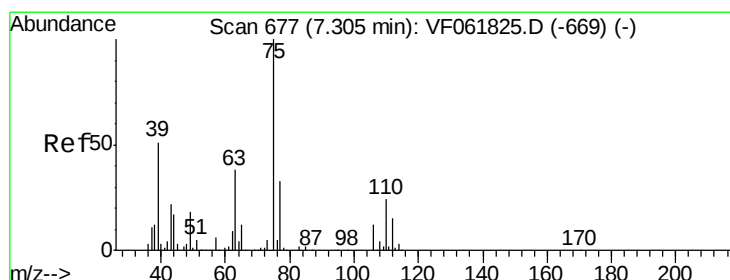
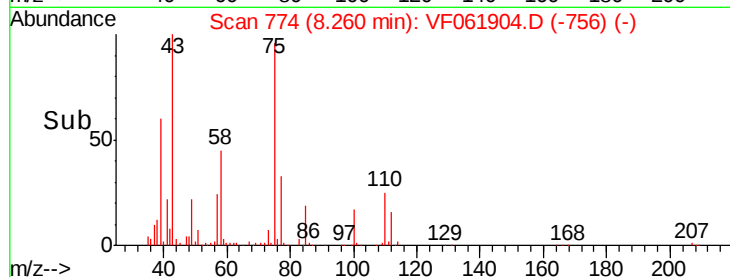
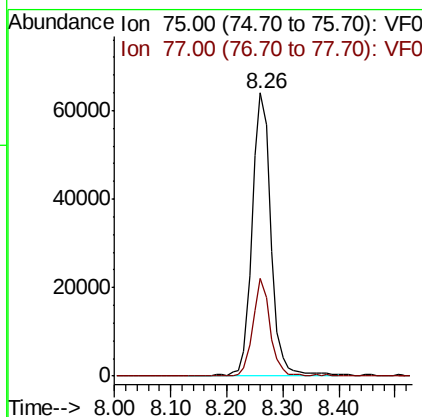
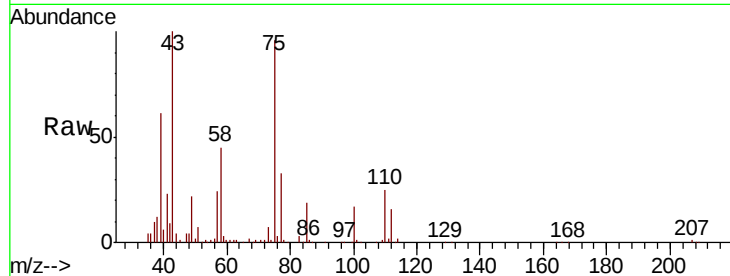
#53
t-1,3-Dichloropropene
Concen: 48.947 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 149427
Ion Ratio Lower Upper
75 100
77 34.5 28.0 42.0

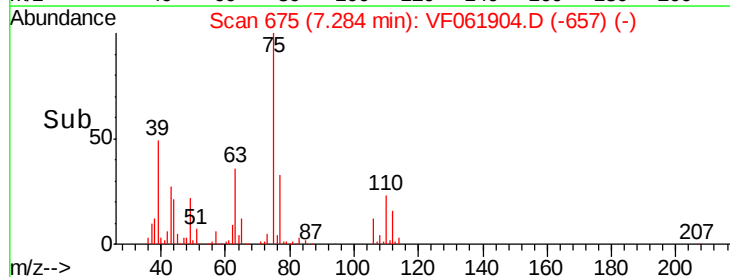
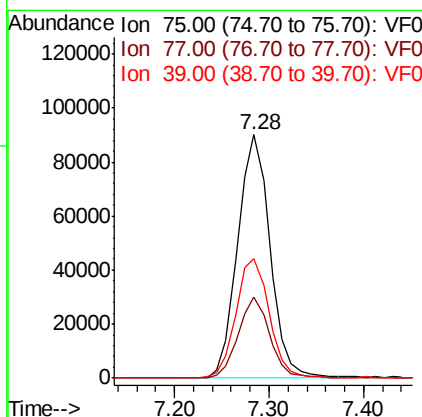
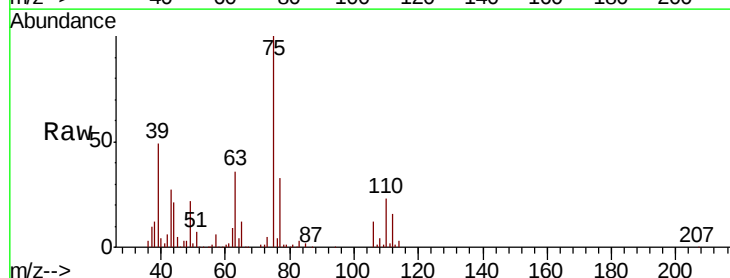
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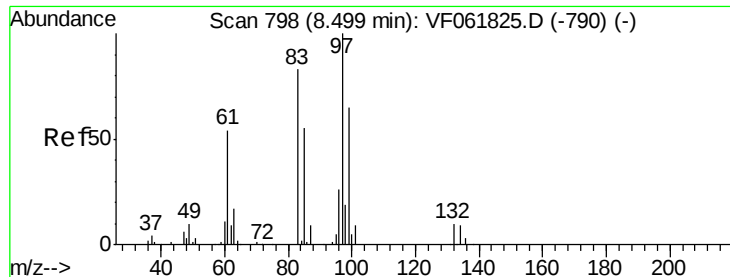
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 50.960 ug/l
RT: 7.28 min Scan# 675
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion: 75 Resp: 214583
Ion Ratio Lower Upper
75 100
77 33.1 26.3 39.5
39 49.2 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 48.728 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

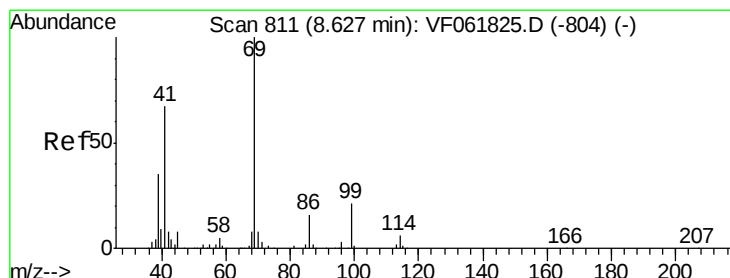
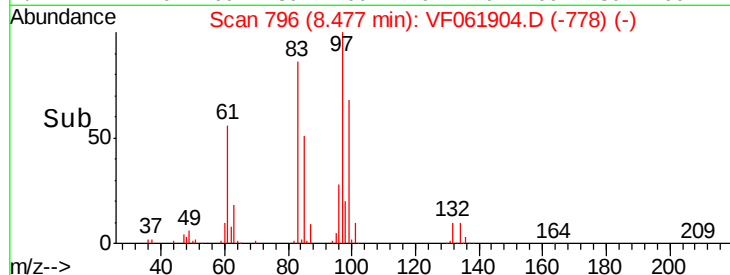
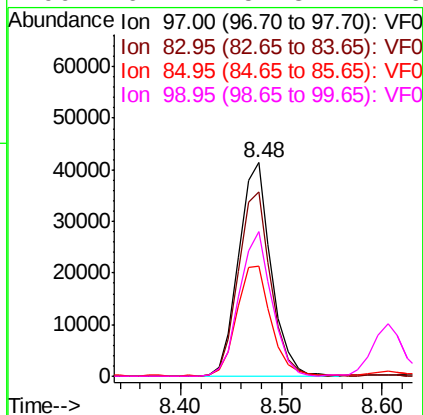
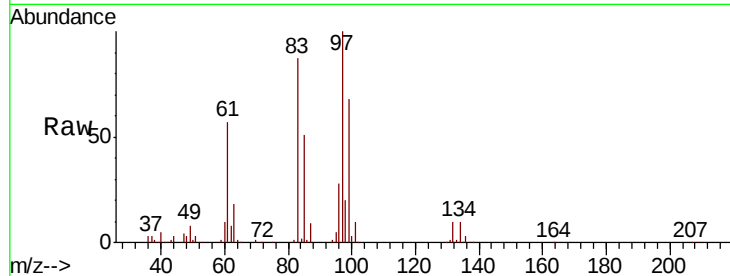
ClientSampleId :

VSTDCCC050

Tgt Ion:	97	Resp:	92904
Ion	Ratio	Lower	Upper
97	100		
83	86.5	66.5	99.7
85	51.3	44.2	66.2
99	67.7	51.8	77.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 48.370 ug/l

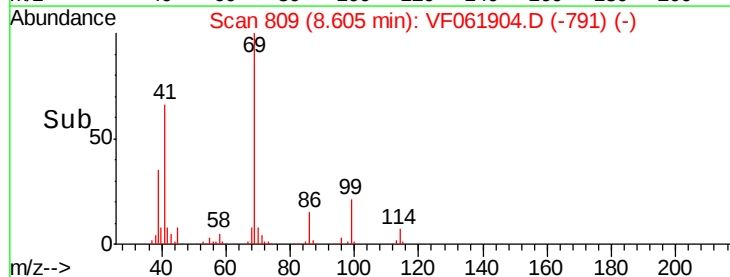
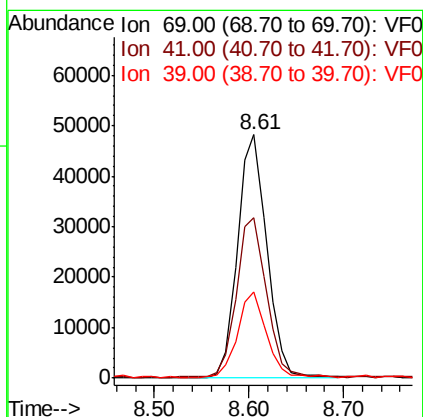
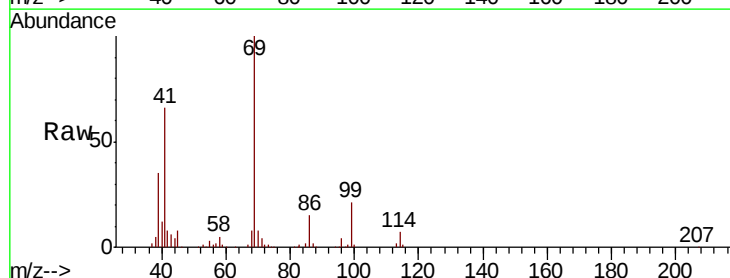
RT: 8.61 min Scan# 809

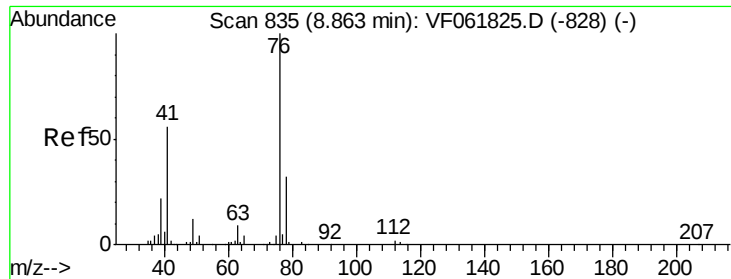
Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	69	Resp:	103935
Ion	Ratio	Lower	Upper
69	100		
41	66.2	53.9	80.9
39	35.1	28.3	42.5





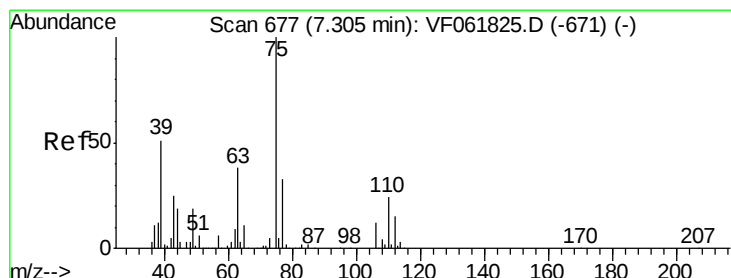
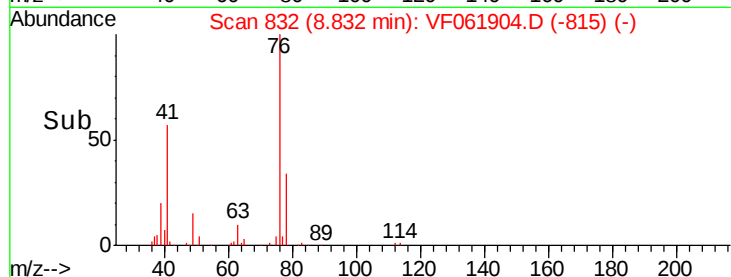
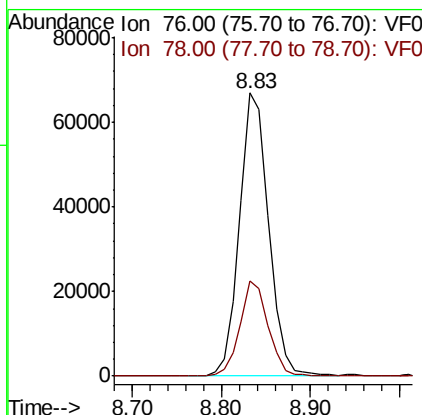
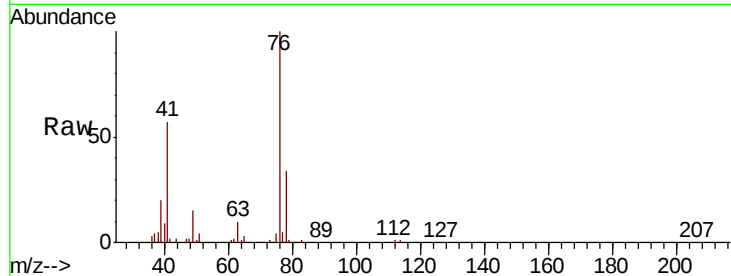
#57
 1,3-Dichloropropane
 Concen: 48.944 ug/l
 RT: 8.83 min Scan# 832
 Delta R.T. -0.03 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 76 Resp: 152608
 Ion Ratio Lower Upper
 76 100
 78 33.6 25.4 38.2

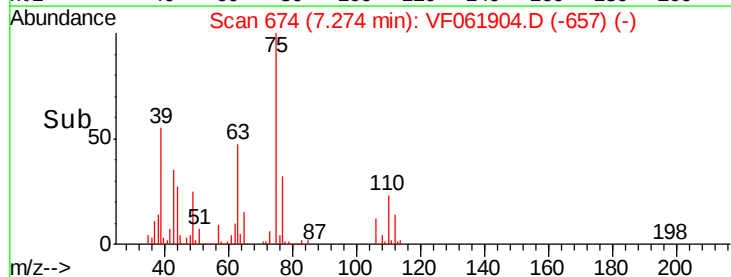
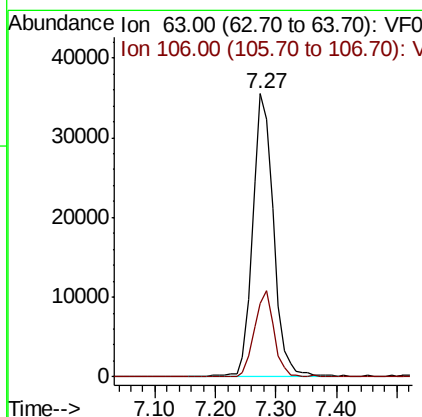
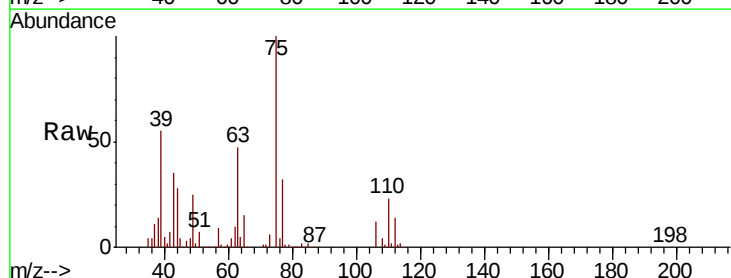
Manual Integrations
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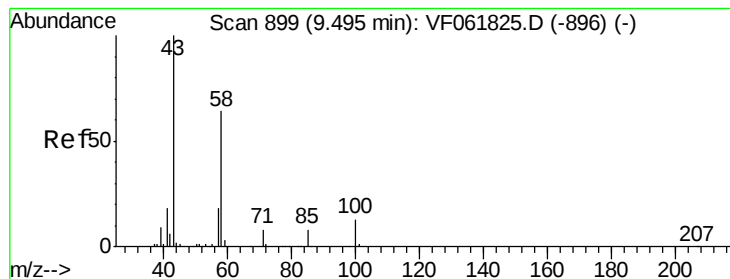
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#58
 2-Chloroethyl Vinyl ether
 Concen: 250.261 ug/l
 RT: 7.27 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion: 63 Resp: 85066
 Ion Ratio Lower Upper
 63 100
 106 25.9 24.3 36.5





#59

2-Hexanone

Concen: 250.972 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 277061

Ion Ratio Lower Upper

43 100

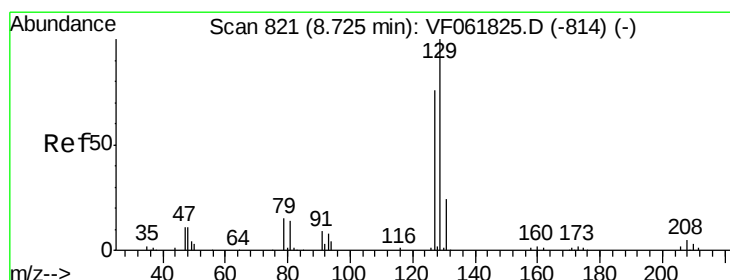
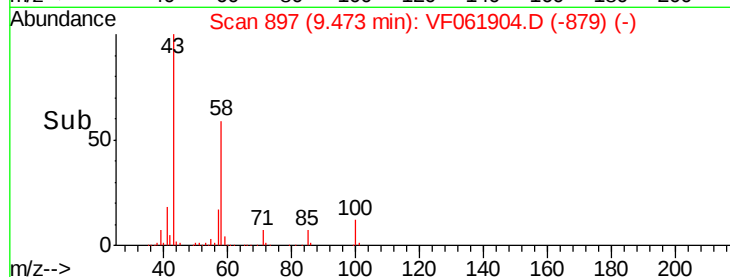
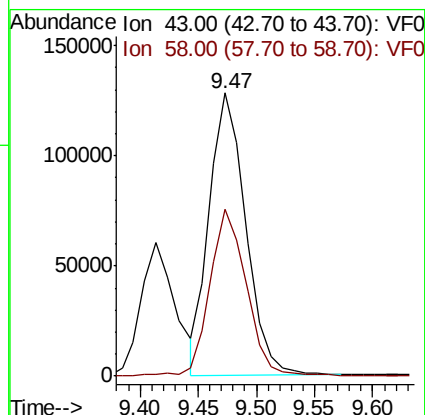
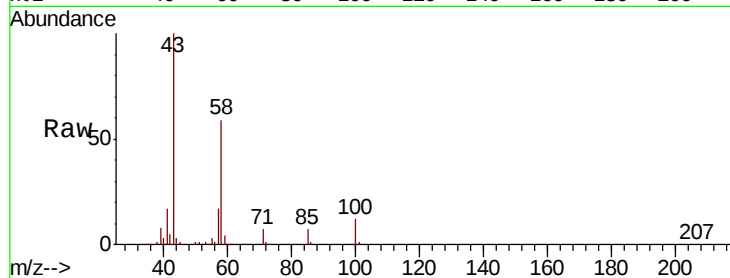
58 58.9 28.8 86.4

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#60

Dibromochloromethane

Concen: 48.075 ug/l

RT: 8.69 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061904.D

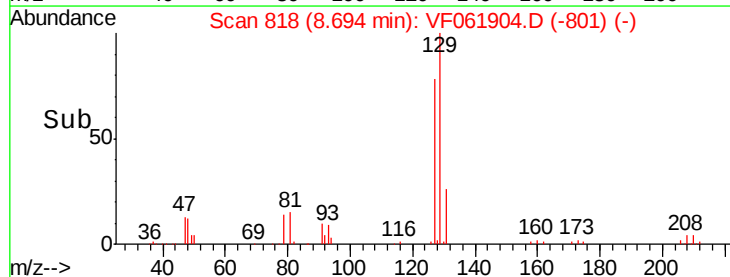
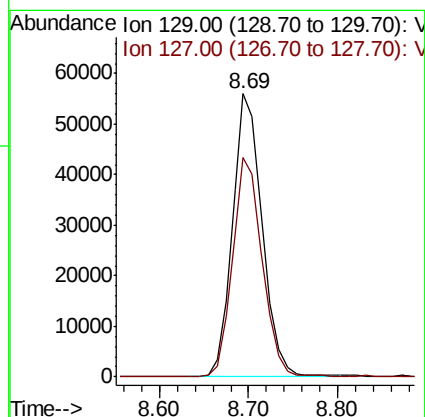
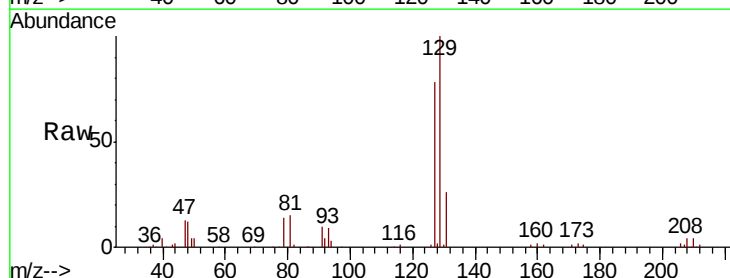
Acq: 12 Mar 2019 13:47

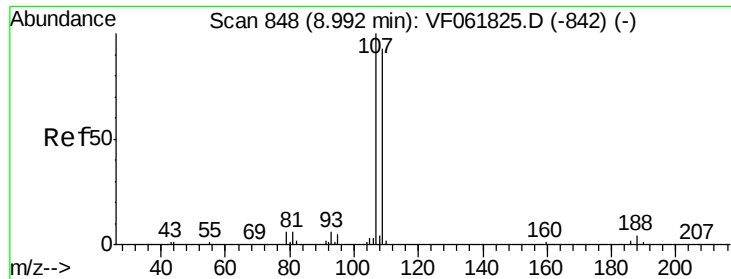
Tgt Ion: 129 Resp: 130637

Ion Ratio Lower Upper

129 100

127 77.7 38.2 114.6





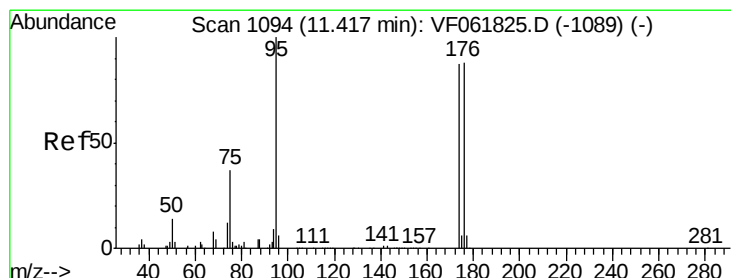
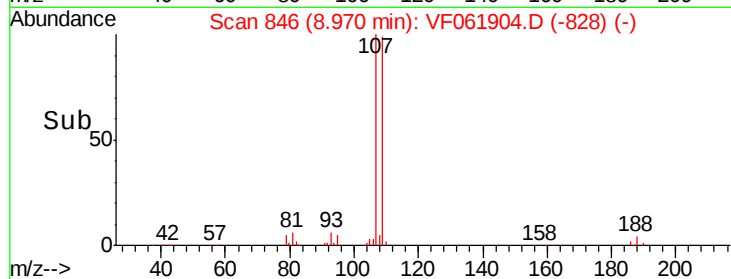
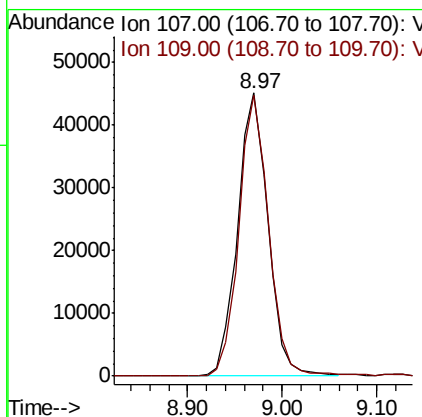
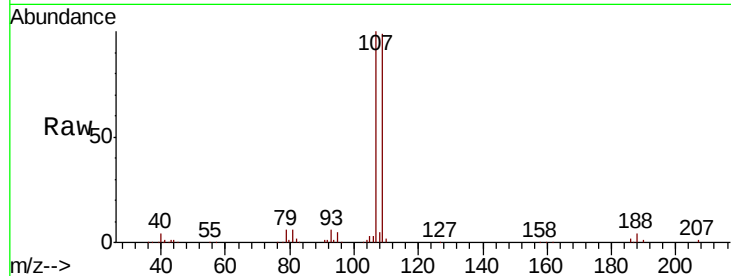
#61
 1,2-Dibromoethane
 Concen: 48.019 ug/l
 RT: 8.97 min Scan# 846
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
107	100		
109	99.4	74.6	112.0

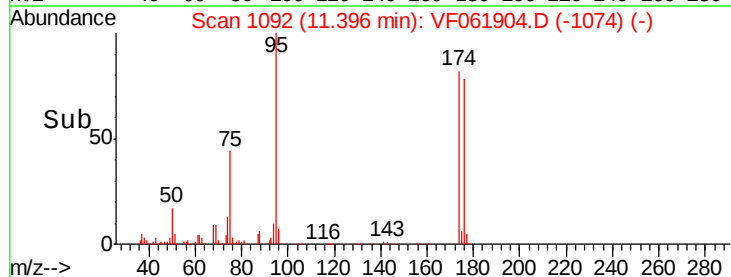
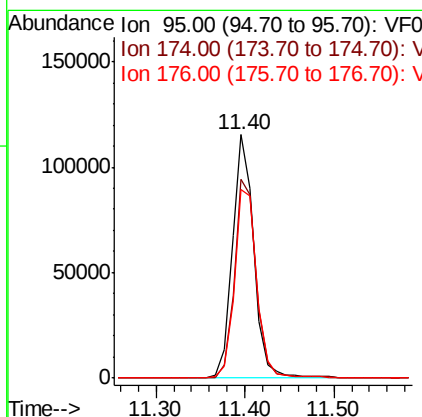
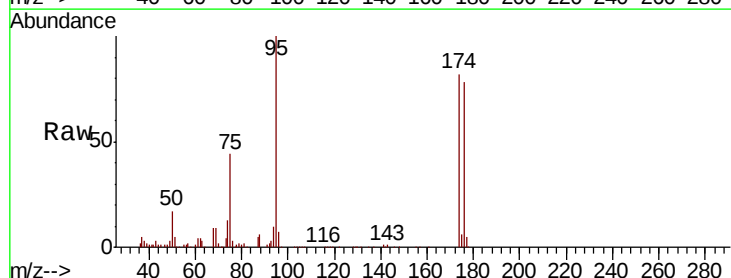
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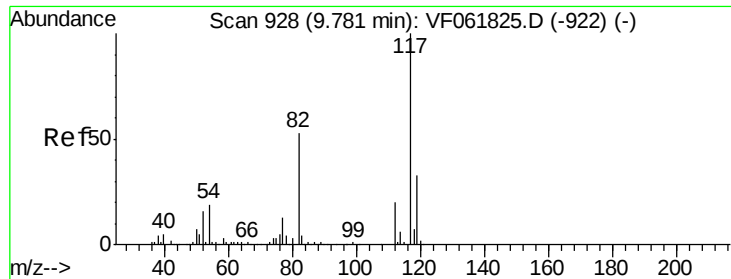
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 53.024 ug/l
 RT: 11.40 min Scan# 1092
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	81.5	0.0	174.0
176	77.7	0.0	175.2





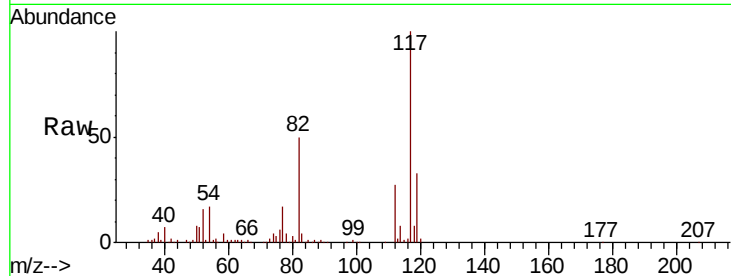
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	400123		
82	50.1	42.6	63.8	
119	32.7	26.0	39.0	

Manual Integrations
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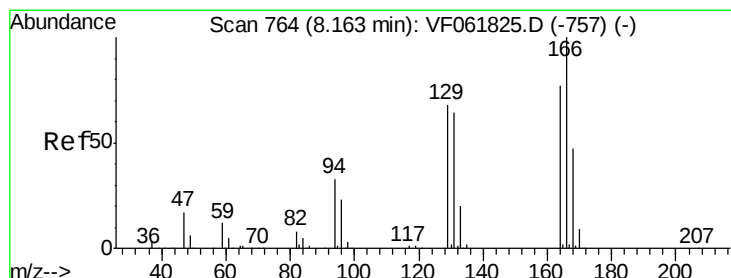
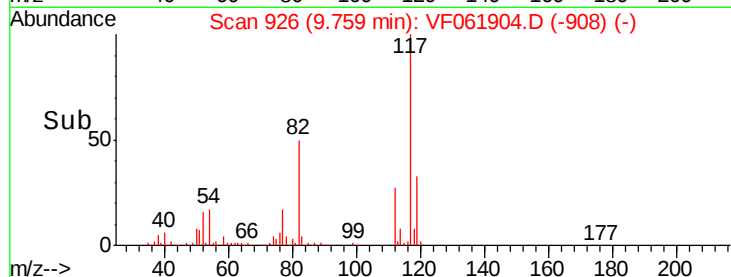
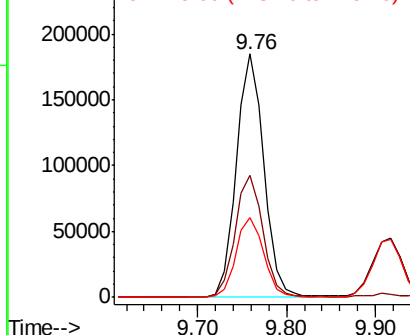


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 47.373 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	145649		
166	129.3	103.4	155.0	
129	89.9	69.9	104.9	
131	89.2	66.4	99.6	

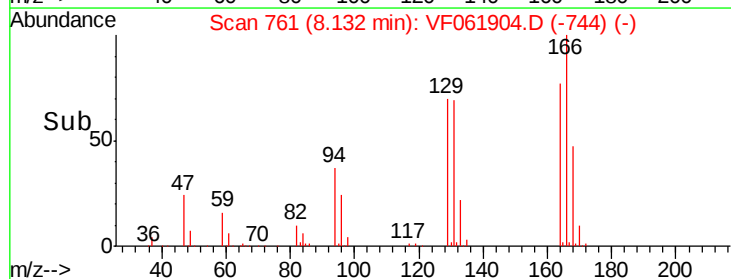
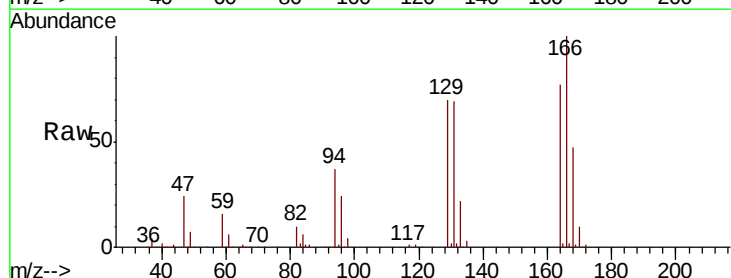
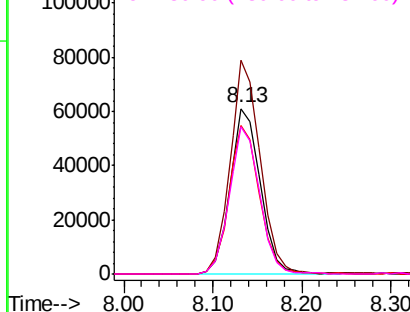
Abundance

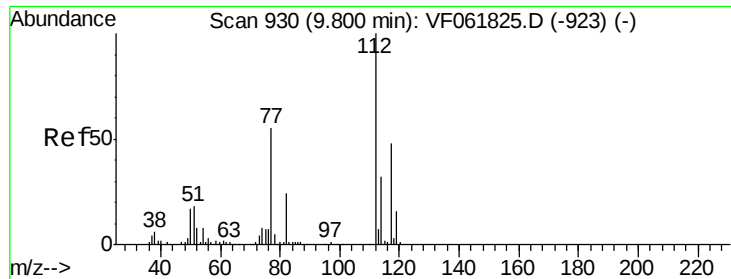
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





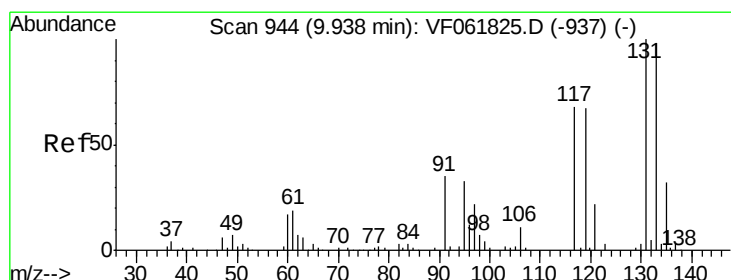
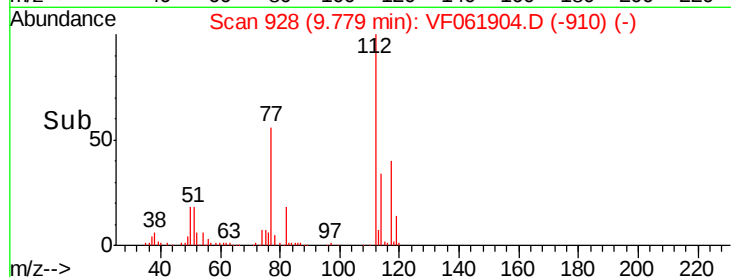
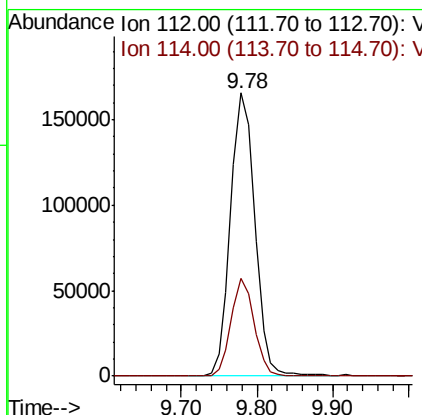
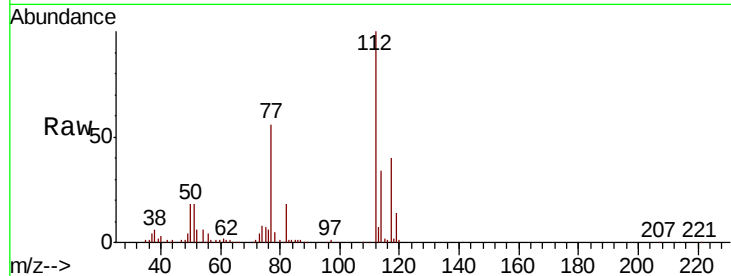
#65
Chlorobenzene
Concen: 48.119 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 369903
Ion Ratio Lower Upper
112 100
114 34.4 25.5 38.3

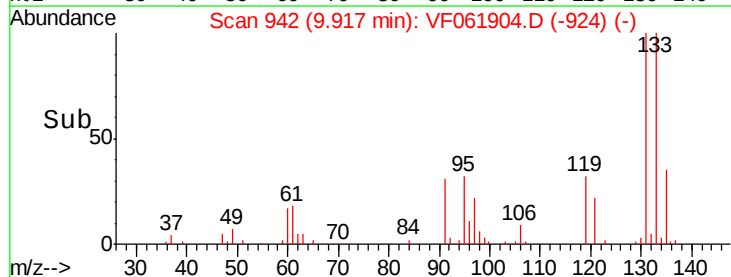
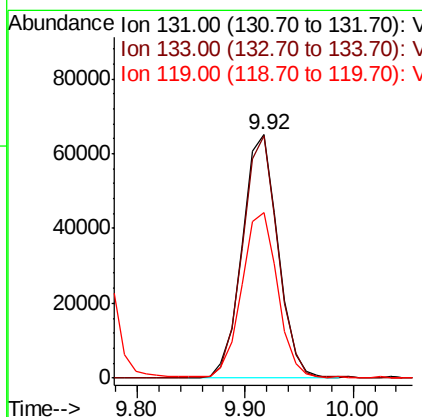
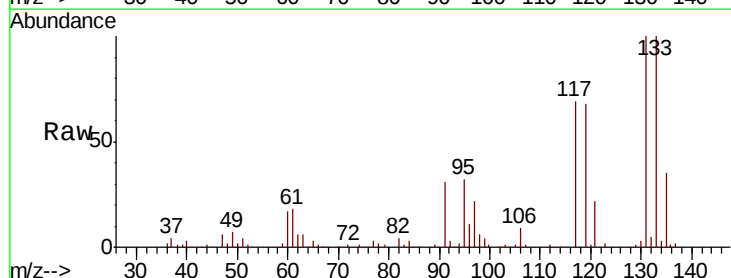
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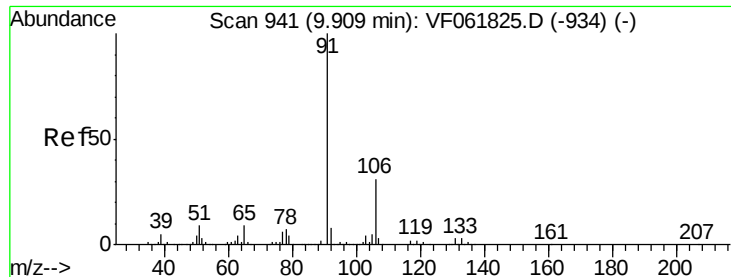
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.276 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion:131 Resp: 149740
Ion Ratio Lower Upper
131 100
133 99.6 48.9 146.7
119 67.9 33.6 100.8





#67

Ethyl Benzene

Concen: 49.792 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 634411

Ion Ratio Lower Upper

91 100

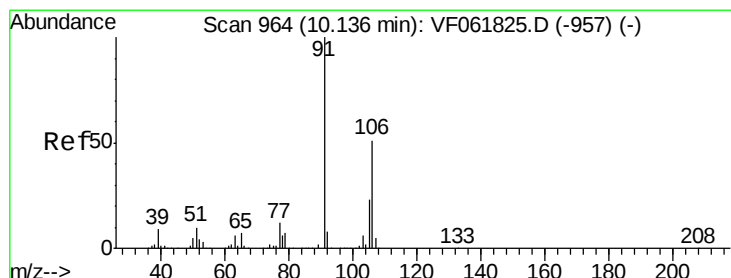
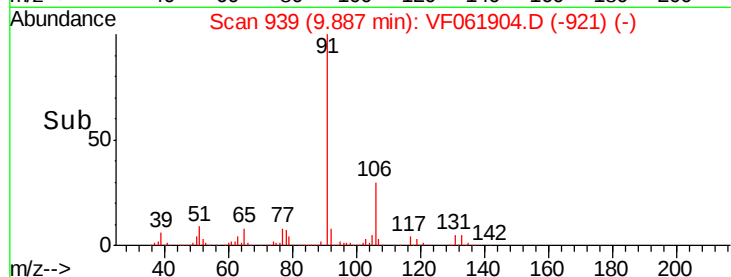
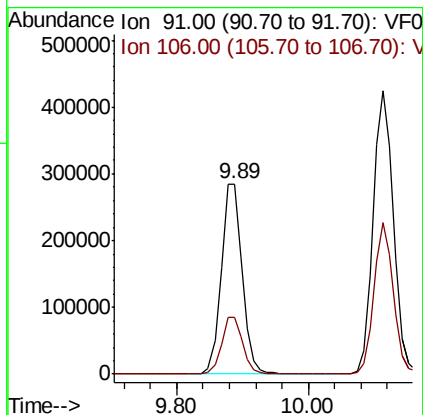
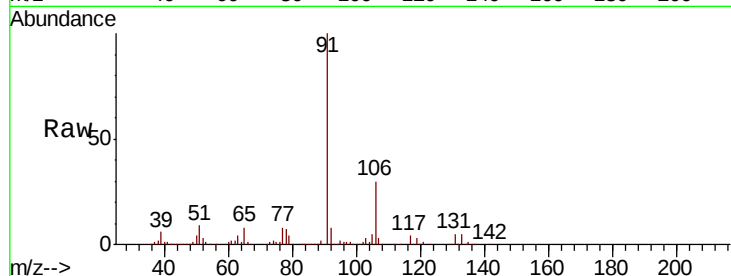
106 29.7 25.0 37.4

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#68

m/p-Xylenes

Concen: 96.396 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF061904.D

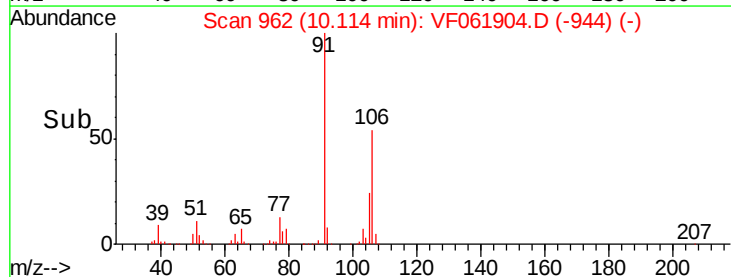
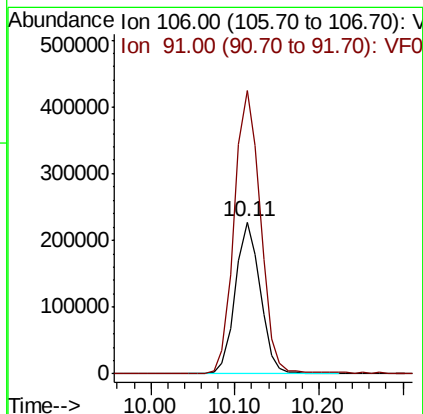
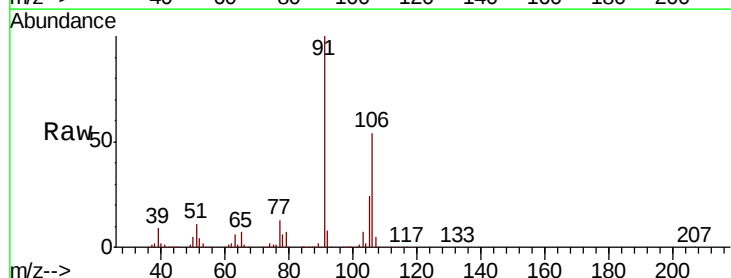
Acq: 12 Mar 2019 13:47

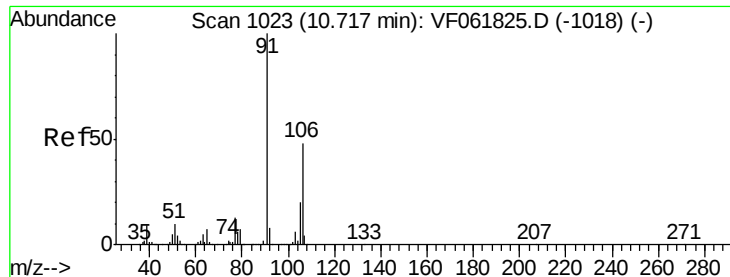
Tgt Ion: 106 Resp: 470509

Ion Ratio Lower Upper

106 100

91 186.6 157.5 236.3





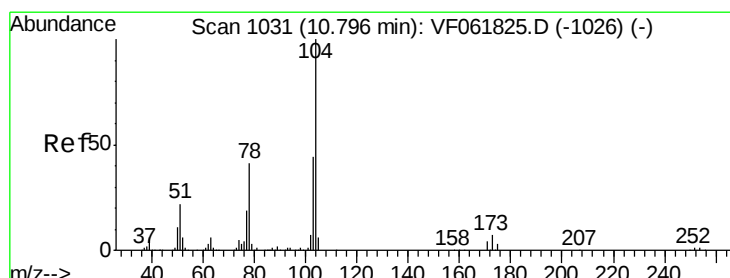
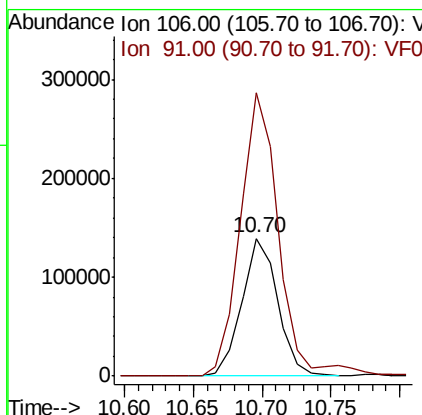
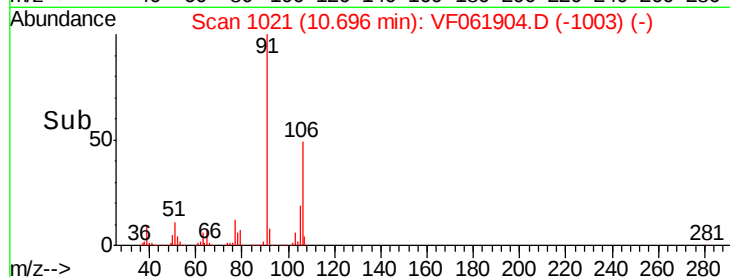
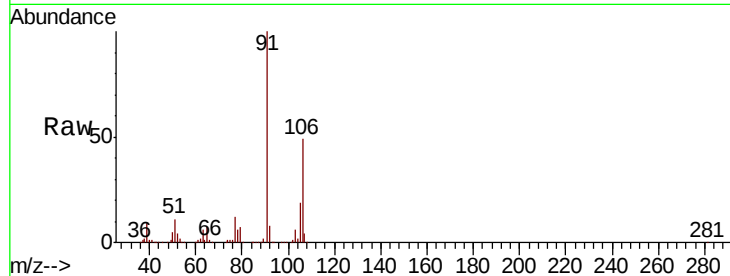
#69
o-Xylene
Concen: 48.471 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 254760
Ion Ratio Lower Upper
106 100
91 205.4 103.5 310.3

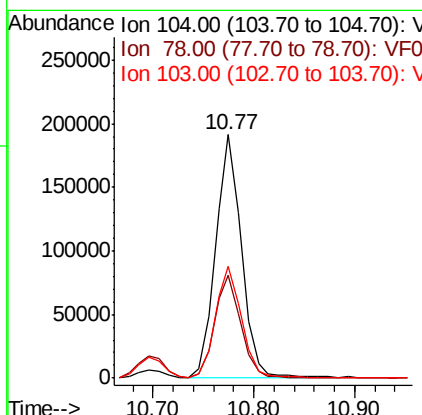
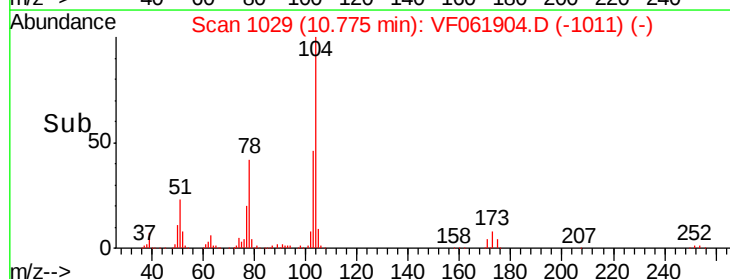
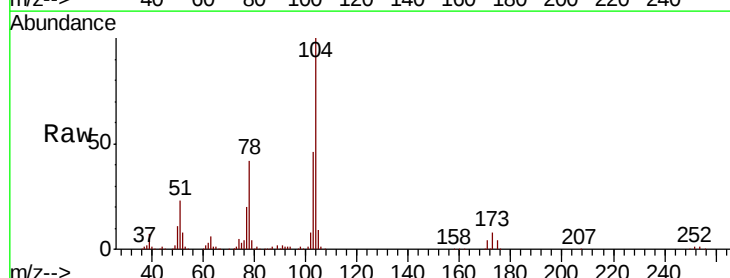
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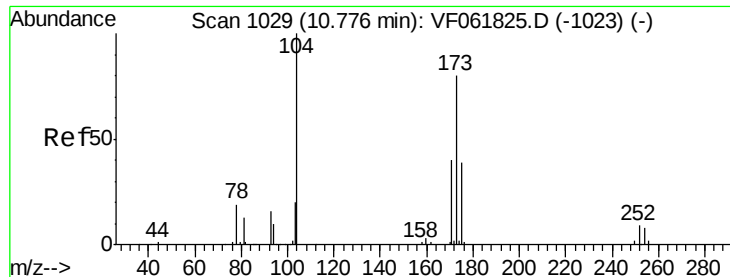
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#70
Styrene
Concen: 45.855 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion:104 Resp: 339179
Ion Ratio Lower Upper
104 100
78 42.5 33.3 49.9
103 46.1 35.4 53.0





#71

Bromoform

Concen: 46.986 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 73962

Ion Ratio Lower Upper

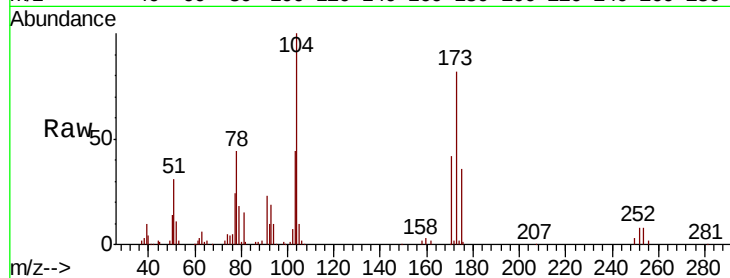
173 100

175 44.2 24.5 73.5

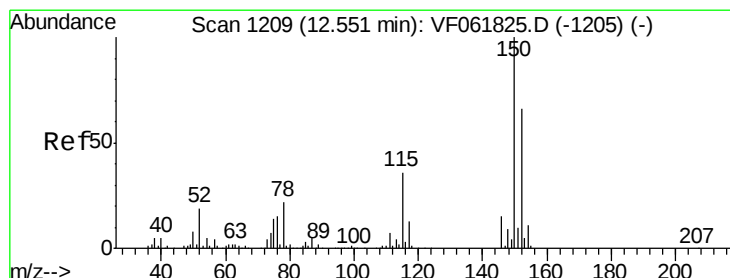
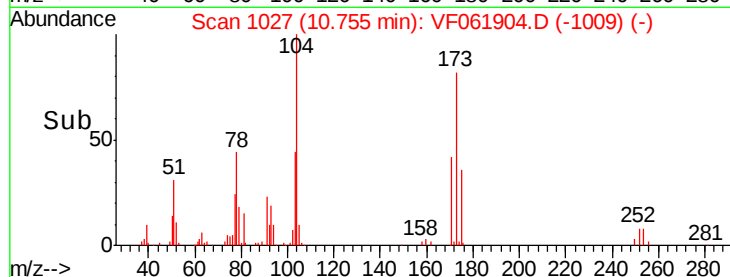
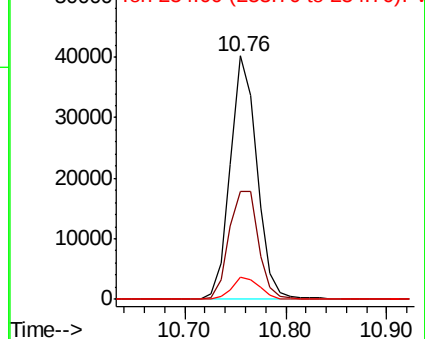
254 9.2 8.0 12.0

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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: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

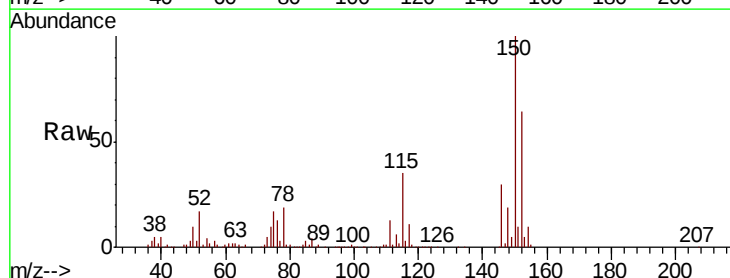
Tgt Ion:152 Resp: 212939

Ion Ratio Lower Upper

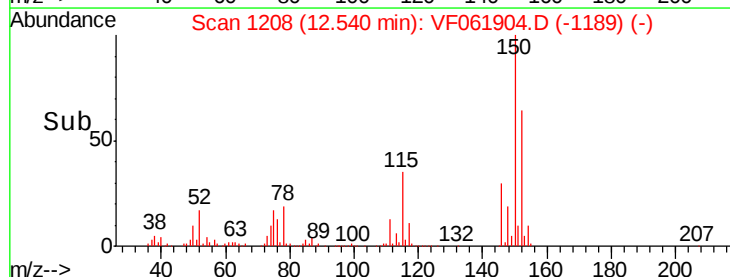
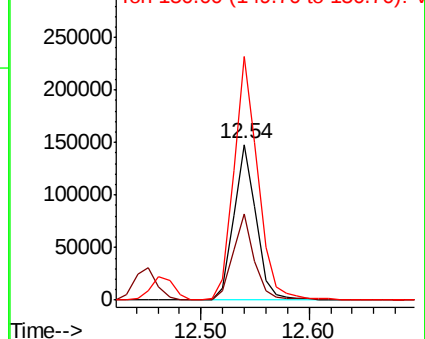
152 100

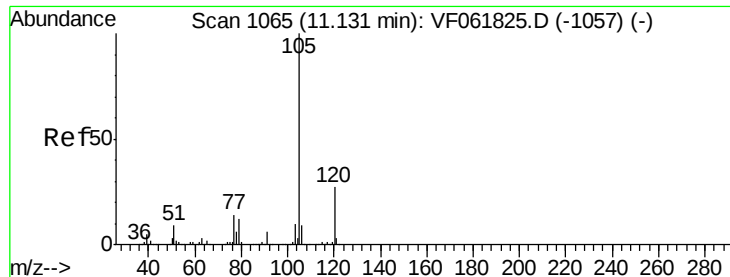
115 55.3 27.7 83.1

150 156.5 0.0 304.2



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: 50.174 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 735535

Ion Ratio Lower Upper

105 100

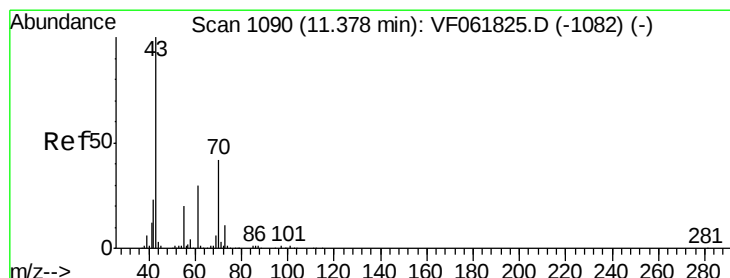
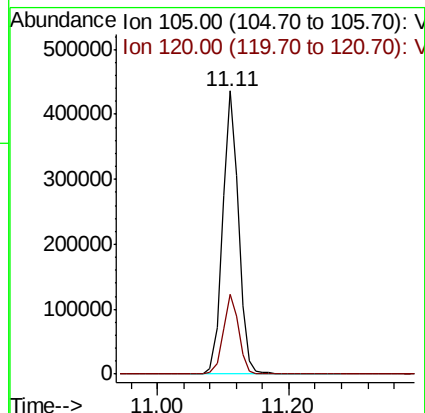
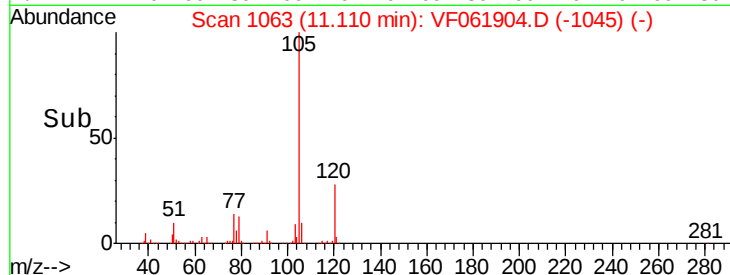
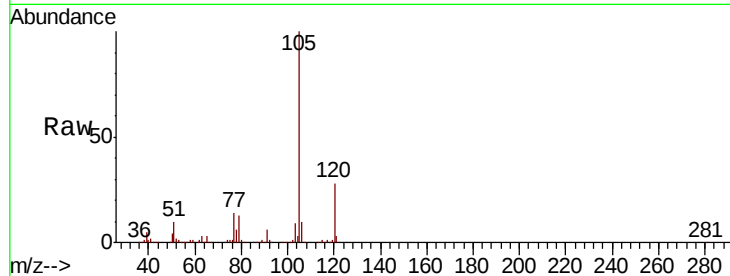
120 28.2 13.7 41.0

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#74

N-ethyl acetate

Concen: 48.670 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion: 43 Resp: 164254

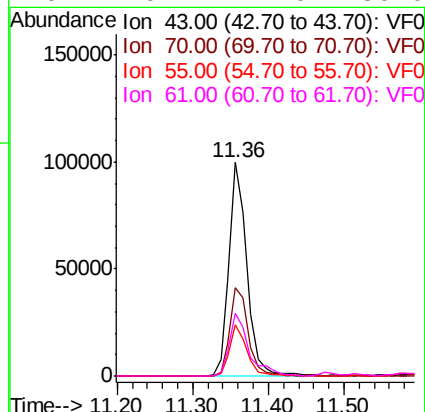
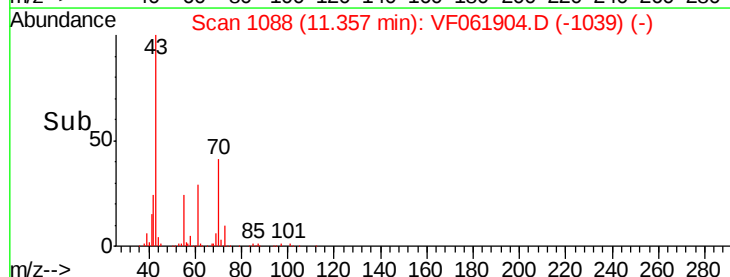
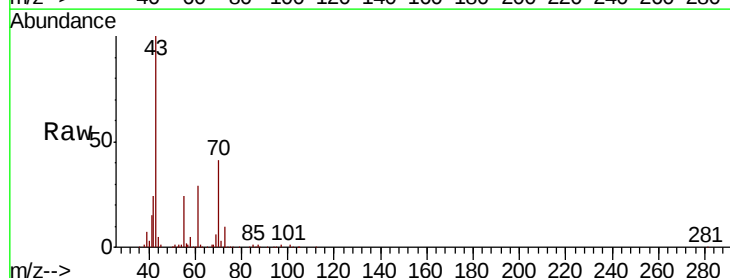
Ion Ratio Lower Upper

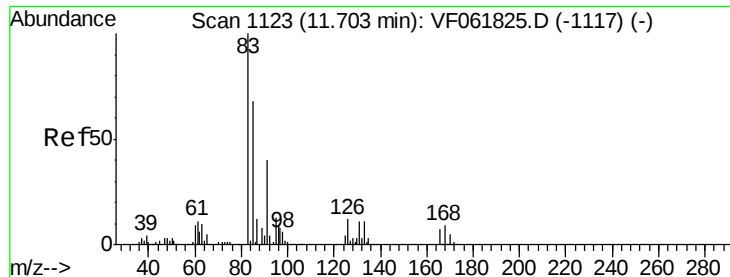
43 100

70 41.2 33.4 50.0

55 24.0 16.3 24.5

61 29.1 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 48.283 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 117640
Ion Ratio Lower Upper

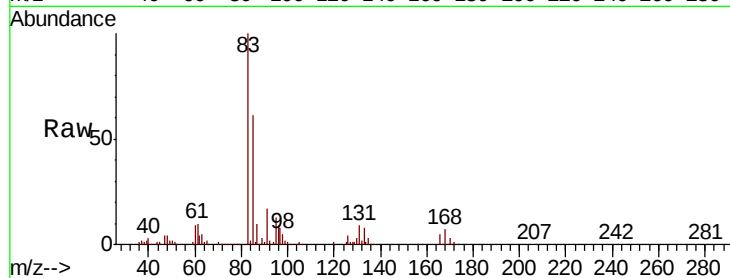
83 100

131 9.2 5.5 16.7

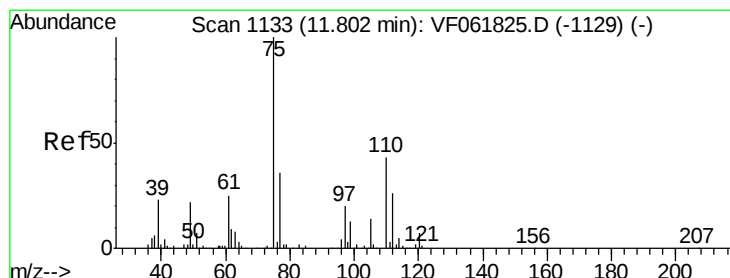
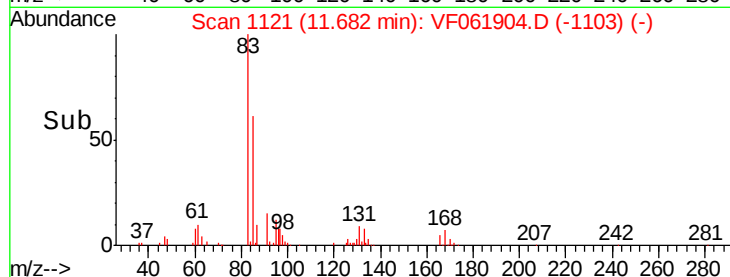
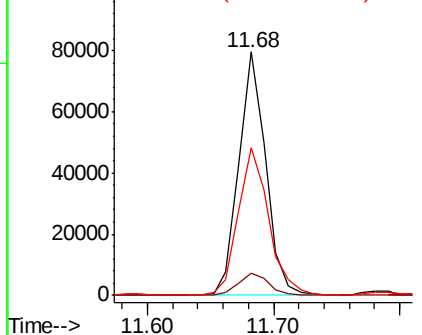
85 60.5 34.2 102.6

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 47.485 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.02 min

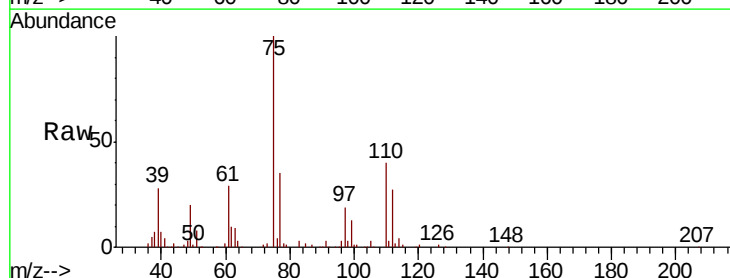
Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

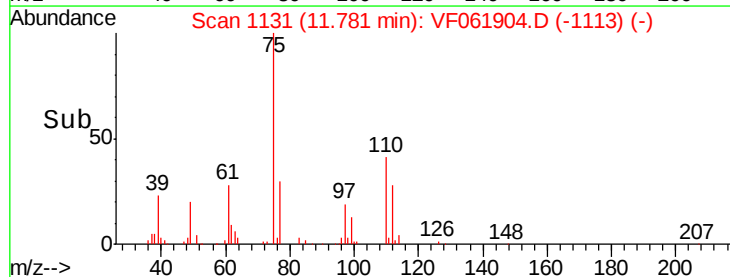
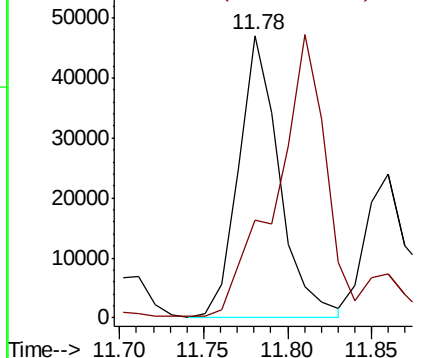
Tgt Ion: 75 Resp: 78963
Ion Ratio Lower Upper

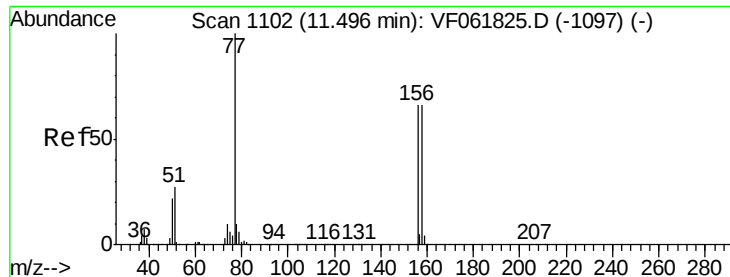
75 100

77 34.5 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 46.951 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

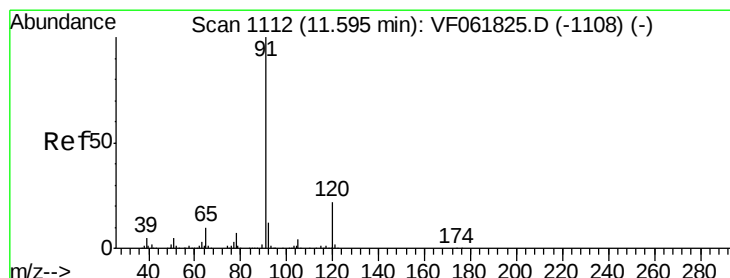
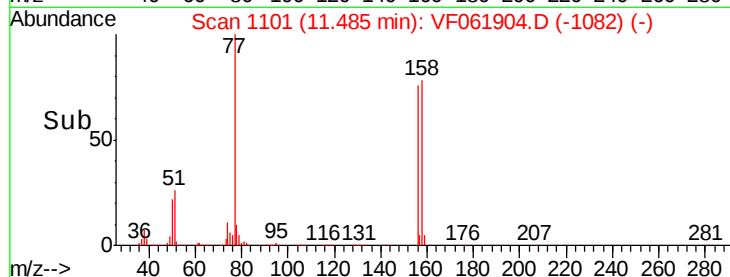
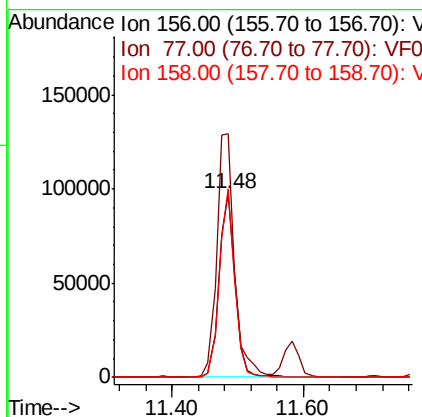
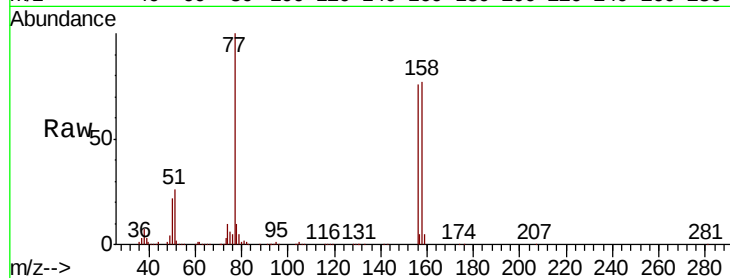
ClientSampleId :

VSTDCCC050

Tgt Ion:	156	Resp:	165646
Ion Ratio	Lower	Upper	
156	100		
77	132.4	75.7	227.1
158	102.6	50.0	150.1

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#78

n-propylbenzene

Concen: 48.050 ug/l

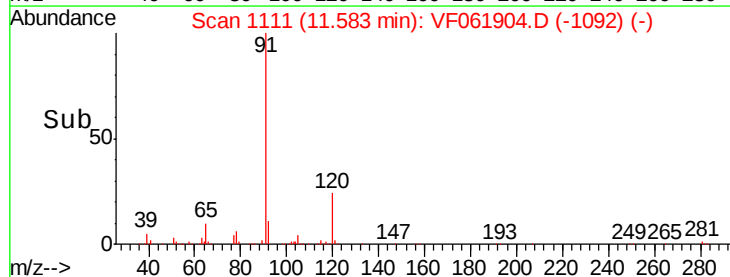
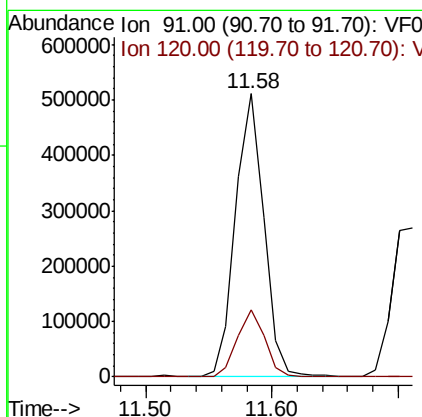
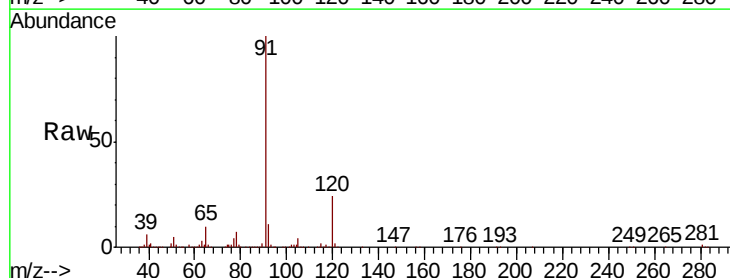
RT: 11.58 min Scan# 1111

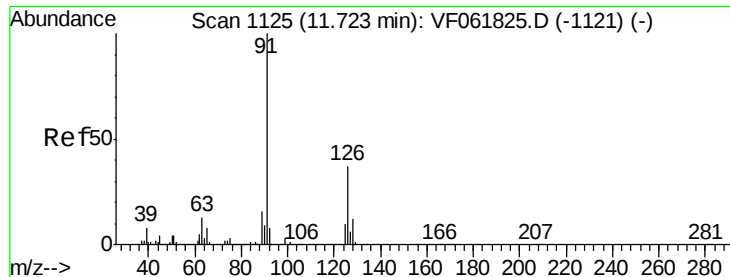
Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Tgt Ion:	91	Resp:	795468
Ion Ratio	Lower	Upper	
91	100		
120	23.6	11.1	33.1





#79

2-Chlorotoluene

Concen: 48.695 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061904.D

Acq: 12 Mar 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 460886

Ion Ratio Lower Upper

91 100

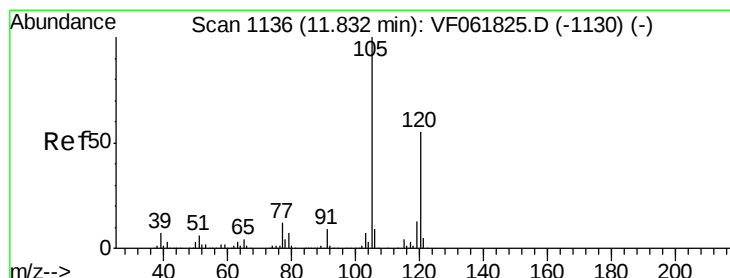
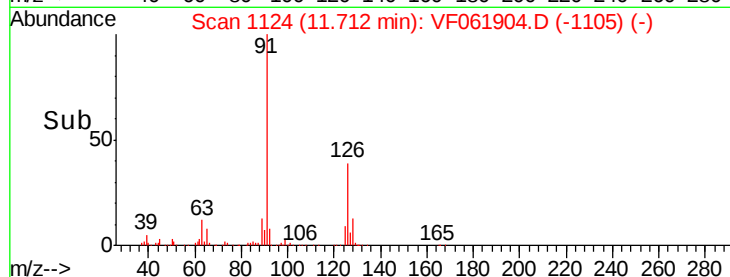
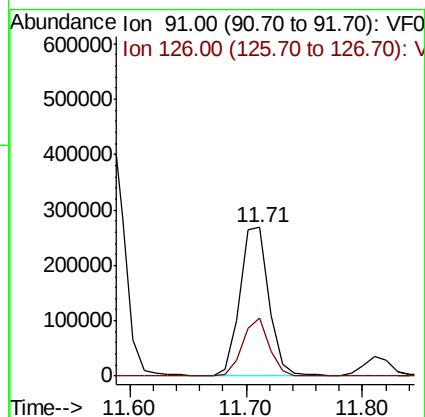
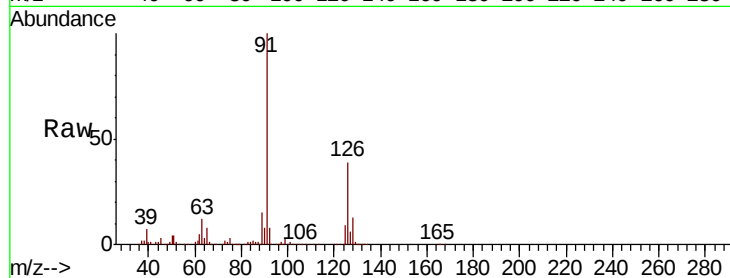
126 39.2 18.1 54.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 47.598 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061904.D

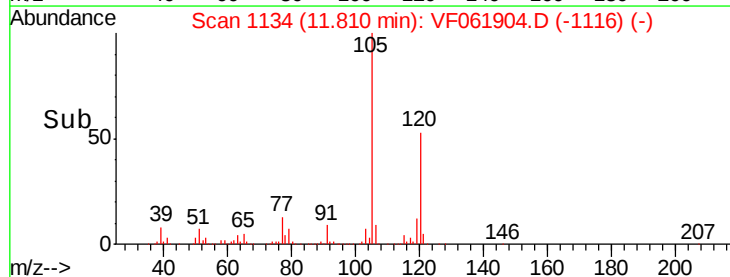
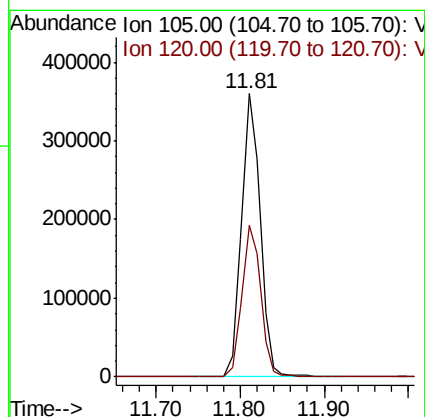
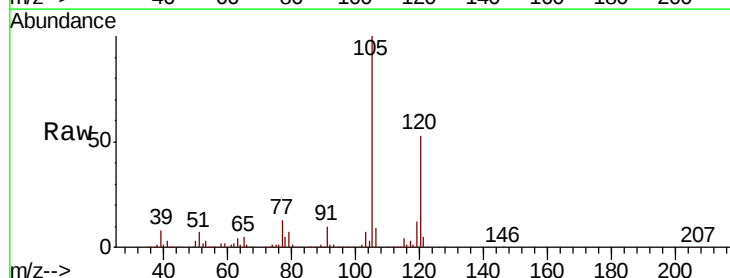
Acq: 12 Mar 2019 13:47

Tgt Ion: 105 Resp: 560220

Ion Ratio Lower Upper

105 100

120 53.5 27.4 82.2





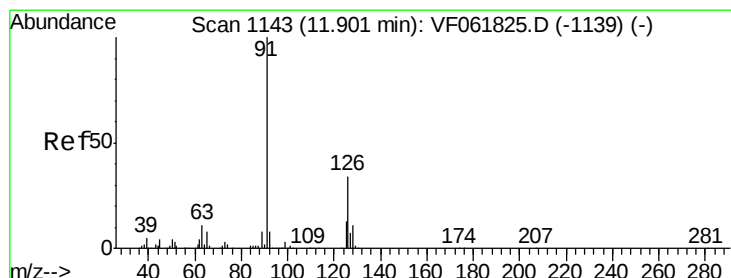
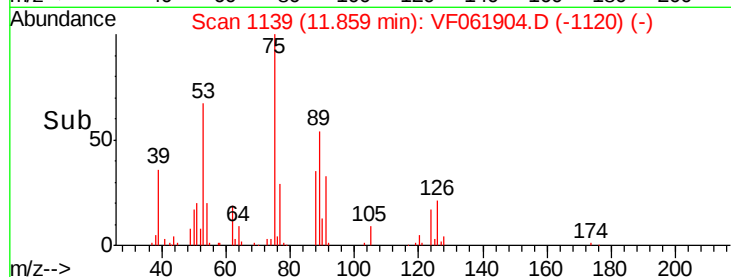
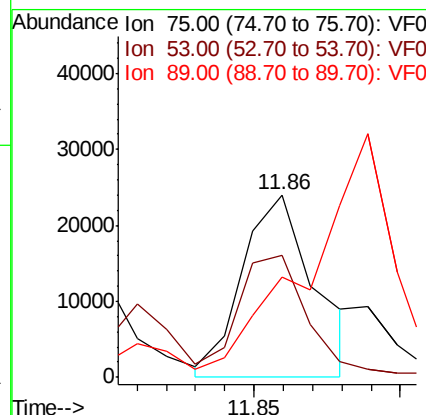
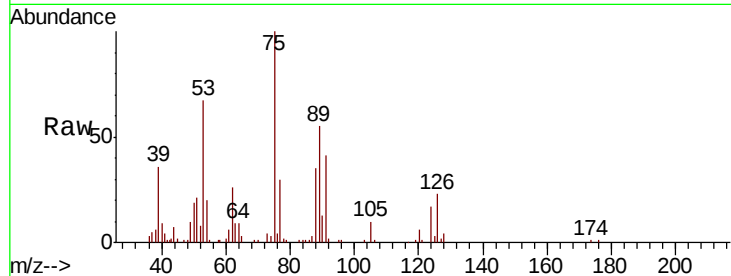
#81
trans-1,4-Dichloro-2-butene
Concen: 54.138 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	66.8	58.6	88.0
89	54.6	41.4	62.0

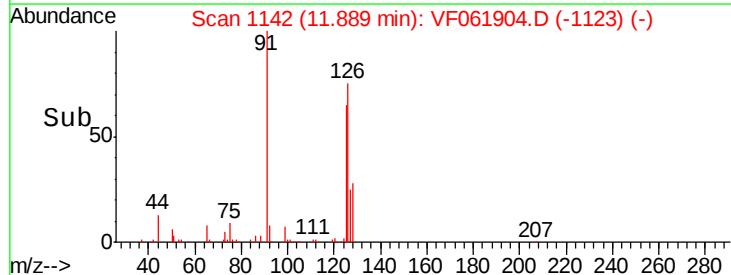
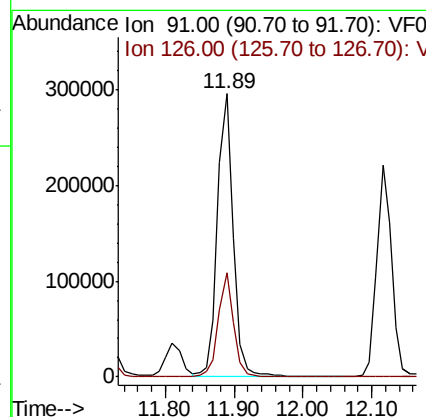
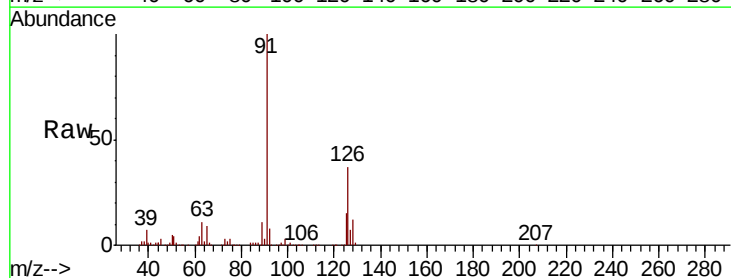
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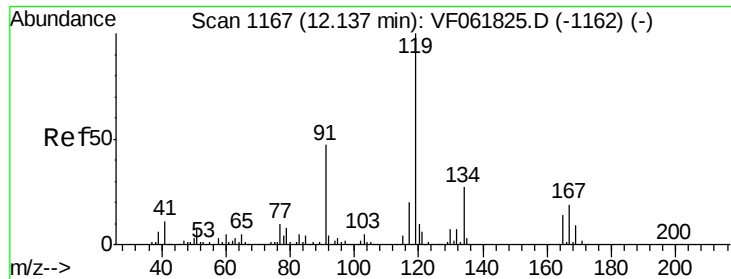
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#82
4-Chlorotoluene
Concen: 48.278 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.9	17.0	50.9





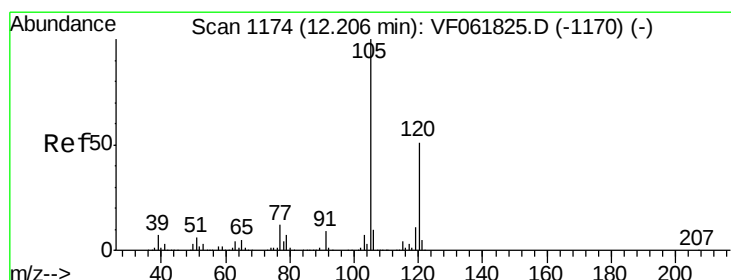
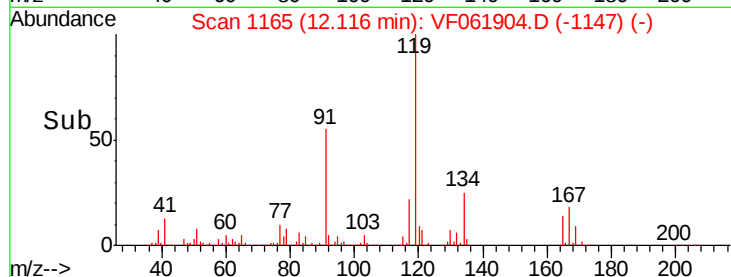
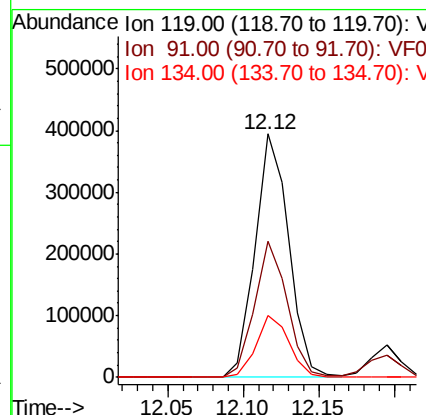
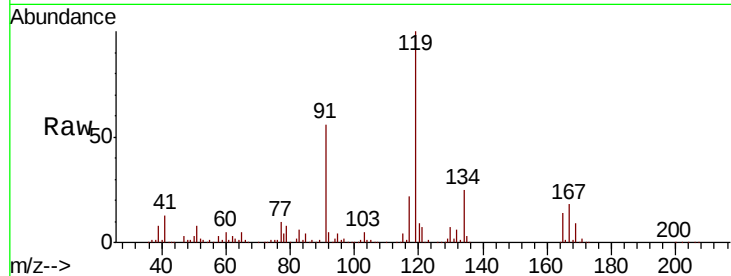
#83
 tert-Butylbenzene
 Concen: 49.192 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	614796		
91	55.9	23.5	70.5	
134	25.5	13.3	39.8	

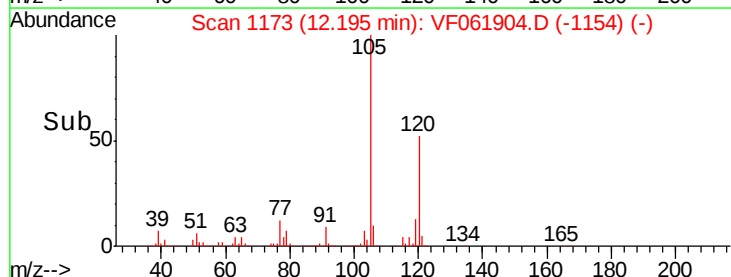
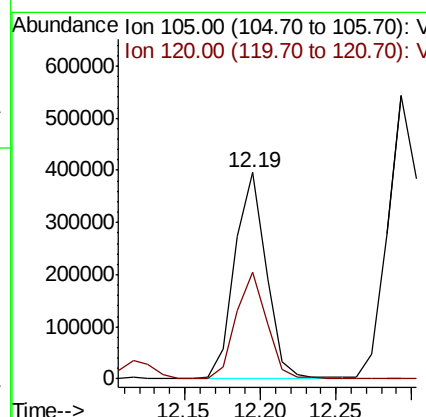
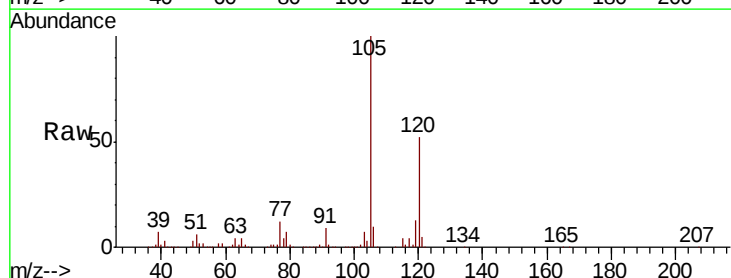
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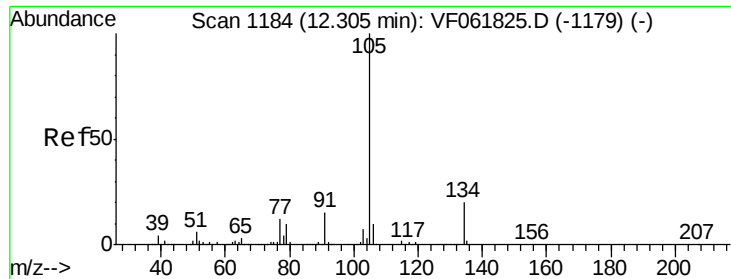
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.562 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.01 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	571851		
120	51.9	25.8	77.4	





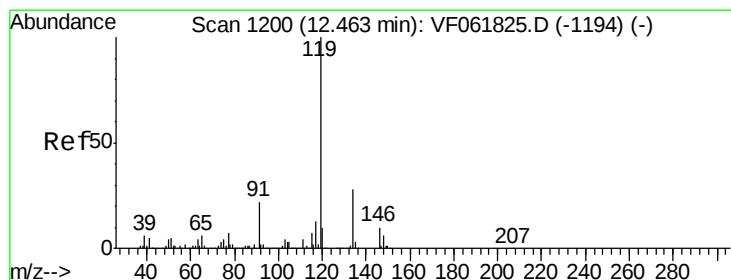
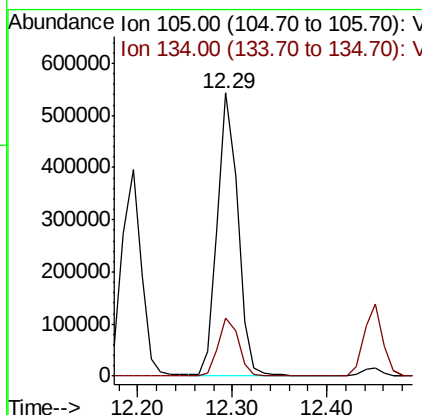
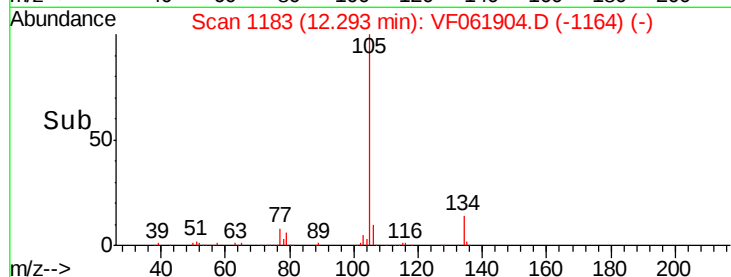
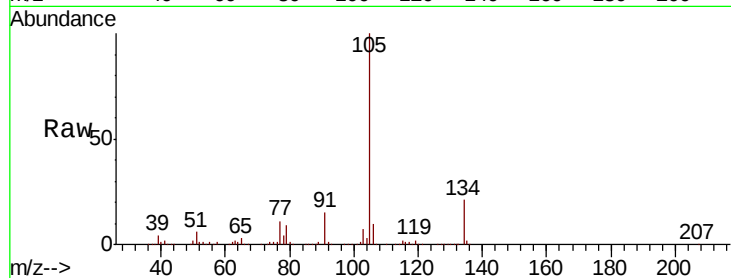
#85
 sec-Butylbenzene
 Concen: 50.207 ug/l
 RT: 12.29 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.6	9.8	29.5

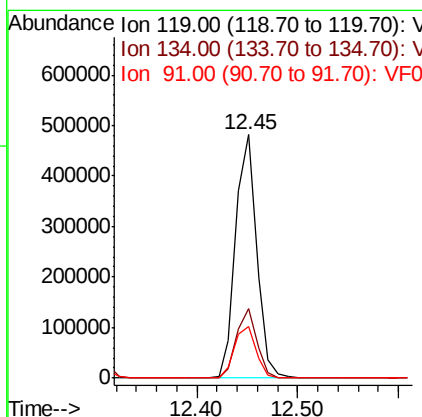
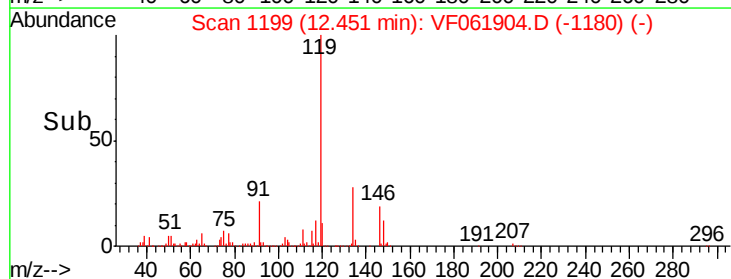
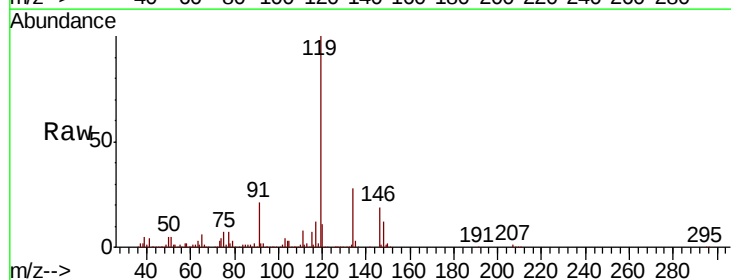
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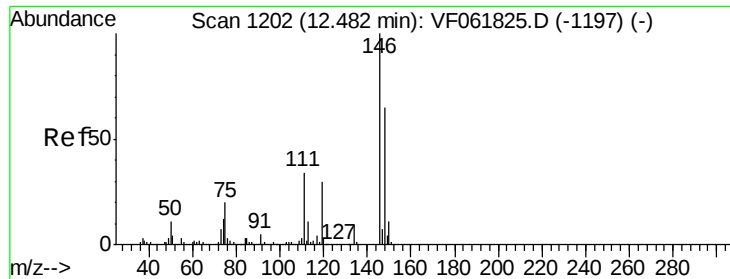
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#86
 p-Isopropyltoluene
 Concen: 50.525 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.5	14.0	42.0
91	21.1	11.1	33.3





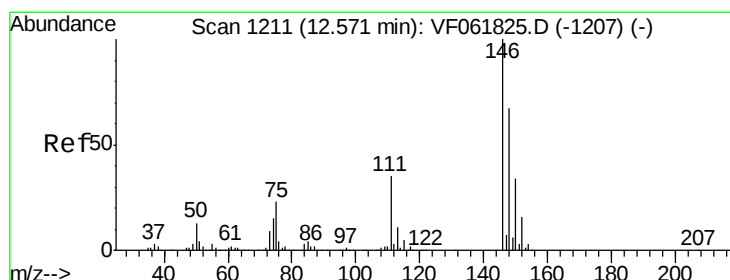
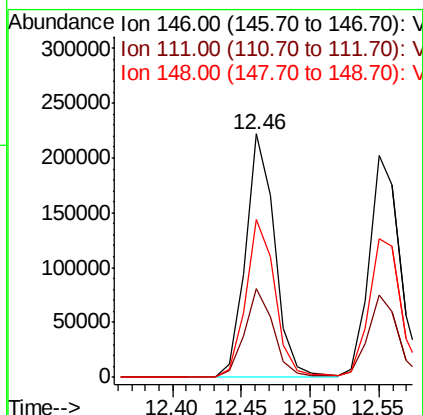
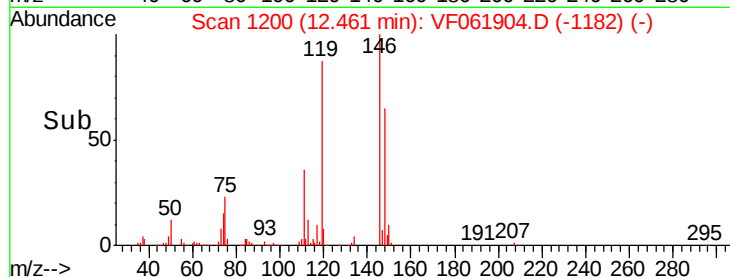
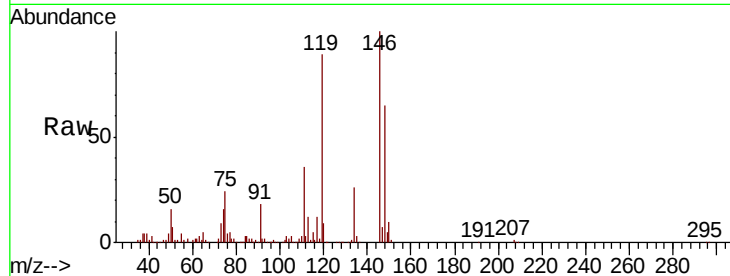
#87
 1,3-Dichlorobenzene
 Concen: 49.316 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	17.0	51.0
148	64.6	32.5	97.5

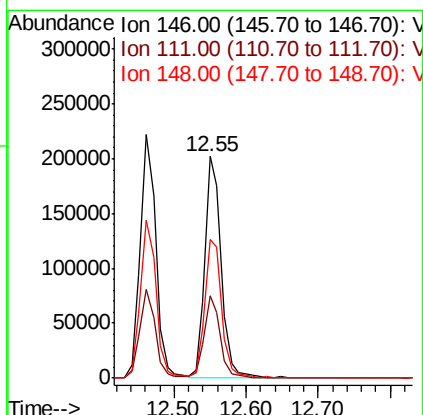
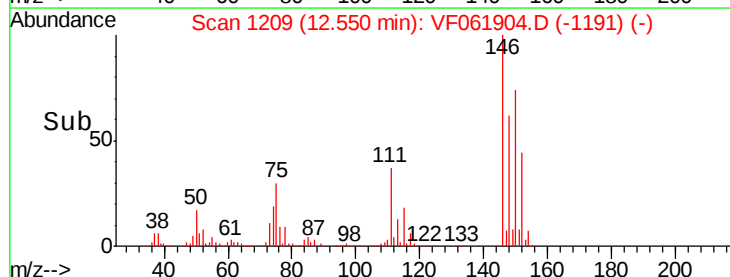
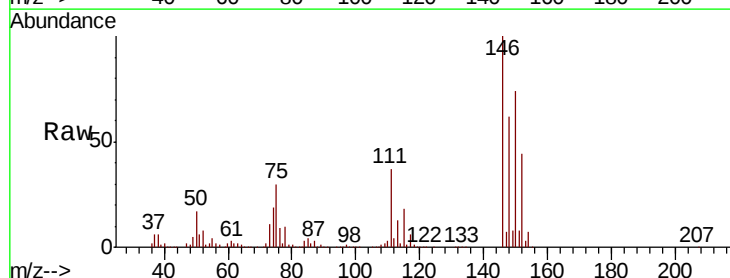
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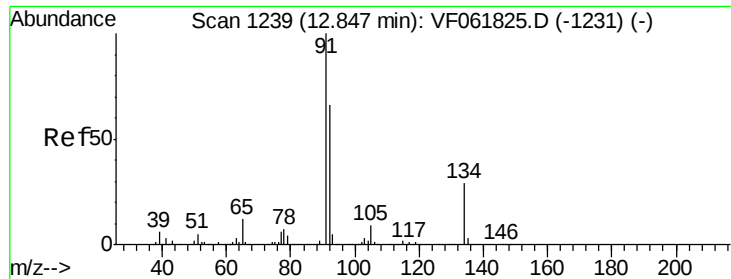
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#88
 1,4-Dichlorobenzene
 Concen: 49.173 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	17.6	52.9
148	62.5	33.5	100.4





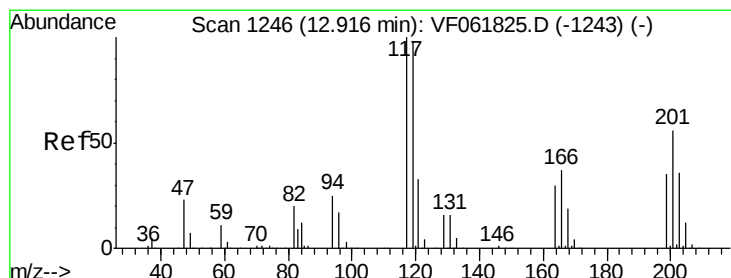
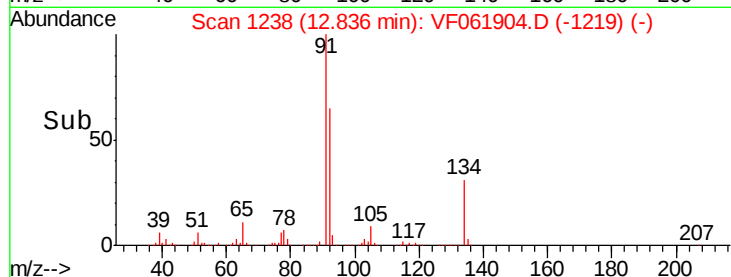
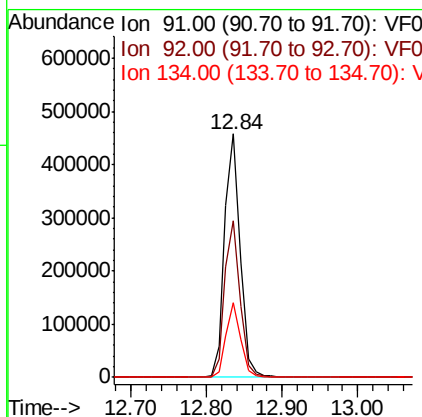
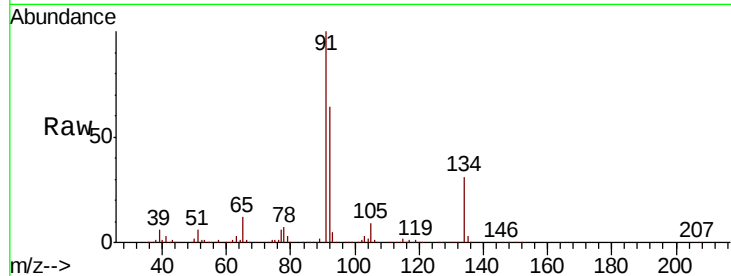
#89
n-Butylbenzene
Concen: 49.874 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
91	100		
92	64.4	32.9	98.6
134	30.6	14.5	43.6

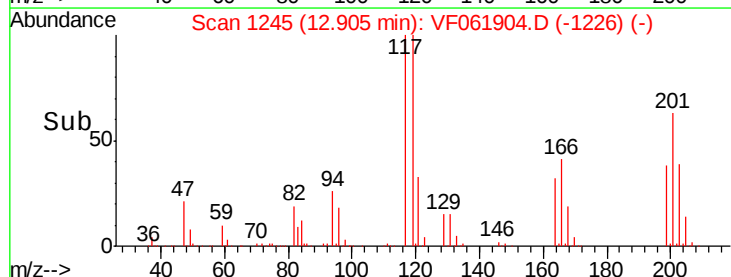
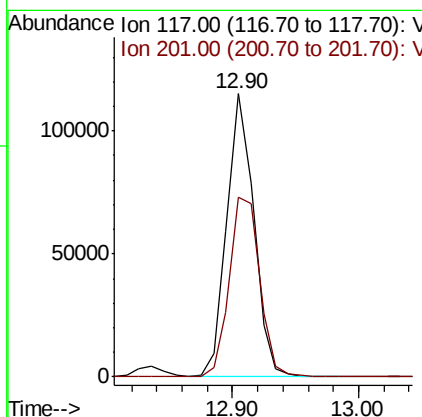
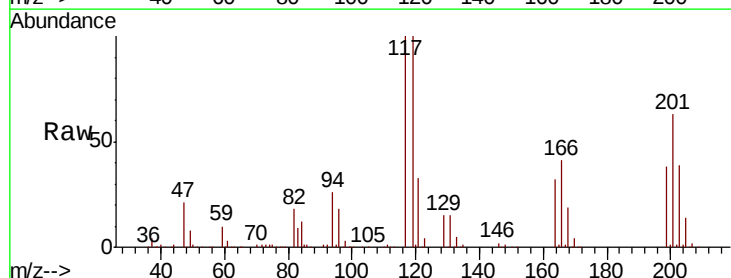
Manual Integrations
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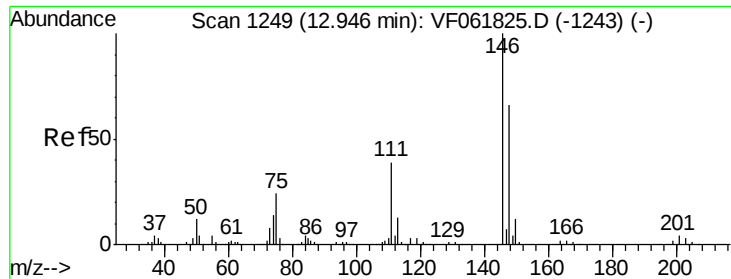
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#90
Hexachloroethane
Concen: 51.341 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.5	27.8	83.4





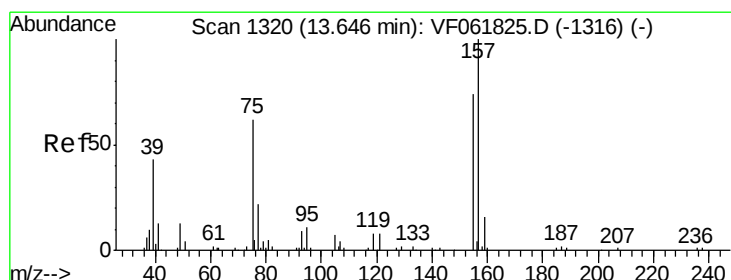
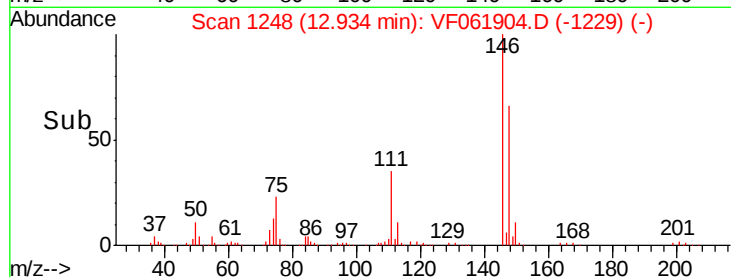
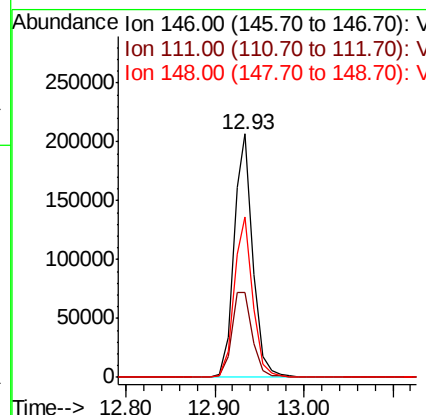
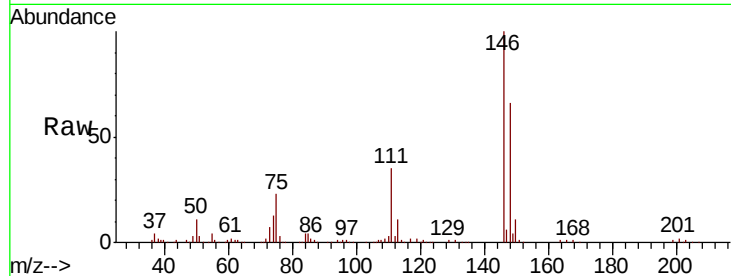
#91
 1,2-Dichlorobenzene
 Concen: 48.791 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	309681		
111	35.1	19.4	58.4	
148	65.7	33.0	98.9	

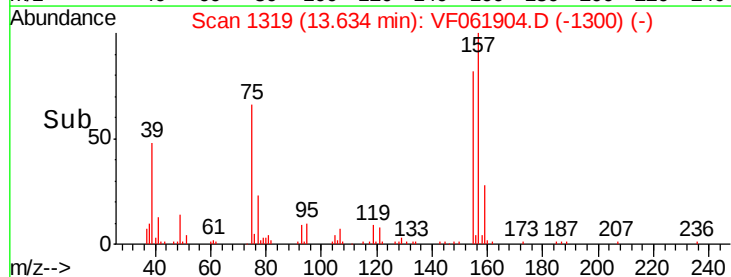
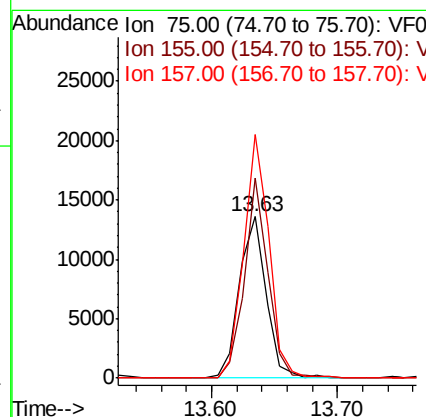
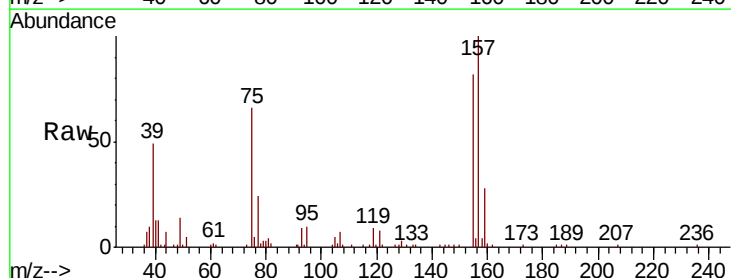
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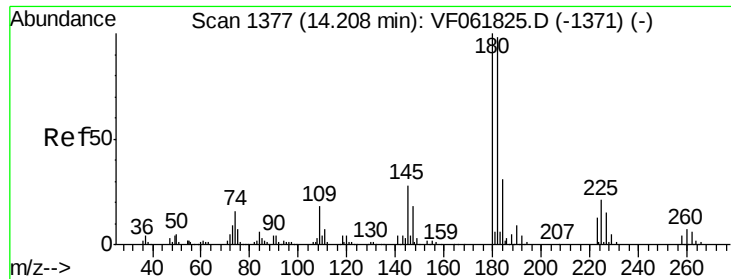
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.138 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	19845		
155	123.6	59.8	179.4	
157	150.7	81.2	243.4	





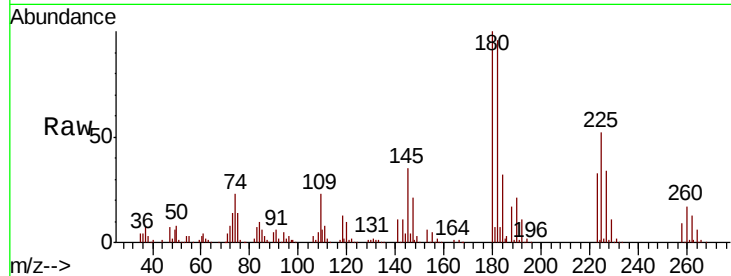
#93
 1,2,4-Trichlorobenzene
 Concen: 48.718 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	216784		
182	96.0	49.0	147.2	
145	35.2	14.1	42.4	

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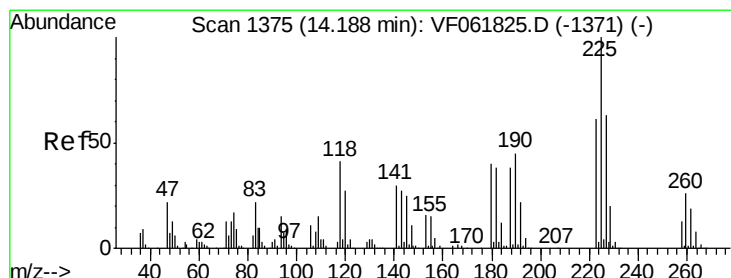
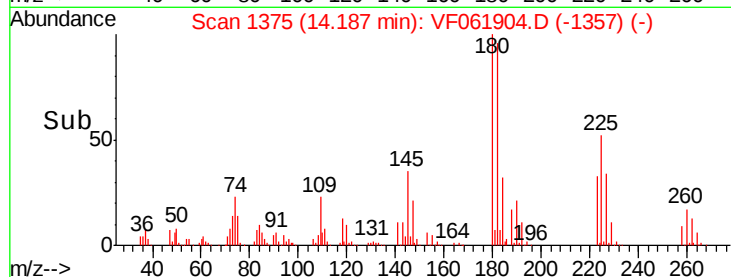
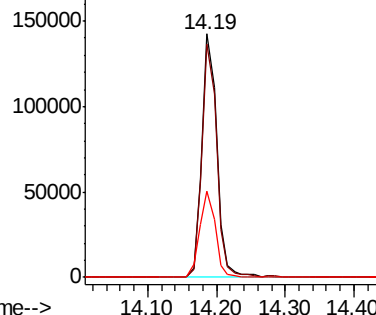


Abundance

Ion 180.00 (179.70 to 180.70): V

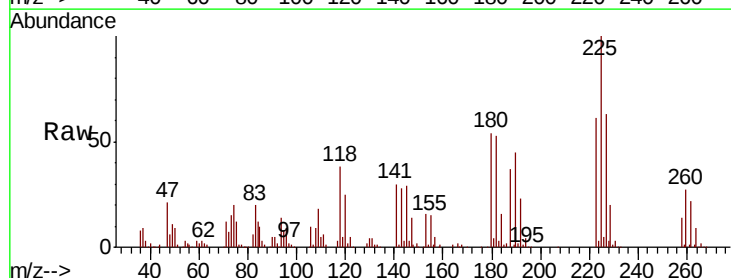
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 46.235 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061904.D
 Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	142426		
223	61.4	30.3	90.9	
227	63.1	31.3	93.8	

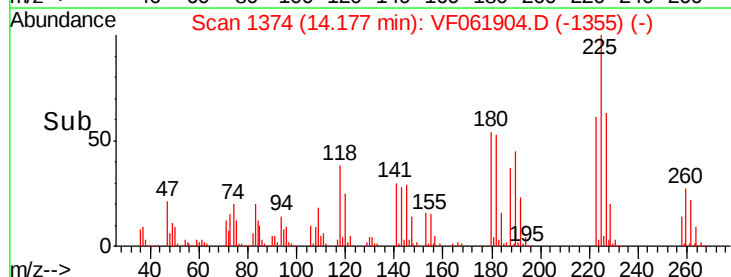
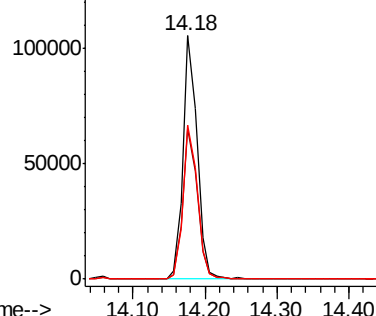


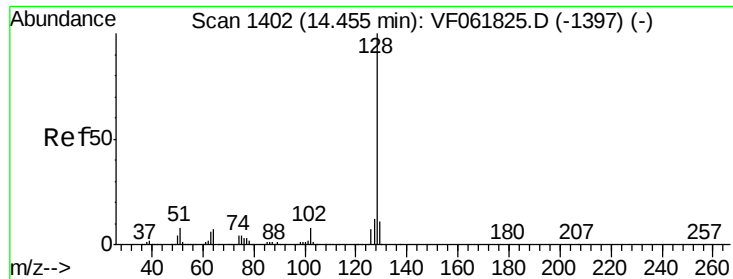
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





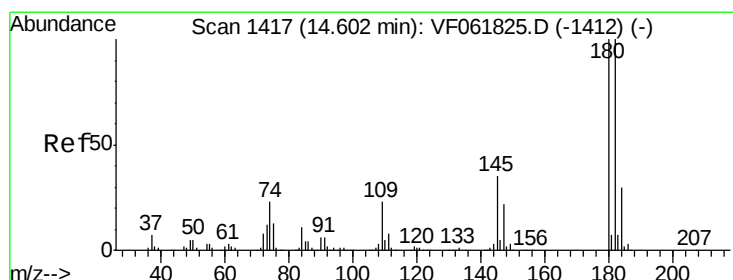
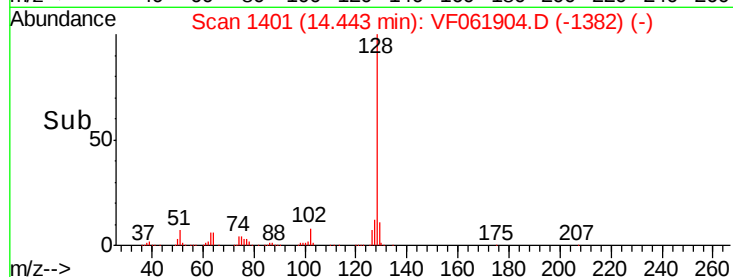
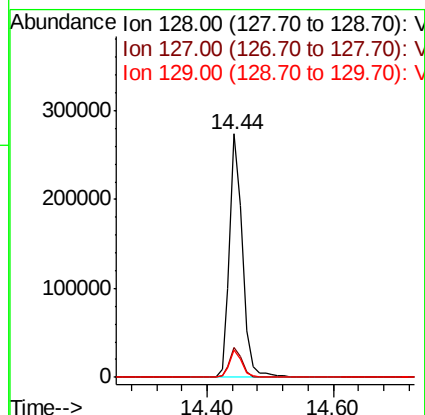
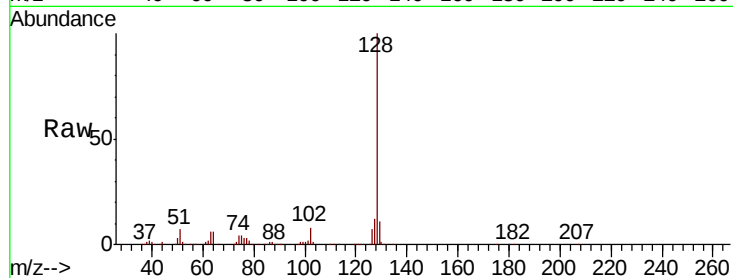
#95
Naphthalene
Concen: 49.628 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	393318		
127	12.3	9.3	13.9	
129	11.0	8.8	13.2	

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#96
1,2,3-Trichlorobenzene
Concen: 50.239 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF061904.D
Acq: 12 Mar 2019 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	206406		
182	92.4	50.2	150.7	
145	31.9	17.5	52.5	

